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EL 2936 / EL 3835

NEALES RIVER

ANNUAL AND FINAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 26/4/2002 TO 11/7/2010

Submitted by
ReLODE Ltd, Integra Mining Ltd and Barrick Gold of Australia Ltd
2010

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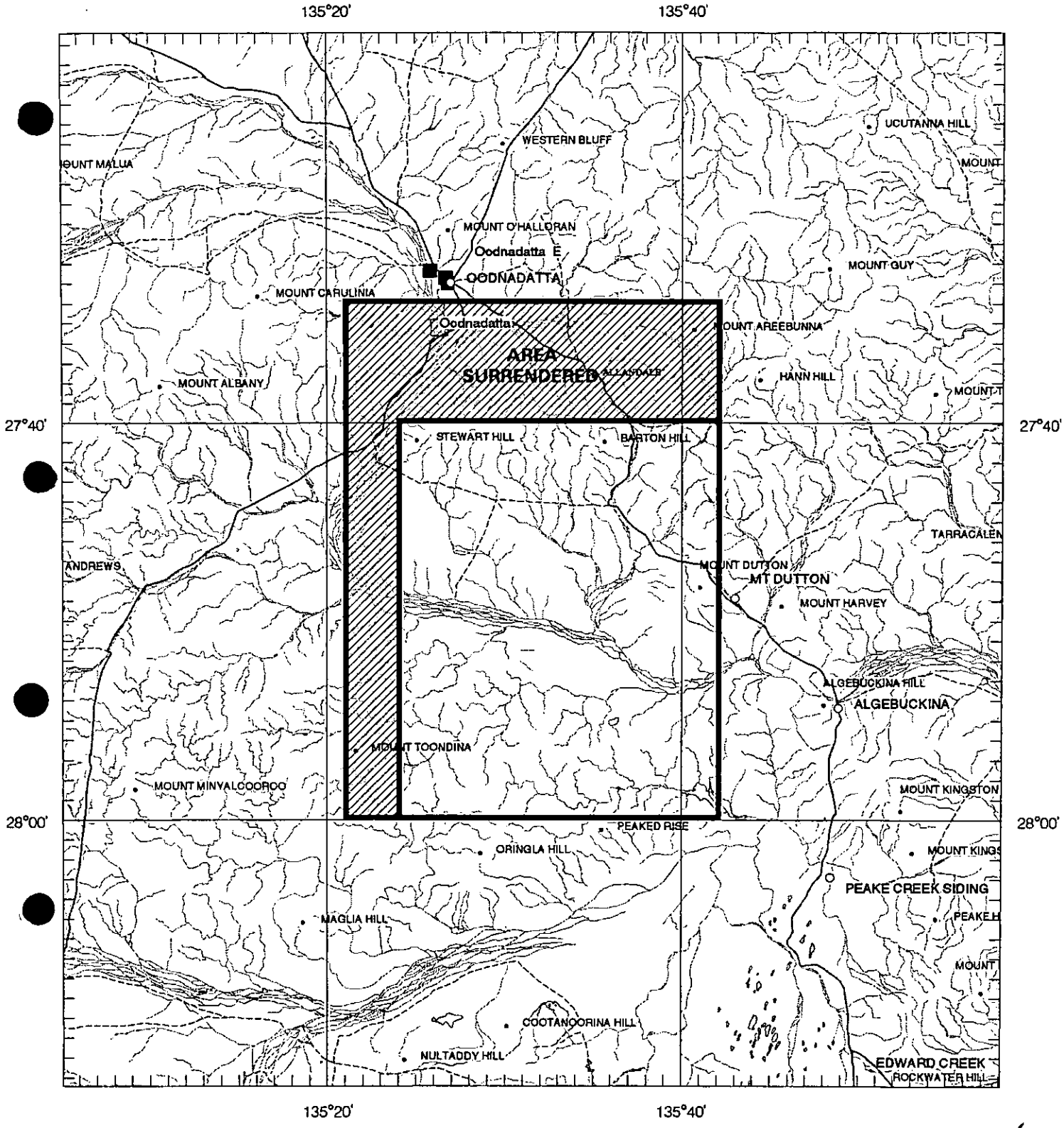
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Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **INTEGRA MINING LTD**

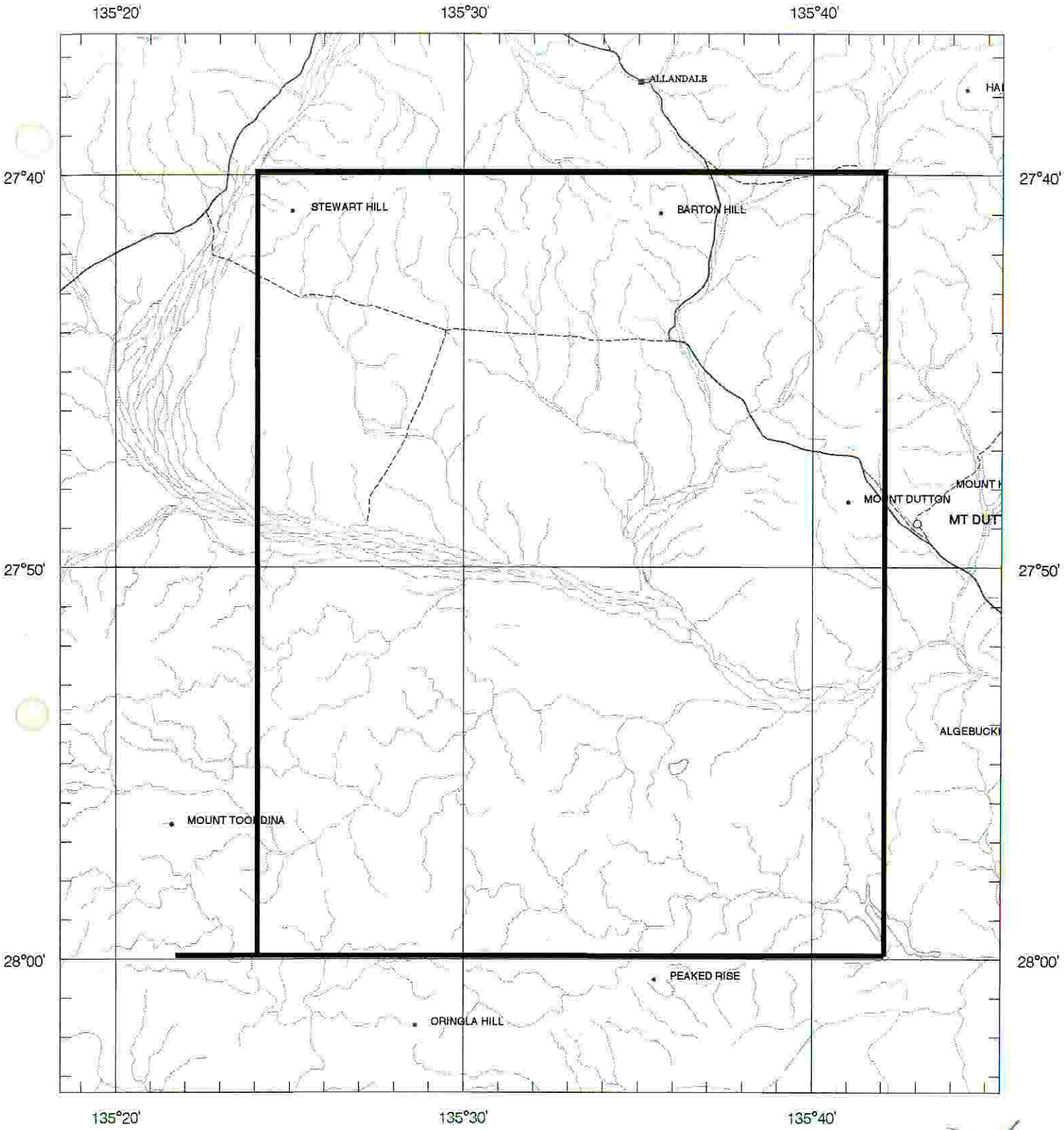
FILE REF : **158/01** TYPE : **MINERAL ONLY** AREA : **1091** km² (approx.)

1:250000 MAPSHEETS : **OODNADATTA**

LOCALITY : **NEALES RIVER AREA - Immediately south of Oodnadatta**

DATE GRANTED : **26-Apr-2002** DATE EXPIRED : **25-Apr-2005** 2006 2007 EL NO : **2936**

SCHEDULE A



SCALE 1: 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **INTEGRA MINING LTD**

FILE REF : **79/07** TYPE : **MINERAL ONLY** AREA : **1091** km² (approx.)

1:250000 MAPSHEETS : **OODNADATTA**

LOCALITY : **NEALES RIVER AREA - Immediately south of Oodnadatta**

DATE GRANTED : **12-Jul-2007** DATE EXPIRED : **11-Jul-2008** EL NO : **3835**

ReLODE Limited

ANNUAL TECHNICAL REPORT

Exploration Completed on Oodnadatta Project

For the Period 26th April, 2002 to 25th April, 2003

E.L. 2936

Tenement Holder – ReLODE Ltd

A.B.N. 54 093 278 436

Operator and Holding Company - ReLODE Ltd

A.B.N. 54 093 278 436

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Copy 2 **PIRSA Adelaide**

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1.0 SUMMARY OF EXPLORATION ACTIVITIES

This Annual Technical Report on exploration completed over the Oodnadatta Project, South Australia, is the first submitted by ReLODE Ltd. E.L.158/2936 was granted on the 26th April 2002 to ReLODE Ltd who have managed the tenement since its inception.

Exploration completed is summarised in the six monthly report for the period ending 25th October 2002 including 2 ground magnetic and gravity survey's followed be the drilling of 3 core holes at Toondina Dam and Ockenden. In addition a downhole 3-component magnetic survey was completed at Toondina Dam and selected core intervals were submitted for geochemical analysis.

All data collected is being evaluated to determine a strategy for the next stage of exploration at the Oodnadatta project.

Keywords
South Australia, Proterozoic, Gawler Craton, Gold and Copper, Exploration, Ground Magnetics and Gravity, Surficial Geochemistry, Diamond Drilling, Downhole Magnetics, Core Geochemistry, Core Magnetic Susceptibility, Petrography, Scanning Electron Microscope(SEM) Analysis.

2.0 INTRODUCTION

The Oodnadatta project was selected as an area with the potential to host Iron-Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The Oodnadatta Project is situated on the northern margin of the Gawler Craton adjacent to the northern tip of the Peake and Denison Inlier. Outcrop is limited to small areas of Proterozoic Bedrock which are surrounded by extensive expanses of Mesozoic sediments that comprise the Great Artesian Basin.

2.1 Tenure Details

Exploration Licence 158/2936 was granted on the 26th April 2002 to ReLODE Limited and comprises an area of 1,655 km2 (Figure 1). The tenement is managed by ReLODE Limited.

2.2 Location and Access

The Oodnadatta project is situated 80km south of the township of Oodnadatta in central north of South Australia (Figure 2). The area is accessed by the dry weather Oodnadatta to William Creek road and then via station tracks to the work areas.

2.3 Previous Exploration

Previous exploration has been confined to a restricted ground based gravity survey in the SE of the project area and sporadic drilling campaigns. All of the drilling failed to penetrate the Great Artesian Basin Sediments (GAB) as the purpose of the drillholes varied from targeting coal seams within the GAB to development of water bores.

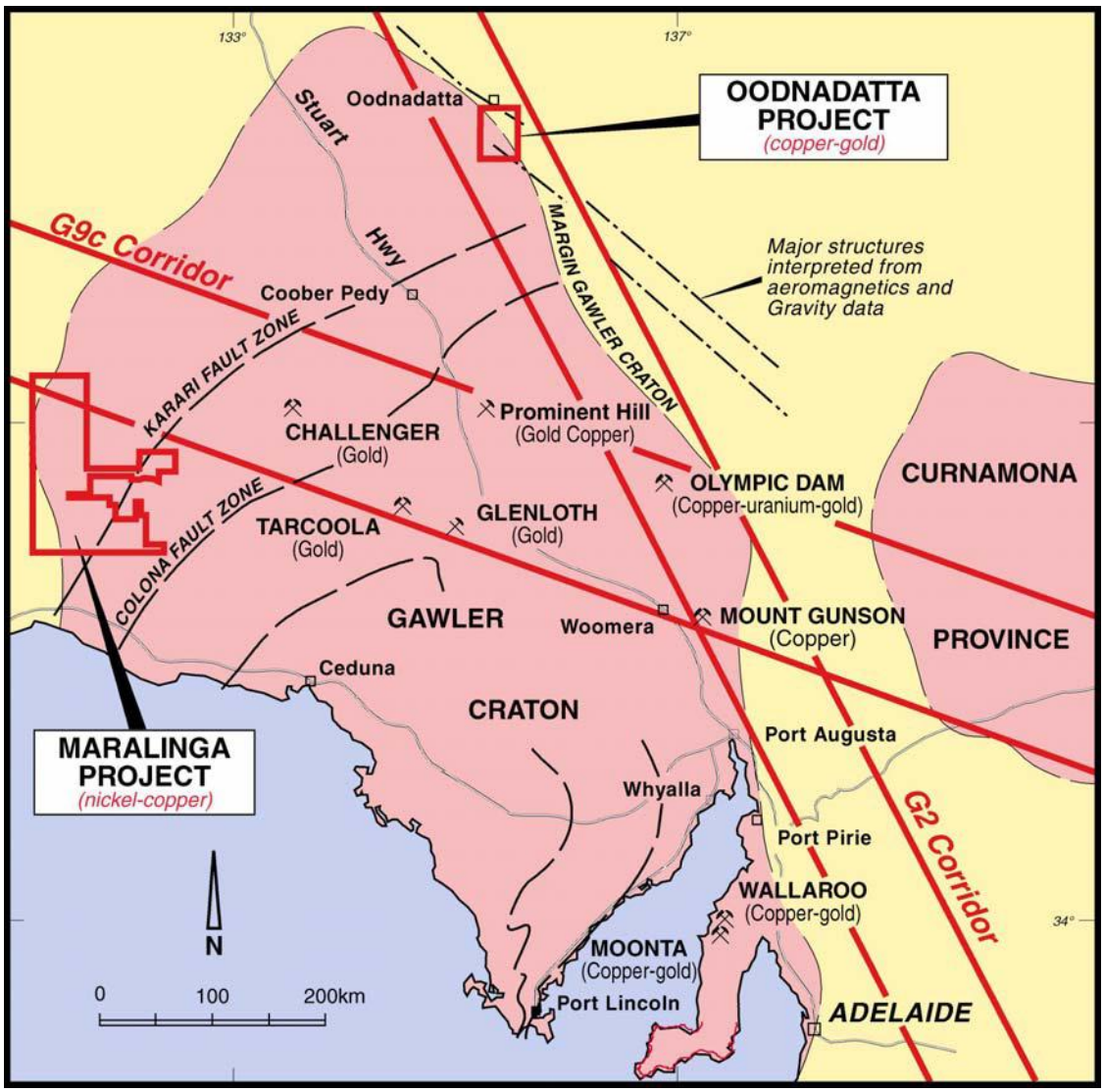


Figure1 – Gawler Craton Tenement Location Plan

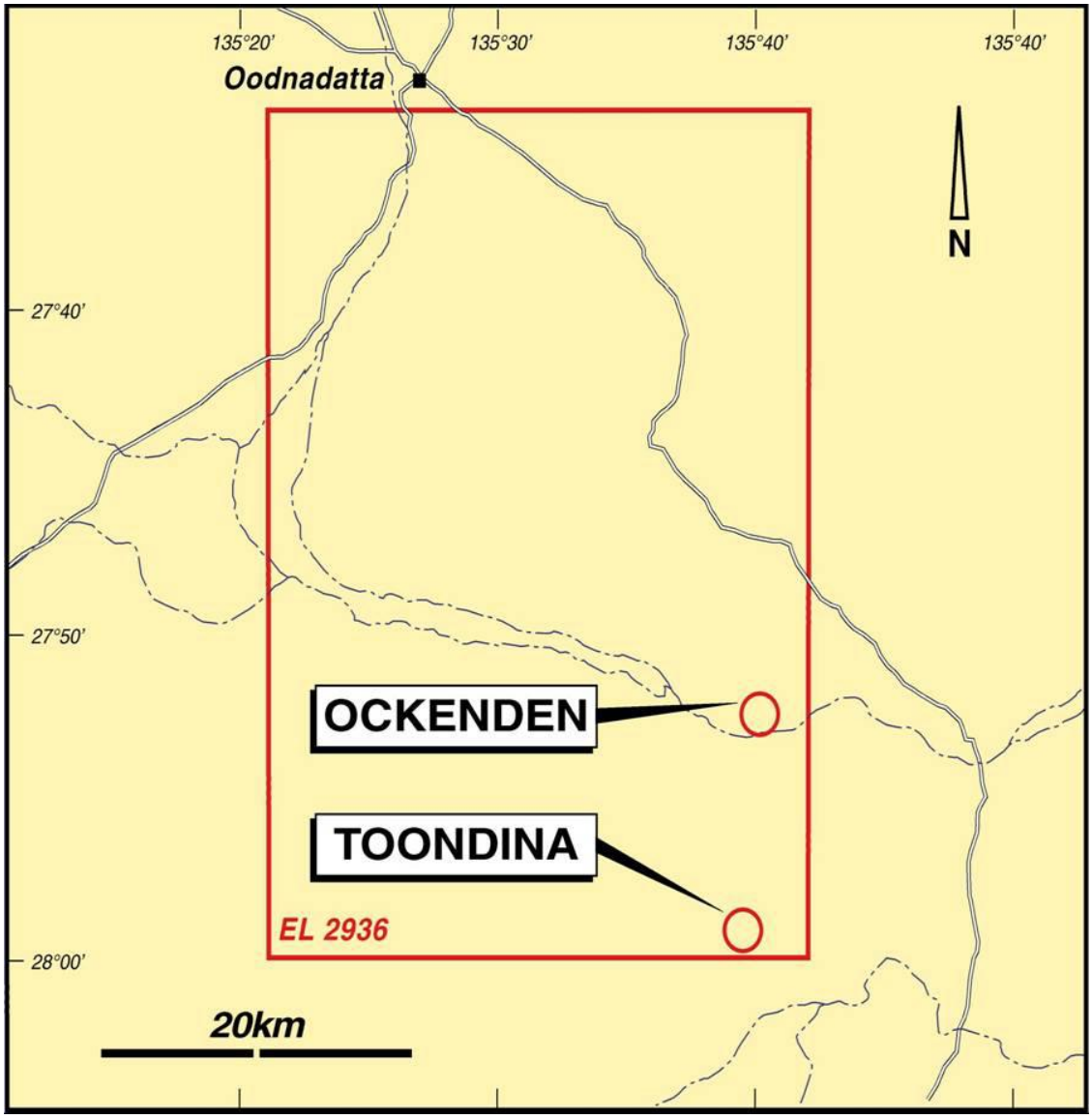


Figure 2 – Oodnadatta Target Location Plan

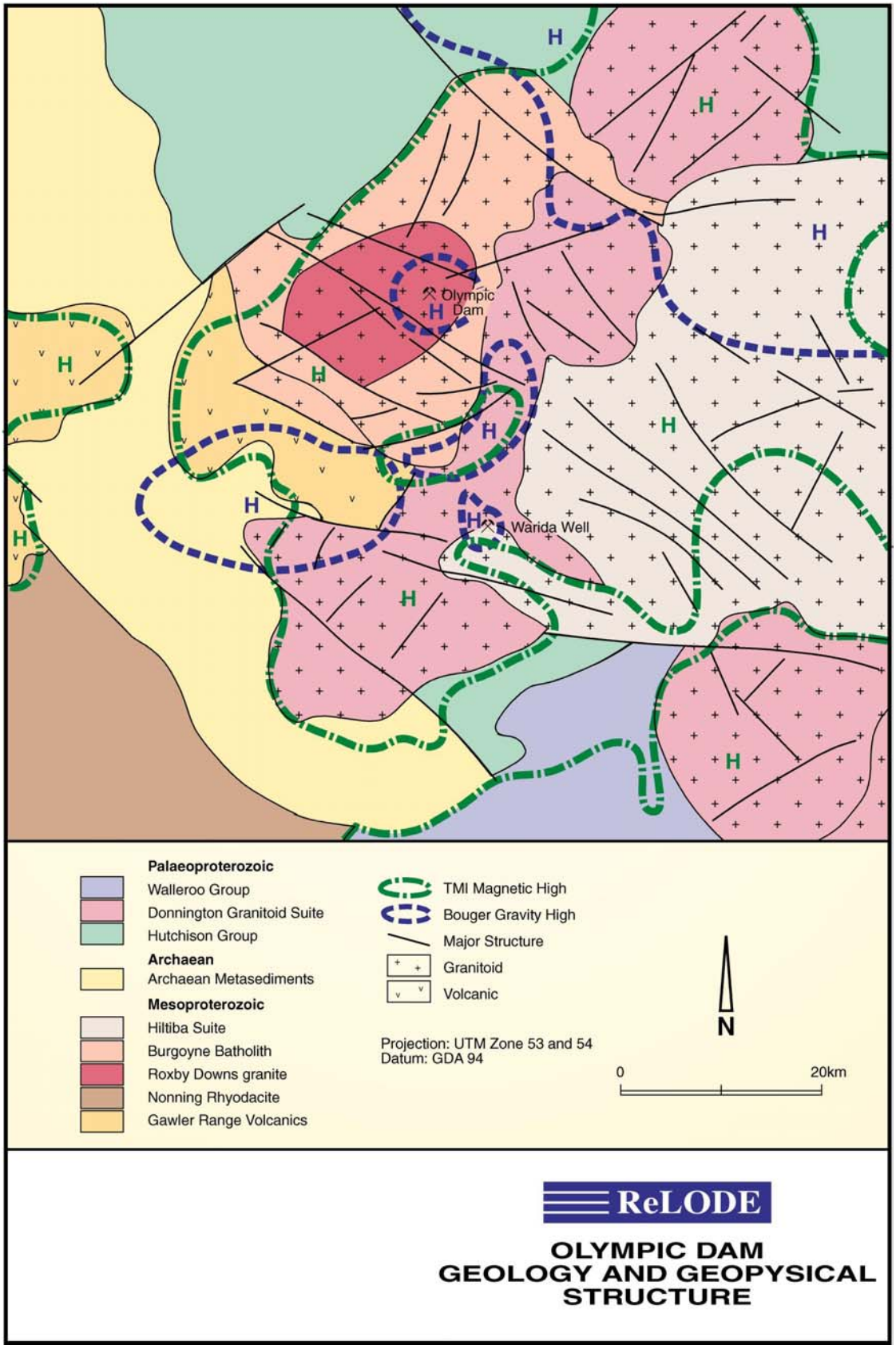


Figure3 – Olympic Dam Geology and Geophysics

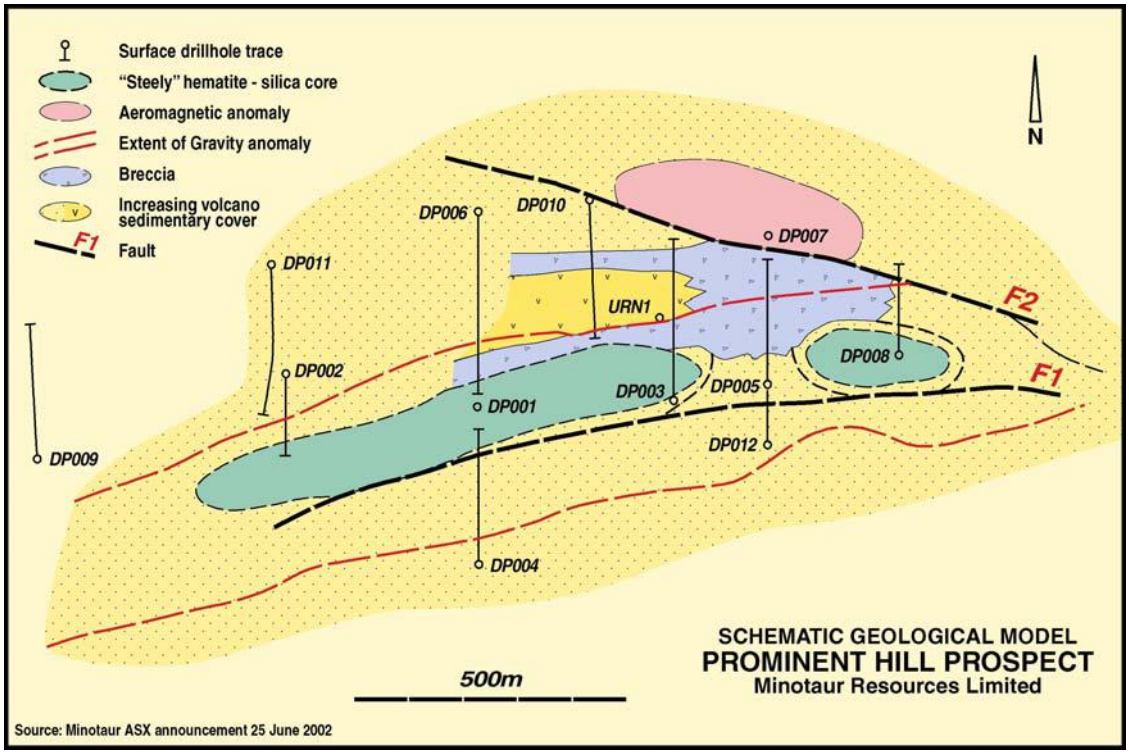


Figure4 – Schematic Geological Model of Prominent Hill

2.4 Exploration Rationale

The Oodnadatta Project was selected as an area with the potential to host Iron Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill (Figure 3 and 4). The criteria used included proximity to craton scale structures, discrete coincident magnetic and gravity highs (Figure 5 and 6), margin of "magnetically active" domains and regional scale alteration. Douglas Haynes Discovery Pty Ltd and Lindeman Geophysics Pty Ltd were contracted to assist in the target selection stage and provide ongoing analysis of results generated. Both consultants have extensive experience in the target style sought. Copies of the consultant reports are included as Appendices 1 and 2

3.0 GEOLOGY

3.1 Regional Geology

The Oodnadatta Project is situated on the northern margin of the Gawler Craton and adjacent to the northern edge of the Peake and Dennison Inliers. The Peake and Dennison Inliers include outcrops of Palaeoproterozoic metamorphic basement which is intruded by granitic and mafic rocks of Palaeoproterozoic and Mesoproterozoic ages. The bulk of the Peake and Dennison Inliers is made up of a very thick sequence

of Neoproterozoic sediments and basal volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks and diapiric structures during the early Palaeoproterozoic Delamerian Orogeny.

3.2 Project Geology

The surface geology is dominated by extensive areas of flat lying Mesozoic Bulldog Shale which is a grey with bivalve molluscs and gypcrete partings. In the north of the tenement the Bulldog shale is overlain by remnants of a much more extensive Tertiary land surface comprising pisolitic and ferruginous sand and sandy conglomerate of the Doonbara Formation.

In the SE of the tenement two Neo and Palaeoproterozoic inliers outcrop at Mount Dutton and Algebuckina Hill. At Mount Dutton the Neoproterozoic Curdimurka Subcrop occurs as siltstone, sandstone and dolomite while 15km to the SE at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

The Toondina Dam target is situated approximately 15km SW of Algebuckina Hill while the Ockenden target is situated approximately 6km south of Mount Dutton. Drilling at Toondina Dam and Ockenden has resulted in the following generalised stratigraphic breakdown (Figure 7).

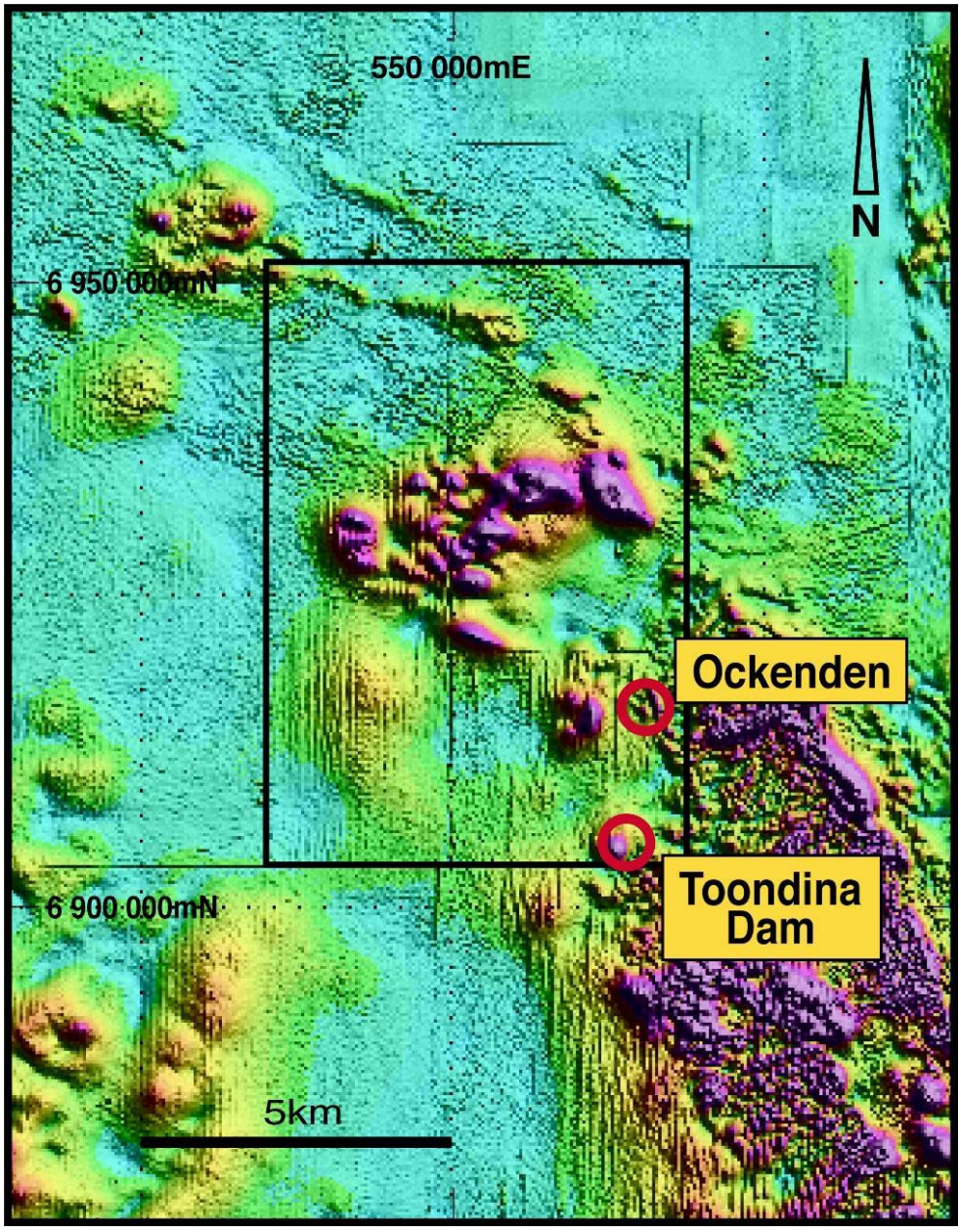


Figure 5 –Oodnadatta Regional Magnetics

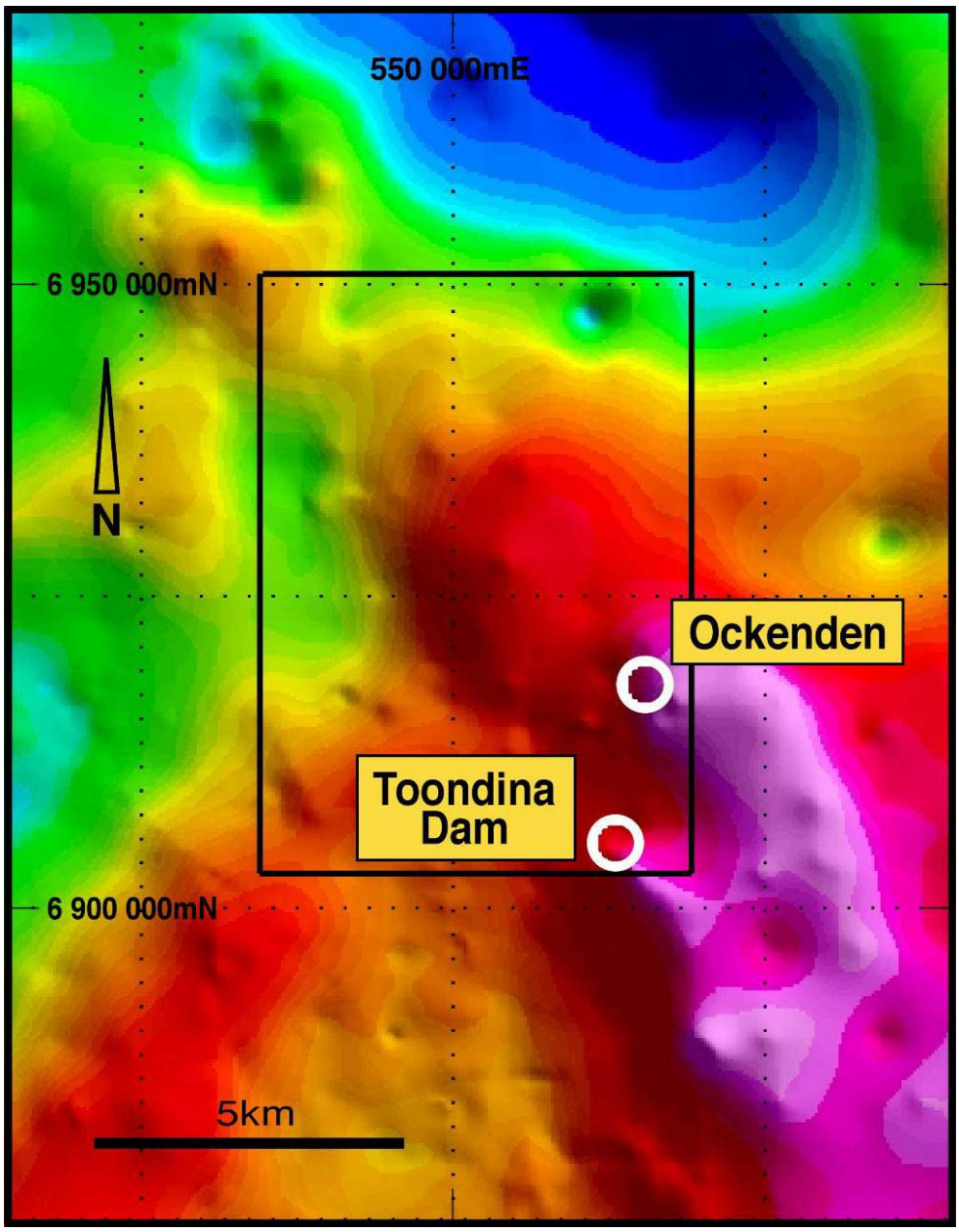


Figure 6 – Oodnadatta Regional Gravity

Depth (m)	Formation	Lithologies	Age
0–50	Bulldog Shale	Grey shale with gypcrete	Mesozoic
50–100	Algebuckina Sandstone Cadna-Owie Formation	Sandstone and siltstone	Mesozoic
100–250	Cadlareena Volcanics (equiv.)	Basaltic Andesite	Neoproterozoic
250–?	Unnamed	“Orthoamphibolite” “Granodiorite”	Palaeoproterozoic

The Algebuckina Sandstone and Cadna-Owie Formation are aquifer bearing units of the Great Artesian Basin and at the Ockenden target water pressures to 39psi were recorded.

3.3 Petrography

Pathfinder Exploration Pty Ltd were contracted to carry out a Petrographic and Scanning Electron Microscope (SEM) study of selected core samples from TNA001 and TNA002 and a copy of the report is included as Appendix 3. A total of 13 samples from TNA001 and 7 samples from TNA002 were analysed by Pathfinder Exploration Pty Ltd in addition to 2 samples from TNA001 being analysed via the SEM.

The petrographic study confirmed the presence of an upper sequence comprising vesicular andesite to basaltic andesite with minor arenite and a lower sequence comprising “orthoamphibolite” and “granodiorite” in equal proportions.

Both the upper and lower sequences have been altered to varying degrees by a propylitic style comprising haematite dusted plagioclase(albite)-chlorite-actinolite-epidote-carbonate. The “granodiorite” in the lower sequence has a distinctive pink colouration associated with potash metasomatism and haematite dusting as well as the introduction of trace pyrite.

A list of the samples collected is outlined below:

Sample#	Depth (m)	Hole	Lithological Unit
1	109.0	TNA001	Cadlareena Volcanics
2	110.5		
3	122.0		
4	137.5		
5	192.0		
6	207.0		
7	226.4		Palaeoproterozoic
8	267.1		
9	273.7		
10	275.8		
11	289.0		
12	321.0		
13	327.5		

SEM analyses were carried out on samples 5 and 11

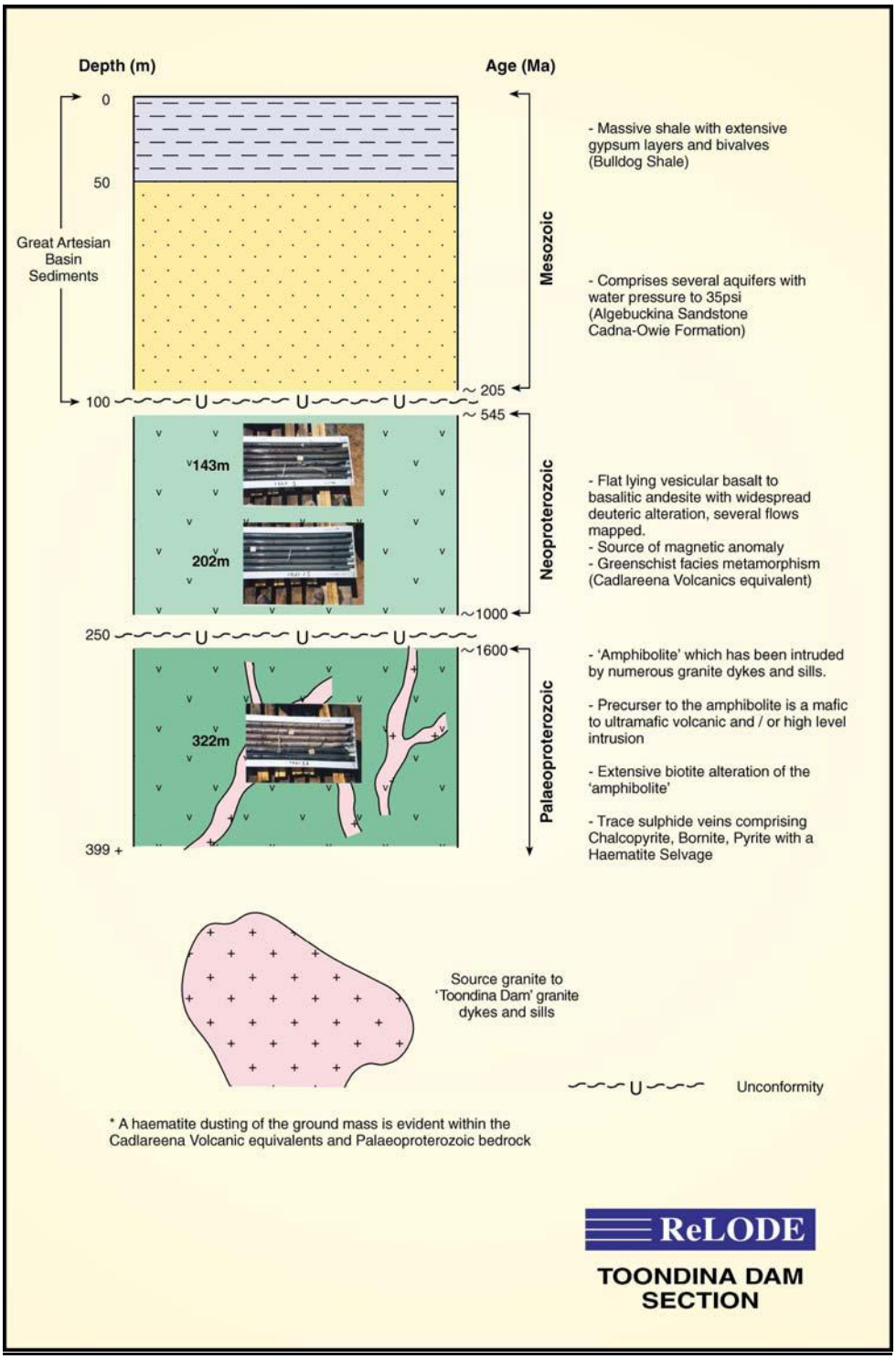


Figure 7- Toondina Dam Schematic Section

Sulphides can locally infill the amygdales of the upper sequence with the presence of chalcopyrite, clausthalite (similar optical properties to galena) exhibiting a close spatial association with an unidentified lead copper (Se, Ag) sulphide and aguilarite AG_4SeS. Electrum (AuAg alloy) has been identified in association with the aguilarite. A mineralised vein sample in the lower sequence contains bornite, chalcopyrite and pyrite in association with a haematite selvage.

4.0 GEOPHYSICS

A ground based gravity and magnetic survey was carried out at the Toondina Dam (Figure 8) and Ockenden (Figure 9) targets by Daishsat Pty Ltd with a copy of both reports included as Appendices 4 and 5. The ground geophysical data was processed by Daishsat Pty Ltd and Lindeman Geophysics Pty Ltd.

4.1 Ground Surveys

A ground magnetic survey was carried out at the Oodnadatta Project over the Toondina Dam and Ockenden targets (Figure 2). The Toondina Dam survey comprised the collection of 432 gravity readings and 21 line km of magnetics along 100m spaced N-S lines. The Ockenden survey comprised the collection of 695 gravity readings and 35 line km of magnetics along 100m spaced E-W lines. The gravity survey used a Scintrex CG3 digital gravity meter and readings were taken every 50m. The magnetic survey used a Gem Systems GSM-19 magnetometer and readings were collected every 10m. The gravity data was reduced using standard reductions on the ISOGAL84 gravity network and GPS data was reduced to MGA coordinates with levels as metres above the Australian Height Datum. A full report for both surveys is included as Appendices 4 and 5.

5.0 GEOCHEMISTRY

5.1 Surface Geochemistry

A selective rock chip sampling program was carried out at the Toondina Dam target to ascertain the extent and geochemical anomalism of sporadic iron and manganese float in the creek between TNA001 and TNA002. Follow up sampling both within the creek and with 1m precollar samples of TNA002 were carried out. A total of 25 rock chip samples and 27x1m precollar samples were collected and submitted to Genalysis Laboratory Services Pty Ltd for analysis. A full set of analytical results are given in Appendix 6 and a summary of the element ranges, detection limits and methods are shown below.

Rock chip samples:

Element Range	Detection Limit	Method
Au: <1ppb	1ppb	B/ETA
Ag: <0.01-0.16ppm	0.01ppm	B/MS
As: 2.7-13.2ppm	0.5ppm	B/MS
Co: 3-1043ppm	1ppm	B/OES

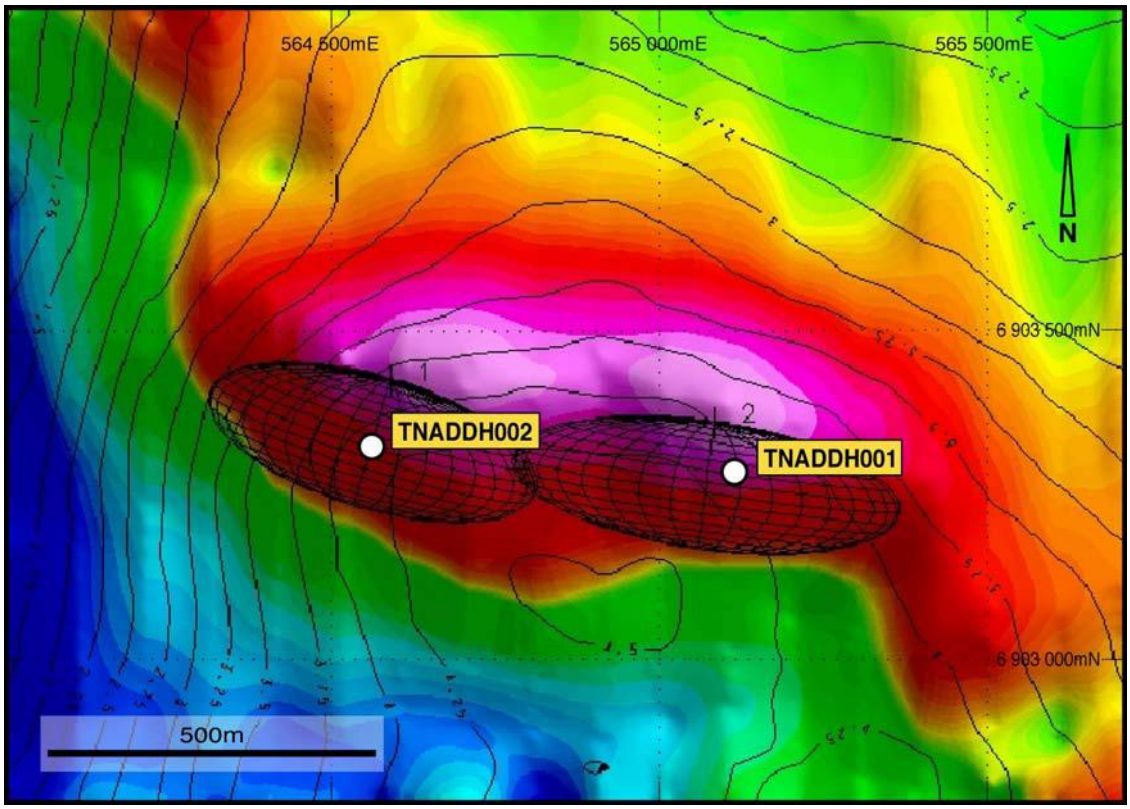


Figure 8 – TMI Aeromagnetics with Gravity Contours

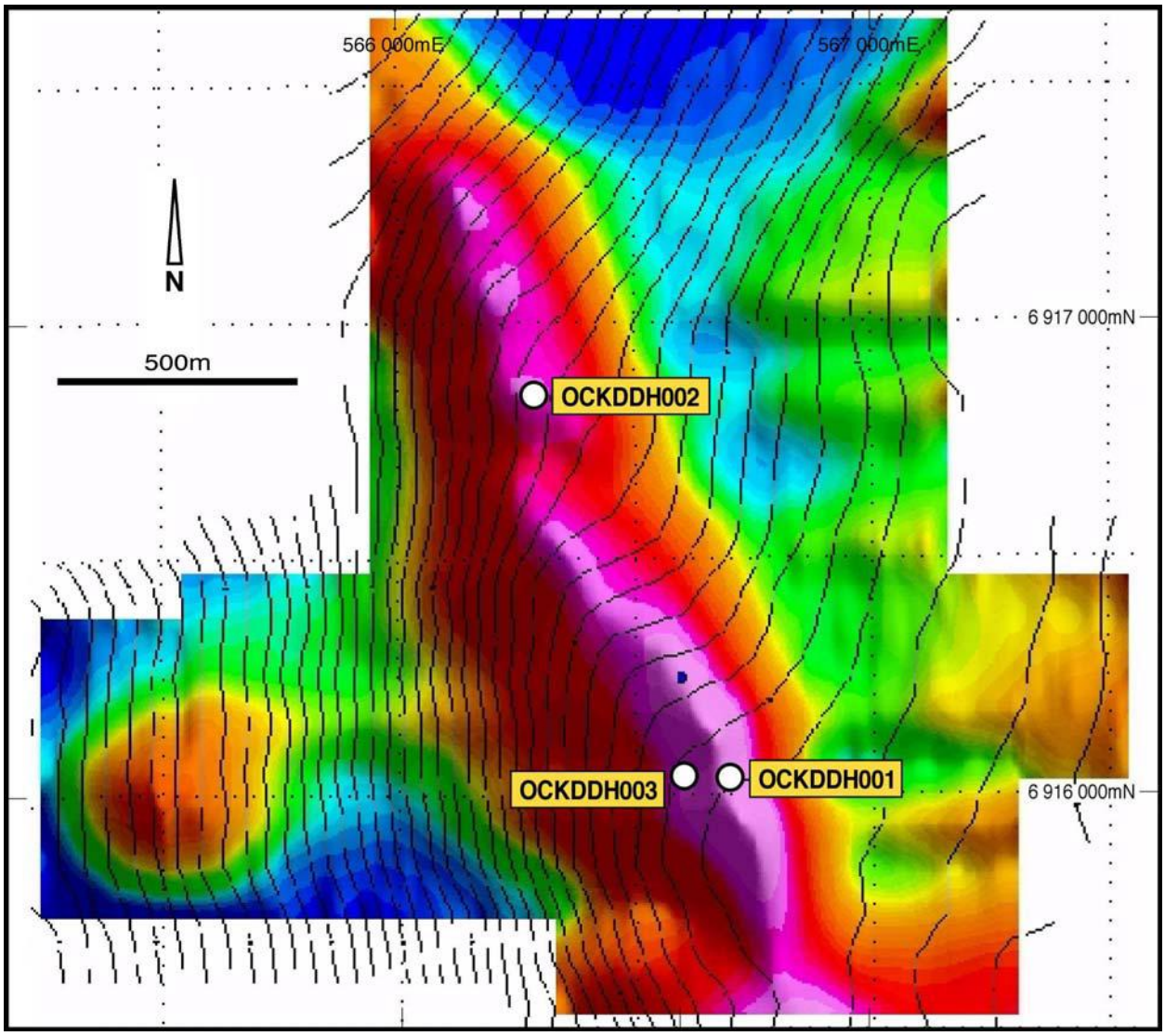


Figure 9 – Ockenden TMI Aeromagnetics with Gravity Contours

Cu: 6-22ppm	1ppm	B/OES
Fe: 0.78-4.16%	0.01%	B/OES
Mn: 0.31%-3.21%	1ppm	B/OES
U: 0.09-1.05ppm	0.01ppm	B/MS
Zn: 32-2031ppm	1ppm	B/OES

Precollar samples:

Element Range	Detection Limit	Method
Au: <1ppb	1ppb	B/ETA
Ag: <0.01-0.12ppm	0.01ppm	B/MS
As: 2.7-17.5ppm	0.5ppm	B/MS
Co: 4-16ppm	1ppm	B/OES
Cu: 16-201ppm	1ppm	B/OES
Fe: 1.12-10.93%	0.01%	B/OES
Mn: 0.02%-0.22%	1ppm	B/OES
U: 0.30-1.33ppm	0.01ppm	B/MS
Zn: 13-100ppm	1ppm	B/OES

The anomalous Zn samples from the rock chip geochemistry was not repeated in the precollar sampling of TNA002 and so the Fe/Mn rock which outcrops sporadically in the creek in likely to be of limited aerial extent and formed by low temperature supergene processes within the creek channel.

6.0 DRILLING

6.1 Drilling Summary

Diamond drilling was carried out by John Nitschke Drilling using a Multipurpose Drilling Rig from the 18th July to the 25th September 2002. Two holes were drilled at Toondina Dam and Ockenden (Figure 8). A drillhole summary is provided below.

Target	Drillhole	Precollar Depth (m)	Total Depth (m)
Toondina Dam	TNA001	108	330
	TNA002	114	399
Ockenden	OWB001		48
	OCK001	86	180

A total of 356m of Rotary Percussion and 601m of Diamond Core were drilled. Note that OWB001 was a water bore drilled for the pastoralist and was drilled to the end of hole by the Rotary Percussion method. Full drilling logs and assay are given in Appendix 7.

Drilling Logs

As the drilling was carried out within the Great Artesian Basin all holes were drilled vertical as per PIRSA requirements including the use of steel casing for the precollar

down to just below the Great Artesian Basin(GAB) sediments. A summary drill log is shown below:

Depth (m)	Formation	Lithologies	Comments
0–61	Bulldog Shale	Fossiliferous Grey shale	With gypsum layers
61–114	Algebuckina Sandstone Cadna-Owie Formation	Sandstone and siltstone	Main aquifer
114–250	Cadlareena Volcanics	Vesicular basaltic andesite	Flat lying with flow tops logged
250–399	Palaeoproterozoic Basement	Amphibolite/"Pink" Granite	Trace sulphide veins

The Bulldog Shale is light grey to dark in colour with numerous gypcrete layers and bi-valve fossils. This unit conformably overlies the Cadna-Owie Formation and Algebuckina Sandstone which are the main aquifer bearing units of the GAB. These units are unconsolidated to semi-consolidated and range in composition from a fine silt through to a quartz sand. The sediments of the Great Artesian Basin are in unconformable contact with the underlying volcanics of the Cadlareena Volcanics which comprise a series of lava flows up to 25m in thickness with several flow top breccias.

The Cadlareena Volcanics show variable alteration to epidote-carbonate-sericite-actinolite which is indicative of a propylitic style alteration. Elsewhere within the Cadlareena Volcanics deuteric alteration is common so the alteration observed at Toondina Dam may simply be mineralogical changes resulting from fluid flow within the volcanic pile during the waning stages of volcanism. In addition haematite alteration is locally developed within the volcanic pile and may be indicative of distal mineralisation.

The vesicles of the Cadlareena Volcanics are filled with chlorite and calcite with trace pyrite and chalcopyrite. One vesicle was observed to contain a grain of chalcopyrite with a rim of electrum.

The Cadlareena Volcanics unconformably overly the Palaeoproterozoic Basement comprising amphibolite and a "pink" coarse grained granite. The contacts between these two units are generally sharp and they make up an equal percentage of the bedrock. The amphibolite is dark green/grey with local bleaching from an alteration event producing sericite-carbonate-actinolite-epidote. The granite is coarse grained comprising "pink" feldspar and quartz and is usually highly jointed. The main gneissic fabric of the basement is near vertical and well developed in both the amphibolite and the granite.

Trace chlorite/carbonate veins contain sulphides including chalcopyrite/pyrite and bornite.

6.2 Analytical Results

Selected core intervals from TNA001, 002 and OCK001 were cut be Petrolabs in Perth and submitted to Genalysis Laboratory for Au and multi-elements analyses. A summary of the sampling for each hole is given below.

Hole	Number of Samples	Sample Numbers
TNA001	132	P262511-P262642
TNA002	157	P262673-P384129
OCK001	24	P384147-P384170

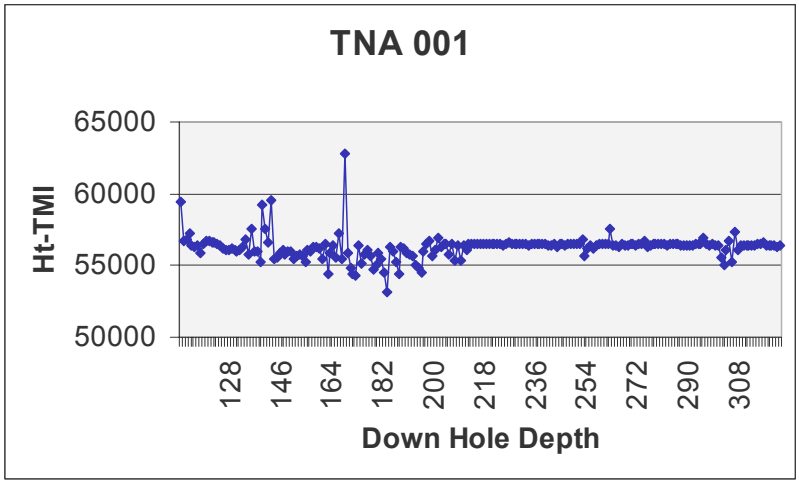
A total of 313 samples were collected as 1m samples for OCK001 and as varying length samples (close to 1m) for TNA001 and TNA002. Full analytical reports are given in Appendix 6 with the maximum results is given below:

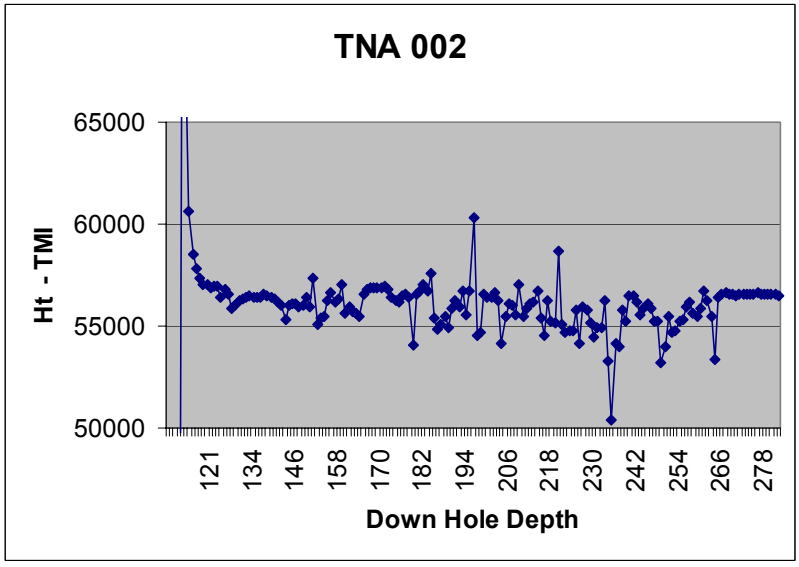
Hole	Au (ppb)	Co (ppm)	Cu (ppm)	Fe (%)	U (ppm)
TNA001	14	45	1768	12.98	4.32
TNA002	27	75	839	9.55	5.07
OCK001	12	47	873	13.87	1.05

Results were generally disappointing with no elevated analyses fir the target elements. The higher Cu results were associated with the upper vesicular basaltic andesite where some of the chlorite filled vesicles contained trace chalcopyrite as was the case for the elevated Fe results which confirmed the higher magnetic character of the vesicular basaltic andesite. The lower orthoamphibolite/granodiorite sequence had elevated U analyses >1ppm which reflects the high % of potassic ally altered granodiorite in the sequence.

6.3 Downhole Geophysics

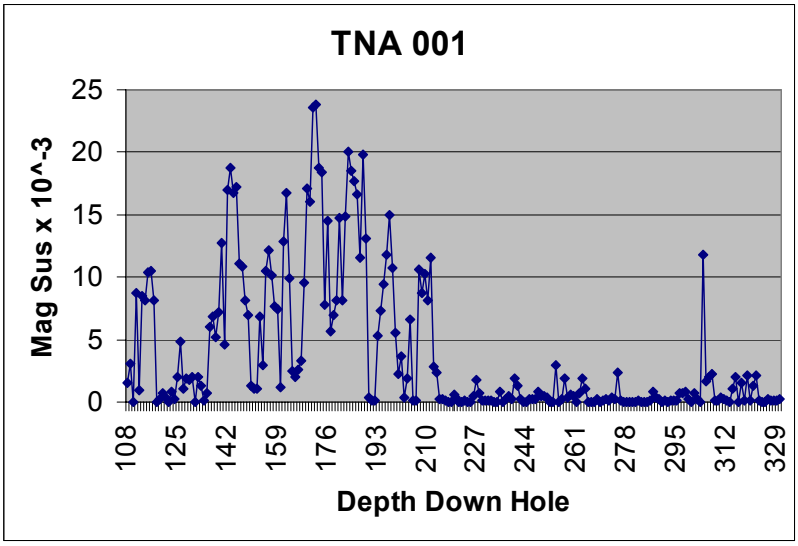
A CHAMP DEMAGS 3 Component Magnetic Survey was carried out down TNA001 and TNA002 for a total advance of 381m. The surveys were carried out below the steel cased precollar. Hole TNA001 was surveyed from 111m to 319m for a total of 208m and TNA002 was surveyed from 110m to 283m for a total of 173m. Hole TNA002 was not surveyed to the end of hole depth of 399m due to the difficulty of placing the PVC casing below 283m. Results confirm the Neoproterozoic basaltic andesite sequence as the source of the magnetic anomaly. A summary of the downhole results are shown below.

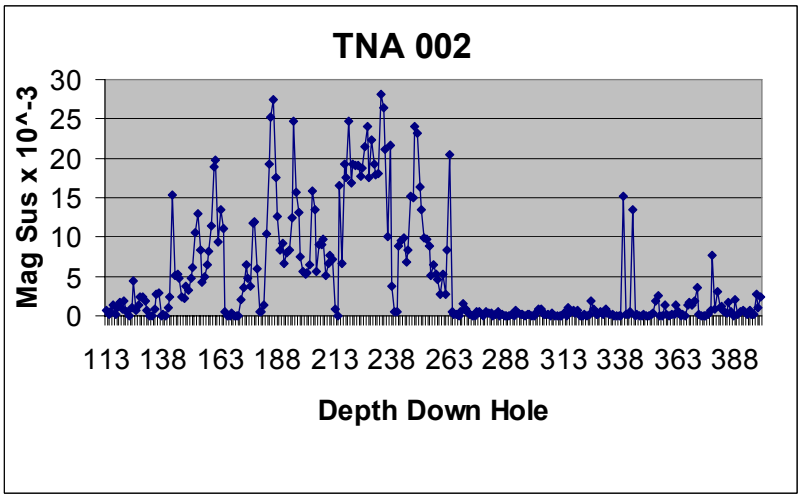




6.4 Core Magnetic Susceptibility

Magnetic Susceptibility readings were collected every meter from drillholes TNA001, 002 and OCK001. Readings collected from TNA001 and TNA002 are shown below show an abrupt change at about 210m and 263m respectively, this change in magnetic susceptibility reflects the change from the upper Neoproterozoic Cadlareena Volcanics (equiv.) to the lower Palaeoproterozoic “orthoamphibolite/granodiorite” sequence. This unconformable contact is also reflected in the downhole magnetic readings. The original idea of a coincident magnetic and gravity target is not applicable for the Toondina and Ockenden targets as the magnetic high is associated with a younger volcanic sequence not associated with the Palaeoproterozoic orthoamphibolite/granodiorite basement. OCK001 finished in the target magnetic anomaly and has a similarly high magnetic response.





7.0 ENVIRONMENT

Prior to field operations commencing ReLODE Limited submitted an Application for work approval to PIRSA. The work approval was subsequently ratified and permission to carry out field operations was granted. All field operations were carried out as per PIRSA guidelines using Earth Resource Information Sheet E8 – Environmental Guidelines for Mineral Exploration Activities in South Australia. In addition the drilling contractors were provided with a copy of Earth Resource Information Sheet – Mineral Drillholes – General Specifications for Construction and abandonment.

Prior to the commencement of drilling photographs were taken of the undisturbed sites and at the termination of drilling activities photographs were taken of the rehabilitated sites. A

selection of photographs is included in Appendix 9. At all stages of the field operations Andrew Clarke, lessee of "Allandale Station" was consulted and on completion of the field operations for 2002 Andrew was consulted as to the rehabilitation planned.

8.0 EXPENDITURE STATEMENT

The following table summarises the expenditure incurred over half the reporting period for EL 158/2936.

ReLODE Limited

Expenditure on Tenements 158/2936
From 26 April 2002 to 25 April 2003

Details	$ (Excl GST)
Tenement Purchases	
Geology and Geophysics	123,882
Drilling	314,230
Logistics	33,409
Administration and Overheads	26,041
Aboriginal Heritage Surveys	2,300
Land Access and Native Title	2,000
Rents and Rates	6,713
TOTAL	**508,575**

9.0 CONCLUSIONS

Exploration within the Oodnadatta Project included the successful drilling of 3 diamond core holes at the Toondina Dam and Ockenden targets despite water pressures of up to 37psi from the aquifers of the Great Artesian Basin. The magnetic component of the Iron Oxide Cu-Au model has been successfully explained as the flat lying Mesoproterozoic Cadlareena Volcanics which occur between 108 and 250m below the Surface. The source of the gravity high is yet to be adequately explained however the basement Palaeoproterozoic units contain a mixture of "pink" granite and amphibolite with the amphibolite having a mafic to ultramafic precursor and so possibly representing a body of rock which is denser than the other Palaeoproterozoic lithologies.

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Appendix 1

An appraisal of Potential for Iron Oxide Copper Gold Ore Types Douglas Haynes Discovery Pty Ltd.

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An Appraisal of Potential for Iron Oxide Copper Gold and Related Ore Types, ReLODE Ltd.Exploration Licence Applications 150/01, Northwest Maralinga, 151/01, Western Maralinga, 152/01 Southwest Maralinga, 153/01, Southwest Ooldea, 154/01, Nullabor, 155/01, Immama North; 156/01, South Maralinga, 157/01, Ifould Lake, 158/01 Neales River Area, Gawler Craton and Environs, South Australia.

Part I: Neales River

Douglas Haynes

Douglas Haynes Discovery Pty Ltd

Ken Cross

Independent Consultant

Monday, 18 February 2002

Report Rel 01

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Abstract

A geological analysis of the data available from ReLODE Limited Exploration Licence Applications 150/01, Northwest Maralinga, 151/01, Western Maralinga, 152/01 Southwest Maralinga, 153/01, Southwest Ooldea, 154/01, Nullabor, 155/01, Immama North; 156/01, South Maralinga, 157/01, Ifould Lake (all subsequently referred to as "Maralinga ELAs"), and 158/01, Neales River, was performed with the aim of defining areas of interest for a range of ore types. Ore types targeted were iron oxide copper gold, and other ore types such as iron sulphide copper gold, volcanogenic hosted massive sulphide, and mafic hosted copper nickel deposits. Most of the exploration licence applications are clustered near and on the extreme western margin of the Gawler Craton ("Maralinga ELAs"); and one, "Neales River" (158/01) is on the northeast margin.

Part I of this report describes the Neales River Exploration Licence Application (ELA); the Maralinga ELAs will be described in Part II. The report is in two parts because critical data for the Maralinga ELAs are not yet available from PIRSA in order to complete the interpretation.

The analysis shows that potential areas of interest for iron oxide copper gold mineralisation and related types of mineralisation are within the Neales River ELA only, but most are likely to be too deep for them to represent likely exploration propositions. At Algebuckina, however, the main magnetic and gravity anomaly, centred approximately on 563200E, 6904500N, has an interpreted depth to source of 730m, but a second and much smaller response, centred at 564800E, 6903200N, is likely to be at an exploration favourable depth. The second and smaller response may represent a body with dimensions 920m x 320m x 1060m, and, depending how the magnetic gradient is removed, may represent a source with a top between 40 and 360m depth. As it is close to the NW end of one of the major NNW trending faults displaying magnetite-additive alteration possibly indicative of copper mineralisation, it represents a low priority play for an exploration test.

There are no other likely areas of interest for iron oxide copper gold mineralisation or for variations on the iron oxide copper gold theme at exploration friendly depths within the Neales River ELA. The potential areas of interest are summarised in the following table.

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Area & Licence Application Number	AMG Co-Ordinates and Estimated Depth to Target	Ore Type, Comments
Algebuckina (158/01)	6903000-6906000N 562000-565000E 730 m	Iron Oxide Copper Gold or variation on the iron oxide copper gold theme. An interesting target, as it is on the intersection of two major faults that appear to display iron oxide copper gold style alteration as evident in the aeromagnetic data. Host likely to be within the Peake Metamorphics. The major part of the anomaly, however, is at depths of 730m of more, with the consequence that it is likely to be too deep to be of interest. A smaller anomaly SE of the large anomaly here is at a shallower depth and may represent a potential exploration play for copper mineralisation within the major NNW trending fault here.
Borthanna (158/01)	6913000-6918000N 559000-563000E 590m	Iron oxide copper gold or variation on the iron oxide copper gold theme. The target is likely to be within deeply buried Peake Metamorphics or other Palaeoproterozoic rocks of the Gawler Craton at the concealed NW end of the Peake and Denison "domain". The target is a coincident gravity and magnetic anomaly, and it displays some elements indicating that it is likely to be associated with a 045° trending break. Unfortunately, source of magnetic anomaly probably too deep for the area to be of interest.
Allandale (158/01)	6928000-6932000N 552000-557000E > 530m	Iron Oxide Copper Gold or variation on the Iron Oxide Copper Gold theme. An excellent conceptual play. It part of a large and complex gravity and aeromagnetic anomaly, sited on a major 045° trending zone of aeromagnetic and gravity anomalies on the NE Gawler Craton. Unfortunately, anomaly likely to be too deep to be of interest.

The analysis was performed utilising publicly available exploration data from prior exploration programs conducted in and adjacent to the exploration licences, published geological data on the exposed parts of the Peake and Denison "domain" of the NE Gawler Craton, together with various renditions of the potential field data from the areas covered by the Neales River ELA. The data were then interrogated using the relevant ore type occurrence models. Depths to the likely target were estimated using prior exploration data from the area and the standard geophysical inversion models.

The areas of interest should be subjected to the following evaluation steps.

(1) If the estimated depths to the source of the anomalies in the respective areas of interest do not preclude a potential play of interest to ReLODE Ltd, then they should be subjected to grid based gravity and magnetic data acquisition.
(2) The source of the gravity anomalies in the areas of interest in the Neales River ELA each tested with a single drill hole to fresh bedrock.

The potential plays within the Neales River ELA are technically very interesting, but most are likely to be too deep to be of interest in a practical sense. The only play of likely interest is the small magnetic anomaly to the SE of the large anomaly in the Algebuckina area of interest. If the recommended exploration program here confirms that the anomaly is shallow, it should then be subjected to a program of grid-based geochemistry utilising partial leach extraction technology.

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Frank Lindeman, of Lindeman Geophysics, generated and presented all of the potential field data used in the appraisal, and also modelled depths to sources in the respective targets. Ken Cross, an independent consultant, obtained and appraised the publicly available open file exploration data. Douglas Haynes performed the geological appraisal and defined the areas of interest described in this report. Douglas Haynes wrote most of the report, with some assistance from Ken Cross.

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Introduction

ReLODE Limted approached Douglas Haynes Discovery with a request to evaluate the potential of their Exploration Licence Applications 150/01, Northwest Maralinga, 151/01, Western Maralinga, 152/01 Southwest Maralinga, 153/01, Southwest Ooldea, 154/01, Nullabor, 155/01, Immama North; 156/01, South Maralinga, 157/01, Ifould Lake, 158/01 Neals River Area, for iron oxide copper gold mineralisation and related types of mineralisation in early February, 2002. Accordingly, a reconnaissance scale appraisal of publicly-available data from their licence was performed from the 7th-20th February, and on the 18th and 19th March, with assistance from F Lindeman, of Lindeman Geophysics, who provided and processed relevant PIRSA potential field data from the areas of the exploration licences, and K Cross, who obtained relevant open file geological data generated by prior minerals exploration in the same areas, and who evaluated the likely effectiveness of prior exploration work. The work by K Cross revealed that there is limited sub-surface information available, with the consequence that much of the interpretation is based on the potential field data. Locations of the exploration licences in relation to the regional geology of South Australia are illustrated in **Figure 1**. (all Figures are at the end of this document)

The appraisal was performed with the principal aim of defining specific targets for iron oxide copper gold mineralisation or related ore types, such as iron sulphide copper gold mineralisation (Haynes, 2000). However, as the appraisal of the Maralinga Exploration Licence Applications, which are on and near the western margin of the Gawler Craton, showed that they are unlikely to have potential for iron oxide copper gold mineralisation or related ore types, the appraisal was extended to cover volcanogenic hosted massive sulphide mineralisation, and variations on the theme represented by mafic hosted copper nickel deposits. In the appraisal for these ore types, emphasis was placed on definition on what were perceived to be the most obvious targets rather than definition of all possibilities, because of the high risk of failure in exploration for these ore types.

The report on the appraisal is in two parts. Part I describes the Neales River ELA appraisal; and Part II the appraisal of the Maralinga ELAs. The report was broken into two parts because of critical data required to complete the appraisal of the Maralinga ELAs is not yet available.

Appraisal

The description of the appraisal commences with an outline of the work performed, continues with a description of the models and their targeting parameters, and concludes with a description of the individual areas of interest defined in the work. It is emphasised that description of the models and the targeting parameters is strictly confidential to the client, and must not be divulged to any outside party without express written permission from Douglas Haynes Discovery P.L.

Work Completed

Work completed by K Cross, F Lindeman, and Douglas Haynes Discovery Pty Ltd in performing the appraisal comprised the following:

1 Acquisition of all PIRSA potential field data from the area of the licences; and treatment of the data to generate renditions that facilitate definition of basement structures, major

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lithological-alteration units, and major intrusive bodies. F Lindeman, of Lindeman Geophysics, performed this work.

2 Acquisition of all PIRSA documented open-file exploration data relevant to definition of basement geology, with an emphasis on acquisition of previous geological interpretations of basement geology in the areas of the licences, and previous drill holes that generated information on basement geology.

3 Plotting of relevant open file drill hole locations and supporting geological data on to 1:250,000 scale plans of the areas of the exploration licences. Work in (2) and (3) was performed by Ken Cross, an independent consultant, and Douglas Haynes Discovery P. L.

4 Production of a simple and broad scale geological interpretation of the basement geology of the areas of the exploration licences with an emphasis on definition of geophysical features relevant to the ore types of interest. Douglas Haynes Discovery P L and Ken Cross performed this work.

5 Estimation of likely depths to sources of the magnetic anomalies in the areas of interest in the Exploration Licence Applications. Frank Lindeman, of Lindeman Geophysics, performed this work.

6 Definition of preliminary plays of interest for the ore types likely to occur within the areas of the exploration licences through application of the occurrence models, and production of maps illustrating the plays.

7 Definition of exploration programs that would most efficaciously evaluate the plays and define drilling targets if they exist, and reporting on the work. Work in (5) and (6) was performed by Ken Cross and Douglas Haynes Discovery P. L.

All of the large plans, open file report copies, and related data generated in the appraisal are within separate folders. The 1:250,000 and 1:100,000 scale geological plans, and geophysical plans utilised in the analysis are within a separate map cylinder, being forwarded separately; and the open file exploration reports and accompanying exploration plans are within a separate folder, also being forwarded separately. The data being forwarded separately is summarised in the Table below. The geological plans and geophysical plans are in the sequence listed in the map cylinder. Note that Plans NR1, NR2, NR3 and NR4 are in this collection. All of the relevant prior open file exploration data in the area of the Neales River ELA are in a separate folder, also being forwarded.

The specific areas of interest are illustrated on 1:250,000 scale plans in Figure NR1, NR2, NR3 and NR4.

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Title and Source	Map Scale	Description
6042 (PIRSA; annotations by K Cross)	Non Standard	Prior exploration and water bore drill holes, Neales River ELA area. PIRSA drill hole locations file data set
5942 (PIRSA; annotations by K Cross)	Non Standard	Prior exploration and water bore drill holes, Neales River ELA area. PIRSA drill hole locations file data set
Tectonic Sketch and Drill Hole Locations, Oodnadatta (PIRSA; overlay by K Cross)	1:250,000	Tectonic Sketch Map (Geological Survey of SA), Oodnadatta; double clear overlay shows location of prior drilling in area of Neales River ELA.
Figure NR1: Analytical Signal of TMI for Neales River ELA (Lindeman Geophysics; annotations by D Haynes)	1:250,000	Plan showing location of the Neales River ELA in relation to the geophysical data. Areas of interest defined in study shown on plan.
Figure NR2: First Vertical Derivative of TMI Shaded (Lindeman Geophysics)	1:250,000	Plan showing location of the Neales River ELA in relation to geophysical data
Figure NR3: Fist Vertical Derivative of the TMI (Lindeman Geophysics; annotation by D Haynes)	1:250,000	Plan showing location of the Neales River ELA in relation to the geophysical data
Figure NR4: First Vertical Derivative of the TMI on the Bouguer Gravity (Lindeman Geophysics; annotations by D Haynes)	1:250,000	Plan showing the Neales River ELA in relation to the geophysical data
First vertical derivative of the TMI: greyscale (Lindeman Geophysics)	1:250,000	Plan showing the Neales River ELA in relation to the geophysical data
Bouguer Gravity on First Vertical Derivative of the TMI	1:250,000	Plan showing the Neales River ELA in relation to the geophysical data
Algebuckina (PIRSA)	1:100,000	Standard state survey geological map
Warrina (PIRSA)	1:250,000	Standard state survey geological map
Oodnadatta (PIRSA)	1:250,000	Standard state survey geological map
Compilation of Open File Data (K Cross)	Folder	Copies of all relevant prior open file exploration data
Warrina Explanatory Notes (PIRSA)	Folder	Geological explanatory notes, Warrina 1:250,000 geological map

Occurrence Models

The occurrence "models" used in definition of the individual areas of interest are listed below. It is emphasised that the models described here are those applicable at province scales, for example, from 1:250,000 to 1:100,000 scale, and they are not necessarily applicable at target scale. Emphasis is placed on definition of features evident in the potential field data, as such data are most relevant to target definition for these ore types in the ReLODE Ltd exploration licence applications.

It is also emphasised that the models when applied at these scales are more likely to result in discovery of large alteration and mineralisation systems, although it is stressed that the chances of success through application of the occurrence models are extremely small.

Iron Oxide Copper Gold-Gawler Craton

Iron oxide copper gold deposits comprise predominant magnetite or hematite, with embedded copper iron sulphides and pyrite. The mineralisation occurs within alteration haloes comprising sericite, chlorite and hematite, or biotite-K feldspar-chlorite-magnetite, and other minerals such as sericite, actinolite, and garnet. Deposits of interest contain greater than 20 wt% magnetite or hematite (see for example Haynes 2000; Hitzman et al., 1992; Williams and Skirrow, 2000; Reeve et al., 1990)

The key geological and geophysical features that can be used to define areas of interest for occurrences of iron oxide copper gold mineralisation are:

1 A discrete magnetic anomaly, which for the magnetite-rich deposits has amplitudes generally within the top 10% of the cumulative frequency range of the amplitudes for a

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geological province that is "magnetically active". For the hematite-rich deposits, the magnetic anomaly has much smaller amplitude, but it can be the mid-range of the distribution of amplitudes, or higher, for the target province. The anomaly may not be coincident with the economic mineralisation, and if not, will be immediately adjacent, and will be associated with weak mineralisation embedded within alteration comprising magnetite, albite or K-feldspar, sericite, chlorite and biotite (Haynes, 2000).

2 A discrete gravity anomaly, usually but not always coincident with the magnetic anomaly, particularly for the hematite-rich deposits. The anomaly tends to be a shorter wavelength, and has amplitudes ranging from the mid-range of the amplitudes displayed to a maximum for the province.

3 Occurrence of deposits on or near the margins of "magnetically-active" domains within the target province. This is particularly evident for the deposits on the Gawler Craton, where Olympic Dam, Wirrda Well, Prominent Hill, Cairn Hill, and several weakly mineralised systems, all occur on the margins of magnetically active domains (Haynes, 2000).

4 An association of the largest deposits with a set of 040-050° trending major faults developed within the Gawler Craton (**Figure 2**). Both the Olympic Dam and Prominent Hill discoveries occur adjacent to faults in this set, and have configurations of mineralisation consistent with oscillatory strike slip displacements on the faults. There are several other smaller deposits on the Gawler Craton that are associated with this fault set, such as the Mt Gunson deposit, and apparently "barren" hematite breccias at the NW end of the Mt Woods Inlier (Flint, 1993; Flint et al., 1993; Parker, 1993).

5 The deposits are either embedded within regional scale alteration comprising EITHER albite, actinolite, magnetite, chlorite, epidote, scapolite, sphene, K-feldspar OR hematite - sericite- carbonate- chlorite -illite OR both of these assemblages. The alteration generates a distinctive magnetic signature, as evidenced, for example, by the magnetic pattern of the domain containing the Olympic Dam deposit, the domain hosting the Moonta deposits, and the Mt Woods Inlier. The magnetic signatures of such altered provinces or terranes contain elements that can readily be seen to have both lithological layer-parallel and fault located elements (Haynes et al., 1995; Barton and Johnson, 1996; 2000; Haynes, 2000).

6 The deposits display a regional association with the Hiltaba Granite suite. Such granites occur within 10 km or less of all of the major iron oxide copper gold deposits on the Gawler Craton (see for example, Creaser, 1989). The granites are readily recognised in the regional scale aeromagnetic data. However, a younger granite event at 1533 Ma is locally developed in the Peake and Denison Inlier (Rogers and Freeman, 1996). This younger event may be in part responsible for the small iron oxide copper gold deposits and intense actinolite- albite-magnetite- chlorite- carbonate alteration on the eastern side of the Peake and Denison Inlier. This younger event is temporally equivalent to that associated with iron oxide copper gold mineralisation in the Mt Isa Inlier, such as Ernest Henry, Osborne, and Selwyn (Starra) (see Williams and Skirrow, 2000, for example).

All of the features noted here are usually readily apparent in the potential field data; and these were used as the principal tools to appraise the areas covered by the ReLODE Ltd exploration licence applications.

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Volcanogenic Hosted Massive Sulphide Deposits

Because the western group of the exploration licence applications covers reworked Archaean terranes abutting the western margin of the Gawler Craton, they require evaluation for their potential for volcanogenic-hosted massive sulphide (VHMS) deposits.

The target definition syndromes for VHMS deposits expressed as their equivalents in the potential field data are not as well defined as for the iron oxide copper gold deposits. The principal syndromes are listed here, although it is cautioned confirmatory research is required to define a more robustly constrained set. There are no specific literature sources for the features noted here, which have been generated through the writer's experience in exploration for these deposits. However, excellent summaries of key geological features associated with the deposits are in Large, 1992; Large et al. (2001); Franklin (1995); Franklin et al. (1981), and Lydon (1988).

1 Archaean- or Palaeoproterozoic-aged deposits overlie a sequence of submarine mafic volcanic rocks that have a thickness in excess of one kilometre. In higher-grade metamorphosed Archaean or Palaeoproterozoic terranes or provinces, the sequence of mafic volcanic rocks would be evident as amphibolites which characteristically contain minor or no interbedded meta-sedimentary rocks such as schist. The amphibolites are usually associated with longer wavelength and moderate amplitude gravity anomalies, and can be, but not always, weakly magnetically active. The weak magnetic signature is caused by ubiquitous but minor magnetite, likely to be formed by oxidation of ferrous iron minerals in the rocks by (seawater-derived) sulphate in the ore-forming hydrothermal fluids at the time the VHMS deposits were formed. It is emphasised that more research is required on the magnetic potential field signatures of basalts altered by hydrothermal waters derived from seawater to confirm or negate this point. Nevertheless, it will be used in the appraisal described here.

2 Large VHMS deposits occur on major lithological contacts in the succession, usually on contacts between felsic volcanic rocks and sediments. The felsic volcanic rocks tend to be lenticular, and isolated in extent relative to the sediments and to the underlying mafic volcanic rocks. In metamorphosed provinces, the sediments would be represented as schists or schistose gneiss, containing graphite, and the felsic volcanic as lenticular felsic gneiss units. The meta-sediments would be expected to be generally "magnetically quiet".

3 Alteration associated with the larger VHMS deposits can contain magnetite, so the occurrence of discrete weak magnetic anomalies on or near the contact between magnetically-active and magnetically-quiet units could represent such mineralisation, particularly if the magnetic anomaly is adjacent to a low amplitude, short-wavelength gravity anomaly.

4 VHMS deposits are localised by syn-volcanic faults, which may locally be very hard to detect; however, in deformed host successions, cryptic expressions of such faults may be rapid thickness changes or disappearance of individual stratigraphic horizons from the lithological succession.

It is emphasised that preservation of VHMS deposits at or just below the current bedrock surface requires an unusual conjunction of circumstances, as VHMS deposits have short vertical dimensions, with the consequence that they are readily lost through subsequent erosion, or are

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likely to be buried too deeply to be of interest. The probability of discovery of economic occurrences of VHMS deposits in high-grade metamorphosed and deformed terranes is therefore exceedingly small.

Mafic-Hosted Copper Nickel Deposits.

The Neales River and the Maralinga ELAs are close to and coincident with major terrane bounding faults, with evidence for deformed and metamorphosed large mafic igneous provinces in the area. Consequently, some consideration needs to be made for mafic-hosted copper-nickel deposits, although for reasons noted below, such potential is not likely to be good because the terrane bounding faults here are unlikely to be steeply dipping.

The target definition syndromes for mafic-hosted copper-nickel deposits are well defined in the published literature, but are reiterated here for convenience. Examples of mafic-hosted copper-nickel deposits that may be localised by the syndromes noted here are Jinchuan, small deposits in the Emeishan region of southern China, small deposits in the Muskox Intrusion, Canada, Voisey's Bay, and Noril'sk (in part). Excellent summaries of geological features associated with mafic hosted copper nickel deposits are in Barnes et al. (1997); Keays (1995); Lightfoot et al. (1994); Lightfoot and Hawkesworth (1997); Naldrett (1989; 1997); Naldrett et al. (1996) and Ryan (2000).

The key regional scale features of the target definition syndromes for mafic-hosted copper-nickel deposits are:

1 Occurrence of a large igneous province (LIP) comprising predominantly mafic rocks derived from a parent with picritic affinities. The preserved parts of the LIP must be within several kilometres of the land surface that existed at the time of volcanism associated with emplacement of the LIP. The definition of the likely relation of the unconformity surface on which volcanic component of the LIP was emplaced to the current targets of interest is therefore an essential pre-requisite to success in such target delineation programs, although the definition would be a very difficult task in high grade metamorphosed and deformed rocks.

2 The LIP usually has dimensions of several hundred kilometres of more, with a long axis parallel to a major fault bounding a craton with an Archaean component. The rocks of the LIP will be readily detectable in the potential field data as longer wavelength gravity anomalies and as a province of magnetically active rocks. In the western Gawler Craton, and in adjacent terranes, such rocks would be represented by amphibolites with a magnetically active character.

3 Occurrence in the LIP of mafic rocks displaying evidence for crustal contamination, for example, anomalous concentrations of LILE, mixed sources of sulphide sulphur, high La/Yb ratios, sulphur isotopes, and other quite esoteric geochemical signatures. Direct mineralogical indicators would be occurrence of various mafic rocks containing abundant hypersthene, partially resorbed xenoliths of (or xenocrysts from) siliceous crustal rocks, and unusual hybrid rocks. Nickel, copper and PGE depletion is another characteristic signature, although definition of such features requires good outcrop and very extensive sampling to ensure that the appropriate suite of mafic rocks within the LIP is sampled. Active magnetic

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potential field signatures can characterise fertile mafic rocks in the LIP, but unfortunately, such a signature is not unique to the fertile rocks.

4 The association of the LIP with a crustal scale fault that dips steeply, despite deformation and inversion. The crustal scale fault must bound a terrane or craton containing Archaean components which may be remelted and metamorphosed in belts peripheral to the cratonic nuclei. The fault may be locally cryptic, and may only be identifiable through a major but distinct change in the longer wavelength gravitational potential field.

5 Locally, evidence in the LIP for a mafic intrusive of complex shape that is generally at a higher angle to the strike of the crustal scale fault. The intrusive will be the target of interest. It is emphasised that the body will usually be small relative to the larger bodies of mafic rock in the LIP. In strongly deformed rocks, the definition of local intrusive bodies that initially had these properties would be very difficult in regions of concealed bedrock.

6 A host succession to the LIP containing either evaporites or abundant reduced sulphur, either as dispersed pyrrhotite or pyrite. The magnetic signature of such rocks will be usually "quiet".

The targets for mafic-hosted copper nickel deposits are most easily defined for all of the ore types sought here. However, genuinely prospective opportunities are very rare because of the requirement for an unusual conjunction of circumstances resulting in preservation of mineralisation close to the unconformity on which the volcanic component of the LIP was emplaced.

Occurrence Models: Conclusion

All of the occurrence models summarised here were applied in appraisal of data in each of the groups of exploration licences. The potential field data from the areas of the exploration licences provided the most valuable source of information for the area-of-interest definition programs.

Areas of Interest: Neales River Exploration Licence Application 158/01.

The ReLODE Ltd exploration licences were appraised using the above occurrence models in conjunction with data generated from prior exploration, and the magnetic and gravity potential field data. Part I of this report describes the appraisal of the Neales River Exploration Licence Application 158/01, and the forthcoming Part II describes the appraisal of the Maralinga ELAs.

The Neales River Exploration Licence Application is sited just south of Oodnadatta, between 135°21'E and 135°41'E and 26°34'S and 28°00S. The location of the licence is shown in **Figure 1**. The area of the licence is geologically complex, comprising elements of the Gawler Craton, Adelaide "Geosyncline", the Officer Basin, the Arckaringa Basin, and the Borthanna Trough. The target areas are within the Gawler Craton.

The principal features of the geology are:

1 The Exploration Licence Application is sited on part of the northeast margin of the Gawler Craton, where it abuts the Peake and Denison inlier. However, the nature of the Gawler Craton here is not known with certainty (see for example, Figure 3 in Rogers and Freeman,

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1996), but it is likely to be composed of a complex mixture of quartz-feldspar-biotite gneiss, amphibole-plagioclase granofels (amphibolite), and schist. This unit is likely to contain the Tidnamurka Volcanics, potentially favourable host rocks for iron oxide copper gold mineralisation. However, it is not known if temporal correlatives of the Gawler Range Volcanics and the Hiltaba Granite Supersuite occur. There are no correlatives of the exposed parts of the Gawler Craton rocks in the Peake and Denison Inlier, but the intense iron oxide copper gold style of alteration in areas just east of the Peake and Denison Inlier indicate that correlatives of the Gawler Range Volcanics or the Hiltaba Supersuite could occur in the adjacent concealed parts.

2 The Gawler Craton and the rocks of the Peake and Denison Inlier are concealed by Mesozoic, Palaeozoic, and Neoproterozoic rocks of the Arckaringa Basin, Borthanna Trough, Officer Basin, and northern extensions of the Adelaide Geosyncline. These rocks have aggregate thicknesses ranging from one hundred metres or so, in the far SE corner of the exploration licence application, to 3000m in the central west and northwest parts of the licence application near Oodnadatta. The depth to magnetic source modelling shows that within the magnetically active areas of the licence, depths of cover are greater than 500m (**Figures 3**, **4**, and **5; and the tectonic sketch map of the Oodnadatta Sheet in the separate folder**).

3 The area of the Exploration Licence Application is characterised by a near-complete cover of Cainozoic rocks comprising lacustrine limestone, fluviatile sands and gravels and aeolian sand.

The regional setting of the licence is illustrated in **Figure 1**, where it is shown as the small square on the northern end of the Peake and Denison Inlier. The geology of the area is dominated by a set of NNW-trending faults bounding local extensional basins containing Mesoproterozoic, Neoproterozoic, and younger rocks (see for example, the structural sketch accompanying the Warrina 1:250,000 Geological Map (SH 53-3). These faults also bound the Peake and Denison inlier, and have clearly controlled the emplacement of Lower Palaeozoic displacive diapir rocks in the inlier. However, there is no compelling evidence that the faults are older than this. For example, strike of the meta-igneous and meta-sedimentary rocks within the Peake Metamorphics (with an age of 1.78-1.75 Ga), evidenced by the ENE-trending magnetic highs within the Peake and Denison Inlier, are truncated by the faults.

The potential field data (**Figure 3**) show the major NNW and NW trending faults very well. The locations of the exploration licence applications are shown in this figure as three adjoining open rectangles. The potential field data also show that the northern parts of these faults are associated with prominent linear magnetic anomalies where they are concealed. Where the faults are exposed in the northeastern exposed parts of the Peake and Denison Inlier, the faults contain iron oxide-bearing quartz vein sets with disseminated copper sulphides. The magnetic potential field data indicate that such copper mineralisation is associated with prominent linear magnetic anomalies along the faults, which suggests therefore that the copper mineralisation is associated with magnetite alteration (**Figure 4**).

The copper mineralisation must be younger than the Neoproterozoic, because it apparently overprints peak metamorphic fabrics. Nevertheless, it is regarded as being of potential interest because it is extensively developed along the faults, and because concealed extensions of the faults

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into the southern part of the exploration licence display well defined magnetic anomalies. The association of the north-north west trending faults with higher amplitude magnetic anomalies is particularly evident in **Figure 4**. The copper mineralisation is within the area shown with a small circle in the Figure. The potential field data in **Figures 3** and **4** also show that there is a regional scale 045° trending zone of magnetic and gravity anomalies through the northeast diagonal of the principal exploration licence. The orientation of the zone is relevant to the occurrence of iron oxide copper gold mineralisation, as it may represent the trace of one member of the family of 045° trending faults associated with iron oxide copper gold mineralisation elsewhere in the Gawler Craton, as illustrated in **Figure 2**. 045° trending faults are also described in the region as being younger than the NNW- trending and NW trending fault sets, but the size of the faults, their parallelism to the structural grain in the Peake Metamorphics and their evident control on rocks of Palaeoproterozoic and Mesoproterozoic age elsewhere on the Gawler Craton indicate that they are part of an early set of faults that likely controlled the extensional events associated with the emplacement of the Gawler Range Volcanics in the north east Gawler Craton, and with emplacement of the iron oxide copper gold mineralisation.

Data from numerous water bores, several stratigraphic drill holes, and a few mineral exploration drill holes within the area of the ELA (**see double clear overlay to the Oodnadatta Tectonic Sketch Map in the accompanying plan folder; and accompanying plans and related documents in the open file exploration data folder**), and modelling of depths of sources of key magnetic anomalies (**Figure 3**) show that prospective basement in most parts of ELA is too deep to be of immediate interest, being greater than depths of 500m.

Within the ELA, the analysis shows there are three principal magnetic and gravity anomalies of interest. The anomalies are numbered 1 (Allandale), 2 (Borthanna) and 3 (Algebuckina). Their AMG co-ordinates are listed in the following table.

Area of Interest	Depth to Source	Northings	Eastings
Allandale (1)	Shallowest 530m	6928000; 6932000	552000; 557000
Borthanna (2)	Shallowest 590m	6913000; 6918000	559000; 563000
Algebuckina (3)	Greater than 730m	6903000; 6906000	562000; 565000

The anomalies of interest are illustrated within the labelled red rectangle in **Figure 5**. None of the specific anomalies of interest have been tested by recorded prior exploration; and reasons for their selection are summarised in the following Table.

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Area of Interest	Reasons for Definition of Area
1:Allandale	Partly coincident with –6 mgal Bouguer anomaly which has a long axis trending north easterly (note station spacing may be generating this trend). The gravity anomaly is on a major northeast striking alignment defined by semi-coincident longer wavelength gravity and magnetic anomalies. Such regional scale trends are apparent defining the NW and SE margins of the Mt Woods Inlier, with both margins hosting iron oxide copper gold mineralisation. A comparable trend also defines the NW margin of the "domain" hosting the Olympic Dam deposit. These NE-trending zones have been interpreted to be the traces of major faults that probably played a major role in the genesis of the iron oxide copper gold deposits. The Bouguer anomaly is associated with a suite of complex magnetic anomalies on its NW margin. The area of interest includes the peak of the gravity anomaly and an adjacent EW trending magnetic anomaly. However, the depth to the source of the magnetic anomaly is greater than 530m The nearest drill hole is the Allandale water bore (2, PIRSA Plan 6042), which terminated in cover sequence rocks at a depth of 381m, and a minerals drill hole terminate in cover rocks at a depth f 261m (36 (PIRSA Plan 6042). The anomaly is thought to represent hematite-rich mineralisation, with magnetite-rich mineralisation adjacent. It is very clear, however, that a large component of the anomaly will be caused by fault bound basement highs here. PIRSA Plan 6042 is in the set of plans in the document appendix. (for additional information, see Memorandum by F Lindeman dated 18th March, 2002).
2:Borthanna	Coincident -6 mgal Bouguer anomaly and a discrete magnetic anomaly with a predominant north trend. The anomaly is possibly on a second order NE-trending fault zone which is rather cryptic, but which probably defines the north eastern end of the principal basement ridge comprising the Peake and Denison Inlier The anomaly may also be coincident with the projection of one of the major NW-trending faults within the Peake and Denison Inier (see Figure 3). The anomaly has a complex configuration, but has an interpreted depth to source greater than 590m. The nearest drill holes are Borthanna, a minerals drill hole which terminated in cover sequence at 299m (37 on PIRSA Plan 6042); and STD 31, which terminated in apparent basement quartzite at 182m (39 on PIRSA Plan 6042). It is important to note, however, the quartzite may be part of the Officer Basin sequence, which suggests that the anomaly is deeper, in accord with its interpreted depth to source (for additional information see Memorandum by F Lindeman dated 12th March, 2002).
3: Algebuckina	A coincident –4 mgal Bouguer anomaly and a discrete magnetic anomaly at the northern end of a basement ridge comprising part of the Peake and Denison Inlier. The anomaly is part of a magnetically very active complex on the end of the interpreted basement ridge here. It is likely to be sited on or near the intersection of the major NW-trending faults which bound the basement ridge comprising the Peake and Dension Inlier. Both of the faults here display apparent magnetite-enrichment, and both bound the Peake Metamorphics and the Tidnamurkana Volcanics, which are likely to represent favourable hosts for iron oxide copper gold mineralisation. Magnetite-enrichment appears to be associated with the copper mineralisation within faults of comparable orientation that bound the northeastern exposed margin of the Peake Metamorphics, at the Mt Kington, Printa and Copper Top Hill prospects in the Peake and Denison Range. However, the amplitude of the magnetic anomalies along the faults extending SE from the Algebuckina area of interest is much greater, suggesting therefore, that potential for copper mineralisation in the area of interest is likely to be very good. Mineralisation may have iron oxide copper gold affinities, although it could be younger than iron oxide copper gold mineralisation in the Stuart Shelf area of the Gawler Craton. Unfortunately, the depth to the source of the main anomaly here is greater than 730m, although a small anomaly SE of the main anomaly is shallower, although it will be of lesser interest (see text) (for additional information, see Memorandum by F Lindeman dated 12th March, 2002).

The exposed parts of the Peake and Denison Inlier bound an area of intense albite-magnetite-actinolite-chlorite and related alteration of iron oxide copper gold affinities under shallow cover to the east of the Inlier. This is evident as the high amplitude magnetic anomalies north east of the circle in **Figure 4**. The association of the Inlier with such alteration here therefore suggests that the area of high amplitude anomalies about the Allandale area of interest (1 in the Table) likely represents similar alteration. The association of the high amplitude anomalies about the Allandale area of interest, however, with a major NE-trending zone of magnetic and gravity anomalies, however, suggests that the Allandale area of interest is likely to be more interesting as a potential host for iron oxide copper gold mineralisation. Unfortunately, the modelled depths to sources of the principal magnetic anomalies here indicate that their sources are mostly greater than 500m depths, although a small magnetic anomaly SE of the main magnetic anomaly at Algebuckina (3) is at an exploration friendly depth.

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At Algebuckina, the main magnetic and gravity anomaly, centred approximately on 563200E, 6904500N has an interpreted depth to source of 730m, but the second and much smaller response, centred at 564800E, 6903200N, is likely to be at an exploration favourable depth (see Memorandum by F Lindeman dated 12th March, 2002). It may represent a body with dimensions 920m x 320m x 1060m, and, depending how the magnetic gradient is removed, may represent a source with a top between 40 and 360m depth. As it is close to the NW end of one of the major NNW trending faults displaying magnetite-additive alteration possibly indicative of copper mineralisation, it represents a low priority play for an exploration test. Note that the magnetic anomaly here, although weaker and smaller than the main anomaly, is stronger than the magnetic response associated with the known copper mineralisation in the NNW trending faults in the exposed part of the Peake and Denison "Domain". The small anomaly, evident in **Figure 4** here, and also highlighted in Figure NR1 in the accompanying map folder, is nevertheless still close to an apparently favourable structural position in which the main magnetic anomaly occurs. If mineralisation of interest is found in the test program, then additional areas along strike to the SE would be apparent, although these are currently outside ground held by ReLODE Ltd. Note that the northern end of another magnetic anomaly projecting into the far SE corner of the ELA is not likely to be of interest as it does not appear to be associated with a gravity anomaly, as is the small magnetic anomaly considered here.

The areas of interest, particularly the apparently shallow magnetic anomaly centred on 564800E, 6903200N at Algebuckina should be subjected to a test program that is commensurate with their depths. The test program should therefore be as follows:

1 If drilling of targets at such depths is warranted, then grid-based gravity and magnetic survey to precisely locate the peaks of the magnetic and gravity anomalies in the areas of interest is recommended. It is suggested that the gravity stations be on 500m centres, and be aimed at definition of gravity anomalies within and adjacent to the magnetic anomalies in the areas of interest. The areas in which the surveys should be performed are shown on the plans of the potential field data in the accompanying plan folder (Figures NR1, 2, 3). For the small anomaly SE of the main anomaly at Algebuckina, the gravity data generated by the detailed "T" shaped grid in the area should be located and utilised in the design of the field program here.

2 If the ground geophysical programs generate anomalies that are deemed worthy of testing, then the source of the gravity anomalies should be tested with a single drill hole terminating at a maximum depth of 50 m in fresh bedrock likely to be part of the source of the gravity anomaly

Partial leach geochemical testing of the area of the small magnetic anomaly centred on 564800E, 6903200N in area of interest (3: Algebuckina), should also be tried once the geophysical program is complete. Partial leach geochemical anomalies over the faults would be additional target defining devices in the program here. Even very small anomalies in areas containing the surface projection of the NNW-trending fault here would be regarded as sufficiently encouraging to proceed to the drill stage.

Conclusion

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The appraisal described here is a preliminary one only, although it has utilised all prior exploration data that is currently publicly available. Of the areas of interest defined, the small anomaly at Algebuckina is ranked as being of most interest, firstly because of its apparently shallow depth, and secondly, because it is on a major NNW trending fault displaying magnetite-additive alteration, reasonably close to an intersection with another major fault displaying magnetite-additive alteration.

The report on the appraisal of the Maralinga ELAs will follow once data on depths to sources of the magnetic anomalies defined as being of interest in the current study have been received from PIRSA.

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Disclaimer

Douglas Haynes, of Douglas Haynes Discovery Pty Ltd, has made the description, interpretations, and recommendations in this report in good faith in the work, which was performed between Monday, 18th February, and Wednesday 27th February 2002. The descriptions, interpretations, and recommendations reflect the writer's best professional judgement, but like all such geological judgements, can only be read as having uncertain or unpredictable outcomes rather than as established fact.

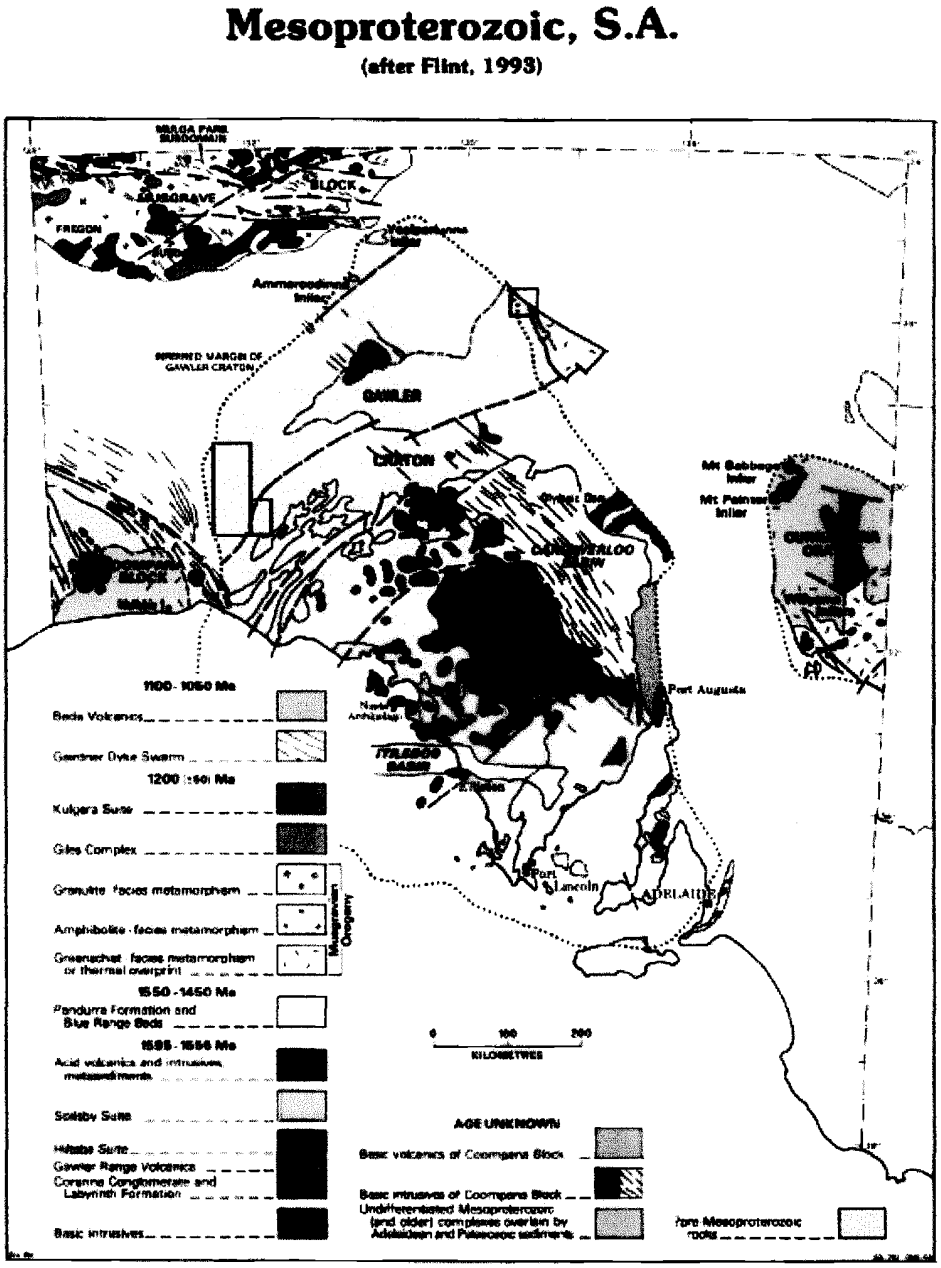
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Figure 1: Location of the Neales River ELA in relation to the regional geology. The Neales River ELA is illustrated as the small square in the NE. The ELA is sited at the NW end of the Peake and Denison "Domain", on the NE margin of the Gawler Craton.



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Figure 2: An illustration of the relation of the Olympic Dam deposit to the set of 045° trending faults in the NE Gawler Craton. Note also the relation of the Mt Gunson copper deposit, which is not an iron oxide copper gold style deposit, to faults of the same set. A smaller iron oxide copper gold deposit at Wirrda Well, on the south side of the triangular "domain" hosting the Olympic Dam deposit, is also associated with a 045° trending fault.



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Figure 3, illustrating the Neales River ELA in relation to the potential field data, which is a first vertical derivative of the gravity (pseudocolour) and the TMI signature (greyscale). The licence is shown as the open rectangles. The circles enclose anomalies that are likely to represent possible plays for iron oxide copper gold mineralisation (see text). 1 is Allandale, 2 Borthanna, and 3 Algebuckina. The two zones of magnetically complex domains in the SE part are the Peake Metamorphics, of the Peake and Denison "Domain". They are segmented by a set of NNW trending faults that display magnetite-additive alteration (see text). The prominent 045° trending zone of magnetic and gravity anomalies is distinctive, and is likely to represent one of the major faults of this trend in the NE Gawler Craton. Such faults are associated with iron oxide copper gold mineralisation elsewhere on the Gawler Craton (see text). The small magnetic anomaly just touching the SE sector of the circle at the Algebuckina area of interest (3) is of potential interest as well, because it is likely to represent a shallow source in a structurally favourable position (see text).



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Figure 4, illustrating the Neales River ELA in relation to the Total Magnetic Intensity signature (TMI). The area of weak copper mineralisation in the exposed Peake Metamorphics is within the circle SE of the ELA. Note that it occurs on one of the NW-trending faults, which display magnetite-additive alteration along strike to the NW. The relatively strong linear magnetic anomalies along the set of NW and NNW trending faults on the SW side of the Peake and Denison "Domain" could indicate that the faults have been subjected to magnetite-additive alteration, suggesting therefore that their intersection ("3" in Figure 3) is of interest for mineralisation likely to represent a variation on the iron oxide copper gold theme.

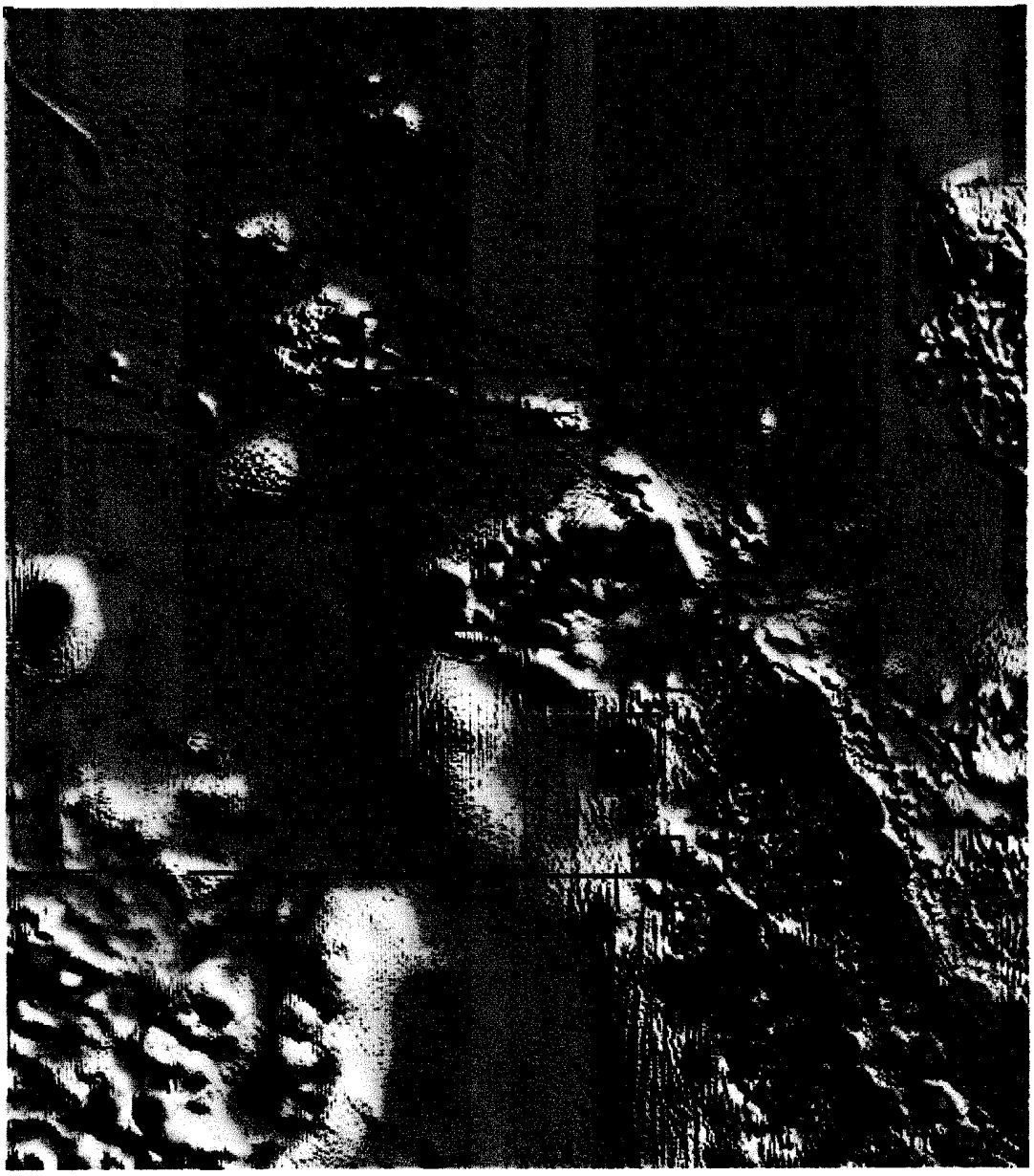


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Figure 5, illustrating the areas of interest which were subjected to the geophysical modelling, and which are described in the memoranda by F Lindeman. The image is the analytic signal of the TMI. These coincide with and overlap the geologically most interesting anomalies illustrated in Figure 3. The modelling showed that all of the principal anomalies in the areas of interest were too deep to represent likely targets of interest, although a small magnetic anomaly SE of the principal anomaly in the most SE of the areas subjected to the geophysical modelling is likely to be at an exploration friendly depth (see text). The areas are Allandale (1) (NW), Borthanna (2) (central of the three areas) and Algebuckina (3) (SE of the three areas)



ALTERATION/METAMORPHISM:

The preservation of relic igneous textures confirms that the metamorphic grade is low with replacement of original clinopyroxene by actinolite and the presence of albite consistent with a greenschist facies regime. Progressive Mg/Fe chlorite – epidote alteration and the development of distinctive vughs infilled by Fe/Mg chlorite – actinolite – carbonate would appear to represent ongoing retrograde alteration – possibly propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The preservation of original subophitic textures after original clinopyroxene in a matrix dominated by lathlike plagioclase – albite plus interstitial magnetite is consistent with a pyroxene diorite to dolerite classification. Hydrothermal propylitic alteration may have accompanied retrograde alteration of the assemblage and is associated with the development of distinctive vughs in a high level intrusive host. Trace pyrite also occurs within the vughs.

Appendix 2

Magnetic Modelling – ReLODE Oodnadatta – Algebuckina/Borthanna
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RICHMOND Victoria 3121
Tel: 03 9421 1895
email: flindeman@beyondtech.net

Date: 18th March, 2002

Memo to: Douglas Haynes
From: Frank Lindeman

CC Robin Morritt, ReLODE Ltd

Subject: Magnetic Modelling – ReLODE Ltd Oodnadatta EL Application
- Allandale Target

Summary:
Depths to magnetic sources via magnetic modelling have been calculated for the Allandale area in the Oodnadatta EL application. Your email dated February 25th, 2002 gave the approximate outlines of this area on which this work was to be completed. Unfortunately all depths to magnetic sources for the three magnetic anomalies in the general Allandale area are deeper than 526m, and far too deep to explore.

Aeromagnetic Data:

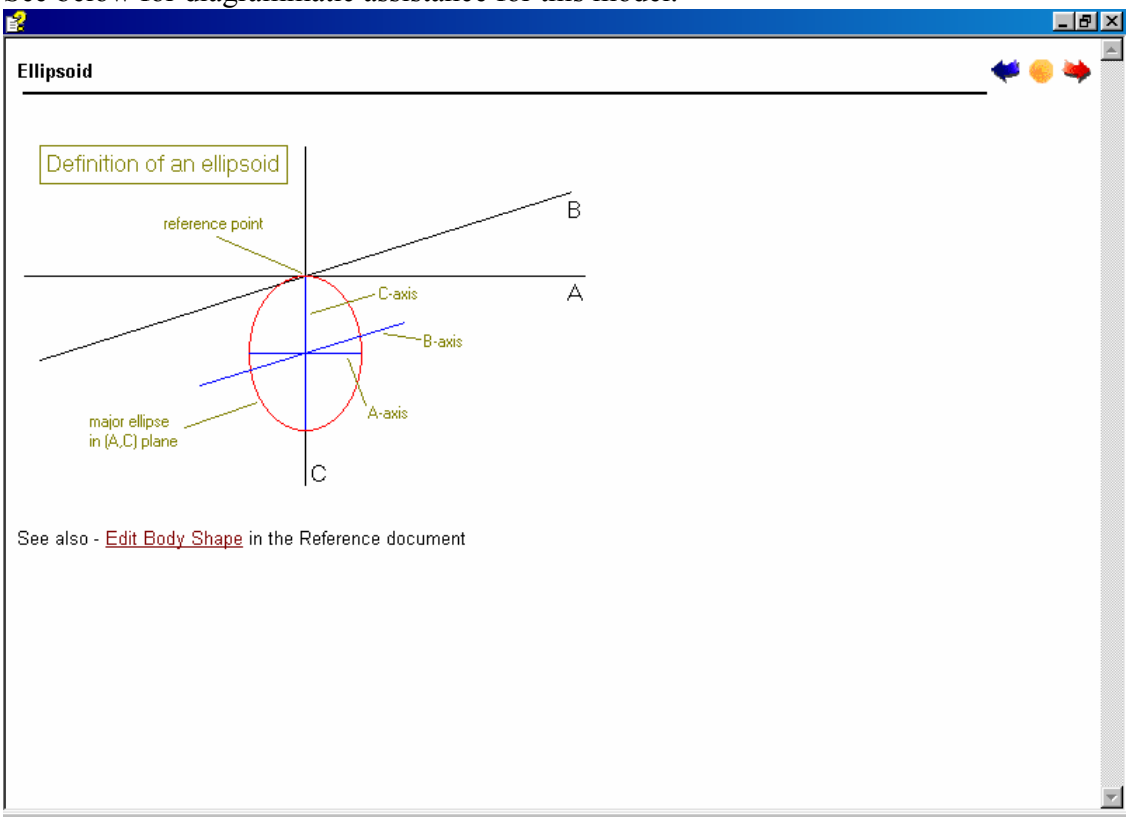
The Allandale area, the northern-most of three target areas, is covered by a PIRSA aeromagnetic survey, *SAE_**E3,*** which utilized 300m NS line spacing and a flying height of 80m.
Figure 1 shows the above survey and the location of the ReLODE Ltd EL application with respect to this survey and the survey 83 SA05. While the Borthanna and Algebuckina areas are covered by the latter survey, and have been reported on separately, the Allandale area is covered by E3, the original located data for which being inadvertently excluded by PIRSA when the other data were provided. *This PIRSA delay is totally responsible for the delay in the interpretation of the Allandale area.*

Targetting:

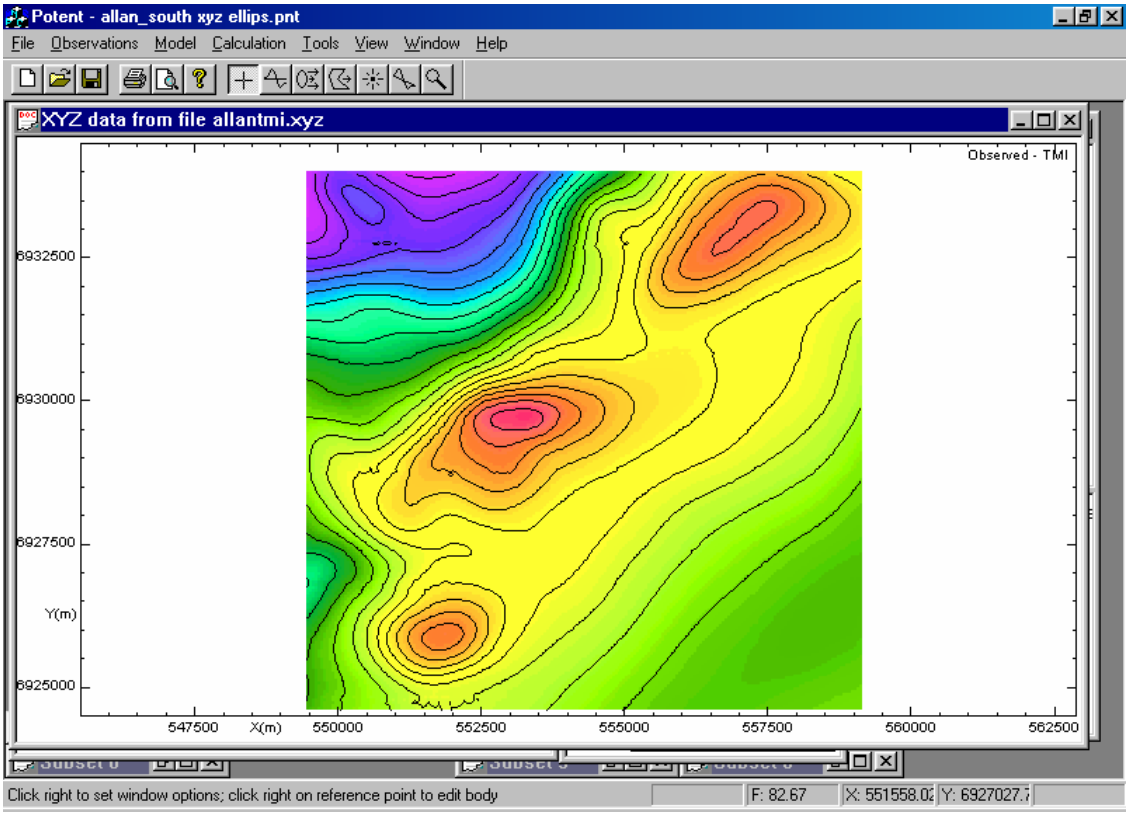
For the purposes of the initial targetting exercise, which was carried out by Douglas Haynes, the magnetic and gravity data were processed and presented as both hard copy prints at usually 1:250K scale (and occasionally at 1:100K) and as tiff images which were supplied via email. Presentations included TMI (+ shade), 1VD, analytic signal of the TMI and various combinations of the Bouguer gravity and magnetics.
As a result of this targetting, three areas were selected for which depths to magnetic sources were requested**.** **Figure 2** shows the TMI magnetic data and the location of the three areas, the northern one of which is Allandale.

Modelling Results:
The magnetic anomalies on which depth calculations were required were defined principally by the analytic signal. This product isolates the shallow magnetic responses from the deeper ones and also places the response directly above the location of the source. This is ideal for interpretation of magnetic data from low magnetic latitudes where the peak of the TMI anomalies are somewhat displaced from the location of the source and when effects of deeper magnetic responses can mask the effects of the shallower anomalies. However for modeling purposes using the POTENT package, the total magnetic intensity is used. **Figure 3** shows the analytic signal and the three areas of interest which include Allandale to the north.

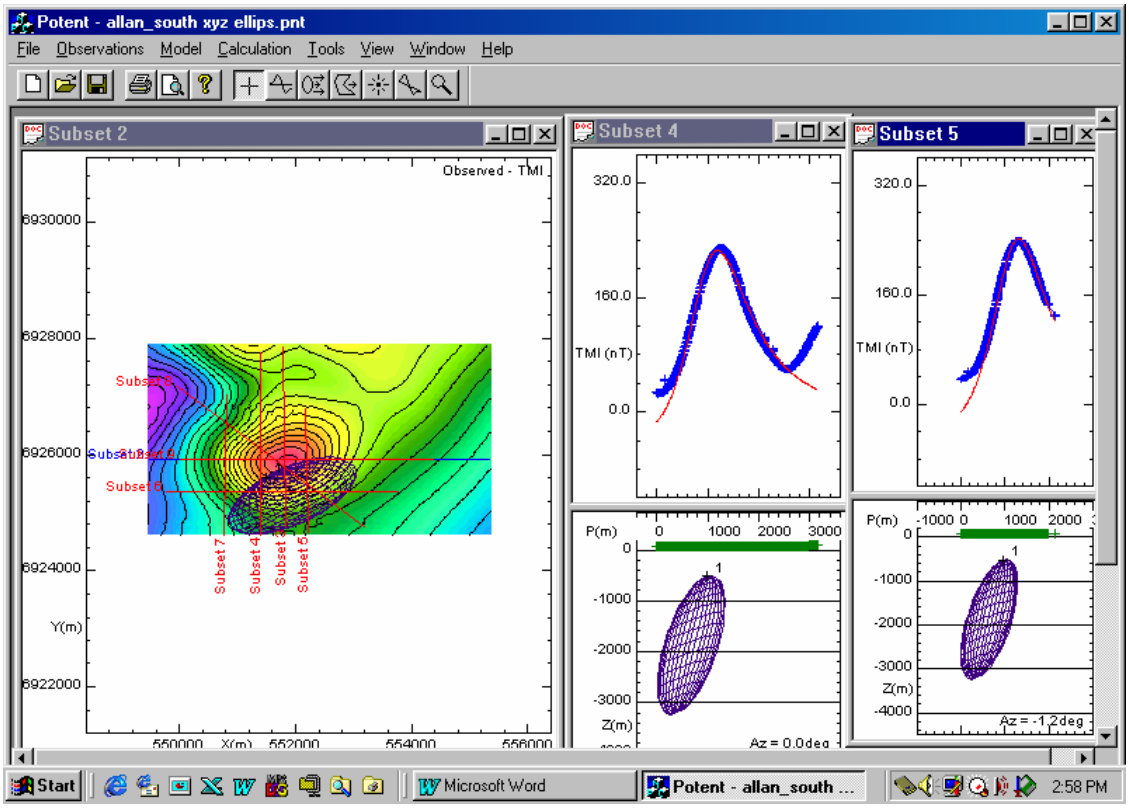
Note: For the purposes of this modelling, the ellipsoid model has usually been chosen. See below for diagrammatic assistance for this model.



Magnetics
The magnetic data shows that there is one main TMI response within the co-ordinate limits you gave, and two other responses just outside these co-ordinates, one to the NE and the other to the south-**figure 4.** The TMI response for the main anomaly is centred at approximately 553180E, 6929750N. The southern and much smaller response, which is centred at 551730E, 6926010N, was selected for modelling because it appeared to have the shallowest source of all the magnetic anomalies within the Allandale windowed data set. The response to the NE, but which basically lies outside the targets limits you supplied, is centred at 557240E, 6933300N-also see below.



a) Southern Anomaly.
The ellipsoid model for this anomaly is an excellent fit although the definition of the regional response in this quite complex magnetics area was a little tedious. The magnetic source body has dimensions of 2356m x 280m, a depth extent of 2914m, a magnetic susceptibility of 0.18 SI units BUT unfortunately a depth to top of ~526m**. As predicted this is the shallowest source within this target area.**
Figure 5 shows the TMI data and the position of the model. Also see the following figure in the text.

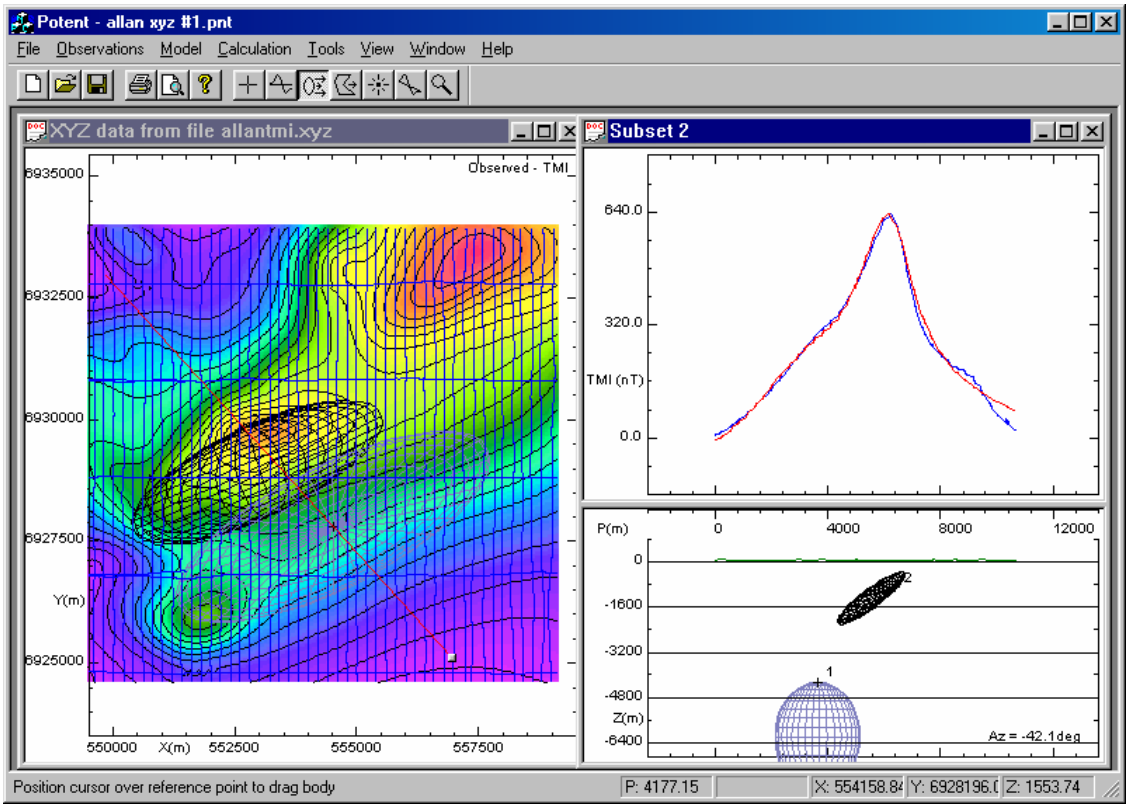


b) Main Anomaly

Examination of this anomaly shows that this response is comprised of both deep and shallow (relatively) components. For the modelling exercise, a model for the complete and complex magnetic signature has not been determined but rather models have been selected to simulate the magnetic response *for the central and shallowest part of this response only.* The deeper magnetic source has been modelled with an ellipsoid, which has depth to top of 3800m and a susceptibility of 0.51 SI. The shallower magnetic source has been modelled with an ellipsoid body with dimensions of 2446m x 500m x 2026m depth extent, a magnetic susceptibility of 0.12 SI and a depth to top of 900m.

A good fit between observed and calculated data was obtained using a prism rather than an ellipsoid for the shallower body. The depth to top for this is 870 with a susceptibility of 0.19 SI, both values similar to those recorded for the ellipsoid.

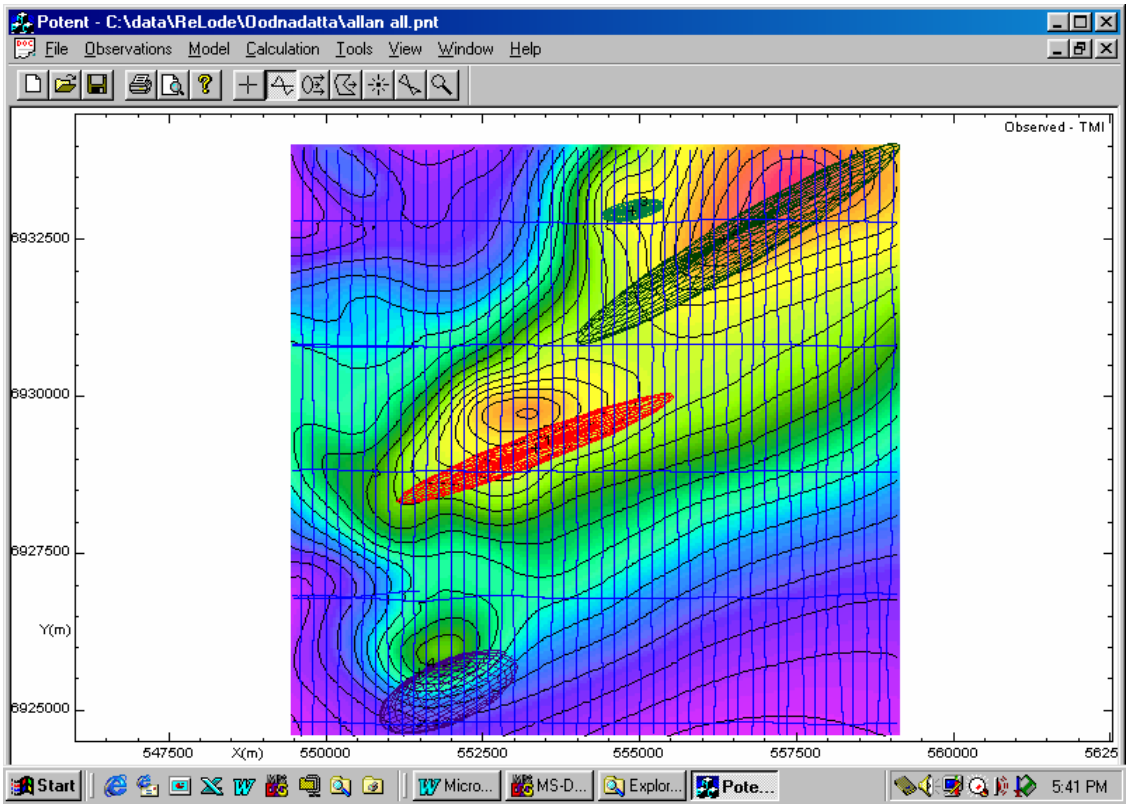
In any case, both depth estimates for the shallower body indicate that the source is far too deep to explore.



c) NE Anomaly

This magnetic response, like the main anomaly described above, is comprised of a deep and shallower magnetic component. Once the deep "regional" response is simulated by a deep source, then the shallow source can be represented by an ellipsoid with a magnetic susceptibility of 0.125 SI and a depth to top of 1100m!!

The following figure in the text shows this model, as well as all other models interpreted for this area.



d) North Central Anomaly

Located just to the west of the area discussed above, centred @ 554900E, 6933075N a small anomaly can be detected within the magnetic contours-see above image, which has the positions all relevant magnetic sources. The magnetic source to this anomaly is quite small but still has a depth to top of ~700m and a susceptibility of 0.21 SI. See above figure.

Gravity

It is interesting to note that for the Allandale target, unlike for the Borthanna and Algebuckina targets, no specific gravity surveys have been completed, suggesting that previous explorers might well have been put off by the excessive depths to magnetic sources in this area.

The gravity data shows that the Allandale area is located over a small localised Bouguer gravity high close to the NW termination of the north-west trending Bouguer gravity anomaly on which both the Borthanna and Algebuckina target areas are also located.

Conclusions:

The magnetic modelling completed at the Allandale target area, as defined by yourself in the geological targetting phase, has indicated that the sources are far too deep to explore. The shallowest of four magnetic sources was interpreted from the smaller discrete response to the south and which was estimated at a depth of **526m**.

Frank Lindeman

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Date: 12th Jan, 2002

Memo to: Douglas Haynes
From: Frank Lindeman

CC Robin Morritt, ReLODE Ltd

Subject: Magnetic Modelling – ReLODE Ltd Oodnadatta EL Application
- Algebuckina and Borthanna Targets

Summary:
Depths to magnetic sources via magnetic modelling have been calculated for the two separate areas in the Oodnadatta EL application. Your email dated February 25th, 2002 gave the approximate outlines of three areas known (from north to south) as Allandale, Borthanna and Algebuckina on which this work was completed. Due to the fact that the Allandale target is covered by a different survey to that which covers the other two, and the located data for that survey has not yet been received from PIRSA, the results of magnetic modelling for only the Algebuckina and Borthanna areas has been completed. Unfortunately all depths to magnetic sources for the Borthanna area are deeper than 588m, and far too deep to explore. Although the principal magnetic response at Algebuckina has a source estimated at a depth of 730m, a smaller anomaly to the SE of the main response appears to be quite shallow (ie <300m) and well within exploration depths if it maintains geological interest.

Aeromagnetic Data:
All three areas have been flown by PIRSA surveys. The Allandale area, the northern-most of the three, is covered by an aeromagnetic survey, *SAE_**E3,*** which utilized a 300m line spacing and a flying height of 80m. The southern two areas are covered by a 1982 survey, the archive known as *74vw_**83SA05*** and which used 300m NS line spacing and a flying height of 80m.
Figure 1 shows the two surveys discussed above, the location of the ReLODE Ltd EL application with respect to these surveys, and the three areas of interest. For the purposes of modelling, the original located line data was retrieved from PIRSA.

Targetting:

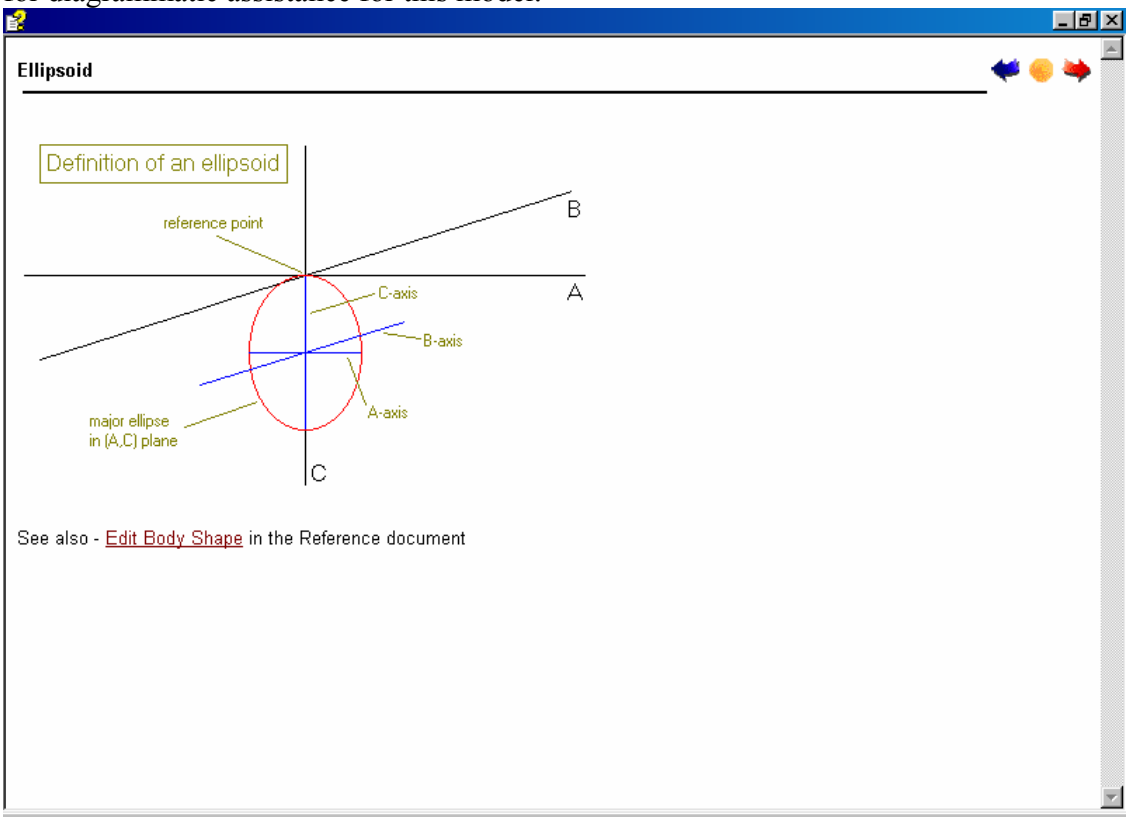
For the purposes of the initial targetting exercise, which was carried out by Douglas Haynes, the magnetic and gravity data were processed and presented as both hard copy prints at usually 1:250K scale (and occasionally at 1:100K) and as tiff images which were

supplied via email. Presentations included TMI (+ shade), 1VD, analytic signal of the TMI and various combinations of the Bouguer gravity and magnetics.
As a result of this targetting, the three areas were selected for which depths to magnetic sources were requested**.** **Figure 2** shows the TMI magnetic data and the location of the three areas.

Modelling Results:

The magnetic anomalies on which depth calculations were required were defined principally by the analytic signal. This product isolates the shallow magnetic responses from the deeper ones and also places the response directly above the location of the source. This is ideal for interpretation of magnetic data from low magnetic latitudes where the peak of the TMI anomalies are somewhat displaced from the location of the source and when effects of deeper magnetic responses can mask the effects of the shallower anomalies. However for modeling purposes using the POTENT package, the total magnetic intensity is used. **Figure 3** shows the analytic signal and the three areas of interest.

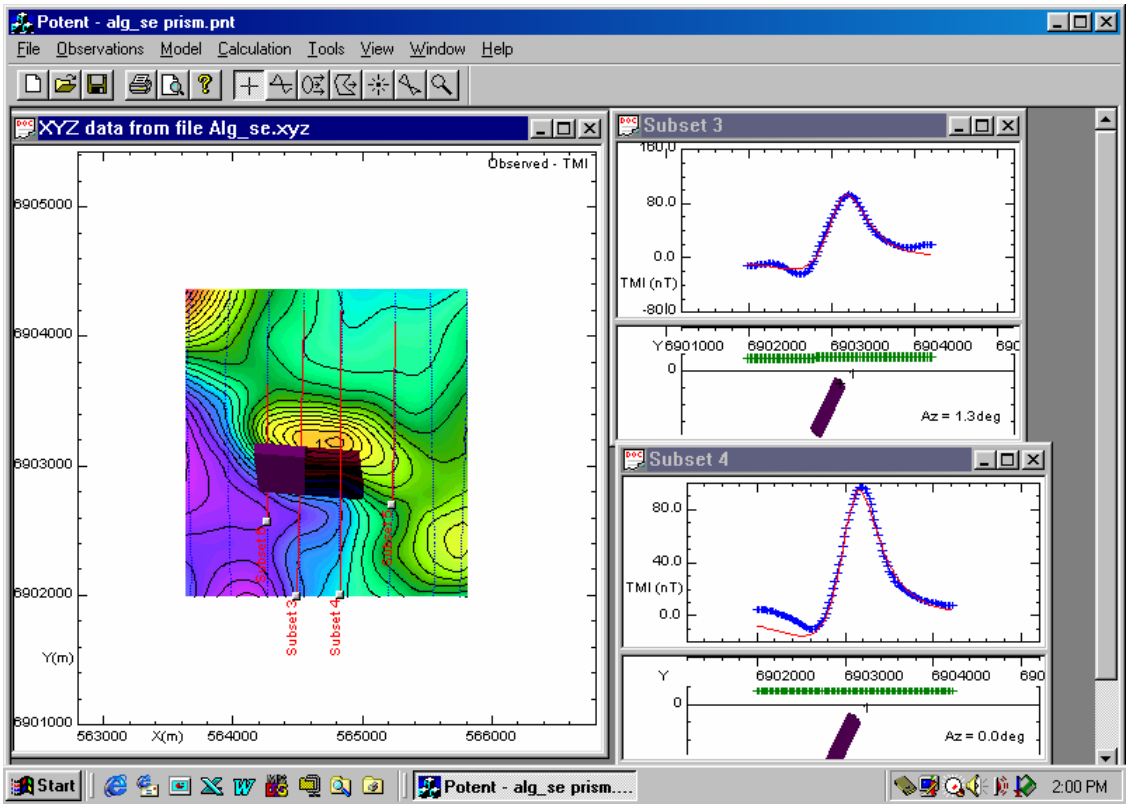
Note: For the purposes of this modelling, the ellipsoid model has been chosen. See below for diagrammatic assistance for this model.



Algebuckina:
Magnetics

In your request for modelling results and depths to magnetic sources you stated that in your opinion the depths to magnetic bodies in this area were shallower here than at the other two.
The magnetic data shows that there are two main sources within the co-ordinate limits you gave. The TMI for the most northern and the largest is centred at approximately 563200E, 6904500N. The second and much smaller response is centred at 564800E, 6903200N. This anomaly is called Algebuckina SE and is discussed later.
The ellipsoid model for the larger anomaly is an excellent fit. The body has large dimensions of 1200m x 600m, a depth extent of 3200m, a strong magnetic susceptibility of 0.33 SI units BUT unfortunately a depth to top of ~730m**. Figure 4** shows the TMI data and the position of the model.

The smaller magnetic anomaly, which is effectively traversed by really only two of the 300m spaced NS aeromagnetic lines, has also been modelled with the following results: ellipsoid body dimensions of 920m x 320m x 1060m depth extent, a low magnetic susceptibility of 0.02 SI and a depth to top of between 40m and 360m, depending on how the magnetic gradient in the area is removed - **figure 5.** An excellent fit between observed and calculated data was obtained using a prism rather than an ellipsoid. The depth to top for this is 156m with a susceptibility of 0.06 SI-see below. In any case, although relatively small, the source of this anomaly appears to be within the exploration depth limitations set by ReLODE Ltd, and if it retains its geoscientific interest with



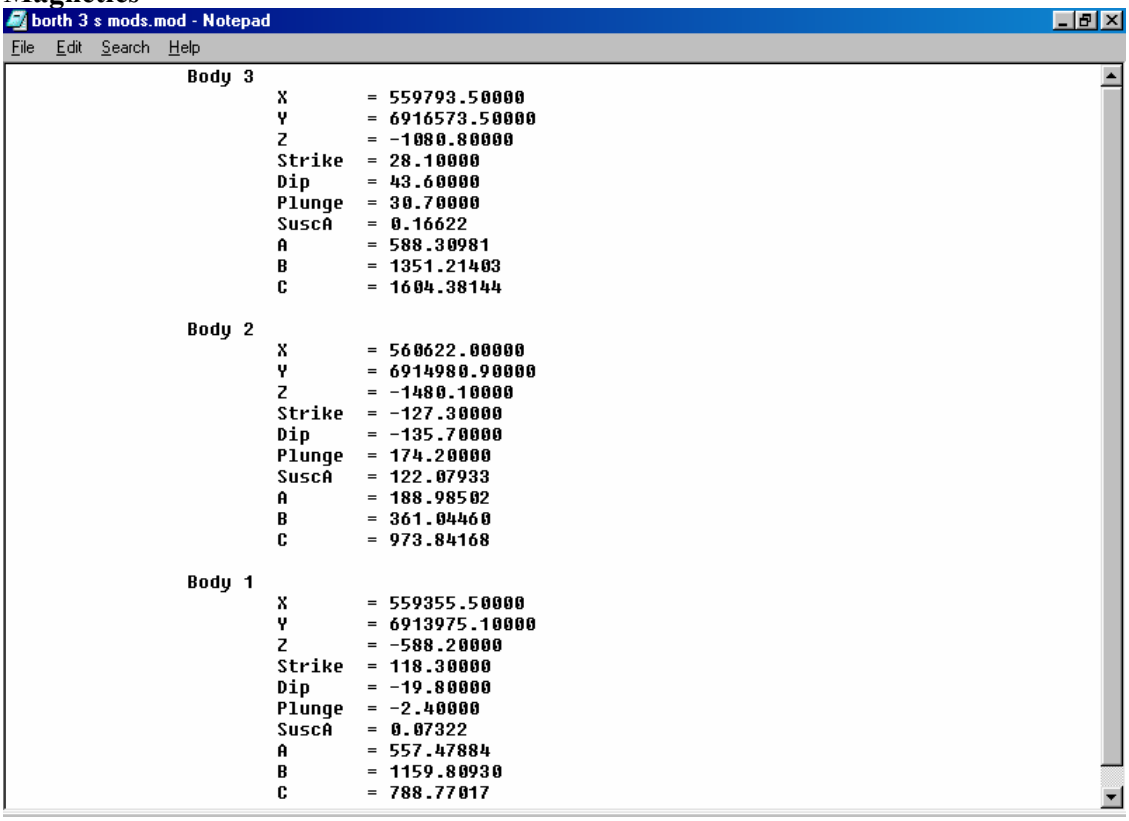
respect to geology and structure, is therefore a candidate for follow-up exploration.

Gravity

It is interesting to note that the Algebuckina target area is the ONLY area within the complete Oodnadatta data set shown where detailed gravity data has been indicated – **figure 6.** Utilizing a grid oriented roughly NE, 9 lines spaced between 400m and 1000m with a station spacing of 200m have been completed. This grid appears as a NW trending "T-shape" on the map with the longest of these traverses being the most north westerly. The gravity data shows that the Algebuckina areas are located at the NW termination or gradient of a north-west trending Bouguer gravity anomaly. It would be of particular interest to locate the company reports, which discuss the results of this survey and its possible implications for the ReLODE exploration.

Borthanna:

Magnetics



Details of the three models interpreted for the Borthanna area are shown in the above table. The TMI data and the three POTENT models for this target are shown in plan form in **figure 7.** The modelling was completed on the actual located data in preference to working with the gridded data.

As suggested by your initial geological investigations, the depths to the top of all 3 models are quite deep, with the shallowest at 588 metres! Although the magnetic susceptibilities vary from moderate to extremely high, these depths would appear to preclude any serious thoughts of exploration.

Gravity

The target area is located on the western gradient if a NNW trending Bouguer gravity ridge which appears to also relate to the Allandale area to the north and the Algebuckina area to the south. **Figure 6** shows that a single gravity line has been read over this project area. Its approximate co-ordinate is 6914300N and the station interval is 250m. A small anomaly, as described by a deflection in a single contour directly over the Borthanna area, suggests that this line has recorded anomalous response. As with the Algebuckina area above, it would be convenient to locate the company reports, which describe this work and its possible implications for the ReLODE investigations.

Conclusions:

The magnetic modelling completed at the Borthanna and Algebuckina target areas, as defined by yourself, has indicated that generally at Borthanna and Algebuckina the sources are far too deep to explore. However at Algebuckina there is a smaller magnetic response of the south east of the main anomaly, which does appear to be sourced from exploration friendly depths. Prior to planning possible exploration strategies, the geological significance of the small Algebuckina response AND the Allandale modelling should be completed.

Frank Lindeman

Appendix 3

Petrographic and SEM Study of Core Samples from Drill Holes
TNA001-002
Pathfinder Exploration Pty Ltd.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 1

TYPE: Core - TNA 001 108.0 - 108.08 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted feldspar and amphibole phyric diorite containing trace residual leucoxene. The sample is slightly magnetic and reacts very weakly with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Pervasively propylitically altered (carbonate – Fe/Mg chlorite – sericite – epidote) porphyritic pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	75%
Carbonate - dolomite	13%
Sericite	2%
Fe/Mg chlorite	8%
Epidote	1%
Leucoxene	tr
Opaques - magnetite	1%
- limonite/goethite	tr

TEXTURE:

Medium grained, equant phenocrysts have been pseudomorphed by carbonate – dolomite and have preserved a subophitic texture in an altered igneous matrix. The subophitic texture suggests a probable clinopyroxene precursor. The matrix has preserved randomly oriented lathlike plagioclase associated with interstitial fibrous Fe/Mg chlorite representing an alteration phase. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. Fine anhedral epidote has also locally replaced plagioclase. A relic, ophitic igneous phase, possibly clinopyroxene occurring in the matrix, has been ubiquitously replaced by Fe/Mg chlorite as well as fine micritic carbonate aggregates. Fine, interstitial magnetite represents an accessory phase and has been locally replaced by limonite/goethite. Leucoxene has also replaced magnetite.

ALTERATION/METAMORPHISM:

Relic igneous textures have been preserved in an altered matrix and confirms an original, low metamorphic grade. Pervasive alteration to carbonate, Fe/Mg chlorite, sericite and minor epidote, along with hematite dusting, is consistent with propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The original subophitic phyric clinopyroxene has been pervasively replaced by carbonate in a matrix dominated by lathlike plagioclase associated with an original interstitial ferromagnesian phase and is consistent with a porphyritic pyroxene diorite to possible dolerite classification. The intensity of hydrothermal propylitic alteration and hematite dusting is noteworthy and provides evidence that the assemblage occurs peripherally to a larger alteration assemblage.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 2

TYPE: Core - TNA 001 110.42 - 110.46 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Porphyritic diorite or dolerite containing trace residual leucoxene. The matrix is hematite dusted. The sample is moderately magnetic and does not react with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (actinolite) and subsequently propylitically altered (carbonate – Fe/Mg chlorite – sericite – epidote) porphyritic pyroxene diorite to possible dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – andesine	66%	
Clinopyroxene – augite	8%	
Amphibole – tremolite/actinolite		4%
Sericite	2%	
Fe/Mg to Mg chlorite	12%	
Epidote	4%	
Carbonate – dolomite	2%	
Leucoxene	tr	
Opaques - magnetite	2%	

TEXTURE:

The overall texture is similar to Sample 1 although medium grained, equant clinopyroxene - augite phenocrysts have been preserved. The clinopyroxene phenocrysts have preserved a subophitic to ophitic texture and have been progressively replaced by tremolite/actinolite and fibrous Mg chlorite. The matrix has preserved randomly oriented lathlike plagioclase - andesine associated with the presence of occasional tabular plagioclase phenocrysts. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. A subordinate interstitial ferromagnesian phase has been pseudomorphed by dark fibrous Fe/Mg chlorite and residual Fe oxides (limonite or hematite). Anhedral epidote aggregates, closely associated with fibrous Fe/Mg chlorite and colloform – like carbonate aggregates or stringers have penetrated the matrix. Minor residual magnetite occurs as an interstitial phase.

ALTERATION/METAMORPHISM:

Like the previous sample, the preservation of relic igneous textures as well as original clinopyroxene phenocrysts confirms an original, low metamorphic grade. Progressive uralitisation of replacement of phyric clinopyroxene by tremolite/actinolite is consistent with a greenschist facies regime that has been progressively retrogressed by Mg chlorite as a retrograde event. Retrograde alteration appears to have been accompanied by sericitisation of plagioclase, the development of epidote – Fe/Mg chlorite – carbonate stringers in the matrix plus hematite dusting as a product of propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The preservation of original subophitic phyric clinopyroxene in a matrix dominated by lathlike plagioclase – andesine plus an interstitial ferromagnesian phase is consistent with a porphyritic pyroxene diorite to possible dolerite classification. The diorite classification is supported by the andesine (An_{35-40}) composition of the dominant feldspathic phase. Retrograde alteration of the assemblage is interpreted to have been accompanied by hydrothermal propylitic alteration and hematite dusting of the high level intrusive host. The well developed epidote – Fe/Mg chlorite – carbonate stringers are a thought to be a product of propylitic alteration.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 3

TYPE: Core - TNA 001 121.94 - 122.06 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic, chlorite and carbonate - filled amygdales occur in a fine grained basaltic or intermediate volcanic host. The matrix is hematite dusted. The sample is not obviously magnetic. The vughs react strongly with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Low grade metamorphosed and possibly propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	59%	
Amphibole – tremolite/actinolite		10%
Sericite	tr	
Mg chlorite	20%	
Epidote	3%	
Carbonate – calcite	2%	
Opaques - magnetite	2%	
hematite	4%	

TEXTURE:

Distinctive vughs or amygdales have been infilled by fibrous Mg chlorite intimately associated with bladed actinolite and micritic to fibrous carbonate. The matrix is dominated by randomly oriented fine grained plagioclase laths or microlites occurring in an altered mesostasis. The mesostasis, that locally includes an interstitial glassy component, has been replaced by patchy Mg chlorite, that is almost isotropic, as well as Fe oxides. Fine grained, fibrous to ragged actinolite occurs as part of the alteration assemblage and may have replaced original clinopyroxene. In reflected light, fine residual magnetite is dispersed through the matrix and is closely associated with red-coloured Fe oxides (hematite).

ALTERATION/METAMORPHISM:

The preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been replaced by amphibole, probably as a low grade, greenschist facies metamorphic event. Chloritisation and hematite dusting of the matrix would appear to have accompanied epidote – Fe/Mg chlorite – carbonate infilling of vughs as a penecontemporaneous, possible propylitic hydrothermal alteration event. The assemblage lacks evidence of tectonism.

COMMENTS:

The presence of abundant fine grained plagioclase laths in an original glassy matrix that also contained original clinopyroxene supports an andesitic to basaltic andesite classification. Evidence of a propylitic alteration overprint is not clear although the presence of epidote – Mg chlorite – actinolite infilling relic amygdales and occurring as stringers, along with hematite dusting, may have a propylitic alteration origin.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 4

TYPE: Core - TNA 001 137.46 - 137.56 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic chloritised phenocrysts and chlorite – trace pyrite filled vughs occur in a possible altered diorite host preserving lathlike plagioclase. Trace residual leucoxene. The sample is magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (albite – actinolite) and subsequently retrogressed and possibly propylitically altered (Fe/Mg chlorite – actinolite – epidote – carbonate) pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	63%
Amphibole – actinolite	14%
Sericite	tr
Mg/Fe to Fe/Mg chlorite	7%
Epidote	2%
Carbonate – calcite	2%
Leucoxene	tr
Opaques - magnetite	2%
- pyrite	tr

TEXTURE:

The overall texture of the matrix is similar to Samples 1 & 2 with randomly oriented lathlike to tabular plagioclase - albite closely associated with ragged actinolite occurring as an interstitial to locally ophitic phase. Actinolite has probably replaced original clinopyroxene and has, in turn, been replaced by fibrous Mg/Fe chlorite as a retrograde phase. The plagioclase component has been incipiently altered to fine granular epidote and minor sericite (saussurite). Distinctive vughs in the matrix have been infilled by fibrous Fe/Mg chlorite closely associated with bladed to prismatic actinolite as well as colloform – textured, micritic carbonate. Relic magnetite has been locally preserved in the vughs and is similar in habit to interstitial magnetite occurring in the matrix. The magnetite component is rimmed by Fe oxides (hematite). Accessory pyrite also occurs within the vughs.

ALTERATION/METAMORPHISM:

The preservation of relic igneous textures confirms that the metamorphic grade is low with replacement of original clinopyroxene by actinolite and the presence of albite consistent with a greenschist facies regime. Progressive Mg/Fe chlorite – epidote alteration and the development of distinctive vughs infilled by Fe/Mg chlorite – actinolite – carbonate would appear to represent ongoing retrograde alteration – possibly propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

SAMPLE NO: Sample 4 - CONTINUED

COMMENTS:

The preservation of original subophitic textures after original clinopyroxene in a matrix dominated by lathlike plagioclase – albite plus interstitial magnetite is consistent with a pyroxene diorite to dolerite classification. Hydrothermal propylitic alteration may have accompanied retrograde alteration of the assemblage and is associated with the development of distinctive vughs in a high level intrusive host. Trace pyrite also occurs within the vughs.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 4

TYPE: Core - TNA 001 137.46 - 137.56 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic chloritised phenocrysts and chlorite – trace pyrite filled vughs occur in a possible altered diorite host preserving lathlike plagioclase. Trace residual leucoxene. The sample is magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (albite – actinolite) and subsequently retrogressed and possibly propylitically altered (Fe/Mg chlorite – actinolite – epidote – carbonate) pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	63%
Amphibole – actinolite	14%
Sericite	tr
Mg/Fe to Fe/Mg chlorite	7%
Epidote	2%
Carbonate – calcite	2%
Leucoxene	tr
Opaques - magnetite	2%
- pyrite	tr

TEXTURE:

The overall texture of the matrix is similar to Samples 1 & 2 with randomly oriented lathlike to tabular plagioclase - albite closely associated with ragged actinolite occurring as an interstitial to locally ophitic phase. Actinolite has probably replaced original clinopyroxene and has, in turn, been replaced by fibrous Mg/Fe chlorite as a retrograde phase. The plagioclase component has been incipiently altered to fine granular epidote and minor sericite (saussurite).

Distinctive vughs in the matrix have been infilled by fibrous Fe/Mg chlorite closely associated with bladed to prismatic actinolite as well as colloform – textured, micritic carbonate. Relic magnetite has been locally preserved in the vughs and is similar in habit to interstitial magnetite occurring in the matrix. *Both magnetite and relic plagioclase laths, as part of the original matrix, can also occur within the vughs supporting a replacement origin for the vughs.* The magnetite component is rimmed by Fe oxides (hematite). Accessory pyrite also occurs within the vughs.

ALTERATION/METAMORPHISM:

The preservation of relic igneous textures confirms that the metamorphic grade is low with replacement of original clinopyroxene by actinolite and the presence of albite consistent with a greenschist facies regime. Progressive Mg/Fe chlorite – epidote alteration and the development of distinctive vughs infilled by Fe/Mg chlorite – actinolite – carbonate would

appear to represent

ongoing retrograde alteration – possibly propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The preservation of original subophitic textures after original clinopyroxene in a fine to medium grained matrix dominated by lathlike plagioclase – albite plus interstitial magnetite is consistent with a pyroxene diorite to dolerite classification and represents either a high level intrusive or thick volcanic flow. Hydrothermal propylitic alteration may have accompanied retrograde alteration of the assemblage and is thought to be associated with either the development of the vughs, or the potential enlargement of relic amygdales. Trace pyrite also occurs within the vughs.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 5

TYPE: Core - TNA 001 192 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic amygdales are infilled by chlorite in a hematite – altered, fine grained matrix in the mafic to intermediate volcanic host that has retained relic plagioclase microlites. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Low grade metamorphosed and propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite	55%	**Opaques (2%):**
Secondary plagioclase - albite	7%	Magnetite - dominant
Clinopyroxene – augite	17%	Chalcopyrite - minor
Amphibole – actinolite	2%	Galena - tr
Sericite	tr	Tetrahedrite/
Mg/Fe to Fe/Mg chlorite	12%	tennantite tr
Epidote	2%	Electrum - tr
Carbonate – calcite	1%	
Hematite	3%	
Opaques	2%	

TEXTURE:

Broadly similar to Sample 3 (TNA 001 121.94 - 122.06 m), with relic amygdales infilled by fibrous Mg/Fe chlorite that has been progressively replaced by Fe/Mg chlorite exhibiting a distinctive "Berlin Blue" birefringence. Bladed actinolite, secondary plagioclase and fibrous carbonate also occur within the relic amygdales. The host matrix is dominated by fine, randomly distributed, stubbly plagioclase microlites associated with interstitial fine grained, ophitic clinopyroxene – augite. Fine, anhedral epidote, fibrous chlorite and fine, needle-like actinolite represent minor alteration phases in the matrix.

In reflected light, fine anhedral magnetite occurs interstitially. Sulphides have been preserved in one amygdale and are intimately associated with the chlorite, epidote, actinolite, carbonate and secondary plagioclase alteration assemblage within the vugh. Sulphides are dominated by chalcopyrite exhibiting simple intergrowths with galena and tennantite/tetrahedrite. Tennantite/tetrahedrite exhibits exsolution textures. Trace electrum (?) rims both tennantite/ tetrahedrite and chalcopyrite. Most silicate phases in the matrix have been stained by Fe – oxide - hematite, apparent in reflected light.

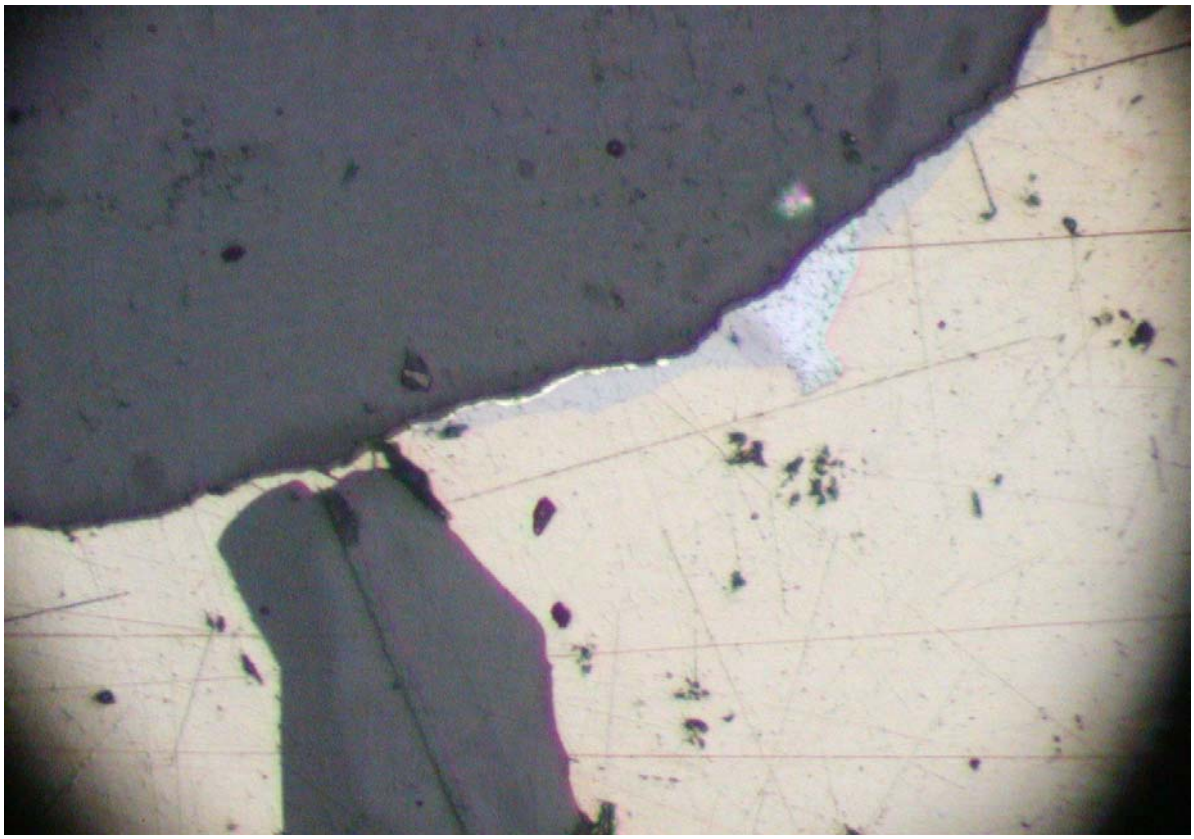
ALTERATION/METAMORPHISM:

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been largely preserved and has been

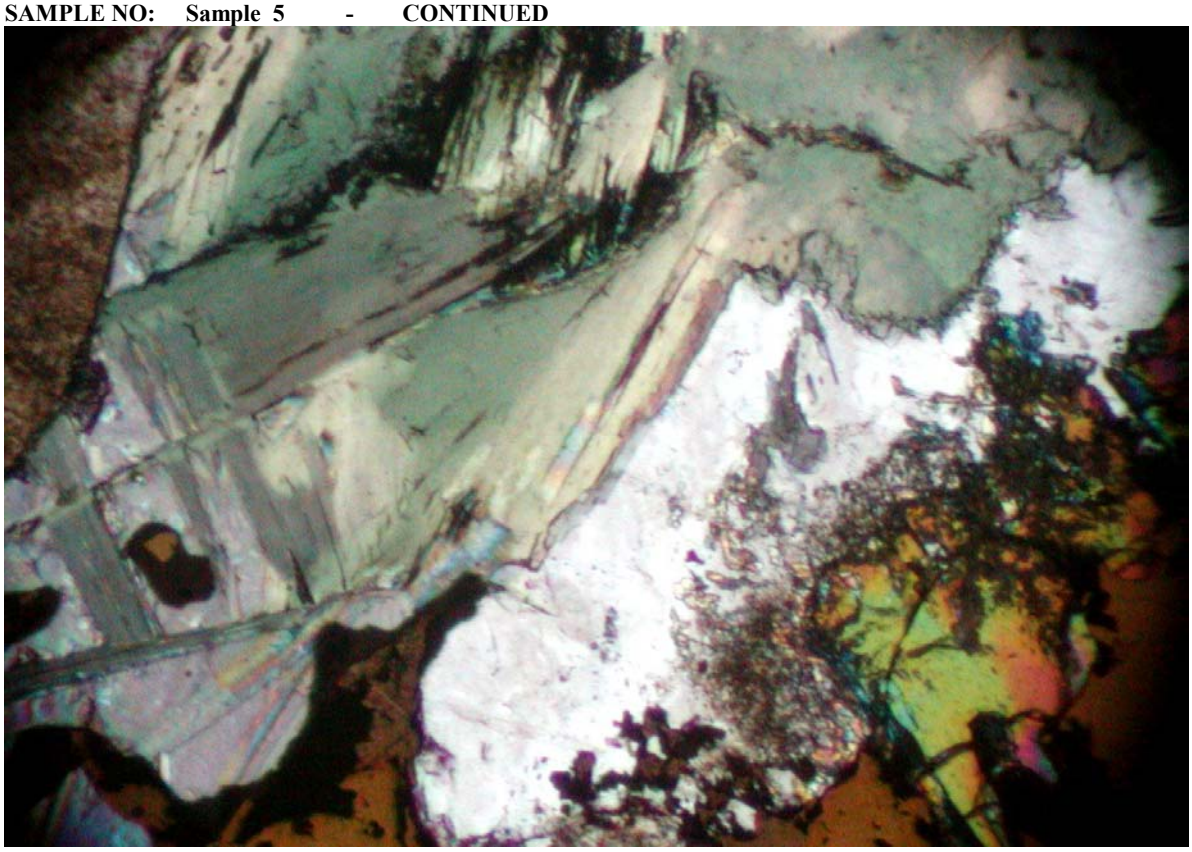
incipiently replaced by dusted epidote, fibrous Mg/Fe chlorite and needle-like amphibole, similar to the propylitic alteration assemblage that infills relic amygdales. Hematite dusting has accompanied low grade alteration.

COMMENTS:

The composition of the volcanic host that is dominated by plagioclase associated with interstitial, ophitic clinopyroxene, supports an andesitic to basaltic andesite classification. The distinctive hematite – dusted chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales as well as minor sulphides including chalcopyrite, galena and tennantite/tetrahedrite and possibly, electrum. The sulphide, electrum and silicate compositions should be checked by SEM.



SAMPLE NO: Sample 5 - CONTINUED



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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 6

TYPE: Core - TNA 001 207.0 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted, fine grained diorite or dolerite. A possible relic phyric phase has been replaced by chlorite. The sample is slightly magnetic and does not reacts very with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Pervasively propylitically altered (hematite dusted – epidote – Mg/Fe chlorite – sericite – actinolite) pyroxene diorite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	67%	**Opaques (2%):**
Amphibole – actinolite	18%	Magnetite - dominant
Sericite	2%	Hematite - minor
Mg/Fe chlorite	1%	
Epidote	9%	
Leucoxene	tr	
Hematite	1%	
Opaques	2%	

TEXTURE:

Relic textures have been preserved and include fine to medium grained, interlocking lathlike plagioclase associated with interstitial amphibole – actinolite that has replaced original clinopyroxene. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. Fine anhedral epidote aggregates, locally associated with bladed actinolite and fibrous Mg/Fe chlorite, occur as segregations overprinting the matrix as an alteration phase. Fine grained phyric magnetite is dispersed through the matrix.

In reflected light, magnetite occurs as a subhedral phyric phase dispersed through the matrix and is closely associated with matrix plagioclase. Magnetite can be rimmed by hematite as an alteration phase. Hematite has highlighted thin-walled boxworks, possibly replacing an original ferromagnesian phyric phase (clinopyroxene?) in the matrix.

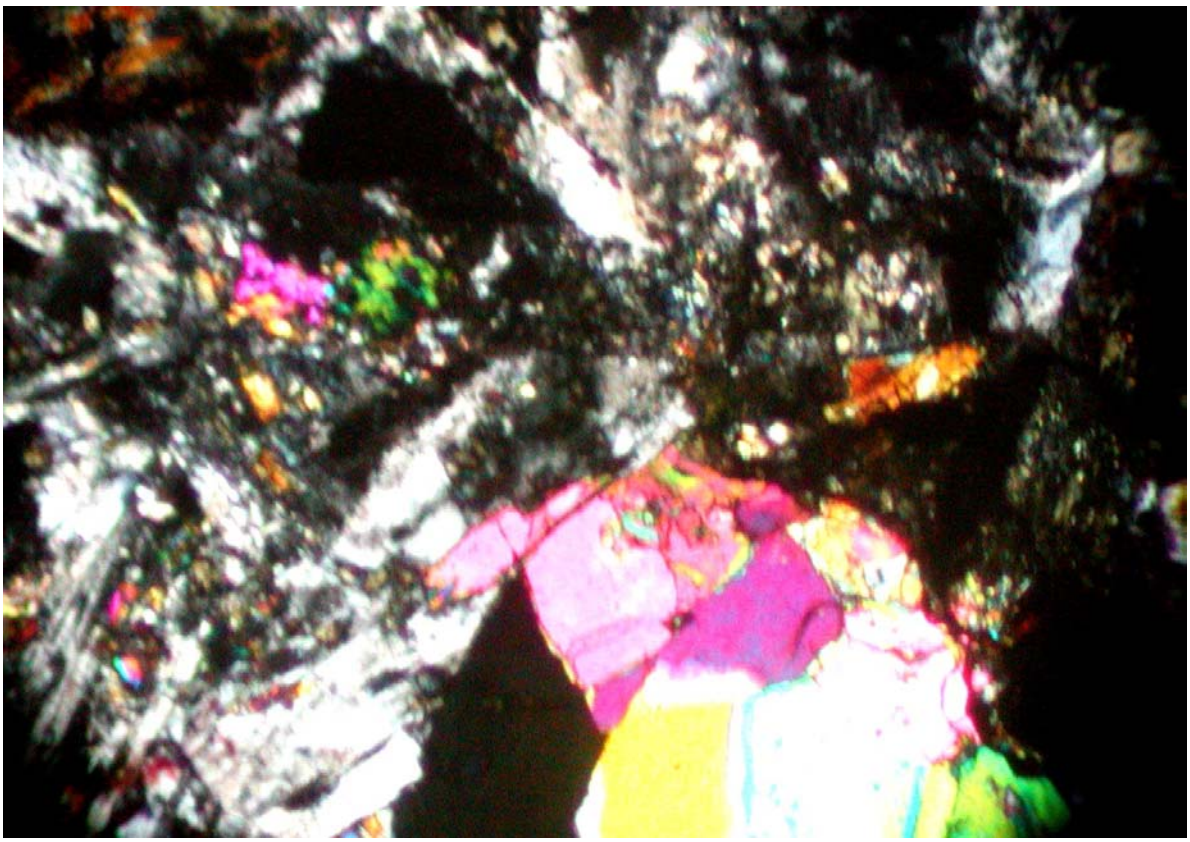
ALTERATION/METAMORPHISM:

Like the samples described earlier, the preservation of relic igneous textures confirms a low metamorphic grade. The mafic host has been clearly overprinted by a propylitic hydrothermal alteration assemblage including hematite – dusted plagioclase, plus distinctive aggregates of epidote, Mg/Fe chlorite, sericite and minor actinolite. The assemblage lacks evidence of tectonism.

COMMENTS:

The dominance of plagioclase in the matrix where original interstitial clinopyroxene has been

replaced by amphibole (or uralite) supports a possible pyroxene diorite precursor that has preserved phyric magnetite. The assemblage is thought to be co-magmatic with the basaltic andesite described in Sample 5. The intensity of hydrothermal propylitic alteration and hematite dusting is noteworthy.



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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 7

TYPE: Core - TNA 001 226.36 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite altered mafic volcanic or fine grained intrusive. Fine, subhedral pyrite is distributed through the matrix. The sample is very weakly magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *An interpreted quartz feldspar amphibole gneissic precursor has been strongly propylitically altered and albitised (hematite dusted secondary plagioclase – secondary quartz, Mg/Fe chlorite – sericite – epidote), associated with introduction of trace sulphides including pyrite and chalcopyrite.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	8%	**Opaques (2%):**
Plagioclase – albite	73%	Magnetite - tr
Carbonate – ankerite	6%	Pyrite - tr
Sericite	3%	Chalcopyrite - tr
Mg/Fe chlorite	4%	Martite (hematite) - dominant
Epidote	2%	
Hematite	2%	
Opaques	2%	

TEXTURE:

Relic textures have been largely obliterated in an altered matrix where medium grained, equant and anhedral secondary plagioclase, typically associated with scaly Mg/Fe chlorite aggregates, has probably replaced an original feldspathic phase in the matrix. The plagioclase component has also been pervasively hematite – dusted and incipiently altered to sericite. Plagioclase is associated with interstitial quartz and a possible original ferromagnesian phase that has been replaced by fibrous Mg/Fe chlorite interlayered with carbonate and closely associated with granular hematite aggregates. Fine, anhedral epidote aggregates are typically associated with the chlorite – carbonate pseudomorphs after the ferromagnesian phase – possibly amphibole. The overall fabric is considered to be relic granoblastic

In reflected light, original subhedral magnetite has been replaced by martite (hematite). Fine grained, subhedral to euhedral pyrite (pyritahedron) and trace anhedral chalcopyrite are dispersed through the matrix. Accessory sulphides were not observed.

ALTERATION/METAMORPHISM:

The intermediate to mafic host has retained an indistinct granoblastic texture suggesting a high grade metamorphic – upper amphibolite facies precursor. The host has been pervasively altered or retrogressed to a hematite dusted secondary plagioclase – albite, Mg/Fe chlorite – carbonate – sericite – epidote assemblage that would appear to have accompanied progressive albitisation of

the host as part of a propylitic overprint.

COMMENTS:

The overall medium grained, granoblastic fabric and probable composition of plagioclase, minor interstitial quartz and a ferromagnesian phase – possibly amphibole, strongly suggests a quartz feldspar amphibole gneissic precursor and may represent a metamorphosed intermediate volcanic or intrusive. The alteration overprint is significant and is dominated by hematite dusted plagioclase associated with secondary quartz, Mg/Fe chlorite, sericite, carbonate and epidote as part of a propylitic assemblage. Finely disseminated pyrite and trace chalcopyrite represent part of the alteration assemblage.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

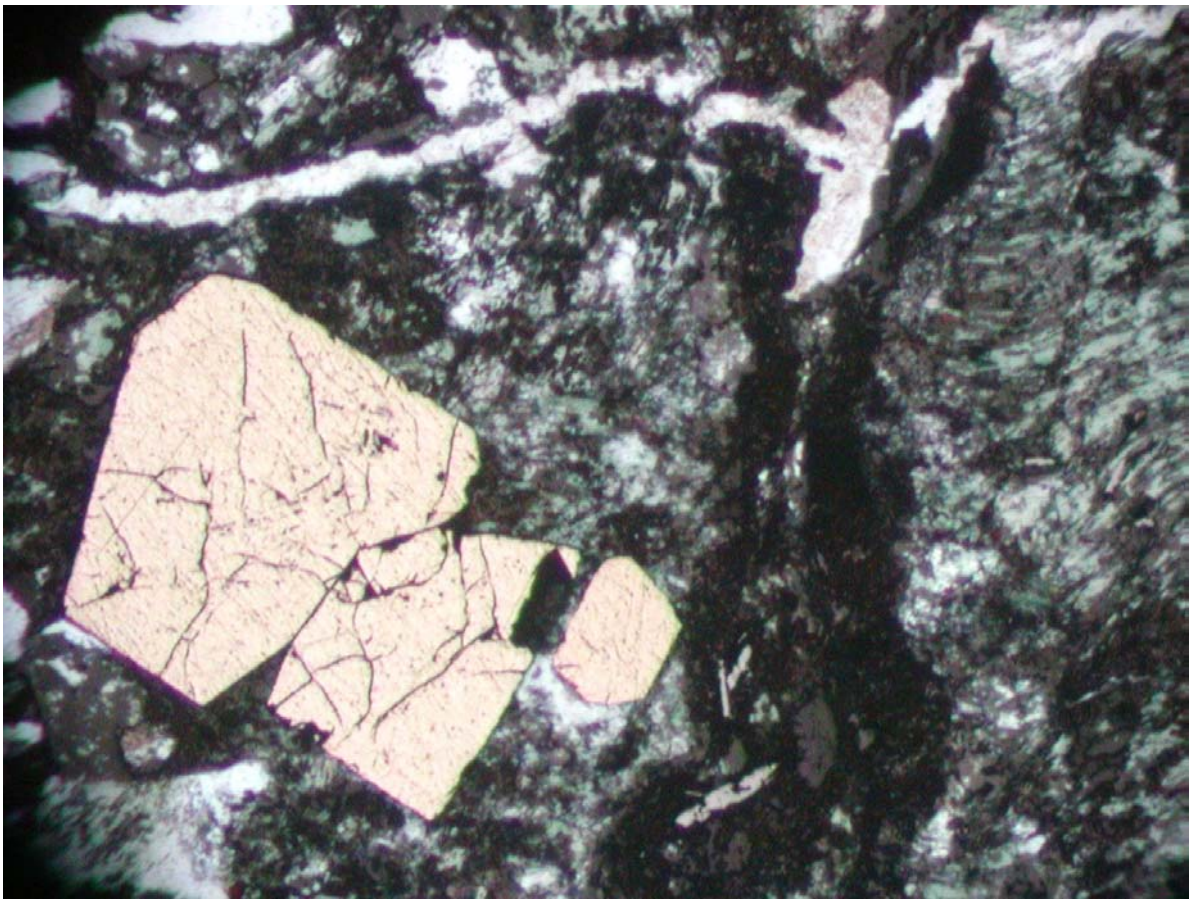


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 8

TYPE: Core - TNA 001 267.1 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite altered, mafic to intermediate fine grained intrusive that exhibits a strong hematite alteration selvedge adjacent to a mineralised (pyrite) vein. The vein reacts strongly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *An original quartzofeldspathic – biotite gneissic assemblage with a possible felsic tuffaceous progenitor has been pervasively retrogressed (hematite dusting – sericite – Fe and Mg/Fe chlorite). A mineralised (pyrite, bornite, chalcopyrite) quartz – carbonate – secondary plagioclase – epidote) vein cuts the matrix and is associated with a hematite-dusted selvedge.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	18%	Quartz	69%	**Opaques (up to 3%):**
Plagioclase – albite/ oligoclase	68%	Sndry plagioclase – albite	10%	Pyrite - dominant
Sericite	2%	Carbonate – calcite	17%	Chalcopyrite - tr
Biotite to Fe chlorite	9%	Epidote	3%	Bornite - minor
Mg/Fe chlorite	tr	Mg/Fe chlorite	1%	Hematite - tr
Zircon	tr	Sericite	tr	
Apatite	tr	Opaques	3%	
Hematite	3%			
Opaques	tr			

TEXTURE:

A relic, fine to medium grained, granoblastic texture has been preserved by equant to anhedral plagioclase associated with interstitial quartz. The plagioclase component has been ubiquitously incipiently sericitised and hematite dusted. Quartz exhibits ubiquitous undulose extinction. Anhedral platy biotite occurs interstitially in the matrix and has been locally hematite dusted and altered to Fe chlorite and Mg/Fe chlorite adjacent to a vein cutting the matrix. Hematite dusting increases as an alteration selvedge to the vein and is locally interlayered with crenulated Mg/Fe chlorite along microshears that appear to have accompanied the vein. Fine grained (up to 80μm), subrounded to rounded (detrital) zircon occurs as an accessory in the matrix.

The quartz vein cutting the matrix comprises an anhedral mosaic of quartz associated with carbonate – calcite and secondary plagioclase, minor anhedral epidote and sulphides (opaque). Granular hematite aggregates (opaque) also forms part of the vein assemblage and is particularly associated with secondary plagioclase.

In reflected light, minor euhedral pyrite and fine grained chalcopyrite are distributed through the altered, hematite – dusted selvedge. Pyrite can contain trace chalcopyrite inclusions. The

vein similarly contains disseminated euhedral pyrite (pyritahedra) as well as anhedral bornite aggregates, as well as fine grained chalcopyrite. Fine anhedral hematite is also apparent.

ALTERATION/METAMORPHISM:

The relic granoblastic texture recognised in the host provide evidence for a high grade metamorphic – upper amphibolite facies quartzofeldspathic precursor. The assemblage has been pervasively retrogressed (sericite - Fe and Mg/Fe chlorite) and hematite - dusted as an alteration overprint associated with the introduction of mineralised veins as a syn-tectonic phase.

COMMENTS:

The preservation of a granoblastic texture in the host is noteworthy and strongly suggests a quartzofeldspathic gneissic precursor with presence of fine detrital zircon indicating a possible felsic tuffaceous progenitor, possibly similar to the quartz – albite lithologies in the Willyama Group in Broken Hill. Ongoing retrograde alteration is closely associated with hematite dusting and sericitisation, as well as possible albitisation of the feldspar component. Biotite has been replaced by Fe chlorite and Mg/Fe chlorite as part of the propylitic alteration overprint. Significantly, Cu sulphides, occurring as bornite and chalcopyrite, are closely associated with veining and alteration as a probably brittle fracturing event.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

SAMPLE NO: Sample 8 - CONTINUED

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

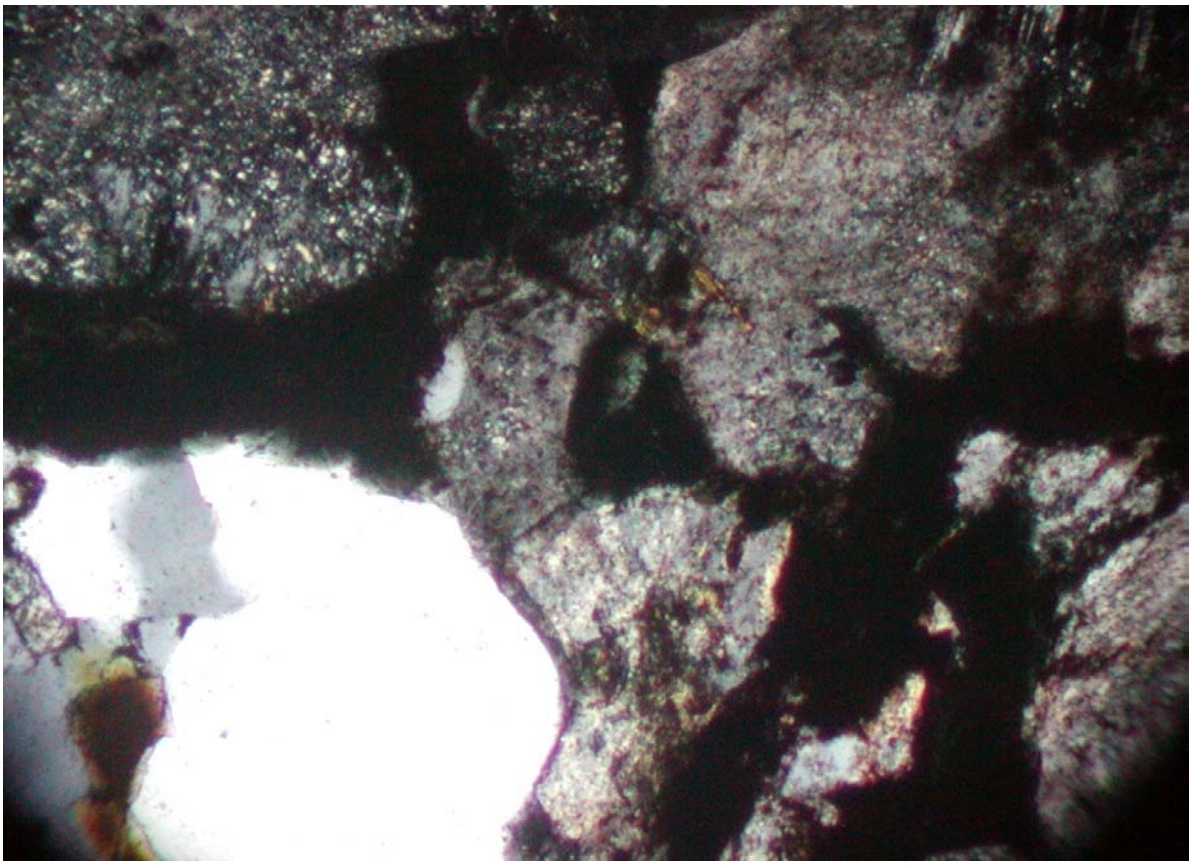


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

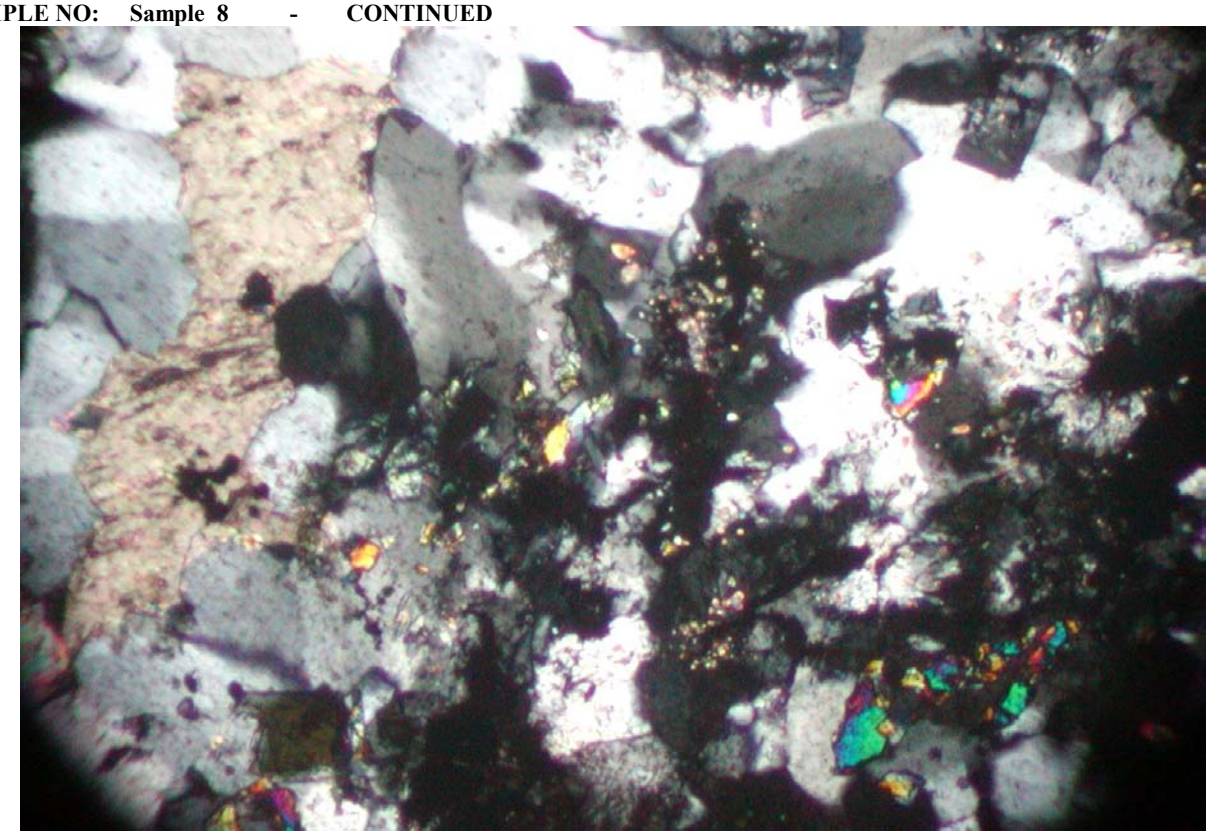


Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 9

TYPE: Core - TNA 001 273.7 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Fine grained blebby sulphides occur in a weakly hematite - dusted amphibolite host. The sample reacts weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Blebby sulphides including chalcopyrite and minor pyrite are associated with specular hematite as part of a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite – ferroactinolite – epidote) overprint of a prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	6%	**Opaques (3%):**
Plagioclase – andesine (An_{45})	5%	Hematite - minor
- albite	28%	Chalcopyrite - dominant (2%)
Amphibole – hornblende		53% Pyrite - minor
- ferroactinolite	3%	
Sericite	2%	
Mg/Fe chlorite	2%	
Epidote	tr	
Hematite	tr	
Opaques	3%	

TEXTURE:

A relic granoblastic texture has been preserved with the presence of xenoblastic and locally poikiloblastic amphibole associated with interstitial anhedral plagioclase. The khaki – light brown pleochroic metamorphic hornblende component exhibits a weakly oriented gneissic texture and has been incipiently retrogressed to blue-green pleochroic ferroactinolite along grain margins. The plagioclase component has locally preserved a prograde metamorphic andesine composition but has been largely replaced by albite and pervasively incipiently altered to fibrous sericite. Anhedral quartz occurs interstitially and exhibits ubiquitous undulose extinction and local recrystallisation or annealing textures.
Sulphide (opaque) aggregates as blebs and stringers, are rimmed by a retrograde assemblage including anhedral epidote, platy Mg/Fe chlorite and secondary plagioclase (albite).

In reflected light, blebby sulphides are dominated by chalcopyrite that is moulded around specular hematite. Minor subhedral pyrite is similarly moulded around hematite, and has, in turn been enclosed by chalcopyrite. The chalcopyrite grains can exhibit corroded grain boundaries. Porous hematite has also probably replaced original magnetite that may have represented a precursor to the mineralisation.

SAMPLE NO: Sample 9 - CONTINUED

ALTERATION/METAMORPHISM:

The preservation of a granoblastic texture in an assemblage, dominated by hornblende confirms a high grade metamorphic – amphibolitic assemblage. The host has been pervasively altered or retrogressed, with the presence of hematite - dusted, sericitised plagioclase and ferroactinolite - Mg/Fe chlorite altered amphibole, that would appear to have accompanied the introduction of sulphides. The mineralisation shows a paragenetic sequence of magnetite (?), followed by hematite, followed by pyrite, followed by chalcopyrite.

COMMENTS:

The medium grained granoblastic fabric and amphibole – plagioclase – minor quartz composition confirms an amphibolitic classification. The intensity of the alteration overprint is less than that observed in Sample 8 (TNA 001 – 267.1 m) although mineralisation including blebby chalcopyrite clearly forms part of the retrograde alteration overprint.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is

noteworthy.

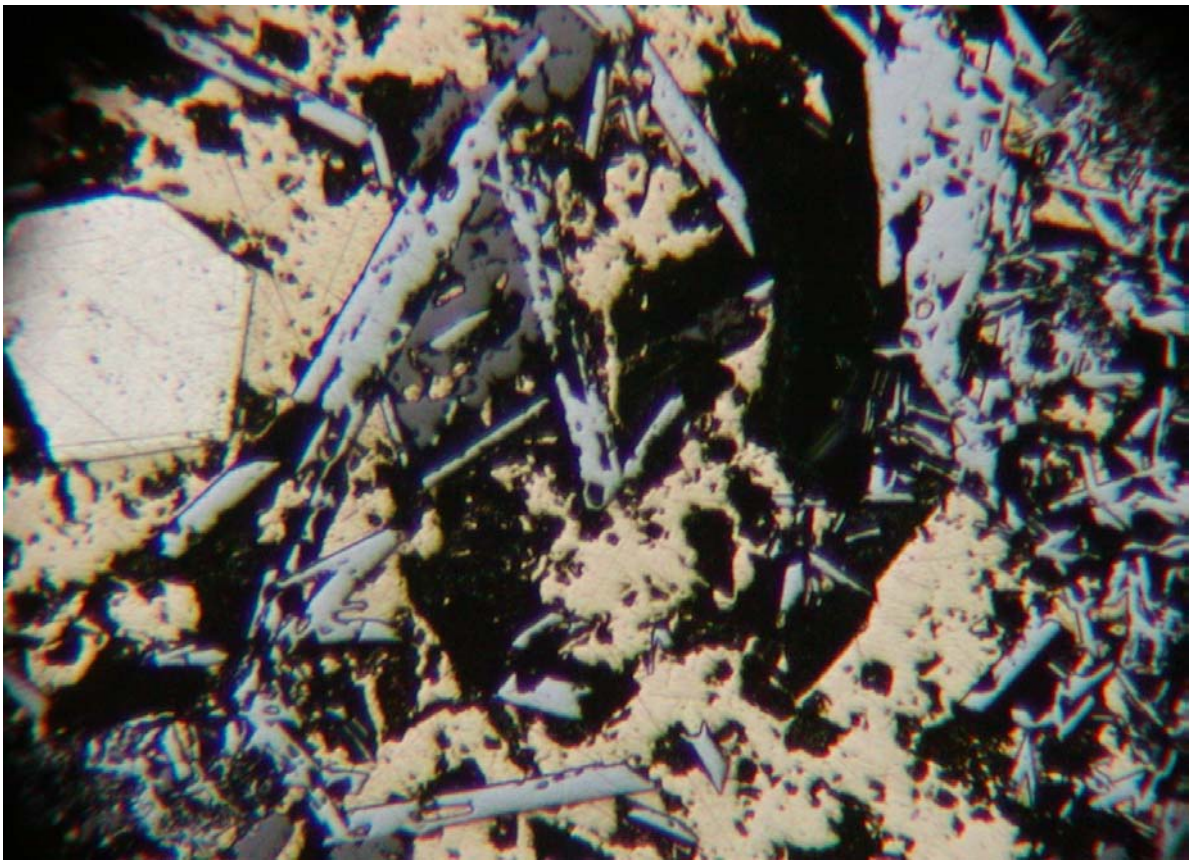


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 10

TYPE: Core - TNA 001 275.8 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: A carbonate vein cuts an altered amphibolite host. The carbonate vein reacts strongly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Blebby sulphides including chalcopyrite and minor pyrite are associated with specular hematite as part of a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite – ferroactinolite – epidote)overprint of a prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	13%	Quartz	20%	**Opaques (1 - 2%):**
Plagioclase – andesine	28%	Carbonate - calcite	75%	Chalcopyrite - dominant
Sericite	5%	Mg/Fe chlorite	3%	Pyrite - tr
Mg/Fe chlorite	54%	Opaques	2%	Hematite - tr
Hematite	tr			
Leucoxene	tr			
Opaques	1%			

TEXTURE:

The metamorphic host has been pervasively altered, although a relic granoblastic texture has been preserved. Anhedral plagioclase has been pervasively incipiently sericitised and is associated with interstitial anhedral quartz preserving ubiquitous undulose extinction and recrystallisation textures. The plagioclase component has been weakly hematite – dusted. Residual leucoxene is dusted through chlorite pseudomorphs after original amphibole. Secondary quartz aggregates have locally replaced the plagioclase component. Leucoxene has also replaced magnetite in the matrix.

The tensional vein cutting the matrix comprises an anhedral carbonate mosaic closely associated with anhedral quartz. Fibrous Mg/Fe to Fe/Mg chlorite occurs as a selvedge to the vein and as clumps within the vein. The quartz component has preserved subhedral bladed forms and relic growth zoning textures confirming initial open fracture crystallisation.

In reflected light, fine anhedral chalcopyrite is distributed through the carbonate – quartz vein and the altered matrix. Fine, subhedral pyrite and hematite represent minor phases in the matrix.

ALTERATION/METAMORPHISM:

The preservation of a relic granoblastic texture confirms a high grade metamorphic precursor. The host has been pervasively hydrothermally altered or retrogressed to hematite - dusted, sericitised plagioclase - Mg/Fe to Fe/Mg chlorite – secondary quartz assemblage consistent with propylitic alteration. The carbonate – quartz vein would be appear to represent a

continuum of

the alteration assemblage.

COMMENTS:

Chlorite is interpreted to have replaced amphibole that composed up to 55% of the metamorphic host. The presence of original plagioclase and interstitial quartz confirms that the host had a similar composition to the amphibolite described in Sample 9 (TNA 001 273.7m). The intensity of propylitic alteration is noteworthy and is clearly associated with the introduction of mesothermal (?) carbonate – quartz – chlorite veins and minor mineralisation including chalcopyrite and trace pyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

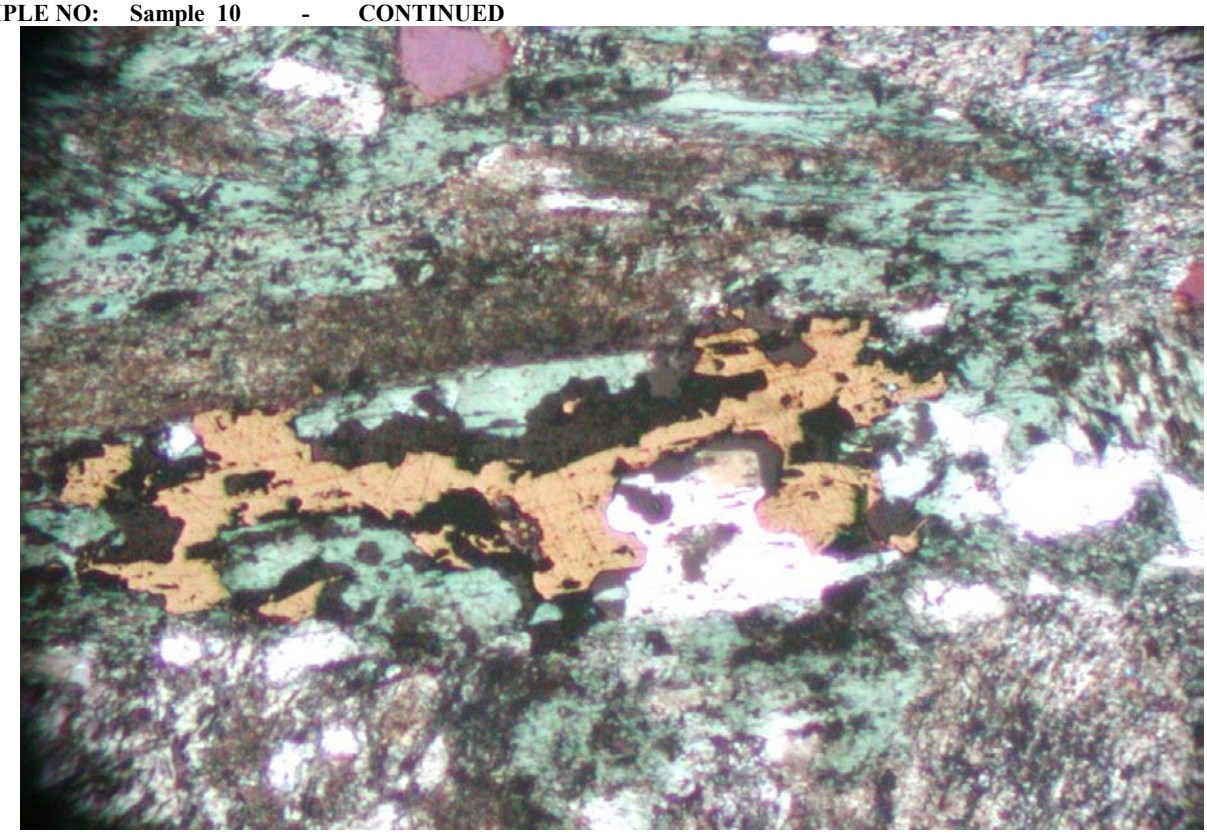


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

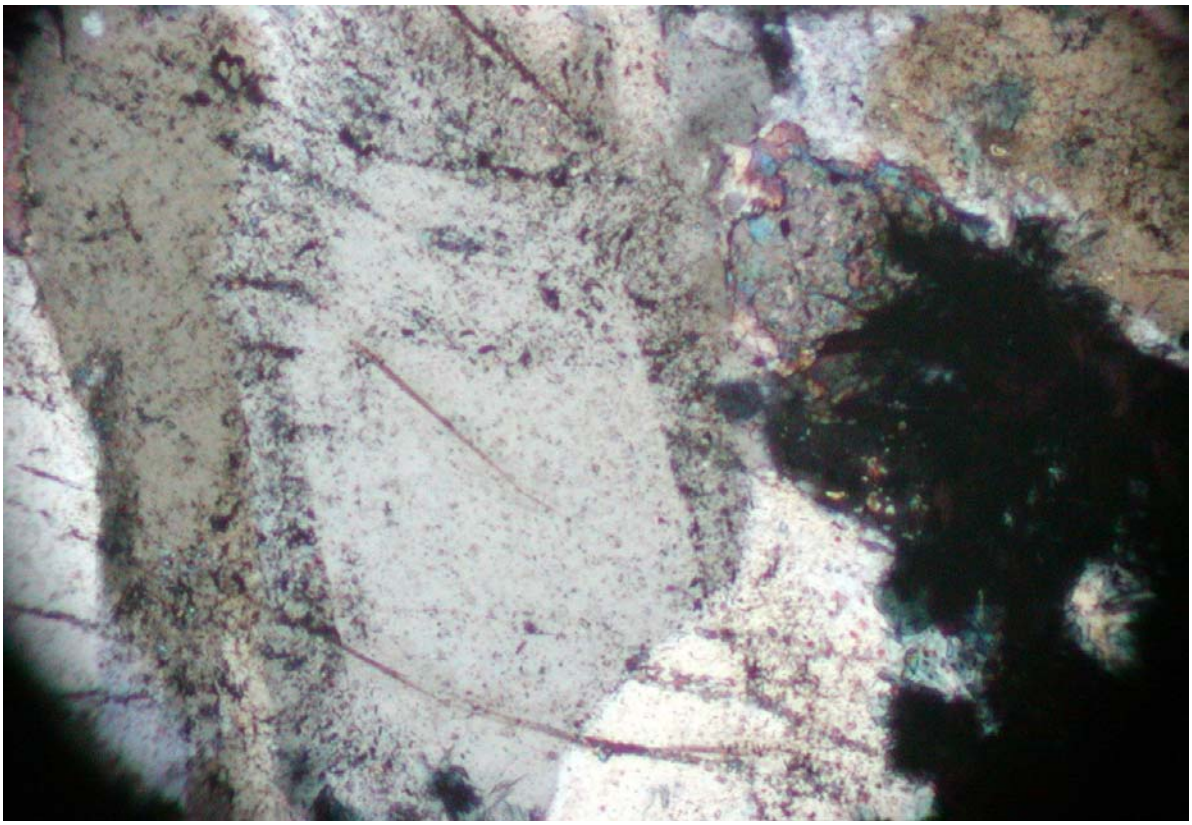


Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive

comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 11

TYPE: Core - TNA 001 289.0 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Chlorite – carbonate veining associated with pyrite euhedra occurring in an altered, hematite - stained quartz feldspar garnet gneiss. The vein reacts moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor arsenian pyrite and trace chalcopyrite plus minor hematite are associated with a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite) selvedge associated with a cross-cutting carbonate – Mg/Fe chlorite vein in a prograde quartz – plagioclase (andesine) – biotite – garnet – apatite gneissic assemblage, stable under upper amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	22%	Carbonate – calcite	84%	**Opaques (2%):**
Plagioclase – andesine (An_{32})	48%	Plagioclase - albite	4%	Pyrite - dominant
- albite	8%	Mg/Fe chlorite	7%	Chalcopyrite - tr
Biotite	9%	Opaques	5%	Hematite - minor
Sericite	2%			
Mg/Fe chlorite	3%			
Garnet	4%			
Apatite	2%			
Hematite	tr			
Opaques	2%			

TEXTURE:

A variable, fine to medium grained granoblastic texture has been preserved in a quartzofeldspathic host containing anhedral or xenoblastic plagioclase – andesine associated with interstitial quartz and platy biotite. Occasional garnet xenoblasts are distributed through the matrix. Fine, xenoblastic to subidioblastic apatite is distributed through the matrix as an important accessory. The plagioclase has been incipiently sericitised with increased sericitisation and hematite dusting occurring adjacent to a cross-cutting vein. Plagioclase has also been locally albitised and has formed distinctive granophyric textures with quartz.

The cross – cutting vein comprises fine anhedral carbonate mosaic associated with fibrous Mg/Fe chlorite and rimmed by secondary plagioclase – albite. Euhedral sulphides (opaque– pyrite) occur within the vein.

In reflected light, euhedral arsenian pyrite, exhibiting a weak anisotropism, occurs within the cross cutting carbonate vein. Hematite occurs as an accessory in the vein. Fine subhedral pyrite and accessory anhedral chalcopyrite are distributed through the matrix.

SAMPLE NO: Sample 11 - CONTINUED

ALTERATION/METAMORPHISM:

Both the quartz – plagioclase (andesine) – biotite – garnet composition and the granoblastic texture confirms a high grade upper amphibolite metamorphic regime for this quartzofeldspathic gneiss. The host has been more strongly altered or retrogressed as a selvedge to a cross-cutting carbonate vein to sericitised plagioclase, while biotite and possibly garnet have been altered to Mg/Fe chlorite.

COMMENTS:

The prograde composition of the host that contains accessory garnet and apatite would appear to indicate a psammopelitic precursor that has been regionally metamorphosed to upper amphibolite facies. The retrograde sericite – Mg/Fe chlorite assemblage and the local development of granophyric textures in albite is consistent with the previously described samples, supporting a propylitic overprint associated with the introduction of sulphides including arsenian pyrite and trace chalcopyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.



Plate A Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 12

TYPE: Core - TNA 001 321 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Amphibolite. Thin veins react moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor disseminated sulphides including minor chalcopyrite and pyrite plus a series of thin carbonate ± Mg/Fe chlorite veins occur in a moderately retrograde altered (sericite – Mg/Fe chlorite – tr epidote) prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	4%	**Opaques (2%):**
Plagioclase – andesine (An_{45})	5%	Hematite - dominant
- albite	20%	Chalcopyrite - minor
Amphibole – hornblende	62%	Pyrite - minor
Sericite	2%	Magnetite - tr
Mg/Fe chlorite	2%	
Secondary biotite	1%	
Carbonate - calcite	2%	
Epidote	tr	
Opaques	2%	

TEXTURE:

The amphibolitic composition and granoblastic texture are similar to Sample 9 (TNA 001 273.7 m). The amphibole component is a khaki – light brown pleochroic metamorphic hornblende and typically has a xenoblastic habit and is associated with interstitial anhedral plagioclase. The plagioclase component has been pervasively incipiently altered to fibrous sericite. Anhedral quartz occurs as a minor interstitial phase in the matrix and as inclusions in amphibole. The matrix has preserved a weak gneissic texture. Fine, anhedral opaques are distributed through the matrix.

A series of irregular, thin carbonate ± fibrous Mg/Fe chlorite veins cut the matrix and are locally associated with an alteration selvedge comprising secondary biotite and scaly Mg/Fe chlorite as well as trace epidote alteration of the amphibole component.

In reflected light, fine anhedral to subhedral hematite or martite, after original magnetite, is distributed through the matrix. Fine grained sulphides represent a minor phase and include anhedral to subhedral pyrite and anhedral chalcopyrite. Both pyrite and hematite have replaced trace magnetite.

ALTERATION/METAMORPHISM:

The original hornblende – plagioclase (andesine) composition and the preservation of a granoblastic texture confirms a high grade metamorphic – amphibolitic assemblage. The host has been progressively albitised and incipiently altered to sericite, Mg/Fe chlorite and epidote as

a retrograde phase. The alteration that would appear to have accompanied minor carbonate – Mg/Fe chlorite veining and the introduction of minor sulphides.

COMMENTS:

The medium grained granoblastic fabric and amphibole – plagioclase – minor quartz composition confirms an amphibolitic classification. The intensity of the alteration overprint can be regarded as relatively low although there is a clear relationship with veining, alteration and minor disseminated sulphides.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

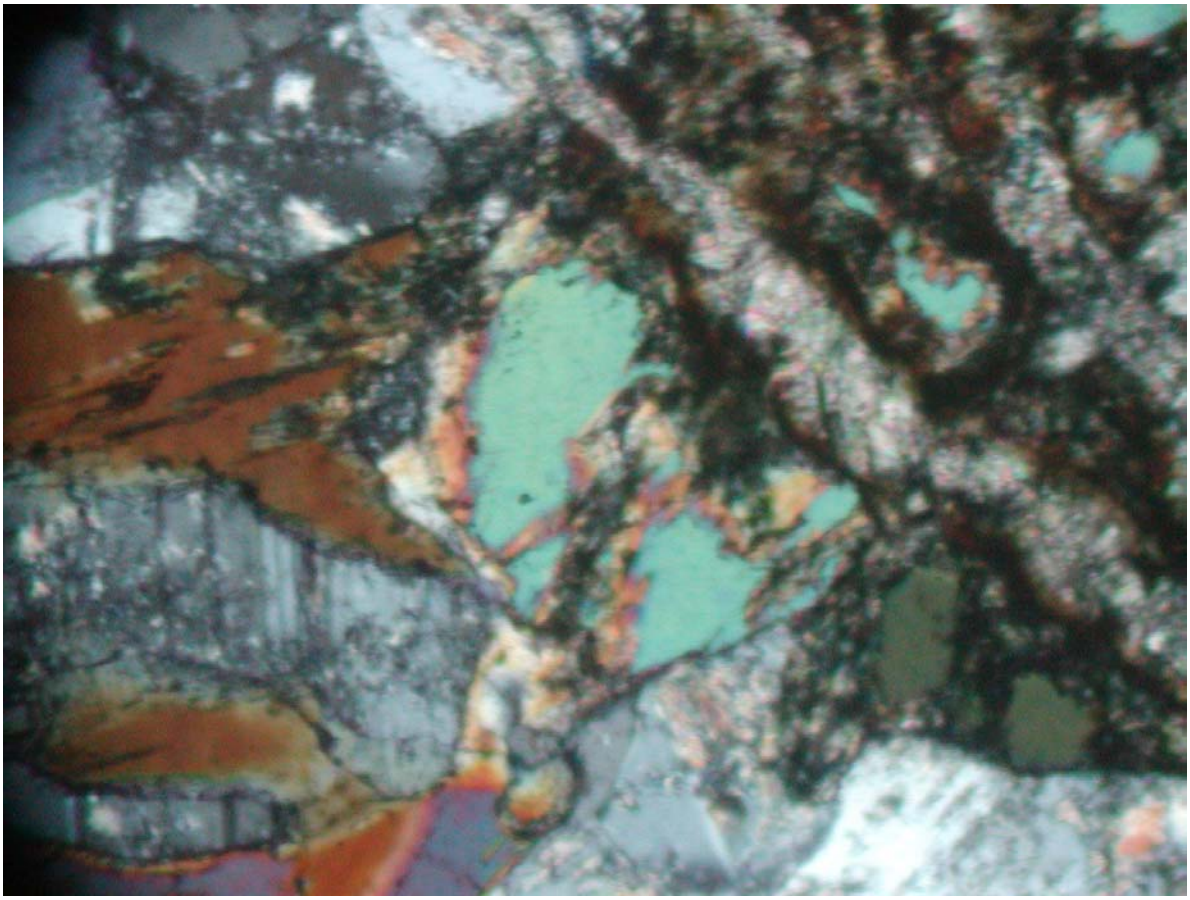


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 13

TYPE: Core - TNA 001 327.5 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted, porphyritic granite or syenite. A ferromagnesian phase, possibly biotite or chlorite, occurs interstitially. The sample reacts weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor pyrite is associated with a retrograde alteration assemblage (sericite clay – Fe/Mg chlorite – epidote) within a porphyritic quartz syenite intrusive host that provides evidence of initial potash metasomatism.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	6%	**Opaques (tr):**
Potash feldspar – microcline	80%	Hematite
Plagioclase – albite	5%	Pyrite
Biotite	3%	
Sericite	1%	
Fe/Mg chlorite	3%	
Epidote	1%	
Carbonate - calcite	tr	
Xenotime	1% 0.5 mm	
Apatite	tr	
Clay	tr	
Opaques	tr	

TEXTURE:

An allotriomorphic granular texture has been preserved in a plutonic host dominated by coarse potash feldspar – microcline phenocrysts (~ 6 mm). The anhedral microcline phenocrysts occur in a fine grained matrix comprising an anhedral mosaic of potash feldspar and subordinate plagioclase associated with platy biotite aggregates. Anhedral quartz occurs as an interstitial phase and exhibits ubiquitous undulose extinction and localised recrystallisation. The feldspathic component has been incipiently altered to fibrous sericite and has been clay – dusted. Biotite has been progressively replaced by fibrous to platy Fe/Mg chlorite and fine, granular epidote. Portions of the matrix have been cut by a network of brittle fractures that are associated with local recrystallisation or annealing of the feldspathic matrix. Fine anhedral carbonate occurs as an alteration phase in the matrix. Subhedral to euhedral xenotime occurs as an accessory.

In reflected light, fine euhedral pyrite (pyritahedra) occurs as a minor phase and is closely associated with the retrograde alteration assemblage. Fine, granular hematite also forms part of the alteration assemblage.

ALTERATION/METAMORPHISM:

Possible potash autometasomatism of the plutonic host has effectively replaced the original

feldspathic component with microcline. Ongoing retrograde (hydrothermal) alteration has incipiently clay – sericite altered potash feldspar and progressively replaced biotite with Fe/Mg chlorite associated with anhedral epidote. Minor carbonate represents part of the retrograde propylitic alteration assemblage.

COMMENTS:

The porphyritic plutonic assemblage is dominated by potash feldpar associated with minor (secondary?) plagioclase plus quartz supporting a porphyritic quartz syenite classification. The plutonic host provides evidence of initial potash metasomatism, possibly occurring at the top of a major felsic intrusive, that has been followed by pervasive retrograde alteration plus minor sulphides - pyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

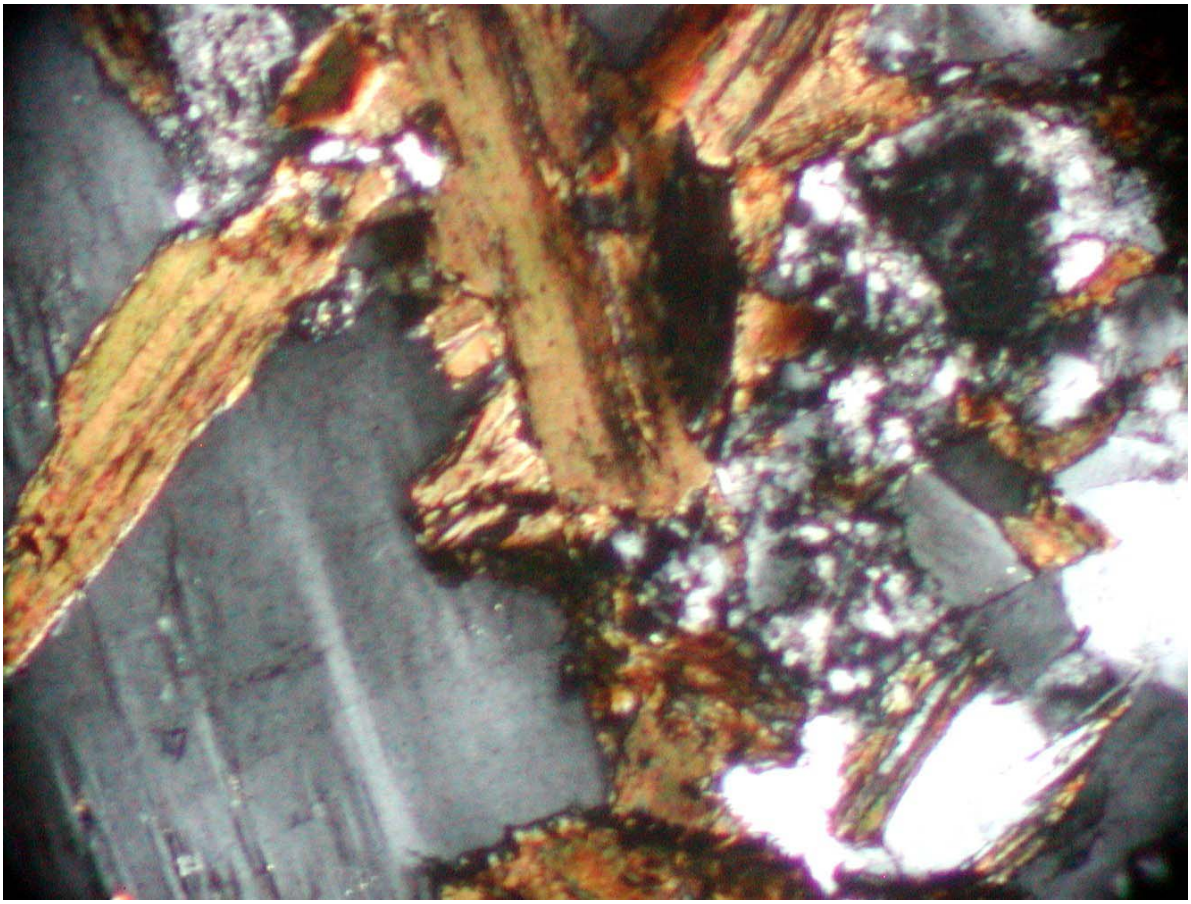


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 16 & 17

TYPE: Core - TNA 002 123.75 m & 139 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hanging wall volcanic lithologies **-** Relic amygdales are infilled by chlorite in a hematite – altered fine grained matrix in the mafic to intermediate volcanic host retaining relic plagioclase microlites. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Sections

CLASSIFICATION: *Low grade metamorphosed and possibly propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite volcanics that are locally amygdaloidal.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite
Clinopyroxene – augite
Amphibole – actinolite
Sericite
Mg chlorite
Epidote
Carbonate – calcite
Hematite
Opaques

Opaques (2%):
Magnetite
Hematite

TEXTURE & ALTERATION:

Sample TNA 002 123.75 m is similar to Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite and iron ore – magnetite and hematite.
Sample TNA 002 139.0 m is similar to Sample 3 (121.94 - 122.06 m) with relic amygdales infilled by fibrous to scaly Mg chlorite in a matrix preserving fine plagioclase microlites associated with interstitial dark glass.

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been largerly preserved in TNA 002 123.75 m. The plagioclase component has been pervasively hematite – dusted. Relic amygdales have been infilled by Mg chlorite, actinolite and calcite.

COMMENTS:

The composition of dominant plagioclase associated with interstitial, ophitic clinopyroxene supports an andesitic to basaltic andesite classification. The distinctive hematite – dusted chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 14

TYPE: Core - TNA 002 213.72 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted and epidote altered bedded arenite, possibly occurring at the base of the overlying volcanic suite. Coarser grained arenite units react weakly to moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Interbedded arenite and argillite units with a probable felsic plutonic – granitic provenance. The sediment has been overprinted by a calcite, epidote, actinolite, dusted hematite metasomatic alteration assemblage associated with disseminated pyrite.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	83%	**Opaques (tr):**
Potash feldspar – microcline	4%	Pyrite
Amphibole - actinolite	2%	Hematite
Epidote	6%	
Sericite	tr	
Carbonate - calcite	4%	
Hematite/clay dusting	1%	
Opaques	tr	

TEXTURE:

Coarser grained arenite units are dominated by subrounded to subangular detrital quartz associated with subordinate detrital potash feldspar – microcline as well as minor recrystallised quartz. The sedimentary unit is poorly to moderately sorted and has been cemented by calcite. Fibrous to bladed actinolite and fine granular epidote represent additional alteration phases in the matrix. The detrital quartz component has undergone pre-depositional stress with the presence of ubiquitous undulose extinction and recrystallised quartz clasts.

The fine grained argillite units comprise cryptocrystalline quartz containing coarser grained detrital quartz. Fine, granular epidote occurs interstitially with the presence of oriented, fine tabular quartz providing evidence of recrystallisation of the matrix. Fine grained portions of the matrix have also been dusted by clay/hematite. The presence of stylolitic textures as well as pressure solving of the coarser grained units by the hematite – dusted argillite units provides evidence of ongoing deformation. Fine, sheaf-like to stellate clusters of bladed epidote also occurs in the fine grained argillite units that have been penetrated by fibrous tremolite aggregates and would appear to occur as a selvedge to veins or segregations comprising fine anhedral quartz associated with carbonate and fine scaly sericite.

In reflected light, fine anhedral pyrite is distributed through the matrix and can be closely associated with epidote – actinolite alteration in the argillite units. Coarser, subhedral pyrite has also overprinted the detrital component in the arenite units. Fine anhedral hematite occurs as an

accessory in the argillite units.

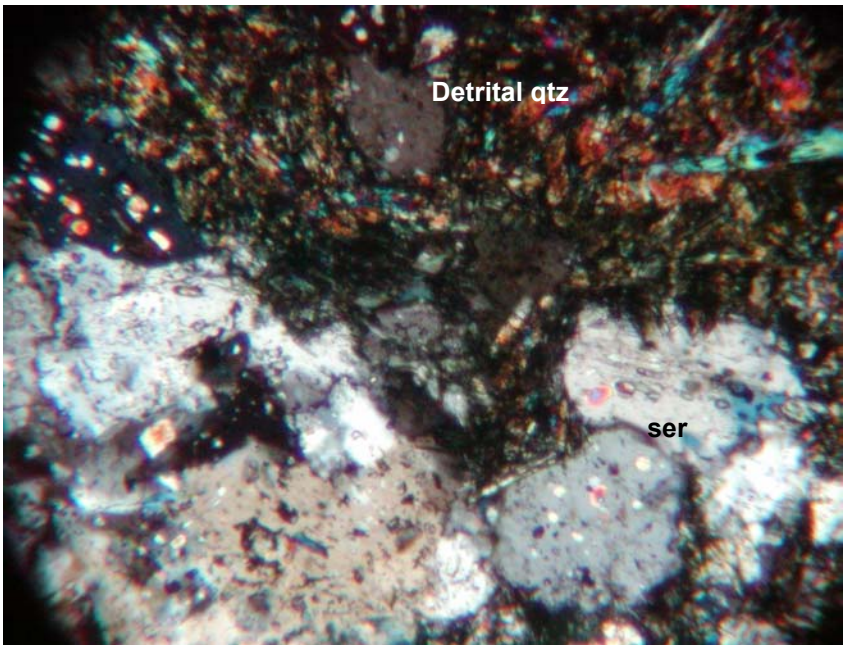
ALTERATION/METAMORPHISM:

The ubiquitous undulose extinction of the detrital quartz component and the presence of recrystallised quartz grains confirms that detrital component has undergone deformation and probable low grade metamorphism prior to incorporation in the sediment. The cementation of the matrix by calcite and the introduction of actinolite and epidote are products of an alteration overprint that has been accompanied by the introduction of quartz – carbonate – sericite veins and disseminated pyrite.

COMMENTS:

The detrital component apparent in the arenite units is dominated by quartz associated with minor potash feldspar – microcline strongly suggesting a felsic plutonic provenance. The interbedded and argillite units have been clearly penetrated by an alteration assemblage including calcite, epidote, actinolite and hematite(clay) dusting plus disseminated pyrite as a product of metasomatism. The sedimentary units lack the strong, upper amphibolite metamorphism of the underlying Paleoproterozoic suite apparent in previously described samples.

Photomicrographs



Quartz (Q) – carbonate (carb) – scaly sericite (ser) vein associated with an epidote – fibrous actinolite alteration selvedge. Crossed polars Field of view – 2 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 17, 18 & 19

TYPE: Core - TNA 002 252 m, 260 m & 283.75 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Footwall volcanic to high level intrusive lithologies - Relic amygdales are infilled by chlorite in a hematite – altered fine grained matrix in the mafic to intermediate volcanic samples. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Sections

CLASSIFICATION: *Low grade metamorphosed and possibly propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite thick flows and amygdaloidal volcanics.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite
Clinopyroxene – augite
Amphibole – actinolite
Sericite
Mg to Fe/Mg chlorite
Epidote
Carbonate – calcite
Hematite
Opaques

Opaques (2%):
Magnetite
Hematite

TEXTURE & ALTERATION:

Sample TNA 002 252.0 m is slightly coarser grained than Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite, locally pseudomorphed by actinolite. Iron ore – magnetite and hematite, occur interstitially.

Sample TNA 002 260.0 m is similar to Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite, locally replaced by epidote.

Sample TNA 002 283.75 m is similar to Sample 3 (121.94 - 122.06 m) with relic amygdales infilled by fibrous Mg chlorite in a matrix preserving fine, hematite - dusted plagioclase microlites associated with interstitial, dark glass. Hyaloclastite textures have been locally preserved with the darker glassy clasts locally present.

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been typically replaced by either actinolite and/or epidote. The plagioclase component has been pervasively hematite – dusted. Relic amygdales have been infilled by Mg to Fe/Mg chlorite, actinolite, calcite ± secondary plagioclase.

COMMENTS:

The composition of dominant plagioclase associated with interstitial, ophitic clinopyroxene (where preserved) supports an andesitic to basaltic andesite classification. The distinctive

hematite – dusted plagioclase, Mg to Fe/Mg chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 15

TYPE: Core - TNA 002 270.45 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted and possibly deformed granite containing disseminated pyrite. Fine fractures react moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor disseminated pyrite and hematite are associated with strong potash metasomatism and hematite dusting of a probable granodiorite intrusive host. Minor retrograde alteration is apparent as sericite and carbonate alteration.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	36%	**Opaques (2%):**
Potash feldspar – microcline	22%	Hematite - dominant
Plagioclase – oligoclase/albite	36%	Pyrite - subordinate
Sericite	2%	Magnetite - minor
Fe/Mg chlorite	tr	
Carbonate - calcite	1%	
Zircon	tr	
Garnet	tr	
Hematite/Clay	1%	
Opaques	2%	

TEXTURE:

A medium to coarse grained allotriomorphic granular texture has been preserved in a plutonic host comprising hematite(clay) dusted plagioclase – albite/oligoclase associated with quartz. Potash feldspar – microcline has progressively replaced the plagioclase component and is relatively clear of inclusions. The plagioclase component has been incipiently sericitised and has been locally penetrated by bladed hematite. Carbonate has penetrated along fractures in the matrix and has locally replaced feldspar. The quartz component exhibits ubiquitous undulose extinction and sutured grain boundaries confirming that deformation is closely associated with a series of microfractures cutting the matrix. Fine, euhedral zircon and anhedral garnet, locally altered to Fe/Mg chlorite, occur as accessories in the matrix.

In reflected light, subhedral pyrite is associated with fine anhedral hematite within a microshear that cuts the matrix. Anhedral hematite would appear to have locally replaced residual magnetite. There is evidence that bladed hematite has also penetrated the plagioclase component.

ALTERATION/METAMORPHISM:

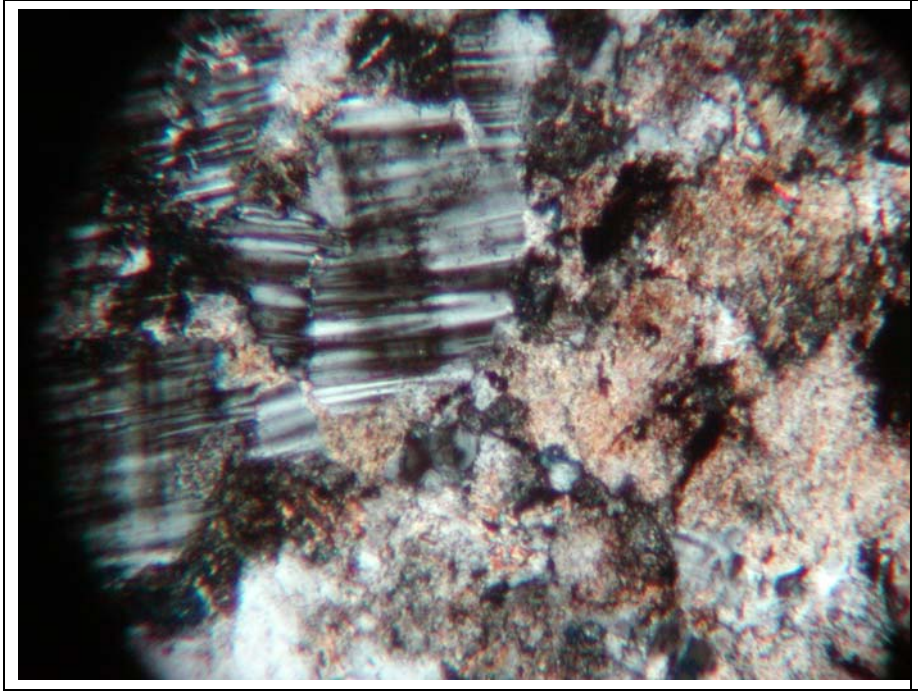
The original feldspathic component of the plutonic host was dominated by plagioclase and has been deformed and progressively replaced by potash feldspar as an (auto?)metasomatic overprint

associated with the introduction of hematite and hematite – dusting. Minor pyrite has also accompanied the metasomatic overprint. Minor carbonate has been introduced as a probable retrograde phase.

COMMENTS:

The feldspathic component of the original allotriomorphic plutonic host was probably dominated by plagioclase associated with minor potash feldspar plus magnetite consistent with a granodiorite composition. Potash feldspar – microcline has been accompanied by hematite and hematite – dusting as a potash metasomatic overprint and is associated with the introduction of sulphides – pyrite.

Photomicrograph



Secondary potash feldspar – microcline overprinting the feldspathic phase in the granodiorite host. The original feldspathic phase is hematite duste Crossed polars. Field of view – 2 mm.

Appendix 4

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SEM STUDY:

Sample 5 TNA 001 192.0 m

Host plagioclase microlites – The composition is confirmed as albite (refer Table 1).

Host clinopyroxene – The composition is confirmed as augite tending to salite (refer Table 1).

Amygdale chlorite – The composition is confirmed as Mg/Fe chlorite - ripidolite (refer Table 1).

Carbonate composition – The carbonate composition is confirmed as calcite.

Sulphide/selenide species - SEM analysis has confirmed the presence of chalcopyrite associated with rare sulphides and selenides including clausthalite (PbSe) that looks similar to galena in polished section, aguilarite (Ag_4SeS) and an unidentified lead copper (Se, Ag) sulphide (refer Plates 1 to 4, Spectra 1 to 6).

Precious metals - A thin selvedge of electrum rims agularite (Plates 3 & 4, Spectra 7).

Table 1 - Sample 5 - Plagioclase, clinopyroxene & chlorite

Compound %	**Plagioclase – albite**	**Clinopyroxene – augite/salite**	**Chlorite – ripidolite (Mg/Fe chlorite)**
SiO_2	61.52	56.9	18.61
TiO_2	0.08	0.26	<0.12
Al_2O_3	19.18	2.63	12.99
FeO	0.08	3.61	5.05
MnO	0.1	0.13	0.1
MgO	1.63	20.29	13.99
CaO	0.01	14.34	<0.04
Na_2O	17.63	2.43	2.1
K_2O	0.01	<0.03	<0.04
Cr_2O_3	<0.05	0.21	0.08
Total	100.24	100.8	52.92

Sample 11 TNA 001 289.0 m

Host plagioclase composition – The composition of the matrix plagioclase is confirmed as andesine (refer Table 2).

Host primary biotite composition – The composition of primary metamorphic biotite is confirmed as having a relatively high MgO and Na_2O content (refer Table 2).

Secondary biotite composition – The composition of secondary (retrograde?) biotite is differentiated from metamorphic primary biotite by increased MgO and decreased K_2O & TiO_2 contents (refer Table 2).

Garnet composition - The composition of primary metamorphic garnet is confirmed as almandine (refer Table 2).

High relief relic detrital mineral - is confirmed as zircon that has preserved a subrounded detrital habit (Plate).

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Accessory minerals in the matrix – include apatite, barite and hematite (Plate 5, 6 & 7).

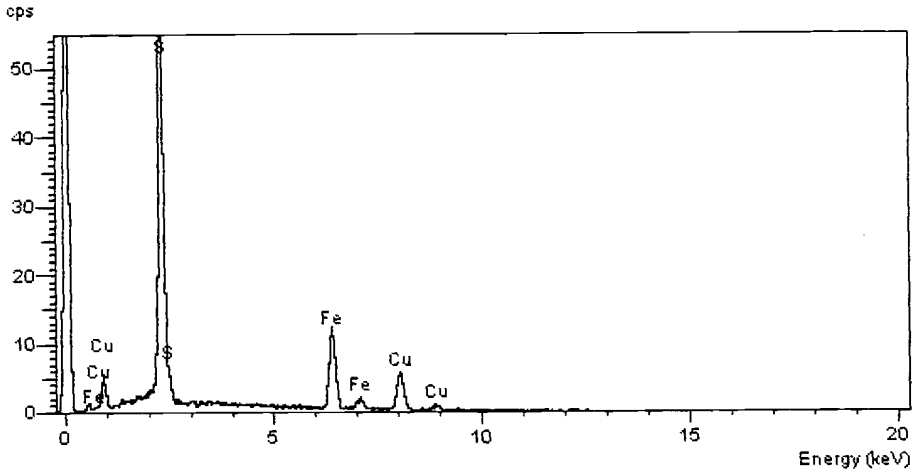
Sulphide species - SEM analysis has confirmed the presence of euhedral pyrite containing no anomalous As (Plate 5, Spectra 8). Gold was not identified.

Table 2 - Sample 11 - Plagioclase, garnet, primary and secondary biotite

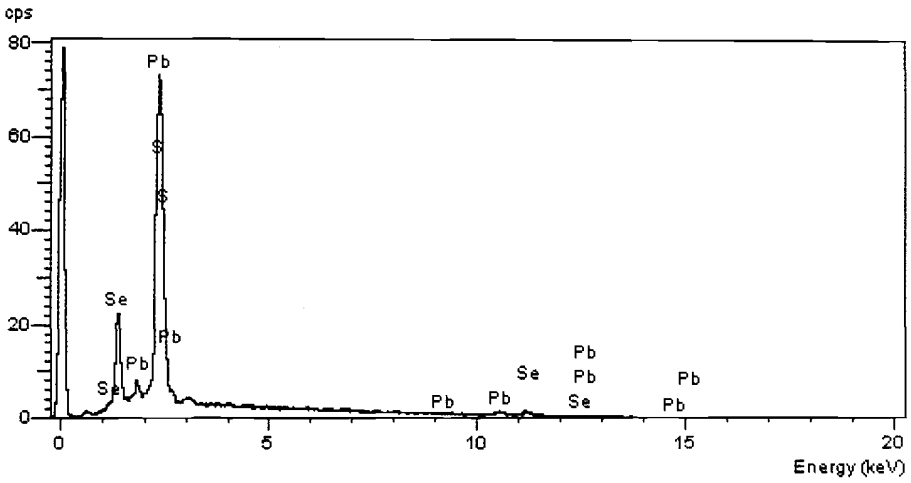
Compound %	Plagioclase – andesine	Garnet – almandine	Primary Biotite	Secondary Biotite 1	Secondary Biotite 2
SiO_2	62.67	46.62	42.39	44.9	41.16
TiO_2	<0.04	0.37	1.54	0.5	0.16
Al_2O_3	26.08	26.9	19.96	20.78	19.53
FeO	<0.02	13.73	9.16	8.85	8.82
MnO	0.05	3.07	<0.13	0.06	0.24
MgO	<0.21	5.99	15.17	17.78	20.34
CaO	4.47	1.82	0.18	<0.06	0.03
Na_2O	6.08	1.18	3.36	1.87	3.25
K_2O	0.28	<0.16	8.45	9.25	6.25
Cr_2O_3	0.12	0.09	0.16	<0.07	0.15
Total	99.75	99.77	100.37	103.99	99.93

SEM SPECTRA:

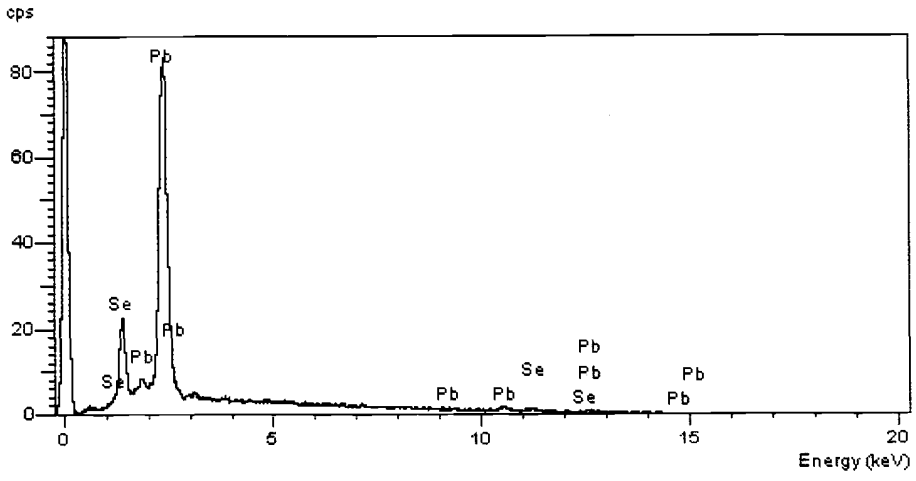
Spectra 1 - Chalcopyrite (Sample 5)



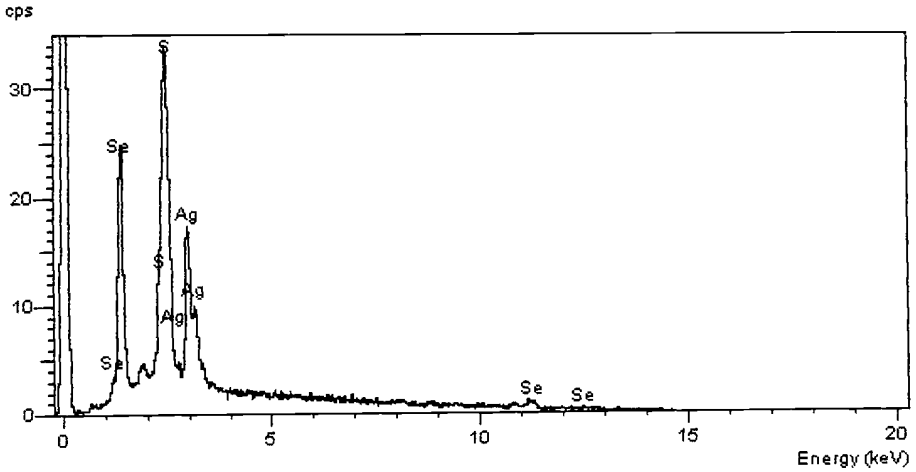
Spectra 2 – Clausthalite (lead selenide) (Sample 5)



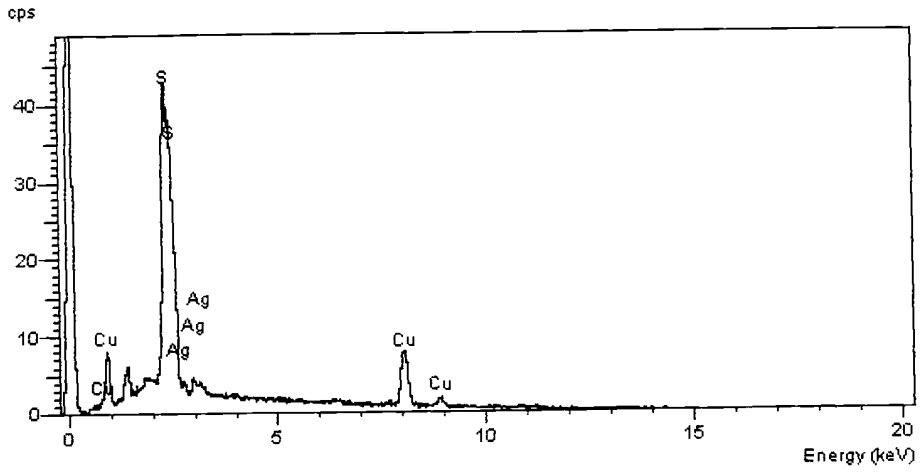
Spectra 3 – Clausthalite (lead selenide) (Sample 5)



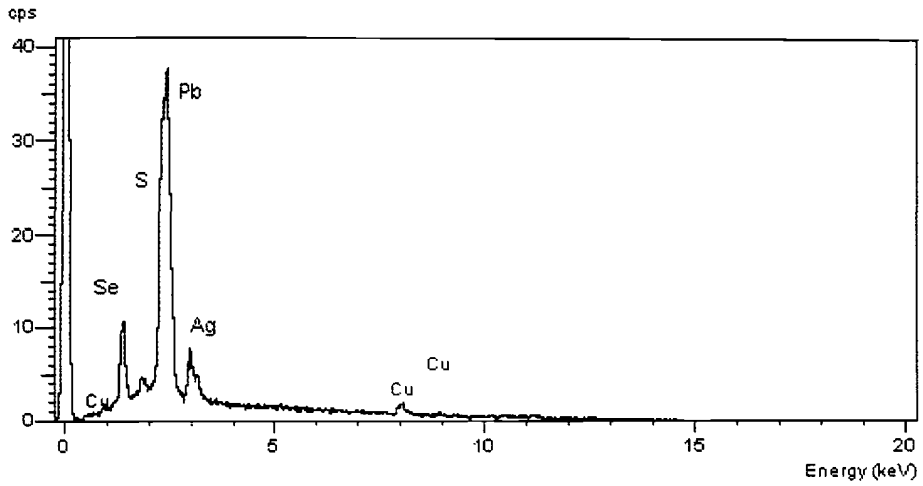
Spectra 4 - Aguilarite (silver selenium sulphide) (Sample 5)



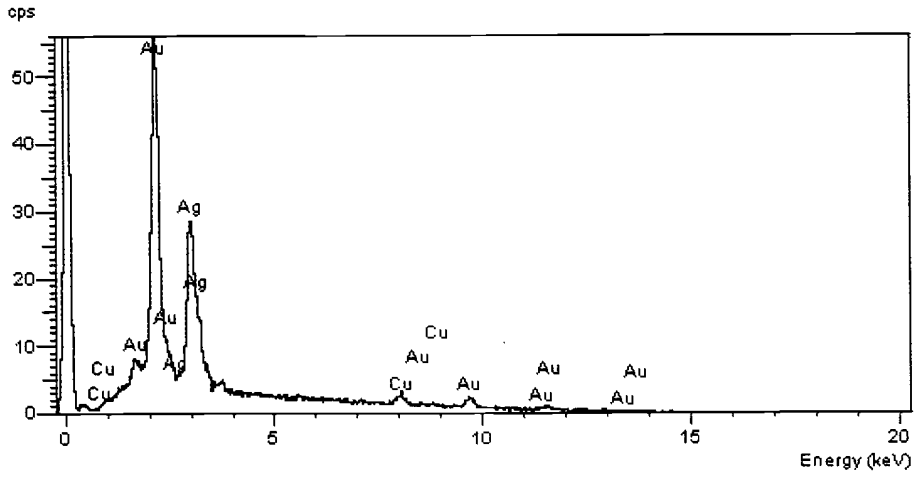
Spectra 5 - Unidentified - lead copper (selenium silver) sulphide (Sample 5)



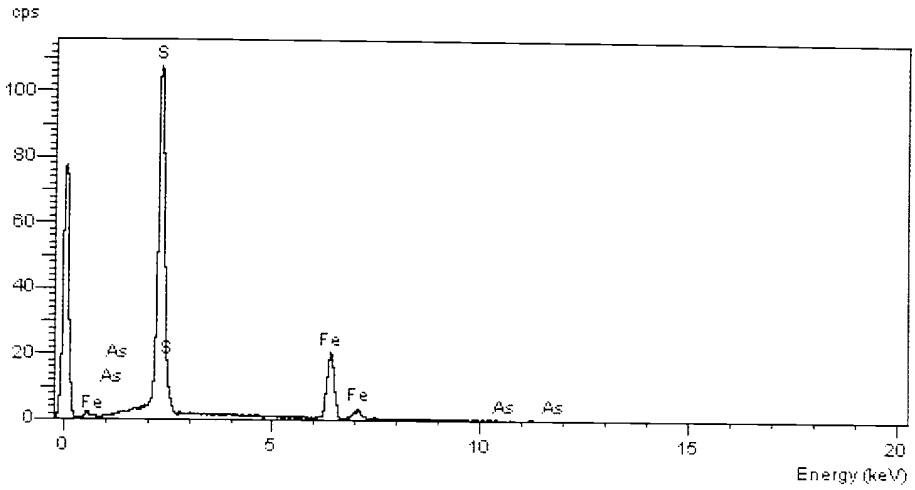
Spectra 6 - Possible clausthalite (Ag – rich) (Sample 5)



Spectra 7 - electrum (Sample 5)



Spectra 8 - Pyrite (Sample 11)



SEM PHOTOMICROGRAPHS

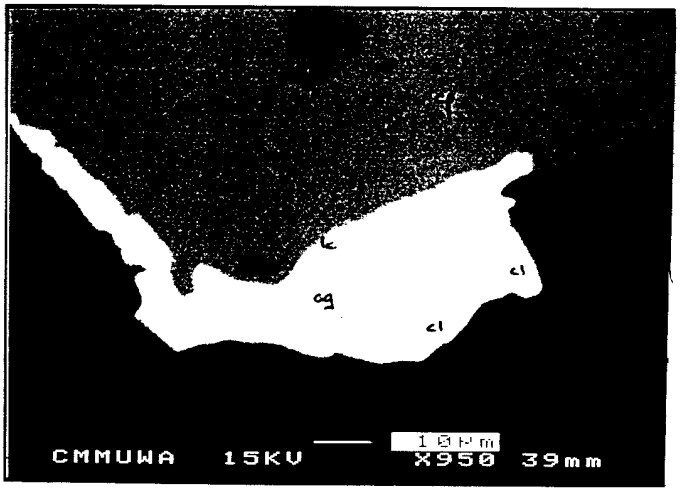


Plate 1 Sample 5 - Aguilarite (ag), lead copper (Se, Ag) sulphide (lc) and clausthalite (cl) rimming chalcopyrite (dark - cp). SEM Backscatter . Bar scale – 10 µm.

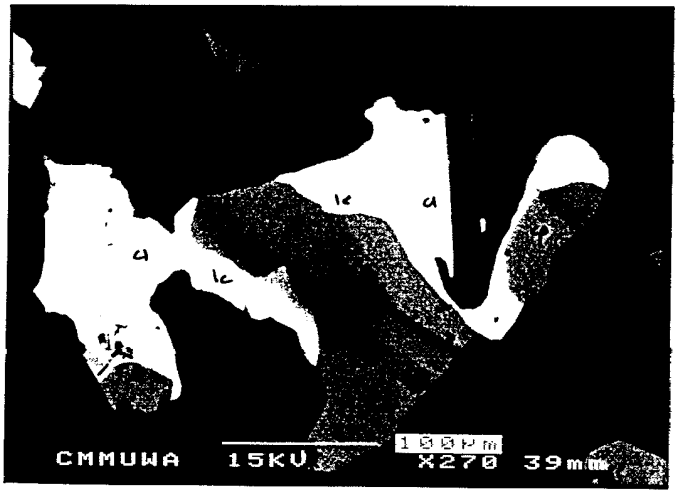


Plate 2 Sample 5 - Aguilarite (ag), lead copper (Se, Ag) sulphide (lc) and clausthalite (bright - cl) rimming chalcopyrite (dark – cp). SEM Backscatter Bar scale – 10 µm.



Plate 3 Sample 5 – Another example of aguilarite (ag), lead copper (Se, Ag) sulphide (lc) and clausthalite (bright - cl) rimming chalcopyrite (dark – cp). A thin selvage electrum (el) rims aguilarite. SEM Backscatter. Bar scale – 10 μm.

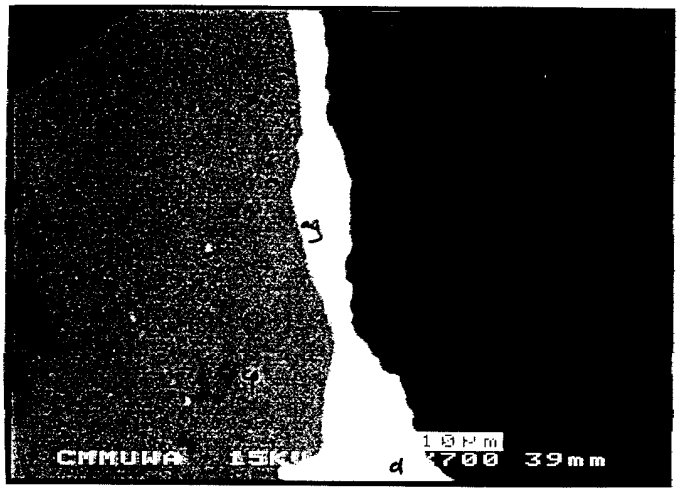


Plate 4 Sample 5 - Detail of the thin selvage of electrum (el) rimming aguilarite. SEM Backscatter. Bar scale – 10 μm.

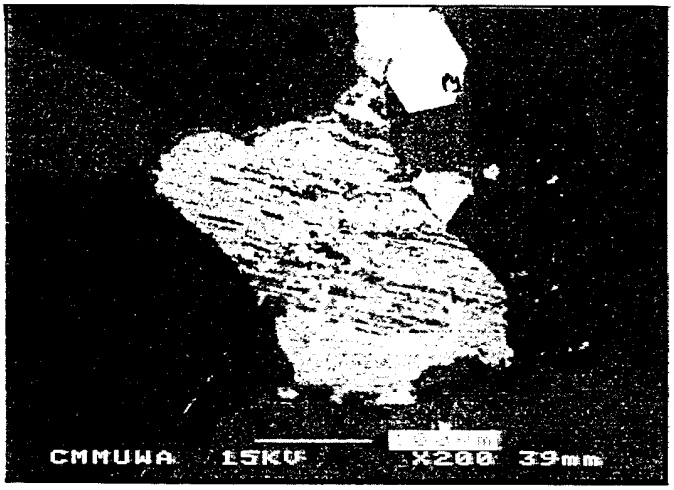


Plate 5 Sample 11 – Euhedral pyrite (py) overprinting hematite (hm) as a replacement of original magnetite. SEM Backscatter. Bar scale – 100 μm.

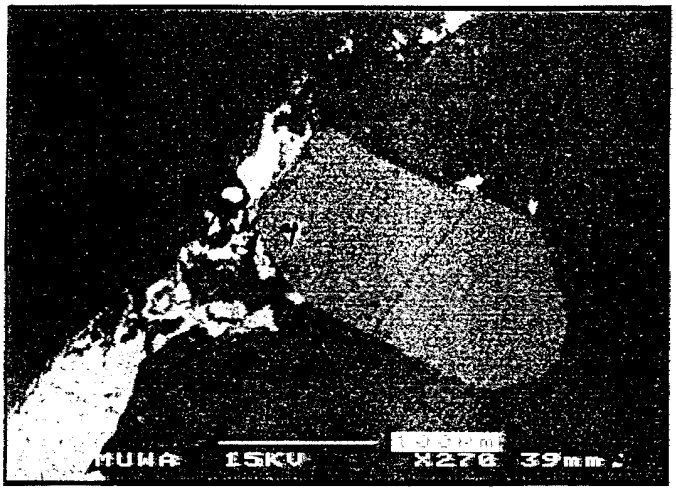


Plate 6 Sample 11 - Subhedral apatite (ap) rimmed by hematite. SEM Backscatter. Bar scale – 100 μm.



Plate 7 Sample 11 – Accessory barite (ba) and bladed or specular hematite (hm) occur in the metamorphic host. SEM Backscatter. Bar scale - 100 μm.

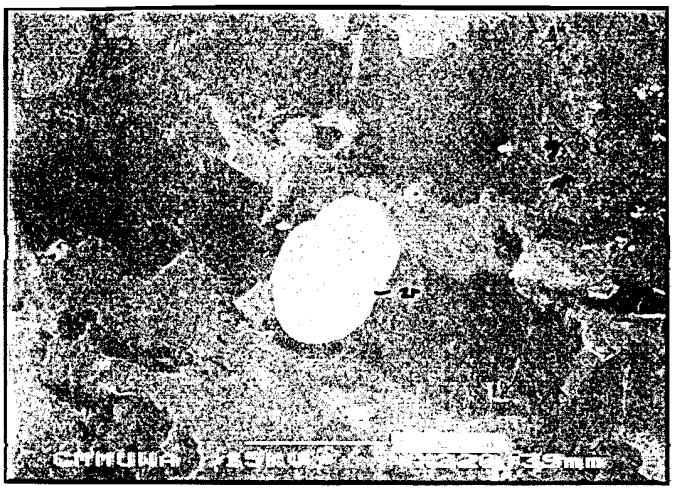


Plate 8 Sample 11 - Subrounded detrital zircon occurring in the prograde metamorphosed host. SEM Backscatter. Bar scale – 100 μm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 1

TYPE: Core - TNA 001 108.0 - 108.08 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted feldspar and amphibole phyric diorite containing trace residual leucoxene. The sample is slightly magnetic and reacts very weakly with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Pervasively propylitically altered (carbonate – Fe/Mg chlorite – sericite – epidote) porphyritic pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	75%
Carbonate - dolomite	13%
Sericite	2%
Fe/Mg chlorite	8%
Epidote	1%
Leucoxene	tr
Opaques - magnetite	1%
- limonite/goethite	tr

TEXTURE:

Medium grained, equant phenocrysts have been pseudomorphed by carbonate – dolomite and have preserved a subophitic texture in an altered igneous matrix. The subophitic texture suggests a probable clinopyroxene precursor. The matrix has preserved randomly oriented lathlike plagioclase associated with interstitial fibrous Fe/Mg chlorite representing an alteration phase. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. Fine anhedral epidote has also locally replaced plagioclase. A relic, ophitic igneous phase, possibly clinopyroxene occurring in the matrix, has been ubiquitously replaced by Fe/Mg chlorite as well as fine micritic carbonate aggregates. Fine, interstitial magnetite represents an accessory phase and has been locally replaced by limonite/goethite. Leucoxene has also replaced magnetite.

ALTERATION/METAMORPHISM:

Relic igneous textures have been preserved in an altered matrix and confirms an original, low metamorphic grade. Pervasive alteration to carbonate, Fe/Mg chlorite, sericite and minor epidote, along with hematite dusting, is consistent with propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The original subophitic phyric clinopyroxene has been pervasively replaced by carbonate in a matrix dominated by lathlike plagioclase associated with an original interstitial ferromagnesian phase and is consistent with a porphyritic pyroxene diorite to possible dolerite classification. The intensity of hydrothermal propylitic alteration and hematite dusting is noteworthy and provides evidence that the assemblage occurs peripherally to a larger alteration assemblage.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 2

TYPE: Core - TNA 001 110.42 - 110.46 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Porphyritic diorite or dolerite containing trace residual leucoxene. The matrix is hematite dusted. The sample is moderately magnetic and does not react with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (actinolite) and subsequently propylitically altered (carbonate – Fe/Mg chlorite – sericite – epidote) porphyritic pyroxene diorite to possible dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – andesine	66%
Clinopyroxene – augite	8%
Amphibole – tremolite/actinolite	4%
Sericite	2%
Fe/Mg to Mg chlorite	12%
Epidote	4%
Carbonate – dolomite	2%
Leucoxene	tr
Opaques - magnetite	2%

TEXTURE:

The overall texture is similar to Sample 1 although medium grained, equant clinopyroxene - augite phenocrysts have been preserved. The clinopyroxene phenocrysts have preserved a subophitic to ophitic texture and have been progressively replaced by tremolite/actinolite and fibrous Mg chlorite. The matrix has preserved randomly oriented lathlike plagioclase - andesine associated with the presence of occasional tabular plagioclase phenocrysts. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. A subordinate interstitial ferromagnesian phase has been pseudomorphed by dark fibrous Fe/Mg chlorite and residual Fe oxides (limonite or hematite). Anhedral epidote aggregates, closely associated with fibrous Fe/Mg chlorite and colloform – like carbonate aggregates or stringers have penetrated the matrix. Minor residual magnetite occurs as an interstitial phase.

ALTERATION/METAMORPHISM:

Like the previous sample, the preservation of relic igneous textures as well as original clinopyroxene phenocrysts confirms an original, low metamorphic grade. Progressive uralitisation of replacement of phyric clinopyroxene by tremolite/actinolite is consistent with a greenschist facies regime that has been progressively retrogressed by Mg chlorite as a retrograde event. Retrograde alteration appears to have been accompanied by sericitisation of plagioclase, the development of epidote – Fe/Mg chlorite – carbonate stringers in the matrix plus hematite dusting as a product of propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The preservation of original subophitic phyric clinopyroxene in a matrix dominated by lathlike plagioclase – andesine plus an interstitial ferromagnesian phase is consistent with a porphyritic pyroxene diorite to possible dolerite classification. The diorite classification is supported by the andesine (An_{35-40}) composition of the dominant feldspathic phase. Retrograde alteration of the assemblage is interpreted to have been accompanied by hydrothermal propylitic alteration and hematite dusting of the high level intrusive host. The well developed epidote – Fe/Mg chlorite – carbonate stringers are a thought to be a product of propylitic alteration.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 4

TYPE: Core - TNA 001 137.46 - 137.56 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic chloritised phenocrysts and chlorite – trace pyrite filled vughs occur in a possible altered diorite host preserving lathlike plagioclase. Trace residual leucoxene. The sample is magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (albite – actinolite) and subsequently retrogressed and possibly propylitically altered (Fe/Mg chlorite – actinolite – epidote – carbonate) pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	63%
Amphibole – actinolite	14%
Sericite	tr
Mg/Fe to Fe/Mg chlorite	7%
Epidote	2%
Carbonate – calcite	2%
Leucoxene	tr
Opaques - magnetite	2%
- pyrite	tr

TEXTURE:

The overall texture of the matrix is similar to Samples 1 & 2 with randomly oriented lathlike to tabular plagioclase - albite closely associated with ragged actinolite occurring as an interstitial to locally ophitic phase. Actinolite has probably replaced original clinopyroxene and has, in turn, been replaced by fibrous Mg/Fe chlorite as a retrograde phase. The plagioclase component has been incipiently altered to fine granular epidote and minor sericite (saussurite). Distinctive vughs in the matrix have been infilled by fibrous Fe/Mg chlorite closely associated with bladed to prismatic actinolite as well as colloform – textured, micritic carbonate. Relic magnetite has been locally preserved in the vughs and is similar in habit to interstitial magnetite occurring in the matrix. The magnetite component is rimmed by Fe oxides (hematite). Accessory pyrite also occurs within the vughs.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 4

TYPE: Core - TNA 001 137.46 - 137.56 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic chloritised phenocrysts and chlorite – trace pyrite filled vughs occur in a possible altered diorite host preserving lathlike plagioclase. Trace residual leucoxene. The sample is magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Thin Section

CLASSIFICATION: *Initially prograde, greenschist facies metamorphosed (albite – actinolite) and subsequently retrogressed and possibly propylitically altered (Fe/Mg chlorite – actinolite – epidote – carbonate) pyroxene diorite to dolerite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	63%
Amphibole – actinolite	14%
Sericite	tr
Mg/Fe to Fe/Mg chlorite	7%
Epidote	2%
Carbonate – calcite	2%
Leucoxene	tr
Opaques - magnetite	2%
- pyrite	tr

TEXTURE:

The overall texture of the matrix is similar to Samples 1 & 2 with randomly oriented lathlike to tabular plagioclase - albite closely associated with ragged actinolite occurring as an interstitial to locally ophitic phase. Actinolite has probably replaced original clinopyroxene and has, in turn, been replaced by fibrous Mg/Fe chlorite as a retrograde phase. The plagioclase component has been incipiently altered to fine granular epidote and minor sericite (saussurite).

Distinctive vughs in the matrix have been infilled by fibrous Fe/Mg chlorite closely associated with bladed to prismatic actinolite as well as colloform – textured, micritic carbonate. Relic magnetite has been locally preserved in the vughs and is similar in habit to interstitial magnetite occurring in the matrix. *Both magnetite and relic plagioclase laths, as part of the original matrix, can also occur within the vughs supporting a replacement origin for the vughs.* The magnetite component is rimmed by Fe oxides (hematite). Accessory pyrite also occurs within the vughs.

ALTERATION/METAMORPHISM:

The preservation of relic igneous textures confirms that the metamorphic grade is low with replacement of original clinopyroxene by actinolite and the presence of albite consistent with a greenschist facies regime. Progressive Mg/Fe chlorite – epidote alteration and the development of distinctive vughs infilled by Fe/Mg chlorite – actinolite – carbonate would appear to represent

ongoing retrograde alteration – possibly propylitic hydrothermal alteration. The assemblage lacks evidence of tectonism.

COMMENTS:

The preservation of original subophitic textures after original clinopyroxene in a fine to medium grained matrix dominated by lathlike plagioclase – albite plus interstitial magnetite is consistent with a pyroxene diorite to dolerite classification and represents either a high level intrusive or thick volcanic flow. Hydrothermal propylitic alteration may have accompanied retrograde alteration of the assemblage and is thought to be associated with either the development of the vughs, or the potential enlargement of relic amygdales. Trace pyrite also occurs within the vughs.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 5

TYPE: Core - TNA 001 192 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Relic amygdales are infilled by chlorite in a hematite – altered, fine grained matrix in the mafic to intermediate volcanic host that has retained relic plagioclase microlites. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Low grade metamorphosed and propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite	55%	**Opaques (2%):**
Secondary plagioclase - albite	7%	Magnetite - dominant
Clinopyroxene – augite	17%	Chalcopyrite - minor
Amphibole – actinolite	2%	Galena - tr
Sericite	tr	Tetrahedrite/
Mg/Fe to Fe/Mg chlorite	12%	tennantite tr
Epidote	2%	Electrum - tr
Carbonate – calcite	1%	
Hematite	3%	
Opaques	2%	

TEXTURE:

Broadly similar to Sample 3 (TNA 001 121.94 - 122.06 m), with relic amygdales infilled by fibrous Mg/Fe chlorite that has been progressively replaced by Fe/Mg chlorite exhibiting a distinctive "Berlin Blue" birefringence. Bladed actinolite, secondary plagioclase and fibrous carbonate also occur within the relic amygdales. The host matrix is dominated by fine, randomly distributed, stubbly plagioclase microlites associated with interstitial fine grained, ophitic clinopyroxene – augite. Fine, anhedral epidote, fibrous chlorite and fine, needle-like actinolite represent minor alteration phases in the matrix.

In reflected light, fine anhedral magnetite occurs interstitially. Sulphides have been preserved in one amygdale and are intimately associated with the chlorite, epidote, actinolite, carbonate and secondary plagioclase alteration assemblage within the vugh. Sulphides are dominated by chalcopyrite exhibiting simple intergrowths with galena and tennantite/tetrahedrite. Tennantite/tetrahedrite exhibits exsolution textures. Trace electrum (?) rims both tennantite/ tetrahedrite and chalcopyrite. Most silicate phases in the matrix have been stained by Fe – oxide - hematite, apparent in reflected light.

ALTERATION/METAMORPHISM:

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been largely preserved and has been incipiently replaced by dusted epidote, fibrous Mg/Fe chlorite and needle-like amphibole, similar to the propylitic alteration assemblage that infills relic amygdales. Hematite dusting has accompanied low grade alteration.

COMMENTS:

The composition of the volcanic host that is dominated by plagioclase associated with interstitial, ophitic clinopyroxene, supports an andesitic to basaltic andesite classification. The distinctive hematite – dusted chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales as well as minor sulphides including chalcopyrite, galena and tennantite/tetrahedrite and possibly, electrum. The sulphide, electrum and silicate compositions should be checked by SEM.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 6

TYPE: Core - TNA 001 207.0 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted, fine grained diorite or dolerite. A possible relic phyric phase has been replaced by chlorite. The sample is slightly magnetic and does not reacts very with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Pervasively propylitically altered (hematite dusted – epidote – Mg/Fe chlorite – sericite – actinolite) pyroxene diorite.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – albite	67%	**Opaques (2%):**
Amphibole – actinolite	18%	Magnetite - dominant
Sericite	2%	Hematite - minor
Mg/Fe chlorite	1%	
Epidote	9%	
Leucoxene	tr	
Hematite	1%	
Opaques	2%	

TEXTURE:

Relic textures have been preserved and include fine to medium grained, interlocking lathlike plagioclase associated with interstitial amphibole – actinolite that has replaced original clinopyroxene. The plagioclase component has been ubiquitously incipiently sericitised and dusted by hematite. Fine anhedral epidote aggregates, locally associated with bladed actinolite and fibrous Mg/Fe chlorite, occur as segregations overprinting the matrix as an alteration phase. Fine grained phyric magnetite is dispersed through the matrix.

In reflected light, magnetite occurs as a subhedral phyric phase dispersed through the matrix and is closely associated with matrix plagioclase. Magnetite can be rimmed by hematite as an alteration phase. Hematite has highlighted thin-walled boxworks, possibly replacing an original ferromagnesian phyric phase (clinopyroxene?) in the matrix.

ALTERATION/METAMORPHISM:

Like the samples described earlier, the preservation of relic igneous textures confirms a low metamorphic grade. The mafic host has been clearly overprinted by a propylitic hydrothermal alteration assemblage including hematite – dusted plagioclase, plus distinctive aggregates of epidote, Mg/Fe chlorite, sericite and minor actinolite. The assemblage lacks evidence of tectonism.

COMMENTS:

The dominance of plagioclase in the matrix where original interstitial clinopyroxene has been replaced by amphibole (or uralite) supports a possible pyroxene diorite precursor that has preserved phyric magnetite. The assemblage is thought to be co-magmatic with the basaltic andesite described in Sample 5. The intensity of hydrothermal propylitic alteration and hematite dusting is noteworthy.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 7

TYPE: Core - TNA 001 226.36 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite altered mafic volcanic or fine grained intrusive. Fine, subhedral pyrite is distributed through the matrix. The sample is very weakly magnetic and reacts moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *An interpreted quartz feldspar amphibole gneissic precursor has been strongly propylitically altered and albitised (hematite dusted secondary plagioclase – secondary quartz, Mg/Fe chlorite – sericite – epidote), associated with introduction of trace sulphides including pyrite and chalcopyrite.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	8%	**Opaques (2%):**
Plagioclase – albite	73%	Magnetite - tr
Carbonate – ankerite	6%	Pyrite - tr
Sericite	3%	Chalcopyrite - tr
Mg/Fe chlorite	4%	Martite (hematite) - dominant
Epidote	2%	
Hematite	2%	
Opaques	2%	

TEXTURE:

Relic textures have been largely obliterated in an altered matrix where medium grained, equant and anhedral secondary plagioclase, typically associated with scaly Mg/Fe chlorite aggregates, has probably replaced an original feldspathic phase in the matrix. The plagioclase component has also been pervasively hematite – dusted and incipiently altered to sericite. Plagioclase is associated with interstitial quartz and a possible original ferromagnesian phase that has been replaced by fibrous Mg/Fe chlorite interlayered with carbonate and closely associated with granular hematite aggregates. Fine, anhedral epidote aggregates are typically associated with the chlorite – carbonate pseudomorphs after the ferromagnesian phase – possibly amphibole. The overall fabric is considered to be relic granoblastic

In reflected light, original subhedral magnetite has been replaced by martite (hematite). Fine grained, subhedral to euhedral pyrite (pyritahedron) and trace anhedral chalcopyrite are dispersed through the matrix. Accessory sulphides were not observed.

ALTERATION/METAMORPHISM:

The intermediate to mafic host has retained an indistinct granoblastic texture suggesting a high grade metamorphic – upper amphibolite facies precursor. The host has been pervasively altered or retrogressed to a hematite dusted secondary plagioclase – albite, Mg/Fe chlorite – carbonate – sericite – epidote assemblage that would appear to have accompanied progressive albitisation of the host as part of a propylitic overprint.

COMMENTS:

The overall medium grained, granoblastic fabric and probable composition of plagioclase, minor interstitial quartz and a ferromagnesian phase – possibly amphibole, strongly suggests a quartz feldspar amphibole gneissic precursor and may represent a metamorphosed intermediate volcanic or intrusive. The alteration overprint is significant and is dominated by hematite dusted plagioclase associated with secondary quartz, Mg/Fe chlorite, sericite, carbonate and epidote as part of a propylitic assemblage. Finely disseminated pyrite and trace chalcopyrite represent part of the alteration assemblage.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

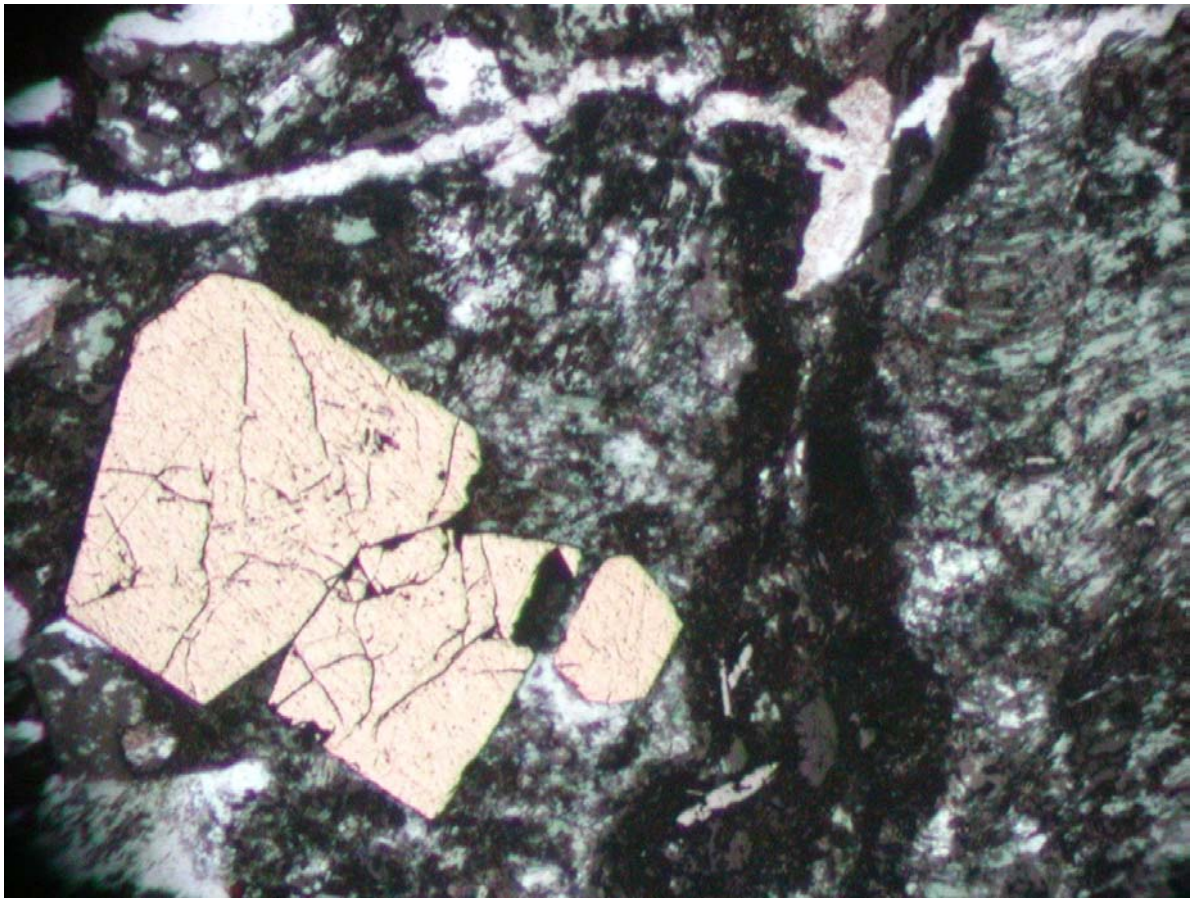


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 8

TYPE: Core - TNA 001 267.1 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite altered, mafic to intermediate fine grained intrusive that exhibits a strong hematite alteration selvedge adjacent to a mineralised (pyrite) vein. The vein reacts strongly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *An original quartzofeldspathic – biotite gneissic assemblage with a possible felsic tuffaceous progenitor has been pervasively retrogressed (hematite dusting – sericite – Fe and Mg/Fe chlorite). A mineralised (pyrite, bornite, chalcopyrite) quartz – carbonate – secondary plagioclase – epidote) vein cuts the matrix and is associated with a hematite-dusted selvedge.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	18%	Quartz	69%	**Opaques (up to 3%):**
Plagioclase – albite/ dominant oligoclase	68%	Sundry plagioclase – albite	10%	Pyrite - dominant
Sericite	2%	Carbonate – calcite	17%	Chalcopyrite - tr
Biotite to Fe chlorite	9%	Epidote	3%	Bornite - minor
Hematite - tr		Mg/Fe chlorite	1%	
Mg/Fe chlorite	tr	Sericite	tr	
Zircon	tr	Opaques	3%	
Apatite	tr			
Hematite	3%			
Opaques	tr			

TEXTURE:

A relic, fine to medium grained, granoblastic texture has been preserved by equant to anhedral plagioclase associated with interstitial quartz. The plagioclase component has been ubiquitously incipiently sericitised and hematite dusted. Quartz exhibits ubiquitous undulose extinction. Anhedral platy biotite occurs interstitially in the matrix and has been locally hematite dusted and altered to Fe chlorite and Mg/Fe chlorite adjacent to a vein cutting the matrix. Hematite dusting increases as an alteration selvedge to the vein and is locally interlayered with crenulated Mg/Fe chlorite along microshears that appear to have accompanied the vein. Fine grained (up to 80µm), subrounded to rounded (detrital) zircon occurs as an accessory in the matrix.

The quartz vein cutting the matrix comprises an anhedral mosaic of quartz associated with carbonate – calcite and secondary plagioclase, minor anhedral epidote and sulphides (opaque). Granular hematite aggregates (opaque) also forms part of the vein assemblage and is particularly associated with secondary plagioclase.

In reflected light, minor euhedral pyrite and fine grained chalcopyrite are distributed through the altered, hematite – dusted selvedge. Pyrite can contain trace chalcopyrite inclusions. The vein similarly contains disseminated euhedral pyrite (pyritahedra) as well as anhedral bornite aggregates, as well as fine grained chalcopyrite. Fine anhedral hematite is also apparent.

ALTERATION/METAMORPHISM:

The relic granoblastic texture recognised in the host provide evidence for a high grade metamorphic – upper amphibolite facies quartzofeldspathic precursor. The assemblage has been pervasively retrogressed (sericite - Fe and Mg/Fe chlorite) and hematite - dusted as an alteration overprint associated with the introduction of mineralised veins as a syn-tectonic phase.

COMMENTS:

The preservation of a granoblastic texture in the host is noteworthy and strongly suggests a quartzofeldspathic gneissic precursor with presence of fine detrital zircon indicating a possible felsic tuffaceous progenitor, possibly similar to the quartz – albite lithologies in the Willyama Group in Broken Hill. Ongoing retrograde alteration is closely associated with hematite dusting and sericitisation, as well as possible albitisation of the feldspar component. Biotite has been replaced by Fe chlorite and Mg/Fe chlorite as part of the propylitic alteration overprint. Significantly, Cu sulphides, occurring as bornite and chalcopyrite, are closely associated with veining and alteration as a probably brittle fracturing event.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic

overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

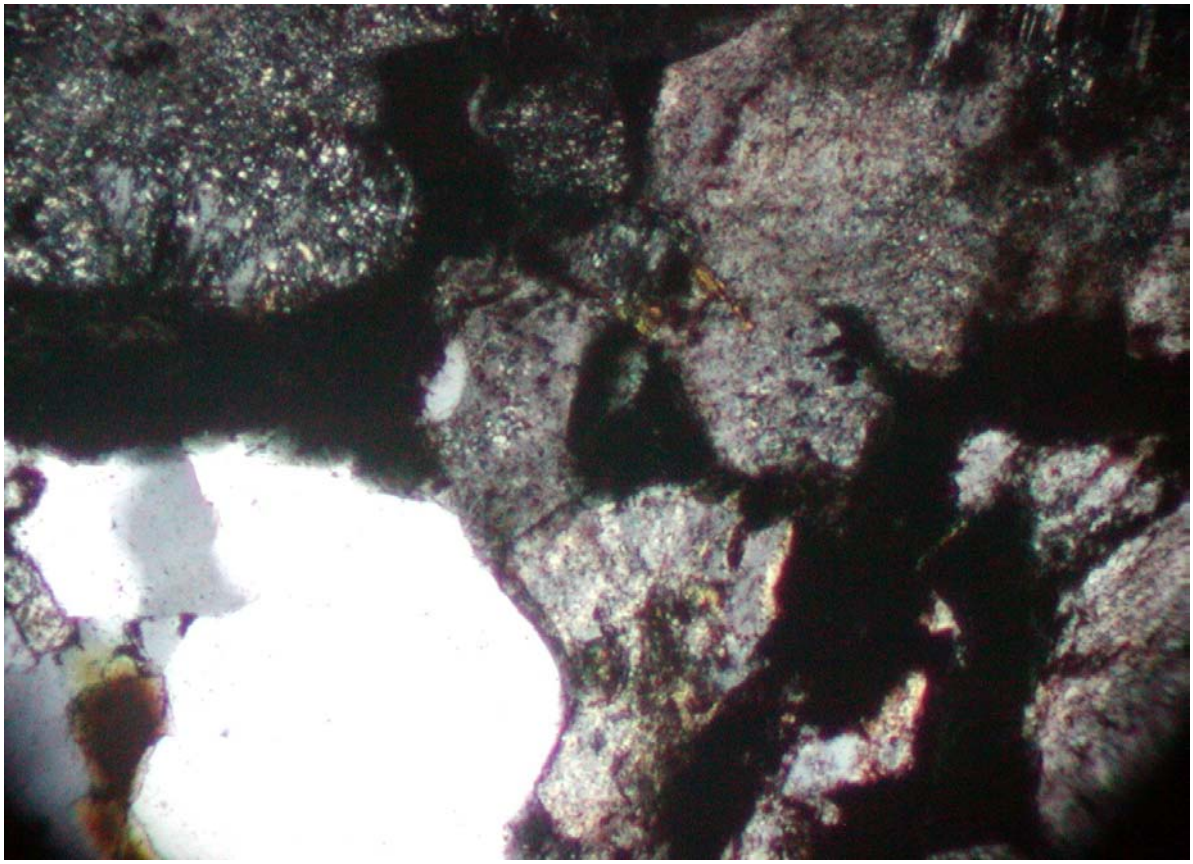


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 9

TYPE: Core - TNA 001 273.7 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Fine grained blebby sulphides occur in a weakly hematite - dusted amphibolite host. The sample reacts weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Blebby sulphides including chalcopyrite and minor pyrite are associated with specular hematite as part of a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite – ferroactinolite – epidote) overprint of a prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	6%	**Opaques (3%):**
Plagioclase – andesine (An_{45})	5%	Hematite - minor
- albite	28%	Chalcopyrite - dominant (2%)
Amphibole – hornblende	53%	Pyrite - minor
- ferroactinolite	3%	
Sericite	2%	
Mg/Fe chlorite	2%	
Epidote	tr	
Hematite	tr	
Opaques	3%	

TEXTURE:

A relic granoblastic texture has been preserved with the presence of xenoblastic and locally poikiloblastic amphibole associated with interstitial anhedral plagioclase. The khaki – light brown pleochroic metamorphic hornblende component exhibits a weakly oriented gneissic texture and has been incipiently retrogressed to blue-green pleochroic ferroactinolite along grain margins. The plagioclase component has locally preserved a prograde metamorphic andesine composition but has been largely replaced by albite and pervasively incipiently altered to fibrous sericite. Anhedral quartz occurs interstitially and exhibits ubiquitous undulose extinction and local recrystallisation or annealing textures.

Sulphide (opaque) aggregates as blebs and stringers, are rimmed by a retrograde assemblage including anhedral epidote, platy Mg/Fe chlorite and secondary plagioclase (albite).

In reflected light, blebby sulphides are dominated by chalcopyrite that is moulded around specular hematite. Minor subhedral pyrite is similarly moulded around hematite,

and has, in turn been enclosed by chalcopyrite. The chalcopyrite grains can exhibit corroded grain boundaries. Porous hematite has also probably replaced original magnetite that may have represented a precursor to the mineralisation.

ALTERATION/METAMORPHISM:

The preservation of a granoblastic texture in an assemblage, dominated by hornblende confirms a high grade metamorphic – amphibolitic assemblage. The host has been pervasively altered or retrogressed, with the presence of hematite - dusted, sericitised plagioclase and ferroactinolite - Mg/Fe chlorite altered amphibole that would appear to have accompanied the introduction of sulphides. The mineralisation shows a paragenetic sequence of magnetite (?), followed by hematite, followed by pyrite, followed by chalcopyrite.

COMMENTS:

The medium grained granoblastic fabric and amphibole – plagioclase – minor quartz composition confirms an amphibolitic classification. The intensity of the alteration overprint is less than that observed in Sample 8 (TNA 001 – 267.1 m) although mineralisation including blebby chalcopyrite clearly forms part of the retrograde alteration overprint.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

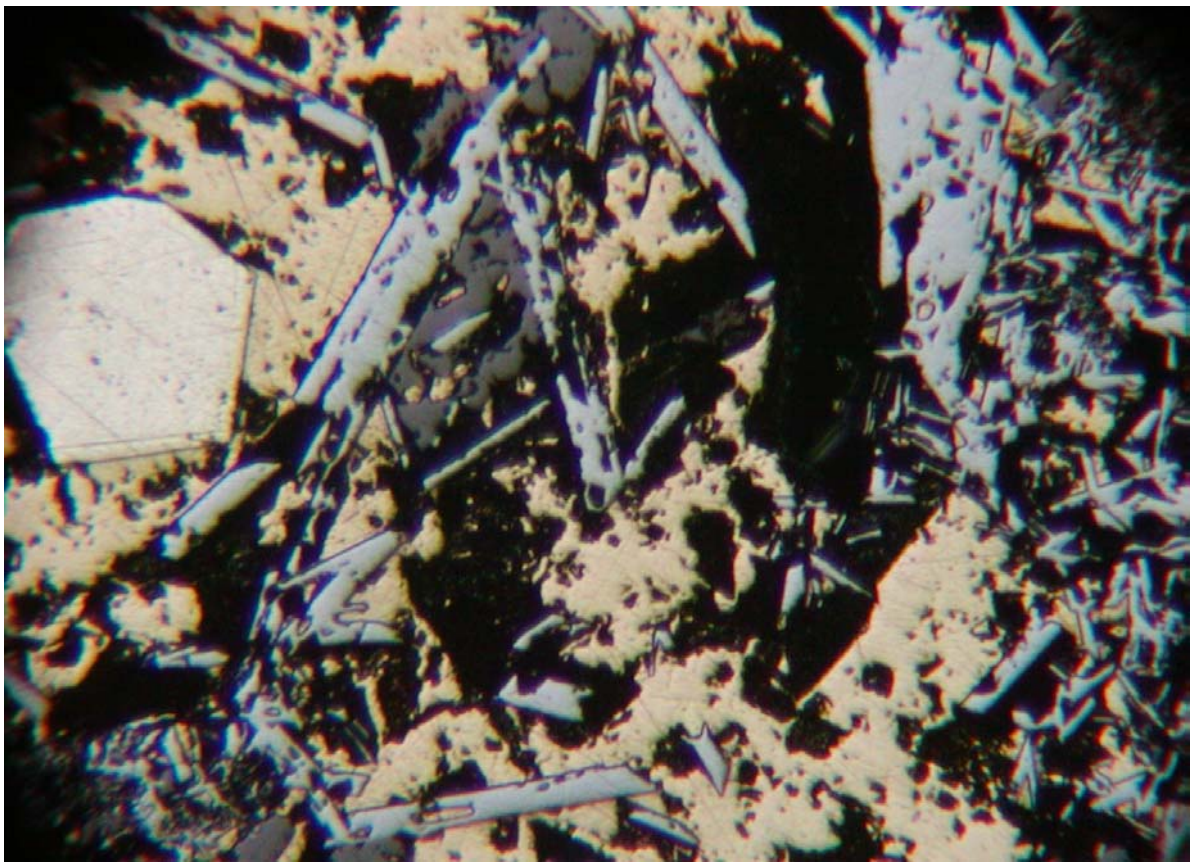


Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 10

TYPE: Core - TNA 001 275.8 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: A carbonate vein cuts an altered amphibolite host. The carbonate vein reacts strongly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Blebby sulphides including chalcopyrite and minor pyrite are associated with specular hematite as part of a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite – ferroactinolite – epidote)overprint of a prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	13%	Quartz	20%	**Opaques (1 - 2%):**
Plagioclase – andesine dominant	28%	Carbonate - calcite	75%	Chalcopyrite -
Sericite	5%	Mg/Fe chlorite	3%	Pyrite - tr
Mg/Fe chlorite	54%	Opaques	2%	Hematite - tr
Hematite	tr			
Leucoxene	tr			
Opaques	1%			

TEXTURE:

The metamorphic host has been pervasively altered, although a relic granoblastic texture has been preserved. Anhedral plagioclase has been pervasively incipiently sericitised and is associated with interstitial anhedral quartz preserving ubiquitous undulose extinction and recrystallisation textures. The plagioclase component has been weakly hematite – dusted. Residual leucoxene is dusted through chlorite pseudomorphs after original amphibole. Secondary quartz aggregates have locally replaced the plagioclase component. Leucoxene has also replaced magnetite in the matrix.

The tensional vein cutting the matrix comprises an anhedral carbonate mosaic closely associated with anhedral quartz. Fibrous Mg/Fe to Fe/Mg chlorite occurs as a selvedge to the vein and as clumps within the vein. The quartz component has preserved subhedral bladed forms and relic growth zoning textures confirming initial open fracture crystallisation.

In reflected light, fine anhedral chalcopyrite is distributed through the carbonate – quartz vein and the altered matrix. Fine, subhedral pyrite and hematite represent minor phases in the matrix.

ALTERATION/METAMORPHISM:

The preservation of a relic granoblastic texture confirms a high grade metamorphic precursor. The host has been pervasively hydrothermally altered or retrogressed to hematite - dusted, sericitised plagioclase - Mg/Fe to Fe/Mg chlorite – secondary quartz assemblage consistent with propylitic alteration. The carbonate – quartz vein would appear to represent a continuum of the alteration assemblage.

COMMENTS:

Chlorite is interpreted to have replaced amphibole that composed up to 55% of the metamorphic host. The presence of original plagioclase and interstitial quartz confirms that the host had a similar composition to the amphibolite described in Sample 9 (TNA 001 273.7m). The intensity of propylitic alteration is noteworthy and is clearly associated with the introduction of mesothermal (?) carbonate – quartz – chlorite veins and minor mineralisation including chalcopyrite and trace pyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 11

TYPE: Core - TNA 001 289.0 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Chlorite – carbonate veining associated with pyrite euhedra occurring in an altered, hematite - stained quartz feldspar garnet gneiss. The vein reacts moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor arsenian pyrite and trace chalcopyrite plus minor hematite are associated with a hydrothermal retrograde alteration (sericite – Mg/Fe chlorite) selvedge associated with a cross-cutting carbonate – Mg/Fe chlorite vein in a prograde quartz – plagioclase (andesine) – biotite – garnet – apatite gneissic assemblage, stable under upper amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Matrix:		**Vein:**		
Quartz	22%	Carbonate – calcite	84%	**Opaques (2%):**
Plagioclase – andesine (An_{32})	48%	Plagioclase - albite	4%	Pyrite - dominant
- albite	8%	Mg/Fe chlorite	7%	Chalcopyrite - tr
Biotite	9%	Opaques	5%	Hematite - minor
Sericite	2%			
Mg/Fe chlorite	3%			
Garnet	4%			
Apatite	2%			
Hematite	tr			
Opaques	2%			

TEXTURE:

A variable, fine to medium grained granoblastic texture has been preserved in a quartzofeldspathic host containing anhedral or xenoblastic plagioclase – andesine associated with interstitial quartz and platy biotite. Occasional garnet xenoblasts are distributed through the matrix. Fine, xenoblastic to subidioblastic apatite is distributed through the matrix as an important accessory. The plagioclase has been incipiently sericitised with increased sericitisation and hematite dusting occurring adjacent to a cross-cutting vein. Plagioclase has also been locally albitised and has formed distinctive granophyric textures with quartz.

The cross – cutting vein comprises fine anhedral carbonate mosaic associated with fibrous Mg/Fe chlorite and rimmed by secondary plagioclase – albite. Euhedral sulphides (opaque– pyrite) occur within the vein.

In reflected light, euhedral arsenian pyrite, exhibiting a weak anisotropism, occurs within the cross cutting carbonate vein. Hematite occurs as an accessory in the vein. Fine subhedral pyrite and accessory anhedral chalcopyrite are distributed through the matrix.

ALTERATION/METAMORPHISM:

Both the quartz – plagioclase (andesine) – biotite – garnet composition and the granoblastic texture confirms a high grade upper amphibolite metamorphic regime for this quartzofeldspathic gneiss. The host has been more strongly altered or retrogressed as a selvedge to a cross-cutting carbonate vein to sericitised plagioclase, while biotite and possibly garnet have been altered to Mg/Fe chlorite.

COMMENTS:

The prograde composition of the host that contains accessory garnet and apatite would appear to indicate a psammopelitic precursor that has been regionally metamorphosed to upper amphibolite facies. The retrograde sericite – Mg/Fe chlorite assemblage and the local development of granophyric textures in albite is consistent with the previously described samples, supporting a propylitic overprint associated with the introduction of sulphides including arsenian pyrite and trace chalcopyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 12

TYPE: Core - TNA 001 321 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Amphibolite. Thin veins react moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor disseminated sulphides including minor chalcopyrite and pyrite plus a series of thin carbonate ± Mg/Fe chlorite veins occur in a moderately retrograde altered (sericite – Mg/Fe chlorite – tr epidote) prograde amphibolite assemblage stable under amphibolite facies.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	4%	**Opaques (2%):**
Plagioclase – andesine (An_{45})	5%	Hematite - dominant
- albite	20%	Chalcopyrite - minor
Amphibole – hornblende	62%	Pyrite - minor
Sericite	2%	Magnetite - tr
Mg/Fe chlorite	2%	
Secondary biotite	1%	
Carbonate - calcite	2%	
Epidote	tr	
Opaques	2%	

TEXTURE:

The amphibolitic composition and granoblastic texture are similar to Sample 9 (TNA 001 273.7 m). The amphibole component is a khaki – light brown pleochroic metamorphic hornblende and typically has a xenoblastic habit and is associated with interstitial anhedral plagioclase. The plagioclase component has been pervasively incipiently altered to fibrous sericite. Anhedral quartz occurs as a minor interstitial phase in the matrix and as inclusions in amphibole. The matrix has preserved a weak gneissic texture. Fine, anhedral opaques are distributed through the matrix.

A series of irregular, thin carbonate ± fibrous Mg/Fe chlorite veins cut the matrix and are locally associated with an alteration selvedge comprising secondary biotite and scaly Mg/Fe chlorite as well as trace epidote alteration of the amphibole component.

In reflected light, fine anhedral to subhedral hematite or martite, after original magnetite, is distributed through the matrix. Fine grained sulphides represent a minor phase and include anhedral to subhedral pyrite and anhedral chalcopyrite. Both pyrite and hematite have replaced trace magnetite.

ALTERATION/METAMORPHISM:

The original hornblende – plagioclase (andesine) composition and the preservation of a granoblastic texture confirms a high grade metamorphic – amphibolitic assemblage. The host has been progressively albitised and incipiently altered to sericite, Mg/Fe chlorite and epidote as a retrograde phase. The alteration that would appear to have accompanied minor carbonate – Mg/Fe chlorite veining and the introduction of minor sulphides.

COMMENTS:

The medium grained granoblastic fabric and amphibole – plagioclase – minor quartz composition confirms an amphibolitic classification. The intensity of the alteration overprint can be regarded as relatively low although there is a clear relationship with veining, alteration and minor disseminated sulphides.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 13

TYPE: Core - TNA 001 327.5 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted, porphyritic granite or syenite. A ferromagnesian phase, possibly biotite or chlorite, occurs interstitially. The sample reacts weakly with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor pyrite is associated with a retrograde alteration assemblage (sericite clay – Fe/Mg chlorite – epidote) within a porphyritic quartz syenite intrusive host that provides evidence of initial potash metasomatism.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	6%	**Opaques (tr):**
Potash feldspar – microcline	80%	Hematite
Plagioclase – albite	5%	Pyrite
Biotite	3%	
Sericite	1%	
Fe/Mg chlorite	3%	
Epidote	1%	
Carbonate - calcite	tr	
Xenotime	1% 0.5 mm	
Apatite	tr	
Clay	tr	
Opaques	tr	

TEXTURE:

An allotriomorphic granular texture has been preserved in a plutonic host dominated by coarse potash feldspar – microcline phenocrysts (~ 6 mm). The anhedral microcline phenocrysts occur in a fine grained matrix comprising an anhedral mosaic of potash feldspar and subordinate plagioclase associated with platy biotite aggregates. Anhedral quartz occurs as an interstitial phase and exhibits ubiquitous undulose extinction and localised recrystallisation. The feldspathic component has been incipiently altered to fibrous sericite and has been clay – dusted. Biotite has been progressively replaced by fibrous to platy Fe/Mg chlorite and fine, granular epidote. Portions of the matrix have been cut by a network of brittle fractures that are associated with local recrystallisation or annealing of the feldspathic matrix. Fine anhedral carbonate occurs as an alteration phase in the matrix. Subhedral to euhedral xenotime occurs as an accessory.

In reflected light, fine euhedral pyrite (pyritahedra) occurs as a minor phase and is closely associated with the retrograde alteration assemblage. Fine, granular hematite also forms part of the alteration assemblage.

ALTERATION/METAMORPHISM:

Possible potash autometasomatism of the plutonic host has effectively replaced the original

feldspathic component with microcline. Ongoing retrograde (hydrothermal) alteration has incipiently clay – sericite altered potash feldspar and progressively replaced biotite with Fe/Mg chlorite associated with anhedral epidote. Minor carbonate represents part of the retrograde propylitic alteration assemblage.

COMMENTS:

The porphyritic plutonic assemblage is dominated by potash feldspar associated with minor (secondary?) plagioclase plus quartz supporting a porphyritic quartz syenite classification. The plutonic host provides evidence of initial potash metasomatism, possibly occurring at the top of a major felsic intrusive, that has been followed by pervasive retrograde alteration plus minor sulphides - pyrite.

CLASSIFICATION: *Carbonate (calcite – ankerite(?)) – Fe chlorite – talc assemblage containing relic tremolite and representing a steatitised ultramafic precursor.*

DESCRIPTION:

MINERALS PRESENT:

Amphibole – tremolite	3%
Carbonate - calcite/ankerite (?)	90%
Talc	2%
Fe chlorite	3%
Phlogopite	tr
Opaques – Mn oxide?	2%

TEXTURE:

Relic textures have been obliterated in a pervasively altered ultramafic host dominated by radiating and plumose - textured carbonate – calcite aggregates associated with fibrous interstitial Fe chlorite and minor talc. Fibrous pale - brown coloured phlogopite also occurs interstitially to carbonate. Fine anhedral to bladed tremolite occurs as a remnant phase in the matrix. The assemblage lacks a penetrative schistosity. A dark opaque phase – possibly Mn oxide occurs as patchy aggregates and stringers in the carbonate matrix and would appear to represent a later phase.

ALTERATION/METAMORPHISM:

The presence of remnant tremolite is consistent with low grade greenschist facies metamorphism of a probable ultramafic precursor. Pervasive carbonate alteration associated with minor fe chlorite, talc and phlogopite represent a strong metasomatic overprint or steatitisation of the ultramafic host. Mn – oxide has penetrated the matrix in the weathered profile.

COMMENTS:

Although relic textures have been obliterated the presence of termolite in a steatitite carbonate – Fe chlorite – talc host confirms an ultramafic precursor. The strong metasomatic overprint is noteworthy.

Plate A The dolerite host contains randomly oriented, plagioclase (pl) laths in a metamorphosed host comprising anhedral actinolite to ferroactinolite (act) locally exhibiting sieve – like or poikiloblastic textures. Platy biotite (bt) represents an integral part of the metamorphic assemblage. Crossed polars. Field of view - 3.6 mm.

Plate B Anhedral garnet (dark – isotropic) is preserved in the leucotonalite intrusive comprising platy biotite (bt) associated with anhedral quartz (q) and plagioclase – oligoclase (ol). Crossed polars. Field of view - 3.6 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 14

TYPE: Core - TNA 002 213.72 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted and epidote altered bedded arenite, possibly occurring at the base of the overlying volcanic suite. Coarser grained arenite units react weakly to moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Interbedded arenite and argillite units with a probable felsic plutonic – granitic provenance. The sediment has been overprinted by a calcite, epidote, actinolite, dusted hematite metasomatic alteration assemblage associated with disseminated pyrite.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	83%	**Opaques (tr):**
Potash feldspar – microcline	4%	Pyrite
Amphibole - actinolite	2%	Hematite
Epidote	6%	
Sericite	tr	
Carbonate - calcite	4%	
Hematite/clay dusting	1%	
Opaques	tr	

TEXTURE:

Coarser grained arenite units are dominated by subrounded to sub-angular detrital quartz associated with subordinate detrital potash feldspar – microcline as well as minor recrystallised quartz. The sedimentary unit is poorly to moderately sorted and has been cemented by calcite. Fibrous to bladed actinolite and fine granular epidote represent additional alteration phases in the matrix. The detrital quartz component has undergone pre-depositional stress with the presence of ubiquitous undulose extinction and recrystallised quartz clasts.

The fine grained argillite units comprise cryptocrystalline quartz containing coarser grained detrital quartz. Fine, granular epidote occurs interstitially with the presence of oriented, fine tabular quartz providing evidence of recrystallisation of the matrix. Fine grained portions of the matrix have also been dusted by clay/hematite. The presence of stylolitic textures as well as pressure solving of the coarser grained units by the hematite – dusted argillite units provides evidence of ongoing deformation. Fine, sheaf-like to stellate clusters of bladed epidote also occurs in the fine grained argillite units that have been penetrated by fibrous tremolite aggregates and would appear to occur as a selvedge

to veins or segregations comprising fine anhedral quartz associated with carbonate and fine scaly sericite.

In reflected light, fine anhedral pyrite is distributed through the matrix and can be closely associated with epidote – actinolite alteration in the argillite units. Coarser, subhedral pyrite has also overprinted the detrital component in the arenite units. Fine anhedral hematite occurs as an

accessory in the argillite units.

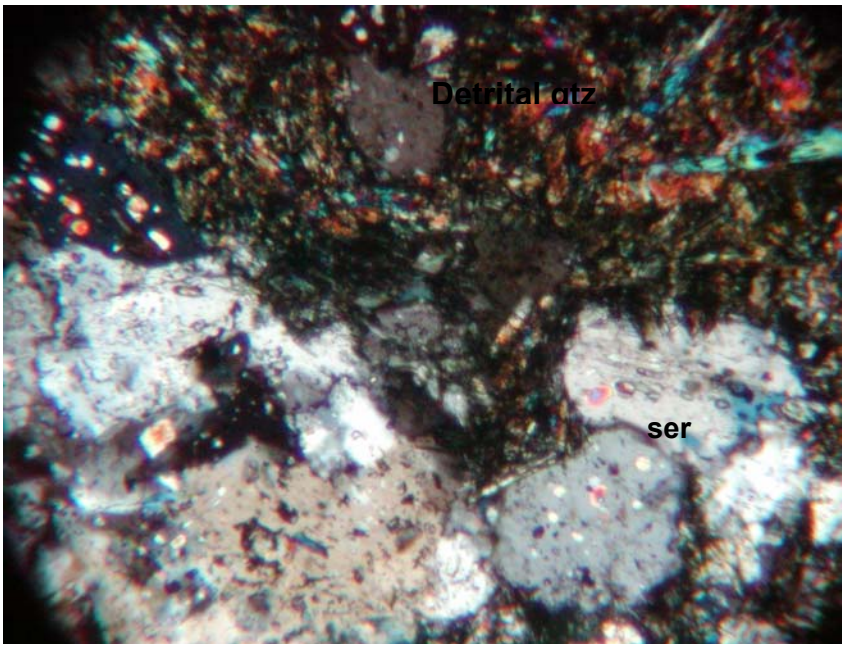
ALTERATION/METAMORPHISM:

The ubiquitous undulose extinction of the detrital quartz component and the presence of recrystallised quartz grains confirms that detrital component has undergone deformation and probable low grade metamorphism prior to incorporation in the sediment. The cementation of the matrix by calcite and the introduction of actinolite and epidote are products of an alteration overprint that has been accompanied by the introduction of quartz – carbonate – sericite veins and disseminated pyrite.

COMMENTS:

The detrital component apparent in the arenite units is dominated by quartz associated with minor potash feldspar – microcline strongly suggesting a felsic plutonic provenance. The interbedded and argillite units have been clearly penetrated by an alteration assemblage including calcite, epidote, actinolite and hematite(clay) dusting plus disseminated pyrite as a product of metasomatism. The sedimentary units lack the strong, upper amphibolite metamorphism of the underlying Paleoproterozoic suite apparent in previously described samples.

Photomicrographs



Quartz (Q) – carbonate (carb) – scaly sericite (ser) vein associated with an epidote – fibrous actinolite alteration selvedge. Crossed polars Field of view – 2 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 15

TYPE: Core - TNA 002 270.45 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hematite – dusted and possibly deformed granite containing disseminated pyrite. Fine fractures react moderately with dilute HCl.

SECTION TYPE: Polished Thin Section

CLASSIFICATION: *Minor disseminated pyrite and hematite are associated with strong potash metasomatism and hematite dusting of a probable granodiorite intrusive host. Minor retrograde alteration is apparent as sericite and carbonate alteration.*

DESCRIPTION:

MINERALS PRESENT:

Quartz	36%	**Opaques (2%):**
Potash feldspar – microcline	22%	Hematite - dominant
Plagioclase – oligoclase/albite	36%	Pyrite - subordinate
Sericite	2%	Magnetite - minor
Fe/Mg chlorite	tr	
Carbonate - calcite	1%	
Zircon	tr	
Garnet	tr	
Hematite/Clay	1%	
Opaques	2%	

TEXTURE:

A medium to coarse grained allotriomorphic granular texture has been preserved in a plutonic host comprising hematite(clay) dusted plagioclase – albite/oligoclase associated with quartz. Potash feldspar – microcline has progressively replaced the plagioclase component and is relatively clear of inclusions. The plagioclase component has been incipiently sericitised and has been locally penetrated by bladed hematite. Carbonate has penetrated along fractures in the matrix and has locally replaced feldspar. The quartz component exhibits ubiquitous undulose extinction and sutured grain boundaries confirming that deformation is closely associated with a series of microfractures cutting the matrix. Fine, euhedral zircon and anhedral garnet, locally altered to Fe/Mg chlorite, occur as accessories in the matrix.

In reflected light, subhedral pyrite is associated with fine anhedral hematite within a microshear that cuts the matrix. Anhedral hematite would appear to have locally replaced residual magnetite. There is evidence that bladed hematite has also penetrated the plagioclase component.

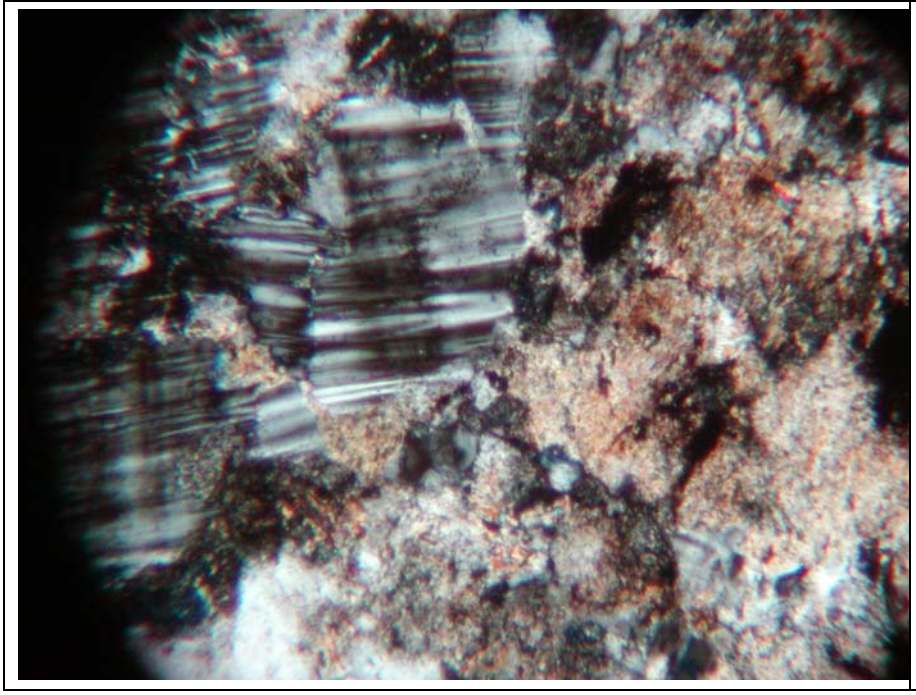
ALTERATION/METAMORPHISM:

The original feldspathic component of the plutonic host was dominated by plagioclase and has been deformed and progressively replaced by potash feldspar as an (auto?)metasomatic overprint associated with the introduction of hematite and hematite – dusting. Minor pyrite has also accompanied the metasomatic overprint. Minor carbonate has been introduced as a probable retrograde phase.

COMMENTS:

The feldspathic component of the original allotriomorphic plutonic host was probably dominated by plagioclase associated with minor potash feldspar plus magnetite consistent with a granodiorite composition. Potash feldspar – microcline has been accompanied by hematite and hematite – dusting as a potash metasomatic overprint and is associated with the introduction of sulphides – pyrite.

Photomicrograph



Secondary potash feldspar – microcline overprinting the feldspathic phase in the granodiorite host. The original feldspathic phase is hematite duste Crossed polars. Field of view – 2 mm.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 16 & 17

TYPE: Core - TNA 002 123.75 m & 139 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Hanging wall volcanic lithologies - Relic amygdales are infilled by chlorite in a hematite – altered fine grained matrix in the mafic to intermediate volcanic host retaining relic plagioclase microlites. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Sections

CLASSIFICATION: *Low grade metamorphosed and possibly propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite volcanics that are locally amygdaloidal.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite
Clinopyroxene – augite
Amphibole – actinolite
Sericite
Mg chlorite
Epidote
Carbonate – calcite
Hematite
Opaques

Opaques (2%):
Magnetite
Hematite

TEXTURE & ALTERATION:

Sample TNA 002 123.75 m is similar to Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite and iron ore – magnetite and hematite.

Sample TNA 002 139.0 m is similar to Sample 3 (121.94 - 122.06 m) with relic amygdales infilled by fibrous to scaly Mg chlorite in a matrix preserving fine plagioclase microlites associated with interstitial dark glass.

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been largely preserved in TNA 002 123.75 m. The plagioclase component has been pervasively hematite – dusted. Relic amygdales have been infilled by Mg chlorite, actinolite and calcite.

COMMENTS:

The composition of dominant plagioclase associated with interstitial, ophitic clinopyroxene supports an andesitic to basaltic andesite classification. The distinctive hematite – dusted chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales.

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MINERAGRAPHIC AND PETROGRAPHIC DESCRIPTIONS

SAMPLE NO: 17, 18 & 19

TYPE: Core - TNA 002 252 m, 260 m & 283.75 m.

LOCATION: Toondina Project

FIELD IDENTIFICATION: Footwall volcanic to high level intrusive lithologies - Relic amygdales are infilled by chlorite in a hematite – altered fine grained matrix in the mafic to intermediate volcanic samples. The sample reacts very weakly with dilute HCl.

SECTION TYPE: Polished Thin Sections

CLASSIFICATION: *Low grade metamorphosed and possibly propylitically altered (epidote – Mg chlorite – carbonate – actinolite) andesite to basaltic andesite thick flows and amygdaloidal volcanics.*

DESCRIPTION:

MINERALS PRESENT:

Plagioclase – microlites - albite
Clinopyroxene – augite
Amphibole – actinolite
Sericite
Mg to Fe/Mg chlorite
Epidote
Carbonate – calcite
Hematite
Opaques

Opaques (2%):
Magnetite
Hematite

TEXTURE & ALTERATION:

Sample TNA 002 252.0 m is slightly coarser grained than Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite, locally pseudomorphed by actinolite. Iron ore – magnetite and hematite, occur interstitially.

Sample TNA 002 260.0 m is similar to Sample 6 (TNA 001 207.0 m) with interlocking plagioclase laths associated with interstitial clinopyroxene – augite, locally replaced by epidote.

Sample TNA 002 283.75 m is similar to Sample 3 (121.94 - 122.06 m) with relic amygdales infilled by fibrous Mg chlorite in a matrix preserving fine, hematite - dusted plagioclase microlites associated with interstitial, dark glass. Hyaloclastite textures have been locally preserved with the darker glassy clasts locally present.

Like the previous samples, the preservation of primary volcanic textures confirms that the metamorphic grade is low. Original clinopyroxene has been typically replaced by

either actinolite and/or epidote. The plagioclase component has been pervasively hematite – dusted. Relic amygdales have been infilled by Mg to Fe/Mg chlorite, actinolite, calcite ± secondary plagioclase.

COMMENTS:

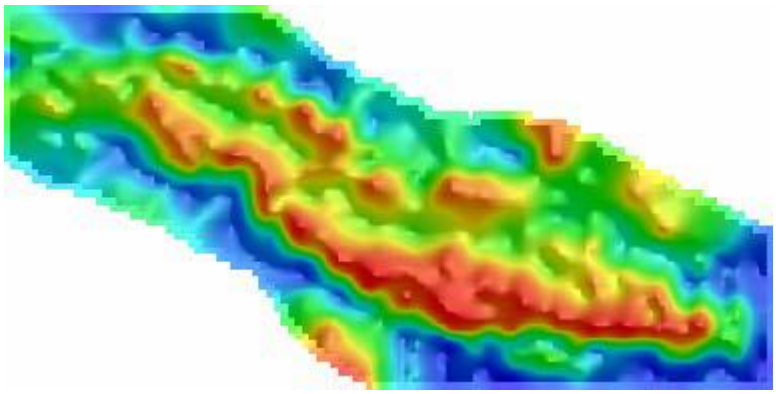
The composition of dominant plagioclase associated with interstitial, ophitic clinopyroxene (where preserved) supports an andesitic to basaltic andesite classification. The distinctive

hematite – dusted plagioclase, Mg to Fe/Mg chlorite – actinolite – secondary albite – epidote – minor carbonate assemblage is consistent with a propylitic alteration overprint associated with infilling of relic amygdales.

TOONDINA DAM GRAVITY AND MAG SURVEYS 2002

June 2002

Report Number 02012
DR Daish



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1 INTRODUCTION

Precision GPS-Gravity and magnetic surveys were carried out in May and June 2002 for ReLODE. A total of 432 gravity stations and 21km of ground magnetics were surveyed over one area near Toondina Dam south of Oodnadatta in South Australia.

Gravity data was acquired using a Scintrex CG3 digital gravity meter. Position and level data was obtained using Trimble 4000 GPS units, to produce precise kinematic GPS locations. Ground magnetics was acquired using Gem Systems GSM-19 magnetometers. All data was acquired using Daishsat foot-borne methods.

Gravity data was reduced using standard reductions on the ISOGAL84 gravity network. GPS data were reduced to MGA coordinates with levels expressed as metres above the Australian Height Datum survey overview

A single area was surveyed near Toondina Dam near Oodnadatta (see Figure 1):

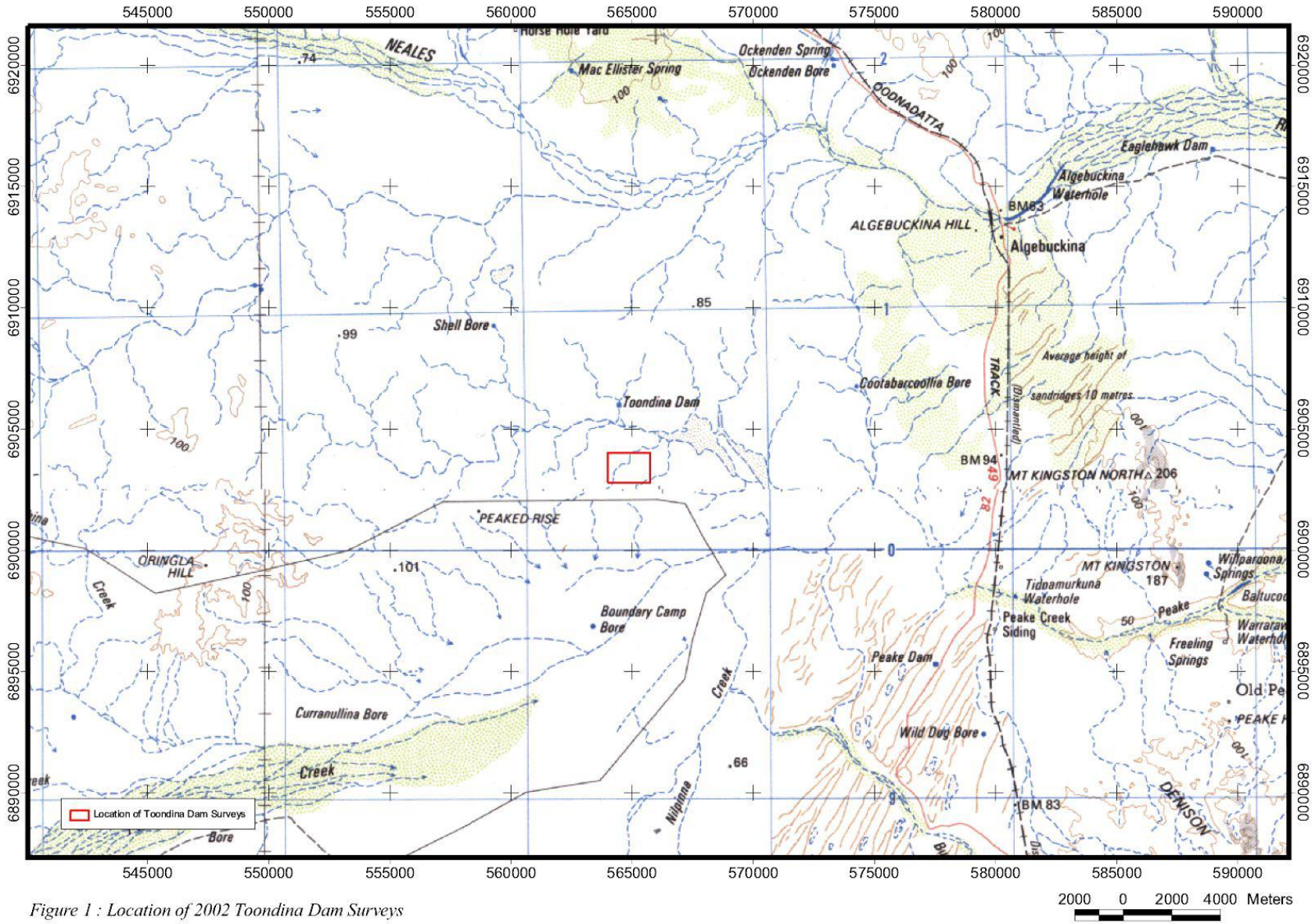


Figure 1 : Location of 2002 Toondina Dam Surveys

2 PERSONNEL AND EQUIPMENT

2.1 Personnel

The supervisor in charge of the project was Mr. Ben Allsopp. Ben was responsible for daily management of the job and for nightly data processing to ensure quality and integrity. Gravity, GPS and Mag measurements were carried out by Ben Allsopp and Kane Ryan. Final data reduction and inspection were performed by the company geophysicist, Leon Mathews.

2.2 Survey equipment

- One Scintrex CG-3 digital gravity meter
- Three Trimble 4000 dual frequency GPS receivers
- Two GSM-19 Magnetometers
- Trimble Handheld GPS receivers for navigation
- Two Toshiba notebooks for data processing and backup
- Various chargers and batteries

2.3 Vehicles

Due to the type of terrain to be encountered, 4wd Patrol vehicles were used for the duration of the job. To maintain the high Daishsat safety record, vehicles were fitted with a range of safety equipment including:

- One 20l jerry can of water
- Dual fuel tanks
- Two spare tyres
- Sat phone
- Tyre pliers to effect tyre repairs in the field
- Tools and spares to enable field repairs as necessary
- Survival kit with EPIRB emergency locator beacon

2.4 Camp

As there was accommodation available in all areas, camping was not necessary.

2.5 Communications

All personnel were equipped with hand-held UHF radios, allowing skeds on 2 hourly intervals.

3 GPS SURVEYING AND PROCESSING

3.1 Set out of the grid

This was done concurrently with the gravity data acquisition using Trimble 4000 GPS. Where possible, the readings were taken as close to the ideal coordinates as possible. Some stations were offset or omitted due to the nature of the terrain, e.g. hilly or thickly vegetated areas. As the Trimble System was not operating in precise RTK mode, set out accuracy was usually no better than 2 m. At each station, a scuffmark and washer tied to pink flagging, marked with the station number, was used for station identification. At each station, the station number, position and RL were recorded digitally by the GPS crew.

3.2 Survey datum and control

The gravity surveying, and hence any gravity reductions, used the Australian Height Datum (AHD) as the reference datum. GPS control was established using known survey control previously established in the area.

3.3 Processing of the position and level data

The kinematic GPS data were recorded on internal memory, which were downloaded onto computers daily. All GPS data is post processed.

3.4 GPS Performance

Performance from the Trimble kinematic system was excellent, considering the terrain encountered in most areas.

4 GRAVITY ACQUISITION AND PROCESSING

4.1 Gravity data acquisition

Gravity observations were made on the regular grid previously set out by GPS (see Photo 2). Two observations were made for each station. Each observation consisted of a 20-second or greater stacking time. Two observations were made at each station so that any seismic or instrumental noise could be immediately detected. The accepted tolerance between readings was limited to 0.02 milligals to ensure accuracy. Vertical and horizontal levels were restricted to 5 arc seconds at all times. At each station, the station number, time and two gravity readings (in dial units) were recorded in DAISHSAT carbon-copy gravity field books. The Scintrex CG3 also automatically records the station, time and readings digitally to allow for downloading to computer.



Photo 2 GPS-Gravity Acquisition Crew

4.2 Gravity base stations

A single base station was (0011) was used for calculation of absolute gravity and drift determination. When in the field, a base station reading was taken in the morning before observing, at midday before battery change, at midday after battery change and at evening after the last observation. When taking a base station reading, the observed gravity values were stacked over 120 seconds to ensure accuracy. Two observations of 120 seconds were taken at each base reading. Observations were repeated until the readings repeated to 0.005 of a dial reading or less.

4.3 Gravity data processing

Raw gravity data was processed on a daily basis to check for quality and integrity. This interim process produced a set of Bouguer Gravity values, which were contoured and imaged to provide a check for any anomalous readings that would need repeating.

At the conclusion of the job, the data were processed and formatted to HI MS-Access format using the following gravity corrections within the Geosoft Gravred package:

1. **Instrument scale factor:** This correction was used to correct a gravity reading (in dial units) to a relative milliGal value based on the meter calibration.

2. Tidal correction: This correction was used to correct for background variations due to changes in the relative position of the moon and sun. The Scintrex calculated ETC was removed and a new ETC calculated using Geosoft Formulae and the surveyed GPS latitude.

3. Instrument Drift: Since gravity meters are mechanical, they are prone to drift (extension of the spring with heat, obeying Hooke's law). If two base readings are taken one can assume that the drift between the two readings is linear and can therefore be calculated. The drift and tidal corrected value is referred to as the observed gravity.

4. Theoretical Gravity: The theoretical value of gravity was calculated using the 1967 variant of the International Gravity Formula and used to latitude correct the observed gravity

5. Free-Air Correction: Since gravity varies inversely with the square of distance, it is necessary to correct for changes in elevation between stations to reduce field readings to a datum surface (in this case, AHD).

6. Bouguer Correction: This correction accounts for the attraction of material between the station and datum plane that is ignored in the free-air calculation. An adopted density of 2.67 gm/cc was used in the correction.

7. Bouguer Gravity: This is obtained when all the preceding reductions or corrections have been applied to the observed gravity reading.

4.4 Gravity meter calibration and scale factors

Gravity meters used have been previously calibrated over a number of calibration ranges in WA and SA.

4.5 Gravity meter drift calibration

While the survey was in progress, the meter was cycled overnight as a check on instrument drift. Changes were made to the drift constant where appropriate.

5 MAGNETICS ACQUISITION AND PROCESSING

5.1 Magnetics data acquisition

Ground magnetics was conducted on 10m intervals using GEM Systems GSM-19 Overhauser magnetometers. All lines were surveyed by foot and the operator was stationary for the three seconds that it takes to take the measurement.

5.2 Magnetics data processing

Magnetic data was processed to Total Magnetic Intensity (TMI) using diurnal corrections obtained from hourly revisits to mag base 1000. Dirunal changes were assumed to be linear between reoccupations, and so a simple linear correction was made to the field data. After removing the diurnal, the final corrected mag was obtained. Another product, MAG NL, was derived to help smooth the high frequency noise from the data. MAG NL, was obtained by filtering the final corrected data with a non-linear filter, with a five point

operator. The filter did not remove any peaks/troughs that may be of interpretational interest.

6 RESULTS

Raw and processed GPS and gravity data are contained on CDROM as Appendix B. Hardcopy plots of station location/images are contained in Appendix A.

7.1 Data Repeatability

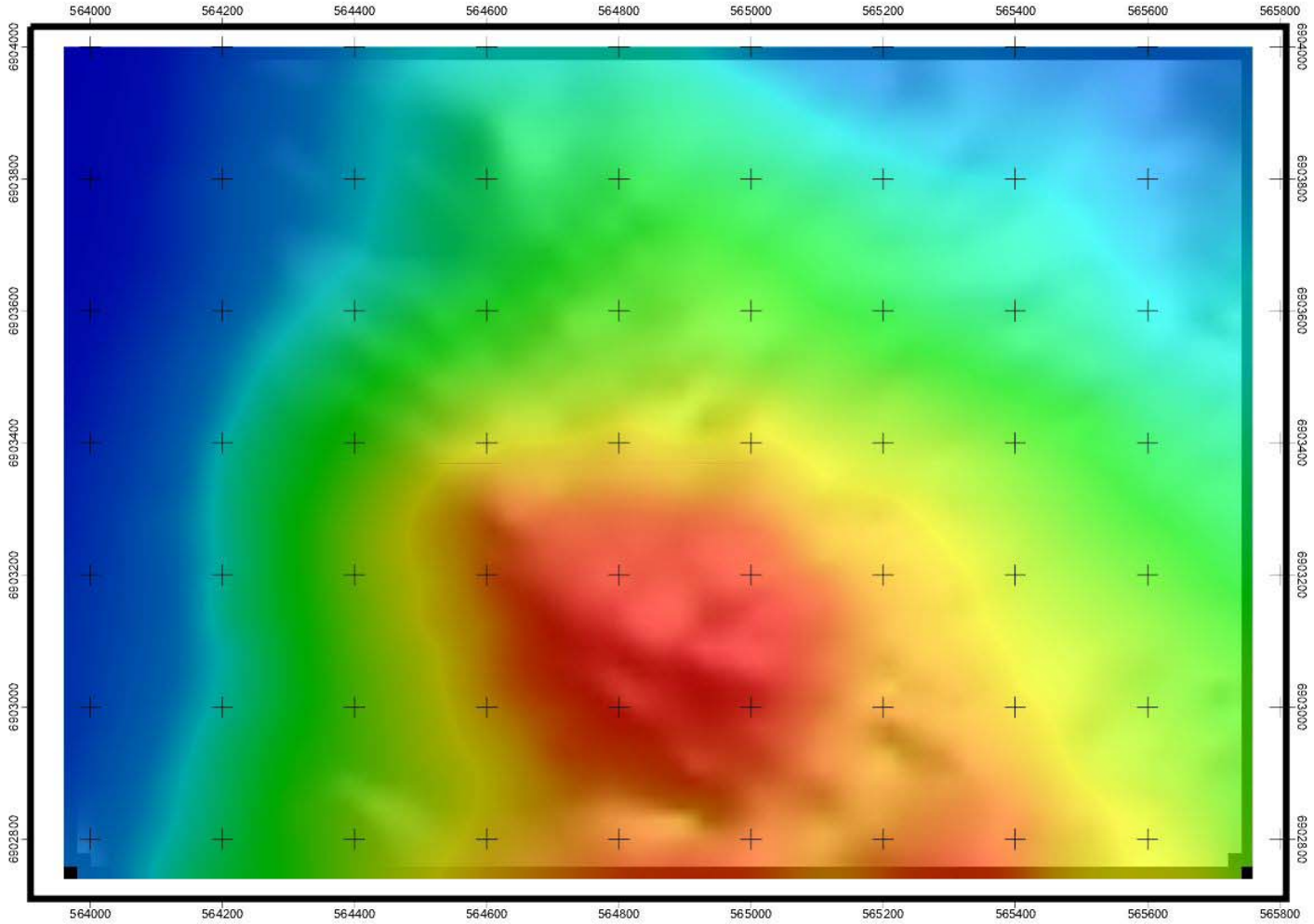
Analysis of the repeat data shows that measurement repeatability is excellent for both GPS and Gravity observations. Based on the repeat data, one can assume the following typical accuracies for the observables:

X position observation:	< 0.05 m
Y position observation:	< 0.05 m
Z position observation:	< 0.04 m
Gravity observation:	< 0.03 m Gals

APPENDIX A

Plots of station location / Images

IMAGE OF BOUGUER GRAVITY 2.67

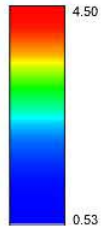


SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
Contour Interval	NA
Pseudo Layer	Bouguer Gravity HE
Intensity Layet	Bouguer Gravity HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM

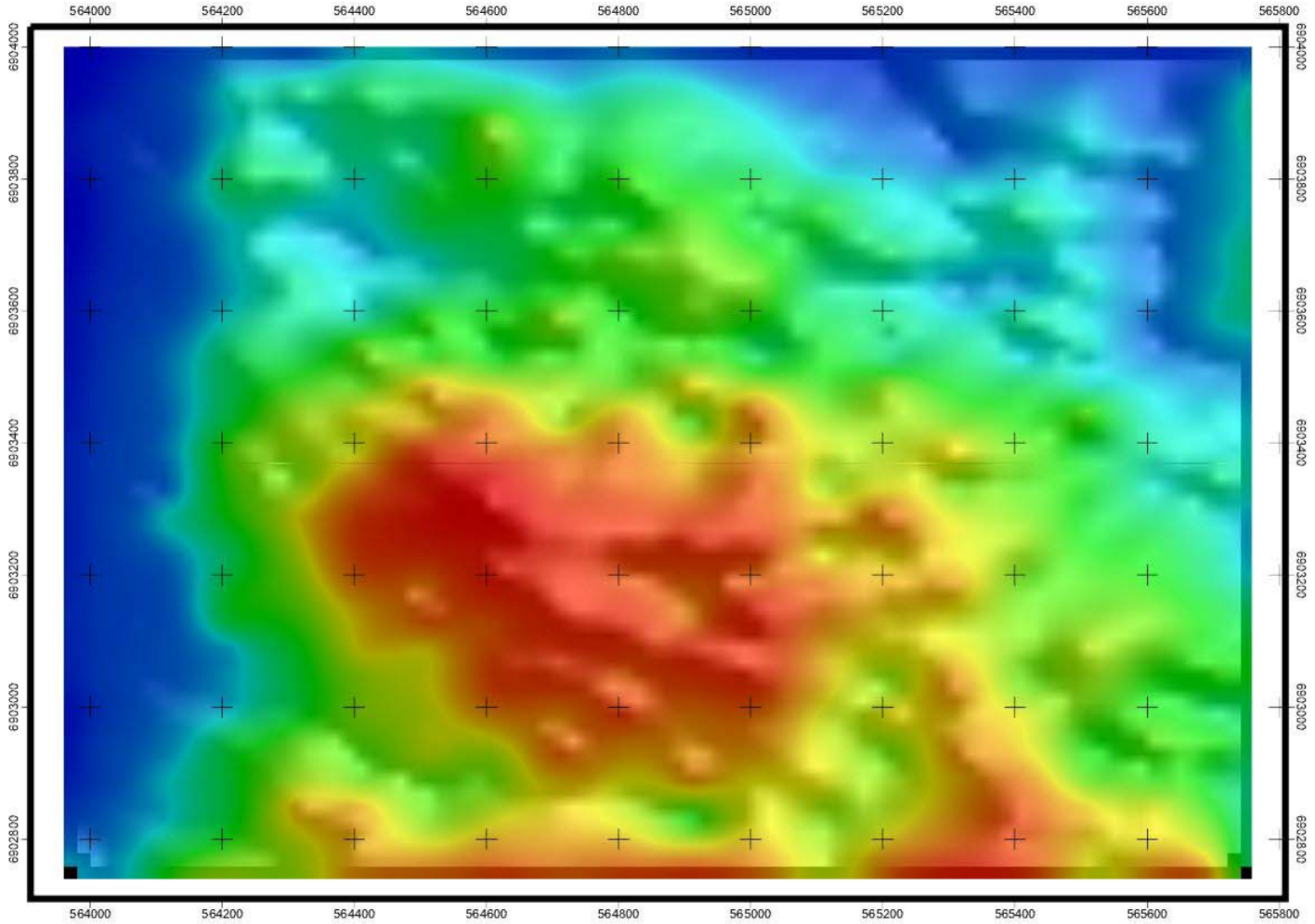


BG267 mGals

100 0 100 Meters

MGA94 Zone53

IMAGE OF 1VD BOUGUER GRAVITY 2.67

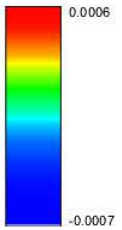


SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
Contour Interval	NA
Pseudo Layer	B Gravity 1VD HE
Intensity Layet	B Gravity 1VD HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM

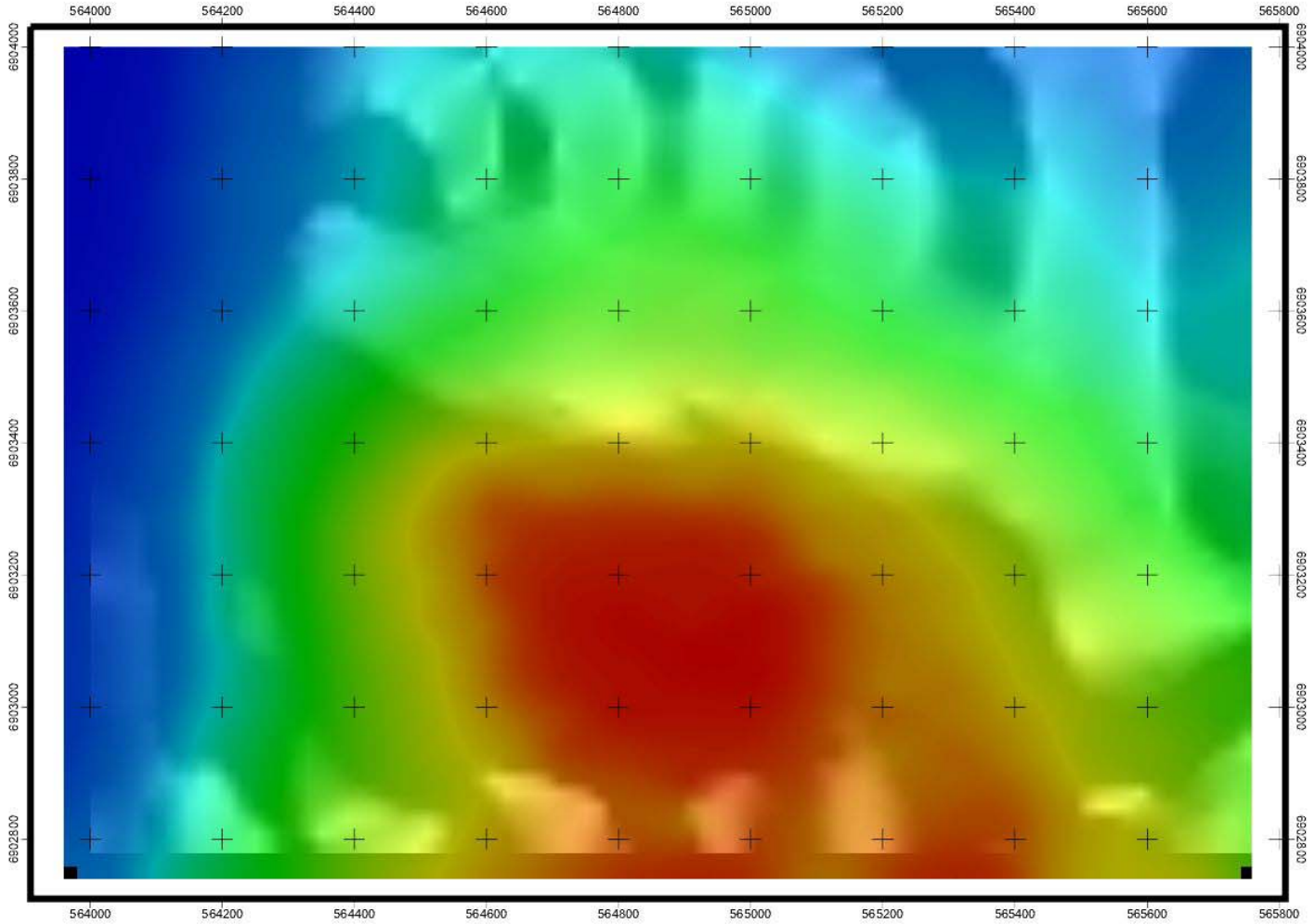


1VD BG267

100 0 100 Meters

MGA94 Zone53

IMAGE OF BOUGUER GRAVITY 2.67 OVERLYING MAGNETICS

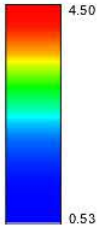


SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
Contour Interval	NA
Pseudo Layer	Bouguer Gravity HE
Intensity Layet	Magnetics HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM

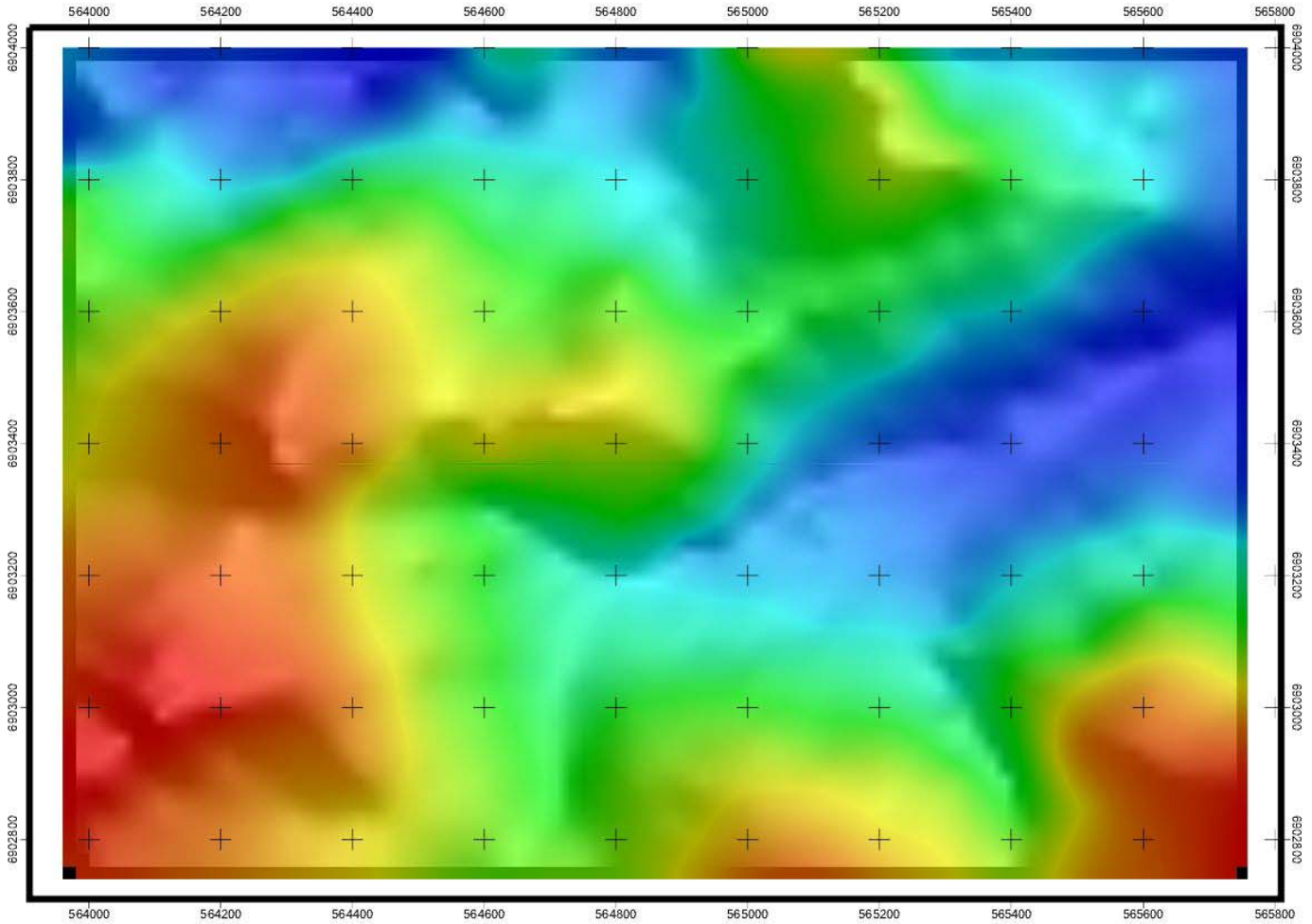


BG267 mGals



MGA94 Zone53

IMAGE OF GPS DERIVED ELEVATION

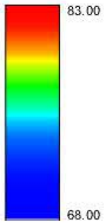


SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
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Pseudo Layer	Elevation HE
Intensity Layet	Elevation HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM

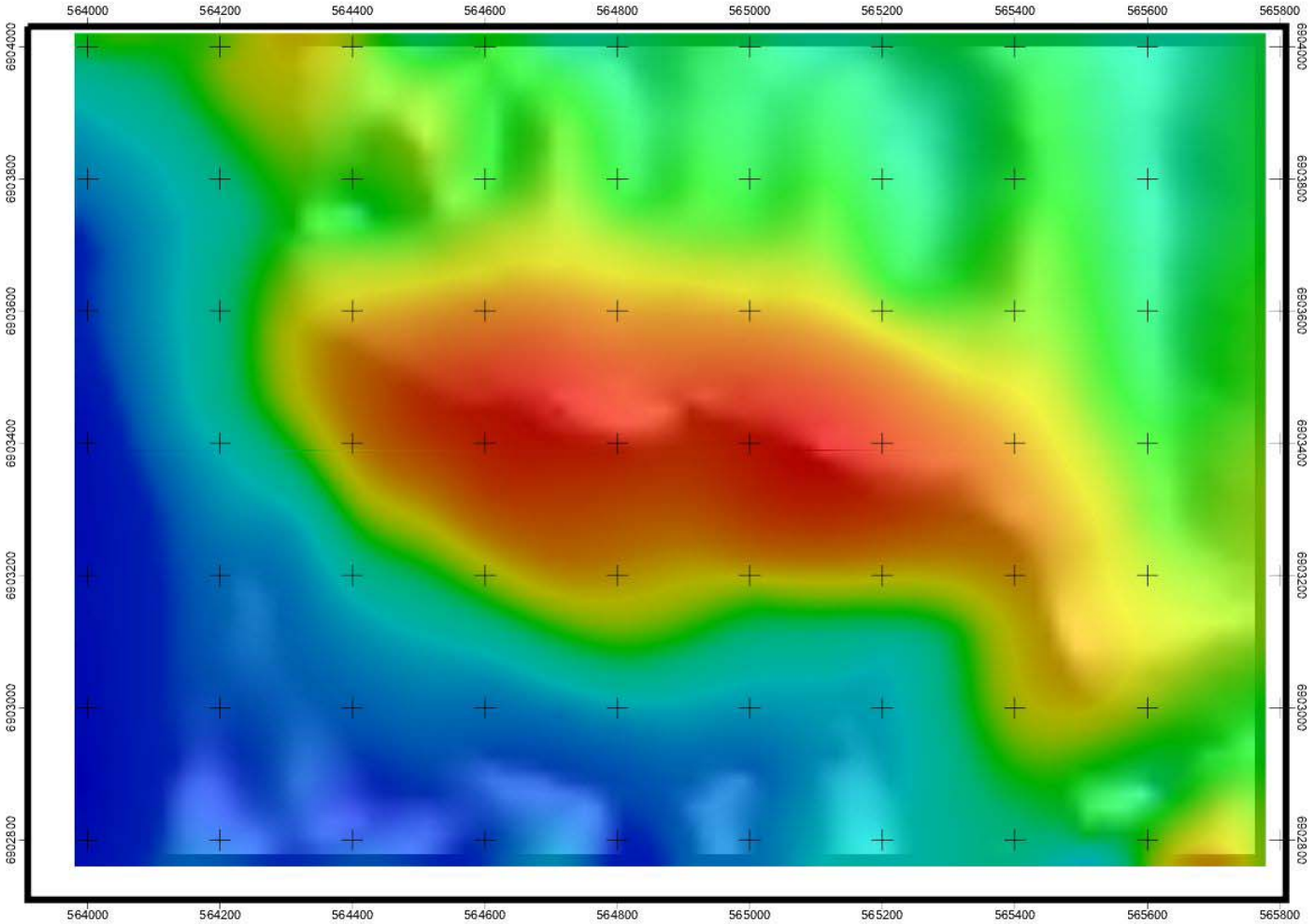


m AHD

100 0 100 Meters

MGA94 Zone53

IMAGE OF MAGNETICS

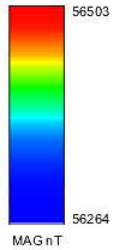


SPECIFICATIONS

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Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
Contour Interval	NA
Pseudo Layer	Magnetics HE
Intensity Layet	Magnetics HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM



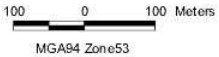
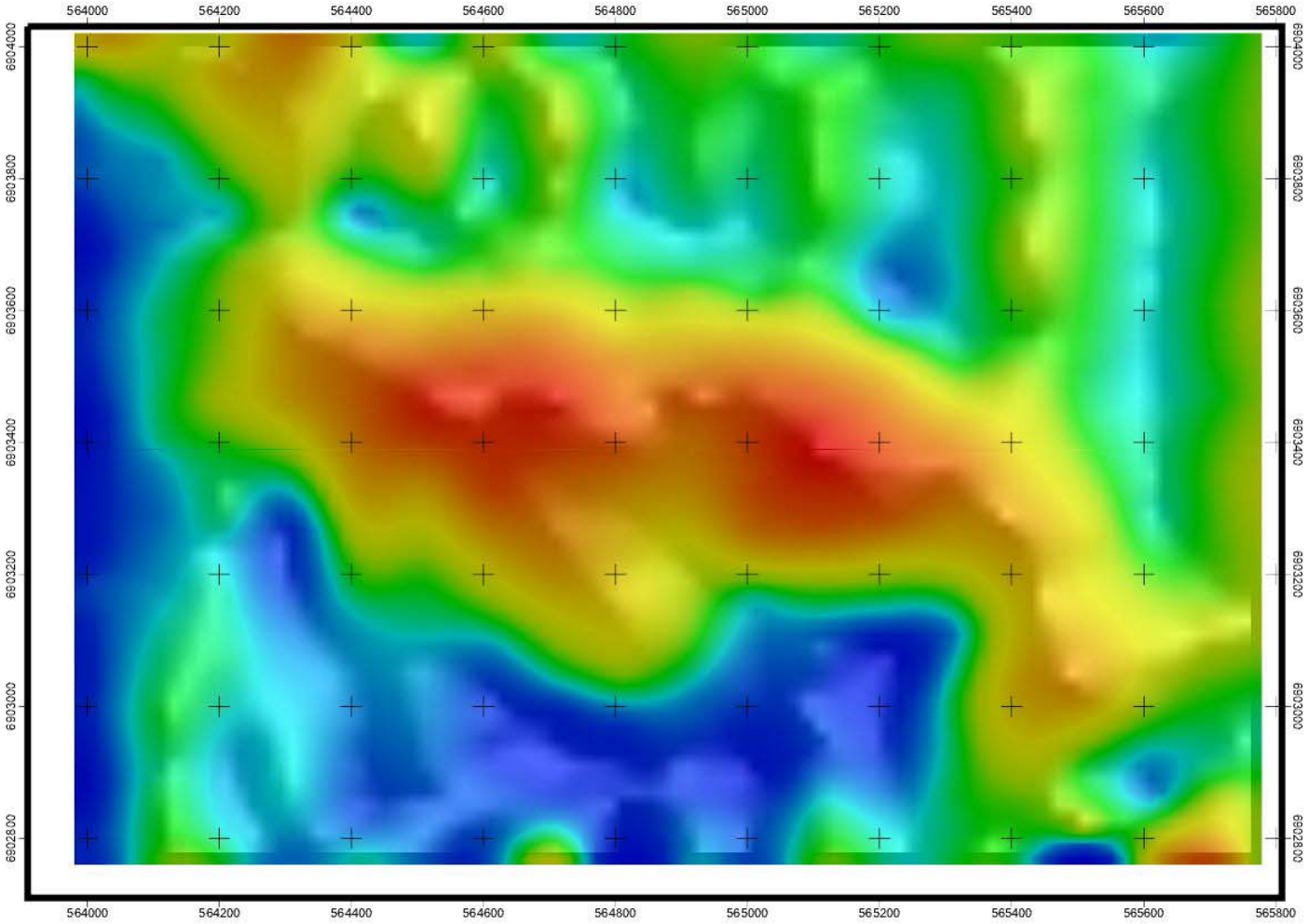


IMAGE OF 1VD MAGNETICS



SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

IMAGE PROCESSING

Grid Cell Size	20m
Scan Distance	150m
Gridding Algorithm	MC
Contour Interval	NA
Pseudo Layer	Magnetics 1VD HE
Intensity Layet	Magnetics 1VD HC
Sun Shading	NE
Other Filters	-
Lookup Table	Rainbow2
Imaged By	LRM

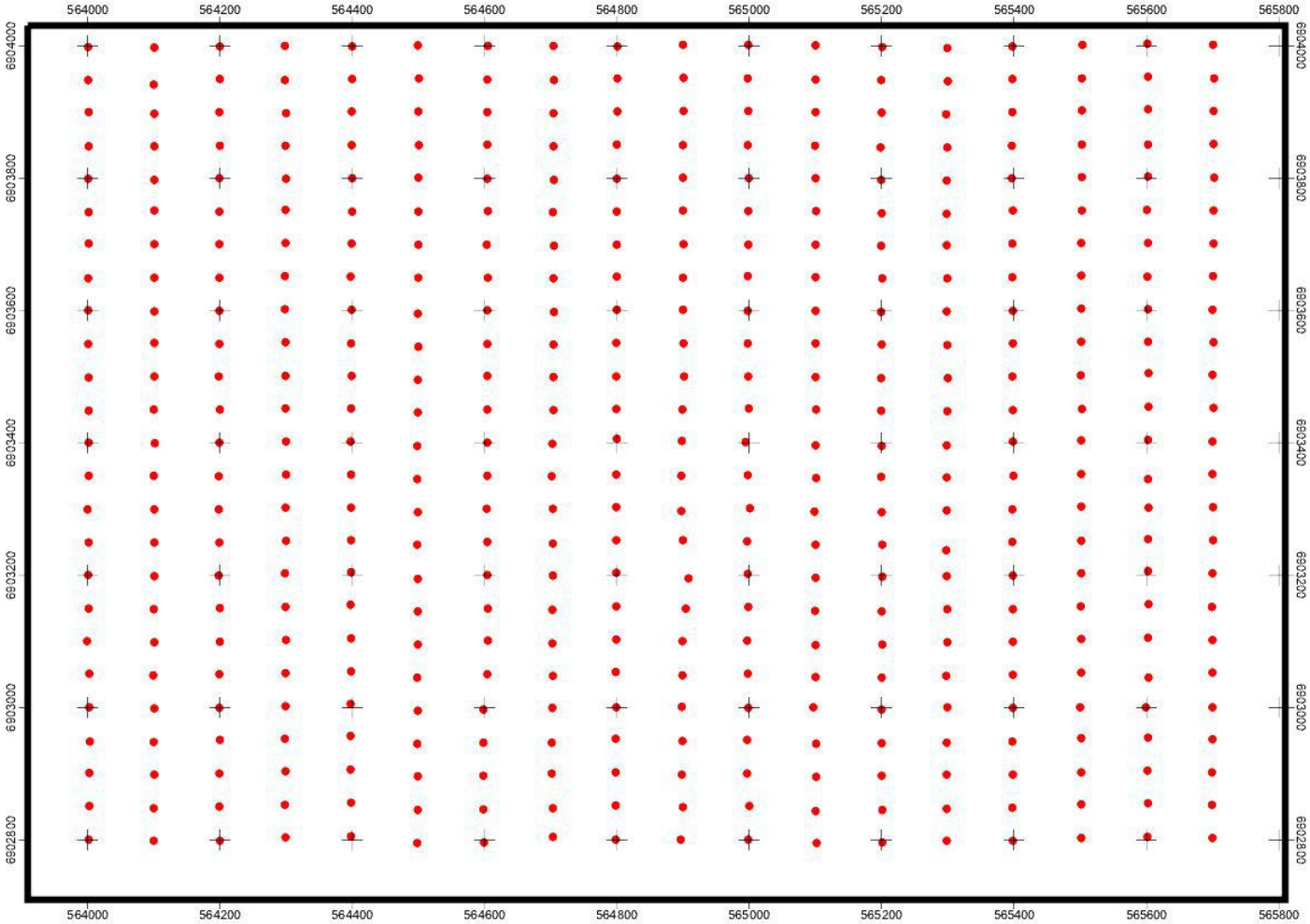


MAG nT

100 0 100 Meters

MGA94 Zone53

SURVEY CONFIGURATION



SPECIFICATIONS

Job Number	02012
Survey Location	TOONDINA DAM
Client	RELODE
Contractor	DAISHSAT
Survey Date	MAY 2002
GPS Instrument	TRIMBLE
Gravity Instrument	SCINTREX CG3
Helictopter Used	NA
Line Spacing	100m
Station Spacing	50m
Supervised By	BA

Appendix 5

Ockenden Gravity and Mag Surveys 2002
Daishsat Pty Ltd.

OCKENDEN GRAVITY AND MAG SURVEYS 2002

July 2002

Report Number 02018
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1. INTRODUCTION

Precision GPS-Gravity and magnetic surveys were carried out in July 2002 for ReLODE. A total of 695 gravity stations and 35km of ground magnetics were surveyed over one area near Ockenden, adjacent to the Neales river, south of Oodnadatta in South Australia.

Gravity data was acquired using a Scintrex CG3M digital gravity meter. Position and level data was obtained using a Leica System 500 GPS RTK unit, to produce precise GPS locations. Ground magnetics data was acquired using Gem Systems GSM-19 magnetometers. GPS and gravity data was obtained through the use of an ATV, while magnetic data was acquired using Daishsat foot-borne methods.

Gravity data was reduced using standard reductions on the ISOGAL84 gravity network. GPS data were reduced to MGA coordinates with levels expressed as metres above the Australian Height Datum.

2. SURVEY OVERVIEW

A single area was surveyed near Ockenden south of Oodnadatta (see Figure 1):

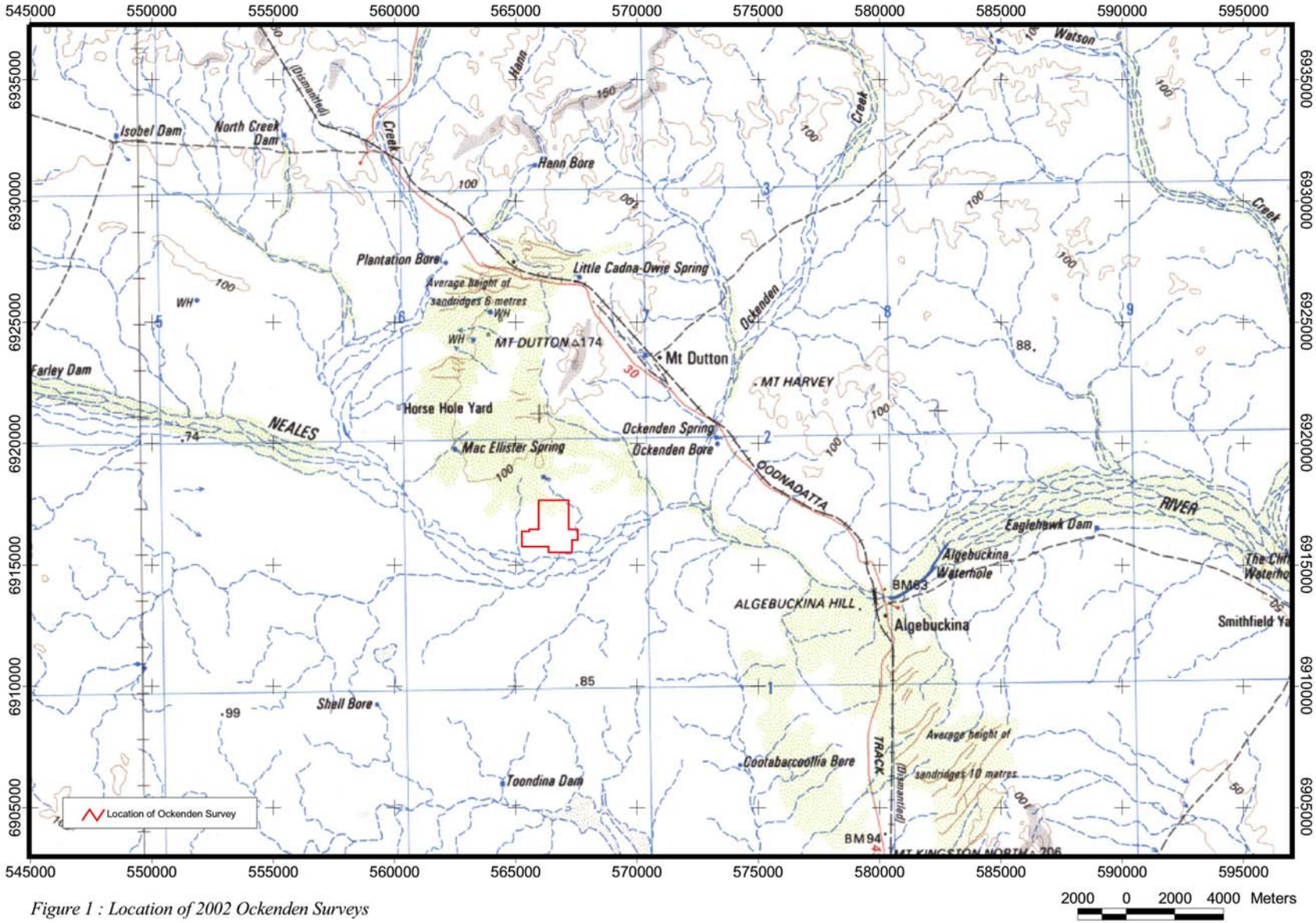


Figure 1 : Location of 2002 Ockenden Surveys

3. PERSONNEL AND EQUIPMENT

3.1 Personnel

The supervisor in charge of the project was Mr. Kane Ryan. Kane was responsible for daily management of the job and for daily collection of ground magnetic data and associated nightly data processing to ensure quality and integrity. Gravity and GPS measurements were carried out by Mr. Mark Jecks. Mark was also responsible for the nightly processing of GPS and gravity data. Final data reduction and inspection were performed by the company geophysicist, Leon Mathews.

3.2 Survey equipment

- One Scintrex CG-3M digital gravity meter
- Two Leica System 500 GPS receivers
- Two GSM-19 Magnetometers
- Garmin Handheld GPS receiver for navigation
- Two Toshiba notebooks for data processing and backup
- Various chargers and batteries

3.3 Vehicles

Due to the type of terrain to be encountered, 4wd Landcruiser vehicles were used for the duration of the job. To maintain the high Daishsat safety record, vehicles were fitted with a range of safety equipment including:

- One 20L jerry can of water
- Dual fuel tanks
- Three spare tyres
- Sat phone
- Tyre pliers to effect tyre repairs in the field
- Tools and spares to enable field repairs as necessary
- Survival kit with EPIRB emergency locator beacon

3.4 Camp

As there was accommodation available in all areas, camping was not necessary.

3.5 Communications

All personnel were equipped with hand-held 2-way radios, allowing skeds on 2 hourly intervals.

4. GPS SURVEYING AND PROCESSING

4.1 Set out of the grid

This was done simultaneously with the gravity data acquisition using Leica System 500 GPS. Where possible, the readings were taken as close to the ideal coordinates as possible. Some stations were offset due to the nature of the terrain, e.g. hilly or thickly vegetated areas. At each station, a scuffmark and pin flag, marked with the station number, was used for station identification. At each station, the station number, position and RL were recorded digitally by the GPS crew. The set out of the grid was designed to cover two magnetic features, a high intensity linear feature running on a NNW orientation, and a lower intensity anomaly lying to the west of the linear feature. The western extent of the grid was altered so as to comprehensively cover the lower intensity anomaly. This was done with the authorization of Mr. Mark Derriman. The grid is summarised by the table below

Northing	Western extent	Eastern extent	Number of stations
6917650N	565950E	567150E	25
6917550N	565950E	567150E	25
6917450N	565950E	567150E	25
6917350N	565950E	567150E	25
6917250N	565950E	567150E	25
6917150N	565950E	567150E	25
6917050N	565950E	567150E	25
6916950N	565950E	567150E	25
6916850N	565950E	567150E	25
6916750N	565950E	567150E	25
6916650N	565950E	567150E	25
6916550N	565950E	567150E	25
6916450N	565550E	567550E	41
6916350N	565250E	567550E	46
6916250N	565250E	567550E	46
6916150N	565250E	567550E	46
6916050N	565250E	567550E	46
6915950N	565250E	567300E	40
6915850N	565250E	567300E	40
6915750N	565250E	567300E	40
6915650N	566350E	567300E	20
6915550N	566350E	567300E	20

4.2 Survey datum and control

The gravity surveying, and hence any gravity reductions, used the Australian Height Datum (AHD) as the reference datum. GPS control was established using known survey control previously established in the area. The GPS base used in this survey was the same base used in the previous survey of the Toondina Dam area, base **11**. This base was located at position **564850.134E, 6903443.610N, Height – 76.146m**

4.3 Processing of the position and level data

The GPS grid data was collected using RTK, therefore no post processing was required.

4.4 GPS Performance

Performance from the Leica System 500 was excellent, considering the terrain encountered in most areas.

5. GRAVITY ACQUISITION AND PROCESSING

5.1 Gravity data acquisition

Gravity observations were made on the regular grid while simultaneously setting out the grid using the GPS. Two observations were made for each station. Each observation consisted of a 20-second or greater stacking time. Two observations are made at each station to ensure that any seismic or instrumental noise could be immediately detected, and if necessary additional readings taken. The accepted tolerance between readings was limited to 0.05 milligals to ensure accuracy. Vertical and horizontal levels were restricted to 5 arc seconds at all times. At each station, the station number, time and two gravity readings (in dial units) were recorded in DAISHSAT carbon-copy gravity field books. The Scintrex CG3M also automatically records the station number, time, and relevant readings digitally, to allow for downloading to computer at the end of each survey day.

5.2 Gravity base stations

A single base station **013 (position - 566606.026E, 6916550.224N, Height - 69.98)** was used for calculation of absolute gravity and drift determination. When in the field, a base station reading is taken in the morning before observing, at midday before battery change, at midday after battery change and at evening after the last observation. When taking a base station reading, the observed gravity values were stacked over 60 seconds to ensure accuracy. Two observations of 60 seconds were taken at each base reading. Observations were repeated until the readings repeated to 0.02 of a dial reading or less.

5.3 Gravity data processing

Raw gravity data was processed on a daily basis to check for quality and integrity. This interim process produced a set of Bouguer Gravity values, which were contoured and imaged to provide a check for any anomalous readings that would need repeating.

At the conclusion of the job, the data was processed and formatted to HI MS-Access format using the following gravity corrections within the Geosoft Gravred package:

1. Instrument scale factor: This correction was used to correct a gravity reading (in dial units) to a relative milliGal value based on the meter calibration.

2. Tidal correction: This correction was used to correct for background variations due to changes in the relative position of the moon and sun. The Scintrex calculated ETC was removed and a new ETC calculated using Geosoft Formulae and the surveyed GPS latitude.

3. Instrument Drift: Since gravity meters are mechanical, they are prone to drift (extension of the spring with heat, obeying Hooke's law). If two base readings are taken one can assume that the drift between the two readings is linear and can therefore be calculated. The drift and tidal corrected value is referred to as the observed gravity.

4. Theoretical Gravity: The theoretical value of gravity was calculated using the 1967 variant of the International Gravity Formula and used to latitude correct the observed gravity

5. Free-Air Correction: Since gravity varies inversely with the square of distance, it is necessary to correct for changes in elevation between stations to reduce field readings to a datum surface (in this case, AHD).

6. Bouguer Correction: This correction accounts for the attraction of material between the station and datum plane that is ignored in the free-air calculation. An adopted density of 2.67 gm/cc was used in the correction.

7. Bouguer Gravity: This is obtained when all the preceding reductions or corrections have been applied to the observed gravity reading.

5.4 Gravity meter calibration and scale factors

Gravity meters used have been previously calibrated over a number of calibration ranges in WA and SA.

5.5 Gravity meter drift calibration

While the survey was in progress, the meter was cycled overnight as a check on instrument drift. Changes were made to the drift constant where appropriate.

6. MAGNETICS ACQUISITION AND PROCESSING

6.1 Magnetics data acquisition

Ground magnetics was conducted on 10m intervals using GEM Systems GSM-19 Overhauser magnetometers. All lines were surveyed by foot, with the operator ensuring they are stationary for the three seconds required to take the measurement.

6.2 Magnetics data processing

Magnetic data was processed to Total Magnetic Intensity (TMI) using diurnal corrections obtained from hourly revisits to mag base 1000. Diurnal changes were assumed to be linear between reoccupations, and so a simple linear correction was made to the field data. After removing the diurnal, the final corrected mag was obtained. Another product, MAG NL, was derived to help smooth the high frequency noise from the data. MAG NL, was obtained by filtering the final corrected data with a non-linear filter, with a three point operator. The filter did not remove any peaks/troughs that may be of interpretational interest.

7. RESULTS

Raw and processed GPS and gravity data are contained on CDROM as Appendix B. Hardcopy plots of station location/images are contained in Appendix A.

7.1 Data Repeatability

Analysis of the repeat data shows that measurement repeatability is excellent for both GPS and Gravity observations. Based on the repeat data, one can assume the following typical accuracies for the observables:

X position observation : < 0.05 m
Y position observation : < 0.05 m
Z position observation : < 0.04 m
Gravity observation : < 0.05 mGals

8. ADDITIONAL INFORMATION

Precise locations for four drill hole positions were also asked to be collected, these drill holes were located in the previous survey area at Toondina Dam. Also a pre existing drill hole was speculated to exist in the Ockenden survey area, the location of this drill hole was also acquired. This information can be found in the table below.

Drill Hole ID	Easting	Northing	Height
TNA001	565101.04E	6903283.74N	69.84m
TNA002	564784.41E	6903279.32N	71.61m
TNA003	564570.97E	6903323.54N	73.44m
TNA004	564693.49E	6903191.49N	71.39m
Drill Hole (Ock)			

APPENDIX A

Plots of station location / Images

Appendix 6

Toondina Dam and Ockenden Analytical Report
Rock Chip and Drill Core Samples
Genalysis Laboratory Services

OCKENDEN ASSAYS

COMMENTS: 742.0/0206400 (23/10/2002) CLIENT O/N: 14452

ELEMENTS UNITS DETECTION METHOD	Au ppb 1 B/MS	Au-Rp1 ppb 1 B/ETA	Co ppm 1 B/OES	Cu ppm 1 B/OES	Fe % 0.01 B/OES	U ppm 0.01 B/MS
SAMPLE NUMBERS						
P384147	2		36	37	8.69	0.29
P384148	3		38	272	11.28	0.51
P384149	3		36	301	11.12	0.53
P384150	8	7	39	873	12.61	1.05
P384151	3		32	516	12.77	1.05
P384152	-1		46	513	13.87	0.66
P384153	2		36	247	11.17	0.6
P384154	2		37	116	9.24	0.69
P384155	2		38	23	9.51	0.41
P384156	-1		37	139	9.33	0.59
P384157	-1		42	90	8.9	0.28
P384158	2		38	71	8.8	0.26
P384159	1		38	114	8.36	0.27
P384160	2		35	103	7.65	0.25
P384161	2		38	90	8.02	0.25
P384162	12	18	43	161	9.27	0.75
P384163	2		45	37	9.11	0.45
P384164	2		40	22	8.22	0.27
P384165	2		39	5	7.45	0.18
P384166	2		33	7	6.51	0.21
P384167	4		37	9	7.05	0.17
P384168	6		35	20	7.27	0.21
P384169	3		44	111	10.53	0.23
P384170	8		47	138	9.72	0.2
CHECKS						
P384147	-1		39	41	9.26	0.3
STANDARDS						
GLS15	326		19	74	2.66	3.53
BLANKS						
Control Blank	-1		-1	-1	0.01	-0.01

TOONDINA ROCK CHIP

COMMENTS: 742.0/0205951 (09/10/2002) CLIENT O/N: RESEARCH 1

ELEMENTS UNITS DETECTION METHOD	Au ppb 1 B/ETA	Ag ppm 0.01 B/MS	As ppm 0.5 B/MS	Co ppm 1 B/OES	Cu ppm 1 B/OES	Fe % 0.01 B/OES	Mn ppm 1 B/OES	U ppm 0.01 B/MS	Zn ppm 1 B/OES
SAMPLE NUMBERS									
P384130	-1	0.06	4.5	856	22	1.69	21883	1.05	1564
P384131	-1	-0.01	4.7	753	19	1.71	24101	0.7	1818
P384132	-1	-0.01	3	787	19	1.39	22643	0.83	1612
P384133	-1	-0.01	3.5	595	18	1.62	22257	0.46	2031
P384134	-1	-0.01	4	538	14	0.97	27519	0.47	1162
P384135	-1	0.03	3.5	571	15	0.99	27860	0.45	1201
P384136	-1	0.02	4.9	722	16	1.31	26224	0.89	1304
P384137	-1	-0.01	2.7	675	10	1.08	23991	0.33	1293
P384138	-1	0.02	2.7	876	11	1.03	30881	0.44	1518
P384139	-1	-0.01	3.4	470	9	1.06	21044	0.4	1164
P384140	-1	0.01	3.9	704	13	1.2	27509	0.63	1204
P384141	-1	0.04	3.3	712	12	1.13	29139	0.54	1229
P384142	-1	0.12	4.2	866	20	1.21	31497	0.37	1353
P384143	-1	0.05	2.8	1043	19	1.1	32136	0.34	1446
P384144	-1	0.05	3	624	16	1.15	30473	0.24	1969
P384145	1	0.01	3.4	686	13	0.84	21172	0.47	1292
CHECKS									
P384130	-1	0.02	4	865	22	1.69	22390	1.02	1603
STANDARDS									
PL-9	21	0.18	17.6	10	22	10.88	126	2.3	22
BLANKS									
Control Blank	-1	-0.01	-0.5	-1	-1	-0.01	1	-0.01	-1

TOONDINA ASSAYS 1

COMMENTS: 742.0/0205224 (13/09/2002) CLIENT O/N: TNA001

ELEMENTS	p75um	Au	Au-Rp1	Co	Cu	Fe	U
UNITS	%	ppb	ppb	ppm	ppm	%	ppm
DETECTION	0.01	1	1	1	1	0.01	0.01
METHOD	/QAgrind	B/ETA	B/ETA	B/OES	B/OES	B/OES	B/MS
SAMPLE							
P262511		7		32	13	7.68	0.33
P262512		9	11	26	7	6.56	0.17
P262513		4		32	4	7.59	0.18
P262514		14	14	45	2	9.46	0.21
P262515		3		33	4	8.37	0.24
P262516		2		40	6	9.22	0.27
P262517		3		36	2	8.76	0.26
P262518		7	4	32	9	8.07	0.29
P262519		2		22	56	4.21	0.65
P262520		4		25	4	5.5	0.71
P262521		5	4	39	-1	9.25	0.45
P262522		1		31	11	7.92	0.35
P262523		3		42	227	6.69	0.32
P262524		2		30	227	5.76	0.25
P262525		2		31	13	6.76	0.41
P262526		-1		36	9	7.77	0.24
P262527		2		38	9	8.07	0.22
P262528		2		31	2	6.85	0.17
P262529		2		31	-1	6.45	0.16
P262530		5	5	30	103	6.59	0.16
P262531		6	9	28	228	5.93	0.15
P262532		5	4	27	16	5.82	0.14
P262533		4		25	298	5.74	0.16
P262534		2		26	83	5.9	0.17
P262535	84.22	3		30	18	6.31	0.15
P262536		4		27	54	6.12	0.16
P262537		2		25	1768	5.65	0.2
P262538		1		21	61	5.5	0.37
P262539		4		26	3	5.91	0.2
P262540		2		29	3	6.41	0.2
P262541		2		25	-1	5.66	0.18
P262542		4		28	-1	6.05	0.16
P262543		2		28	-1	6.22	0.12
P262544		4		29	1	6.24	0.15
P262545		7	7	27	3	5.77	0.16
P262546		3		27	-1	5.73	0.15
P262547		3		25	-1	5.54	0.13
P262548		5		27	2	6.25	0.14
P262549		2		31	4	6.6	0.17
P262550		4		49	19	9.63	0.35
P262551		1		19	74	4.85	0.79
P262552		-1		13	8	4.63	0.87
P262553		-1		17	17	4.28	0.81
P262554		-1		16	24	3.86	1.33
P262555		-1		12	25	3.29	1.64
P262556		-1		25	139	4.39	1.67
P262557		-1		14	47	4.52	1.06
P262558		-1		21	12	4.22	0.86
P262559		-1		19	4	4.95	1.16

Toondina Assays 1 (continued)

ELEMENTS UNITS DETECTION METHOD	p75um % 0.01 /QAgrind	Au ppb 1 B/ETA	Au-Rp1 ppb 1 B/ETA	Co ppm 1 B/OES	Cu ppm 1 B/OES	Fe % 0.01 B/OES	U ppm 0.01 B/MS
SAMPLE NUMBERS							
P262564		3		64	16	6.24	1.59
P262565		-1		22	5	5.42	5.76
P262566		-1		27	2	6.24	0.68
P262567		-1		29	2	6.71	1.01
P262568		1		6	57	2.41	0.78
P262569		-1		30	44	4.05	0.73
P262570		2		26	11	3.98	0.92
P262571		-1		15	29	2.43	0.97
P262572		-1		10	12	1.82	1.38
P262573		-1		10	10	2.55	1.78
P262574		-1		12	8	2.88	1.18
P262575		-1		19	6	5.15	1.15
P262576		-1		17	2	4.95	1.21
P262577		-1		20	2	5.02	1.07
P262578		-1		21	3	5.59	0.77
P262579		-1		18	23	4.49	1.28
P262580		-1		16	4	4.43	1.33
P262581		-1		16	8	5.65	1.69
P262582		-1		20	3	6.07	1.28
P262583		-1		17	6	6.6	1.43
P262584		-1		14	5	4.51	0.95
P262585	95.43	-1		14	5	4.75	1.19
P262586		-1		17	4	5.5	1.39
P262587		-1		16	5	4.72	1.31
P262588		-1		15	5	5.2	1.18
P262589		-1		14	13	5.1	1.05
P262590		-1		13	8	3.69	0.69
P262591		-1		12	23	3.88	0.84
P262592		-1		12	33	3.44	0.68
P262593		1		24	64	5.82	1.18
P262594		-1		10	16	3	1.14
P262595		-1		26	10	7.05	0.98
P262596		8	8	24	10	6.6	1.26
P262597		-1		4	15	1.22	0.36
P262598		1		11	29	3.73	0.68
P262599		2		7	14	2.84	0.67
P262600		1		21	34	4.61	0.56
P262601		2		19	279	4.76	0.58
P262602		-1		23	373	6.25	0.95
P262603		4		36	647	9.51	1.22
P262604		1		18	295	5.89	1.1
P262605		-1		10	104	3.24	0.8
P262606		-1		15	8	4.11	0.92
P262607		-1		5	9	1.62	0.97
P262608		-1		15	27	4.22	1.27
P262609		1		20	34	5.67	1.63
P262610	90.67	1		18	37	4.46	1.42
P262611		1		16	15	3.86	1.26
P262612		-1		20	8	5.07	1.16
P262613		-1		17	37	3.76	1.44
P262614		1		29	48	5.49	1.33

Toondina Assays 1 (continued)

ELEMENTS UNITS DETECTION METHOD	p75um % 0.01 /QAgrind	Au ppb 1 B/ETA	Au-Rp1 ppb 1 B/ETA	Co ppm 1 B/OES	Cu ppm 1 B/OES	Fe % 0.01 B/OES	U ppm 0.01 B/MS
SAMPLE NUMBERS							
P262615		-1		7	13	1.71	0.44
P262616		-1		40	158	7.43	1.39
P262617		-1		19	12	5.04	0.91
P262618		1		19	41	4.77	0.77
P262619		2		18	120	4.8	0.96
P262620		5		17	21	4.43	1.25
P262621		-1		6	5	1.63	0.85
P262622		-1		5	26	1.6	1.2
P262623		1		18	123	4.71	1.13
P262624		-1		18	107	4.23	1.24
P262625		1		22	33	4.88	0.5
P262626		1		26	7	5.62	0.8
P262627		2		34	7	4.13	1.07
P262628		-1		16	2	6.16	1.27
P262629		-1		16	4	4.39	1.3
P262630		1		10	17	2.68	1.5
P262631		-1		16	-1	7.88	4.32
P262632		-1		11	9	2.98	1.39
P262633		1		26	267	5.37	2.22
P262634		-1		19	68	5.14	0.67
P262635	93.45	1		5	4	1.64	1.39
P262636		-1		-1	-1	0.02	-0.01
P262637		-1		18	51	4.35	2.82
P262638		-1		26	71	12.98	4.87
P262639		-1		32	13	7.68	0.33
P262640		-1		6	4	1.71	1.4
P262641		3		18	52	4.13	2.86
P262642		2		23	58	10.58	4.19
CHECKS							
P262511		11		32	13	7.3	0.31
P262537		2		23	1709	4.96	0.18
P262563		-1		20	6	4.18	1.53
P262589		-1		15	15	5.51	1.16
P262615		-1		7	14	1.84	0.46
P262641		2		16	44	3.91	2.55
STANDARDS							
PL-9		21		10	24	11.09	2.53
AE10		112		44	100	5.04	2.76
BSL2		5		6	24	8.5	4.66
CMM-03		46		37	93	5.97	0.59
NGL-16		18		7	16	4.95	11.32
PL-9		20		9	24	11.25	2.5
BLANKS							
Control Blank		-1		-1	-1	0.01	-0.01
Control Blank		-1		-1	-1	-0.01	-0.01

TOONDINA ASSAYS 2

COMMENTS: 742.0/0205441 (04/10/2002) CLIENT O/N: RESEARCH 1

ELEMENTS	p75um	Au	Ag	As	Co	Cu	Fe	Mn	U	Zn
UNITS	%	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
DETECTION	0.01	1	0.01	0.5	1	1	0.01	1	0.01	1
METHOD	/QAgrind	B/ETA	B/MS	B/MS	B/OES	B/OES	B/OES	B/OES	B/MS	B/OES
SAMPLE NUMBERS										
P262503		-1	0.02	2.7	725	19	0.78	24223	0.29	1109
P262504		-1	0.16	3.1	570	17	1.38	20189	0.44	1943
P262505		-1	0.04	3.7	5	9	1.33	6923	0.11	647
P262506		-1	-0.01	3.2	3	7	1.11	6069	0.09	531
P262507		-1	0.03	4.4	6	10	1.51	10356	0.13	392
P262508		-1	0.03	4	7	18	1.44	7925	0.1	470
P262509		-1	0.01	3.5	3	6	1.09	7502	0.11	316
P262510		-1	-0.01	3	3	6	1.12	7716	0.11	504
P262643		-1	0.03	8.2	8	19	2.87	526	0.63	95
P262644		-1	0.07	8.7	4	16	3.02	245	0.78	67
P262645		-1	0.12	6.6	10	24	3.01	210	0.56	100
P262646		-1	0.05	9.7	9	19	3.16	237	0.66	81
P262647		-1	0.07	9.4	9	21	2.84	679	0.59	70
P262648		-1	0.05	8	12	23	3.29	288	0.55	86
P262649		-1	0.06	10.1	13	22	3.66	244	0.6	90
P262650		-1	0.04	8.4	11	19	2.87	202	0.52	80
P262651		-1	0.04	6.4	11	22	2.86	461	0.58	78
P262652		-1	0.04	7.7	12	22	4.46	337	0.58	74
P262653		-1	0.06	6.9	13	108	4.36	628	0.55	83
P262654		-1	0.04	7.3	11	172	4.43	1411	0.53	68
P262655		-1	0.05	6.2	12	199	4.92	1012	0.55	65
P262656		-1	0.06	8.5	12	177	4.83	1671	0.64	62
P262657		-1	0.05	7.5	11	201	4.48	913	0.88	59
P262658		-1	0.03	11	9	108	4.57	1465	0.72	36
P262659	85.52	-1	0.03	17.5	16	127	10.93	2208	1.33	70
P262660		-1	0.03	2.8	9	149	4.2	767	0.59	37
P262661		-1	0.03	3	10	145	4.38	804	0.65	43
P262662		-1	0.03	4.9	9	143	4.9	1372	0.72	39
P262663		-1	0.02	4.2	7	130	3.71	703	0.51	29
P262664		-1	0.03	3.8	9	126	5.46	1119	0.71	30
P262665		-1	0.05	3.4	6	123	3.62	734	0.4	21
P262666		-1	0.03	4.4	6	131	4.23	743	0.44	23
P262667		-1	0.01	3.4	4	104	2.78	605	0.32	14
P262668		-1	-0.01	2.7	4	96	2.16	511	0.3	13
P262669		-1	0.04	3.6	5	105	2.79	585	0.4	17
P262670		1	0.01	4.9	7	94	2.99	554	0.38	27
P262671		1	0.04	13.2	9	13	4.16	3086	0.62	70
P262672		-1	0.01	5	4	10	1.91	4658	0.4	32
CHECKS										
P262503		-1	0.02	2.7	768	14	0.85	23420	0.3	1184
P262661		1	0.03	3.6	14	167	4.57	910	0.69	53
STANDARDS										
CMM-03		44	0.79	74	33	89	5.26	310	0.53	77
NGL-16		17	0.49	25.5	8	16	5	108	11.23	26
PL-9		19	0.17	17.7	11	25	11.18	130	2.37	25
BLANKS										
Control Blank		-1	0.01	-0.5	-1	-1	-0.01	-1	-0.01	-1

TOONDINA ASSAYS 3

COMMENTS: 742.0/0205877 (07/10/2002) CLIENT O/N: TNA002

ELEMENTS	p75um	Au	Au-Rp1	Co	Cu	Fe	U
UNITS	%	ppb	ppb	ppm	ppm	%	ppm
DETECTION	0.01	1	1	1	1	0.01	0.01
METHOD	/QAgrind	B/MS	B/ETA	B/OES	B/OES	B/OES	B/MS
SAMPLE NUMBERS							
P262673		2		34	7	6.85	0.16
P262674		2		37	6	8.48	0.26
P262675		2		36	14	8.1	0.23
P262676		-1		38	7	8.82	0.4
P262677		1		43	5	9.01	0.44
P262678		4		42	5	7.11	0.15
P262679		6		41	6	6.45	0.21
P262680		4		42	5	6.92	0.17
P262681		27	46	34	6	6.11	0.16
P262682		22	12	34	7	5.63	0.16
P262683		5		30	10	5.3	0.28
P262684		-1		27	9	4.89	0.28
P262685		6		40	7	6.27	0.23
P262686		2		36	11	6.77	0.25
P262687		7		37	7	5.58	0.21
P262688		1		36	8	5.5	0.21
P262689		2		33	5	5.14	0.21
P262690		-1		34	3	5.41	0.18
P262691		2		30	9	5.59	0.26
P262692		-1		33	20	5.57	0.59
P262693		-1		36	12	7.36	0.77
P262694		-1		34	9	6.69	0.4
P262695		-1		38	4	5.79	0.23
P262696		-1		40	15	6.12	0.41
P262697	82.88	-1		37	35	5.92	0.2
P262698		-1		34	44	5.78	0.17
P262699		4		29	11	4.81	0.16
P262700		1		30	50	4.5	0.15
P384001		2		29	236	4.87	0.16
P384002		7		28	57	4.43	0.14
P384003		-1		27	6	4.85	0.12
P384004		4		27	13	5.05	0.12
P384005		-1		33	10	5.82	0.24
P384006		-1		21	14	4.74	0.19
P384007		16	15	29	12	6.13	0.19
P384008		-1		27	6	5.17	0.15
P384009		-1		27	7	5.11	0.15
P384010		1		32	5	5.27	0.14
P384011		2		32	8	4.91	0.11
P384012		-1		28	6	4.31	0.11
P384013		2		27	10	3.98	0.1
P384014		5		24	10	4.31	0.09
P384015		3		27	32	4.65	0.09
P384016		-1		32	17	4.96	0.16
P384017		-1		28	13	4.85	0.14
P384018		3		23	74	4.44	0.13
P384019		-1		30	13	5.1	0.14
P384020		-1		25	15	5.09	0.2
P384021		-1		26	8	4.81	0.11
P384022	63.76	-1		27	23	5.03	0.11
P384023		-1		23	11	4.83	0.19
P384024		-1		34	69	5.16	0.15
P384025		-1		28	8	4.71	0.14
P384026		2		26	19	5.26	0.14
P384027		-1		23	49	5.79	0.18
P384028		5		53	191	5.23	0.2
P384029		2		75	31	5.05	0.5

Toondina Assays 3 (continued)

ELEMENTS	p75um	Au	Au-Rp1	Co	Cu	Fe	U
UNITS	%	ppb	ppb	ppm	ppm	%	ppm
DETECTION	0.01	1	1	1	1	0.01	0.01
METHOD	/QAgrind	B/MS	B/ETA	B/OES	B/OES	B/OES	B/MS
SAMPLE NUMBERS							
P384030		2		19	46	3.01	0.92
P384031		4		45	36	8.78	0.5
P384032		2		62	404	6.61	0.31
P384033		1		69	370	6.61	0.27
P384034		-1		31	400	7.62	0.29
P384035		-1		26	88	6.3	0.19
P384036		2		29	173	6.93	0.21
P384037		-1		28	187	6.26	0.21
P384038		4		29	111	6.47	0.21
P384039		-1		31	72	6.67	0.22
P384040		-1		29	38	6.71	0.23
P384041		1		31	839	6.18	0.24
P384042		3		27	419	5.52	0.18
P384043		1		34	18	6.73	0.18
P384044		-1		34	74	6.67	0.18
P384045		2		38	120	7.1	0.15
P384046		-1		39	50	6.69	0.15
P384047	64.14	4		43	63	7.51	0.17
P384048		7		35	74	6.64	0.21
P384049		11	7	30	310	5.77	0.22
P384050		40	28	32	156	6.43	0.39
P384051		19	16	30	14	6.25	0.29
P384052		5		33	8	6.52	0.26
P384053		9	10	44	8	9.55	0.28
P384054		9	8	44	6	8.47	0.24
P384055		3		36	4	6.79	0.17
P384056		-1		35	19	6.44	0.18
P384057		2		35	165	6.63	0.17
P384058		2		38	115	7.28	0.18
P384059		2		32	10	6.04	0.15
P384060		2		34	8	6.91	0.26
P384061		3		33	118	6.55	0.21
P384062		-1		33	114	6.53	0.18
P384063		3		30	160	6.66	0.32
P384064		4		39	4	7.67	0.16
P384065		-1		34	62	6.68	0.15
P384066		3		36	46	6.62	0.13
P384067		-1		32	12	6.19	0.15
P384068		-1		30	11	5.79	0.28
P384069		-1		31	4	5.69	0.3
P384070		-1		33	33	6	0.13
P384071		-1		34	34	5.88	0.14
P384072	87.45	-1		34	40	6.13	0.4
P384073		1		34	36	5.87	0.28
P384074		-1		36	122	6.45	0.47
P384075		-1		34	13	6.03	0.3
P384076		1		34	16	5.89	0.16
P384077		-1		33	5	5.96	0.19
P384078		5		29	3	6.29	0.16
P384079		6		31	13	6.34	0.14
P384080		1		35	9	6.39	0.15
P384081		5		40	13	7.23	0.22
P384082		8	8	21	7	6.37	1.04
P384083		-1		31	5	8.07	0.95
P384084		2		24	6	6.29	0.81
P384085		-1		13	12	3.23	0.69
P384086		-1		14	7	8.48	1.19
P384087		-1		16	2	6.47	0.51
P384088		-1		17	2	7.57	0.59

Toondina Assays 3 (continued)

ELEMENTS	p75um	Au	Au-Rp1	Co	Cu	Fe	U
UNITS	%	ppb	ppb	ppm	ppm	%	ppm
DETECTION	0.01	1	1	1	1	0.01	0.01
METHOD	/QAgrind	B/MS	B/ETA	B/OES	B/OES	B/OES	B/MS
SAMPLE NUMBERS							
P384089		-1		3	27	3.06	1.96
P384090		-1		3	11	2.55	3.2
P384091		-1		30	6	2.66	2.57
P384092		-1		2	21	1.71	3.52
P384093		-1		2	9	2.45	5.07
P384094		-1		8	4	3.88	3.11
P384095		-1		19	2	7.31	1.18
P384096		-1		19	2	8.37	1.02
P384097	89.9	-1		16	10	9.37	1.41
P384098		-1		14	3	7.29	1.03
P384099		-1		6	7	3.5	1.62
P384100		-1		7	7	4.06	1.43
P384101		-1		5	21	2.83	0.94
P384102		-1		4	26	2.58	2.21
P384103		1		6	28	1.53	1.9
P384104		-1		10	15	2.02	3.05
P384105		-1		6	44	2.09	1.2
P384106		-1		22	5	7.32	0.59
P384107		-1		7	5	2.14	0.42
P384108		-1		21	2	5.65	0.32
P384109		-1		3	9	1.39	0.75
P384110		-1		24	23	6.38	0.42
P384111		-1		12	17	3.14	0.91
P384112		-1		4	30	1.28	0.81
P384113		-1		4	38	1.77	0.98
P384114		-1		18	14	4.38	0.82
P384115		-1		8	36	2.32	0.74
P384116		-1		8	51	1.47	0.81
P384117		-1		15	11	3.76	1.39
P384118		-1		33	33	8.56	3.52
P384119		-1		39	35	7.91	0.91
P384120		-1		33	90	7.88	0.73
P384121		-1		38	31	8.63	0.63
P384122	80.81	-1		23	242	5.63	0.57
P384123		-1		21	12	5.01	0.67
P384124		-1		15	72	3.44	1.25
P384125		-1		27	20	5.2	0.9
P384126		1		23	34	5.37	4.3
P384127		2		17	19	4.49	0.78
P384128		-1		18	114	4.06	0.87
P384129		-1		26	13	6.11	0.86
CHECKS							
P262673		-1		31	6	6.21	0.15
P262699		4		31	12	5.47	0.18
P384025		1		27	7	4.35	0.12
P384051		13		33	15	6.97	0.29
P384077		1		34	6	6.05	0.16
P384103		-1		7	30	1.69	1.9
P384129		-1		27	14	6.42	0.88
STANDARDS							
AE10		96		40	99	5.3	2.79
BSL2		4		6	24	9.38	4.61
CMM-03		50		38	92	5.57	0.57
NGL-16		13		8	17	5.56	11.08
PL-9		18		10	23	10.92	2.31
AE10		77		40	96	5.43	2.55
BSL2		4		5	30	8.96	5.61
BLANKS							
Control Blank		-1		-1	-1	-0.01	-0.01

Appendix 7

Drill logs for TNA001, TNA002 and OCK001
ReLODE Limited

ReLODE Limited Diamond Drill Logging Sheet

Project	OODNADATTA
Location	OCKENDEN
Date	6th September 2002

Completed 20th September 2002

Drill Co.	NITSCHKE
Drill Type	JND
Logged by	G. KELLY

M. DEPTMAN

Grid	MGA
Northing	6,916,050
Easting	566,700

Dip	-90°
Azimuth	0
RL	+81

HOLE # OCK001	OCK001
EOH (m)	180
Water Table (m)	
Precoller Depth (m)	86
BOCO Depth (m)	
BOPO Depth (m)	

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	0	2	0	SOIL	Light, yellow-brown alluvial clay loams 0.25m, then weakly cemented gypsiferous clays and sands
	2	4	0	GYCT	Pale yellow, heavily gypsiferous cemented sands and grits - a gypcrete
	4	5	0	GRIT	Dark grey brown - black ironstone grits, alluvial sand and grits; all free running, necessitating barite mud drilling. Hence all samples below 5m are wet, sump needed bogging out.
	5	6	0	RSR	Slightly contaminated medium grey weakly weathered saprock to laminated vfg. Bulldog Shale
	6	30	0	SHLE	Barite mud cemented fresh dark grey finely laminated Bulldog Shale Stopped temporarily at 30m to bog out sump on 7th & 8th Sept.,
	30	50	0		Continued mud drag bit 9th September / less and less competent black shale to mudstone. Probably chemically dispersed/broken down by the drilling muds. End of Bulldog Shale unit, although subsequent or deeper intervals all contain Bulldog Shale 'ripped' off open hole sides Start of Cadna-Owie Formation
	50	52	0	SDST-(SHLE)	Pale grey silty fine sands to friable carbonate-bearing sandstone with alternating narrow, pale grey clays to shale fragments. (Plus black B. Shale frags.)
	52	56	0	SDST	Pale grey fine grained sandstone with 40% medium grained ooids or highly rounded dark grey quartz grains - equivalent to dark grey unit in TNA002, also weakly carbonate-bearing.
	56	66	0	SDST	Pale grey f.g. silty sandstone

HOLE # OCK001 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	66	68	0	SDST-(PM)	Semi-indurated pale grey f.g. sandstone/rare 80% pyrite cement matrix
Alge. ↓	68	70	0	SDST	Hybrid sample, pale grey silty hard f.g. sandstone and 50% coarse grained clear quartz grains ripped off Algebuckina Sandstone ??
	70	72	10	GVL	Very hard drilling, almost refusal/Hard band of c.g. sandstone, c.g. clear quartz grains and rare dark pink glassy/m.g. matrix support quartzite/possibly a conglomerate pebble.
	72	78	0	SDST	Coarse grained clear quartz plus trace dark pink quartzite chips
	78	80	0	SLST	Pale brown/fawn siltstone clods with up-hole contamination of coarse grained sand grains.
	80	82	0	SLST	Mottled, medium brown siltstone and palest fawn 'siltstone' with fine grained clear quartz grains embedded.
	82	84	0	CLST	Palest fawn to cream sandy clays, reflecting alternating bands or near-source granitic lower saprolite of Archaean! Includes c.g. clear quartz grains of the Algebuckina Sandstone unit.
	84	86	0	CLST	Medium grey-green clays with minor coarse grained quartz grains
	86	88⁻ ↓ 87.2	100	DRT?	Coarse grained 10-15% actinolite in a pale grey plagioclase - partly ? sericitised and 1% pink f.g. to m.g. leucoxene in the matrix. Chips are not definitive, but it is possibly weakly hydrothermally altered DIORITE or QUARTZ DIORITE, rather than a gabbroic intrusive. Interesting possibilities arise for a comagmatic relationship with the altered andesites in the Taoudina Dam Prospect.(???) Wait for core....
				ANT	
	87.2			BOT-AMY	START OF CORING Wed 18th Sept, 1300 Hrs. First run had some cement in it, only
	87.23	93.0	100	-(HEM-MT)	'Basement' placed in core tray, to 89.87m./Geology-Medium grainsize, 2-4 mm chlorite-filled amygdules up to 10-15% of rock, lath meshwork of f.g. plagioclase, extensively altered to sericite(?)-carbonate, plus 1% disseminated f.g. hematite. Matrix also has 5% f.g. magnetite(?) in part rim altered to hematite (hm). Pencil magnet reactive. Microphenocrysts of dark green amphibole, plus irregular masses attain 40% of rock other 60% is plagioclase, so Protolith is closer to a basalt than the andesite of TNA001 & 2. Narrow 1cm wide Hematite vein @ 30° to L.C.A. at 87.80m.
		99.50		ANT	
	93.0	[illegible]	100	BOT-HEM	Increasing Hem matrix alteration 5% to 20% at ca 20° LCA Fault-chlorite slickensides, then decreasing to 5% at 98m. Amygdules fine to absent. Run ends 98.67

HOLE #

ReLODE Limited Diamond Drill Logging Sheet

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	99.50	99.70	100	HYA	Red brown haematized flow top breccia with angular fragments to 0.5cm diameter in a red brown haematized groundmass with minor carbonated fragments. The texture is that of a hyaloclastite.
	99.70	104.1	100	ANT-AMY	Pale red brown amygdaloidal basalt with chlorite and lesser carbonate filled vesicles to 1.5cm in diameter. There is trace pyrite as vesicle infill, usually in the chlorite component. The chlorite amygdales usually have a rim of haematite but this is not always present. The groundmass is a fine grained mixture of plagioclase + pyroxene laths with interstitial haematite. Overall the groundmass has a fine dusting of haematite. Trace fine calcite veinlets run at a high angle to the LCA.
	104.1	106.2	100	FLTZ	Green chlorite ~~alteration~~ zone? with sharp upper and lower contacts at high angle to the LCA. The nature of this unit is moderately sheared with quartz-carbonate veining and brecciation with angular fragments to 2cm in diameter. Some of the fragments have remnant phenocrysts which indicates a volcanic precursor. The vein and matrix is soft and comprises 30% of this unit
	106.2	108.5	100	ANT	Light brown porphyritic andesite with trace vesicular nature (<1%). Plagioclase + Pyroxene phenocrysts to 2mm dominate along with disseminated haematite and a light overall dusting of haematite. The lower contact is gradational and this may merely be a variant of the lower vesicular unit
	108.5	122.18	100	ANT-AMY	Light brown amygdaloidal andesite with chlorite and minor carbonate filled vesicles to 2cm in diameter. As with the previous vesicular unit the amygdales have a haematite halo with many having exited from the chlorite along with trace pyrite. There is a minor dusting of haematite throughout the rock as previously mentioned. There is a prominent haematite-quartz-chlorite vein a high angle the core axis (near vertical attitude) which is 1cm thick.
	122.18	142.6	100	ANT	Identical unit to the andesite at 106m and is likely to be a non porphyritic variant of the unit above. A 1cm quartz carbonate vein at 132.5m dips at 85°/025°. Other minor veinlets all have steep attitudes with a NE dip.
	142.6	147.1	100	ANT-AMY	Red brown amygdaloidal andesite with decreasing haematization towards the base of this unit. The haematization at the top of the unit is pervasive through the groundmass and less so down the hole. The matrix is aphanitic unlike the porphyritic groundmass of the above unit. The vesicles are generally chlorite filled with lesser calcite. Minor thin calcite veinlets to 3cm in width have a steep NW and NE attitude.

HOLE # OCK001

ReLODE Limited Diamond Drill Logging Sheet

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	147.1	155.22	100	ANT	Porphyritic andesite as for previous units. The main distinction is in the veinlets which account for 1-2% of the rock Veinlet 1 - Calcite veinlet dipping at 80-85°/SW and up to 3mm. Veinlet 2 - Pink feldspar? filled veinlet dipping at 80-85°/NW and also to 3mm in width Some of the calcite veinlets are also filled with the pink feldspar. A fine dusting of haematite occurs throughout this unit
	155.22				
	~~147.1~~	155.72	100	ANT-AMY	Coarser plagioclase phyric andesite with phenocrysts to 4-5mm in length. The pink feldspar dominate the matrix with 50% and the remainder a finer mix of haematite, chlorite pyroxene with local chlorite filled amygdules. This coarser feldspar phyric phase has a sharp upper contact and given the unit is vesicular slightly differential cooling temperatures were involved
	155.72	166.60	100	ANT	This is an identical unit to the unit at 147.1m with trace calcite veinlets (85°/025°) between 159-162m to 3m in width and occupying 1% of the unit. The matrix has a versatile dusting of haematite to 5% of the rock along with disseminated haematite to 1% in the matrix
	166.60	167.50	100	ANT-CL (FLTZ)	Green chloritic andesite with primary igneous textures still obvious. This unit is identical to the fault zone at 64m but less intensely sheared. The attitude of the shearing is 045°/NW with associated calcite-quartz-chlorite veining to 2cm in width. Both these chlorite zones are expressions of faulting and minor shearing. Chlorite is pervasive in the ground mass.
	167.50	180.0 EOH	100	ANT	Light brown porphyritic andesite with trace calcite veining at steep attitudes to NW and NE with minor pink feldspar associated with the veining One 3cm wide breccia zone 178.8m has angular fragments of andesite with a carbonate-quartz. The orientation of the breccia zone is 50°/SE There is a light dusting of haematite throughout the rock Summary OCK001 has intersected a vesicular andesite with is locally less vesicular to more porphyritic with increase in haematization of the groundmass to 10%. There are two chlorite fault zones with quartz/calcite infill. The overall rock is massive with minimal alteration as evident by the relatively unaltered feldspar phenocrysts.

ReLODE Limited Diamond Drill Logging Sheet

Project	OODNADATTA
Location	OCKENDEN
Date	5th Sept., 2002

Drill Co.	NITSCHKE
Drill Type	JND
Logged by	G. KELLY

Grid	MGA
Northing	6,916,150
Easting	566,600

Dip	-90°
Azimuth	0
RL	

HOLE #OWB001	OWB00 1
EOH (m)	48·5+
Water Table (m)	48·0
Precoller Depth (m)	28·0
BOCO Depth (m)	
BOPO Depth (m)	

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
5th Sept., 02	0	3	0	GY CT	Pale yellow brown intensely gypsum impregnated alluvial clays and sands, incl. extensive gypsum veins in a c. g. meshwork of gypcrete
	3	4	0	RSR	Sharp change to pale green, moderately weathered Bulldog Shale Saprock
	4	26	0	SHLE	Medium to dark grey vfg laminated shale, Bulldog Shale fresh.
					28 End of 8⅝" Drag Bit Hole - equal to oversize R.A.B.
	26	28	0	SHLE-CAL	Medium grey v.f.g. laminated shale with matrix & microveinlet calcite - strong reaction to HCl
6th Sept, 02	28	48	0	SHLE	Start of 6" Drag Bit Hole. Black, moist v.f.g. laminated Bulldog Black Shale
	48	48·5	0	SND	Break through into pale grey, free-running sands, ie. poorly consolidated Cadna-Owie Formation. Sands are 0.1 m to 0.2 mm diameter, well sorted and rounded to subrounded clear quartz, with minor silty clays. Water Flow while rods are in the hole 40 secs to Fill 25 litre plastic bucket, equivalent to 2,250 litres per hour. Taste test is excellent fresh water. Sample taken. Shut in pressure 14 p.s.i Flow test on 9th September, 2002 was 23 secs for 25 litres or 4,000 litres per hour.

ReLODE Limited Diamond Drill Logging Sheet

Project	Coalcraft/Ca
Location	Tandora Dam
Date	21/7/02

Drill Co.	Nitschke
Drill Type	Rotary/Diamond
Logged by	M. Denison / C. Kelly

Grid	AMG (CDA94)
Northing	6903283.7
Easting	565112.0

Dip	Vertical
Azimuth	NA
RL	69.8m

HOLE #	TNA001
EOH (m)	
Water Table (m)	54
Precoller Depth (m)	108
BOCO Depth (m)	
BOPO Depth (m)	

* PRECOLLAR *

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	0	52		SHLE	Grey fissile shale with bedding parallel layer of gypsum to 5cm thick. Moderately weathered * BULLDOG SHALE *
	54	56		SND	Light grey quartz sand with minor silt. This unit is an aquifer with the following characteristics Flow Rate: 1 ltr/second or 800 gallons/hour Head Pressure: 23 psi Water Quality: Slight salty taste, no pungent odours
	56	66		SDST	Light grey quartz Sandstone with angular to slightly rounded quartz grains with <1cm clayey matrix. Up to 5% shale interbeds
	66	70		SLST	Grey Siltstone with minor sandstone (2cm). Highly weathered and very friable. The minor sandstone has a clayey matrix and may be exclusive? in nature
	70	72		SDST	Grey quartz sandstone with up to 10% clayey matrix. Considerably harder than the previous unit
	72	84		SLST	Khaki/grey siltstone with up to 5% quartz granules (SDST?) in the sample. Very soft and friable.
	84	86		SND	Coarse quartz sand with minor clay. Sub rounded to rounded grains of water washed quartz to 1-2cm in diameter. This is likely to be another aquifer layer. Clay content increased to ~30% in the interval 86-88m

HOLE # TNA001 | ReLODE Limited Diamond Drill Logging Sheet | Page 2 of

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	86	102		SLT	Light grey sandy Slt. Dominantly a Silt with up to 20% quartz granules (Semi rounded - rounded).
	102	107		SLT	Grey Silt with minor rounded to Sub rounded quartz grains with local harder bands
	107	108		DRT?	Grey altered mafic (Ultramafic?) intrusive at bedrock to the above Great Artesian Basin Sediments.
		EOH			Moderately altered with signs of sericite/carbonate alteration? and local hematite alteration. The rock is very hard and there was no weathered zone below the Great Artesian Basin Sediments
		Precollar			

Pre collar Summary

0 - 52 Bulldog Shale (shale)

54 - 56 Quartz Sand (aquifer)

54 - 84 Cadna-Owie Fm? (alternating sandstone and siltstone)

84 - 86 Quartz Sand (aquifer)

86 - 107 Quartz Silt (Algebuckina ??)

107 - 108 Altered Mafic/Ultramafic (Proterozoic basement)

~ EOH Precollar ~

m. / M. Sus. ↓

HOLE # TNA 001

ReLODE Limited Diamond Drill Logging Sheet

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
108/ 1.53	107.80	109.0	50%	ANT-AMY	Start of NQ2 core / Weakly weathered, coarse grained chlorite-filled amygdules in Andesitic Lava, Alteration of vfg hematite (Hm) as 0.1-0.5 mm grains in matrix, trace epidote as 0.1-0.5 mm disseminated grains
109/ 3.07					
110/ 0.05					
111/ 8.71					Top of Flow Unit eroded off.
112/ 0.9					
113/ 8.47	109.0	110.0	100	ANT-(AMY)	Fresh, medium-grained chlorite-filled amygdules, gradational to above unit
114/ 8.12					
115/ 10.4	110.0	112.85	100	ANT	Fresh f.g. andesite with 5% epidote dissemination alteration of matrix.
116/ 10.5					
117/ 8.14					
118/ 0.01	112.85	113.0	100	HMVN-EPI	Single 2-3cm wide Hematite vein @ 30° to L.C.A., with halo alteration of 20% disseminated epidote
119/ 0.18					
120/ 0.65					
121/ 0.40	113.00	118.30	100	ANT	Fresh, F.g. andesite with v.f.g. matrix epidote and trace vfg Hm
122/ 0.01					
123/ 0.87	118.30 m	123.50	100	ANT-AMY	FLOW TOP, marked by texture change to coarse grained 10-20% amygdules
124/ 0.18				-HM	filled with yellow green epidote and infrequent white calcite
125/ 1.99					Most marked feature is pervasive, very fine grained matrix Hematite
126/ 4.84					-like Gawler Range Volcanics / Petrography sample 121.93-122.06
127/ 1.04					
128/ 1.93	123.50	128.0	80	ANT-AMY	very gradational change to weakly, then more strongly weathered e.g.
129/ 1.75					amygdaloidal andesite. Amygdules filled with chlorite, and andesite
130/ 1.97					matrix Trace to 1% vfg Hm.
131/ 0.01					
132/ 2.01	128.0	134.9	20	ANT-AMY-	Strongly broken and sheared, moderately weathered chloritic e.g.
133/ 1.29				MW	amygdular andesite, 3m. of core lost at 132 to 134.9 m
134/ 0.09					Alteration absent, possibly due to weathering.
135/ 0.67					
136/ 5.96	134.9	143.0	100	ANT-AMY	Fresh, dark grey c.g. chloritic amygdular andesite with minor
137/ 6.88					calcite centres. Alteration in trace Hm, and trace epidote (Epi)
138/ 5.17					
139/ 7.17	143.0	145.0	100	ANT-AMY	Fresh, m.g. chloritic amygdaloidal andesite, with f.g. 1% matrix
140/ 12.70					Hm and matrix Epidote
141/ 4.57					
142/ 17.0	145.0	155.0	100	ANT	Fresh, gradational change to NON-AMYGDALOIDAL andesite as (m.g.)
143/ 18.8					flow base, Alteration is f.g. 1% Epi and trace to 1% Hm.
144/ 16.8					
145/ 17.16	155.0	158.0	100	ANT-(HM)	Fresh, fine grained andesite, with 5% matrix 1mm Hem and 5%
146/ 11.1					matrix dissem. Epidote
147/ 10.9					
148/ 8.16	158.0	164.0	100	ANT	Fresh, fine grained andesite with 5-10% f.g. Epi in matrix, trace Hm
149/ 6.91					

m. / M.Sus.

HOLE #

ReLODE Limited Diamond Drill Logging Sheet

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
150a/ 1.29	164.0	164.3	10%	ACTRK	FLOW TOP - Strongly altered, actinolite rich shear to devteric alt^n
151/ 1.02					plus minor carbonate veins
152/ 1.07					
153/ 6.89	164.3	164.60	100	VC-HM	Fresh, banded F.g. tuff to epiclastic with 1-5 mm wide Hematite
154/ 2.96					laminae, alteration; Base of Flow top brecciation and hyaloclastite
155/ 10.5					-like "sandstone" dykes. Banding @ 80-90°
156/ 12.1					
157/ 10.1	164.60	168.00	100	ANT-AMY	Fresh, pale pinkish vfg Hem alteration to matrix, coarse grained
158/ 7.61				-(HM)	chlorite-filled amygdaloidal andesite. Matrix also has f.g.
159/ 7.39					Epidote disseminations and veinlets, plus rare trace PYRITE
160/ 1.15					
161/ 12.8	168.0	177.0	100	ANT-AMY	Fresh, grey green, coarse grained chlorite filled amygdaloidal
162/ 16.8					andesite. Alteration of amygdules / minor pyrite rimming amygdules
163/ 9.88					and calcite core. Matrix of 1-2 mm f.g. epidote disseminated grains
164/ 2.45					but no Hematite.
165/ 2.03					
166/ 2.54	177.0	189.38	100	ANT	Gradational change c.g. amygdaloidal andesite change to fine
167/ 3.25					grained grey andesite with 1% F.g. magnetite and 5% f.g.
168/ 9.51					Epidote.
169/ 17.10					Flow Base
170/ 16.0					
171/ 23.6					
172/ 23.8					
173/ 18.8					
174/ 18.4					
175/ 7.80					
176/ 14.5					
177/ 5.61					
178/ 6.93					
179/ 8.08					
180/ 14.7					
181/ 8.18					
182/ 14.8					
183/ 20.1					
184/ 18.5					
185/ 17.7					
186/ 16.6					
187/ 11.6					
188/ 19.8					
189/ 12.0					
190/ 0.69					
191/ 0.01					

m. m/sus.↓

HOLE # TNA 001 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
189/10.00	189.38	189.66	100%	ANT_VBX	Pale brn FLOW TOP to flow, andesitic(?) composition with flow top breccia
190/+0.07					and 5% chlorite-filled amygdules
191/+0.09	189.66	189.73	100%	ANT_VBX	Carbonate-(quartz) infill to breccia space, rimmed by chlorite &
192/0.16					weak hematite alteration
193/-0.03					
194/+9.66	189.73	194.0	98%	ANT_AMY	fgAmygdaloidal andesitic lava with pink(hem) K-spar infill, 10% ~~[illegible]~~
195/+13.7					of flow top. Alteration of matrix 5-10% disseminated hematite (0.5-1 mm)
196/0.10					with trace only epidote. Minor chlorite-filled amygdules
197/13.10					
198/10.20	194.0	198.0	100%	ANT_(AMY)	Mg amygdaloidal andesitic lava, with chlorite-filled amygdules,
199/+0.05					no K-spar and increasing disseminated epidote, Alteration of
200/0.00					matrix to 1% dissem. hematite as v.f. grains.
201/0.03					
202/0.64	198.0	201.0	100	ANT	F.g. andesitic lava, lacking amygdules, pervasive weak yellow
203/0.00					green epidote and 1% v.f.g. hematite
204/0.00					
205/0.01	201.0	203.9	100	ANT(HEM)	F.g andesite with no amygdules, gradually increasing matrix 5%
206/0.29					alteration of 1-2 mm red hematite grains, plus 1-5% v.f.g.
207/0.18					yellow green epidote in matrix
208/0.01					
209/0.36	203.9	209.9	100	ANT_HEM	F.g. andesite; non-amygdaloidal, matrix hematite 5-10% plus
210/0.68					as 1-2 mm. grains, plus 1-5% yellow green epidote.
211/12.6					
212/0.05	209.9	212.0	100	ANT_(HEM)	F.g. Andesite, non amygdaloidal, vfg matrix hematite grains 5% and
213/2.58					decreasing downwards, plus vfg disseminated epidote in matrix
214/0.00					
215/1.37	212.0	213.35	100	ANT	V.F.g. Andesite, trace carbonate-chlorite filled amygdules close to
					base; Alteration vfg 1% Hematite plus trace only epidote
(189.0 to					
215.0 Has	213.35	214.0	80	ANT	FLOW TOP Brecciated & course grained amygdaloidal ANDESITE
Been Recbne					LAVA Amygdules filled with chlorite, plus thin rim of carbonate
To Check Low					Minor joint @ 60° to L.c.A./Matrix of 1% vfg disseminated Hm
VALUES)					
	214.0	214.5	100	QH BXF _KFS	Abrupt contact, if a bit irregular or pink, weakly Hematitic quartz breccia
					possibly K-spar altered, and grading down to dark green chloritic altered
					matrix
	214.5	217.0	100	GNS_KFS _(HM)	Gradational change to strongly foliated & laminated gneissic metamorphosed
					andesite(?), laminae at 20° to L.c.A./Alternating pink K-feldspar and green
					chloritic altered (moderately) gneissic lava.

258 60-80 Reduced

m. /M. Sus.b

HOLE # TNA 001 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
Redo Mag Sus	217.0	221.20	100	GNS(KFS)	Gradational change to dark green brecciated ?andesite gneiss, with very
189/ 13.10					weak pink to cream K-Feldspar clasts and matrix alteration, with
190/ 0.34					inter-clast of dark green chlorite. Foliation 20° to 10° to L.C.A.
191/ 0.14					
192/ 0.12	221.20	221.80	100	QKFSCLBX	Abrupt change to v.c.g. clasts of quartz breccia (white) 0.5-1cm, weakly
193/ 5.25					milled, set in pink Hem. altered K-Feldspar matrix with minor wispy dark
194/ 7.30					green chlorite veinlets
195/ 9.44					
196/ 11.8	221.80	226.35	100	GNS-(HEM)	Abrupt change back to dark green slightly brecciated Andesitic gneiss
197/ 15.0					with strong foliation 0 to 10° to L.C.A. / Minor but increasing
198/ 10.7					microveinlets of Hem, very late stage
199/ 5.49					
200/ 2.21	226.35	226.50	100	MTKFSBX	Minor pale creamy green matrix-supported breccia with 0.5-2cm
201/ 3.62					K-Feldspar / Contact angles @ 20° to L.C.A.
202/ 0.34					
203/ 1.84	226.50	228.10	100	GNS	Abrupt change back to dark green gneissic altered andesite lavas,
204/ 6.56					laminae very variable from 1mm to 5mm wide, at 10° to L.C.A.
205/ 0.14					Thicker bands are K-Feldspar altered, with weak pink pervasive Hem
206/ 0.07					alteration. Matrix is f.g. & chloritised, plus trace disseminated Hem
207/ 10.60					
208/ 8.74	228.10	229.50	100	MTKFSBX	Abrupt change at 20° to L.C.A., rim altered 2mm garnets, now
209/ 10.30					retrogressed to mosaic biotite - white unknown mineral. Zone of
210/ 8.12					intense alteration, pale pink Hem. altered K-Feldspar - quartz breccia
211/ 11.50					with relict disseminated pink garnets (plus biotite - unknown) alteration
212/ 2.83					General lamination @ 20° to L.C.A.; Late stage cross-cutting
213/ 2.41					specular Hematite veinlets 0.5 to 2cm wide, grains to 0.5mm diameter
214/ 0.18					with cores of white calcite; also trace 0.1mm pyrite as rim to
215/ 0.18					specularite veins. Petrography Sample
216/ 0.07					
217/ 0.01	229.50	233.0	90	GNS	Reversion to slightly broken and jointed, dark green ?andesite-protolith
218/ 0.05					gneiss, with trace 0.1 to 2mm late stage Hem microveinlets
219/ 0.58					and general foliation @ 20° to L.C.A.
220/ 0.40					
221/ 0.05	233.0	233.30	90	MTKFSBX	Change to pale creamy K-Feldspar-Quartz breccia with weak foliation
222/ 0.05					@ 20° to L.C.A. / K-Feldspars to 2cm set in very weakly Hem altered
223/ 0.09					quartz matrix
224/ 0.03					
225/ 0.05	233.30	238.90	100	GNS	(End of Tray only) Reversion to dark green gneissic metamorphosed andesite(?)
226/ 0.51					with pronounced foliation @ 0-10° to L.C.A. / Alteration of 1% Hem as
227/ 1.72					matrix disseminations, plus late stage microveinlets
228/ 0.76					
229/ 0.14					

m./M. Sust

HOLE # TNA 001 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
230 – 0.16	238.90	241.8	100	GNS	Strongly gneissic banding @ 0-10° to L.C.A., mafic protolith, with quartzo-feldspathic laminae 0.1 to 2 cm wide.
231 – 0.16					
232 – 0.09					
233 – 0.01	241.8	242.5	80	AFG	Core angle 45°, Abrupt change to very coarse grained breccia of 1-2 cm quartz grains or fragments set in a pink K-feldspar matrix. Looks more like a pegmatoidal GRANITE now.
234 – 0.01					
235 – 0.86					
236 – 0.01	~~242.5~~				
237 – 0.20	242.5	246.76	80	GNS	Sharp 10° contact, subparallel to gneissic banding of mafic protolith, banding varies from 0° to 10°, with weak pervasive Hem. alteration and microveinlets swarms
238 – 0.43					
239 – 0.18					
240 – 1.88					
241 – 1.29	246.76	250.0	90	AMP	Gradational change to m.g. mafic AMPHIBOLITE, no-fabric with very weak Hem. alteration, and strong shear zone 249.8 – 250, broken core and gneissic fabric. Thus essentially the same lithotype as gneiss protolith
242 – 0.25					
243 – 0.05					
244 – 0.01					
245 – 0.29					
246 – 0.29	250.0	253.0	50	GNS	Strongly jointed and chlorite-coated breaks, with strong gneissic fabric, ex mafic protolith
~~247~~ – 0.21					
~~248~~ – 0.80					
249 – 0.45	253.0	253.30	20	AFG	Pale pink v.c.g. K-Feldspar-rich pegmatoidal GRANITE, with sheared, broken contacts
250 – 0.47					
251 – 0.30					
252 – 0.01	253.30	254.0	0	FLTZ	Strong shear zone, with extensive chlorite-coated slickensided joints and shear planes, @ 0-10° to L.C.A.
253 – 0.00					
254 – 2.98					
255 – 0.00	254.0	265.70	20	GNS	Moderately jointed and sheared gneissic fabric to mafic protolith at 0-10° to L.C.A.
256 – 0.21					
257 – 1.90					
258 – 0.36	265.70	265.90	10	AFG	Contact 20°, chlorite slickensided shear, change to pale green, ie. No Hematite staining, v.c.g. pegmatoidal granite
259 – 0.62					
260 – 0.49					
261 – 0.00	265.90	268.50	20	AMP	Sharp contact, change back to dark green m.g. amphibolite wit weak pervasive Hematite staining and micro veinlets
262 – 0.67					
263 – 1.84					
264 – 1.04	268.50	269.15	20	AFG	Sharp contact @ 20° to L.C.A., change back to v.c.g. weakly pink pegmatoidal granite
265 – 0.01					
266 – 0.01					
267 – 0.01	269.15	269.55	10	GNS	Sharp contact @ 20° to L.C.A., back to highly broken mafic gneiss
268 – 0.20					
269 – 0.05	269.55	270.10	100	AFG	Sharp contact @ 20° to L.C.A, back to v.c.g. pink pegmatoidal GRANITE
270 – 0.10					
271 – 0.18					

m. / M. Sost

HOLE # TNA001

ReLODE Limited Diamond Drill Logging Sheet

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
272 / 0.14	270.10	270.93	90	GNS	Hybrid zone to strong gneiss after mafic protolith, plus variable granitoid lit-par-lit replacement.
273 / 0.36					
274 / 0.25					
275 / 2.34	270.93	277.73	90	AMP	Dark green m.g. AMPHIBOLITE, essentially equigranular fabric with trace pyrite and weak biotite retrogressive alteration. Strong shear zone to jointed core 276.0 to 276.90 m.
276 / 0.10					
277 / 0.01					
278 / 0.00					
279 0.03	277.73	279.50	90	AFG	Sharp change @ 20° to L.C.A. to dominantly v.c.g. pale pink pegmatoidal GRANITE
280 / 0.01					
281 / 0.00					
282 / 0.07	279.50	284.87	100	GNS	Gradational change back to strong gneissic fabric, mafic protolith with minor pale grey-green v.c.g. K-Feldspar GRANITE
283 / 0.03					
284 / 0.03					
285 / 0.03	284.87	286.25	90	AFG	Broken contact, change back to pink v.c.g. K-Feldspar GRANITE extensively jointed.
286 / 0.16					
287 / 0.87					
288 / 0.36	286.25	291.15	100	AMP_BIO	Sharp, broken contact @ 60° to L.C.A. Reversion to dark green to grey, strongly BIOTITE retrogressed AMPHIBOLITE with trace vfg matrix Hem. alteration
289 / 0.28					
290 / 0.00					
291 / 0.09					
292 / 0.03	291.15	292.55	100	AFG	Sharp 10-20° to L.C.A. contact, reversion to medium pink, very coarse grained GRANITE
293 / 0.09					
294 / 0.16					
295 / 0.14	292.55	295.65	100	AMP_BIO	Sharp contact, change back to dark grey, strongly biotitic AMPHIBOLITE, but also close to andesite in composition (?)
296 / 0.69					
297 / 0.69					
298 / 0.84	295.65	299.70	100	AMP_BIO	Continued AMPHIBOLITE, last run of tray.
299 / 0.29					
300 / 0.05	299.70	300.33	100	AFG	Sharp contact @ 20° to L.C.A., to very coarse grained pink pegmatoidal granite, 1-2 cm subrounded quartz grains in a pink K-Feldspar crystalline matrix. Weak foliation to gneissic texture
301 / 0.69					
302 / 0.20					
303 / 0.01					
304 / 11.8					
305 / 1.62	300.33	301.0	100	AFG	Hybrid Granite veins in amphibolite
306 / 1.99					
307 / 2.19	301.0	308.0	100	AMP	Dark green, variably gneissic to barely foliated fabric to m.g. AMPHIBOLITE, plus minor biotite retrogressions. Minor, irregular late stage carbonate veinlets with trace hematite rims
308 / 0.07					
309 / 0.14					
310 / 0.38					
311 / 0.27					
312 / 0.10					
313 / 0.03					

m. / M. Sus.↓

HOLE # TNA 001 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
314/ 1.04	308.0	314.45	95	AMP_VEBX	Moderately foliated dark green AMPHIBOLITE with irregular vcg granite veins and late stage ? colloform laminated quartz veinlets, with curious acicular hematite meshwork ? white carbonate needles and a weak pervasive hematite alteration peripheral to veins. Check for Au. Foliation at 20° to L.C.A
315/ 1.97					
316/ 0.05					
317/ 1.53					
318/ 0.10					
319/ 2.08					
320/ 0.12	314.45	319.0	100	AMP	Sharp change back to dark green, m.g. AMPHIBOLITE with 20% to L.C.A. weak foliation
321/ 1.29					
322/ 2.08					
323/ 0.10	319.0	320.0	100	AMP_VEBX	Weak granite veining at 20° to L.C.A. and weak pervasive hematite alteration of matrix.
324/ 0.05					
325/ 0.01					
326/ 0.18	320.0	322.55	100	AMP	Dark green, m.g. AMPHIBOLITE with irregular quartz veinlets near lower contact.
327/ 0.10					
328/ 0.09					
329/ 0.14	322.55	328.0	100	AFG	Sharp but wavy contact, change to dark pink very coarse grained pegmatoidal granite. Foliation ORIENTATION at 326.95 successful; The 20° angle to L.C.A. is probably dipping at ~70° to the W.S.W. although the hole dip is -88-9° to SSE. Worth slabbing along axi line.
330/ 0.27					
	328.0	330.0 E.O.H.	100	AMP_AFG_ (HEM_CAL)	Sharp contact with dark green m.g. AMPHIBOLITE which has interesting late stage colloform to laminated veins of white quartz, green acicular tremolite, f.g. actinolite(?) and curious acicular white ? carbonate plus hematite needles set in white quartz. Worth a petrography sample. Sample of GRANITE is best from 327.40 - 327.56 m Sample of AMPHIBOLITE taken from 320.92 - 321.0 Sample of 20% HEMATITE ALTERATION OF ANDESITE FLOW BASE, to be chosen when Analytical Samples Taken (Between 204 - 210 m) 206.90 - 207.0 m highest Hem Percent

FRANKY

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

	HOLE # TNA001	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
		P262511	118.3	119.0									
		512	119.0	120.0									
		513	120.0	121.0									
		514	121.0	121.93									
		515	121.93	123.0									
		516	123.0	123.5									
		P262517	123.5	124.0									
		P262 518	163.0	164.0									
		519	164.0	164.3									
		520	164.3	164.6									
		521	164.6	165.0									
		522	165.0	166.0									
		523	166.0	167.0									
		P262 524	167.0	168.0									
1	PRIORITY	P262525	189.0	190.0									
2	PRIORITY	526	190.0	191.0									
3	PRIORITY	527	191.0	192.0									
4	PRIORITY	528	192.0	193.0									
5	PRIORITY	529	193.0	194.0									
6	PRIORITY	530	194.0	195.0									
7	PRIORITY	531	195.0	196.0									
8	PRIORITY	532	196.0	197.0									
9	PRIORITY	533	197.0	198.0									
10	PRIORITY	534	198.0	199.0									
11	PRIORITY	535	199.0	200.0									
12	PRIORITY	536	200.0	201.0									
13	PRIORITY	537	201.0	202.0									
14	PRIORITY	538	202.0	203.0									
15	PRIORITY	539	203.0	204.0									
16	PRIORITY	540	204.0	205.0									
17	PRIORITY	541	205.0	206.0									
18	PRIORITY	542	206.0	207.0									
19	PRIORITY	543	207.0	208.0									
20	PRIORITY	544	208.0	209.0									
21	PRIORITY	545	209.0	210.0									
22	PRIORITY	546	210.0	211.0									
23	PRIORITY	547	211.0	212.0									
24	PRIORITY	548	212.0	212.9									
25	PRIORITY	P262 549	212.9	213.35									

ReLODE Limited Assay Data Sheet

PROJECT 00 DNADATTA

	HOLE #TNA001	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
26	PRIORITY	P262550	213.35	214.0									
27	PRIORITY	551	214.0	215.0									
28	PRIORITY	552	215.0	216.0									
29	PRIORITY	553	216.0	217.0									
30	PRIORITY	554	217.0	218.0									
31	PRIORITY	555	218.0	219.0									
32	PRIORITY	P262 556	219.0	220.0									

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE #	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
TNA 00 1	P262557	220.0	221.20									
	558	221.20	221.80									
	559	221.80	222.45									
	560	222.45	223.0									
	561	223.0	224.0									
	562	224.0	225.0									
	563	225.0	226.0									
	564	226.0	226.35									
	565	226.35	226.52									
	566	226.52	227.0									
	567	227.0	228.1									
	568	228.1	229.0									
	569	229.0	229.5									
	570	229.5	230.0									
	571	230.0	231.0									
	572	231.0	232.0									
	573	232.0	233.0									
	574	233.0	233.3									
	575	233.3	234.0									
	576	234.0	235.0									
	577	235.0	236.0									
	578	236.0	237.0									
	579	237.0	238.0									
	580	238.0	239.0									
	581	239.0	240.0									
	582	240.0	241.0									
	583	241.0	241.8									
	584	241.8	242.5									
	585	242.5	243.0									
	586	243.0	244.0									
	P262587	244.0	245.0									
	~~											
	P262588	250.0	251.0									
	589	251.0	251.73									
	590	251.73	252.35									
	591	252.35	253.0									
	592	253.0	253.3									
	593	265.0	265.7									
	594	265.7	266.2									
	595	266.2	267.0									
	P262596	267.0	268.0									

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE #	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
TNA 001	P262 597	268·0	268·5									
	598	268·5	269·15									
	P262 599	269·15	269·90									
	~~number~~											
	P262 600	272·35	273·0									
	601	273·0	274·0									
	602	274·0	275·0									
	603	275·0	276·0									
	604	276·0	277·0									
	605	277·0	277·73									
	606	277·73	278·42									
	607	278·42	279·50									
	608	279·50	280·0									
	609	280·0	281·0									
	610	281·0	282·0									
	611	282·0	283·0									
	612	283·0	284·0									
	613	284·0	284·87									
	614	284·87	285·5									
	615	285·5	286·25									
	616	286·25	287·2									
	617	287·2	288·0									
	618	288·0	289·0									
	619	289·0	290·0									
	620	290·0	291·15									
	621	291·15	292·0									
	622	292·0	292·55									
	623	292·55	293·0									
	P262624	293·0	294·0									
	P262625	308·0	309·0									
	626	309·0	310·0									
	627	310·0	311·0									
	628	311·0	312·0									
	629	312·0	313·0									
	630	313·0	313·52									
	631	313·52	314·0									
	P262632	314·0	314·45									
	P262633	319·0	320·0									

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE #	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE
TNA001	P262634	322.0	322.55		
	635	322.55	323.0		
	636	323.0	324.0		
	637	324.0	325.0		
	638	325.0	326.0		
	639	326.0	326.9		
	640	326.9	328.0		
	641	328.0	329.0		
	P262642	329.0	330.0		
TOTAL	32 PRIORITY 1				
	100 LOWER PRIORITY				
	132 SAMPLES				

ReLODE Limited Diamond Drill Logging Sheet

Project	OODNADATTA
Location	TOONDINA DAM
Date	7th AUGUST 2002
Finished	2nd SEPTEMBER, 2002

Drill Co.	NITSCHKE
Drill Type	JND 950
Logged by	G. KELLY

Grid	GDA
Northing	6,903,323·0
Easting	564,578·9

Dip	-90°
Azimuth	
RL	+72·4

HOLE #	TNA 002
EOH (m)	
Water Table (m)	
Precoller Depth (m)	
BOCO Depth (m)	
BOPO Depth (m)	

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
					Actual drilling of precollar started at 10-30 AM, drag bit chips to 36m over 4 hours, minor hardband @ 28m. Rest of day cementing off to surface. Samples laid out in 2 metre intervals.
					Soil profile 0 - 0.4m, medium brown calcareous loam, azonal. Sharp horizontal interface, change to pale green, moderately weathered horizontally bedded / laminated BULLDOG SHALE
	0	8	0	SHLE	Pale green, weakly weathered Bulldog Shale, plus trace gypsum veinlets
	8	16	50	SLST	Sharp change to FRESH, Dark Grey weakly laminated siltsone as Bulldog Shale
	16	18	100	SLST_CAL	Hard drilling zone in siltstone due to trace carbonate as veinlets and more pervasive matrix cementation (acid reactive)
	18	36	100	SLST	Moderately hard, dark grey siltstone, no carbonate.
					End of 8" Precollar. Started Mud Rolling at 3PM - finally. on 8/8/02
	36	42	100	SHLE	Dark grey to black soft fissile Shale
	42	61	10	SHLE	Gradational change to medium greenish grey soft fissile shale, very incompetent claystone really.
	61	62			Shale → BULLDOG abruptly changes to clean f.g. white sandstone, grains are matrix supported in vfg white silica. Start of
	62	64			Medium brown, not as well sorted quartzitic sandstone, with minor clean quartz grits 5%

HOLE # TNA002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
9th August	64	68	100	OOL	Dark grey, peculiar oolitic sandstone, ooids 1-2 mm, very round plus trace rounded quartz grains, set in matrix-support siliceous vfg groundmass. Equivalent to 62-66 m in TNA001, (calla RL +2m)
	68	70	90	SOST	white to v. pale grey well sorted sandstone, very clean.
	70	82	10	SOST	Pale creamy grey, incompetent dirty silty sandstone to sand, plus occasional, thin hard bands of white well sorted quartzose sandstone, with rare angular grits.
	82	84	1	SED	Coarse, uncemented subangular quartz grains to 4 mm. diameter plus occasional silty bands. PROBABLY A GOOD AQUIFER, but barite muds are holding any water flow up.
	84	86	1	SOST	Hybrid pale grey, vf.g. quartzose sandstone plus minor grey siltstone and uncemented coarse quartz grains
	86	112	1	SOST	Pale brown, uncemented silty but subangular quartz grains to 4 mm diameter, plus minor pale grey silty bands. Continuing good potential aquifer high concentration of coarse grained SANDS
	112	114	1	RSL	Finished 9 PM. / Hybrid loose c.g. quartz sands and pale green saprolite clays after basement; REFUSAL
					Saturday 10th spent cementing.
					Sunday 11th drilling out heavy muds
					Core recovered from 113.82 m. at 5 PM.

m./M. Sus.↓

HOLE # TNA 002 | ReLODE Limited Diamond Drill Logging Sheet |

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
113m/ 0.67	113.82	119.75	99	ANT	Very weakly weathered v.c.g. chlorite-filled amygdules, andesite
114/ 0.23	S.O.C.				flow top, contact obscured but close with weak 1% hematite
115/ 0.53					alteration. General alteration trace to 1% 0.1-0.5 mm
116/ 1.33					disseminated hematite, plus 1-2 cm yellow green epidote clots
117/ 0.23					
118/ 0.96	119.75	124.0	100	ANT_(HEM)	Decreasing chlorite-calcite centres-filled amygdules with
119/ 1.73					increasing Hematite at 0.5-2 mm dissemination, up to 15%
120/ 0.80				*	PETROGRAPHIC SAMPLE at PEAK of HEMATITE ALTERATION/ 123.75-123.85m *
121/ 1.81	124.0	137.9	50	ANT_HEM	Rapidly increasing Hematite as 0.5-2 mm diameter disseminated
122/ 0.54					grains related to area of "broken core" an old plumbing system.
123/ 0.03					Basically amygdule-deficient centre of andesite flow.
124/ 1.02					
125/ 4.35					Strong jointing and weak carbonate network veining
126/ 0.71					Joints coated with 2-5 mm thick chlorite, angles to core generally
127/ 1.40					60° to 30° to L.C.A. Strongest broken core (RQD = 0) from
128/ 2.32					133 to 134.8 m
129/ 2.47					
130/ 1.86	137.0	138.60	90	ANT_(HEM)	Gradually decreasing disseminated 0.1-0.2 mm Hematite towards
131/ 0.64					base of andesite flow; minor irregular 2-5 cm wide veins of
132/ 0.07					calcite on basal contact
133/ 0.07					
134/ 0.82	138.60	140.0	90	ANT_AMY	Flow Top, irregular but close to 90° to L.C.A. Chilled andesite
135/ 2.81					flow is weakly flow-top brecciated to 139, with stronger
136/ 2.92					v.f.g. purple matrix pervasive Hematite alteration.
137/ 0.01					Appearance of chlorite-epidote-calcite centre filled
138/ 0.16					amygdules
139/ 0.01					
140/ 1.00	140.0	154.0	90	ANT_(AM)	Fine grained, weakly hematitic (5%) m.g. amygdaloidal andesite
141/ 2.39					with irregular, anastomosing calcite veinlets 1mm to 2 cm wide
142/ 15.30	*checked x3				cutting core at low, variable angles. Hematite decreasing
143/ 5.14					
144/ 5.23	154.0	160.0	100	ANT	Gradational change to non-amygdaloidal, very weakly Hematite-
145/ 4.79					altered andesite flow base, fg to m.grained. Hematite
146/ 2.45					weak 1%, and 1-5% disseminated epidote in the matrix.
147/ 2.28					
148/ 3.69	160.0	165.3	100	ANT	Fine grained grey, andesite with trace to 1% Hematite alteration
149/ 3.25					of matrix. One zone 163.3 to 163.5 is strongly jointed @ 30°
150/ 4.83					to L.C.A.. Joint coatings of chlorite.
151/ 6.09					
152/ 10.60					
153/ 13.0					
154/ 8.32					

m. /M.Sus.

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
155m / 4.26	165.3	165.6	90	ANT-(HEM)	Flow top clearly defined at 90° to L.C.A., Chilled, purple flow top breccia, with v.f.g. pervasive Hematite alteration.
156 / 4.88					
157 / 6.49					
158 / 8.12	165.6	168.0	100	ANT-AMY	Gradational change to Amygdule-rich upper flow unit to weakly Hematite-altered andesite. Amygdules are epidote-lined, calcite-quartz filled, approximately 1 cm in size.
159 / 11.50					
160 / 18.90					
161 / 19.80					
162 / 9.44	168.0	171.0	100	ANT-(AMY)	Weakly purple-colored trace Hematite matrix alteration to slighly amygdaloidal andesite.
163 / 13.50					
164 / 11.0					
165 / 0.51	171.0	176.5	100	ANT-(AMY)	Pale green, chlorite-filled amygdaloidal f.g. andesite with 1% disseminated Hematite.
166 / 0.05					
167 / 0.01					
168 / 0.27	176.5	180.50	100	ANT	Gradual loss of amygdules, medium green m.g. andesite with trace Hematite in the matrix.
169 / 0.03					
170 / 0.03					
171 / 0.01	180.50	180.64	100	ANT	Strongly chlorite-carbonate altered probable flow top breccia zone to a flow top. Breccia fragments show moderate Hematite alteration, supporting the unit flow top.
172 / 2.03	"				
173 / 3.60					
174 / 6.55					
175 / 4.75	180.64	185.0	100	ANT	Change to darker green, 1-2 cm chloritic amygdule-rich m.g. andesite. Hematite alteration is very weak to absent.
176 / 3.69					
177 / 11.70					
178 / 12.00	185.0	196.76	100	ANT-(AMY)-(PY)	Gradational change to m.g. 0.5-1cm size chlorite-filled amygdules, up to 20% by volume. Hematite alteration is almost totally ABSENT, but disseminated PYRITE is increasing as amygdule-fill mineral up to 5 mm and still in trace amounts overall. (196.16 is core tray end of day only)
179 / 6.03					
180 / 0.49					
181 / 0.56					
182 / 1.37					
183 / 10.40					
184 / 19.20	196.76	205.0	100	ANT-(AMY)	Gradational change to finer grained, 20% 1-4 mm sized chlorite-filled amygdules, with m.g. matrix of altered plagioclase-epidote, but only 1-5% F.g. disseminated Hematite.
185 / 25.2					
186 / 27.50					
187 / 17.50					
188 / 12.60	205.0	213.41	100	ANT	Gradational change to m.g. almost to very finely amygdaloidal chloritic andesite, with trace to 5% vfg disseminated Hematite, plus 1-5% disseminated epidote. Base is weakly to moderately pervasively hematite altered, with irregular epidote-filled amygdules and possible flow base brecciation.
189 / 8.34					
190 / 9.27					
191 / 6.58					
192 / 8.03					
193 / 8.30					
194 / 12.40					
195 / 24.80					
196 / 15.60					

m:/M.Sus.V

HOLE # TNA002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
197/ 13.10	213.41	214.0	90	VC_HBM	Slightly irregular 60-80° contact, change to medium yellow-green
198/ 7.48					f.g. banded epiclastic sediment, with defined quartz-rich laminae
199/ 5.59					1-2 mm wide, weakly Hematite altered along preferential bands
200/ 5.28					which were the quartz-rich layers. Hematite alteration increases
201/ 5.50					gradually, attaining 50% above the basal contact at 214 m.
202/ 6.56					Almost identical to A sediment in TNA001 (from 164.3-164.6 m)
203/ 15.80					but this is not to imply stratigraphic marker horizon, at this stage.
204/ 13.4					Laminae all parallel, and at 80 to 85° to L.C.A.
205/ 5.54					
206/ 9.04	214-0 u	215.0	100	ANT-(HEM)	Brecciated flow top to next andesite flow. Weak pink hematite
207/ 9.05					alteration as a vfg pervasive ground mass colouration. Amygdules
208/ 9.77					are 1-2 cm in size, irregular, with a consistent paragenetic
209/ 5.10					sequence of mineralisation, viz: epidote rim, f.g. crystals -
210/ 6.73					chlorite-retrogressed actinolite needles - pyrite as 0.01-2 mm
211/ 7.66					irregular aggregates - calcite core as f.g. crystal aggregates.
212/ 7.11					Not all minerals are present in any one amygdule. With depth,
213/ 0.78					Hematite microveinlets crosscutting and overprinting this
214/ 0.01					amygdule paragenetic trend are rare. Most Hematite is in the
215/ 16.50					matrix of the surrounding andesite.
216/ 6.58					
217/ 19.3	215.0	223.0	100	ANT-AMY	Similar coarsely amygdaloidal andesite flow with the same
218/ 17.6				-HEM	paragenesis. Matrix andesite is increasingly Hematite-
219/ 24.8					altered, with 0.5-1 mm grains attaining 5-10%. Epidote
220/ 16.8					alteration is f.g. and 1-5%.
221/ 19.3					
222/ 19.1	223.0	229.0	100	ANT-(AMY)	Gradational change to m.g. 1-2 mm chlorite-filled amygdules
223/ 19.1				-(HEM)	with decreasing Hematite content, 1-5% average
224/ 17.7					
225/ 18.7	229.0	232.0	100	ANT	Essentially pale grey-green m.g. chloritic andesite with trace
226/ 21.5					to 1% f.g. Hematite and 1-5% f.g. epidote alteration. Not cut-
227/ 24.0					
228/ 17.5	232.0	233.0	100	ANT-(HEM	Medium grained chloritic amygdaloidal andesite with 1-5% disseminated
229/ 22.4					Hematite; plus and irregular 1-2 cm vein cutting at +5° to -5° to LCA.
230/ 19.2	233.0	237.0	90	ANT-(HEM	Laminated vein filling: plus weak pink Hematite stained quartz, white
231/ 17.9				-QZCBVN	quartz, rim material of chloritic-retrogressed actinolite, trace
232/ 18.0					disseminated pyrite and earliest-rim material, calcite. Matrix to
233/ 28.1					andesite is trace to 1% f.g. disseminated Hematite and 5% Fg. epidote
234/ 26.5					Irregular white quartz-(carbonate) veining once again post dates
235/ 21.1					any matrix disseminated Hematite.
236/ 10.1					
237/ 21.6	237.0	238.47	100	ANT	Fine-grained chilled andesite flow base, with irregular 2-5 cm
238/ 3.67					chloritic amygdules

M./M-Sust

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
239 m / 0.45	238.47	241.0	100	ANT-AMY	Razor-sharp Flow-Top, at 80° to L.C.A., no sediment, but
240 / 0.45	"				concentrations of 1-5 cm chloritic amygdules and a sharp colour
241 / 8.89					change to pale purple, v.f.g pervasive Hematite alteration of
242 / 9.60					a chilled lava top. Amygdules continue at 0.5-5 mm size,
243 / 9.86					in a weak purple Hematite-altered f.g. andesite matrix
244 / 6.84					
245 / 8.32	241.0	255.0	100	ANT (HEM) -AMY-	Gradational change to m.g. chloritic amygdaloidal, weakly SO
246 / 15.2					m.g. andesite with increasing alteration with depth. Alteration
247 / 15.0					is f.g. 5% disseminated epidote, and 5% Hematite
248 / 24.1					
249 / 23.1	255.0	263.6	100	ANT. HEM	Some altered f.g. to m.g. andesite with 10% Hematite as
250 / 16.4					1-2 mm disseminated Hematite, plus 5% disseminated f.g.
251 / 13.4					epidote. * Petrographic sample 259.9-260.0 is at peak *
252 / 9.93					of Hematite alteration. Near 261 to 263.6 the andesite is
253 / 9.68					amygdule-free and increasingly fine grained. Contact is flow-
254 / 8.82					base brecciated with 10 cm of narrow chlorite-filled amygdules
255 / 5.14					
256 / 6.42	263.6	265.43	50	ANT	Hand-lens visible sharp contact at 60° to L.C.A.; change to flow-top
257 / 5.32	"				brecciated flow with unusual spotty, blebby brown Hematite alteration.
258 / 4.68					Core is moderately jointed at highly variable angles 30° to 80°,
259 / 2.69					with a 1-4 mm joint fill of chlorite
260 / 5.34					
261 / 2.74	265.43	265.58	50	MT BX	Faulted contact, chlorite-filled, change to a dark brownish-pink
262 / 8.38					c.g. porphyritic granite? vein; or more likely a recemented tectonic
263 / 20.5					breccia ex granite. Hematite alteration is strong, but is overprinted
264 / 0.58					by minor epidote-chlorite matrix alteration and microveinlet
265 / 0.25					quartz meshwork. Basal contact is also faulted at 80° to L.C.A.
266 / 0.12					
267 / 0.00	265.58	266.62	0	BX	Zone of INTENSELY jointed and faulted core, with chlorite-coatings
268 / 0.43					and a mixed unit of amphibolite and granite breccia.
269 / 1.55					
270 / 0.93	266.62	267.50	10	CL BX	very interesting vcg clast support breccia, originally granitic, with
271 / 0.29					wavy matrix mineralisation of 10% fg HEMATITE plus very
272 / 0.16					important f.g. BIOTITE (Potassic alteration) & Foliation is a bit wavy, *
273 / 0.00					tending from 10° to 30° to L.C.A.
274 / 0.03					
275 / 0.49	267.50	268.85	100	AMP-BIO -HEM	Contact sharp, at 20° to L.C.A., change to fg to m.g. AMPHIBOLITE, with
276 / 0.53					moderate BIOTITE alteration and f.g. disseminated plus late stage
277 / 0.21					microveinlet HEMATITE. A highly altered volcanic protolith
278 / 0.01					
279 / 0.43					
280 / 0.31					

m./m. sus↓

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
281m/0.29	268.85	274.28	99	AFG_HEM	Sharp contact with granite, at 20° to L.C.A.; no real chill zone to intrusive so the basement was fairly hot too. Granite is moderately
282/0.00					
283/0.23					foliated at 20-30° to L.C.A. Texture is very coarsely porphyroidal
284/0.51					strongly pink to brown in colour, with strong Hematite staining
285/0.01					of K-Feldspar. Matrix pyrite is rare but present. Late stage
286/0.25					microveinlet Hematite is almost exactly at 90° to trend of
287/0.00					strong foliation, and crosscutting 0.1-1mm Hematite
288/0.07					veinlets are readily observed being replaced by 0.1-1mm
289/0.05					disseminated pyrite euhedral crystals. That is pyrite is late-
290/0.12					stage stable, probably when the amygdules in the andesite
291/0.07					lavas were overprinted(??). Some apparent quartz-veining
292/0.62					in the foliated granite ["THE TOONDINA DAM GRANITE" T.M.]
293/0.40					is likely to be gneissic quartzo-feldspathic segregation rather
294/0.12					than late stage overprinting. PETROGRAPHIC
295/0.16					SAMPLE TAKEN 270.45-270.67m. (Shows all above features) *
296/0.07					
297/0.14	274.28	276.20	100	AMP_BIO-(HEM)	Abrupt change back, contact @ 10-20° to L.C.A. back to m.g. AMPHIBOLITE
298/0.23					with strong 0.5-1mm biotite alteration. Matrix is weakly
299/0.05					f.g. Hematite altered, but there are late stage, very low angle
*300/0.01					0.5-1mm Hematite veinlets, and at 274.50 one Hematite veinlet
301/0.56					has trace v.f.g. CHALCOPYRITE associated, in a definite Late *
302/0.89					stage mineralising event.
303/0.84					
304/0.23	276.20	277.20	100	AMP_HEM-(PY)	Gradational change to moderately strongly Hematite-stained AMPHIBOLITE
305/0.16					with m.g. biotite ground mass, late stage Hematite ground mass
306/0.23					alteration and latest stage microveinlet Hematite and a
307/0.00					1-5mm PYRITE veinlet at 20° to L.C.A. Irregular veins of the
308/0.47					nearby granite also variably intrude the amphibolite at 0-5° to LCA
309/0.07					
310/0.00	277.20	283.3	0	AFG_HEM	Strongly jointed granite, contact at 20° to L.C.A., joints at 10°, 30° 60°
311/0.05		TRM 28			making it very difficult to drill. A similar veg foliated K-Feldspar
312/0.00					porphyritic granite, with moderate pervasive Hematite, and late
313/0.27					stage 0.01mm veinlets of Hematite at essentially 90° to foliation
314/0.05					From 279.05-279.65, core just skims a sliver of strong biotite-altered
315/1.09					m.g. amphibolite. At 283.3, jointing at contact is severe, with hematite
316/0.58					coated slickensides
317/0.64					
318/0.42	283.3	284.0		AMP_BIO-(HEM)	Sharp 10° angle contact change back to strong biotite-altered m.g. amphibolite
319/0.62		TRM 29			with 1-5% disseminated f.g. hematite.
320/0.03					
321/0.05					
322/0.16					

m./M.Sus.↓

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
323m / 0.01	284.0	284.45	90	AFG	Extremely coarse-grained porphyroidal pink T.D. Granite; large 2-5cm subrounded fractured quartz, late microveinlet hematite and weak hem pervasive coloration, with wispy matrix to 10% strongly hematite-biotite altered. Core contact angles irregular, approximately 30°
324 / 0.21					
325 / 1.84					
326 / 0.82					
327 / 0.18					
328 / 0.09	284.45	284.96	80	AMP.(BIO)	Back to dark green, mg. amphibolite with weak biotite alteration
329 / 0.56					
330 / 0.12	284.90	285.45	50	AFG	Sharp contact at 20° to L.C.A., revert to vcg porphyroidal granite with weak foliation, parallel to weak foliation in amphibolite
331 / 0.78					
332 / 0.34					
333 / 0.21	285.45	286.20	80	AMP.(BIO)	Sharp 30° to L.C.A. contact, back to dark green m.g. amphibolite with moderately strong biotite, and 1-5% wispy groundmass hematite
334 / 0.16					
335 / 0.01					
336 / 0.05					
337 / 0.03	286.20	291.60	0	AFG	Sharp 30° to L.C.A. contact, back to dark pink, extremely jointed at 80°, 60°, 20° to L.C.A. Open space terminated clear quartz grain/crystals - indicating a cavity and heavy water aquifer at 287m. Granite grain size is only c.g., also has a strong foliation at 20° to L.C.A., non porphyroidal, but is quartz-phyric at 1-3 mm pheno diameter.
338 / 0.00					
339 / 15.1	←clusters x 3-5	stringer	mt in GRT		
340 / 0.20					
341 / 0.14					
342 / 0.56					
343 / 13.5	←clusters x 3 -	Stringer mt	in GRT		
344 / 0.07	291.60	292.05	80	AMP.(QZVN)	Sharp contact at 30° to L.C.A.; Change to irregularly & weakly quartz-veined, weakly biotitic amphibolite, with trace only disseminated hematite.
345 / 0.10					
346 / 0.07					
347 / 0.05					
348 / 0.10	292.05	293.10	90	AMP	Dark green, m.g. amphibolite, no hematite alteration
349 / 0.00					
350 / 0.03	293.10	293.80	10	AFG	Irregular hybrid rock of sheared contact amphibolite and c.g. granite
351 / 0.16					
352 / 0.42					
353 / 1.84	293.80	295.30	100	AMP	Sharp upper contact @ 30° to L.C.A. Dark green, moderately biotitic amphibolite, no hematite alteration, but trace, wispy quartz microveinlets.
354 / 2.52					
355 / 0.05					
356 / 0.01					
357 / 1.29	295.30	296.65	0	AFG	Sharp contact at 30° to L.C.A.; pale pink e.g. to v.c.g. weakly foliated pink K-Feldspar granite. Quartz phenocrysts to 2cm set in a e.g. quartz-K-spar granitic matrix. Pink hematite alteration is moderately strong.
358 / 0.25					
359 / 0.07					
360 / 0.10					
361 / 0.23					
362 / 1.40	296.65	299.93	80	AMP.(AFG)	Hybrid unit of irregular, pale greenish cream v.c.g. K-Spar & Quartz.
363 / 0.53					
364 / 0.07					* Petrographic Sample #/ 283.63-283.75 Flow Top/Amygdules/Perv. Hem Andesite

m./M-Sus

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
365m/0.09	299.93	300.94	95	AFG	Gradational change to coarse grained, dark pink foliated granite at 30° to L.C.A, with Quartz phenocrysts to 3cm set in hematite stained K-Feldspar granitic matrix
366/0.05					
367/1.29					
368/1.75					
369/1.33	300.94	302.40	100	AMP	Sharp contact, dark green m.g. amphibolite
370/1.93					
371/3.53	302.40	302.60	90	AFG	Sharp 30° contact, c.g. K-Feldspar rich, pale pink granite
372/0.09					
373/0.07	302.60	305.25	100	AMP	Dark green, mg amphibolite, with 10% granitic veins.
374/0.05					
375/0.00	305.25	306.70	90	AFG	Medium pink, foliated @ 30° to LCA Granite
376/0.14					
377/0.73	306.70	310.44	100	AMP	Sheared contact, dark green, foliated @ 20° to L.C.A. weakly biotitic amphibolite
378/7.64					
379/0.78					
380/3.07	310.44	311.25	90	AFG	Pale greenish green, chilled granite vein with disseminated epidote alteration, no to trace hematite alteration
381/1.02					
382/1.24					
383/0.49	311.25	313.0	0	AMP	Dark green, strongly jointed, and foliated m.g. amphibolite
384/0.27					
385/1.77	313.0	314.25	0	AFG	Sharp, faulted contact, strongly jointed at variable angles, dark pink c.g. porphyritic granite. Veining at irregular angles of quartz - minor epidote.
386/0.56					
387/0.07					
388/2.03					
389/0.09	314.25	314.85	0	AMP	Dark green, f.g. to m.g. amphibolite. Contacts sharp, at 30° LCA
390/0.54					
391/0.60	314.85	315.2	0	AFG	Irregular contacts at 20° to L.C.A., dark pink, foliated at 30° to L.C.A, c.g. porphyritic granite
392/0.49					
393/0.25					
394/0.75	315.20	315.6	10	AMP	Dark green, mg. amphibolite, strong alteration; Biotite close to 315.6
395/0.12					
396/0.14	315.60	320.73	10	AFG	Strongly brecciated contact, at 60° to L.C.A., quartz veined ~~rock~~ in granite, generally strongly jointed dark pink foliated granite, at 30° to L.C.A. Strongish hematite alteration/addition to K. Feldspar
397/2.67					
398/1.00					
399/2.41					
	320.73	321.06	10	AMP. Bio (HEM)	Sharp contact to mg. amphibolite with strong biotite alteration, weak, wispy hematite and 2-5cm white quartz vein. Obviously both contact to 315-320m. Granite are potentially gold mineralised
	321.06	323.40	100	AMP	Dark green, moderately biotitic amphibolite with trace Hematite.

HOLE # TNA002 — ReLODE Limited Diamond Drill Logging Sheet —

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	323.40	324.0	40	AMP_QZVN	Sharp 60° contact, change to pale green epidote altered amphibolite with granitic K-Feldspar set in white vein quartz, associated with jointing
	324.0	328.25	90	AMP	Dark green, m.g. weakly biotitic amphibolite, with trace v.f.g. hematite
	328.25	330.0	10	AFG_EPI	Strongly brecciated and quartz veined contact, @ irregular angle change to strongly epidote altered, patchy remnant pink K-Feldspar in a matrix of epidote, trace to 0.5% f.g. PYRITE, and trace veinlet Hem
	330.0	330.30	50	AMP	Dark green amphibolite, with 30-40° contact angles
	330.30	330.80	100	AFG	Pink v.e.g. K-Feldspar porphyritic granite.
	330.80	334.90	100	AMP	Dark green, strong to moderately biotite-altered m.g. amphibolite with lower contact @ 20° to L.C.A.
	334.90	339.50	50	AFG	Variably pink K-Feldspar to pale green siliceous and less coarse grained porphyritic granite. A quartz vein at 335.2, preserves 2 generations of cleavages, at 20° and -60° to core, close to being at right angles to each other. Equals 2 deformations
	339.50	339.75	20	AMP	Jointed sliver of dark green, m.g. amphibolite with strong biotite alt
	339.75	340.0	80	AFG_QZVN	Granitic quartz vein @ 30° to T.C.A., with rind of v.c.g. granitic phenocrysts and a core of vein quartz.
	340.0	342.3	95	AMP	30° Contact change to m.g. dark green, strongly biotitic amphibolite
	342.3	348.0	20	AFG	Strongly jointed at 60°, 30° & 80° to L.C.A variably but moderately strong pink colour to K-Feldspar; strong low angle 20° foliation in v.c.g. porphyroidal K-Feldspar granite.
	348.0	349.0	0	AMP	Strongly jointed and foliation plane broken, dark green f.g. to m.g. amphibolite with trace pyrite.
	349.0	350.25	0	AFG	Low angle, 20° to L.C.A., sheared contact, change to v.c.g. dark pink porphyroidal K-Feldspar rich granite, with a 0-5° shear or joint running down the centre of the core
	350.25	351.45	10	AMP	Low angle 20° to L.C.A. sheared contact, dark greene strongly biotitic fg amphibolite

HOLE # TNA002 — ReLODE Limited Diamond Drill Logging Sheet — Page 11 of 12

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	351.45	357.27	10	AFG	Contact 30°, sheared, change to very broken, jointed core at 0°, 10° 20° 60° to L.C.A., dark pink v.c.g. porphyroidal granite with dark pink K-Feldspar (hematitic) and enclaves of amphibolite schlieren
	357.27	358.10	0	AMP	Contact @ 20° to L.C.A., change back to dark green f.g. to m.g. strongly biotitic amphibolite
	358.10	362.08	10	AFG	Strongly jointed, sheared contact @ 20°, strongly broken, sheared v.c.g. dark pink porphyroidal K-Feldspar granite. Also irregular xenoliths & enclaves of m.g. amphibolite schlieren.
	362.08	362.55	100	HEMBIORK	Low angle 10° to L.C.A., change to very interesting strongly HEMATITIC ~50% fg disseminations and strongly biotitic amphibolite protolith. Rare otherwise almost worth petrography.
	362.55	372.55	90	AFG	Dark pink, very coarse grained porphyroidal K-Feldspar granite. Weak foliation at 30-35° to L.C.A. to matrix, with variable biotite matrix altered to epidote veinlets. Large 1-2cm K-Feldspars are stained by vfg hematite.
	372.55	373.0	20	GRT	Strongly sheared contact; medium green, medium green foliated granite, an earlier phase than T.D. Granite. Strong foliation @ 40° to LCA
	373.0	375.7	10	AFG	Irregular contact, fragmented back to v.c.g. porphyroidal pink granite with strong foliation @ 45° to L.C.A., medium pink and dark green chlorite/(sericite) bands, still the T.D. Granite but no late stage hematite veinlets
	375.7	377.0	90	AMP	Faulted contact at 80° to L.C.A.: dark green m.g. amphibolite with weak biotite ad weak epidote alteration, as 1% f.g. disseminations.
	377.0	377.90	5	AFG	Sheared contact @ 30° to L.C.A., plus weak quartz veins (ex-granite) in the overlying amphibolite.
	377.90	379.0	80	AMP	Low angle 20-30° contact, almost gradational, back to hornfels of weakly biotitic amphibolite, to 378.3, then gradational change to v.f.g. mafic - close to a tholeiitic basalt in appearance, with trace v.fg. pyrite and 1% disseminated f.g. hematite. This rock is the protolith (except hematite) to the amphibolite.

HOLE # TNA 002 — ReLODE Limited Diamond Drill Logging Sheet — Page 12 of 12

SAMPLE#	FROM(m)	TO (m)	RQD%	LITHCODE	GEOLOGICAL LOGGING COMMENTS
	379.0	379.40	80	AFG	Medium Pink v.c.g. porphyroidal granite, at irregular but low core angles to L.C.A. Moderate foliation @ 20°
	379.40	382.5	20	AMP	Sheared contact, medium grained, weakly biotite altered amphibolite, but strongly jointed and broken below 381.4 to 382.5. Joints at 0-10° and chlorite-coated slickensides.
	382.5	383.8	50	AFG	Sheared contact @ 30° to L.C.A.; weakly jointed, v.c.g. porphyroidal granite
	383.8	384.3	50	AMP	Sheared contact @ 20° to L.C.A., m.g. dark green amphibolite.
	384.3	385.0	50	AFG	Pale grey, moderate pink c.g. K-Feldspar pheno crysts, strong foliation @ 20° to L.C.A.
	385.0	386.9	5	AMP	Sheared contact, then strongly broken, jointed amphibolite, but no significant chlorite
	386.9	387.9	20	AFG	Strongly jointed, foliated @ 20° to L.C.A., medium pink granite
	387.9	388.4	90	AMP	Faulted contact, f.g. to m.g. dark green basalt to amphibolite.
	388.4	389.34	10	AFG	Strongly jointed and broken hybrid pale pink v.c.g. granite and m.g. amphibolite.
	389.34	399.00	95	AMP	Faulted contact @ 60° to L.C.A.; unusual angle; end of granite; monotonous foliated @ 20° to L.C.A.; with one orientation line at 396.3m.; yielding an α angle of 60°. If the core dips -86° to due South, the foliation dips -80° to NNW. No reliable camera shots possible. Foliation almost developed to a gneissic separation of q-f component and mafic component as 1-5 mm layers.
		E.O.H.			

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE # TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
	P262673	120.0	121.0									
	674	121.0	122.0									
	675	122.0	123.0									
	676	123.0	124.0									
	677	124.0	125.0									
	678	125.0	126.0									
	679	126.0	127.0									
	680	127.0	128.0									
	681	128.0	129.04									
	682	129.04	130.0									
	683	130.0	131.0									
	684	131.0	132.0									
	685	132.0	133.0									
	686	133.0	134.06									
	687	134.06	134.68									
	688	134.68	135.0									
	689	135.0	136.0									
	690	136.0	137.0									
	691	137.0	138.0									
	692	138.0	138.6									
	693	138.6	139.0									
	694	139.0	139.85									
	695	139.85	140.27									
	696	140.27	141.0									
	697	141.0	142.0									
	698	142.0	143.0									
	699	143.0	144.0									
	P262700	144.0	145.0									
	P384001	145.0	146.0									
	2	146.0	147.0									
	3	147.0	148.0									
	4	148.0	149.0									
	P384005	149.0	150.0									

37
33
46
41

87
70
157

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE # TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
	P384 006	150.0	151.0									
	007	151.0	152.0									
	008	152.0	153.0									
	009	153.0	154.0									
	010	154.0	155.0									
	011	155.0	156.0									
	012	156.0	157.0									
	013	157.0	158.0									
	014	158.0	159.0									
	P384 015	159.0	160.0									
	~~											
	P384016	200.0	201.0									
	017	201.0	202.0									
	018	202.0	203.0									
	019	203.0	204.0									
	020	204.0	205.0									
	021	205.0	206.0									
	022	206.0	207.0									
	023	207.0	208.0									
	024	208.0	209.0									
	025	209.0	210.0									
	026	210.0	211.0									
	027	211.0	212.0									
	028	212.0	213.0									
	029	213.0	213.41									
	030	213.41	214.0		vx							
	031	214.0	215.0									
	032	215.0	216.0									
	033	216.0	217.0									
	034	217.0	218.0									
	035	218.0	219.0									
	036	219.0	220.0									
	037	220.0	221.0									
	038	221.0	222.0									
	039	222.0	223.0									
	040	223.0	224.0									
	041	224.0	225.0									
	042	225.0	226.0									
	043	226.0	227.0									
	044	227.0	228.0									
	P384045	228.0	229.0									

ReLODE Limited Assay Data Sheet

PROJECT OONAGATTA

HOLE # TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
	P384046	232.0	233.0									
	047	233.0	234.0									
	048	234.0	235.0									
	049	235.0	236.0									
	050	236.0	237.0									
	051	237.0	238.0									
	052	238.0	238.47									
	053	238.47	239.0									
	054	239.0	240.0									
	055	240.0	241.0									
	056	241.0	242.0									
	057	242.0	243.0									
	058	243.0	244.0									
	059	244.0	245.0									
	060	245.0	246.0									
	061	246.0	247.0									
	062	247.0	248.0									
	063	248.0	249.0									
	064	249.0	250.0									
	065	250.0	251.0									
	066	251.0	252.0									
	067	252.0	253.0									
	068	253.0	254.0									
	069	254.0	255.0									
	070	255.0	256.0									
	071	256.0	257.0									
	072	257.0	258.0									
	073	258.0	259.0									
	074	259.0	260.0									
	075	260.0	261.0									
	076	261.0	262.0									
	077	262.0	262.6									
	078	262.6	263.0									
	079	263.0	264.0									
	080	264.0	265.0									
	081	265.0	265.43									
	082	265.43	265.58									
	083	265.58	266.0									
	084	266.0	266.62									
	085	266.62	267.45									
	P384086	267.45	268.0									

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE # TMD002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE
	P384087	268.0	268.44		
	088	268.44	268.85		
	089	268.85	269.35		
	090	269.35	270.0		
	091	270.0	271.0		
	092	271.0	272.0		
	093	272.0	273.0		
	094	273.0	274.0		
	095	274.0	275.0		
	096	275.0	276.0		
	097	276.0	277.0		
	098	277.0	277.20		
	099	277.2	278.0		
	100	278.0	279.0		
	101	279.0	279.65		
	102	279.65	280.0		
	103	280.0	281.0		
	104	281.0	282.0		
	105	282.0	283.3		
	106	283.3	284.0		
	107	284.0	284.45		
	108	284.45	285.0		
	109	285.0	285.45		
	110	285.45	286.20		
	111	286.20	287.0		
	112	287.0	288.0		
	113	288.0	289.0		
	114	289.0	289.32		
	115	289.32	290.0		
	116	290.0	291.0		
	117	291.0	291.60		
	118	291.60	292.05		
	119	292.05	293.10		
	120	293.10	293.8		
	121	293.8	294.3		
	122	294.3	295.3		
	P384123	295.30	296.04		

ReLODE Limited Assay Data Sheet

PROJECT OODNADATTA

HOLE #TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE
	P384124	296.04	296.65		
	125	296.65	297.0		
	126	297.0	298.0		
	127	298.0	299.0		
	128	299.0	299.93		
	P384129	299.93	300.94	↓	
	↓	300.94	301.93		
	MARKED-UP	301.93	303.0		
	DO NOT	303.0	304.0		
	CUT AT	304.0	305.25		
	PRESENT	305.25	306.0		
		306.0	306.7		
		306.7	307.45		
		307.45	308.0		
		308.0	309.0		
		309.0	310.0		
		310.0	310.44		
		310.44	311.25		
		311.25	312.0		
		312.0	313.0		
		313.0	314.0		
		314.0	314.85		
		314.85	315.6		
		315.6	316.0		
		316.0	317.0		
		317.0	318.0		
		318.0	319.0		
		319.0	320.0		
		320.0	320.73		
		320.73	321.06		
		321.06	322.0		
		322.0	323.0		
		323.0	323.4		
		323.4	324.0		

ReLODE Limited Assay Data Sheet

PROJECT GOODNADATTA

HOLE # TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE							
		324.0	325.0									
		325.0	326.0									
		326.0	327.0									
		327.0	328.25									
		328.25	329.0									
		329.0	330.0									
		330.0	330.4									
		330.4	330.8									
		330.8	331.1									
		331.1	332.0									
		332.0	333.0									
		333.0	334.0									
		334.0	334.9									
		334.90	336.0									
		336.0	337.0									
		337.0	338.0									
		338.0	339.0									
		339.0	339.5									
		339.5	340.0									
		340.0	341.0									
		341.0	341.85									
		341.85	342.3									
		342.3	343.0									
		343.0	343.55									
		343.55	344.0									
		344.0	345.0									
		345.0	346.0									
		346.0	347.0									
		347.0	348.0									
		348.0	348.9									
		348.9	350.25									
		350.25	351.0									
		351.0	351.45									
		351.45	352.0									
		352.0	353.0									

ReLODE Limited Assay Data Sheet

PROJECT GOSNADATTA

HOLE # TNA002	SAMPLE#	FROM(m)	TO (m)	MAGSUS	LITHCODE
		353.0	354.0		
		354.0	355.0		
		355.0	356.0	END PALLET 2	
		356.0	357.0		
		357.0	358.0		
		358.0	359.0		
		359.0	360.0		
		360.0	361.0		
		361.0	362.08		
		362.08	363.0		
		363.0	364.0		
		364.0	365.0		
		365.0	366.0		
		366.0	367.0		
		367.0	368.0		
		368.0	369.0		
		369.0	370.0		
		370.0	371.0		
		371.0	372.0		
		372.0	372.55		
		372.55	373.0		
		373.0	374.0		
		374.0	375.0		
		375.0	375.7		
		375.7	376.14		
		376.14	377.08		
		377.08	377.90		
		377.90	378.3		
		378.3	379.0	379.0	
		379.0	379.4		
		379.4	380.0		
			END		

Appendix 8

Photographic record of drill site, campsite and track rehabilitation
ReLODE Limited



Drillers Camp prior to start of Toondina Dam Drilling



Rehabilitation completed at Toondina Dam drillers camp



Drilling at TNA001



Rehabilitation completed at TNA001

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ANNUAL TECHNICAL REPORT

Exploration Completed on Oodnadatta Project

For the Period 26th April, 2003 to 25th April, 2004

E.L. 2936

Tenement Holder – ReLODE Ltd

A.B.N. 54 093 278 436

Operator and Holding Company - ReLODE Ltd

A.B.N. 54 093 278 436

Author – Bill Clayton

ReLODE Ltd
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Copy 1 **ReLODE Limited Perth**
Copy 2 **PIRSA Adelaide**

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1.0 SUMMARY OF EXPLORATION ACTIVITIES

E.L.158/2936 was granted on the 26th April 2002 to ReLODE Ltd., who managed the tenement since its inception.

Exploration activities for the current period are summarised in the six monthly report for the periods ending 25th October 2003 and 25th April 2004 and included ground magnetic and gravity surveys and interpretation of the geophysical data.

This data is being evaluated to determine a suitable strategy for the next stage of exploration at the Oodnadatta project.

Keywords

South Australia, Proterozoic, Gawler Craton, Gold and Copper, Exploration, Ground Magnetics and Gravity, Petrography.

2.0 INTRODUCTION

The Oodnadatta project was selected as an area with the potential to host Iron-Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The Oodnadatta Project is situated on the northern margin of the Gawler Craton adjacent to the northern tip of the Peake and Denison Inlier. Outcrop is limited to small areas of Proterozoic Bedrock which are surrounded by extensive expanses of Mesozoic sediments that comprise the Great Artesian Basin.

2.1 Tenure Details

Exploration Licence 158/2936 was granted on the 26th April 2002 to ReLODE Limited and comprises an area of 1,655 km^2 (Figure 1). The tenement is managed by ReLODE Limited and following the approval of a renewal of term on 7th May 2004, now expires on 25th April 2005. The annual expenditure commitment is $145,000.

2.2 Location and Access

The Oodnadatta project is situated 80km south of the township of Oodnadatta in central north of South Australia (Figure 2). The area is accessed by the dry weather Oodnadatta to William Creek road and then via station tracks to the work areas.

2.3 Previous Exploration

Previous exploration has been confined to ground based gravity and magnetic surveys in the SE of the project area and sporadic drilling campaigns. Three diamond drillholes were completed to test the Ockenden and Toondina prospects that were interpreted to be coincident gravity/magnetic anomalies. The result of the geophysical programs and subsequent geochemical prospecting and drilling of these prospects is reported in Derriman, (2003).

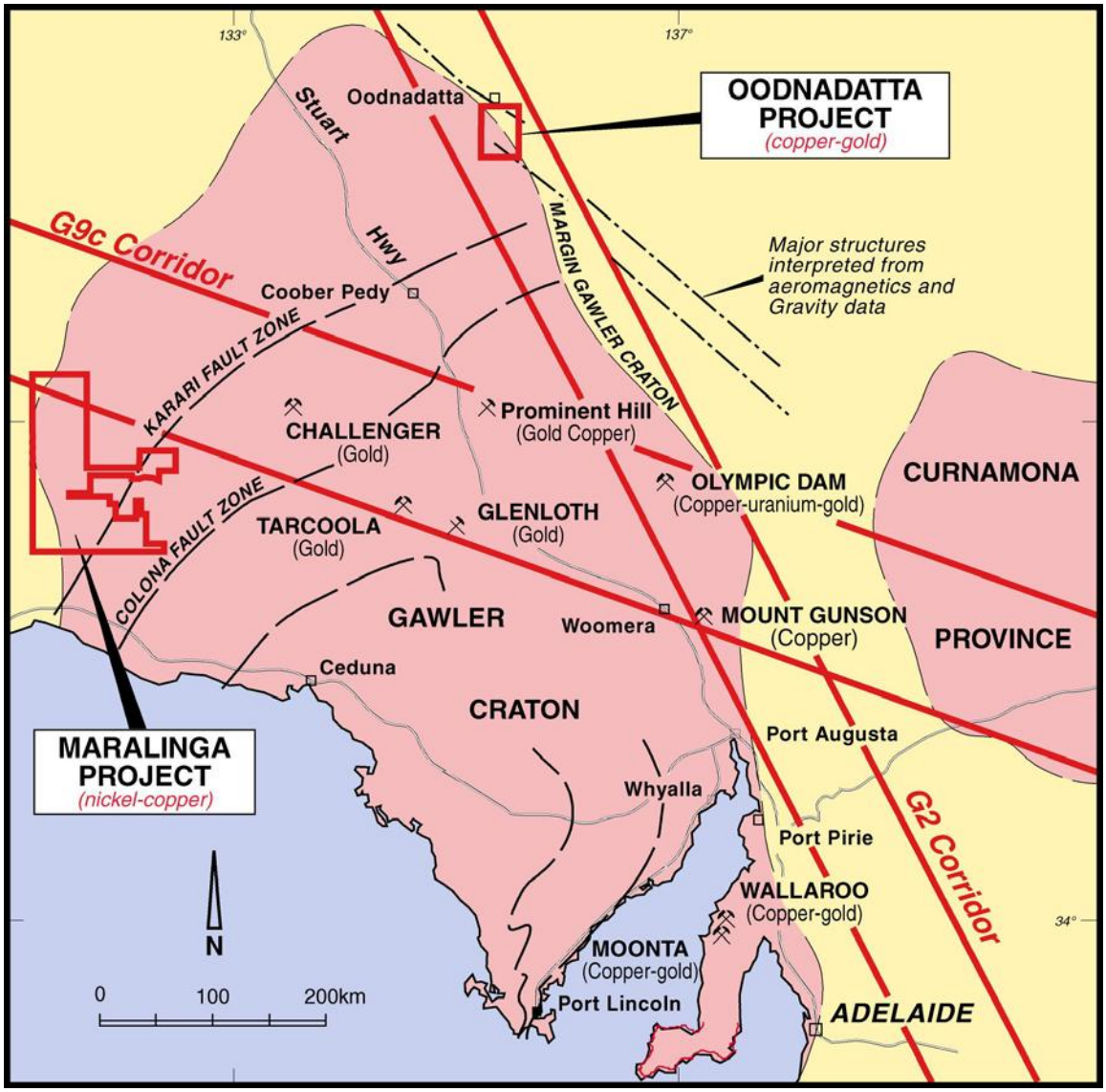


Figure 1 – Gawler Craton Tenement Location Plan

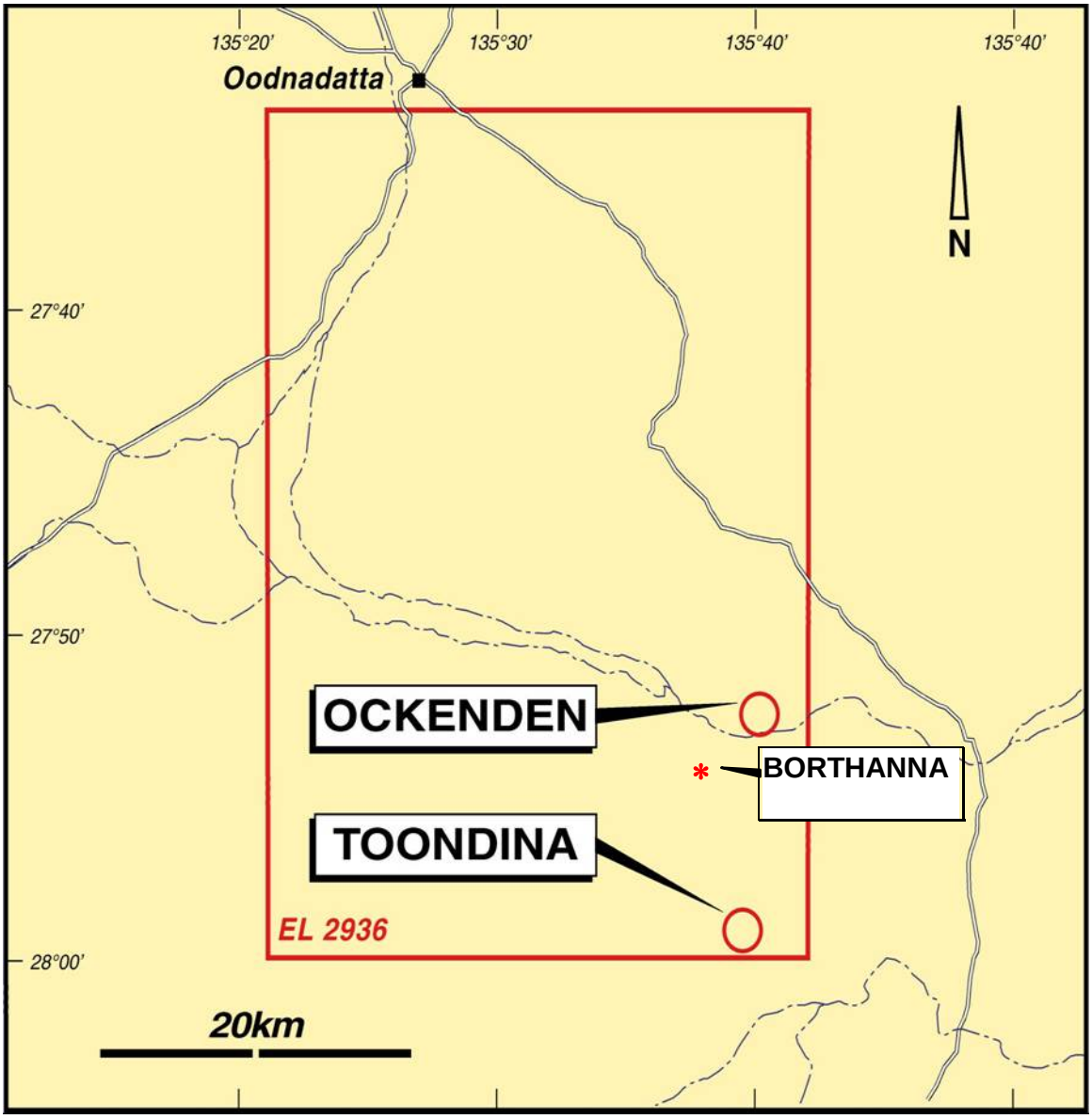


Figure 2 – Oodnadatta Target Location Plan

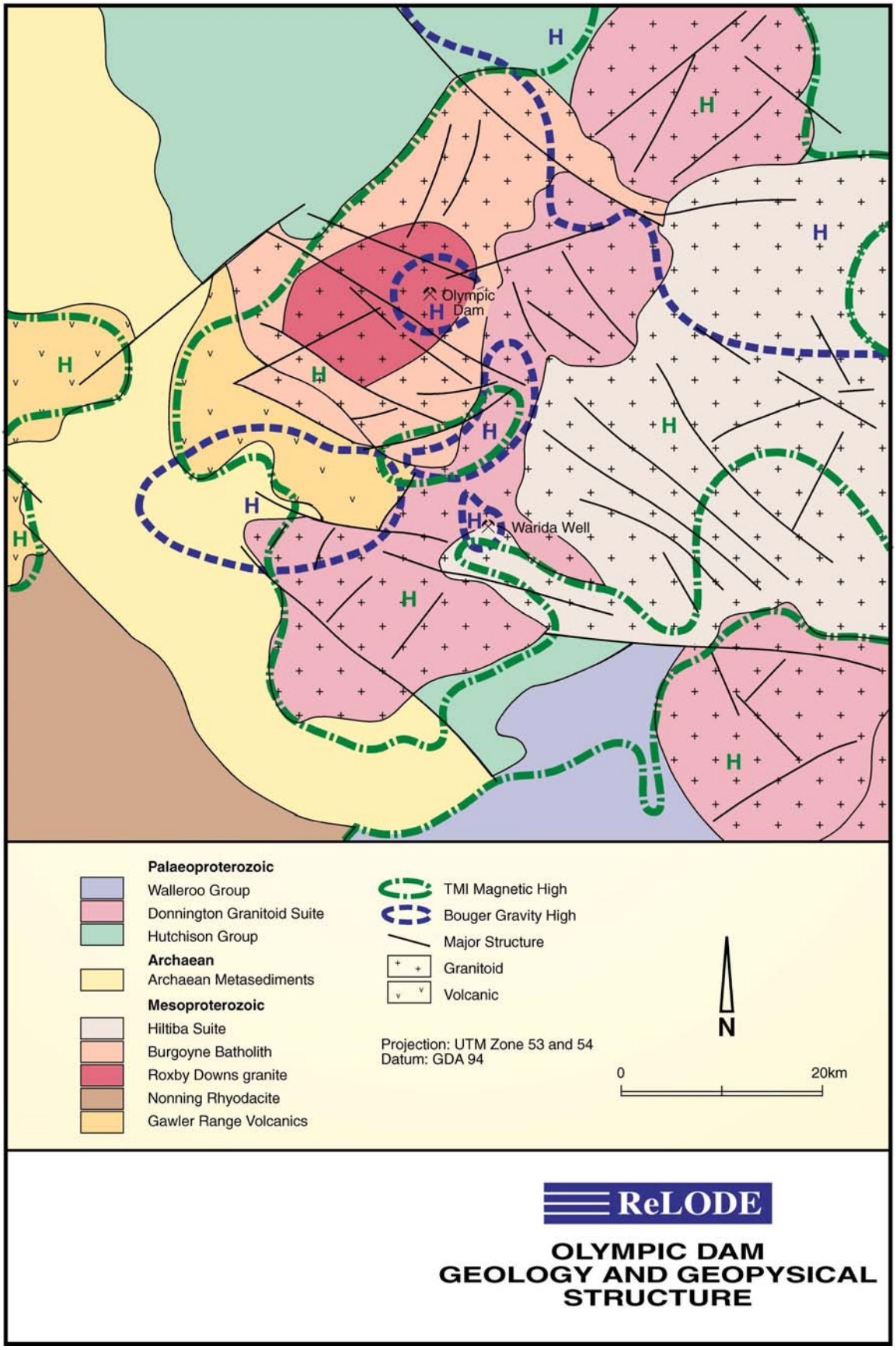


Figure 3 – Olympic Dam Geology and Geophysics

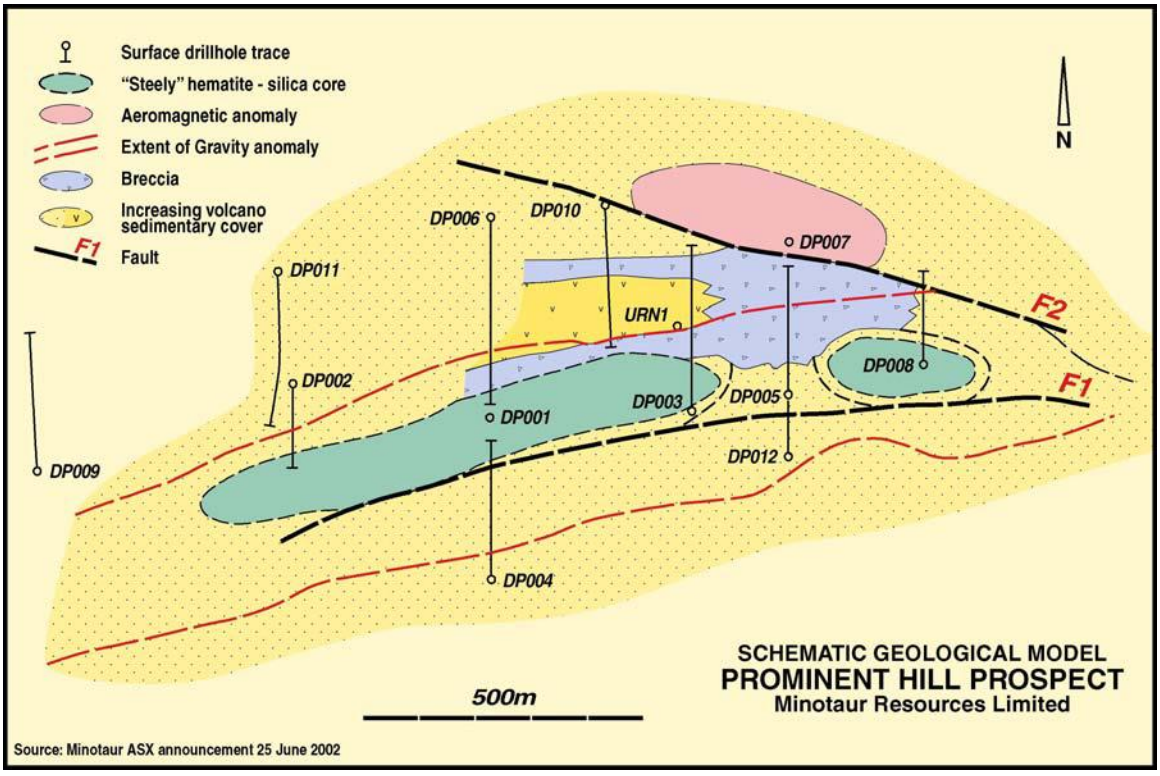


Figure 4 – Schematic Geological Model of Prominent Hill

2.4 Exploration Rationale

The Oodnadatta Project was selected as an area with the potential to host Iron Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill (Figure 3 and 4). The criteria used included proximity to craton scale structures, discrete coincident magnetic and gravity highs (Figure 5 and 6), margin of "magnetically active" domains and regional scale alteration. Lindeman Geophysics Pty Ltd were contracted to assist in the target selection stage and provide ongoing analysis of results generated. Copies of the recent consultant reports are included as Appendix 1.

3.0 GEOLOGY

3.1 Regional Geology

The Oodnadatta Project is situated on the northern margin of the Gawler Craton and adjacent to the northern edge of the Peake and Dennison Inliers. The Peake and Dennison Inliers include outcrops of Palaeoproterozoic metamorphic basement which is intruded by granitic and mafic rocks of Palaeoproterozoic and Mesoproterozoic ages. The bulk of the Peake and Dennison Inliers is made up of a very thick sequence of Neoproterozoic sediments and basal volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks and diapiric structures during the early Palaeoproterozoic Delamerian Orogeny.

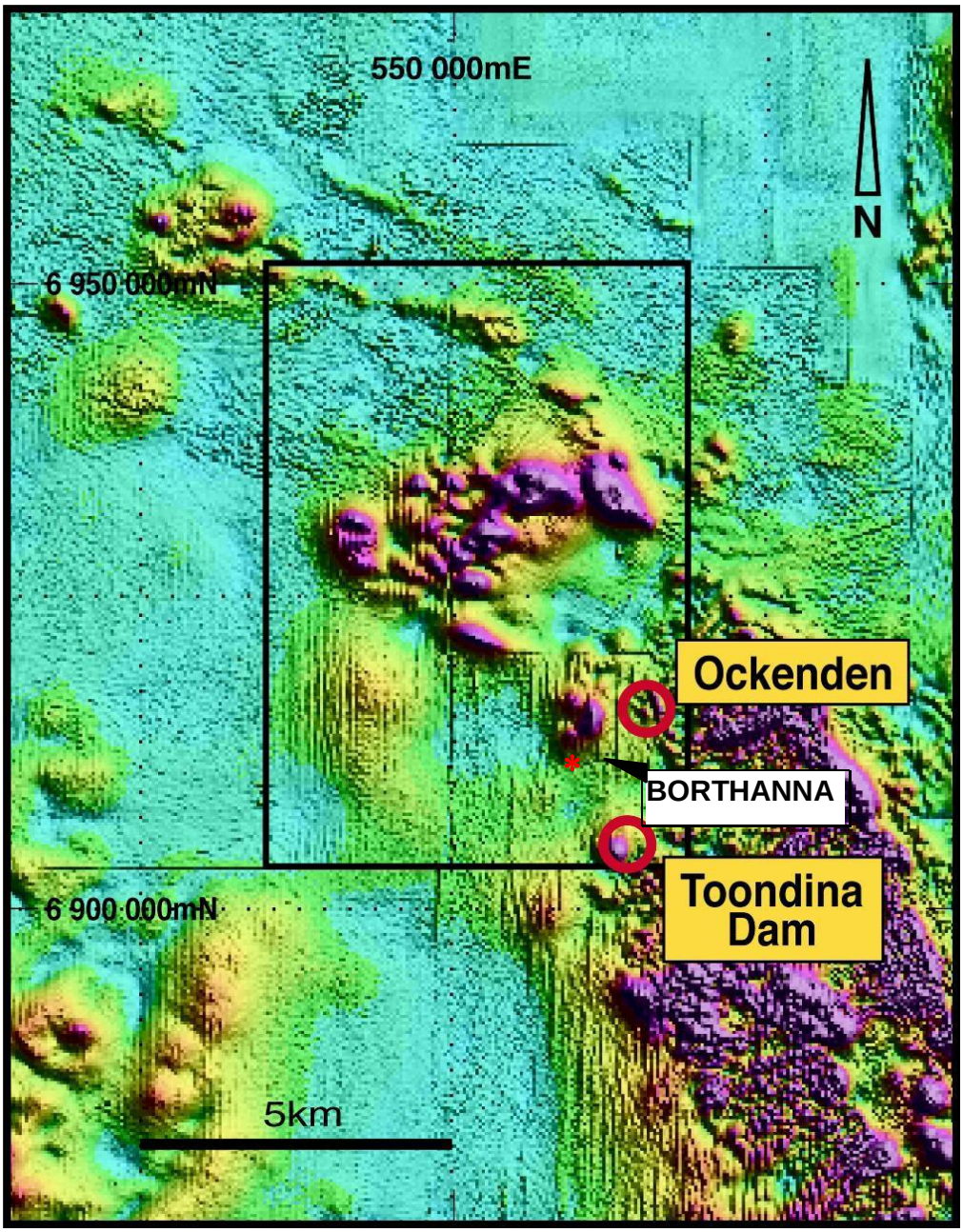


Figure 5 –Oodnadatta Regional Magnetics showing targets

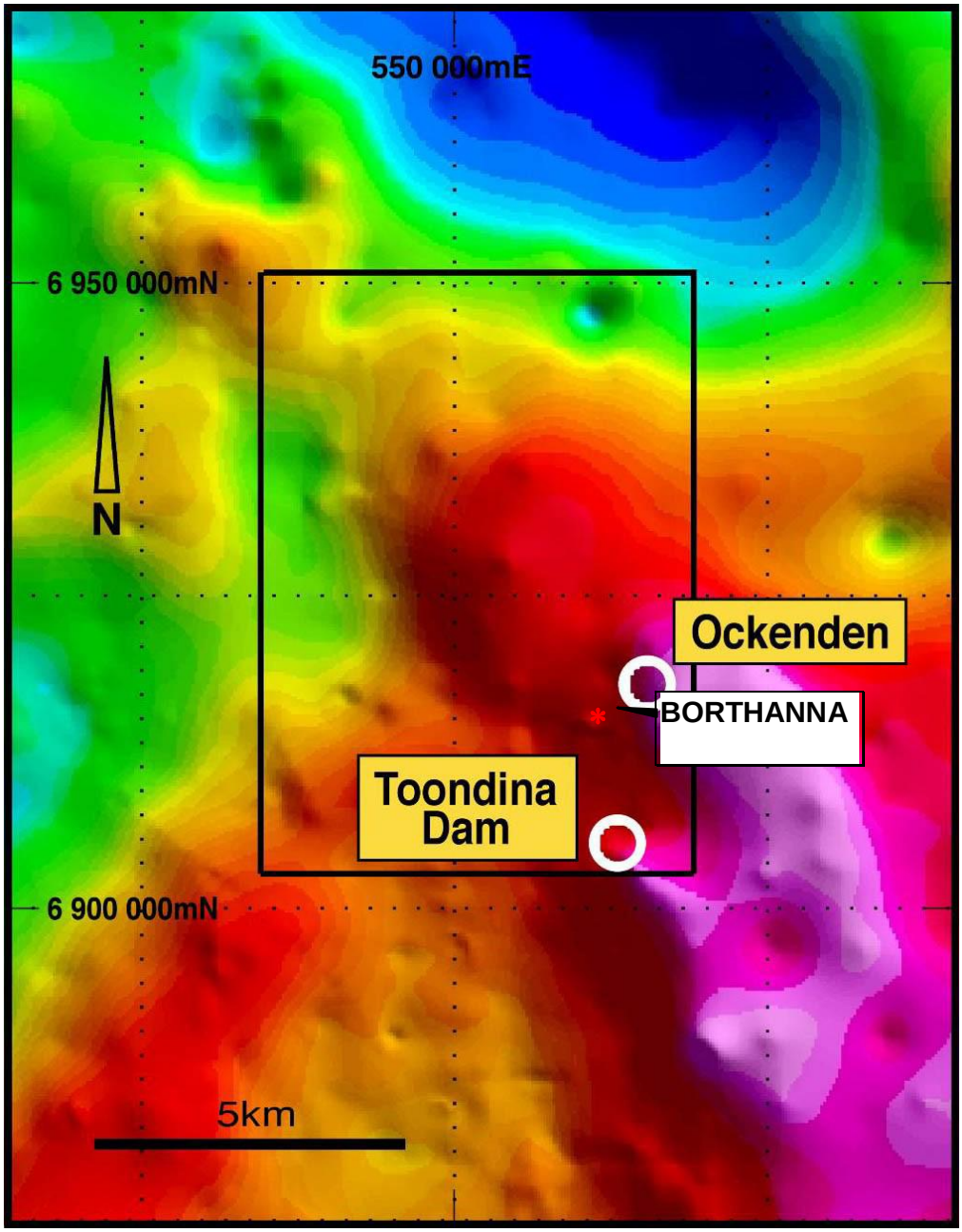


Figure 6 – Oodnadatta Regional Gravity showing targets

3.2 Project Geology

The surface geology is dominated by extensive areas of flat lying Mesozoic Bulldog Shale which is a grey unit with bivalve molluscs and gypcrete partings. In the north of the tenement the Bulldog shale is overlain by remnants of a much more extensive Tertiary land surface comprising pisolitic and ferruginous sand and sandy conglomerate of the Doonbara Formation.

In the SE of the tenement two Neo and Palaeoproterozoic inliers outcrop at Mount Dutton and Algebuckina Hill. At Mount Dutton the Neoproterozoic Curdimurka Subcrop occurs as siltstone, sandstone and dolomite while 15km to the SE at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

The Toondina Dam target is situated approximately 15km SW of Algebuckina Hill while the Ockenden target is situated approximately 6km south of Mount Dutton. Drilling at Toondina Dam and Ockenden has resulted in the following generalised stratigraphic breakdown (Figure 7).

Depth (m)	Formation	Lithologies	Age
0–50	Bulldog Shale	Grey shale with gypcrete	Mesozoic
50–100	Algebuckina Sandstone Cadna-Owie Formation	Sandstone and siltstone	Mesozoic
100–250	Cadlareena Volcanics (equiv.)	Basaltic Andesite	Neoproterozoic
250–?	Unnamed	“Orthoamphibolite” “Granodiorite”	Palaeoproterozoic

The Algebuckina Sandstone and Cadna-Owie Formation are aquifer bearing units of the Great Artesian Basin and at the Ockenden target water pressures to 39psi were recorded.

4.0 GEOPHYSICS

A ground based gravity and magnetic survey was carried out at the Borthanna (Figures 2, 5 and 6) target by Daishsat Pty Ltd and a copy the report is included as Appendix 2. The ground geophysical data was processed by Daishsat Pty Ltd and interpreted and modelled by Lindeman Geophysics Pty Ltd.

4.1 Ground Surveys

A ground magnetic survey was carried out at the Oodnadatta Project over the Borthanna target (Figure 2). The Borthanna survey comprised the collection of 811 gravity readings and 2827 magnetic readings along 300m spaced E-W lines. The gravity survey used a Scintrex CG-3M digital gravity meter and readings were taken every 60m. The magnetic survey used a Gem Systems GSM-19 magnetometer (base station) and Geometrics G856 (field unit), readings were collected every 20m. The gravity data was reduced using standard reductions on the ISOGAL84 gravity network and GPS data was reduced to MGA coordinates with levels as metres above the Australian Height Datum. A full report for both surveys is included as Appendix 2; digital data is included as Appendix 3. Part of the planned survey, north of the Neales River, was abandoned as it was impossible to access that area due to flooded creeks and washouts.

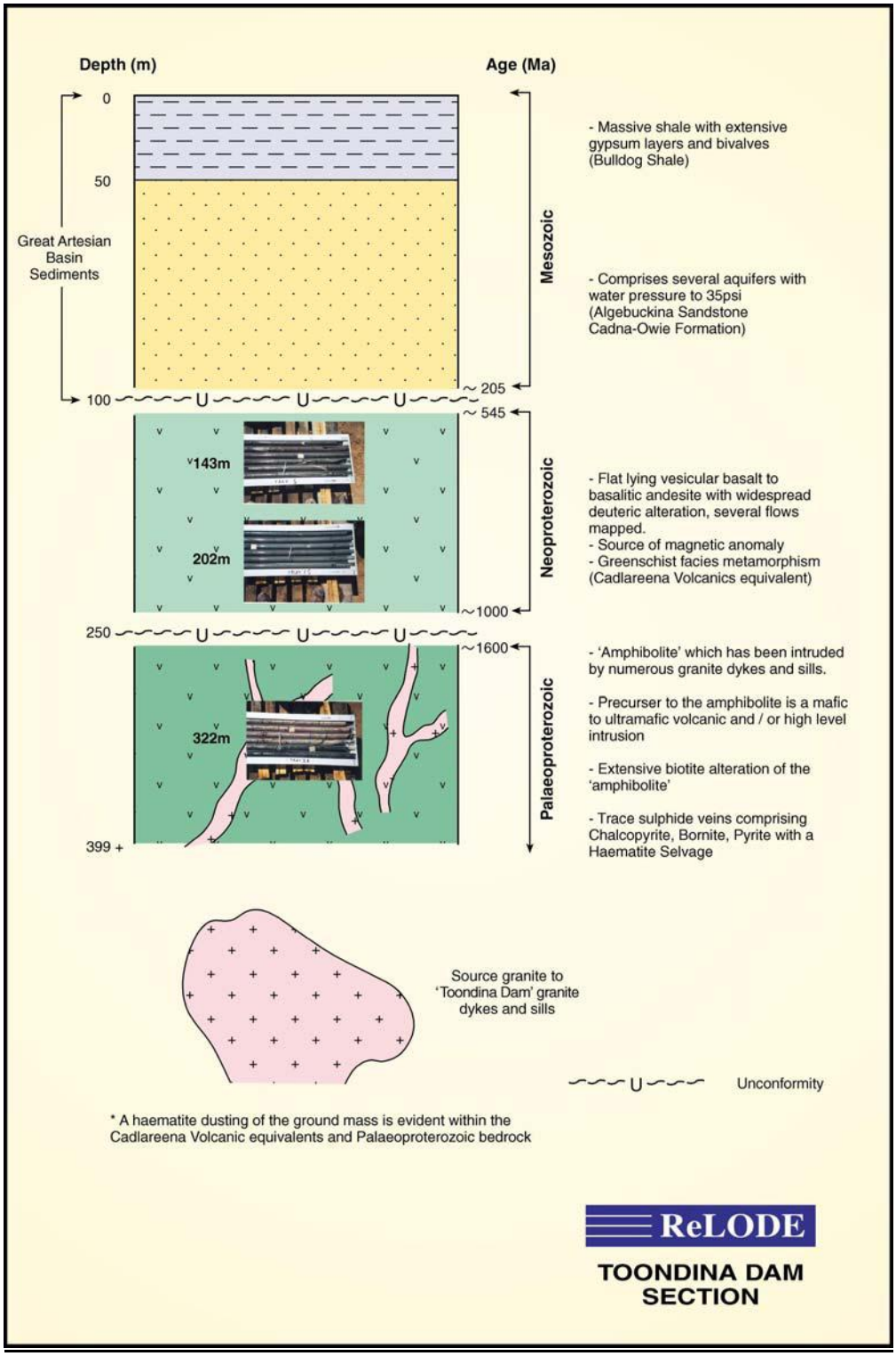


Figure 7 - Toondina Dam Schematic Section

5.0 EXPENDITURE STATEMENT

The following table summarises the expenditure incurred over half the reporting period for EL 158/2936.

ReLODE Limited

Expenditure on Tenements 158/2936
From 26 April 2003 to 25 April 2004

Details	$ (Excl GST)
Tenement Purchases	
Geology and Geophysics	41,961
Drilling	
Logistics	
Administration and Overheads	2,283
Aboriginal Heritage Surveys	
Land Access and Native Title	1,736
Rents and Rates	6,094
TOTAL	**52,074**

REFERENCES

Derriman, M. Exploration completed on the Oodnadatta Project for the period 26th April 2003 to 25th April 2004. EL158/2963. Unpublished report to Department of Primary Industry and Resources South Australia (PIRSA). ReLODE Ltd.

Appendix 1

Results of Ground Geophysical Survey, Borthanna Project

Magnetic and Gravity modelling

Lindeman Geophysics Pty Ltd

May 5th, 2003

Memo to: Dr Robin Morritt
ReLODE Ltd

From: Frank Lindeman

Subject: Results of Ground Geophysical Survey
Borthanna Project, Oodnadatta EL

Introduction:
The Borthanna Project area is one of the three original magnetic targets, which were identified in the initial examination of the Oodnadatta E.L.. Previously completed interpretation of the high quality 300m line spaced aeromagnetic data, which were acquired from PIRSA, indicated that this prominent magnetic anomaly is sourced by 3 deep magnetic sources, the shallowest being approximately 588m to top-**figure 1**. This magnetic interpretation indicated therefore that the magnetic sources are too deep for drill testing. Please note that the most northern and deepest sourced part of this response (ie north of body 3) was not modelled.

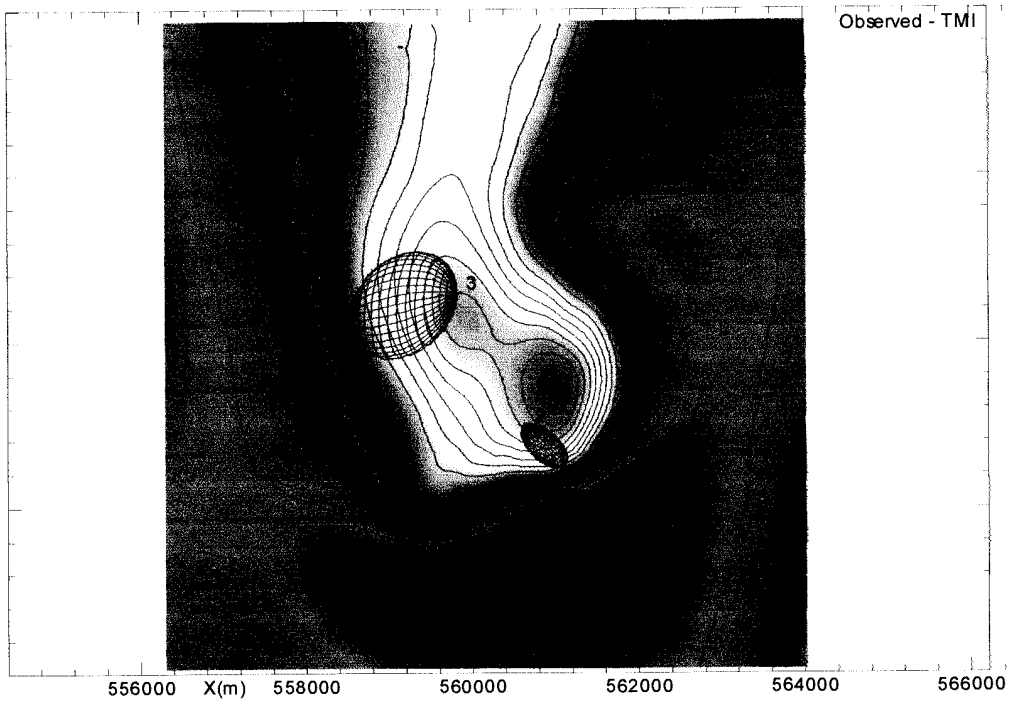


Figure 1: Borthanna Project-Aeromagnetic Data plus Interpreted Magnetic Models
(*** Northings: 6912000N to 6920000N)

Unlike the situation with the magnetic data, the gravity coverage over the Borthanna target is extremely poor, with basically a single east-west line of 42 stations spaced ~250m apart, being the only coverage over the project area. Evident on the regional coverage just to the east of the Borthanna Project is a broad north-south gravity ridge. The situation with the gravity data was reported previously in a 24th October, 2002 email report to Mark Derriman of ReLODE Ltd which stated:

"I conclude that while there is now no Bouguer gravity response at Borthanna, a single line of data is not well placed to discover one. There is a well-documented "lack of data coverage" in the area, which means that a significant gravity response could still exist where there are no stations. From the east west gravity line at Borthanna, there is no coverage for 3.3 kms to the north and over 7kms to the south. I should also point out that the range of data on the east west line is >21 mgals.....-15.3 to 6.5 mgals, which is extremely high considering the close station spacing. Given this fact, a discrete residual gravity response could well exist once the strong regional response has been removed".

The Oodnadatta EL is located over the ***O'Driscoll G2 gravity lineament*** which trends in a north-north-west direction across Australia from western Victoria through Olympic Dam to Cambridge Gulf in the Northern Territory. Specifically, the Borthanna Project area, as defined by the magnetic response, lies on this lineament.
The Borthanna magnetic anomaly was explored by BHP in 1983/4 when known as "The Neales". BHP reports, which cover this exploration, have been obtained from PIRSA and are in the ReLODE Ltd offices in Nedlands.

Ground Geophysical Survey:
Magnetics:

Daishsat has recently completed ground coverage using 300m line spacings and a 20m reading interval. In the northeast of the survey area, the original program was compromised due to difficult ground conditions. With due consideration to the relative importance of this specific area, which is basically peripheral to the main magnetic response, authorisation was given by Lindeman Geophysics for Daishsat not to make further attempts to collect this data.

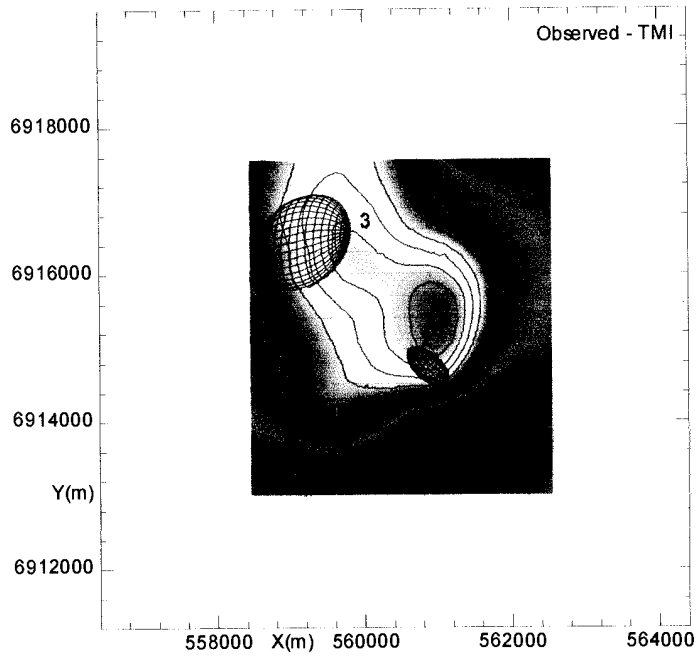


Figure 2: Borthanna Project-Ground Magnetic Data plus Aeromagnetic Models

Figure 2 shows the coloured image of the ground magnetic data along with the 3 magnetic bodies as interpreted from the airborne data. 3D interpretation of this ground data has been completed using the Potent software and **figure 3** shows the magnetic data with these magnetic sources.

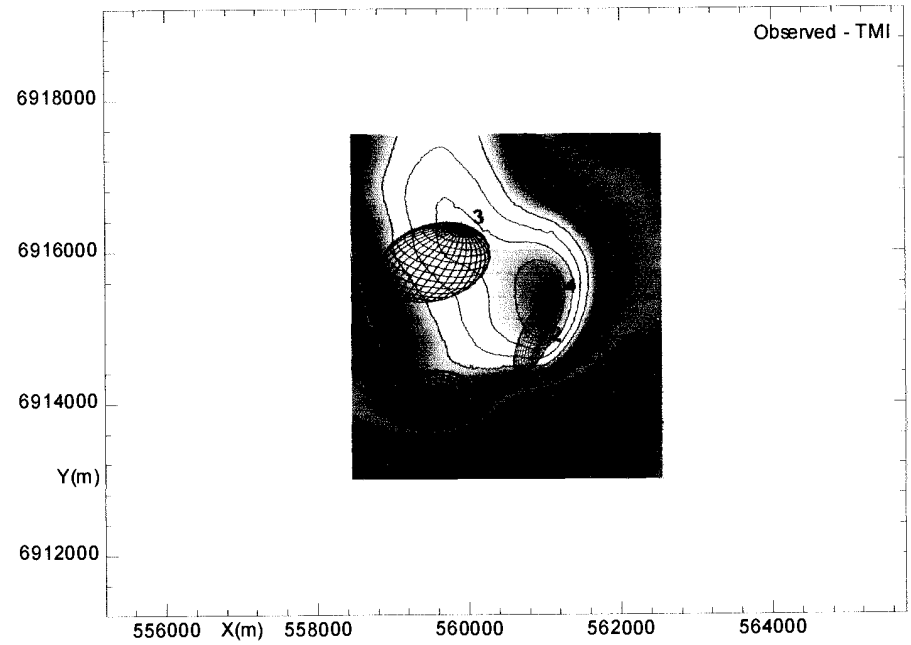


Figure3: Borthanna Project-Ground Magnetic Data plus Interpreted Magnetic Models

Details of these models are as follows:

Models #	*Estimated Depth to Top*	*Magnetic Susceptibility (SI units)*
1	785m	0.37
2	724m	0.41
3	1297m	0.29
4	270m	0.04

All interpreted magnetic bodies therefore are not realistic drill targets because of their large estimated depths to top. It should be noted that body 4, by far the shallowest of the bodies at 270m to top, is limited in size and has the weakest magnetic susceptibility of all the bodies. It could, in fact, represent some shape irregularity with body 2, remembering that the ellipsoid shape is not a realistic representation of a geologic entity.

Gravity:

Utilising the same lines as used for the ground magnetics, and a station spacing of 60m, the gravity program has just been completed, although the northern three lines of the original program were not able to be read due to poor ground conditions. The Daishsat operations report, which has already been supplied to ReLODE, describes the problems experienced. At the time of writing this report, there appears no reason to complete the survey, as the magnetic bodies have been covered efficiently enough to be able to recognize whether a gravity response could exist in their vicinity. Station elevation varies only 13.62m across the survey area and so is not a factor in the interpretation process.

Figure 4 shows the contours of the Bouguer gravity overlaid onto the ground magnetic data. Also shown in this figure are the ellipsoid magnetic bodies, as interpreted from the ground magnetic data.

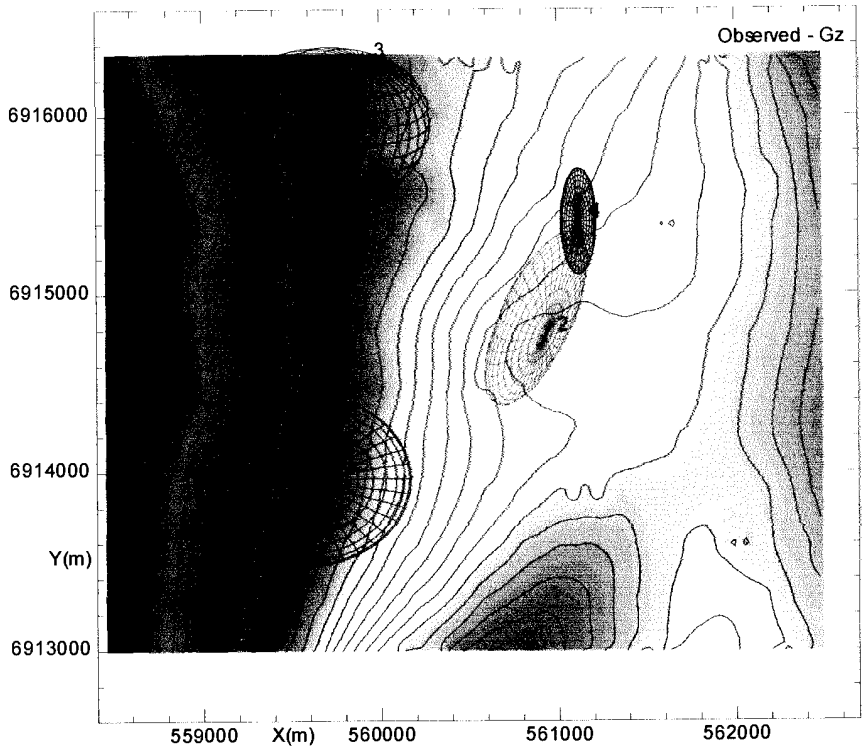


Figure 4: Borthanna Project Bouguer Gravity and Magnetic Models

Examination of the gravity data shows a prominent approximately 7mgal east-west regional response, along with the existence of two residual gravity responses, both roughly centred on 561000E. One anomaly is defined on the southern 3 lines in a non-magnetic area, while the second is centred at approximately 6914500N, which is very close to the location of the magnetic body 2 and adjacent to body 4. This is a potentially a very interesting result, particularly as there is no residual gravity response which could relate to magnetic bodies 1 and 3. Consequently 3D modelling has only been completed on this second residual gravity anomaly.

Subjectivity and Ambiguity in Gravity Interpretation:

All models of potential field data are interpretations that may be permitted by the data but are not required by the data (Hanneson, 2003)

a) The veracity of this residual Bouguer gravity response relies heavily on the method of removal of the gravity regional. This is a very subjective process and in this case is totally responsible for the size and shape of the gravity residual. In this instance the Potent 3D potential field modelling program was utilized to firstly estimate the regional, remove it from the original data and finally to model the residual response. It is highly probable that different workers will arrive at different values for the regional and hence the gravity residual and hence the values given here are the views only of Lindeman Geophysics.

b) The problem of ambiguity in interpretation always exists with gravity data. Gravity deals with density contrasts, and as such, all contrasts will be reflected in this data. Density contrasts caused by paleo-topography ie an irregular depth of weathering,

buried geological contacts, and surficial geological noise can give rise to significant gravity anomalies. In situations of non-outcrop and where no subsurface geology is available, the correct causes for these anomalies are difficult to predict.
In practice, an interpretation can be aided by geological intuition and logic, such as that obtained from drill logs and from other geophysical techniques, such as magnetics. In addition some useful information on the estimates of depth and total mass contrast can be obtained from gravity data without making assumptions about the causative body.

Below are listed some comments made by pioneers in gravity interpretation:

.....widely different mass distributions below the ground can give the same gravity picture on the surface." Skeels, 1942.

"For a given distribution of gravity anomaly...., an infinite number of mass distributions can be found which would produce the same anomaly." Sharma, 1976.

"Gravity measurements alone do not suffice to uniquely determine the distribution of anomalous masses." Dobrin, 1966

" ....quite different geometrical types of mass can explain a set of (gravity) data." Dobrin, 1966.

Advice has been sought from a colleague of mine and it must be said that the residual calculated by him can be modelled by a source similar in depth to the magnetic body.

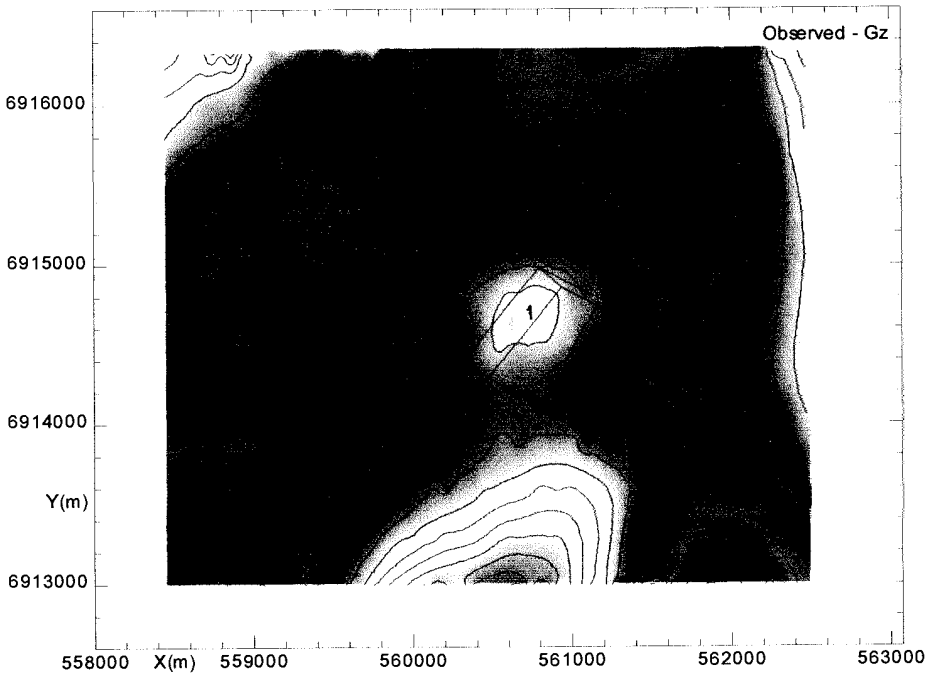


Figure 5: Borthanna Project-Residual Bouguer Gravity plus Interpreted Gravity Body

Figure 5 shows the residual Bouguer gravity response and the interpreted body #1. **Figure 6** shows a profile over this model while **figure 7** shows a plan of the residual gravity data, the magnetic anomaly and the modelled gravity body. Details of this body are:

Estimated Depth to Top	*Density*	*Dimensions*
216m	0.327 g/cc	735m x 200m x 1520m depth extent

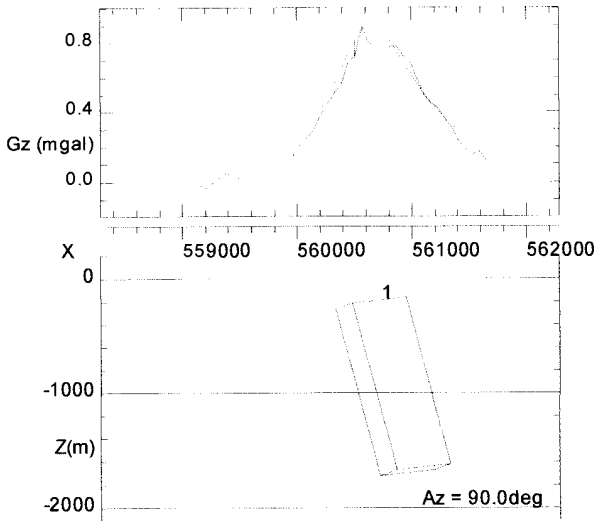


Figure 6: Borthanna Project Line 6914500N Bouguer Gravity plus Model

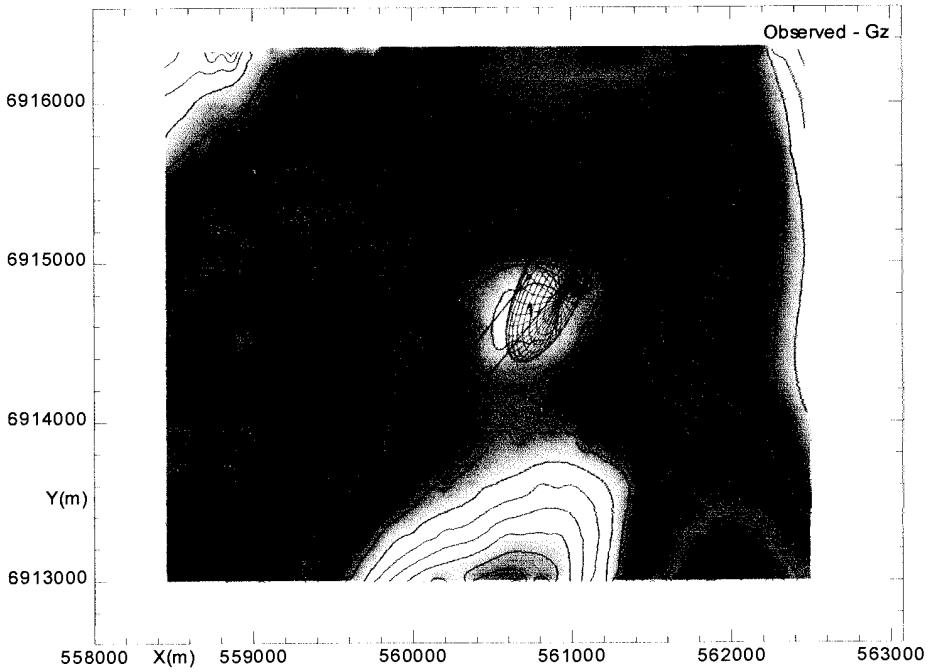


Figure 7: Borthanna Project- Residual Bouguer Gravity with
Gravity Body (prism) plus Magnetic Body (ellipsoid)

Below are two profiles, lines 6914500N (**figure 9**) and 6914800N (**figure 8**), which best traverse the magnetic body 2 and the gravity body. Please note that the solid part of the bodies in these cross sections reflect that part of the body which is in the plane of the profile.

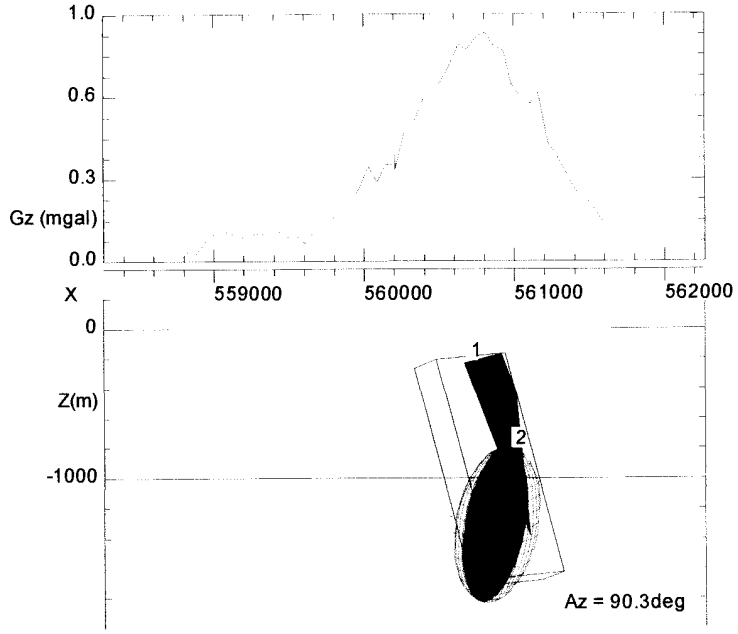


Figure 8: Borthanna Project Line 6914800N- Residual Bouguer Gravity plus
Gravity Model (prism) and Magnetic Model (ellipsoid)

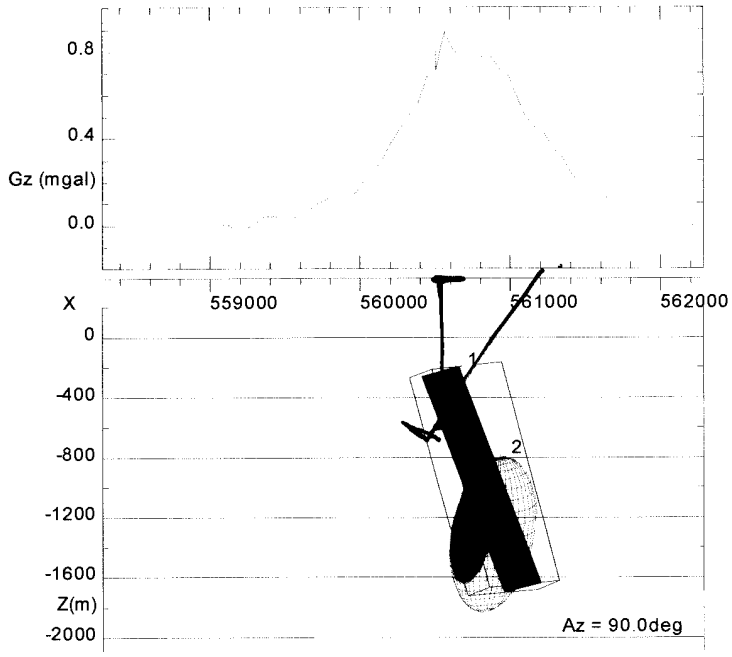


Figure 9: Borthanna Project Line 6914500N- Residual Bouguer Gravity Plus Gravity Model (prism) and Magnetic Model (ellipsoid)

Discussion of Results:

The calculation of the gravity residual and interpretation ambiguity notwithstanding, the interpretation of the magnetic and gravity data from the residual Bouguer anomaly located in the centre of the survey area gives an intriguing result. The three dimensional modelling shown here suggests that a gravity body with a density contrast of 0.3 – 0.4 g/cc and with a depth extent of over 1500m has a depth to top of ~216m. The magnetic modelling indicates that the lower half of the gravity body is very magnetic having 0.41 SI unit susceptibility. This scenario has similarities to the geophysical response from the Olympic Dam deposit in SA. There the gravity response, whose source has a depth to top of approximately 300m, is located basically *above* the strong magnetic response, whose source to date, because of its depth, we understand is still a mystery. Although the Borthanna gravity body is much smaller than the response at Olympic Dam (~20 sq kms), it has a stronger residual Bouguer gravity response (0.8 m gals) than that at Olympic Dam which is strangely only in the order of 0.3 m gals. The Olympic Dam deposit is basically mapped by the Bouguer gravity residual, which is extracted from the original 11m gal regional response.

The Borthanna situation certainly appears very interesting, albeit being dependent on the subjective removal of the gravity regional and the modelling of gravity data, which in unknown geological situations such as here, can produce non-unique solutions.

Frank Lindeman

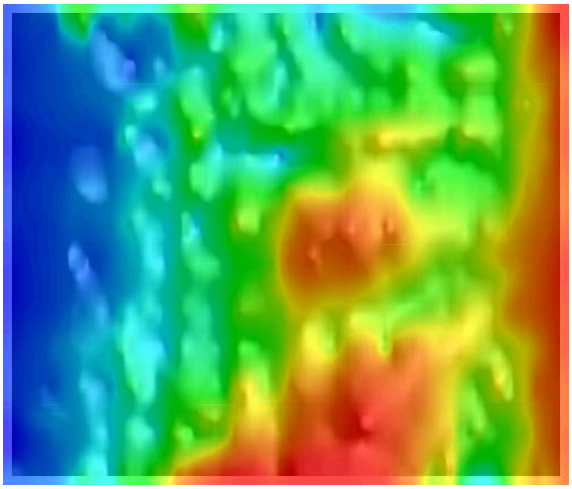
Appendix 2

Borthanna Dam Gravity and Mag Surveys 2003
Daishsat Pty Ltd.

BORTHANNA GRAVITY SURVEY 2003

April 2003

Report Number 03007-1
LR Mathews



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ReLODE Limited

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1. INTRODUCTION

A precision GPS-Gravity-Magnetics survey was carried out between 31st March and 16th April 2003 for ReLODE Limited. A total of 811 gravity stations and 2827 magnetic stations were surveyed over an area called Borthanna, near Oodnadatta, South Australia.

Gravity data were acquired using Scintrex CG3M digital gravity meters. Position and level data were obtained using Leica System 500 units, to produce precise-real-time-kinematic GPS locations. All data were acquired using Daishsat vehicle borne methods.

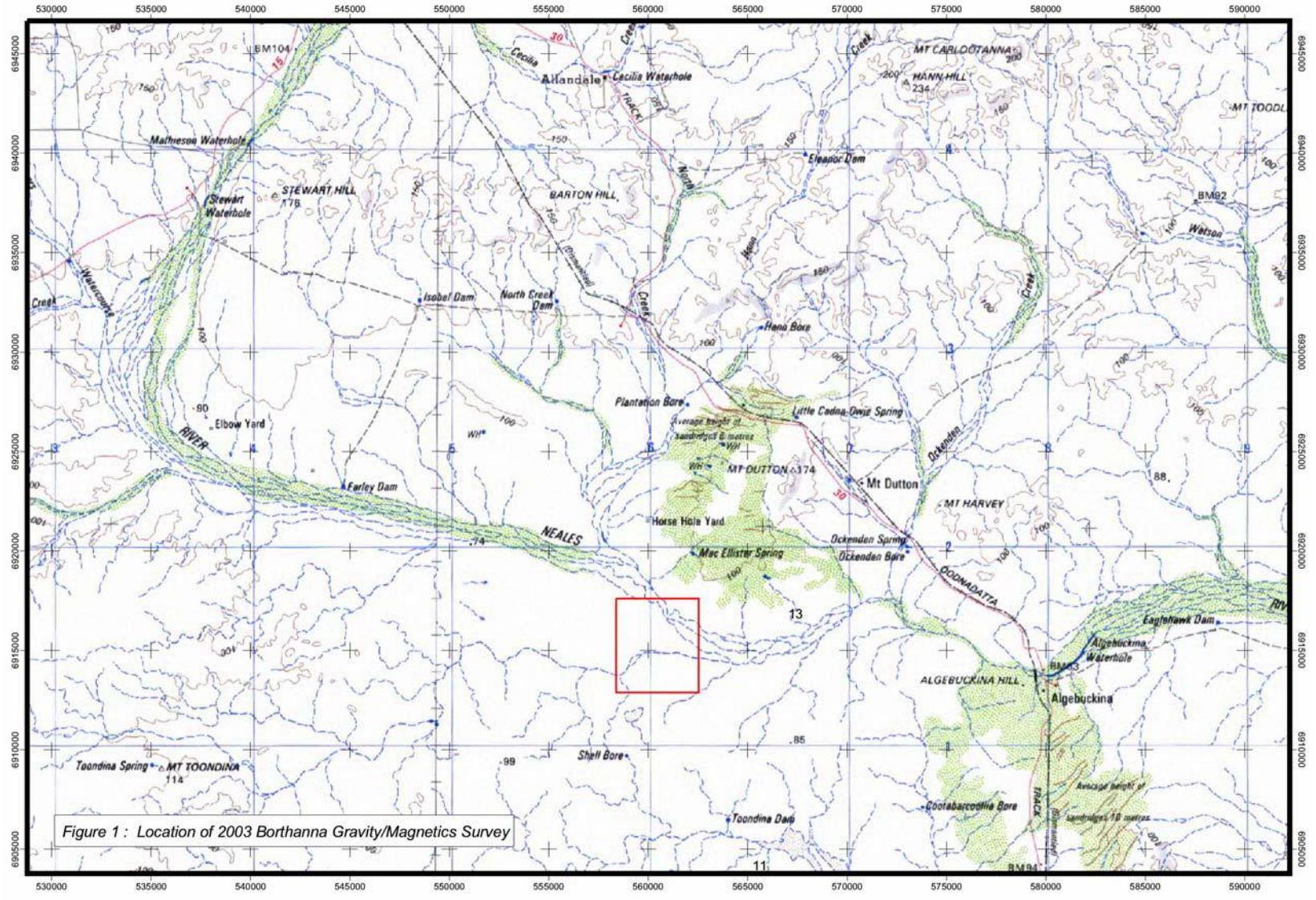
Magnetic data were acquired with GEM Systems GSM and Geometrics G856 magnetometers.

Gravity data were reduced using standard reductions on the ISOGAL84 gravity network. GPS data were reduced to AMG coordinates with levels expressed as metres above the Australian Height Datum.

2. SURVEY OVERVIEW

A single survey was conducted at Borthanna, south of Oodnadatta. The gravity survey was conducted on 60m stations, 300m lines, with the magnetics surveyed every 20m on the same lines. This survey was located on the SG5315 1:250000 mapsheet. The survey area was accessed via the Oodnadatta track and station tracks from Allandale station (See Figure 1).

Specifications for the survey are contained in Appendix C, at the back of this report.


530000
535000
540000
545000
550000
555000
560000
565000
570000
575000
580000
585000
590000
6945000
6940000
6935000
6930000
6925000
6920000
6915000
6910000
6905000
BM104
Allandale
Cecilia Waterhole
MT CARLOOTANNA
HANN HILL
234
MT TOODL
Matheson Waterhole
Stewart Waterhole
STEWART HILL
175
BARTON HILL
Eleanor Dam
BM92
Watson
Isobel Dam
North Creek Dam
Hana Bore
Plantation Bore
Little Cadna-Owie Spring
Elbow Yard
RIVER
Farley Dam
MT DUTTON
374
Mt Dutton
MT HARVEY
Horse Hole Yard
NEALES
Mac Ellister Spring
Ockenden Spring
Ockenden Bore
OODNADATTA
Eaglehawk Dam
Algebuckina Waterhole
ALGEBUCKINA HILL
Algebuckina
Toondina Spring
MT TOONDINA
114
Shell Bore
Toondina Dam
Cootabaccoodlia Bore
BM94
Figure 1 : Location of 2003 Borthanna Gravity/Magnetics Survey

3. PERSONNEL AND EQUIPMENT

3.1 Personnel

The supervisor in charge of the project was Mr. Ben Allsopp. Ben was responsible for daily management of the job and for nightly data processing to ensure quality and integrity. Gravity and Magnetics measurements were carried out by Nathan Byrne and Ben Allsopp. Final data reduction and inspection were performed by the company geophysicist, Leon Mathews.

3.2 Survey equipment

- Three Scintrex CG-3M digital gravity meters (SN 9408275, 9711397, 908457)
- Two Leica System 500 dual frequency GPS receivers (Rover and Base)
- Four VHF Pacific Crest Data Modem/Radios
- Garmin Handheld GPS receivers for navigation
- Two Compaq notebooks for data processing and backup
- Various chargers, solar cells and batteries
- One Gem Systems GSM-19 Magnetometer (Base Station)
- One Geometrics G856 Magnetometer



Photo 1 : Leica Real-Time GPS Base

3.3 Vehicles

Due to the type of terrain to be encountered, 4wd Landcruiser vehicles were used for the duration of the job. To maintain the high Daishsat safety record, vehicles were fitted with a range of safety equipment including:

- One 20l jerry can of water
- Dual fuel tanks
- Two spare tyres
- HF radio
- Self-recovery equipment including a hand winch, snatch straps and rope
- Tyre pliers to effect tyre repairs in the field
- Tools and spares to enable field repairs as necessary
- Survival kit with EPIRB emergency locator beacon

3.4 Camp

The crew stayed at the Oodnadatta Hotel for the duration of the survey.



Photo 2 : Getting dirty.

3.5 Communications

The survey crew was equipped with hand-held Iridium satellite phones, as well as UHF transceivers. Skeds were made to Daishsat base at regular intervals to ensure crew safety.

4. GPS SURVEYING AND PROCESSING

4.1 Set out of the grid

This was done concurrently with the gravity data acquisition using Leica RTK GPS. Where possible, the readings were taken as close to the ideal coordinates as possible. Some stations were offset or omitted due to the nature of the terrain, e.g. hilly or thickly vegetated areas. As the Leica System was operating in precise RTK mode, set out accuracy was better than 2cm. At the repeat stations, a washer tied to pink flagging, marked with the station number, was used for identification. At each station, the station number, position and RL were recorded digitally by the GPS crew.

4.2 Survey datum and control

The gravity surveying, and hence any gravity reductions, used the Australian Height Datum (AHD) as the reference datum. All GPS/Gravity base stations were established using two days worth of static data, and connections to ITRF stations using AUSLIG's online GPS processing system, AUSPOS. For more information on this system, please visit http://www.auslig.gov.au/geodesy/sgc/wwwgps/. Final deviations of better than 5mm were obtained for x,y and z, for all occupations.. Appendix D contains the GPS base station information.

4.3 Processing of the position and level data

The real-time kinematic GPS data were recorded on 2Mb Flashcards, which were downloaded onto computers daily. All data is processed in real time, so no further processing was required.

Simple transformations to AMG and AHD were done using the GPS derived WGS84 positions.

AHD heights were calculated in real-time on the fly using Leica algorithms and the latest geoid model for Australia, AUSGEOID98. Information about the geoid, and the modeling process used to extract separations (N values) can be found at http://www.auslig.gov.au/geodesy/ausgeoid/geoid.htm. To obtain AHD heights, the modeled N value is subtracted from the GPS derived WGS84 ellipsoidal height (Figure 2).

$$H_{AHD}=h_{WGS84}-N$$

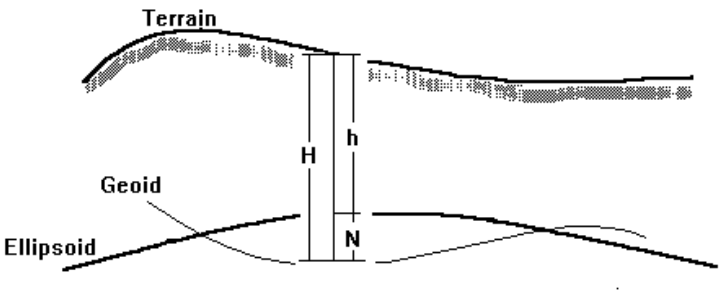


Figure 2: Geoid-Ellipsoid separation

4.4 GPS Performance

Performance from the Leica RTK system was excellent, with minimal downtime due to poor geometry and/or trees.

5. GRAVITY ACQUISITION AND PROCESSING

5.1 Gravity data acquisition

At each station, two observations were made on the side of the vehicle, next to the GPS antenna (Photo 2). Each observation consisted of a 20-second or greater stacking time. Two observations were made at each station so that any seismic or instrumental noise could be immediately detected. The accepted tolerance between readings was limited to 0.02 milligals to ensure accuracy. Vertical and horizontal levels were restricted to 5 arc seconds at all times. At each station, the station number, time and two gravity readings (in dial units) were recorded in DAISHSAT carbon-copy gravity field books. The Scintrex CG3 also automatically records the station, time and readings digitally to allow for downloading to computer.

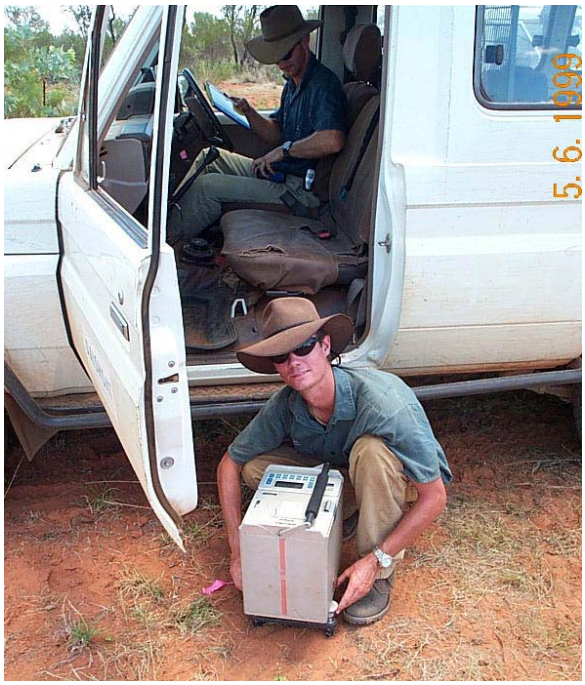


Photo 3 - Gravity Acquisition

5.2 Gravity base stations

A single base stations (0083) was used for calculation of absolute gravity and drift determination. Details of the gravity base utilised are contained in Appendix D. When in the field, a base station reading was taken in the morning before observing, and at evening after the last observation. When taking a base station reading, the observed gravity values were stacked over 120 seconds to ensure accuracy. Two observations of 120 seconds were taken at each base reading. Observations were repeated until the readings repeated to 0.01of a dial reading or less.

The new base stations were tied to the Australian Fundamental Gravity Network via connection to Daishsat base 0011 used previously on other ReLODE jobs.

5.3 Gravity data processing

Raw gravity data were processed on a daily basis to check for quality and integrity. This interim process produced a set of Bouguer Gravity values, which were contoured and imaged to provide a check for any anomalous readings that would need repeating. Geosoft GRAVRED software was used for the gravity reduction in the field. Upon conclusion of the job, data were reprocessed using the standard AGSO formulae (see below).

1. **Instrument scale factor:** This correction was used to correct a gravity reading (in dial units) to a relative milliGal value based on the meter calibration.

2. **Tidal correction:** This correction was used to correct for background variations due to changes in the relative position of the moon and sun. The Scintrex calculated ETC was removed and a new ETC calculated using Geosoft Formulae and the surveyed GPS latitude. The formula is too complex to list here.

3. **Instrument Drift:** Since gravity meters are mechanical, they are prone to drift (extension of the spring with heat, obeying Hooke's law). If two base readings are taken one can assume that the drift between the two readings is linear and can therefore be calculated. The drift and tidal corrected value is referred to as the observed gravity.

4. **Theoretical Gravity:** The theoretical value of gravity was calculated using the 1967 variant of the International Gravity Formula and used to latitude correct the observed gravity.

$$g_t = 9780318 \times (1 + 0.0053024 \sin^2 \Phi - 0.0000059 \sin^2 2\Phi)$$

where Φ = GDA94 latitude

5. **Free-Air Correction:** Since gravity varies inversely with the square of distance, it is necessary to correct for changes in elevation between stations to reduce field readings to a datum surface (in this case, AHD).

$$FA = 3.086 \times h_{AHD}$$

6. **Bouguer Correction:** This correction accounts for the attraction of material between the station and datum plane that is ignored in the free-air calculation. A value of 2.67 gm/cc was used in the correction.

$$BC = 0.419 \times \rho \times h_{AHD}$$

where ρ = density (2.67 gm/cc)

7. **Terrain Correction:** This correction accounts for the attraction of material above the assumed Bouguer slab and for the over-correction made by the Bouguer correction when in valleys. This correction was not applied as most the survey area was flat.

8. **Bouguer Gravity:** This is obtained when all the preceding reductions or corrections have been applied to the observed gravity reading.

$$BG267 = G_{OBSG84} - G_t + FA - BC$$

9. **Complete Bouguer Gravity**: This is obtained by adding the terrain correction to the Bouguer Gravity.

$$BG267 = G_{OBSG84} - G_t + FA - BC + TC$$

5.4 Gravity meter calibration and scale factors

The gravity meter used had previously been calibrated over a number of calibration ranges in WA and SA. Derived scale factors from these calibrations are shown below:

CG3M	9408275	SF = 1.000000
CG3M	9711397	SF = 1.000000
CG3M	9408457	SF = 1.000000

5.5 Gravity meter drift calibration

While the survey was in progress, the meter was cycled overnight as a check on instrument drift. Changes were made to the drift constant where appropriate.

6. MAGNETICS ACQUISITION AND PROCESSING

6.1 Magnetics data acquisition

Ground magnetics was collected on 20m intervals using a Geometrics G856 proton-precession magnetometer. A GEM Systems GSM-19 Overhauser magnetometer was used as a base station for collecting diurnal data. Diurnal data were collected at 30sec time intervals. All lines were surveyed by foot, with the operator ensuring they are stationary for the three seconds required to take the measurement.

6.2 Magnetics data processing

Magnetic data were processed to Total Magnetic Intensity (TMI) using diurnal corrections made with the base station data. After removing the diurnal, the final corrected mag was obtained. The mag data was despiked, and filtered to remove noise where necessary.

7. RESULTS

Raw and processed GPS and gravity data are contained on CDROM as Appendix F. Hardcopy plots of station location/images are contained in Appendix A.

7.1 Stations Surveyed and Survey Progress

In total, 811 new gravity stations and 2827 magnetic stations were acquired during the survey. A brief production summary for each area is shown in Table 1 below. Survey progress was hampered initially by problems with the instruments. Heavy rain in the area made accessing the northern part of the survey difficult to impossible. Part of the survey, north of the Neales River was abandoned, as it was impossible to access that area due to flooded creeks and washouts. A separate report was written by the field operators to detail the poor conditions experienced during surveying - this is included as Appendix E. Gravity production rates varied between 80 and 170 stations/day.

Borthanna		
Gravity stations acquired (including repeats)	**856**	**stations**
Gravity station repeats	**45**	**5.2%**
New gravity stations acquired	**811**	**stations**
New magnetic stations acquired	**2827**	**stations**
Total accidents	**0**	**accidents**
Total hours lost from accidents	**0**	**hours**

Table 1 : Gravity Production Summary

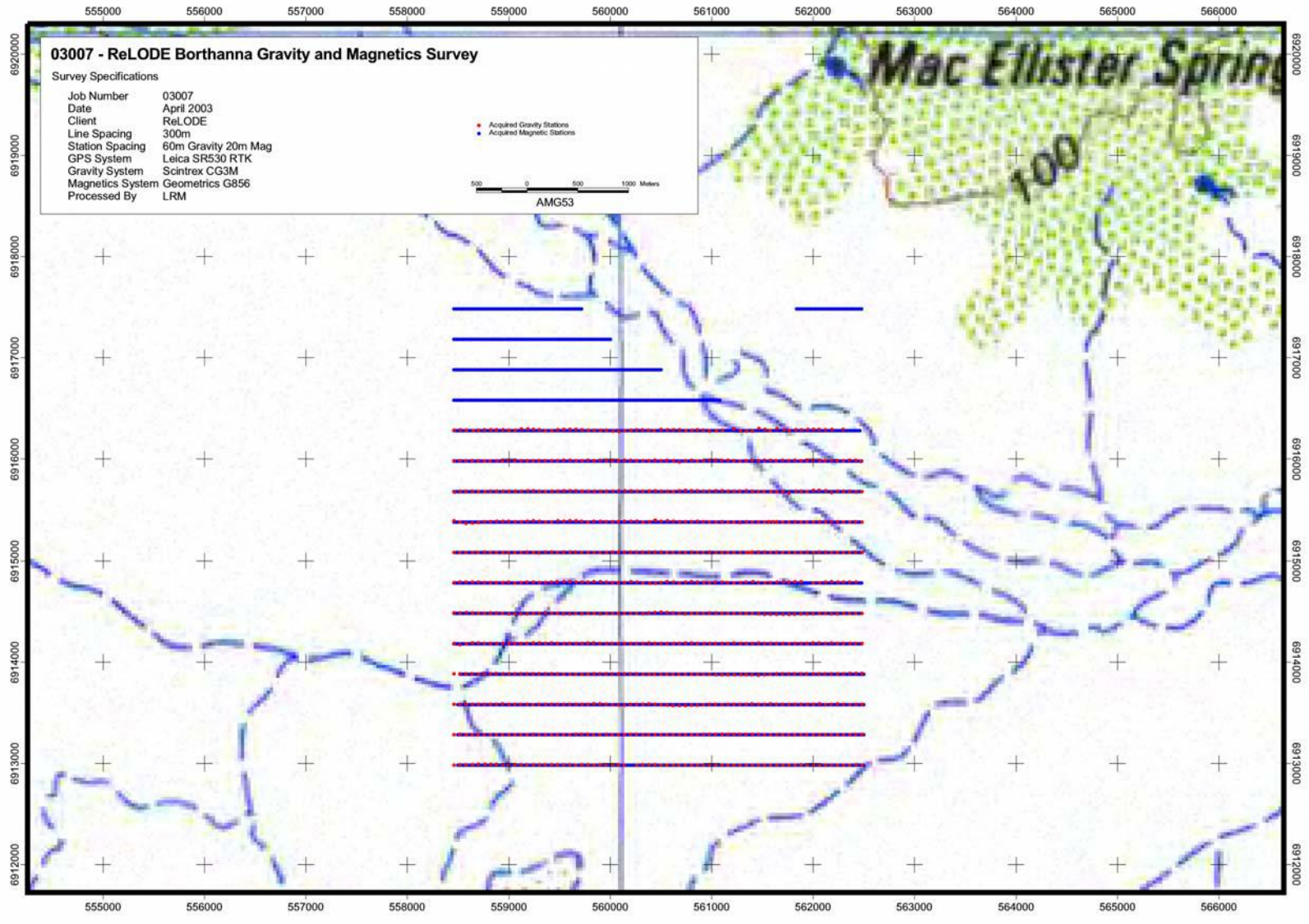
7.2 Data Repeatability

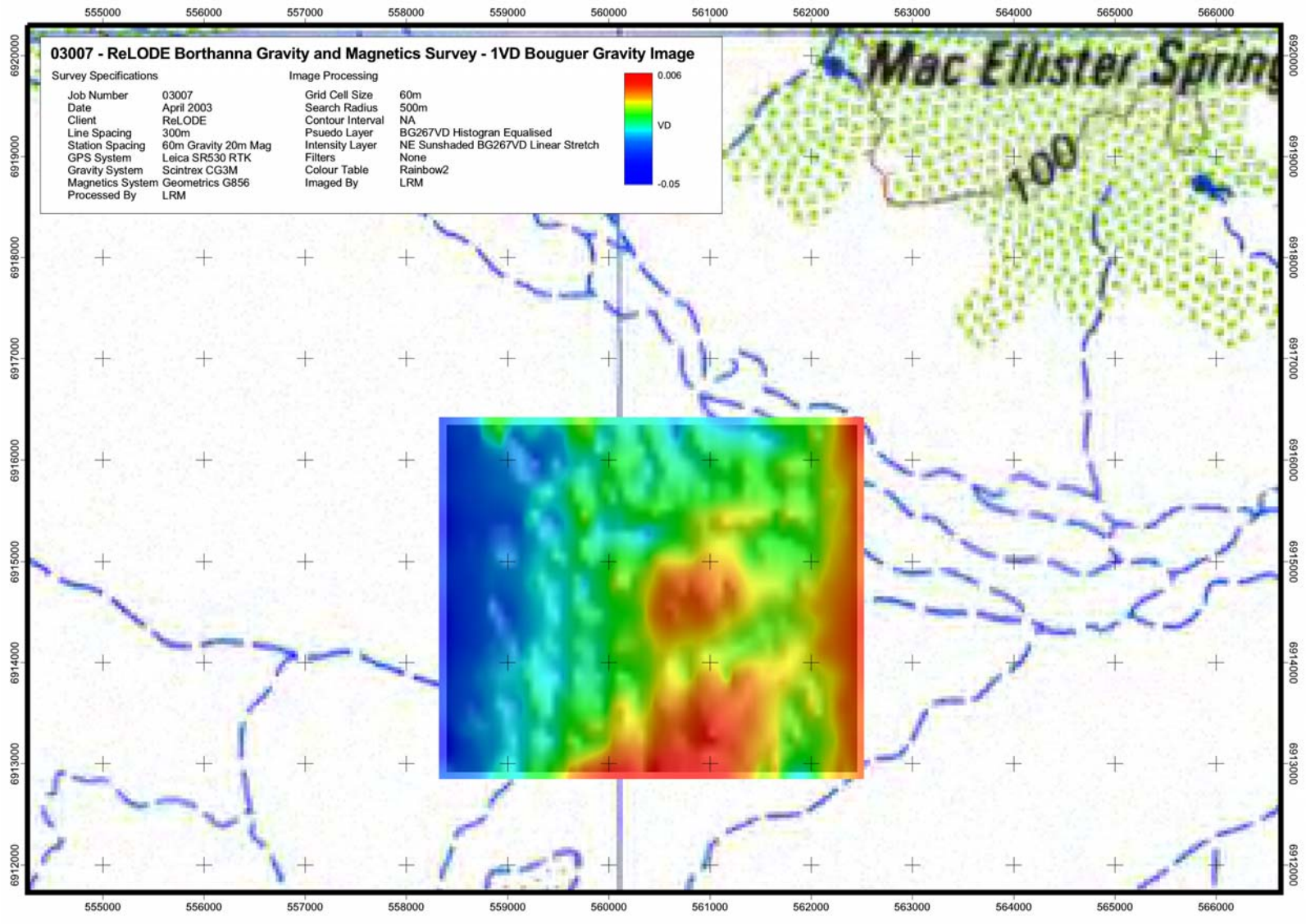
Analysis of the repeat data shows that measurement repeatability is excellent for both GPS and Gravity observations. An analysis for the survey is included in Appendix B. Based on the repeat data, one can assume the following typical accuracies for the observables:

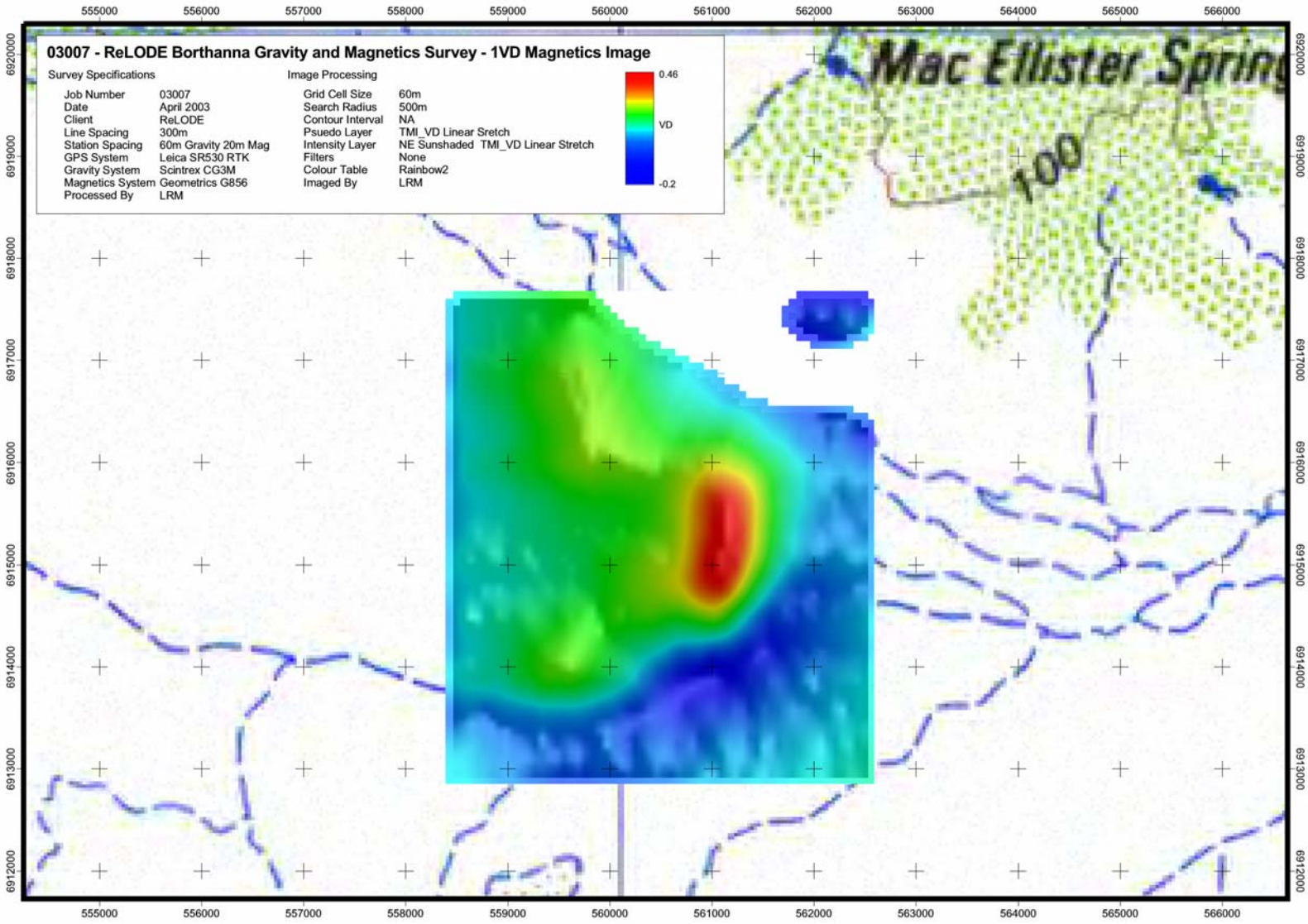
Z observation	0.02 m
Gravity observation	0.03 mGals

APPENDIX A

Plots of station location / Images


03007 - ReLODE Borthanna Gravity and Magnetics Survey
Survey Specifications
Job Number 03007
Date April 2003
Client ReLODE
Line Spacing 300m
Station Spacing 60m Gravity 20m Mag
GPS System Leica SR530 RTK
Gravity System Scintrex CG3M
Magnetics System Geometrics G856
Processed By LRM
Acquired Gravity Stations
Acquired Magnetic Stations
500 0 500 1000 Meters
AMG53
Mac Ellister Spring
100
555000
556000
557000
558000
559000
560000
561000
562000
563000
564000
565000
566000
6920000
6919000
6918000
6917000
6916000
6915000
6914000
6913000
6912000


03007 - ReLODE Borthanna Gravity and Magnetics Survey - 1VD Bouguer Gravity Image
Survey Specifications
Job Number 03007
Date April 2003
Client ReLODE
Line Spacing 300m
Station Spacing 60m Gravity 20m Mag
GPS System Leica SR530 RTK
Gravity System Scintrex CG3M
Magnetics System Geometrics G856
Processed By LRM
Image Processing
Grid Cell Size 60m
Search Radius 500m
Contour Interval NA
Psuedo Layer BG267VD Histogran Equalised
Intensity Layer NE Sunshaded BG267VD Linear Stretch
Filters None
Colour Table Rainbow2
Imaged By LRM
0.006
VD
-0.05
Mac Elister Spring
100
555000
556000
557000
558000
559000
560000
561000
562000
563000
564000
565000
566000
6920000
6919000
6918000
6917000
6916000
6915000
6914000
6913000
6912000


03007 - ReLODE Borthanna Gravity and Magnetics Survey - 1VD Magnetics Image
Survey Specifications
Job Number 03007
Date April 2003
Client ReLODE
Line Spacing 300m
Station Spacing 60m Gravity 20m Mag
GPS System Leica SR530 RTK
Gravity System Scintrex CG3M
Magnetics System Geometrics G856
Processed By LRM
Image Processing
Grid Cell Size 60m
Search Radius 500m
Contour Interval NA
Psuedo Layer TMI_VD Linear Sretch
Intensity Layer NE Sunshaded TMI_VD Linear Stretch
Filters None
Colour Table Rainbow2
Imaged By LRM
0.46
VD
-0.2
Mac Elister Spring
100
555000
556000
557000
558000
559000
560000
561000
562000
563000
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6913000
6912000

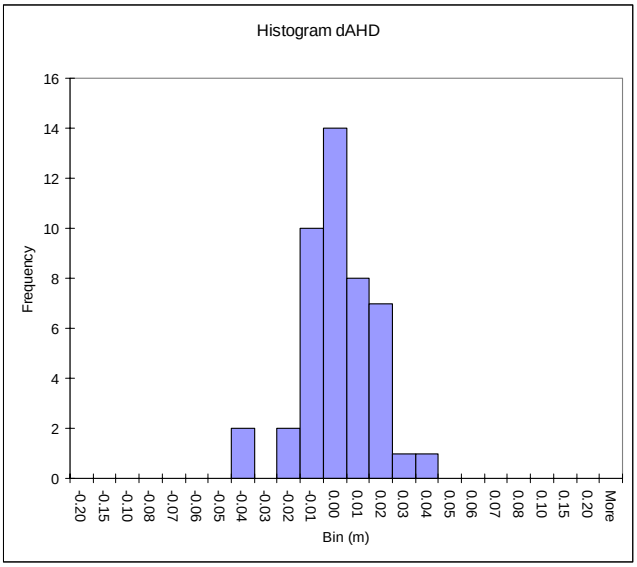
APPENDIX B

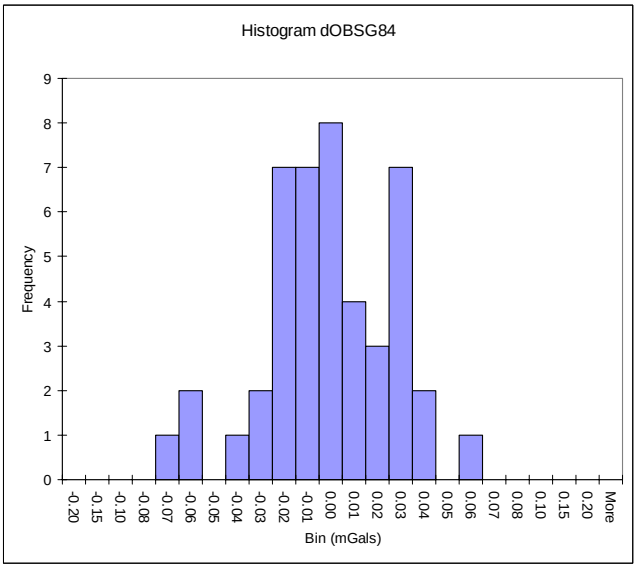
Repeat Tabulation and Analysis

SUMMARY STATISTICS

dht		*dobsg*	
Mean	0.00	Mean	-0.01
Standard Error	0.00	Standard Error	0.00
Median	0.00	Median	-0.01
Mode	0.00	Mode	0.02
Standard Deviation	0.01	Standard Deviation	0.03
Sample Variance	0.00	Sample Variance	0.00
Kurtosis	1.56	Kurtosis	0.49
Skewness	-0.38	Skewness	-0.48
Range	0.08	Range	0.12
Minimum	-0.05	Minimum	-0.07
Maximum	0.03	Maximum	0.05
Sum	-0.15	Sum	-0.29
Count	45	Count	45

HISTOGRAMS





APPENDIX C
Survey Specifications

Survey Name	BORTHANNA
Operators	BA, NB
Techniques Employed	GPS, Gravity, Magnetics
Station Spacing	60m GRAVITY 20m MAGNETICS
Line Spacing	300m
Gravity Meter	Scintrex CG3 SN 9408275 408275 711397
GPS	Leica SR530

APPENDIX D
Base Station Information

GPS Gravity Base 0083 – Borthanna

MGA94

EASTING	560 082.737
NORTHING	691 4440.882
ZONE	53
HEIGHT (AHD)	73.150

GDA94

LATITUDE	-27.89354025
LONGITUDE	135.61047260

OBSERVED GRAVITY

979141.837 mGals ISOGAL84

SURVEYED BY

GPS - Daishsat using multiple static sessions and the AUSPOS online GPS processing system. Accuracy of x,y,z better than 5mm.
Gravity – Daishsat using ABABABA ties to existing ReLODE base station 0011.

MISCELLANEOUS DETAILS

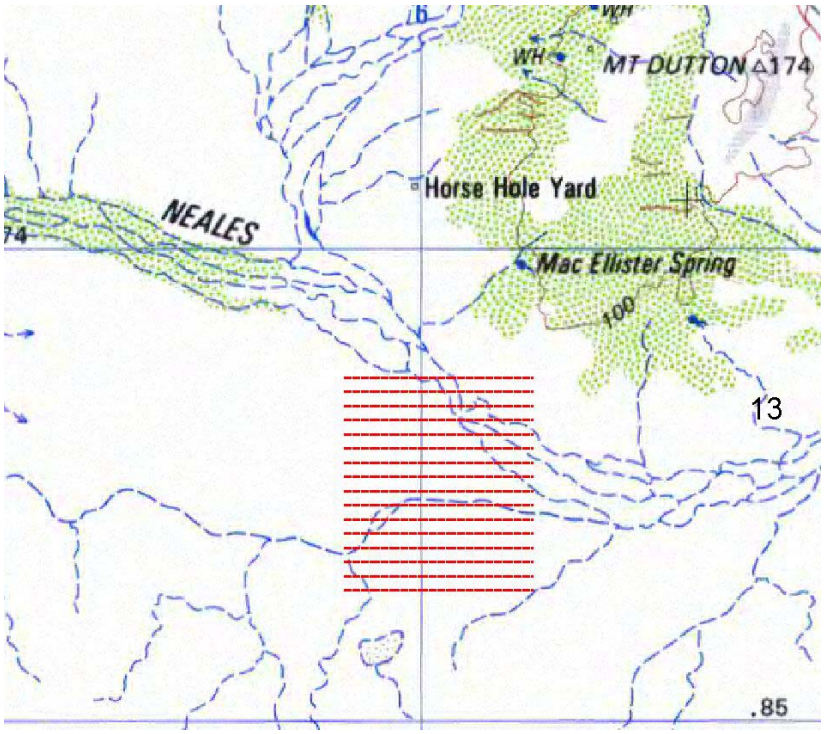
The station is marked with a 0.5m star picket driven into the ground with about 15cm protruding. The station is witnessed by a Daishsat plaque, marked 083, attached to a steel star picket.



Photo of GPS Gravity Base 0083 with distinguishing features in background.

APPENDIX E
Field Conditions Report

03007 – Borthanna field Conditions Report by Ben Allsopp, Crew Leader.



As can be seen from the topo maps there is a considerable amount of drainage across the northern end of the work area which curves around and travels along the eastern boundary as well. These maps don't represent the extent of the drainage very well and seem to be offset further east than they really are on the ground. As you know I originally was calling it a river (Neales) and its associated flood plain but now have decided its more like a delta as there are forks in the rivers main channel and many little creeks draining into the area.



Andrew Clark from Allendale station said that before we got there they had had 5 inches of rain which I would imagine to be just about a full seasons worth in one hit. On top of that there are three natural under ground springs he said run all year round and have a tendency to trap the odd vehicle, himself included at times. He generally considers the northern bank of the river to be a trouble spot and avoids traveling in the area.. The above picture is taken from the northern most line looking south. As you can see there are salt pans on this side of the river then dense vegetation around the delta until finally K's away in the distance you can see the typical gibber plain type of stuff.

Surveying the four most northern lines was extremely difficult, with mag completed partially on some of the lines, and gravity not completed at all. The magnetics was done prior to heavy rain in the area but the later heavy showers made it almost impossible to access the lines via vehicle to do the gravity. Walking the lines would not have been viable as most of the area was very muddy and we weren't prepared to cross the creeks and wash outs with a $60,000 instrument.

The whole survey turned out to be more difficult than anticipated by both client and contractor. The survey area was definately not flat and driveable, with much of the area covered by trees. The difficult terrain and sporadic heavy rain caused a lot of down time in production.

The photos and descriptions below depict the conditions experienced throughout the area:



As can be seen above and below this mounded flood plain area was not suitable for driving the vehicle around, besides the fact that it was wet. This meant we had to walk around about 6 km's worth of line to get back to the vehicle each time. As you can image walking in this terrain was also difficult walking up and down these mounds all the time. The large variations in height around stations also made me very wary of choosing gravity stations and making sure the GPS was right.



Above is a further example of why it was not possible to drive through the area as walking would end up being quicker.



Vehicle has found a hidden natural spring which required about 4 hours to recover her from. In the bottom of the picture you can see that it appears dried up and we had spent a lot of time traveling over similar stuff without problems but apparently out here you can have up to 2 feet of crust floating on mud that seems solid when on foot but will give way when you put 2 tonne on top.



Close up of the contrast between the dry and wet areas.



Example of making our way around on foot doing the mag work. At times you would work your way down a line only to find that you had pretty much just climbed up onto an island between forks in the river having to walk around in a big loop looking for a crossing that turns out to be the same one you use to access the area in the first place.





Example of the amount of water in one of the main channels. To access some areas it was necessary to remove your boots to stroll through the water and mud.



Example of the soft mud in the side channels that you could lose your boots in.





Vehicle bogged up the northern end.



Example of vegetation found throughout the survey area.

Appendix 3

Listing of accompanying digital files

List of accompanying digital files

EL2936_2004_A_01_ReportBody.pdf
EL2936_2004_A_02_gmagnetics.dat
EL2936_2004_A_03_gravity.dat
EL2936_2004_A_04_gmag_grids.ers
EL2936_2004_A_05_gmag_grids
EL2936_2004_A_06_gmag_VD_grids.ers
EL2936_2004_A_07_gmag_VD_grids
EL2936_2004_A_08_gravity_ahd.ers
EL2936_2004_A_09_gravity_ahd
EL2936_2004_A_10_gravity_bg267.ers
EL2936_2004_A_11_gravity_bg267
EL2936_2004_A_12_gravity_bg267_vd.ers
EL2936_2004_A_13_gravity_bg267_vd
EL2936_2004_A_14_gravity_image.gif
EL2936_2004_A_15_gmagnetics_image.gif
EL2936_2004_A_16_FilelListing.txt

ANNUAL TECHNICAL REPORT

Exploration Completed on Oodnadatta Project

For the Period 26th April, 2004 to 25th April, 2006

E.L. 2936

Tenement Holder – Integra Mining Ltd

A.B.N. 54 093 278 436

Operator and Holding Company – Integra Mining Ltd

A.B.N. 54 093 278 436

Author – Bill Clayton

Integra Mining Ltd
168 Stirling Highway
Nedlands Perth WA

Copy 1 **Integra Mining Limited Perth**
Copy 2 **PIRSA Adelaide**

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2	Oodnadatta Project Target Location Plan
3	Regional Magnetic Map for the Oodnadatta Project, showing target areas
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1 Application for PACE funding, November 2005 – Integra Mining Limited

2 Heritage Clearance Survey Report – Fitzpatrick and Wood

1.0 SUMMARY OF EXPLORATION ACTIVITIES

E.L.158/2936 was granted on the 26th April 2002 to ReLODE Ltd., ReLODE underwent a change of company name to Integra Mining Ltd. in 2004.

Exploration activities for the current period are summarised in the six monthly reports for the periods ending 25th October 2004 to 25th April 2006. An exemption from the requirement to submit an annual report was requested for the 2005 reporting period as no field exploration had been carried out.
Although no exploration has been completed on the tenement since the Borthanna detailed ground gravity and magnetic survey conducted in 2003, Integra have been working consistently towards drill testing this target. In the preceding 12 month period Integra have applied for PACE funding (the application was successful in November 2005), located the site of the planned hole and renewed contact with the lessee of Allandale pastoral station, signed the ILUA with the Arabunna traditional owners and conducted a heritage clearance survey over the area of the drill site. Following the signing of the ILUA Integra sought to engage a suitable drilling contractor to complete the hole. Locating a drilling contractor with the necessary experience and qualifications for drilling within the Great Artesian Basin proved difficult due to the current intensity of exploration and development drilling and a shortage of qualified contractors, the fact that the program is of small scale (initially a single hole test) and seasonal factors relating to climatic conditions. After a lengthy delay Underdale Drillers were engaged and the hole is scheduled to commence in May 2006.

Keywords

South Australia, Proterozoic, Gawler Craton, Gold and Copper, Exploration, Oodnadatta, Peake and Denison.

2.0 INTRODUCTION

The Oodnadatta project was selected as an area with the potential to host Iron-Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The Oodnadatta project is situated on the northern margin of the Gawler Craton adjacent to the northern tip of the Peake and Denison Inlier. Outcrop is limited to small areas of Proterozoic bedrock that are surrounded by extensive expanses of Mesozoic sediments that comprise the Great Artesian Basin.

2.1 Tenure Details

Exploration Licence 158/2936 was granted on the 26th April 2002 to ReLODE Limited and comprises an area of 1,655 km^2 (Figure 1). The tenement is managed by Integra Mining Limited and expires on 25th April 2006 (an application for an extension of term has been lodged). The annual expenditure commitment is $145,000.

2.2 Location and Access

The Oodnadatta project is situated 80km south of the township of Oodnadatta in central north of South Australia (Figure 2). The area is accessed by the dry

weather Oodnadatta to William Creek road and then via station tracks to the work areas.

2.3 Previous Exploration

Previous exploration has been confined to ground based gravity and magnetic surveys in the SE of the project area and limited drilling campaigns generally targeting groundwater and coal/gas reserves. Three diamond drillholes were completed by ReLODE to test interpreted coincident magnetic/gravity anomalies at the Ockenden and Toondina prospects. The result of the geophysical programs and subsequent geochemical prospecting and drilling of these prospects was reported in Derriman, (2003).

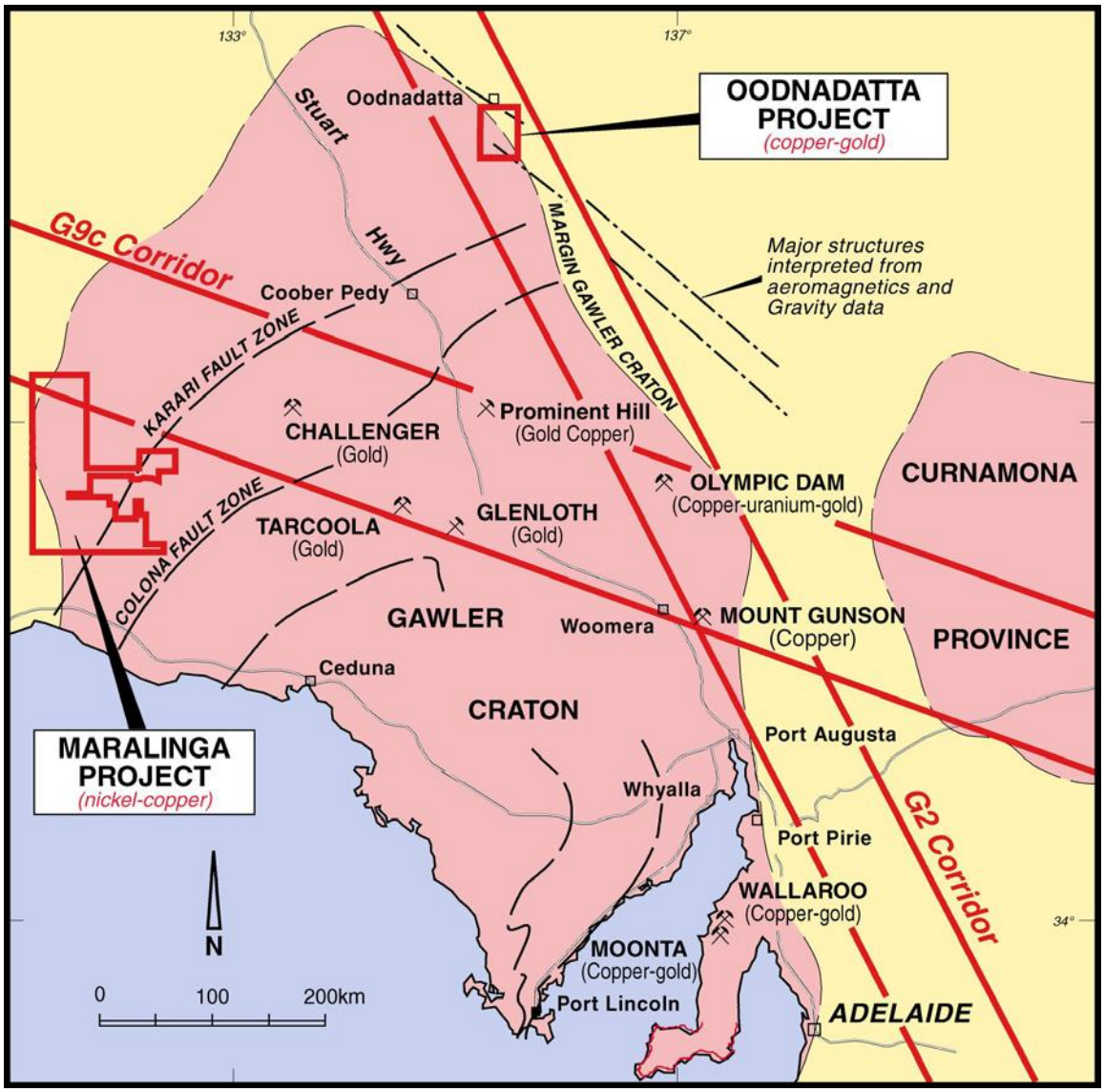


Figure 1 – Gawler Craton Tenement Location Plan

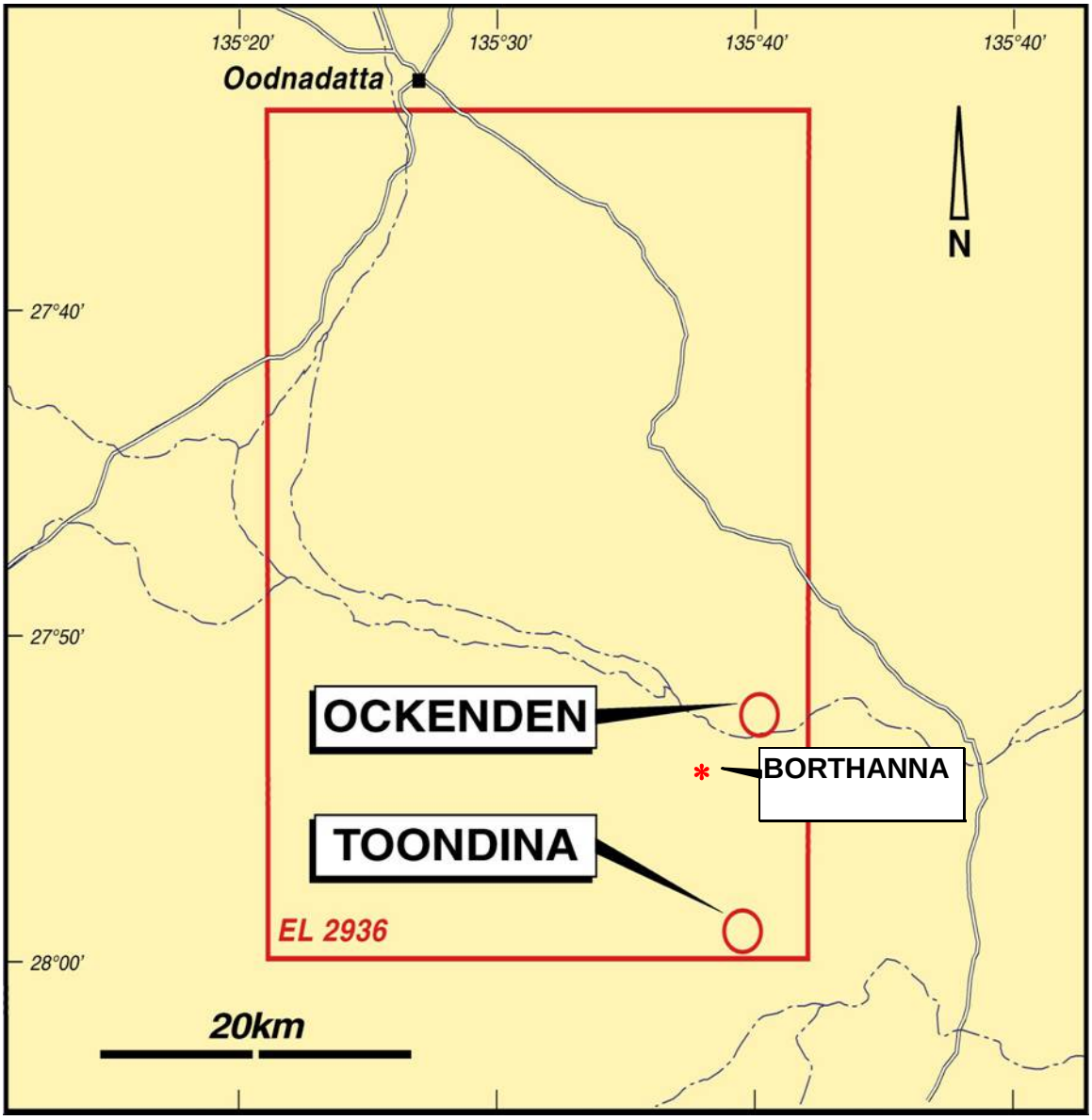


Figure 2 – Oodnadatta Target Location Plan

2.4 Exploration Rationale

The Oodnadatta project was selected as an area with the potential to host Iron Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The criteria used in the area selection included proximity to craton scale structures, discrete coincident magnetic and gravity highs (Figure 5 and 6), margin of "magnetically active" domains and regional scale alteration. The details of the target selection and modeling process have been included in previous annual reports.

3.0 GEOLOGY

3.1 Regional Geology

The Oodnadatta project is situated on the northern margin of the Gawler Craton and adjacent to the northern edge of the Peake and Dennison Inliers. The Peake and Dennison Inliers include outcrops of Palaeoproterozoic metamorphic basement that is intruded by granitic and mafic rocks of Palaeoproterozoic and Mesoproterozoic ages. The bulk of the Peake and Dennison Inliers is made up of a very thick sequence of Palaeoproterozoic sediments and volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks during the Kimban Orogeny. Evidence of granitic intrusions of "Hiltaba Suite" age (Wirriecurrie Granite) within the Peake and Denison Inlier and historic mining of copper associated with structurally controlled quartz-haematite veining (Copper Top mine) and uranium (Algebuckina), Ambrose and Flint, (1979), suggests that the region was part of a widespread haematite alteration and mineralising thermal event on the eastern margin of the Gawler Craton.

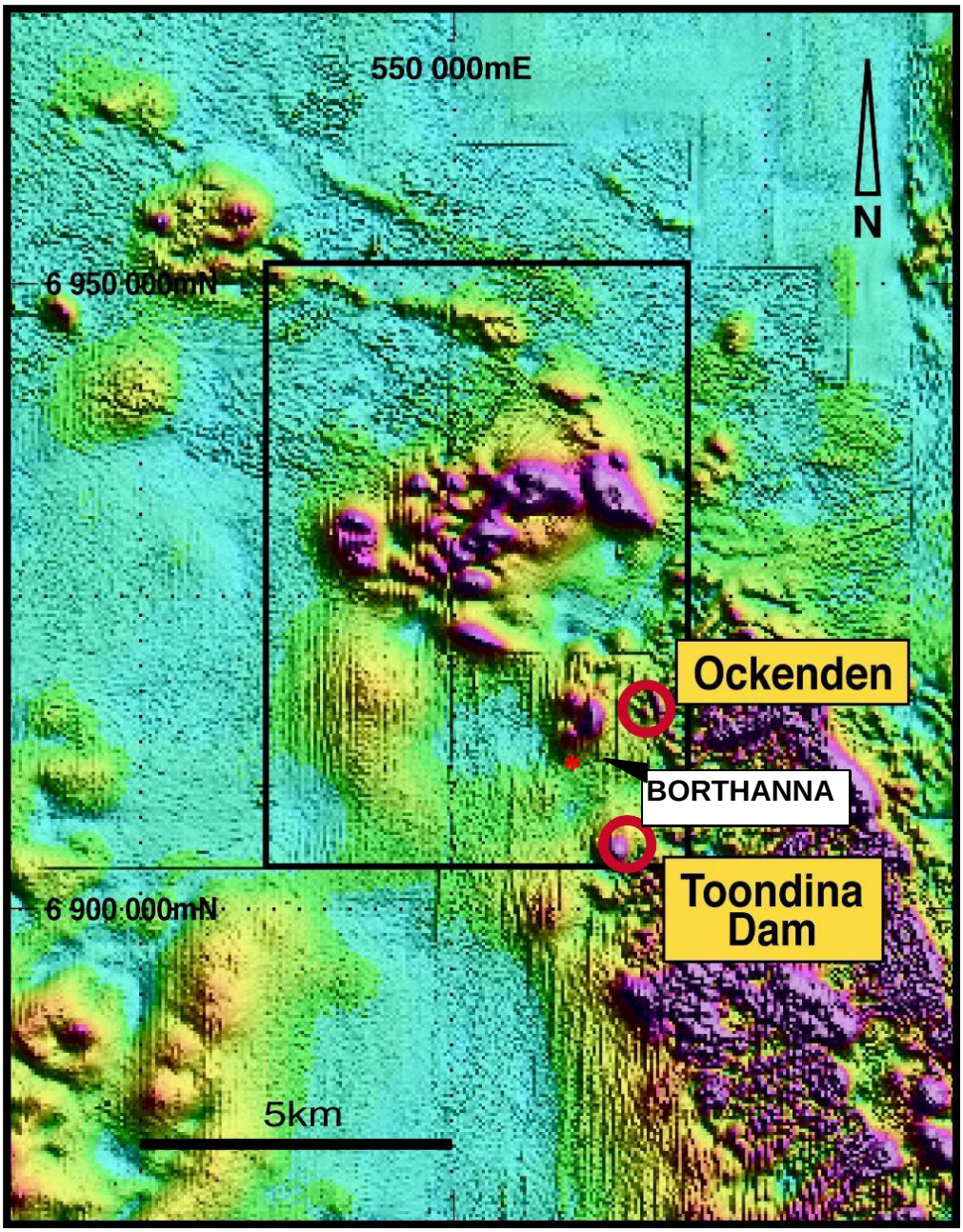


Figure 3 –Oodnadatta Regional Magnetics showing targets

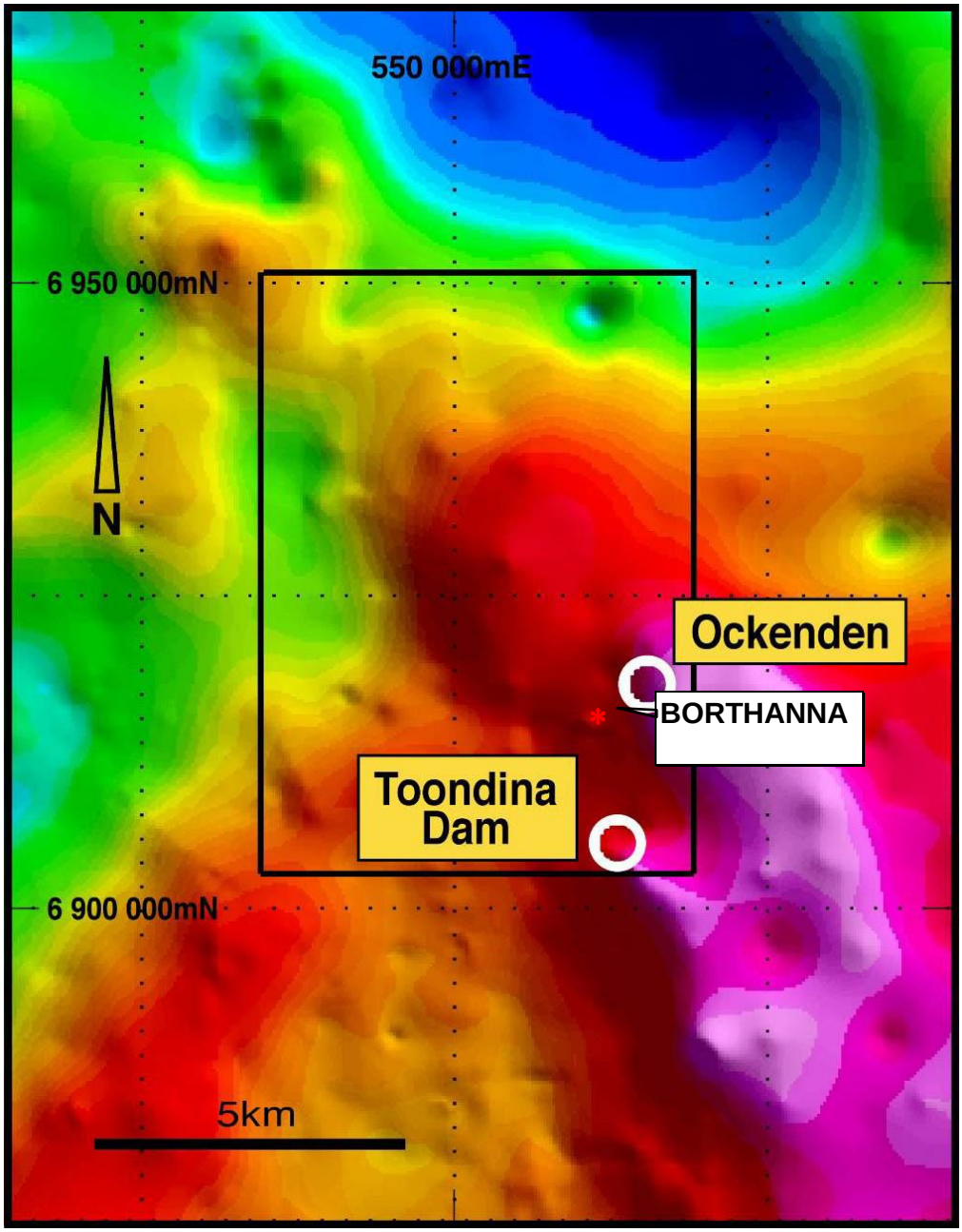


Figure 4 – Oodnadatta Regional Gravity showing targets

3.2 Project Geology

The surface geology is dominated by extensive areas of flat lying Mesozoic Bulldog Shale, a grey shale unit with bivalve molluscs and gypcrete partings. In the north of the tenement the Bulldog Shale is overlain by remnants of a much more extensive Tertiary land surface comprising pisolitic and ferruginous sand and sandy conglomerate of the Doonbara Formation.

To the east and south of the tenement two Neo-Palaeoproterozoic inliers outcrop at Mount Dutton and Algebuckina Hill. At Mount Dutton the Neoproterozoic Curdimurka Subcrop occurs as siltstone, sandstone and dolomite while 15km to the SE at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

Drilling at Toondina Dam and Ockenden has resulted in the following generalised stratigraphic sequence.

Depth (m)	Formation	Lithologies	Age
0–50	Bulldog Shale	Grey shale with gypcrete	Mesozoic
50–100	Algebuckina Sandstone Cadna-Owie Formation	Sandstone and siltstone	Mesozoic
100–250	Cadlareena Volcanics (equiv.)	Basaltic Andesite	Neoproterozoic
250–?	Unnamed	“Orthoamphibolite” “Granodiorite”	Palaeoproterozoic

The Algebuckina Sandstone and Cadna-Owie Formation are aquifer-bearing units of the Great Artesian Basin and at the Ockenden target water pressures to 39psi were recorded.

4.0 EXPENDITURE STATEMENT

The following table summarises the expenditure incurred over the reporting period for EL 158/2936.

Integra Mining Limited
Expenditure on Tenement 158/2936
From 26th April 2005 to 25th April 2006

Details	$ (Excl GST)
Logistics	12,555
Administration and Overheads	66
Aboriginal Heritage and Native Title	13,994
Licence Renewal & Rental Fees	4,265
TOTAL	**$30,880**

REFERENCES

Ambrose, G. J. and Flint, R. B., 1979, Precambrian and Palaeozoic Geology of the Peake and Denison Ranges. Department of Mines and Energy, South Australia. Rept. Bk. No. 79/19, 129pp.

Derriman, M.,2003, Exploration completed on the Oodnadatta Project for the period 26th April 2003 to 25th April 2004. EL158/2963. Unpublished report to Department of Primary Industry and Resources South Australia (PIRSA). ReLODE Ltd.

APPENDIX 1
APPLICATION FOR PACE FUNDING

Government of South Australia

Primary Industries and Resources SA

DRILLING COLLABORATION BETWEEN PIRSA AND INDUSTRY

Round 3 - 2006

PROJECT PROPOSAL MINERAL EXPLORATION

PROJECT TITLE	**Oodnadatta Project (Borthanna)**
PROJECT PROPONENT	**Integra Mining Ltd**
EXPLORATION LICENCE NO.	**EL158/2936**
EXPLORATION LICENCE OPERATOR	**Integra Mining Ltd**
EXPLORATION LICENCE HOLDER	**Integra Mining Ltd**

SUMMARY PROJECT DESCRIPTION

Exploration for Proterozoic IOCG-style mineralisation in the Peake and Denison Inlier. Target generation defined three magnetic/gravity anomalies. One of these, the Toondina Dam target was tested with two diamond drill holes. Both holes reached Proterozoic basement showing evidence of haematite alteration (felsic volcanics and altered amphibolite intruded by granite) but returned negative assay results. The magnetic anomaly was attributed to magnetite within overlying andesites (Cadlareena Volcanics equivalent). The gravity source was not identified.

Detailed ground magnetic and gravity surveys were then completed over another target (Borthanna). These defined a coincident gravity and composite magnetic anomaly with the following characteristics:

Gravity body with estimated depth to top of 216m, density contrast of 0.3 to 0.4 g/cc and dimensions of 735m x 200m x 1520m depth extent.

Magnetic body #4 with estimated depth to top of 270m , magnetic susceptibility of 0.04SI units, having a close spatial association with magnetic body #2 with a magnetic susceptibility of 0.41 SI units and estimated depth to top of 724m.

The Borthanna target is modelled as a relatively shallow gravity anomaly associated with a deeper, strongly magnetic source.

FULL PROJECT DESCRIPTION *Please attach a full project description including: aims, geological setting and relevant geoscientific supporting data. Attachments must include a geological plan and predictive cross section*

NUMBER OF HOLES PROPOSED	**1**
ESTIMATED METRES TO BE DRILLED	**450m**
DRILLING METHODS	**Mud rotary to 240m, diamond core (NQ2) to 450m**
ESTIMATED TOTAL DRILLING COSTS *(Direct drilling costs only; specify if exclusive or inclusive of GST)*	**$95,820** (based on past experience, excluding GST)
FUNDING GRANT REQUESTED FROM PIRSA	**$47,910** (excluding GST)

ESTIMATED PROJECT START DATE AND DURATION
Proposed commencement January 2006, 20 days duration

WHAT OUTPUTS WILL BE DELIVERED? *(Note: all OUTPUTS will be required in PIRSA Mineral Exploration Reporting Guidelines format including requirements for submission of digital data)*
Outputs will include all geological and geochemical data in digital format. Full access to core for scientific purposes will be granted.

WILL A SHORT PERIOD OF CONFIDENTIALITY BE REQUIRED FOR DRILLING RESULTS & PROPOSAL CONTENTS *(Maximum 3 months after final report delivery)*
Yes
If yes, what length will this period be?
3 months

LAND ACCESS
(Detail progress of access requirements)

- Native Title and heritage issues.

Integra Mining is a signatory to the Arabunna ILUA and is currently requesting a heritage clearance survey over the area of advanced exploration activity.

- Landowner issues.

Contact has been re-established with the lessee of Allandale Station. Working relationships in the past have been cordial and Integra Mining will adhere to the principles of PIRSA's *Liaison Guidelines for Landholders and Mineral Explorers in South Australia.*

- Exploration Work Approval (EWA) or Declaration of Environmental Factors (DEF)

Exploration Work Approval has been submitted to PIRSA. Copies of all the related correspondence are appended to the application document.

RISK ANALYSIS *(list potential risks, eg drill availability, land access etc, and record consequence and proposed management of each)*
1-Geological Risk:
Due to limited information the geophysical interpretation used in the generation of the target may be inaccurate. The target is based on the best information available and is believed to represent a valid regional exploration target.
2- Operations Risk:
It is likely that drilling will intersect the artesian aquifer, necessitating time consuming drilling practices to control water flow. This has been taken into account in determining the estimated costs. The use of experienced drilling contractors and local knowledge will minimise drilling delays – drilling time and costs will be analysed continually to determine the progress relative to budget.
The drilling will be carried out under conditions of contract, failure to complete the hole, or time delays due to inadequate performance of the contractor (not ground conditions) will result in notice to the contractor of inadequate performance and negotiation on costs to that point.
3-Water containment:
High water flows may be expected in the precollar, adequate containment must be completed prior to the commencement of drilling.
4- Environmental rehabilitation:
Site access and preparation should require minimal disturbance. Sumps will need to be excavated. Site preparation and rehabilitation methods will be in accordance with PIRSA's *Environmental Guidelines for Mineral Exploration Activities in South Australia.*

PROJECT PROPONENT ACN	
PROJECT PROPONENT ABN	**54 093 278 436**
PROJECT PROPONENT REGISTERED FOR GST? *Yes/No*	**YES**

PROPONENT CONTACT DETAILS FOR CORRESPONDENCE
Please include both a postal and street office address, contact phone number and email address.

Mr Chris Cairns
Integra Mining Limited
PO BOX 612
NEDLANDS WA 6909
168 Stirling Highway
NEDLANDS WA 6009
Telephone: 08 9423 5920
Email: chris@integramining.com.au

SIGNATURE OF PROPONENT

A Clayton. for Chris Cairns.

DATE:

2nd November 2005.

PIRSA Use Only

DATE RECEIVED _____

RECEIVED BY _____

DATED CONFIRMATION OF RECEIPT BY PROJECT COORDINATOR

_____

PROPOSAL NO. _____

APPLICATION FOR FUNDING - PIRSA COLLABORATIVE DRILLING PROGRAM

SUBMITTED BY

INTEGRA MINING LTD
FOR

E158/2936

168 Stirling Highway Nedlands Western Australia 6009 ▯ PO Box 612 Nedlands WA 6909
T 61 (8) 9423 5920 ■ **F** 61 (8) 9423 5930 ■ **E** info@integramining.com.au ■ **W** www.integramining.com.au

ABN 54 093 278 436

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Appendix 3 - Heritage Survey Clearance Request
Appendix 4 - Lindeman Geophysics Memorandum, Results of Ground Geophysical Survey, Borthanna Project, Oodnadatta EL.

INTEGRA MINING - COMPANY BACKGROUND

Integra Mining is an ASX-listed, Perth-based exploration company. The company listed as ReLode Limited in August 2001 with a portfolio of tenements and exploration projects dominantly in central South Australia and the Musgrave region and a strategy to explore for world-class Ni-Cu-PGE and IOCG deposits.

In 2004, the company underwent a change of management and transformation of its strategy to focus on accumulating advanced gold projects in the eastern goldfields of Western Australia, at the same time retaining key tenements that matched its risk and investment criteria. The company was renamed Integra Mining Limited and is now positioned to become a gold producer in the near future.

BORTHANNA DRILL TARGET - KEY FEATURES

SUMMARY

The Borthanna target is a regional coincident magnetic / gravity feature. Follow-up ground magnetics and gravity surveys have refined and confirmed the significance of coincident magnetic and gravity anomalies with strong 'Olympic Dam' IOCG affinities. The target depth to top is between 200 metres and 270 metres and is considered easily amenable to drill testing.

Should drill testing of this target result in discovery, it would significantly expand the extent of the prospective eastern margin of the Gawler craton by some 350km to the north of the Olympic Dam deposit.

Integra Mining Limited respectfully requests that PIRSA consider co-funding the proposed drill hole under the PACE initiative.

APPROVALS

Integra is committed to testing the Borthanna target and over the past six months, in preparation for resuming activity on E2936, has:

- become a signatory to the Arabunna ILUA
- conducted a site visit to the drill target and re-established contact with the lessee of Allandale Station
- submitted an EWA to PIRSA to gain authorisation for the drilling program and
- requested a Heritage Clearance Survey be completed over the area of the proposed program.

LOCATION

The Borthanna gravity - magnetic anomaly is located within the magnetically active north eastern margin of the Gawler Craton. The Peake - Denison Domain is under explored and represents a potential new mineral province. This potential is demonstrated by the large area currently under exploration licence to both major and junior base metal explorers.

The target is in close regional proximity to regional mineral occurrences of copper, gold and associated haematite/magnetite alteration and magmatism of Hiltaba Suite age e.g. Wirriecurrie Granite within the Peake - Denison Domain.

STRUCTURE

Dominant NW-trending faults form the margins to the Peake - Denison Inlier and are prominent in the regional aeromagnetic data and coincident with the O'Driscoll G2 gravity lineament. In addition, a 045○ trending set of gravity and aeromagnetic anomalies are visible within the exploration licence, these structures have been identified as important features in the development of magmatic/hydrothermal breccia systems elsewhere in the Gawler Craton. The residual gravity anomaly at Borthanna also shows evidence of a NNE orientation.

GEOPHYSICAL SIGNATURE

Detailed magnetic and gravity surveys have identified a 0.8mgals residual gravity response associated with a deeper magnetic anomaly. Depth to top of the gravity anomaly has been modelled as 216m. The geophysical response shows a strong similarity with that of Olympic Dam, where the gravity response is located above a strong magnetic response. The presence of a deeper magnetic anomaly indicates that the magnetic response is unlikely to be related to the Neoproterozoic felsic volcanic sequence.

1. OODNADATTA EXPLORATION LICENCE E158/2936 – PROJECT SYNOPSIS

E158/2936 covers an area of 1,655 sq. km., and is located immediately south of the town of Oodnadatta in central South Australia. The tenement was granted to ReLODE Ltd (subsequently re-named Integra Mining Ltd) on 26th April, 2002. Exploration for IOCG – style mineralisation commenced in 2002 with a review of public domain data, followed by a drilling program to test two targets.

1.1 Exploration Rationale

The Oodnadatta Project was selected as an area with the potential to host Iron Oxide Cu-Au (IOCG) mineralisation similar to Olympic Dam and Prominent Hill. The criteria used included proximity to craton scale structures, discrete coincident magnetic and gravity highs, margin of "magnetically active" domains and regional scale alteration. Douglas Haynes Discovery Pty Ltd and Lindeman Geophysics Pty Ltd were contracted to assist in the target selection stage and provide ongoing analysis of results generated. Both consultants have extensive experience in the type of deposit being sought.

1.2 Regional Geology

The Oodnadatta Project is situated on the north eastern margin of the Gawler Craton and adjacent to the northern edge of the Peake and Dennison Inliers. The Peake and Dennison Inliers include outcrops of Palaeoproterozoic metamorphic basement which is intruded by granitic and mafic rocks of Palaeoproterozoic and Mesoproterozoic age. The bulk of the Peake and Dennison Inliers are made up of a very thick sequence of Neoproterozoic sediments and basal volcanics which were

deformed and intruded by intermediate and basic igneous and volcanic rocks and diapiric structures during the early Palaeoproterozoic Delamerian Orogeny.

1.3 Project Geology

The surface geology is dominated by areas of flat lying Mesozoic Bulldog Shale containing bivalve mollusc fossils and gypcrete partings. In the north of the tenement the Bulldog Shale is overlain by remnants of a much more extensive Tertiary land surface comprising pisolitic and ferruginous sand and sandy conglomerate of the Doonbara Formation.

To the SE of the tenement two Neo- and Palaeo-Proterozoic inliers outcrop at Mount Dutton and Algebuckina Hill. At Mount Dutton the Neo-Proterozoic Curdimurka Subgroup occurs as siltstone, sandstone and dolomite, while 15km to the SE at Algebuckina Hill there is an outcrop of an unnamed Palaeo-Proterozoic sequence comprising biotite-sericite schist, gneiss, quartzite and pegmatite.

1.4 Geological Model

The Peake and Denison Domain lies on the north eastern margin of the Gawler Craton, immediately north of the Olympic Domain, host to the giant Olympic Dam Cu-Au-U deposit, and is considered highly prospective for additional occurrences of IOCG-style mineralisation. The empirical predictive criteria for IOCG-style mineralisation were used to evaluate the region using PIRSA's regional aeromagnetic and gravity data.
The key regional criteria were

- Situated on the margin of a magnetically-active domain adjacent to the Olympic Cu-Au province (i.e. the Peake and Denison Inlier);
- The presence of a regional gravity anomaly possibly related to deep ultramafic-mafic-intermediate intrusives, that could have contributed to local high heat flow;
- Discrete magnetic anomalies possibly related to magnetite/haematite alteration associated with mineralised systems;
- Evidence of oxidising and/or reducing fluids with magnetite destructive or magnetite additive alteration expressed in regional magnetic data;
- Proximity of Hiltaba Suite (1595 - 1575Ma) granites or equivalent;
- Locally, it was noted that in the northeastern, exposed parts of the Peake and Denison Inlier regional NNW and NW faults contain Fe-oxide bearing quartz veins with disseminated copper sulphides. The mineralised faults are expressed in the aeromagnetics as linear anomalies. Elsewhere these high amplitude linear magnetic anomalies may be related to similar mineralisation or to prospective zones of intense albite-magnetite-actinolite-chlorite alteration, as observed immediately east of the Inlier.

1.5 Work Completed

The preliminary work involved inversion modelling of the PIRSA magnetic and gravity data to determine the depth to the source of the identified anomalies. Three target areas requiring further investigation were selected on the basis of similarity to the IOCG predictive model. The characteristics of each of the three target areas are described briefly:

- **Allandale** – A NE trending ~6mgal Bouguer anomaly with complex magnetic anomalies on its NW margin. The area of interest included the peak of the gravity anomaly and an adjacent EW trending magnetic anomaly. The NE orientation of the magnetic and gravity anomalies is believed to be related to the development of major faults that play a significant role in the genesis of Olympic Domain IOCG deposits. Modelling revealed the depth to source of the magnetic anomaly to be greater than 530m. No further work has been carried out at this stage.
- **Borthanna** – a coincident NNW-trending ~ 6mgal Bouguer anomaly and associated magnetic anomaly with a predominant north trend. Three discrete magnetic sources were modelled for the Borthanna target; the shallowest has a depth to top of 588m. A single line of gravity readings that cross the project area was noted and generally the gravity data for the area was poor. Further work then focused on the remaining shallower target.
- **Algebuckina/Toondina Dam** – The Algebuckina target was interpreted as a coincident magnetic anomaly and ~4mgal Bouguer anomaly situated on the northern end of a basement gravity ridge. Magnetic modelling identified two main sources; a large strongly magnetic body with a depth to top of 730m and a second, smaller body having a relatively low magnetic susceptibility and a depth to top estimated as 156m. The magnetic bodies are coincident with the termination of a NW- trending Bouguer gravity anomaly. The shallow target was named the Toondina Dam target. A program of detailed ground magnetics and gravity surveys was completed to improve the target definition. Modelling of the detailed magnetic data identified two separate bodies, with depths to top of 320m and 210m, as the source of the Toondina Dam anomaly. However, modelling was impeded by the strong magnetic response from anomalies to the NW and SE. Gravity data could not be modelled effectively owing to the proximity of the southern tenement boundary. The Toondina Dam targets were subsequently tested by diamond drill holes TNA001 and TNA002. Both holes intersected Neo-Proterozoic basement at a depth of approximately 100m. Flat-lying andesitic lava flows of the Cadlareena Volcanics (equivalent) unconformably overlie biotite-altered, gneissic amphibolite which is intruded by numerous granite gneiss dykes. Within the andesites and granite there is evidence of background haematite alteration, however the absence of haematite-stained sericite or K-feldspar, carbonate veining and ore minerals suggested that the drill holes were not proximal to significant IOCG mineralisation. The source of the magnetic anomaly was attributed to magnetite within the Cadlareena Volcanics equivalent. Down hole magnetic surveys failed to locate any off-hole magnetic source. The source of the gravity anomaly was not identified, but one possibility is the presence of a deep crustal mafic-ultramafic parent to the amphibolites noted in the Palaeo-Proterozoic basement.

1.6 Borthanna Target

Following the drill testing of the Toondina Dam target the characteristics of the Borthanna target were assessed in more detail. A detailed ground magnetic and gravity survey was completed over an area of 18.4 sq. km. covering the target. Using the ground magnetic data, the three magnetic models identified from the aeromagnetic data resolved into four models, with depths to top of between 270m and 1,297m. The gravity data revealed a residual gravity response associated with magnetic bodies #2 (724m) and #4 (270m). The gravity data was then modelled, yielding a model with the following characteristics:

Estimated Depth to Top	Density	Regional Gravity	Residual Gravity	Dimensions
216m	0.327g/cc	7mgal	0.8mgal	735m x 200m x 1520m depth extent

Borthanna is a well-defined target that is believed to offer potential for the discovery of IOCG-style mineralisation in this under explored region. It is characterised by coincident gravity (with a residual Bouguer gravity response of 0.8m gals) and magnetic anomalies. The gravity body has a density contrast of 0.3 – 0.4 g/cc, a modelled depth to top of 216m and a depth extent of more than 1500m. The magnetic modelling indicates that the lower half of the body is very magnetic (0.41SI units susceptibility) and that the gravity response is located above the magnetic response, a characteristic shared with the Olympic Dam deposit. Importantly, the source of the magnetic anomaly is unlikely to be related to a shallow, Proterozoic basement volcanic sequence. At the modelled depths this target is considered to be amenable to drill testing.

2. DRILLING PROGRAM AND BUDGET

A single hole is proposed as an initial test of the gravity target. The geology of the site is not well constrained due to the lack of drill hole information in the near vicinity and the variable thickness of Mesozoic sediments in the region. Multiple aquifers of the Great Artesian Basin are anticipated within the upper units of the Mesozoic cover, necessitating the use of mud rotary drilling equipment and suitably experienced and qualified (Class 3) drilling contractors for the precollar. Precollar depth is expected to be 200+m. The precollar will be pressure cemented and lined with steel casing to isolate and contain the artesian aquifers. The hole will be completed with a diamond tail using NQ2 drill rods. Final depth will be dependent on geological conditions.

2.1 Drilling Budget

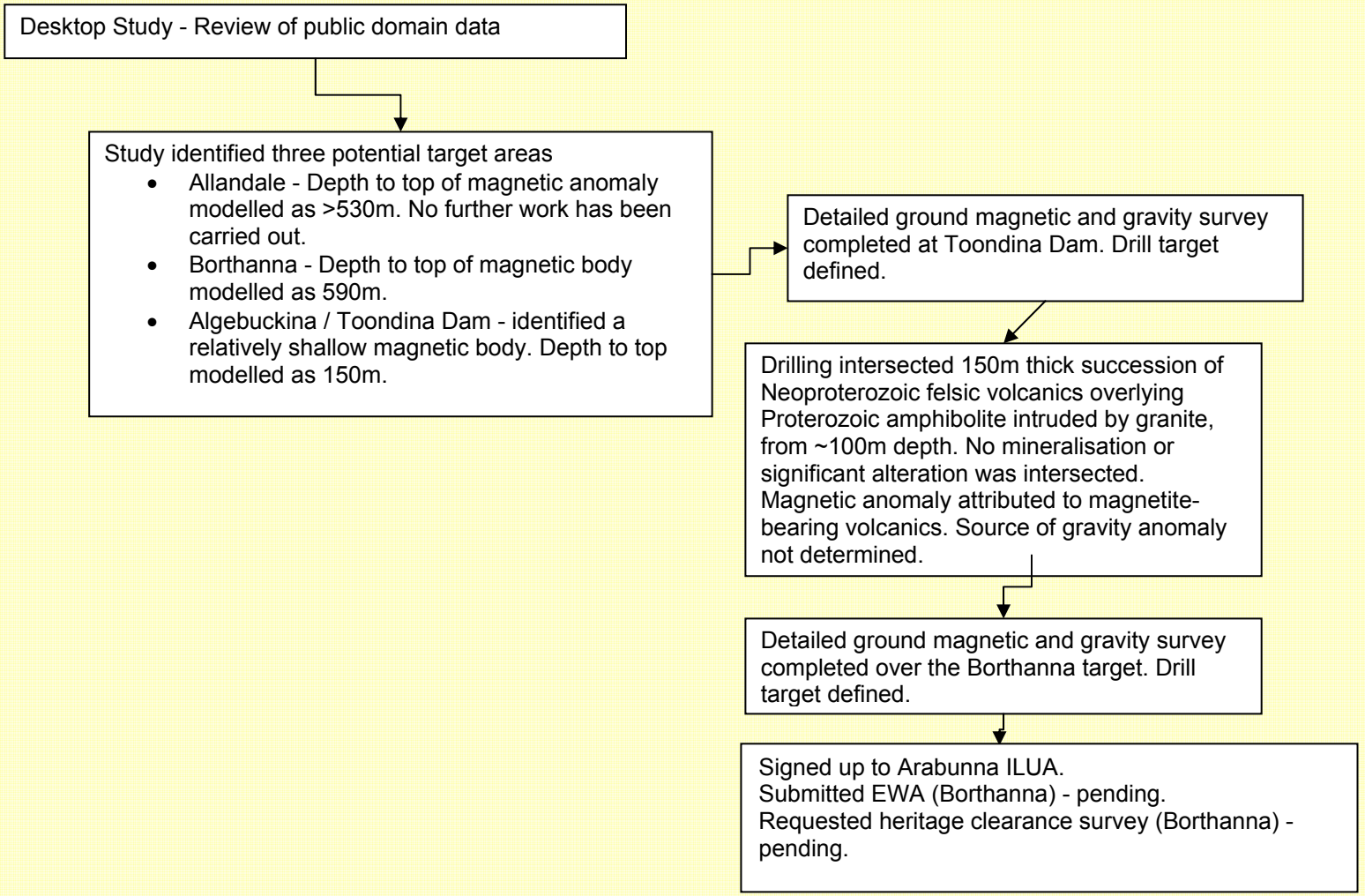
Contractor: TBA

Mobilisation/ Demob.	$12,000
80m rotary drilling/collar casing/cement @ $150/m	$12,000
160m rotary drilling/casing/cement @ $120/m	$19,200
210m NQ2 diamond drilling @ $100/m	$21,000
Down hole (Eastman) surveys @ $70/survey x 16	$1,120
Extra man supplied for water carting @ $300/day	$6,000
Consumables	$10,000
Rig working Rate @ $300/hr x 15hrs	$4,500
Contingencies	$10,000
Total	**$95,820**

Table 1 – The Borthanna Target

Target Area	Target Type	Target Depth	Geology	Geophysics	Local information
Mapsheets 250k - SG5315 Oodnadatta 100k - 6042 Algebuckina Location: 6914500N 560700E	Gawler Craton Proterozoic IOCG – style mineralisation, Key features include: • Oxidizing and/or reducing fluids giving a characteristic magnetic signature (haematite / magnetite and Fe-sulphides); • Adjacent or spatially associated Bouguer gravity anomaly due to the presence of deep mafic/ultramafic rocks or from the mineralisation / haematite alteration itself. • Faulting, active at the time of magmatism and mineralisation. NW-NNW and NE orientations common.	216 -350m	The Proterozoic geology is concealed by an extensive cover of Early Cretaceous Bulldog Shale and underlying Algebuckina Sandstone (Jurassic) and Mount Toondina Formation (Permian). Drill hole STDS3, located approximately 4km ENE of the target, intersected Proterozoic quartzite of the Peake Metamorphics at 180m.	Ground magnetic and gravity survey was completed. Gravity - 300m line spacing and 60m stations. Magnetics - 300m line spacing and 20m station spacing. The survey defined a coincident gravity-magnetic anomaly. Modelling of the data gave a depth to top of 216 for the gravity source. The associated magnetic anomaly appears to have a deeper, strongly magnetic source.	The target lies within a triangular area bounded by drillholes STD S3, Borthanna 8518 and SDA-15. STDS3 intersected Peake Metamorphics at a depth of 180m. The remaining holes terminated in the cover sequence at depths of 299m (SDA-15, south) and 236m (Bor8518, west). The cover sequence appears to thicken to the west and south of STDS3, indicating a minimum thickness of cover in the vicinity of the target of 180m and a possible maximum thickness of greater than 299m.

FLOW CHART OF EXPLORATION ACTIVITIES



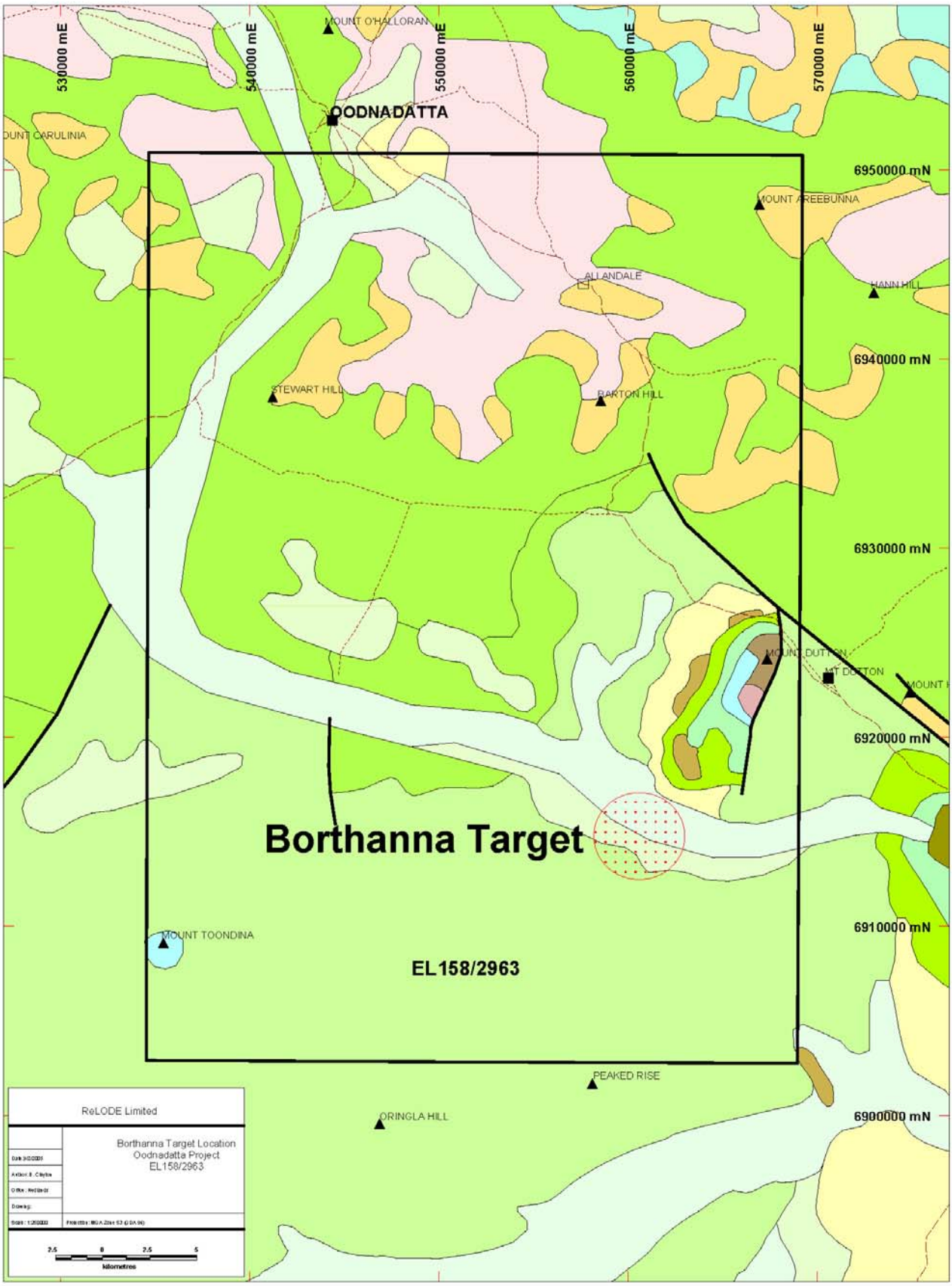


Figure 1 - Location of Borthanna Target and Geology

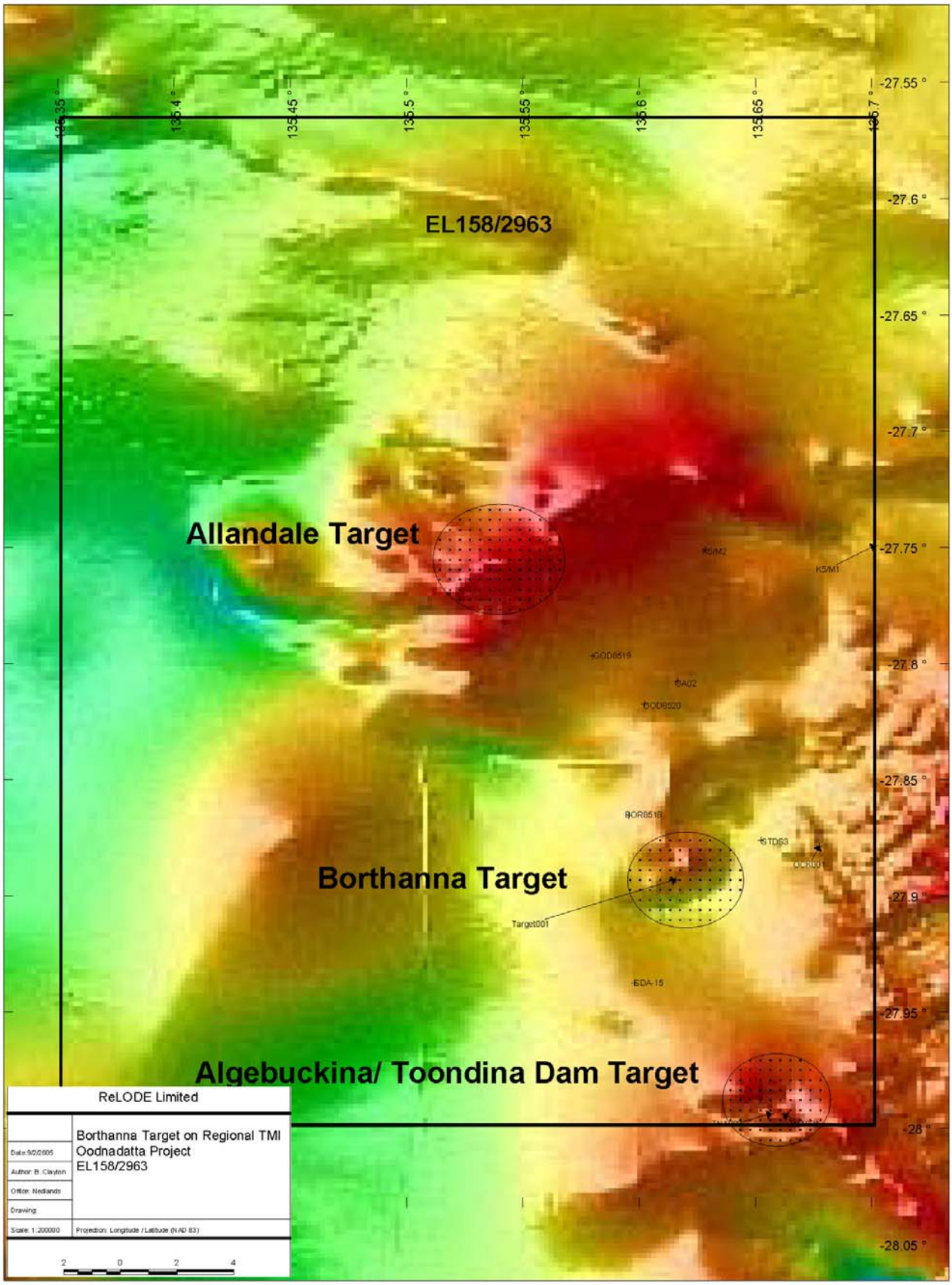
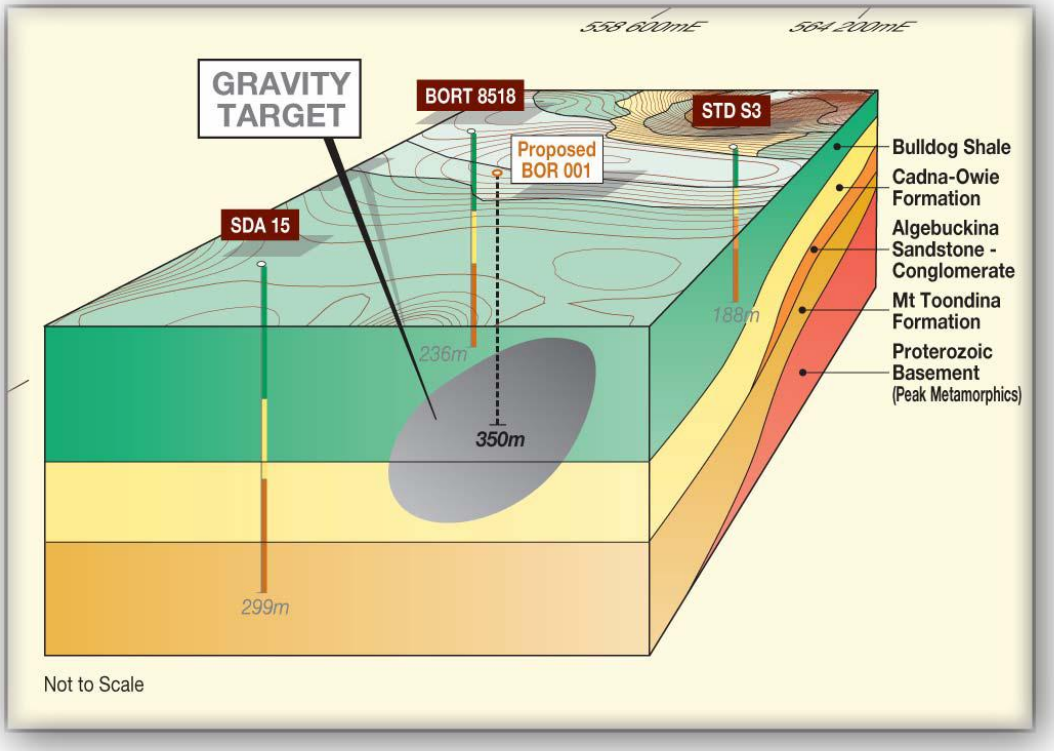


Figure 2 - Location of Borthanna Target and TMI

Figure 3 Borthanna Drill Target



Appendix 1:

ILUA Agreement

Gawler Main File / Gawler Oodnadatta EL 2936.

integra MINING Limited

8 September 2005

Your Ref: 149001/SK/al

Mr Stephen Kenny
Camatta Lempens Pty Ltd
First Floor, 345 King William Street
Adelaide SA 5000

Dear Mr Kenny

ULARAKA ARABUNNA ASSOCIATION INC

I refer to your correspondence dated 30 August, 2005, and your enquiry regarding the program and schedule of work for this property. We are presently in the process of drafting these, and will forward to you upon completion to arrange heritage clearance.

Yours faithfully

Chris Cairns
MANAGING DIRECTOR

168 Stirling Highway Nedlands Western Australia 6009 ■ PO Box 612 Nedlands WA 6909
T 61 (8) 9423 5920 ■ F 61 (8) 9423 5930 ■ E info@integramining.com.au ■ W www.integramining.com.au

ABN 54 093 278 436

Our Ref: 149001/SK/al

Your Ref:

30 August 2005

RECEIVED
BY:

CAMATTA LEMPENS
PTY LTD LAWYERS

Integra Mining Limited
PO Box 612
NEDLANDS WA 6909

Attention: **Chris Cairns**

ABN 34 008 140 332

First Floor, 345 King William Street
Adelaide South Australia 5000
Phone 08 8410 0211
Facsimile 08 8410 0566
DX 54202 Adelaide

Dear Sirs

ULARAKA ARABUNNA ASSOCIATION INC.

Thank you for forwarding the acceptance document and cheque for $7,000.00.

My clients are of course interested in the work you would be undertaking and if you have a plan or work with any time scale, which you could forward to us, we would appreciate it.

This will also enable us to take into consideration your need for clearances.

Yours faithfully
CAMATTA LEMPENS PTY LTD

STEPHEN KENNY
kenny@camattalempens.com.au

Directors
Franco Camatta LLM (Companies & Securities)
Robert Lempens LLB Dip Corp M
Dymphna J Eszenyi BA LLB
Stephen J Kenny LLB

Associates
Mardi Conduit BA (Int St.) (Hons) LLB (Hons) GDLP
Amanda Warley LLB B.BUS GDLP
Stephen Beach BA LLB/LP (Hons)
Andrew Nettlefold BA (Hons) LLB (Hons)
David Li B.Sc (Hons) LLB (Hons) GDLP

Consultant
Terry Groom LLB LLM
Assoc Dip Accounting AUA

www.camattalempens.com.au

Appendix 2:

EWA Submitted to PIRSA

APPLICATION FOR EXPLORATION WORK APPROVAL
EXPLORATION LICENCE 2936, OODNADATTA

9th October 2005

1.0 General Details

Title Holder/Operator

Integra Mining Limited
168 Stirling Highway
NEDLANDS Western Australia 6009
Phone: 61 (8) 9423 5920
Facsimile: 61 (8) 9423 5930
Email: info@integramining.com.au
Website: www.integramining.com.au

Contact

Chris Cairns (Managing Director)
Bill Clayton (Administration Geologist)

Location

EL2936
Oodnadatta (SG5315) 1:250 000 scale map
Algebuckina (6042) 1:100 000 scale map

Proposal

To diamond drill test (vertical hole to 450m) a coincident magnetic and gravity anomaly interpreted to be an iron oxide – copper – gold exploration target. Initially the target will be tested by a single hole, using a down hole geophysical probe on completion of the hole to confirm proximity to the magnetic target. The exploration program will require excavation of sumps to contain the anticipated groundwater flow, otherwise exploration will be low impact.

Access

The area is accessed via the Oodnadatta – William Creek road, turning south onto an existing station track immediately east of the Hann's Creek crossing. The Borthanna drill site is located 10km southwest of Mt. Dutton, south of the Neales River. There is no requirement for clearing to gain access as the drill site is located 60m from an existing station track. The attached plan and photograph shows the site and proposed access route.

Timing

The drilling program will commence as soon as the statutory requirements and heritage survey obligations

have been fulfilled. However, as the hole is located within the GAB, the exact timing of the drilling program will be determined by the availability of a registered Class 3 drilling contractor who will comply with the requirements of PIRSA and the Department of Water, Land and Biodiversity Conservation (DWLBC) of South Australia.

The drilling program is expected to take up to two weeks if drilled on a continuous basis (i.e. same contractor completes precollar and diamond tail).

Field Operations

Two qualified drilling contractors (John Nitschke Drilling and Thompson Drilling Co. Ltd.) have been contacted to establish their availability. The Nitschke drilling fleet is engaged in a long term drilling contract at Olympic Dam and Thompson Drilling operate in the Oodnadatta area on a seasonal basis. At this point other potential contractors have not been identified.

Based on previous experience, the program will require a drilling rig mounted on a 6x6WD or 8x8WD truck with a water truck, rod truck and 4WD support vehicle with caravan. Personnel will consist of site geologist and field assistant with 4WD vehicle, a driller and two drilling crew. A down hole geophysical survey will be carried out on completion of the hole. The survey can be conducted within one day by a technician using a fully equipped 4WD vehicle.

Communications throughout the program will be maintained by satellite telephone, with UHF/VHF radio as a backup.

A temporary camp will be established at a location in the vicinity of the drill site with the agreement of the pastoralist and aboriginal claimants.

Drilling

On the advice of the DWLBC and from experience gained during previous drilling programs in the area, pressured artesian water is expected in Mesozoic and Permian sediments. Integra Mining Limited and the selected drilling contractor will comply with the conditions specified in *Mineral Exploration Drillholes-General Specifications for Construction and Abandonment (Information Sheet M21)* and as directed by DWLBC.

A backhoe or similar plant will be required to excavate three sumps to contain all drilling waste and water, with topsoil being stripped and stored separately for site rehabilitation. The sumps will have dimensions 15m x 3m x 2m and will be lined with black plastic. The earth moving will be contracted locally and carried out in

accordance with the conditions of the *Statement of Environmental Objectives and Environmental Guidelines for Mineral Exploration Activities in South Australia (Information Sheet M33).*
Drilling water will be obtained either from Shell Bore or Toondina Dam by agreement with the pastoralist.
Integra Mining personnel will supervise all aspects of the field operations and ensure compliance with PIRSA standards.

Precollar

A mud rotary precollar will be drilled to Proterozoic basement, (estimated at 200 to 240m depth). Pressure cemented steel casing will be used for the length of the precollar to seal-off potential aquifer mixing and prevent groundwater contamination from drilling fluids.

Diamond Drilling

The remainder of the hole will be diamond drilled using NQ2/6m drill rods. Final depth is estimated to be 450m but is dependent on the geological conditions that are encountered.

2.0 Environmental Details

Existing Land Use

The exploration program will be conducted on the following pastoral lease:
Allandale PE 2408
Block 770
Lessee: Andrew Trevor Clarke
"Allandale Station" PMB 21
Port Augusta SA 7806
Tel: 08 8670 7806
The lease is used for low intensity cattle grazing.

Topography

The proposed drill site is located approximately 10km SW of Mt. Dutton and comprises low, gently undulating gibber plain with recent alluvial sediments filling intermittent drainage channels which feed into the Neales River system.

Vegetation

The vegetation cover consists of sparsely distributed low saltbush (*Atriplex spp.*) with kerosene grass, bindii and samphire. Isolated stands of small eucalypts and coolibah are found adjacent to the more significant drainage channels.

Hydrogeology

The Borthanna drill site lies within a triangle bounded by historic exploration drill holes Borthanna 8518, SDA 15 (Shell Bore) and STDS 3. It is anticipated that the stratigraphy will reflect the variations evident between the nearest holes and that the hole will intersect multiple

aquifers with high water flow rates. A limited amount of hydrological information is available for SDA 15, 5km to the southwest, which has a standing water level (head?) of 13m, a yield of 15838 litres/hr, water quality (TDS) is 1962 mmg/l with a pH of 7.9. Integra Mining drilled OKD001 2.5km east of STDS 3 in 2002, this hole encountered shut in pressures of up to 39psi in the precollar, which was drilled to a depth of 86m. Water samples were submitted to DWLBC for analysis.

2.1 Potential Impacts, Proposed Mitigation and Rehabilitation Methods

General

Exploration activities and mitigation methods will be carried out in accordance with PIRSA's *Statement of Environmental Objectives and Environmental Guidelines for Mineral Exploration Activities in South Australia* and *Statement of Environmental Objectives for Mineral Exploration in South Australia (Information Sheets M33 and M34)*. The drilling program will be low impact, however the preparation of sumps for water containment requires the use of declared equipment and the involvement of local aboriginal land claimants.

Access

Access to the drill site is via established station tracks that are currently suitable for a drill rig and support vehicles without further upgrade. The site is located adjacent to an existing track, removing the requirement for any further clearing. The requirement to periodically cart water to the drill site will inevitably result in degradation of the tracks leading to the water supply. These will be graded and restored at the completion of the program as will the main access track. Travel will be avoided if the tracks are affected by rain.

Drilling activities will cause minor disturbance to the immediate drill site and will require a pad of approximately 20m x 10m to provide a safe working platform. As the chosen site is already clear and relatively level, further intervention is unlikely.

Drill Sites

The precollar will be drilled using the mud rotary technique, cuttings are collected at 1m intervals and placed in rows of small pits. At the completion of the program the pits are covered with topsoil and concealed. If significant compaction has occurred the drill pad will be scarified to assist regeneration.

Topsoil will be removed and stored separately during sump preparation. Following completion of the program

and drying of the sumps the topsoil will be returned. The drill hole casing will be cut off close to ground level and capped. Vehicles will be equipped with fire suppression, fire extinguishers and first aid equipment.
Groundwater samples and specific information on depth of aquifer and estimated flow rate will be submitted to PIRSA. At completion of drilling the hole will be abandoned in accordance with PIRSA *Mineral Exploration Drillholes - General Specifications for the Construction and Abandonment (Information Sheet* M21*)*

Camp Site

A campsite will be established in the vicinity of the drill site with the approval of the pastoralist and local aboriginal claimants. The area is open and flat and no clearing will be required. All non-biodegradable rubbish will be removed from site and disposed of at an approved rubbish disposal area in Oodnadatta. Biodegradable rubbish will be buried on site. Earth drains will constructed for shower and kitchen water.
The terms and conditions in PIRSA *Statement of Environmental Objectives and Environmental Guidelines for Mineral Exploration Activities in South Australia (Information Sheet M33)* will be complied with.

Cultural

Integra Mining Limited is aware that Native Title Claim "SC 98/02 Arabunna Peoples Land Rights Claim" affects Exploration Licence 2936. Integra Mining Limited has signed up to the Arabunna Indigenous Land Use Agreement (ILUA) and is about to request a Heritage Clearance Survey over the area of the drilling program.

Landholders

Integra Mining Limited has communicated with the pastoralist according to the PIRSA guidelines in *Liaison Guidelines for Landholders and Mineral Explorers in South Australia (Information Sheet M36)*. Contact was re-established with a visit to the proposed drill site in September 2005 and will be maintained as the preparations for drilling progress.

Attachments

1) location plan E2936 and
2) location of drill site, showing access tracks
3) Notice of Entry – Form 21
4) photographs of site

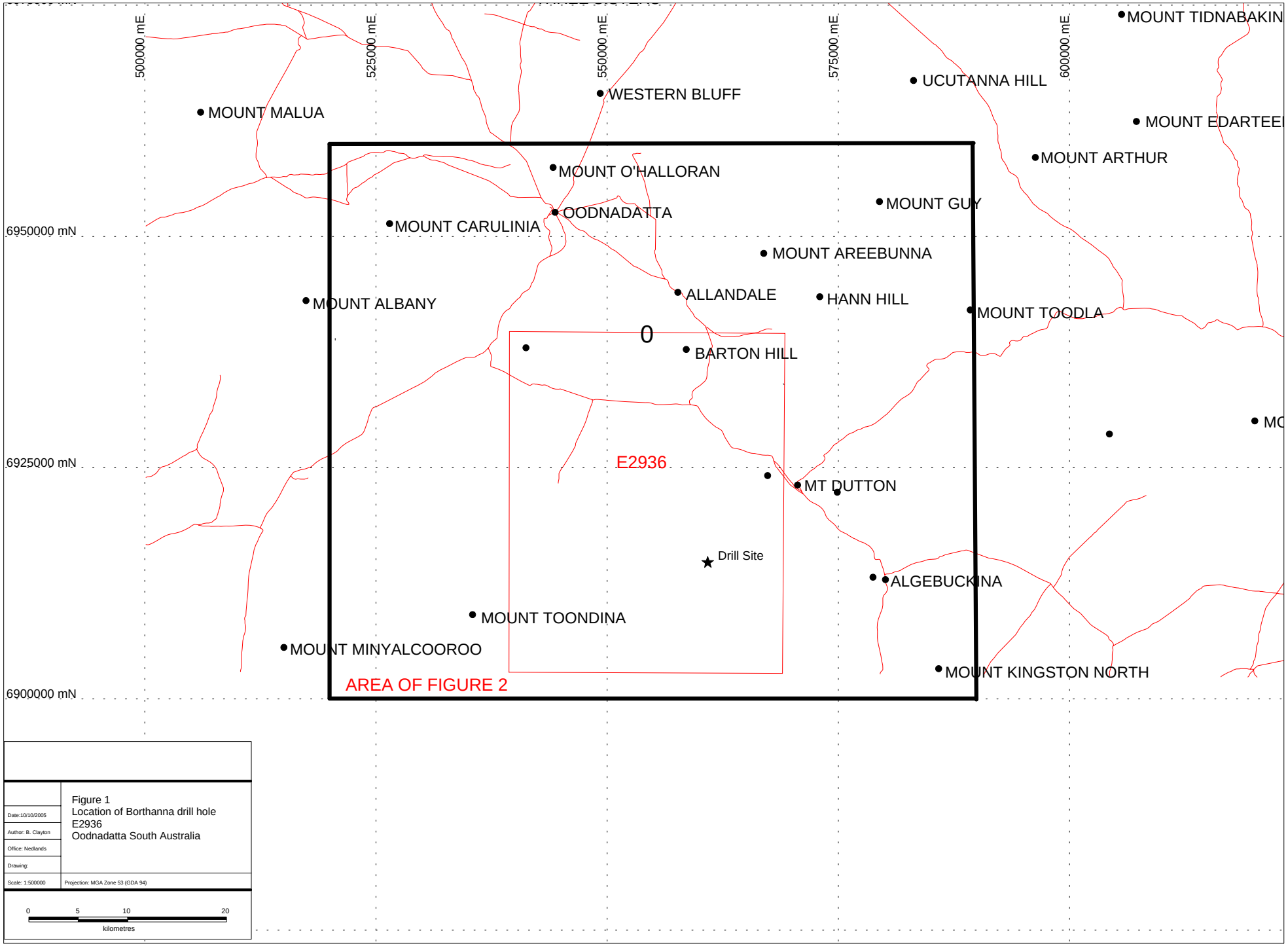


Figure 1
Location of Borthanna drill hole
E2936
Oodnadatta South Australia

Date:10/10/2005
Author: B. Clayton
Office: Nedlands
Drawing:
Scale: 1:500000
Projection: MGA Zone 53 (GDA 94)

0 5 10 20
kilometres

520000 mE 530000 mE 540000 mE 550000 mE 560000 mE 570000 mE 580000 mE 590000 mE

6950000 mN 6940000 mN 6930000 mN 6920000 mN 6910000 mN

Proposed Borthanna Drillhole

Integra Mining Ltd	
	Borthanna Project E2936
Date:29/9/2005	Proposed Drillhole Location
Author: Bill	
Office: Integra	
Drawing: BAS	
Scale: 1:100,000	Projection: MGA Zone 53 (GDA 94)

2 0 2 4 6
Kilometers

FIGURE 2





Appendix 3:

Heritage Survey Clearance Request

18th October 2005

Camatta Lempens Pty Ltd

1st floor, 345 King William Street

ADELAIDE SA 5000

Attention: Stephen Kenny

Dear Stephen,

Integra Mining hold exploration licence, E2936, located south of Oodnadatta, within native title claim "SC98/02, Arabunna People's Land Rights Claim". Integra Mining recently signed the Arabunna ILUA in preparation for commencing a work program on the tenement.

I am writing to request that a heritage clearance survey be conducted over the area of our proposed exploration program (see accompanying plan) which is described below;

Exploration Activity

Integra Mining wishes to carry out an exploration drilling program to test a deep geophysical target at the Borthanna project. The program will consist of a single hole drilled to a depth of approximately 450m, exploration work approval for the program is being requested from PIRSA.

The program will require an experienced and suitably equipped drilling contractor using an AWD drill rig, rod truck, and water truck and support vehicle with caravan. The drill crew will consist of a driller and two drill assistants. In addition the program will require the services of a geophysical technician with vehicle for a short time on completion of the hole. An Integra Mining geologist with field assistant will monitor and supervise the drilling program and associated site work.

168 Stirling Highway Nedlands Western Australia 6009 ■ PO Box 612 Nedlands WA 6909
T 61 (8) 9423 5920 ■ **F** 61 (8) 9423 5930 ■ **E** info@integramining.com.au ■ **W** www.integramining.com.au

ABN 54 093 278 436

The program is expected to take up to two weeks if a single drilling contractor can be used to complete the hole, otherwise the program will require drilling of the precollar and diamond tail in two phases over a longer period of time, depending on availability of drilling contractors. There is no definite time frame for the drilling to commence because suitable contractors are currently unavailable. We are initiating the site approvals so that the program can proceed without delay when a drilling contractor becomes available.

Site Preparation

The drill hole is located at 6914500N 560700E (Datum: GDA94) and will require the excavation of sumps to contain the anticipated artesian groundwater.

These will be prepared using a backhoe or similar plant and lined with plastic to prevent seepage. Prior to excavation the topsoil layer will be removed and stored to assist site rehabilitation. As the sumps dry they will be filled in and the surface restored.

Precollar cuttings will be placed in shallow pits at the drill site and covered with soil on completion of the program. Drill core and all drilling related equipment and consumables will be removed from site. The drill pad area is not expected to exceed 25 x 25m, with sumps planned as three additional 15m x 3m x 2m pits.

Site Access

The drill site is located close to existing station tracks. The ground is open and sparsely vegetated and the tracks are adequate for the drill rig to gain access without further modification.

The program will require the accommodation of personnel in a field camp located in the vicinity of the drill site and by the agreement of the pastoralist and land claimants.

Integra Mining is bound to adhere to the conditions of PIRSA's *Mineral Exploration Drillholes - General Specifications for Construction and Abandonment (Information Sheet M21), Statement of Environmental Objectives and Environmental Guidelines for Mineral Exploration Activities in South Australia (Information Sheet M33)* and *Statement of Environmental Objectives for Mineral Exploration in South Australia (Information Sheet M34).*

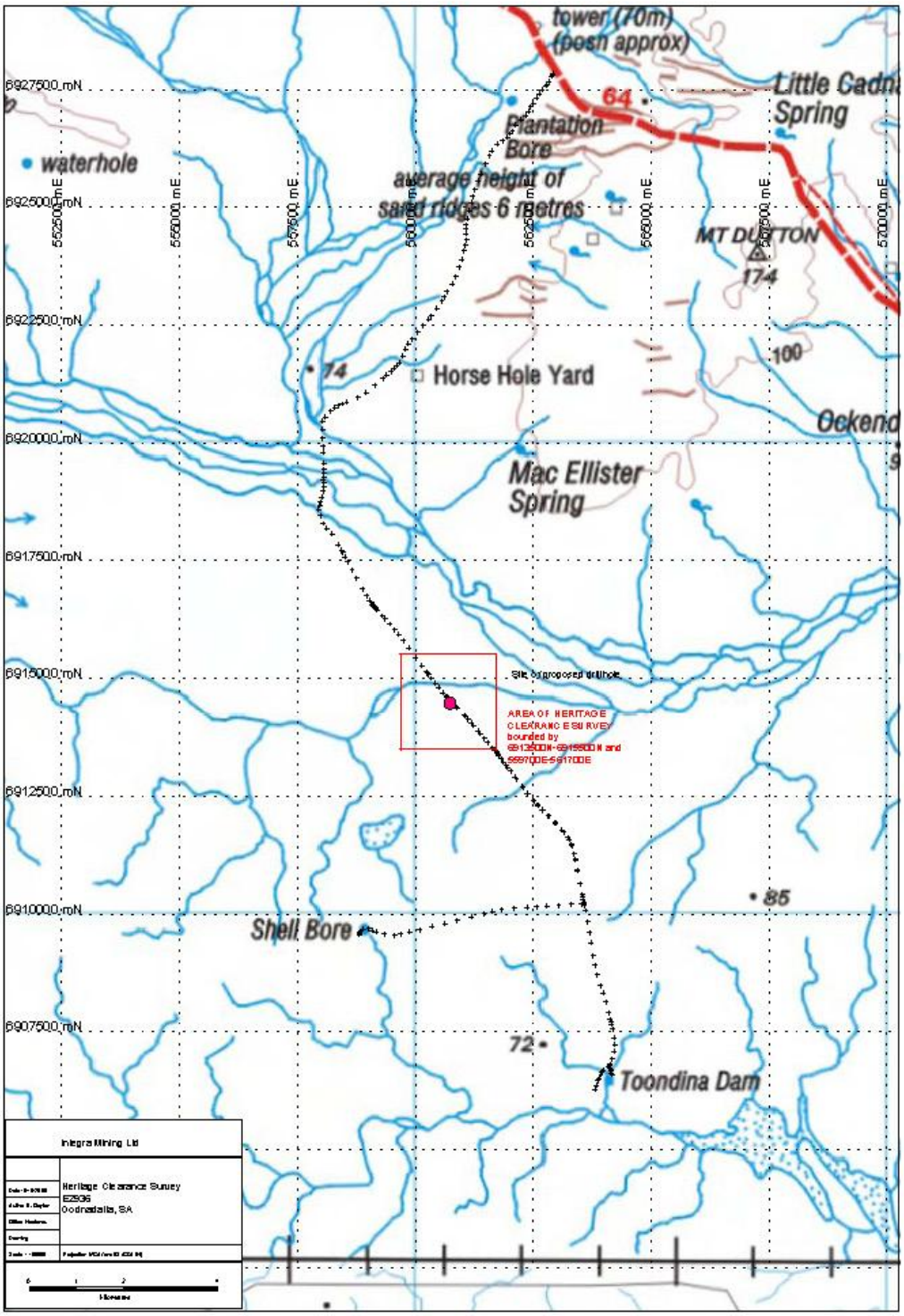
I have recently been in contact with Phil Fitzpatrick (anthropologist), who I believe will be conducting a clearance survey in the vicinity of our tenement. We would be interested in having Phil involved with the survey with the agreement of Reedy Lagoon (holders of E3250) and the Arabunna representatives. Please keep us informed of progress on the clearance survey so we are able to alert the pastoralist of any activity on Allandale Station.

Yours Sincerely,

Bill Clayton
Administration Geologist



Figure 1 Borthanna drill site



Please Note:
Scaled location plans, as required under the terms of the agreement, are being forwarded by mail.

Appendix 4:

Lindeman Geophysics Memorandum, Results of Ground Geophysical Survey, Borthanna Project, Oodnadatta EL

May 5th, 2003

Memo to: Dr Robin Morritt
ReLODE Ltd

From: Frank Lindeman

Subject: Results of Ground Geophysical Survey
Borthanna Project, Oodnadatta EL

Introduction:
The Borthanna Project area is one of the three original magnetic targets, which were identified in the initial examination of the Oodnadatta E.L.. Previously completed interpretation of the high quality 300m line spaced aeromagnetic data, which were acquired from PIRSA, indicated that this prominent magnetic anomaly is sourced by 3 deep magnetic sources, the shallowest being approximately 588m to top-**figure 1**. This magnetic interpretation indicated therefore that the magnetic sources are too deep for drill testing. Please note that the most northern and deepest sourced part of this response (ie north of body 3) was not modelled.

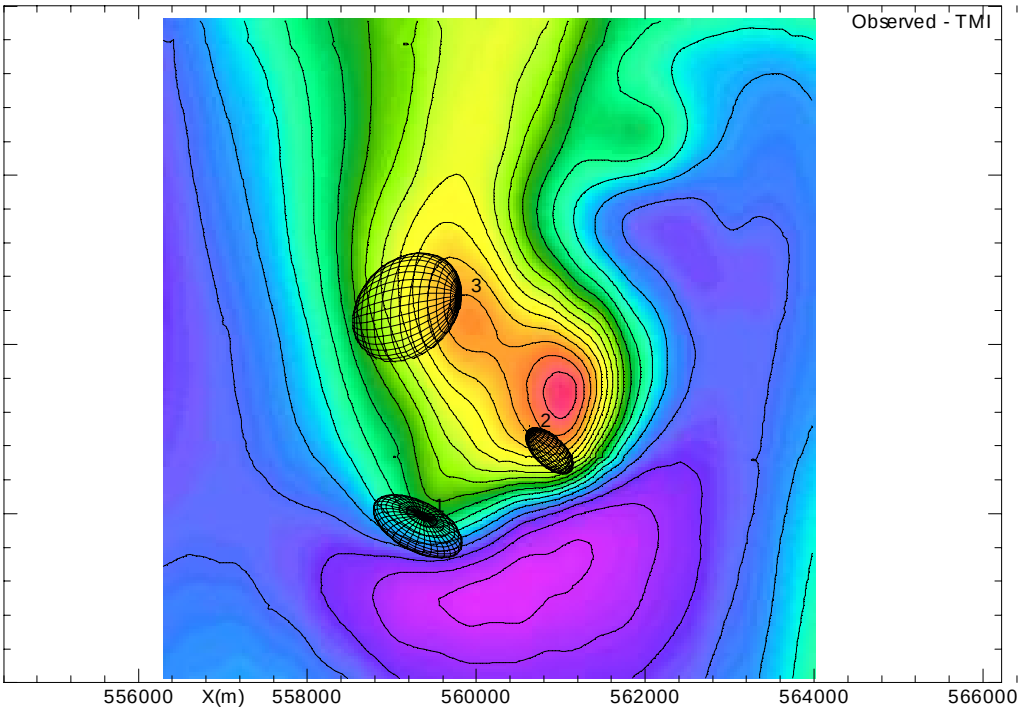


Figure 1: Borthanna Project-Aeromagnetic Data plus Interpreted Magnetic Models
(*** Northings: 6912000N to 6920000N)

Unlike the situation with the magnetic data, the gravity coverage over the Borthanna target is extremely poor, with basically a single east-west line of 42 stations spaced ~250m apart, being the only coverage over the project area. Evident on the regional coverage just to the east of the Borthanna Project is a broad north-south gravity ridge. The situation with the gravity data was reported previously in a 24th October, 2002 email report to Mark Derriman of ReLODE Ltd which stated:

"I conclude that while there is now no Bouguer gravity response at Borthanna, a single line of data is not well placed to discover one. There is a well-documented "lack of data coverage" in the area, which means that a significant gravity response could still exist where there are no stations. From the east west gravity line at Borthanna, there is no coverage for 3.3 kms to the north and over 7kms to the south. I should also point out that the range of data on the east west line is >21 mgals.....-15.3 to 6.5 mgals, which is extremely high considering the close station spacing. Given this fact, a discrete residual gravity response could well exist once the strong regional response has been removed".

The Oodnadatta EL is located over the ***O'Driscoll G2 gravity lineament*** which trends in a north-north-west direction across Australia from western Victoria through Olympic Dam to Cambridge Gulf in the Northern Territory. Specifically, the Borthanna Project area, as defined by the magnetic response, lies on this lineament.
The Borthanna magnetic anomaly was explored by BHP in 1983/4 when known as "The Neales". BHP reports, which cover this exploration, have been obtained from PIRSA and are in the ReLODE Ltd offices in Nedlands.

Ground Geophysical Survey:
Magnetics:

Daishsat has recently completed ground coverage using 300m line spacings and a 20m reading interval. In the northeast of the survey area, the original program was compromised due to difficult ground conditions. With due consideration to the relative importance of this specific area, which is basically peripheral to the main magnetic response, authorisation was given by Lindeman Geophysics for Daishsat not to make further attempts to collect this data.

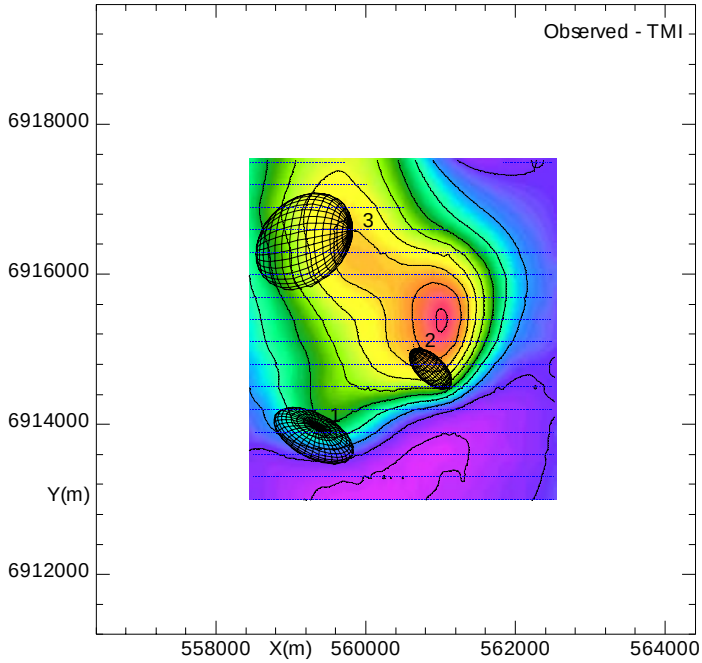


Figure 2: Borthanna Project-Ground Magnetic Data plus Aeromagnetic Models

Figure 2 shows the coloured image of the ground magnetic data along with the 3 magnetic bodies as interpreted from the airborne data. 3D interpretation of this ground data has been completed using the Potent software and **figure 3** shows the magnetic data with these magnetic sources.

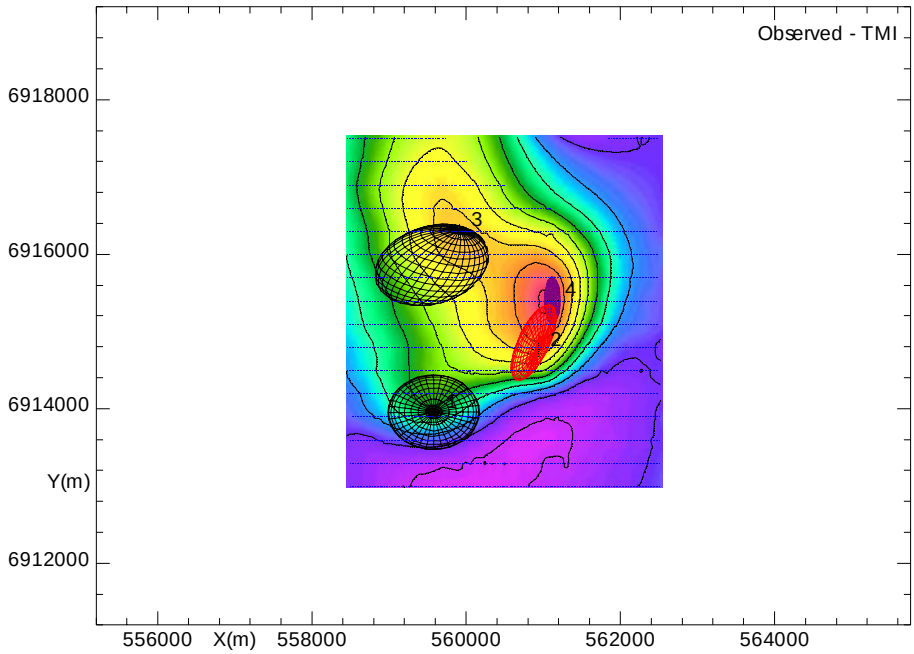


Figure3: Borthanna Project-Ground Magnetic Data plus Interpreted Magnetic Models

Details of these models are as follows:

Models #	*Estimated Depth to Top*	*Magnetic Susceptibility (SI units)*
1	785m	0.37
2	724m	0.41
3	1297m	0.29
4	270m	0.04

All interpreted magnetic bodies therefore are not realistic drill targets because of their large estimated depths to top. It should be noted that body 4, by far the shallowest of the bodies at 270m to top, is limited in size and has the weakest magnetic susceptibility of all the bodies. It could, in fact, represent some shape irregularity with body 2, remembering that the ellipsoid shape is not a realistic representation of a geologic entity.

Gravity:

Utilising the same lines as used for the ground magnetics, and a station spacing of 60m, the gravity program has just been completed, although the northern three lines of the original program were not able to be read due to poor ground conditions. The Daishsat operations report, which has already been supplied to ReLODE, describes the problems experienced. At the time of writing this report, there appears no reason to complete the survey, as the magnetic bodies have been covered efficiently enough to be able to recognize whether a gravity response could exist in their vicinity. Station elevation varies only 13.62m across the survey area and so is not a factor in the interpretation process.

Figure 4 shows the contours of the Bouguer gravity overlaid onto the ground magnetic data. Also shown in this figure are the ellipsoid magnetic bodies, as interpreted from the ground magnetic data.

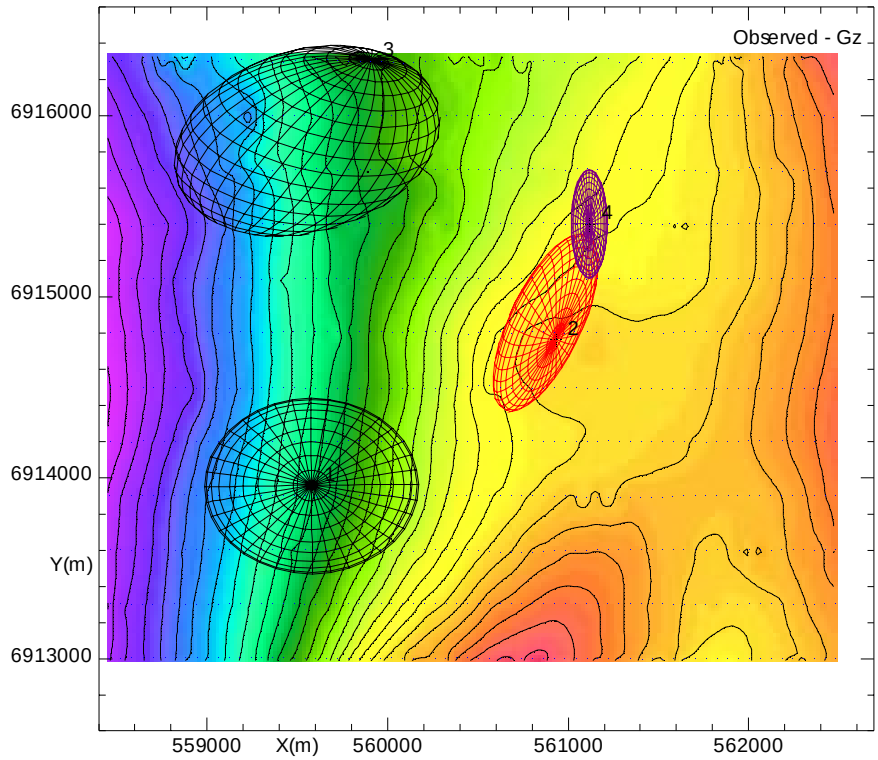


Figure 4: Borthanna Project Bouguer Gravity and Magnetic Models

Examination of the gravity data shows a prominent approximately 7mgal east-west regional response, along with the existence of two residual gravity responses, both roughly centred on 561000E. One anomaly is defined on the southern 3 lines in a non-magnetic area, while the second is centred at approximately 6914500N, which is very close to the location of the magnetic body 2 and adjacent to body 4. This is a potentially a very interesting result, particularly as there is no residual gravity response which could relate to magnetic bodies 1 and 3. Consequently 3D modelling has only been completed on this second residual gravity anomaly.

Subjectivity and Ambiguity in Gravity Interpretation:

All models of potential field data are interpretations that may be permitted by the data but are not required by the data (Hanneson, 2003)

a) The veracity of this residual Bouguer gravity response relies heavily on the method of removal of the gravity regional. This is a very subjective process and in this case is totally responsible for the size and shape of the gravity residual. In this instance the Potent 3D potential field modelling program was utilized to firstly estimate the regional, remove it from the original data and finally to model the residual response. It is highly probable that different workers will arrive at different values for the regional and hence the gravity residual and hence the values given here are the views only of Lindeman Geophysics.

b) The problem of ambiguity in interpretation always exists with gravity data. Gravity deals with density contrasts, and as such, all contrasts will be reflected in this data. Density contrasts caused by paleo-topography ie an irregular depth of weathering,

buried geological contacts, and surficial geological noise can give rise to significant gravity anomalies. In situations of non-outcrop and where no subsurface geology is available, the correct causes for these anomalies are difficult to predict.
In practice, an interpretation can be aided by geological intuition and logic, such as that obtained from drill logs and from other geophysical techniques, such as magnetics. In addition some useful information on the estimates of depth and total mass contrast can be obtained from gravity data without making assumptions about the causative body.

Below are listed some comments made by pioneers in gravity interpretation:

…..widely different mass distributions below the ground can give the same gravity picture on the surface." Skeels, 1942.

"For a given distribution of gravity anomaly…., an infinite number of mass distributions can be found which would produce the same anomaly." Sharma, 1976.

"Gravity measurements alone do not suffice to uniquely determine the distribution of anomalous masses." Dobrin, 1966

" ….quite different geometrical types of mass can explain a set of (gravity) data." Dobrin, 1966.

Advice has been sought from a colleague of mine and it must be said that the residual calculated by him can be modelled by a source similar in depth to the magnetic body.

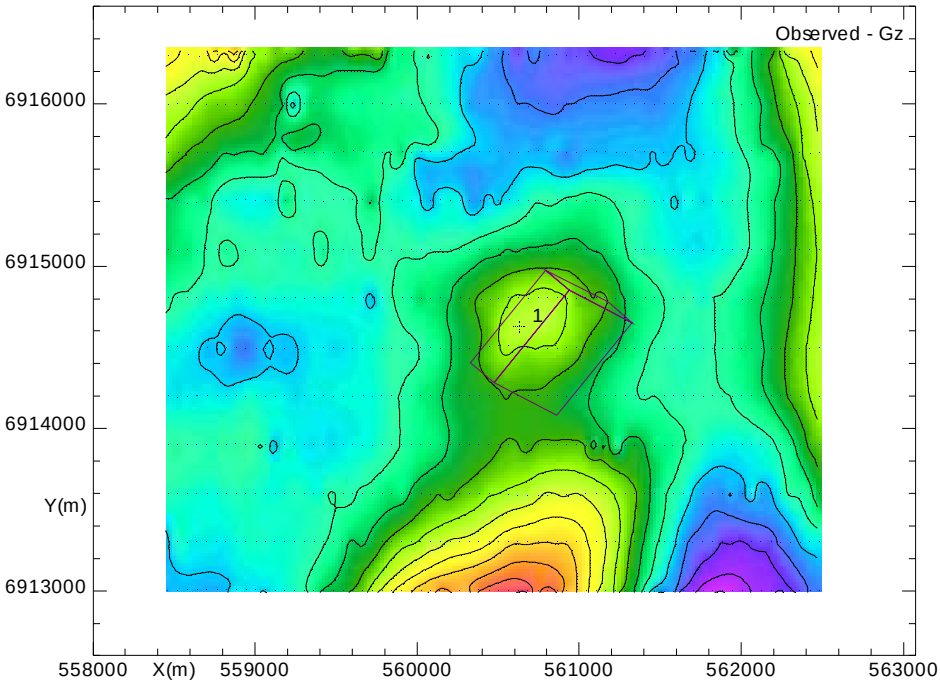


Figure 5: Borthanna Project-Residual Bouguer Gravity plus Interpreted Gravity Body

Figure 5 shows the residual Bouguer gravity response and the interpreted body #1. **Figure 6** shows a profile over this model while **figure 7** shows a plan of the residual gravity data, the magnetic anomaly and the modelled gravity body. Details of this body are:

Estimated Depth to Top	*Density*	*Dimensions*
216m	0.327 g/cc	735m x 200m x 1520m depth extent

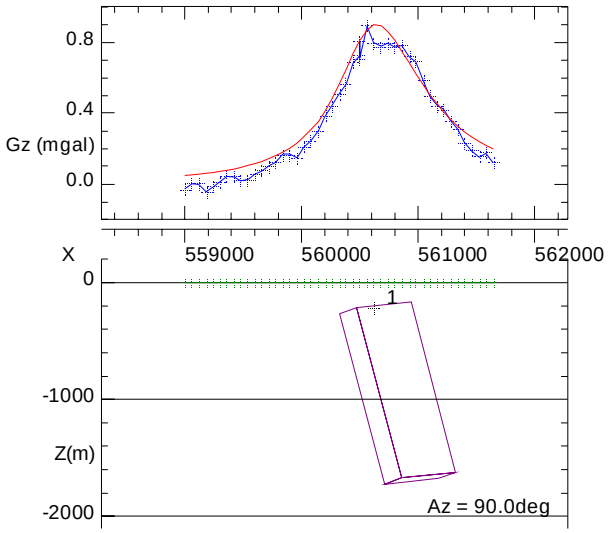


Figure 6: Borthanna Project Line 6914500N Bouguer Gravity plus Model

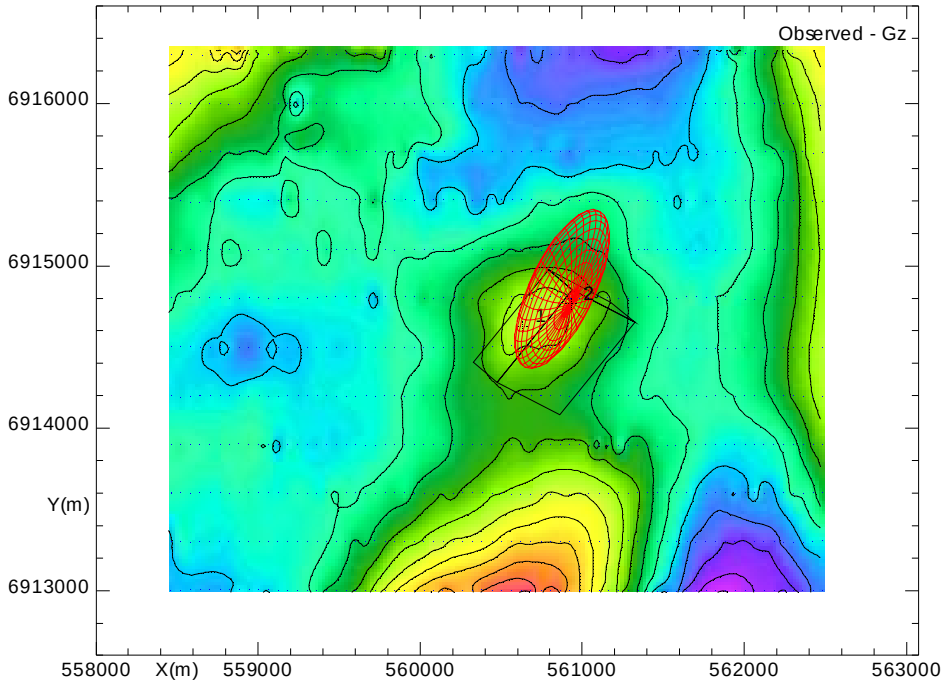


Figure 7: Borthanna Project- Residual Bouguer Gravity with
Gravity Body (prism) plus Magnetic Body (ellipsoid)

Below are two profiles, lines 6914500N (**figure 9**) and 6914800N (**figure 8**), which best traverse the magnetic body 2 and the gravity body. Please note that the solid part of the bodies in these cross sections reflect that part of the body which is in the plane of the profile.

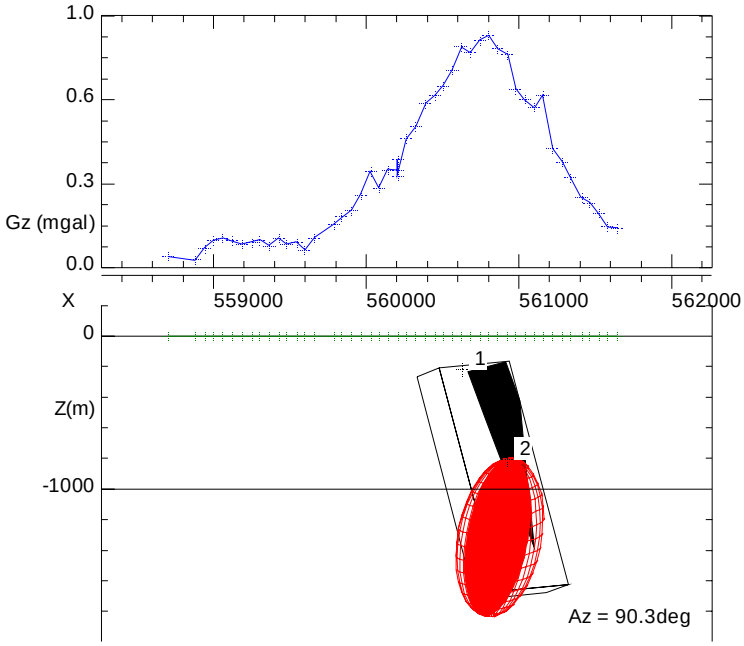


Figure 8: Borthanna Project Line 6914800N- Residual Bouguer Gravity plus
Gravity Model (prism) and Magnetic Model (ellipsoid)

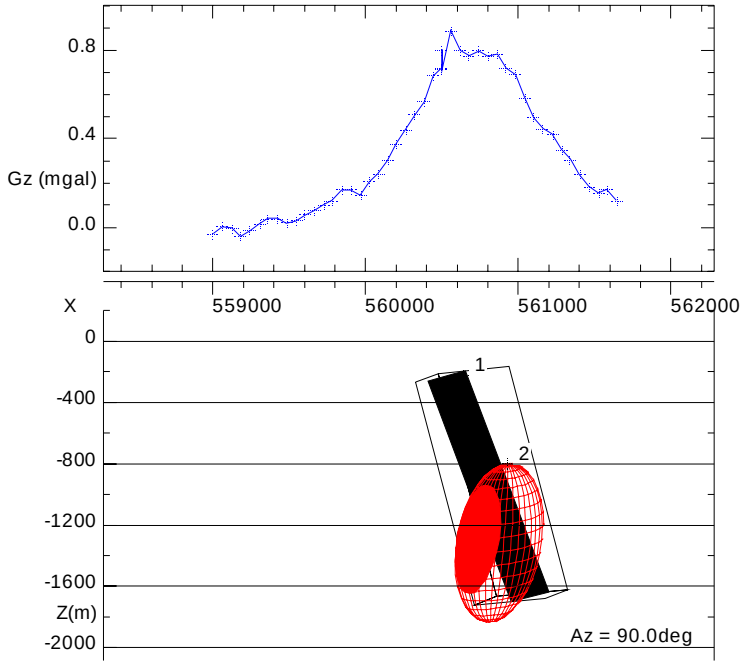


Figure 9: Borthanna Project Line 6914500N- Residual Bouguer Gravity Plus Gravity Model (prism) and Magnetic Model (ellipsoid)

Discussion of Results:

The calculation of the gravity residual and interpretation ambiguity notwithstanding, the interpretation of the magnetic and gravity data from the residual Bouguer anomaly located in the centre of the survey area gives an intriguing result. The three dimensional modelling shown here suggests that a gravity body with a density contrast of 0.3 – 0.4 g/cc and with a depth extent of over 1500m has a depth to top of ~216m. The magnetic modelling indicates that the lower half of the gravity body is very magnetic having 0.41 SI unit susceptibility. This scenario has similarities to the geophysical response from the Olympic Dam deposit in SA. There the gravity response, whose source has a depth to top of approximately 300m, is located basically ***above*** the strong magnetic response, whose source to date, because of its depth, we understand is still a mystery. Although the Borthanna gravity body is much smaller than the response at Olympic Dam (~20 sq kms), it has a stronger residual Bouguer gravity response (0.8 m gals) than that at Olympic Dam which is strangely only in the order of 0.3 m gals. The Olympic Dam deposit is basically mapped by the Bouguer gravity residual, which is extracted from the original 11m gal regional response.

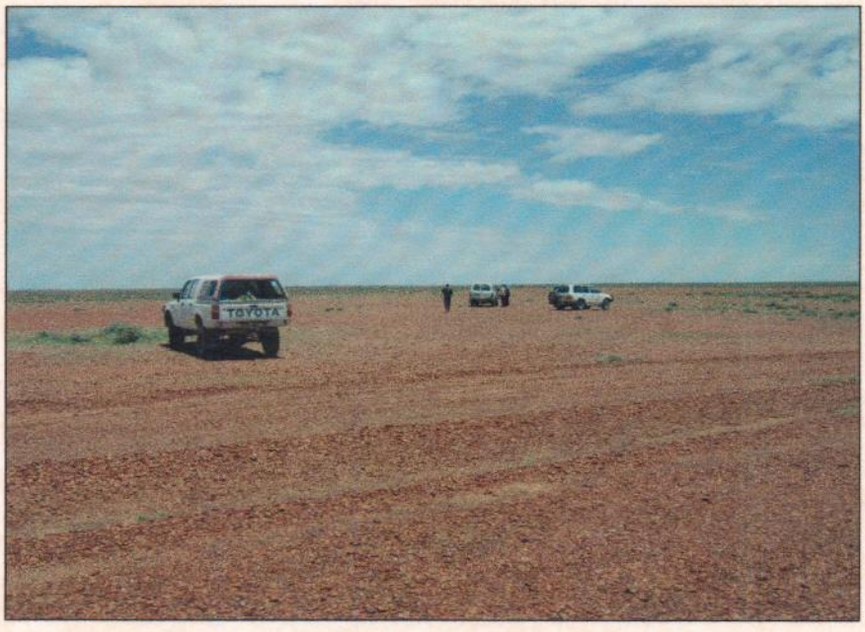
The Borthanna situation certainly appears very interesting, albeit being dependent on the subjective removal of the gravity regional and the modelling of gravity data, which in unknown geological situations such as here, can produce non-unique solutions.

Frank Lindeman

APPENDIX 2
HERITAGE CLEARANCE SURVEY REPORT

40-08

WORK AREA CLEARANCE



Borthanna Project – EL 2936

A Report to Integra Mining Limited and the Arabunna Native Title Claimants

Philip Fitzpatrick
Vivienne Wood

November 2005

Ownership and Disclaimer

Ownership of the intellectual property rights of any ethnographic information provided by Indigenous people for this report remains the property of those persons.

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Introduction

Integra Mining Limited are the holders of Exploration Licence 2936 south west of Mount Dutton and about 50 kilometres south of Oodnadatta. The company has identified a deep geophysical target that it wishes to test by drilling. The program will be limited to one hole drilled to a depth of about 450 metres. The location of the proposed hole is at GDA94 560700 6914500. The company is seeking to discover deposits of base metals.

Access will be gained using existing station tracks. The drilling team will camp on site. Any seepage of artesian groundwater will be contained in three plastic lined sumps. The drill site will occupy an area approximately 25 x 25 metres and each sump will occupy an area 15 x 3 metres. The drill site and sumps will be rehabilitated upon completion of the drilling program. Integra is seeking clearance of an area measuring 2 x 2 kilometres surrounding the drill site to allow for any follow up drilling if the first hole proves encouraging.

The Survey

The authors conducted four separate Work Area Clearances with representatives of the Arabunna Native Title claimants in the area between Oodnadatta and Roxby Downs over a three day period between 13 – 15 November. For the Integra clearance members of the survey team travelled from both Coober Pedy and Marree on the morning of 14 November and met at the old Mount Dutton railway siding. The team then travelled north to Hann Creek and drove southwest to the drilling site arriving about midday. There was no Integra representative accompanying the survey team.

Following the site inspection the team drove south to Toondina Dam and then east to the Oodnadatta/William Creek road just south of Algebuckinna arriving about 3.30 pm. The northern track from Hann Creek to the site crosses a number of creeks with sandy overgrown crossings while the southern track past Toondina Dam traverses flat stony ground with only one minor creek

crossing and no overgrown vegetation. It is recommended that the drilling team gain access to the site using this route.

The clearance area occurs on flat stony tableland with very little vegetation. The nearby creeks support more vegetation with numerous acacia species and the odd large coolabah.

A prior check of the South Australian Register of Aboriginal Sites and Objects maintained by the Department of State Aboriginal Affairs and Reconciliation was not possible prior to the clearance survey because the register was in the process of being moved to a new location. A register check made after the survey revealed that there were no registered or recorded sites in the immediate area however. The hills to the east that are visible from the drill site are part of two major mythologies. These include Mount Harvey and Algebuckina Hill.

Results of the Survey

The drill site centred at GDA94 560700 6914500 and the 2 x 2 kilometre square in which it occurs is cleared for drilling.

Certification

We certify that the above report is an accurate record of the Work Area Clearance survey that took place at the Borthanna prospect on 14 November 2005.

Philip Fitzpatrick

Vivienne Wood

Appendix 1: The Work Area Clearance Survey Team

Arabunna

Ken Buzzacott
Garth Dodd
Reg Dodd
Veronica Milera
Aaron Stuart
Millie Warren

Consultants

Philip Fitzpatrick
Vivienne Wood

Appendix 2: Figure

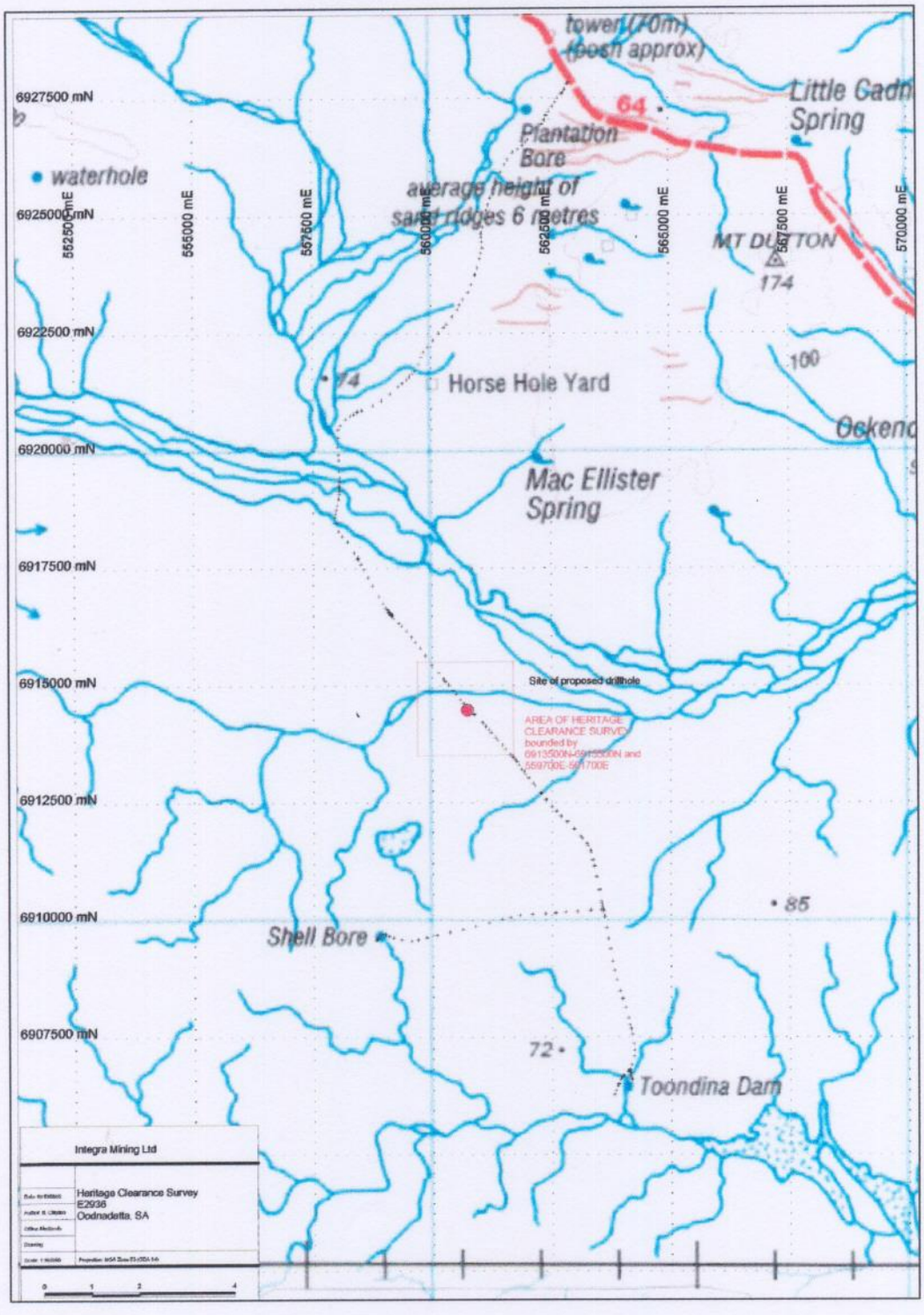


Figure: Location Map

Appendix 3: Plate



Plate: The drill site.

ABN 54 093 278 436

ANNUAL and FINAL

TECHNICAL REPORT

E.L. 2936

For the Period 26th April, 2006 to 25th April, 2007

Tenement Holder – Integra Mining Limited
Operator – Integra Mining Limited / Barrick Gold of Australia Limited

Author – Claudia Rohde

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Distribution:
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Keywords

South Australia, Proterozoic, Gawler Craton, Gold and Copper, Exploration, Oodnadatta, Peake and Denison, diamond drilling,

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DIGITAL APPENDICES

File	Desc
Oodnadatta Annual Technical Report 2006.pdf	Report incl figures and plates
BOD001 log_august2006.xls	Drill Data
Borthanna potential fields modeling_GoCAD.pdf	3D Geophysical Modelling
0651_Oodnadatta gravity survey_client report.pdf	Integra Gravity Report
Integra Gravity Survey Data	Integra Gravity Data
Barrick Gravity Suvey Report.pdf	Barrick Gravity Report
Oodnadatta07.csv	Barrick Gravity Data
Barrick Aeromag Surv_ Logistics Report.pdf	Barrick Aeromagnetic Survey Report
Barrick 2007 Geophysical Data Oodnadatta	Barrick Aeromagnetic Data

(Mag data - see Government of South Australia Mineral Resources Website)

1.0 SUMMARY OF EXPLORATION ACTIVITIES

E.L.158/2936 is part of Integra Mining Limited's Oodnadatta project, which is situated 80km south of the township of Oodnadatta in central north of South Australia (**Figure 1**). E.L.158/2936 was granted on the 26th April 2002 to ReLODE Ltd., ReLODE underwent a change of company name to Integra Mining Limited (Integra) in 2004. On 28 November 2006 Integra entered into a binding Letter of Intent (LOI) with Barrick Gold of Australia Limited (Barrick) for a Farm-In relating to tenement EL158/2936 in South Australia.

Exploration during the year ending 25 April, 2007 was carried out by both Integra and Barrick. In 2006, Integra completed a regional gravity survey and 3D geophysical modelling, and commenced drilling of the Borthanna gravity/magnetic IOCG target.

Barrick completed an airborne magnetic, radiometric and digital elevation survey and a ground gravity survey in 2007. Results of both surveys are being assessed to identify drill targets.

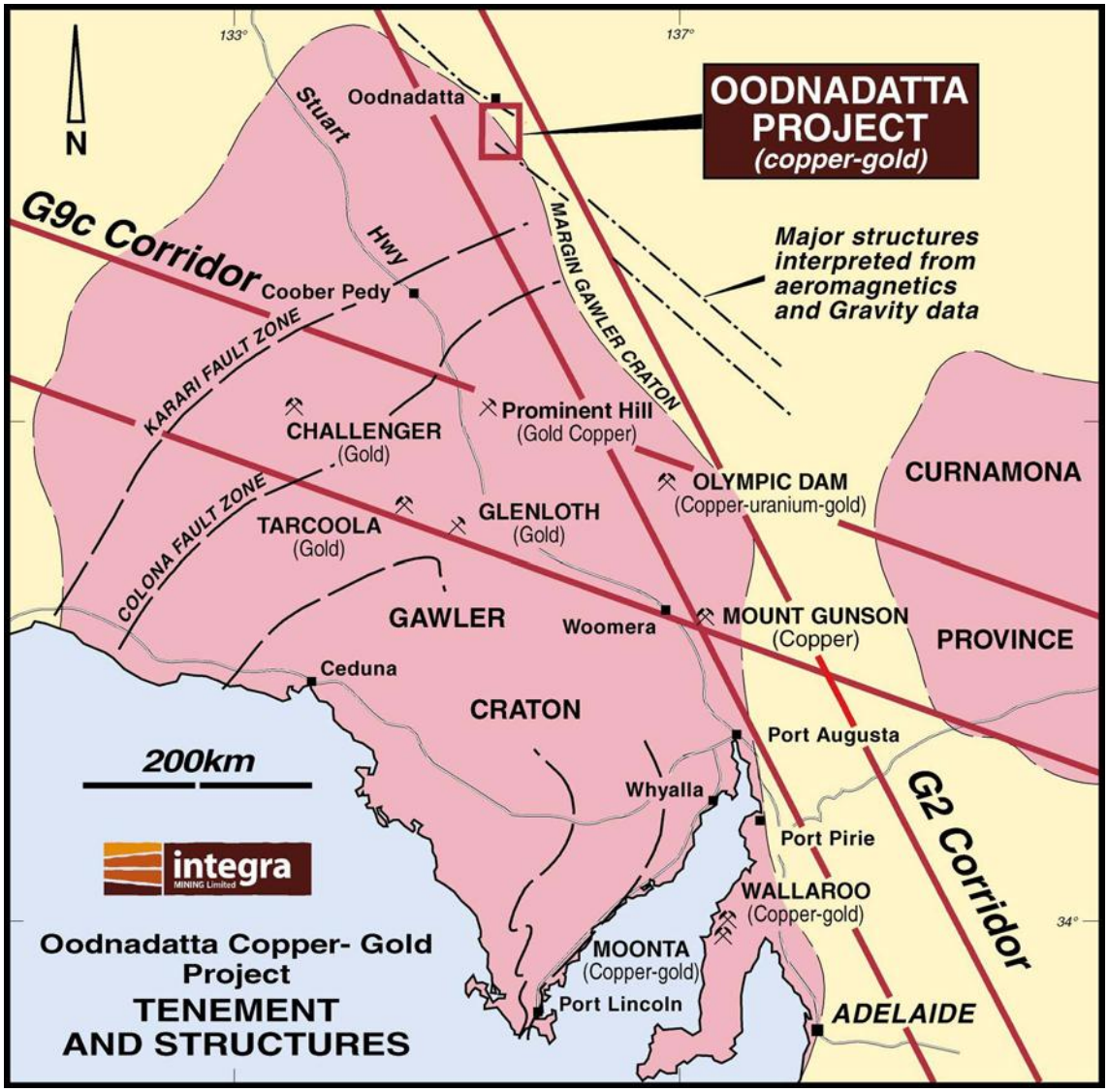


Figure 1 – Gawler Craton Tenement Location Plan

2.0 INTRODUCTION

The Oodnadatta project was selected as an area with the potential to host Iron-Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The Oodnadatta project is situated on the northern margin of the Gawler Craton adjacent to the northern tip of the Peake and Denison Inlier. Outcrop is limited to small areas of Proterozoic bedrock that are surrounded by extensive expanses of Mesozoic sediments that comprise the Great Artesian Basin.

2.1 Tenure Details

Exploration Licence 158/2936 was granted on the 26th April 2002 to ReLODE Limited and comprises an area of 1,655 km^2. ReLODE underwent a change of company name to Integra Mining Ltd. in 2004.

On 28 November 2006 Integra entered into a binding Letter of Intent (LOI) with Barrick Gold of Australia Limited for a Farm-In relating to the Oodnadatta Project in South Australia. The LOI provides for Barrick to earn 80% equity in the Oodnadatta Project by expenditure of $3 million over five years with a minimum expenditure of $800,000 in the first twelve months.

2.2 Location and Access

The Oodnadatta project is situated 80km south of the township of Oodnadatta in central north of South Australia (**Figure 1**). The area is accessed by the dry weather Oodnadatta to William Creek road and then via station tracks to the work areas.

2.3 Previous Exploration

Previous exploration has been confined to ground based gravity and magnetic surveys in the SE of the project area and limited drilling campaigns generally targeting groundwater and coal/gas reserves.

ReLODE completed three diamond drillholes to test interpreted coincident magnetic/gravity anomalies at the **Ockenden** and **Toondina** prospects. The result of the geophysical programs and subsequent geochemical prospecting and drilling of these prospects was reported in Derriman, (2003).

From 2004 to 2006 **Integra** has worked consistently towards drill testing the **Borthanna** geophysical target (**Figure 2**), although no exploration has been completed on the tenement since the Borthanna detailed ground gravity and magnetic survey conducted in 2003. In 2005 Integra applied for PACE funding (the application was successful in November 2005), located the site of the planned hole and renewed contact with the lessee of Allandale pastoral station, signed the ILUA with the Arabunna traditional owners and conducted a heritage clearance survey over the area of the drill site. Following the signing of the ILUA Integra sought to engage a suitable drilling contractor to complete the hole. Locating a drilling contractor with the necessary experience and qualifications for drilling within the Great Artesian Basin proved difficult due to the current intensity of

exploration and development drilling and a shortage of qualified contractors, the fact that the program was of small scale (initially a single hole test) and seasonal factors relating to climatic conditions. After a lengthy delay Underdale Drillers were engaged and the hole commenced in May 2006.

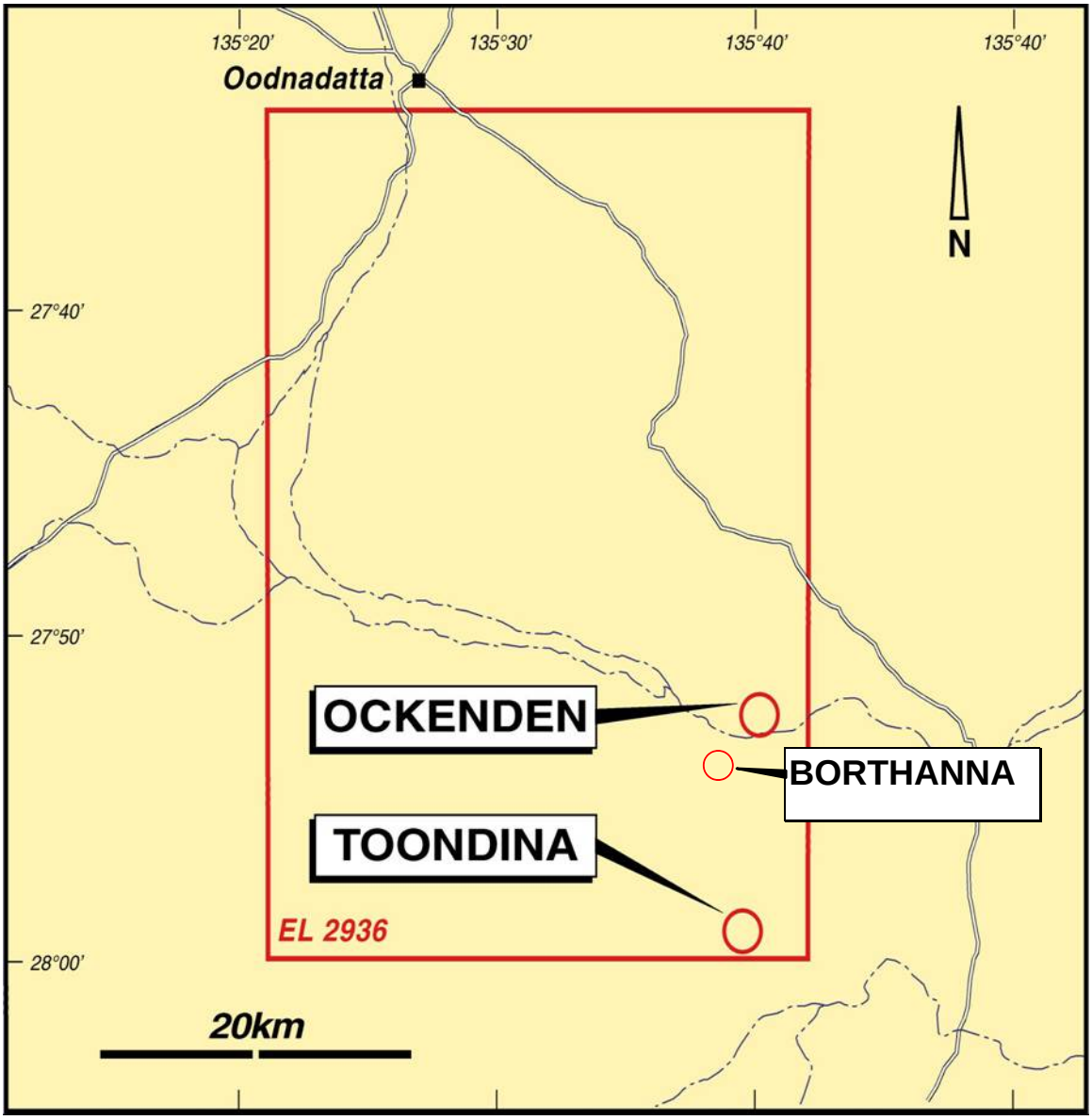


Figure 2 – Oodnadatta Project Target Location Plan

2.4 Exploration Rationale

The Oodnadatta project was selected as an area with the potential to host Iron Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The criteria used in the area selection included proximity to craton scale structures, discrete coincident magnetic and gravity highs, margin of "magnetically active" domains and regional scale alteration. The details of the target selection and modelling process have been included in previous annual reports.

3.0 GEOLOGY

3.1 Regional Geology

The Oodnadatta project is situated on the northern margin of the Gawler Craton and adjacent to the northern edge of the Peake and Dennison Inliers. The Peake and Dennison Inliers include outcrops of Palaeoproterozoic metamorphic basement that is intruded by granitic and mafic rocks of Palaeoproterozoic and Mesoproterozoic ages. The bulk of the Peake and Dennison Inliers is made up of a very thick sequence of Palaeoproterozoic sediments and volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks during the Kimban Orogeny. Evidence of granitic intrusions of "Hiltaba Suite" age (Wirriecurrie Granite) within the Peake and Denison Inlier and historic mining of copper associated with structurally controlled quartz-haematite veining (Copper Top mine) and uranium (Algebuckina), Ambrose and Flint, (1979), suggests that the region was part of a widespread haematite alteration and mineralising thermal event on the eastern margin of the Gawler Craton.

3.2 Project Geology

The surface geology is dominated by extensive areas of flat lying Mesozoic Bulldog Shale, a grey shale unit with bivalve molluscs and gypcrete partings. In the north of the tenement the Bulldog Shale is overlain by remnants of a much more extensive Tertiary land surface comprising pisolitic and ferruginous sand and sandy conglomerate of the Doonbara Formation. The 1:250,000 published geology is shown on **Figure 3**.

To the east and south of the tenement two Neo-Palaeoproterozoic inliers outcrop at Mount Dutton and Algebuckina Hill. At Mount Dutton the Neoproterozoic Curdimurka Subcrop occurs as siltstone, sandstone and dolomite while 15km to the SE at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

Drilling at the Toondina Dam and Ockenden prospects has resulted in the following generalised stratigraphic sequence.

Depth (m)	Formation	Lithologies	Age
0–50	Bulldog Shale	Grey shale with gypcrete	Mesozoic
50–100	Algebuckina Sandstone Cadna-Owie Formation	Sandstone and siltstone	Mesozoic
100–250	Cadlareena Volcanics (equiv.)	Basaltic Andesite	Neoproterozoic
250–?	Unnamed	"Orthoamphibolite" "Granodiorite"	Palaeoproterozoic

The Algebuckina Sandstone and Cadna-Owie Formation are aquifer-bearing units of the Great Artesian Basin and at the Ockenden prospect water pressures to 39psi were recorded.

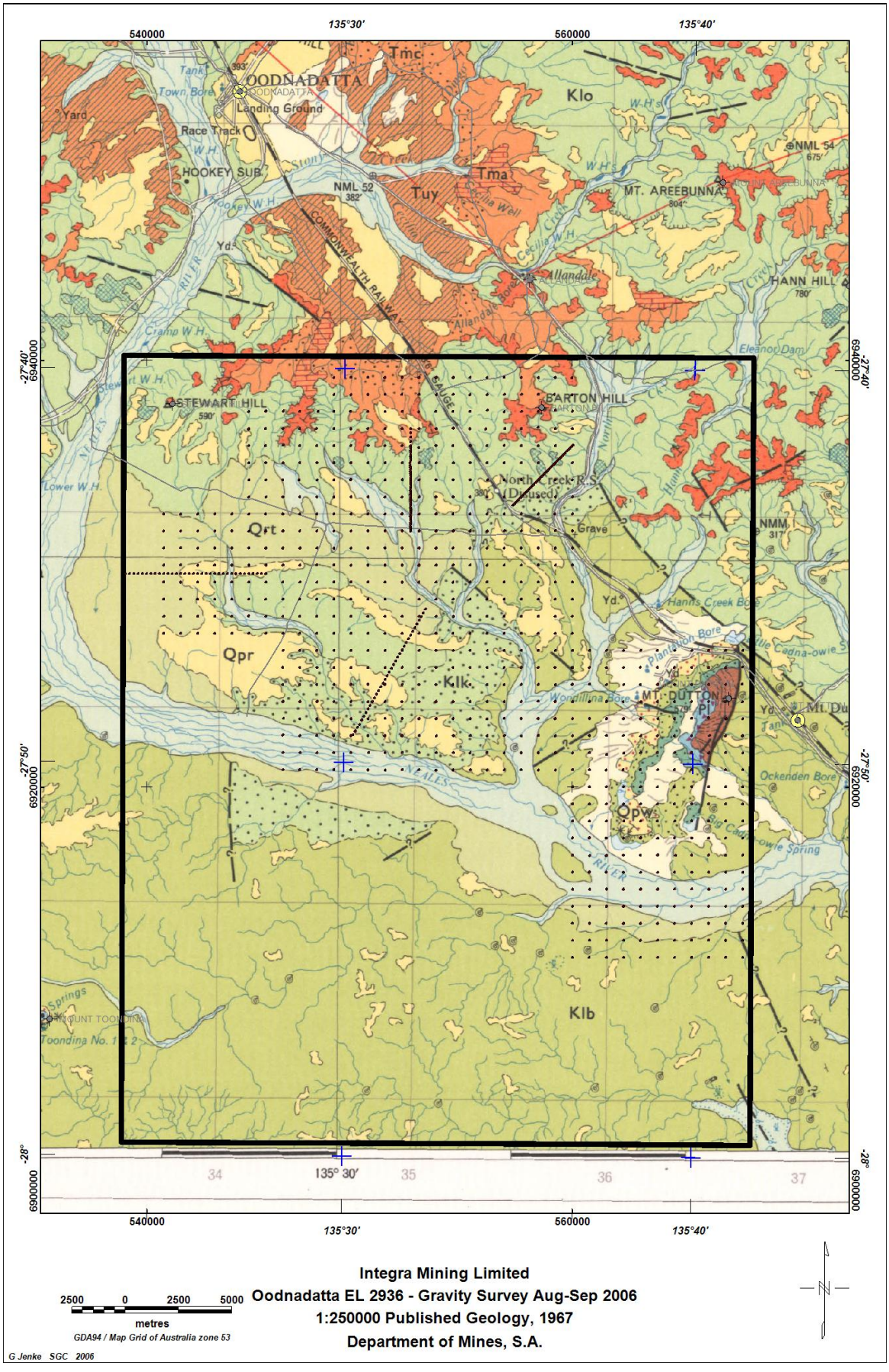


Figure 3 Oodnadatta 1: 250,000 Published Geology

4.0 EXPLORATION COMPLETED 2006 / 2007 BY INTEGRA MINING LTD

4.1 Drilling

Underdale Drilling commenced drilling of the **Borthanna** gravity/magnetic IOCG target (**BOD001**) in May 2006. The drill hole location is shown on **Figure 4** with digital drill data included in the appendix. Drilling problems were encountered in August which resulted in the suspension of drilling, while additional equipment was sought. The hole was suspended at 338.4m and remains to be completed to its proposed depth of 500 metres.

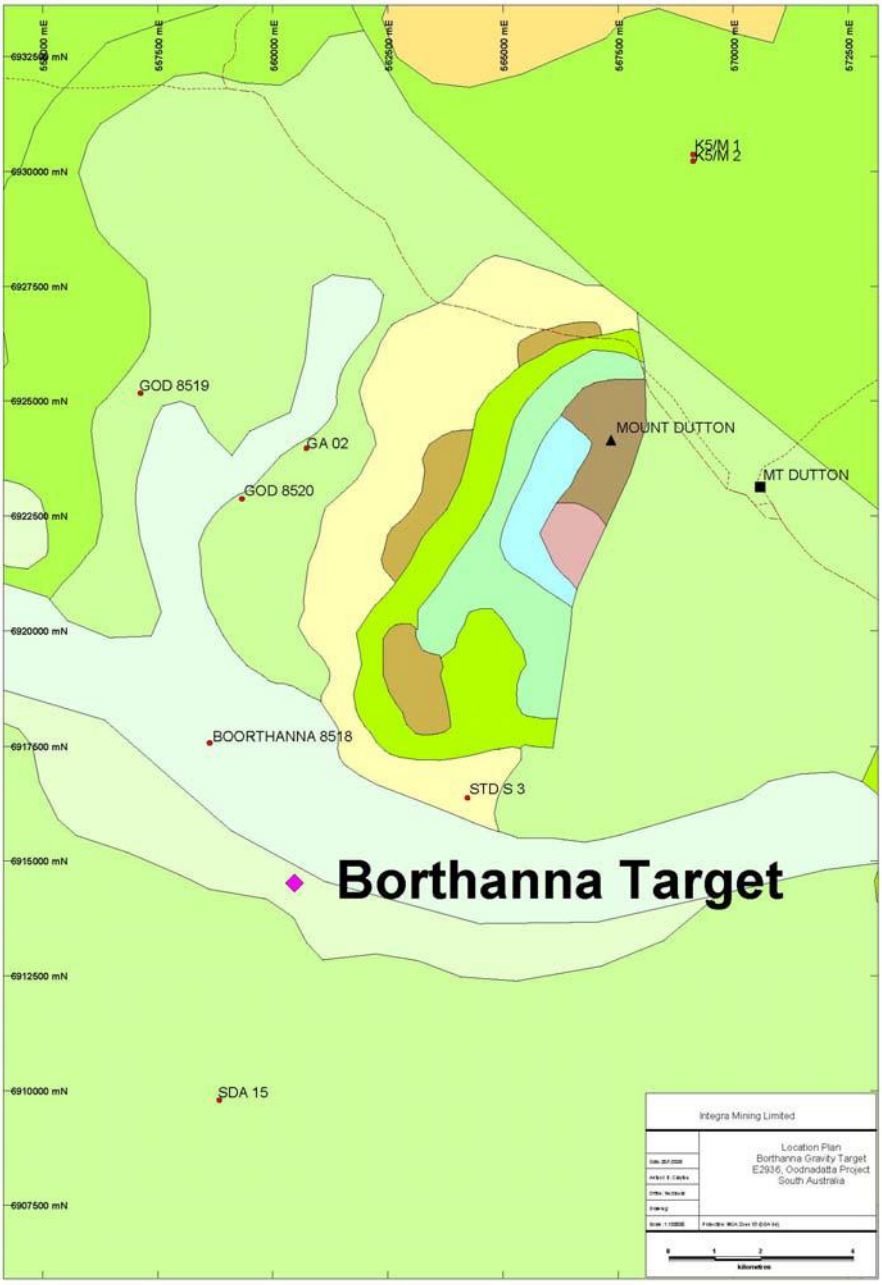


Figure 4 Borthanna Drill Hole BOD001

The Borthanna target is a significant 0.8 m/gal residual gravity anomaly and associated discrete magnetic anomaly identified by detailed ground surveys in 2003. Depth to top of target has been geophysically modelled at 220m. The target was planned to be tested in two phases, an initial mud rotary pre-collar through overlying sediments and artesian aquifers within the Ackaringa Basin, to be followed by diamond drilling to intersect the basement gravity anomaly.

A **drilling progress summary** is shown below:

– mud rotary	0-18m drilled 12", cased 10" steel
	18-90m drilled 9", cased 6" steel
	90-146m drilled 6"
-core	144.7 – 338.5m NQ2.

The **stage 1** drill hole pre-collar to 146 metres depth was completed in June 2007.

A summary of the geology is listed below:

0-6m	Quarternary colluvium
6-9m	weathered Bulldog Shale (saprock)
9-66m	Bulldog Shale
66-146m	Friable sandstone Cadna-Owie Formation - Aquifer

The main feature of the drilling was the anticipated difficulty in controlling the water flow from the Cadna-Owie aquifer. The high confining pressures, low competence of the host rock and relatively shallow depth of the aquifer made drilling particularly challenging. Conditions were similar to those encountered by ReLODE in the Ockenden drilling, however at Borthanna the aquifer is thicker and the basement deeper (the geological sequence is believed to be similar to that found in Shell Bore, 8km to the SW). Shut-in pressures to 40psi and flow rates of up to 90,000litres per hour were encountered in BOD001.

Hard units within the Cadna-Owie Formation were intersected at 90m and 136m, at these depths there was excessive bit wear resulting in the replacement of the roller bit and suggesting the possibility that the basement may have been reached. However there was no indication in the recovered samples of a change in lithology from the loose sand characteristic of the Cadna-Owie Formation. These zones may represent coarser conglomerates or gravels within the sequence and the intersection at 136m may signal the basal conglomerate layer corresponding to the Algebuckina Sandstone elsewhere. The pre-collar depth of 146 metres is close to the base of the Cadna-Owie Fm intersected in Shell Bore at 155m and was interpreted to be close to the base of the aquifer.

The **stage 2** diamond tail was planned to be completed to a total depth of 500 metres. From geophysical modelling, the target depth is approximately 250 metes below surface. Diamond drilling commenced on 22 August and was suspended on 28 August 2006. A summary of the geology is listed below:

144.7-159m	Algebukina Sandstone (poorly consolidated sandstone, broken quartzite, min recovery)
159 – 338.5m	Mt Toondina Formation (siltstone grading up to sandstone, black lignites from 312m).

Diamond core drilling was completed to 151 metres with minimal recovery other than broken quartzite rubble, which was interpreted to be the base of the Cadna-

Owie Formation. The hole was conditioned and cemented at this depth, effectively sealing the aquifer.

Drilling continued with no core being recovered until 159m when the Mt Toondina Formation was reached. The hole continued in soft carbonaceous siltstone, minor sandstone and lignite/coal measures to the current depth of 338.5m. The drilling was halted on 28th August when the rod string snapped and was unable to be retrieved.

In summary BOD001 has been drilled to a greater depth than any of the drill holes in the immediate vicinity, which are eight to ten kilometres distant. Only one other hole has penetrated basement, STDS3, to the north-east which intersected the Peake Metamorphics at 182m. Shell Bore (SDA-15) terminated in Mt Toondina Fm sediments at 236m and B8518 terminated in Mt Toondina Fm sediments at 299m. The depth to basement in the area of BOD001 is unknown, but clearly the estimate of 216m from the gravity modelling is unrealistic.

4.2 3D geophysical modelling

3D geophysical modelling was completed in July 2006 by Mira Geoscience, the procedural report is included in the digital appendix. The gravity / magnetic data and cover sequence isopachs for the Oodnadatta project were integrated into a GOCAD 3D model, using gravity and magnetic parameters derived from the Olympic Dam deposit. The aim of the modelling was to identify areas within the tenement where the gravity and magnetic responses are indicative of alteration and mineralisation styles associated with IOCG deposits.

The GoCAD 3D model of the Oodnadatta potential field data identified two areas requiring more detailed infill gravity surveys. These areas represent the regional NW gravity ridge which intersects the eastern boundary of the tenement and the broader Allendale region representing the intersection of a crustal scale, NE-trending structure with the same gravity ridge. Both areas were identified as zones of possible haematite alteration associated with gravity highs and regions of magnetic and structural complexity.

The **Borthanna** target was confirmed as a discrete gravity / magnetic apophysis on the margin of a larger body interpreted as consistent with a possible Iron Oxide Copper Gold (IOGC) mineralised body (**Figure 5**).

The **Allendale** area displays regional magnetic and gravity anomalism at the interpreted intersection of major northwest and northeast structural zones (**Figure 6**). Ground geophysical surveys were proposed and completed with the objective of identifying discrete anomalies worthy of drill testing.

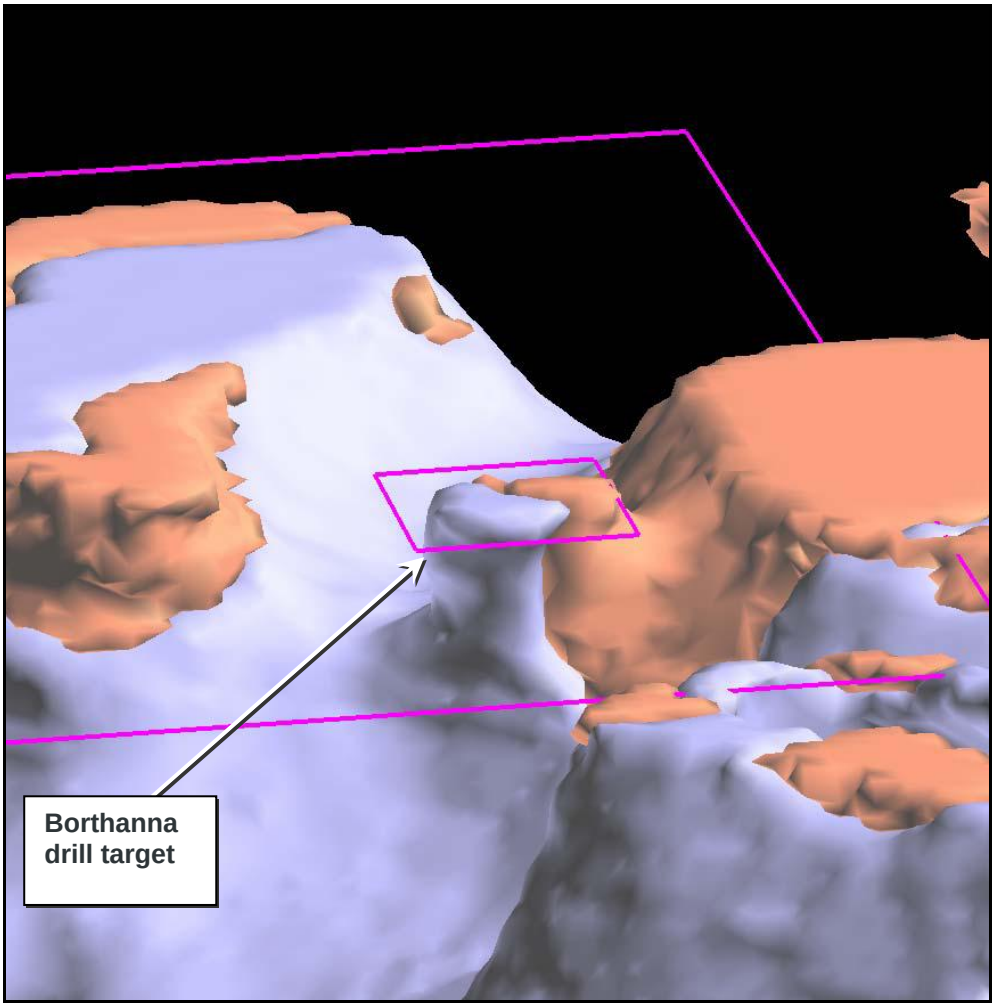


Figure 5 3D representation of the Borthanna gravity / magnetic anomaly – contoured iso-surfaces

Rusty Brown	hematite
Blue / Grey	magnetite

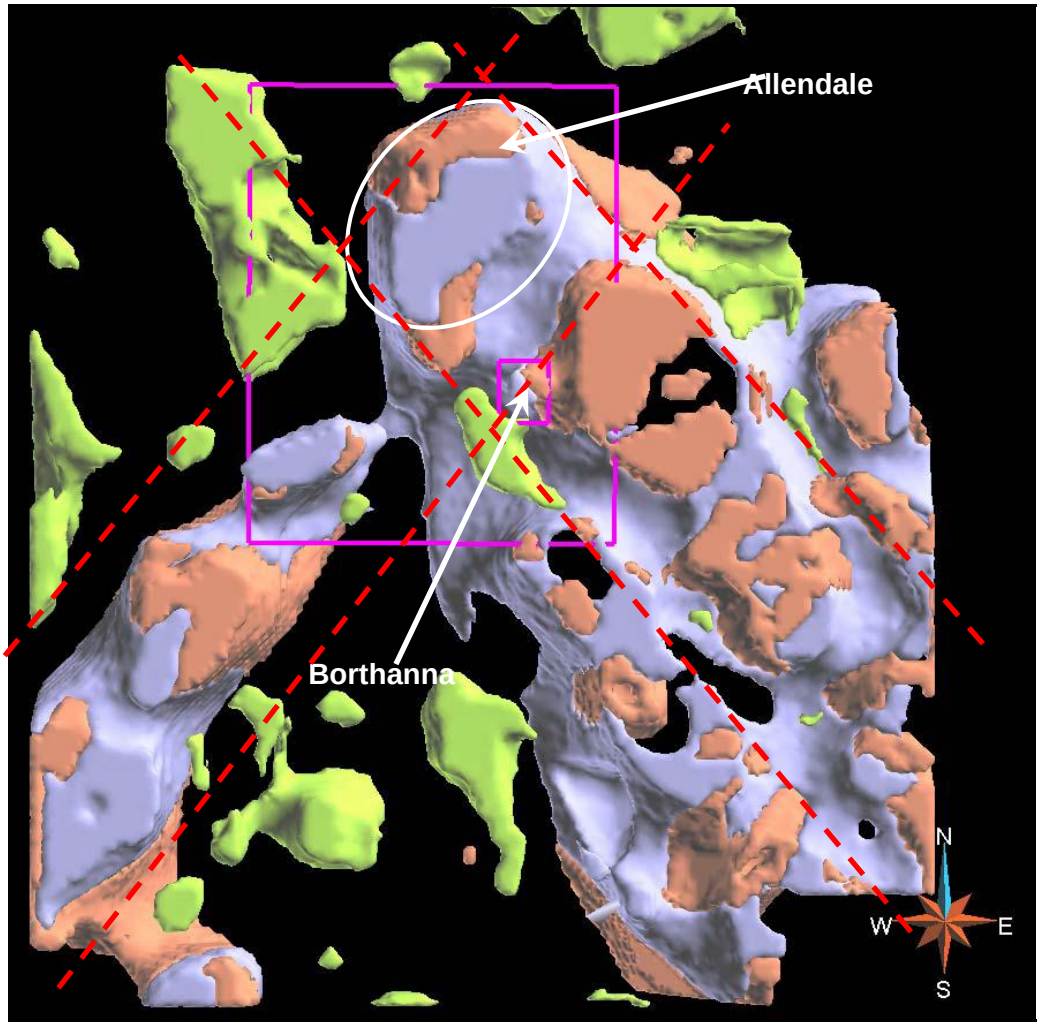


Figure 6 Regional gravity / magnetic modelling showing the Borthanna and Allendale prospects at the intersection of interpreted northeast and northwest structural zones – contoured iso-surfaces

Rusty Brown	hematite
Blue / Grey	magnetite
Green	sericite

4.3 Regional Gravity Survey

Haines Surveys were awarded the contract to undertake a regional gravity survey over large -scale anomalies identified in the Allendale area and adjacent to the eastern boundary of EL2936. The survey was completed in September 2006 and comprised 633 stations positioned on an 800m by 800m grid. The area of the gravity survey is shown on **Figure 7**. All survey data and a logistics report are included in the digital appendix.

The area of the gravity survey in relation to a digital elevation model is shown on **Figure 8** and in relation to regional magnetic data on **Figure 9**.

The data were processed by Southern Geoscience with an image of the Bouguer Gravity – Contour Interval 1mGal - shown on **Figure 10** and high pass filtered Bouguer Gravity – Contour Interval 0.5mGal- shown on **Figure 11.**

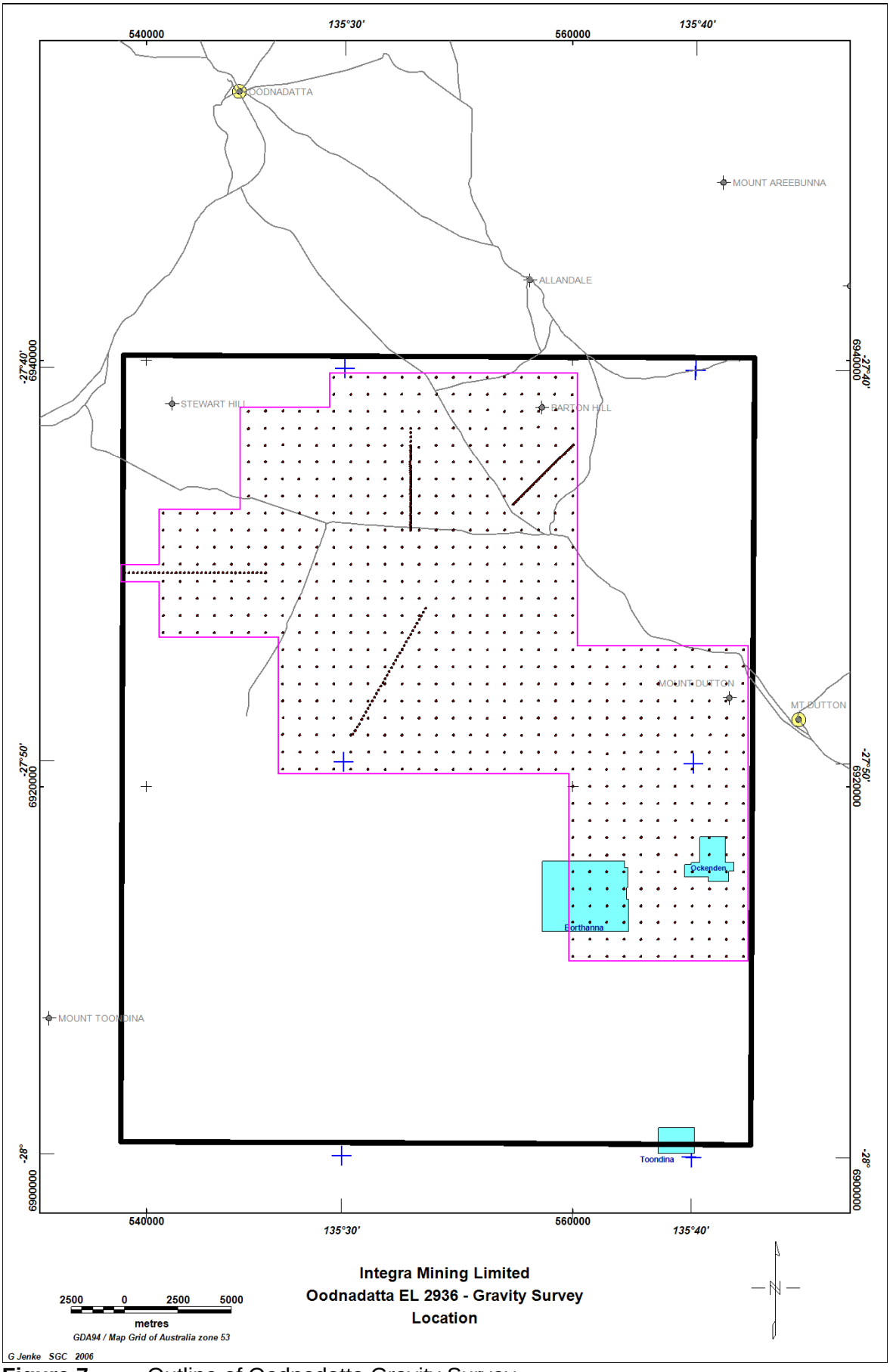


Figure 7 Outline of Oodnadatta Gravity Survey

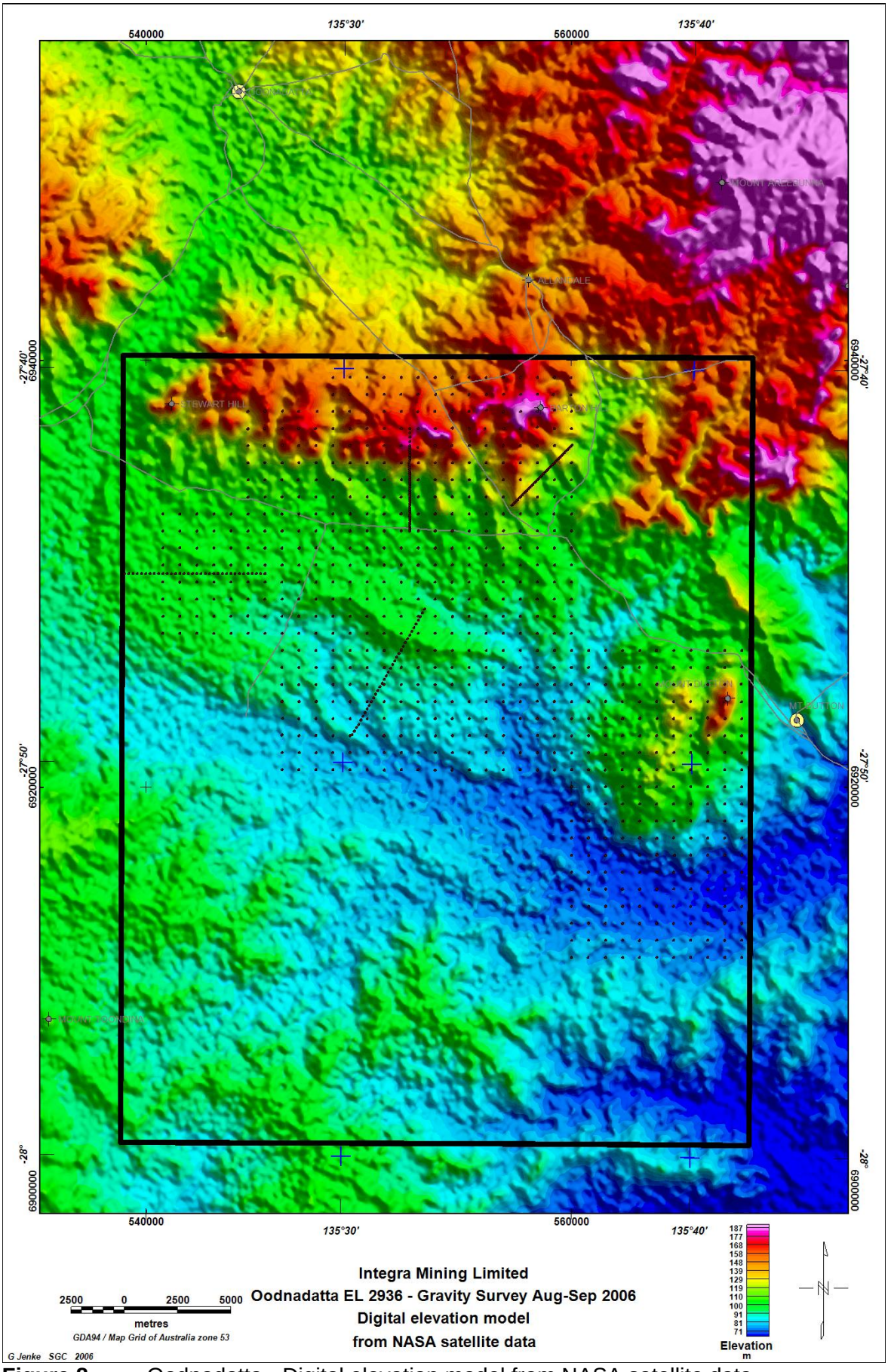


Figure 8 Oodnadatta - Digital elevation model from NASA satellite data

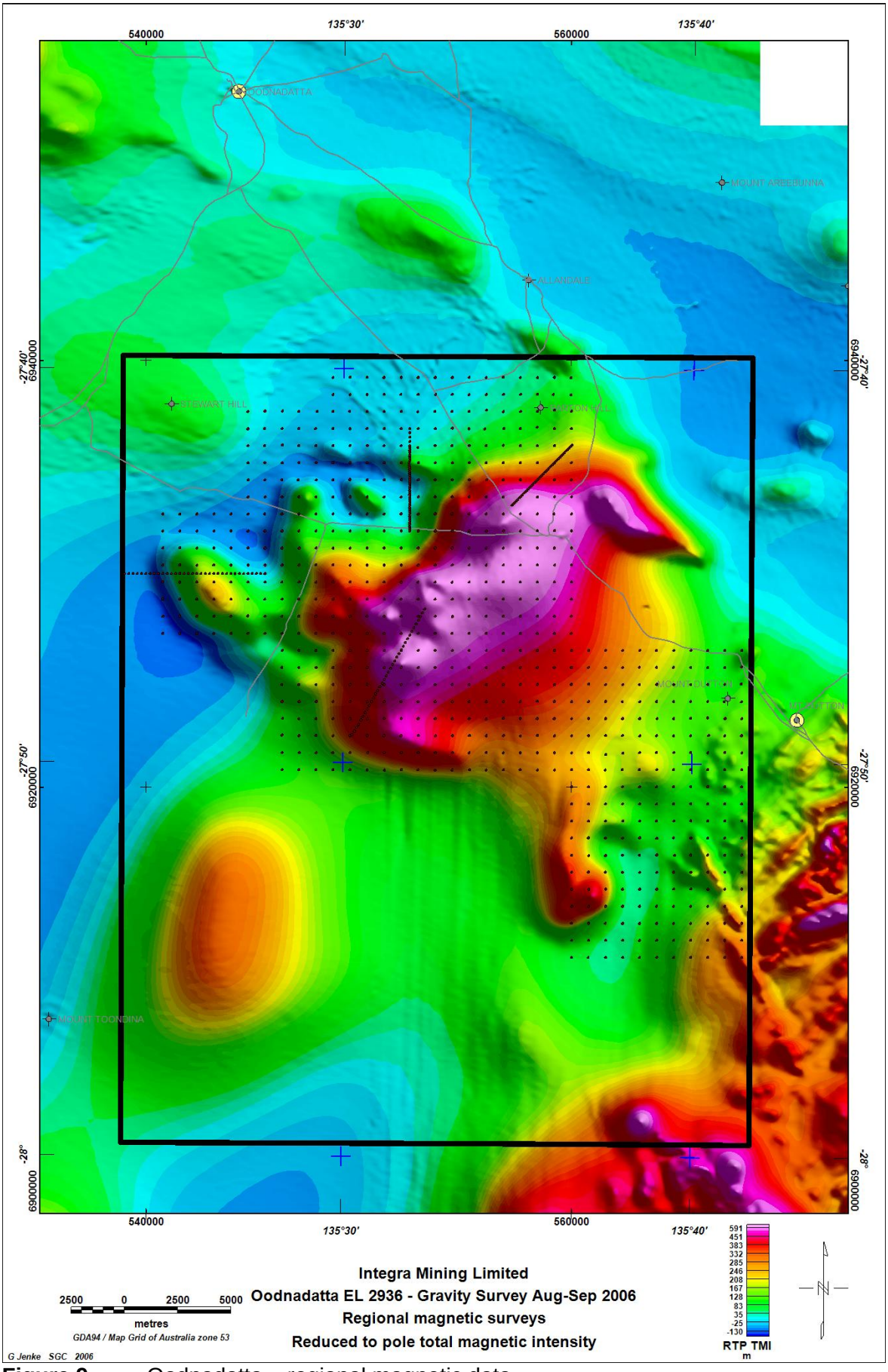


Figure 9 Oodnadatta – regional magnetic data

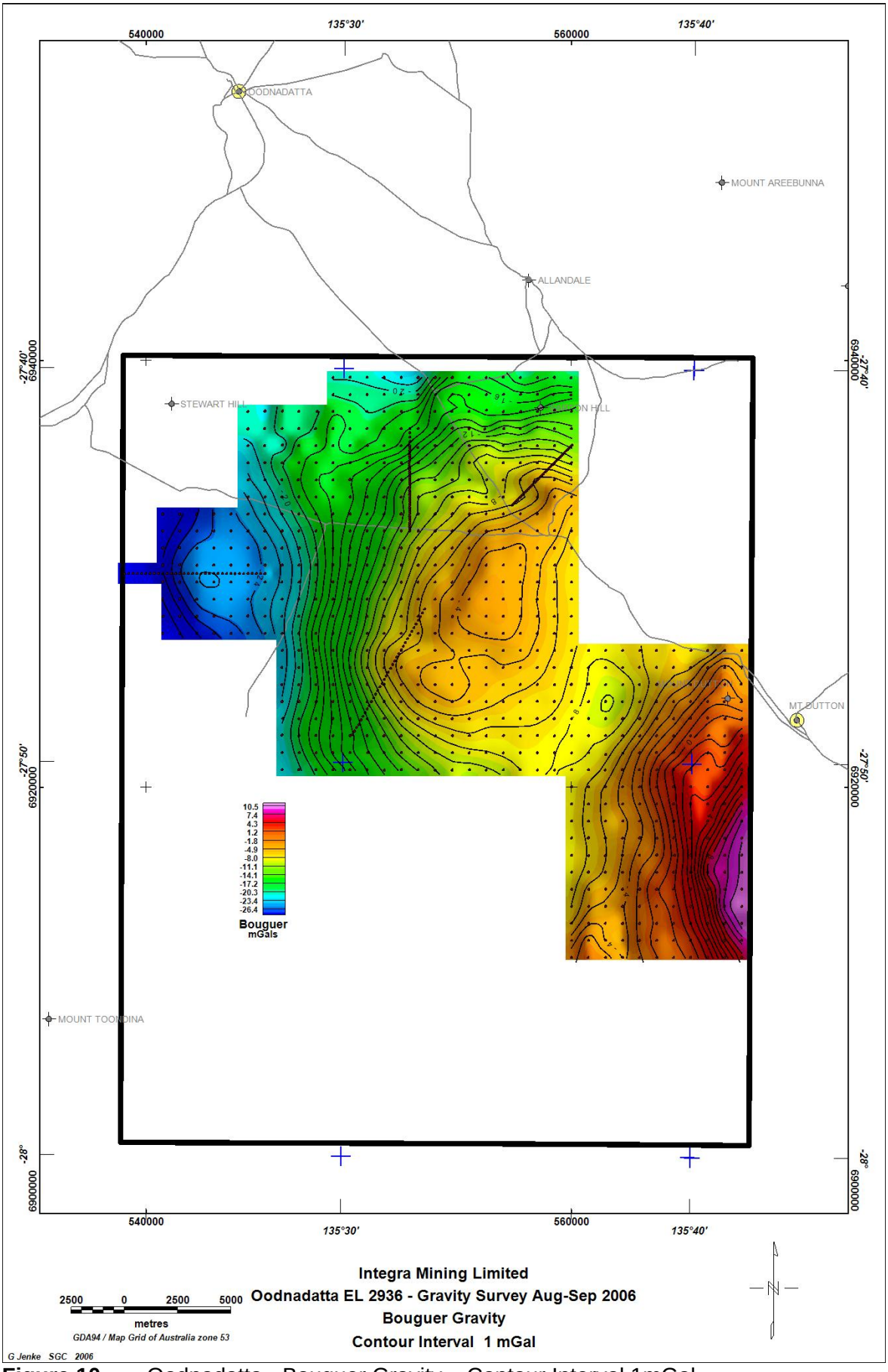


Figure 10 Oodnadatta - Bouguer Gravity – Contour Interval 1mGal

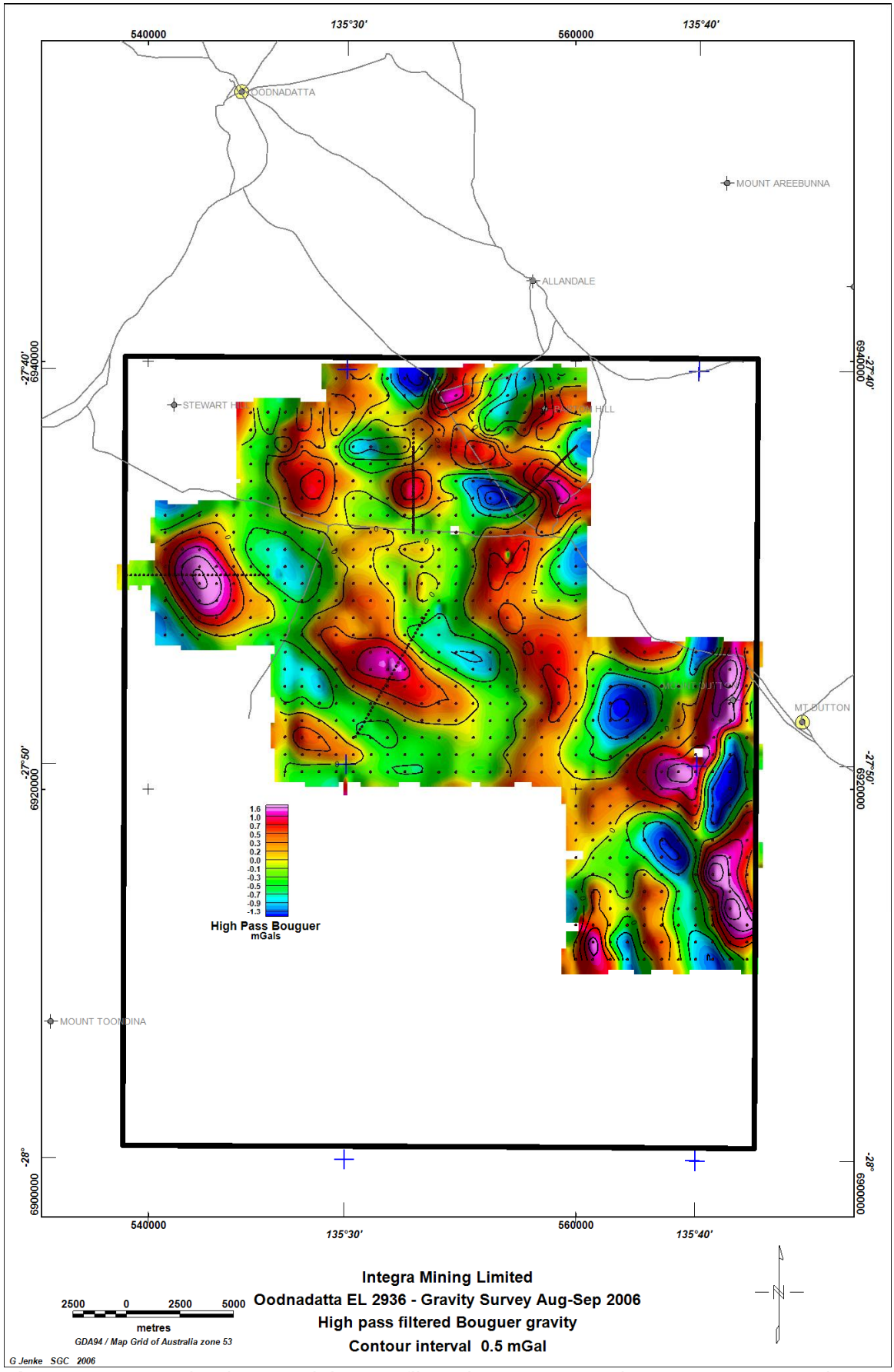


Figure 11 Oodnadatta – High pass filtered Bouguer Gravity – Contour Interval 0.5mGal

5.0 EXPLORATION COMPLETED 2006 / 2007 BY BARRICK GOLD OF AUSTRALIA LIMITED

(Data - see Government of South Australia Mineral Resources Website)

During the first quarter of 2007 an airborne magnetic survey and a ground gravity survey were conducted over EL 2936 for Barrick Gold of Australia Limited. Digital data and logistic reports for both surveys are included in the digital appendix.

In January 2007 UTS Geophysics carried out a detailed airborne magnetic, radiometric and digital terrain survey covering the area of the Mt Carulina and Oodnadatta Projects. The magnetic survey was flown at a 20m flight height on 150m spaced lines. The survey data acquisition specifications for the Oodnadatta area are outlined in **Table 1**.

Table 1 Barrick Airborne Magnetic Survey Data

Survey	Line Spacing	Line Direction	Tie Line Spacing	Tie Line Direction	Sensor Height	Total Line km
Oodnadatta	150m	000-180	1500m	090-270	20m	2732

In March-April 2007 Haines Surveys undertook a gravity survey for Barrick at EL 2936. The survey was conducted at 800m station spacing with a core of 400m spacing in the central northern portion of the tenement. In total, 1095 gravity stations were surveyed.

The results of the two surveys are being assessed and will be integrated with all other available data to provide an interpretation that will be used for identifying drill targets.

6.0 EXPENDITURE STATEMENT

During the 2006/2007 reporting period, exploration was completed by both Integra Mining Limited and Barrick Gold of Australia Limited for a combined expenditure of $367,031.39.

The expenditure incurred by Integra Mining Limited over the reporting period for EL 158/2936 is summarised in **Table 1**.

Table 2: Integra Expenditure on EL 158/2936

Integra Mining Limited Expenditure on EL 158/2936 From 26th April 2006 to 25th April 2007	
Details	**$ (Excl GST)**
Geology	22,114.71
Geophysics	61,452.50
Staff	10,531.25
Drilling & Earthworks	241,665.70
Logistics	26,903.23
Rates & Rental Fees	4,364.00
TOTAL	

The expenditure incurred by Barrick Gold of Australia Limited over the reporting period for EL 158/2936 is summarised in **Table 3**.

Table 3: Barrick Expenditure on EL 158/2936

Barrick Gold of Australia Limited Expenditure on Tenement 158/2936 From 26th April 2006 to 25th April 2007	
Details	**$ (Excl GST)**
Geophysics	151,318.00
Salary & Wages	91,482.00
Logistics	26,640.00
Field Support & Camp Supplies	5,200.00
Employee Benefits	3,239.00
Office Costs	2,024.00
Tenement Costs	255.00
TOTAL	

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Integra Mining Limited, 2006 Quarterly Reports.

HOLE ID	BOD001			**Date Started**		27/05/2006	**Drilling Method**	mud rotary	**Hole/Core diameter**	
Dip	-90	**Azimuth**	-	**Date Completed**			**Rig Type**	TH60 Ingersoll Rand	**Logged By**	W. Clayton
Coordinates	6914500**N**	560700**E**	**Datum**	AGD84		**RL**	~72		**Drilling Contractor**	Underdale

Depth from	Depth to	core run	recovery %	Weathering	Lithocode	Description	Structure	Alteration
0	3		N/A	strong	Qrt	laterite gravel scree		
3	6		N/A	strong	Qrt	lateritic gravel and silcrete fragments		
6	9		N/A	moderate	Klb	dark grey-black fg siliceous/carbonaceous shale saprock		
9	12		N/A	fresh	Klb	dark grey-black fg carbonaceous shale fresh - **Bulldog Shale**		
12	15		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
15	18		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
18	21		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
21	24		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
24	27		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
27	30		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
30	33		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
33	36		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
36	39		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
39	42		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
42	45		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
45	48		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
48	51		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
51	54		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
54	57		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
57	60		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
60	63		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
63	66		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
66	69		N/A	fresh	Klc	med. grey-green friable fine grained sandstone **AQUIFER** - >40klitres/hr & 40psi shut-in		
69	72		N/A	fresh	Klc	medium grey-green friable fine grained sandstone - **Cadna-Owie Fm**		
72	75		N/A	fresh	Klc	as above - shale contaminated sample		
75	78		N/A	fresh	Klc	as above - shale contaminated sample		
78	81		N/A	fresh	Klc	as above - shale contaminated sample		
81	84		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
84	87		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
87	90		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
90	93		N/A	fresh	Klc	fine grained sanadstone with pyritic matrix - shale contamination		
93	96		N/A	fresh	Klc	pale grey unconsolidated sand, chips of green-grey fg micaceous sandstone		
96	99		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
99	102		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
102	105		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
105	108		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		

HOLE ID	BOD001				**Date Started**	27/05/2006	**Drilling Method**	mud rotary/NQ2	**Hole/Core diameter**	6"/NQ2
Dip	-90	**Azimuth**	-		**Date Completed**		**Rig Type**	TH60 Ingersoll Rand	**Logged By**	W. Clayton
Coordinates	6914500**N**	560700**E**	**Datum**		AGD84	**RL** ~72		Longyear LF90	**Drilling Contractor**	Underdale

Depth from	Depth to	core run	recovery %	Weathering	Lithocode	Description	Structure	Alteration
108	111		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
111	114		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
114	117		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
117	120		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
120	123		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
123	126		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
126	129		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
129	132		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
132	135		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
135	138		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
138	141		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
141	144		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
144	147		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone - end of precollar		
144.70	147.10	2.4	8%	fresh	Jua	recovered cone of tri-cone roller bit, very fractured massive quartz sandstone		
147.10	159.00	11.9	0%		Jua	**Algebuckina Sandstone??**		
159.00	162.00	3	80%	moderately weath	Pl	carbonaceous silstone with sand layers, finely laminated 80-90 deg to CA, friable		
162.00	165.00	3	78%	moderately weath	Pl	**Mt. Toondina Fm**		
165	168	3	13	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
168	183	15	100	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
183	186	3	79	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
186	237	51	100	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
237	243		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
243	246	3	6	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
246	251.6		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
251.6	252		100	moderately weath	Pl	Friable poorly consolidated sandstone		
252	255	3	13	moderately weath	Pl	Friable poorly consolidated sandstone		
255	258	3	50	moderately weath	Pl	Friable poorly consolidated sandstone		
258	260	2	93	moderately weath	Pl	Friable poorly consolidated sandstone		
260	261		93	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
261	262	3	100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
262	264		100	moderately weath	Pl	Friable poorly consolidated sandstone		
264	267	3	100	moderately weath	Pl	Dark grey carbonaceous siltstone		
267	267.7		100	moderately weath	Pl	Dark grey carbonaceous siltstone		
267.7	280.7		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
280.7	283		100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
283	301		100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		

HOLE ID	BOD001				**Date Starte**	27/05/2006	**Drilling Method**	mud rotary/NQ2	**Hole/Core diameter**	6"/NQ2
Dip	-90	**Azimuth**	-		**Date Completed**		**Rig Type**	TH60 Ingersoll Rand	**Logged By**	W. Clayton
Coordinates	6914500**N**	560700**E**	**Datum**		AGD84	**RL**	~72		**Drilling Contractor**	Underdale

Depth from	Depth to	core run	recovery %	Weathering	Lithocode	Description	Structure	Alteration
301	303		100	moderately weath	Pl	Grey carbonaceous sandstone, with lesser carbonaceous siltstone		
303	306	3	100	moderately weath	Pl	Grey carbonaceous sandstone, with lesser carbonaceous siltstone		
306	309	3	100%	moderately weath	Pl	Friable poorpy consolidated sandstone		
309	312	3	15%	moderately weath	Pl	Friable poorpy consolidated sandstone		
312	315	3	81%	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
315	318	3	72	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
318	321	3	28	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
321	324	3	106	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
324	326	2	40	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
326	327	1	150	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
327	330	3	113	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
330	333	3	100	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
333	335.5	2.5	100	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		

HOLE ID	BOD001			**Date Started**		27/05/2006	**Drilling Method**	Mud Rotary	**Hole/Core diameter**
Dip	-90	**Azimuth**	-	**Date Completed**			**Rig Type**	TH60 Ingersoll Rand	**Logged By** W. Clayton
Coordinates	6914500**N**	560700**E**	**Datum**	AGD84		**RL**	~72		**Drilling Contractor** Underdale

Depth from	Depth to	core run	recovery %	Weathering	Lithocode	Description	Structure	Alteration
0	3		N/A	strong	Qrt	laterite gravel scree		
3	6		N/A	strong	Qrt	lateritic gravel and silcrete fragments		
6	9		N/A	moderate	Klb	dark grey-black fg siliceous/carbonaceous shale saprock		
9	12		N/A	fresh	Klb	dark grey-black fg carbonaceous shale fresh - **Bulldog Shale**		
12	15		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
15	18		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
18	21		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
21	24		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
24	27		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
27	30		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
30	33		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
33	36		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
36	39		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
39	42		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
42	45		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
45	48		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
48	51		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
51	54		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
54	57		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
57	60		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
60	63		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
63	66		N/A	fresh	Klb	dark grey-black carbonaceous shale with minor arenitic bands		
66	69		N/A	fresh	Klc	med. grey-green friable fine grained sandstone **AQUIFER** - >40klitres/hr & 40psi shut-in		
69	72		N/A	fresh	Klc	medium grey-green friable fine grained sandstone - **Cadna-Owie Fm**		
72	75		N/A	fresh	Klc	as above - shale contaminated sample		
75	78		N/A	fresh	Klc	as above - shale contaminated sample		
78	81		N/A	fresh	Klc	as above - shale contaminated sample		
81	84		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
84	87		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
87	90		N/A	fresh	Klc	medium grey-green friable fine grained sandstone		
90	93		N/A	fresh	Klc	fine grained sanadstone with pyritic matrix - shale contamination		
93	96		N/A	fresh	Klc	pale grey unconsolidated sand, chips of green-grey fg micaceous sandstone		
96	99		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
99	102		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
102	105		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
105	108		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
108	111		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
111	114		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
114	117		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
117	120		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
120	123		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
123	126		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
126	129		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
129	132		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
132	135		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
135	138		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
138	141		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
141	144		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone		
144	147		N/A	fresh	Klc	unconsolidated sand, rare chips of fg micasceous sandstone - end of precollar		
144.70	147.10	2.4	8%	fresh	Jua	recovered cone of tri-cone roller bit, very fractured massive quartz sandstone		
147.10	159.00	11.9	0%		Jua	**Algebuckina Sandstone??**		
159.00	162.00	3	80%	moderately weath	Pl	carbonaceous silstone with sand layers, finely laminated 80-90 deg to CA, friable		
162.00	165.00	3	78%	moderately weath	Pl	**Mt. Toondina Fm**		
165	168	3	13	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
168	183	15	100	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
183	186	3	79	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
186	237	51	100	moderately weath	Pl	Carbonaceous siltstone grading to sandstone, friable and finely laminated		
237	243		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
243	246		6	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
246	251.6		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
251.6	252		100	moderately weath	Pl	Friable poorly consolidated sandstone		
252	255		13	moderately weath	Pl	Friable poorly consolidated sandstone		
255	258		50	moderately weath	Pl	Friable poorly consolidated sandstone		
258	260		93	moderately weath	Pl	Friable poorly consolidated sandstone		
260	261		93	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
261	262		100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
262	264		100	moderately weath	Pl	Friable poorly consolidated sandstone		
264	267		100	moderately weath	Pl	Dark grey carbonaceous siltstone		
267	267.7		100	moderately weath	Pl	Dark grey carbonaceous siltstone		
267.7	280.7		100	moderately weath	Pl	Generally very weak, moderately weathered carbonaceous siltstone		
280.7	283		100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
283	301		100	moderately weath	Pl	Grey carbonzceous siltstone, weakly laminated grades up to sandstone		
301	303		100	moderately weath	Pl	Grey carbonaceous sandstone, with lesser carbonaceous siltstone		
303	306	3	100	moderately weath	Pl	Grey carbonaceous sandstone, with lesser carbonaceous siltstone		
306	309	3	100%	moderately weath	Pl	Friable poorpy consolidated sandstone		
309	312	3	15%	moderately weath	Pl	Friable poorpy consolidated sandstone		
312	315	3	81%	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
315	318	3	72	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
318	321	3	28	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
321	324	3	106	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
324	326	2	40	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
326	327	1	150	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
327	330	3	113	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
330	333	3	100	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		
333	335.5	2.5	100	moderately weath	Pl	Black lignite, weak lustre on fracture surfaces		

Easting	Northing	Final Depth
560700E	6914500N	335.5

Depth	Azimuth	Dip
0	360	-90
170	123.5	-79.5
270	84.5	-77.4

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Mira Geoscience

… modelling the earth

Potential Fields Modelling, Borthanna, WA

Procedural Report from Mira Geoscience Ltd.

For

Integra Mining Pty. Ltd.

July 2006

Overview

The overall context of this project was relatively simple; use UBC-GIF's Mag3D and Grav3D code to complete 'unconstrained' inversions of the magnetic data over the Borthanna area. Upon completion of the inversions, classify volumes of the earth based on a combination of density and magnetic susceptibility properties.

This document provides a brief account of the procedure (data preparation and inversion) and the results. A set of deliverables accompany this briefing and it is recommended that these deliverables be analyzed in conjunction with reading this report.

Potential Fields Modelling Software

Potential field inversion produces a property model (density or susceptibility) that is consistent with the data. This means that if the magnetic or gravity response of the derived model is computed it will match the observed data (to within the originally nominated target misfit). In this study, potential field inversion was completed using UBC-GIF's Grav3D and Mag3D suite of software. In this context, the region of interest is divided into a set of 3D cuboidal cells by using a 3D orthogonal mesh and each cell assumes a constant density or susceptibility. The inversion process optimises the value of the property associated to each cell. Density and susceptibility inversion are implemented independently.

The interpreter should be mindful that the result of inversion is not unique. For a potential field survey, there are many models that would satisfy the data. Constraints are introduced to the inversion to produce a more meaningful result that conforms to our expectations. 'Unconstrained inversion' commonly refers to inversion in the absence of geological constraints, but such inversions do still implement numerical constraints. For example, since potential field data carries no information about the depth of the source that created it, in the absence of constraints, the potential field anomaly could be represented by a layer of magnetic/density sources at the surface. In the context of Mag3D and Grav3D inversion, 'geologically unconstrained' inversion still imposes constraints that regulate smoothness and how the sensitivity of model cells is biased with depth.

Some data preparation (gravity terrain and basement unconformity correction) was completed using VPmg, a potential fields forward modelling and inversion program by Fullagar Geophysics. VPmg represents the sub-surface as a set of close-packed vertical rectangular prisms. Within each prism any number of geological interfaces can be defined (e.g. top of basement) and a density (or susceptibility) assigned to each geological unit. There is no fixed vertical discretisation imposed on the position of the interfaces, i.e. geological units can be as thin as required and small lateral variations in elevation from prism to prism are represented in the model. This style of parameterisation is well suited to regolith and terrain corrections and is implemented accordingly in this project. Additional details regarding VPmg can be provided upon request.

Data

The study was at a regional scale; approximately 75km by 100km at 1km by 1km by 0.5kms resolution. TMI (Total Magnetic Intensity), gravity and DEM (Digital Elevation Model) data were supplied as 80m resolution grids. Actual gravity station data values were supplied as column ascii.

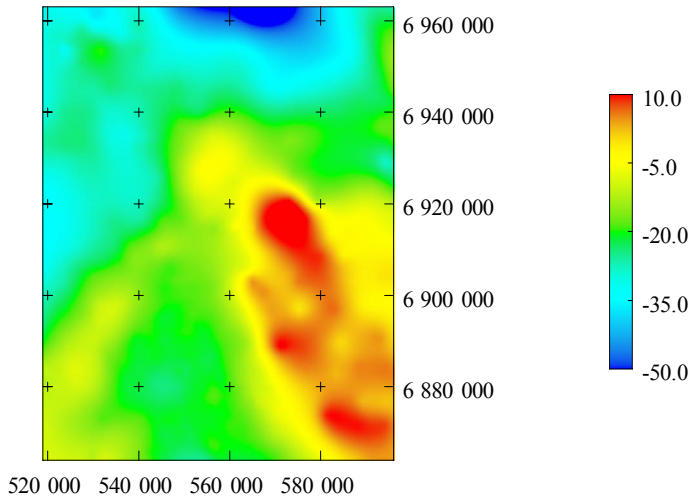


Figure 1: Bouguer (2.67g/cc) grid (mgal), image grid cell size = 80m.

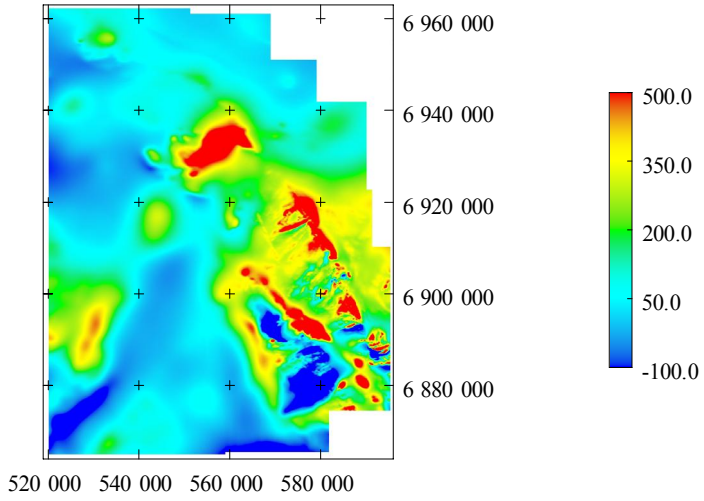


Figure 2: TMI (Total Magnetic Intensity) grid (nT), image grid cell size = 80m.

Both data sets required preparation for inversion. Considerations included cover corrections for the gravity data, upward continuations for the magnetics and re-sampling of both data sets to a resolution appropriate for the inversions. Specific data reduction steps for each data set are outlined below.

For gravity data, the sequence was…

1. Assess actual gravity station elevations with respect to the gravity stations. Adjust correspondence of gridded DEM where necessary.
2. Construct a high resolution (80m) DEM/basement model. Compute the response of the model assuming 2.4g/cc for the cover and 2.67g/cc for the basement at the actual gravity station locations. The basement model was constructed from supplied regional scale depth to basement contours. Lithofire proposed the density values.
3. Remove the computed response from the free air gravity data – this not only terrain corrects the data (in a manner more accurate than bouguer corrections), but also takes into account the layer of cover overlying the basement.
4. Resample (grid) the corrected response to 1000m resolution.
5. Drape the data across the topography.
6. Export data for Grav3D inversion.

For magnetics data, the sequence was….

1. Upward continue the 80m resolution grid of data by 1000m.*
2. Resample (grid) the upward continued data to 1000m resolution.
3. Drape the data a height of 1080m above the DEM (nominal flight height + the continuation distance).
4. Adjust 'background' level of data **
5. Export for Mag3D inversion (Ambient magnetic field = 55900nT, I = -60.4, D = 6.1).

* Notionally it is desirable to avoid upward continuation if it is not necessary. For the gravity inversion, the results without upward continuation were satisfactory and did not prompt the need for upward continuation. Upward continuation (or similar filtering technique) suppresses anomaly wavelengths shorter than what can be accounted for given the model resolution. Upward continuation effectively produces a data set as though it is recorded at a higher elevation (i.e. separated further from the magnetic sources). It is typical to upward continue the data an amount equal to the cell size used for inversion – in this case 1000m. In this instance Fourier (frequency domain) filtering was implemented to upward continue the data. More robust methods (e.g. equivalent source) could be implemented to upward continue the data, but such processing efforts were beyond the scope of this project.

** UBC-GIF inversion results are sensitive to the 'background' level of data submitted to inversion. Generally, if a constant value is added to all data, the 'background' value increases. Through inversion, this translates to additional density/susceptibility that must be introduced in the model to account for the increased data amplitudes. Conversely, if the background level is lowered, the required property amplitudes in the model must be reduced and in some instance become negative. This situation is complicated by the fact that Mag3D (UBC-GIF) only permits positive susceptibilities during inversion. Coupled with the dipolar nature of the magnetic response, the background level of the TMI data often need to be adjusted to optimise the inversion result.

Results Overview

The unconstrained inversions were completed and the target RMS data misfit achieved (0.25mgal and 10nT respectively). The data submitted to inversion and calculated from the inverted models are provided as Gocad VSets.

Potential field anomalies near the edges of survey and not fully contained within survey may require density/susceptibility distribution beyond the extents of the surveys to develop during inversion. An appropriate buffer (~10-30km of cells in this case) was introduced around the model volume for inversion. Even so, derived density and susceptibility values near the edges of the survey (particularly near surface) should be interpreted cautiously. Because cells beyond the extents of data are insensitive to inversion, the derived property values for such cells have been removed to avoid misinterpretation.

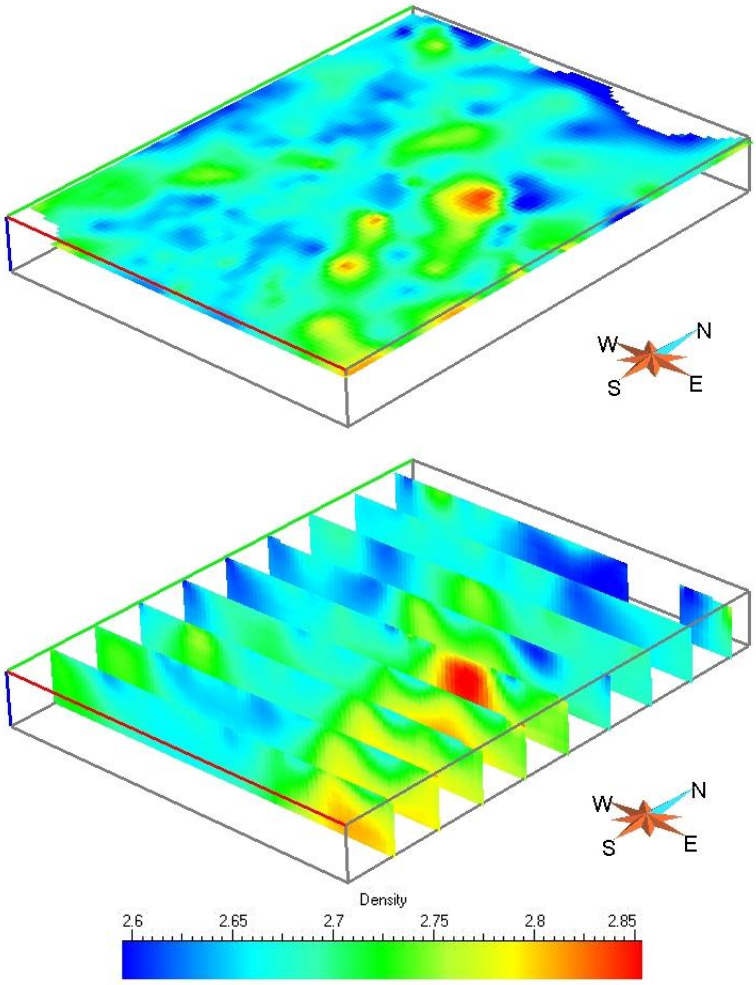


Figure 3: Slices through the density model (g/cc).

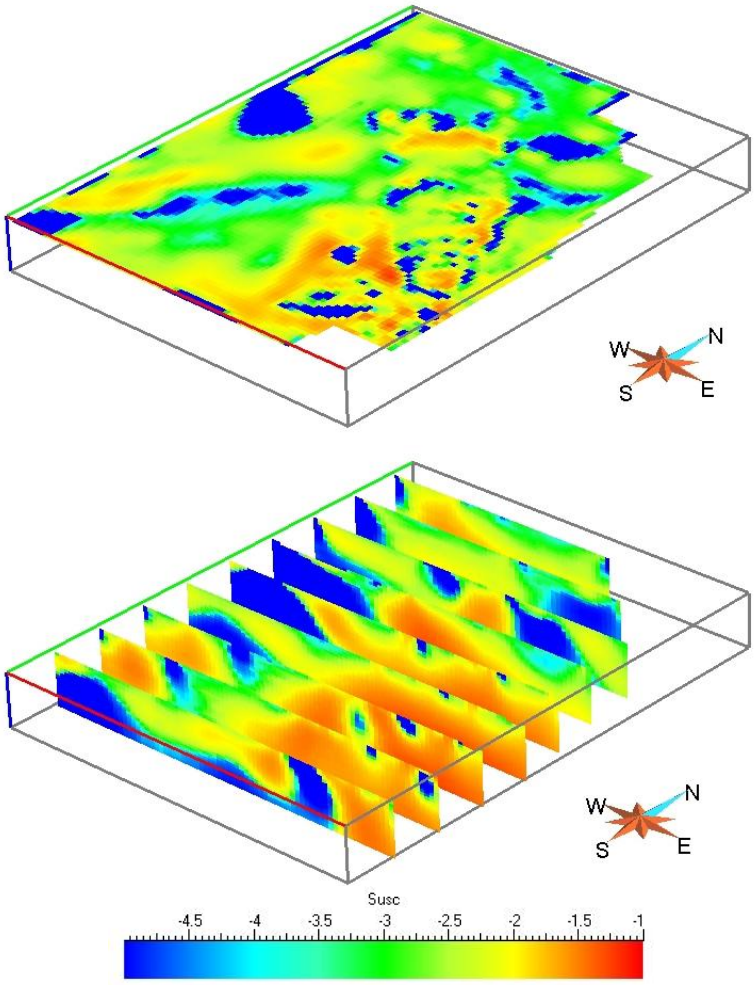


Figure4: Slices through the susceptibility model (log10(SI)).

These results are typical of geologically unconstrained inversion; the inversion infers lateral variations in property reasonably well tending to put longer wavelength features at depth, vertical variations throughout the model are typically smeared.

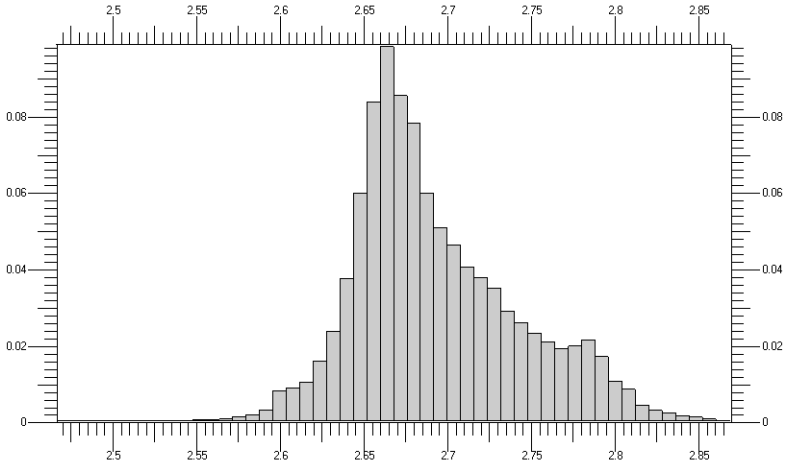


Figure 5: Histogram of model densities (g/cc).

For gravity inversion, a background density of 2.67g/cc was assumed for the pre-processing. Subsequently the resulting densities are distributed around 2.67g/cc (i.e. the mode). The distribution is asymmetric with a sub-population at about 2.79g/cc (overlapping with the hematite classification).

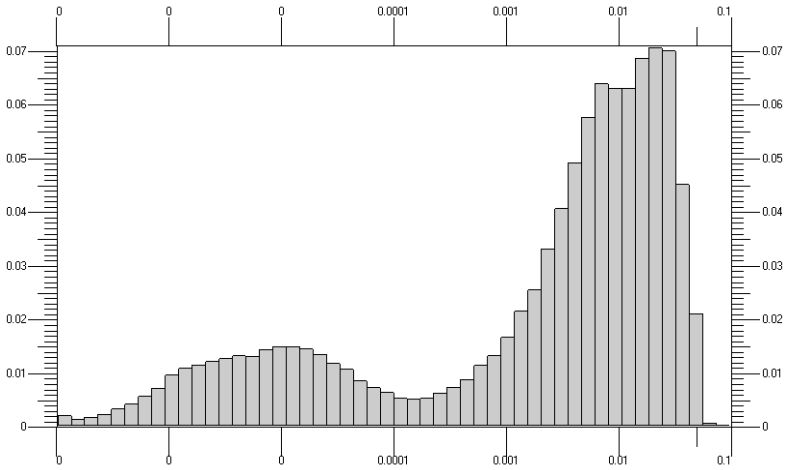


Figure 6: Histogram of model densities (SI).

Inspection of the susceptibility histogram indicates that two primary populations of susceptibility values have developed centered at approximately 1e-5SI and just over 1e-2 SI. Curiously, the range between 1e-4 and 1e-3 is the main classification criterion for the fresh rock, the sericite and the haematite, which actually represents a low in the distribution.

Classification of sericite, magnetite, haematite and fresh rock was completed based on supplied rock property information and the two inversion results. Isosurfaces were constructed for visualisation of block model regions satisfying both the density and susceptibility criteria. These isosurfaces are provided in Gocad format.

An assessment of the iso-surfaces indicated the need for perhaps adjusting the classification criteria for the rock types. For example, the magnetite included all densities at 2.67g/cc (the mode) which even when coupled with the magnetic susceptibilities implied that much of the terrane comprised magnetite. Subsequently, as an additional investigation, the classification criteria were altered (see Table 1a & 1b) to provide more interpretable iso-surfaces from the derived rock property data. From the supplied data, this is readily justified in that it is difficult to recover 'absolute rock' properties with certainty from the potential field data. The amended iso-surfaces have been presented to Lithofire/Integra prior to finalization of the project. Geological reconciliation of these amended surfaces is beyond the scope of this project.

Table 1a: Supplied classification criteria

	Density (g/cc)		Susceptibility (SI)	
Unit	**Min**	**Max**	**Min**	**Max**
Fresh Rock	2.65	2.75	0.0001	0.001
Sericite	2.6	2.65	0.0001	0.001
Haematite	2.75	2.9	0.0001	0.001
Magnetite	2.65	2.75	0.001	0.03

Table 1b: Amended criteria for building iso-surfaces.

	Density (g/cc)		Susceptibility (SI)	
Unit	**Min**	**Max**	**Min**	**Max**
Fresh Rock	2.65	2.75	0.0002	0.005
Sericite	2.6	2.65	0.0002	0.005
Haematite	2.725	2.9	0.0000007	0.005
Magnetite	2.7	2.75	0.005	0.03

Except for magnetite, the density classification remained the same. Generally, better classification occurred if the susceptibility ranges were increased, and if for Haematite, the lower bound was decreased. Scope potentially exists for further optimising the classification criteria, however this is beyond the scope of this project.

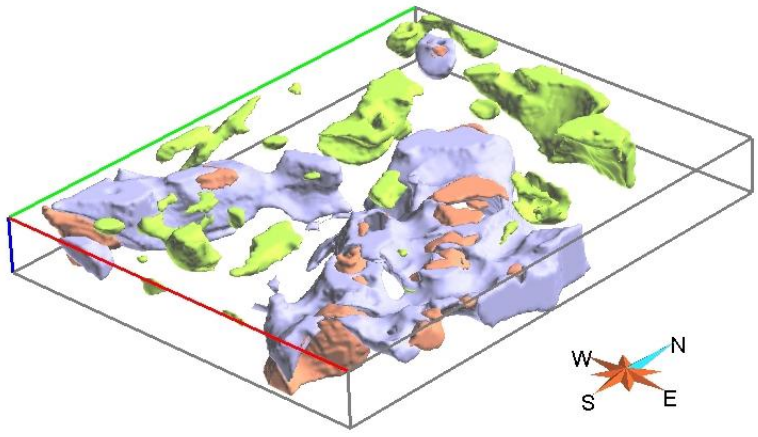


Figure7: Iso-surfaces of the different classifications; rusty brown = haematite, blue/grey = magnetite and green = sericite. Included iso-surfaces have been optimised for visualisation (filtered) - the original cell classifications defined directly from the inversion results are stored as regions on the Gocad voxet.

Finally, as requested, simple contours were generated representing intersections of the Magnetite and Haematite surfaces shown in Figure 7 with a 500m drape beneath the topography. These 'contours' (depicted in Figure 8) are provided in Gocad format and as dxf files.

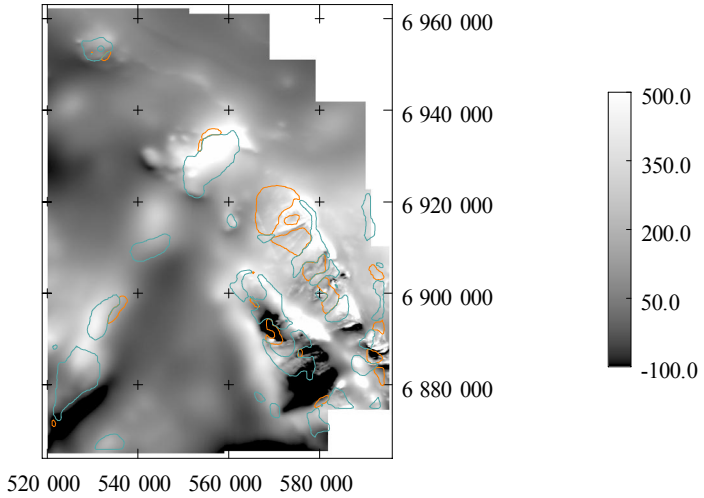


Figure 8: Simple 'contours' generated from the intersection of the Haematite and Magnetite surfaces of Figure 7 and a 500m drape beneath the topography. Rusty brown = haematite and blue/grey = magnetite. Background grayscale image is the TMI (Total Magnetic Intensity) grid (nT), image grid cell size = 80m.

Summary

Geologically unconstrained gravity and magnetics inversion were completed over the Borthanna area. Gravity inversion produced a density model that fits the data to within 0.25mgal (RMS), magnetics inversion produced a magnetic susceptibility model that fits the data to within 10nT (RMS).

The derived density and susceptibility properties were used as a basis for classifying different types of alteration. In this case, the 3D mapping of sericite, haematite and magnetite was tested. The results indicate scope for enhancing interpretative value by cross analysing the results of magnetics and gravity inversion, however, in light of uncertainties related to absolute densities or susceptibilities derived through inversion the robustness of the classification criteria from area to area may need to be adjusted.

Finally, this approach has implemented geologically unconstrained inversion. It should be noted that ambiguity is implicit in potential field interpretations and the key to producing geologically realistic inversions is through the implementation of geological constraints (e.g. in the form of drill hole information, mapping or a 3D conceptual or geological starting model). Both the UBC-GIF suite of algorithms and VPmg offer a range of options for implementing geological constraints, Mira Geoscience can provide services to meet your needs in either of these applications.

References

VPmg

Fullagar et al.,1999, Drilling-constrained 3D gravity interpretation, Exploration Geophysics, 31.
Pears et al. , 2001, 3D gravity modeling and interpretation for the 1:250000 Boulia map sheet, Queensland., ASEG 15th Geophysical Conference and Exhibition, Brisbane.
Fullagar et al., 2003, 3D gravity & aeromagnetic inversion, Pillara region, W.A., ASEG 16th Geophysical Conference and Exhibition, Adelaide.

UBC-GIF

Li, Y., and Oldenburg, D.W., 1996, 3D inversion of magnetic data: Geophysics, 61, 394-408.
Li, Y., and Oldenburg, D.W., 1998, 3-D inversion of gravity data: Geophysics, 63, 109-119.

Appendix A: Outline of digital deliverables

All deliverables are provided in Gocad (2.1.4) format.

Key Deliverables include:

- A Gocad voxet containing the inverted density and magnetic susceptibility properties. This voxet also contains regions that meet the amended classification criteria.
- Computed responses of the inverted density and magnetic susceptibility models (Gocad VSets).
- Digitised contours from the regional depth to basement map correctly located and draped beneath the topography.
- A basement unconformity surface (Gocad Surface) constructed from the depth contours.
- Basement/DEM corrected gravity data (Gocad VSet)
- Isosurfaces representing classifications of fresh rock, sericite, haematite and magnetite. Isosurfaces exist for both the original classifications supplied by Lithofire in the IOGC presentation and the amended classifications (See Table 1 within the report).
- 'Contours' representing the intersection between the amended magnetite and haematite isosurfaces and a 500m drape beneath the topography. These are also supplied as dxf files.

HAINES SURVEYS

GRAVITY SURVEY SPECIALISTS

JOB 0651

OODNADATTA GRAVITY SURVEY

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Introduction

A regional GPS gravity survey designated as Oodnadatta Gravity Survey has been carried out in an area approximately 30km SE of Oodnadatta in South Australia. The survey was conducted over 24 days from 21st August 2006 to 13th September 2006 on behalf of Integra Mining Ltd.

The proposed gravity survey was comprised 631 regional gravity stations in a regular grid comprising 35 E-W trending lines coincident with GDA94 with station intervals of 800 metres and line intervals of 800 metres. The lines of regular length were bounded in the west by GDA94 Zone 53 540800E, in the east by 568000E, in the south by 6912000N and in the north by 6939200N.

The completed detail gravity survey comprised of 850 detail gravity stations in 39 E-W lines. All proposed gravity stations were completed. Note; some of the stations may have been slightly offset from their planned position due to vegetation and terrain.

There were 36 observations repeated for quality control purposes, giving a repeat percentage of 4.2%.

The Bouguer anomaly processing has been performed using a country rock density of 1.8 to 2.5 g/cc and 2.67 g/cc.

Figure 1 shows the location of the survey area.

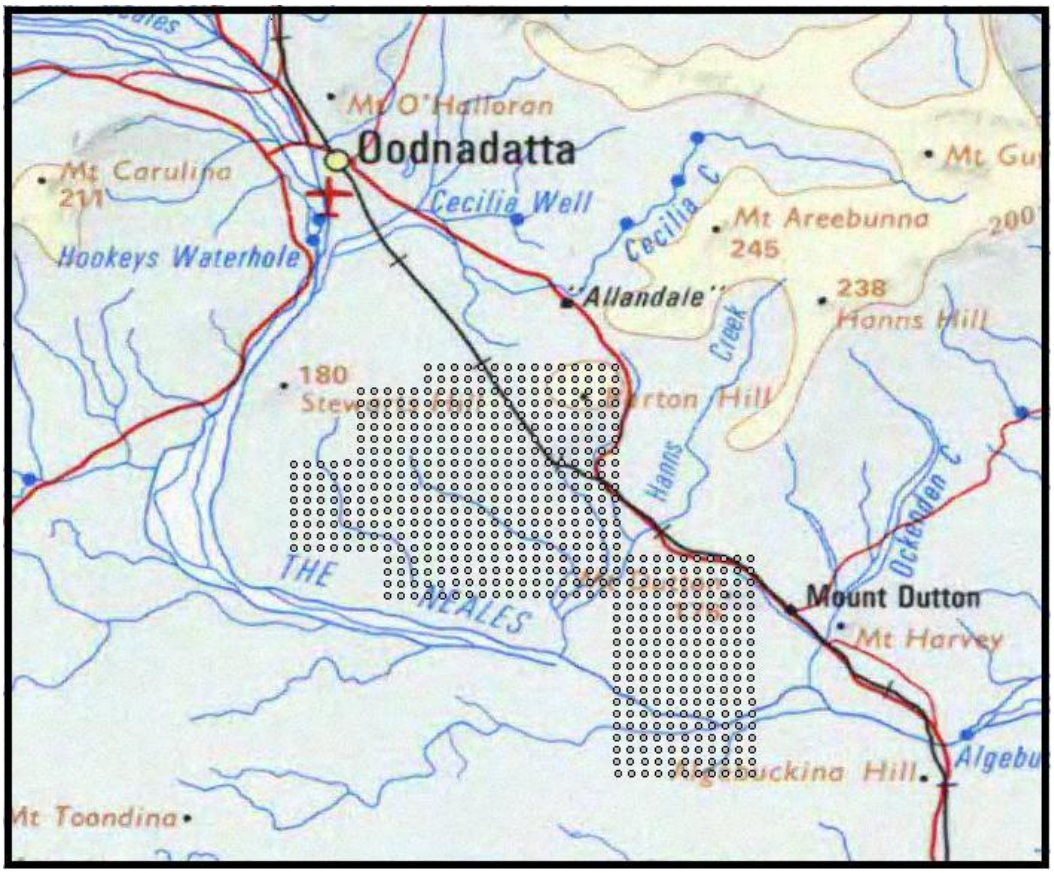


Figure 1. Location Diagram

Survey and Gravity Datum

Horizontal Datum:	Geocentric Datum of Australia1994 (GDA94) Map Grid of Australia 1994 (MGA94) Zone 53
Vertical Datum:	Australian Height Datum (AHD)
Gravity Datum:	Isogal 1984 / IGSN 71

Survey and Gravity Base Stations

Three base stations were established in the survey area. They were placed on hills central to the project to provide good VHF radio coverage for the RTK system. The bases are designated as Base 2006.5101, 2006.5102 and 2006.5103. The actual base is marked with a short star picket driven flush with the natural surface. The base is witnessed by a long star picket within 0.3m of the ground mark standing about 1m tall. Two aluminium tags are attached with the inscription "Haines Surveys" and "Gravity 2006.510n" where n= 1, 2 or 3.

A sub-base was located within 5 minutes drive of the main base to provide a backup base station to the main base in case loop ties to the main base were poor. It is not marked but the approximate coordinates (+/- 10m) listed in the table define it's location.

Survey Control

Horizontal and vertical control for 2006.5101 has been established using the AUSPOS online GPS processing service provided by Geoscience Australia. This method provides control within the GDA94 Datum to within +/- 5 cm. It largely replaces the need for finding local survey marks or allows accurate control to be established when local marks are not available.

A total of 22.5 hours (at 10 second intervals) of observations were logged over 3 days. The following outlines the Cartesian coordinate precision attained per day.

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
5101	0.009	0.011	0.012	2006/08/21
5101	0.007	0.008	0.008	2006/08/22
5101	0.009	0.008	0.006	2006/08/23

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height determined from AUSPOS and the AUSGEOID98 gravimetric geoid.

Horizontal control for 2006.5102 and 2006.5103 has been established from survey mark 2006.5101 using the Static GPS technique.

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control for 2006.5102 and 2006.5103 has been established from survey mark 2006.5101 using the Static GPS technique. The Australian Height Datum (AHD) height for this mark has been held fixed and the GDA94 height has been determined using the AUSGEOID98 gravimetric geoid.

Survey And Gravity Control Values

Control information (***WGS84 heights have been derived using AusGeoid98***):
0651_Oodnadatta control

Pt#	GDA94		GDA94_Ht	MGA94(ZONE53)		AHD_Ht	Obs_g
2006.5101	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	979133.638
2006.5102	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	979122.441
2006.5103	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	979130.365
1964910136	-27 33 18.7748	135 26 10.6260	112				979085.916

Gravity Control

Gravity control for 2006.5101 base station was established on the Australian Fundamental Gravity Network (Isogal 1984 / IGSN 71) using classical A-B-A ties from gravity station Oodnadatta A/s Terminal – Radshed 1964910136. The values for Oodnadatta A/s Terminal – Radshed 1964910136 were attained from Geoscience Australia in Canberra. A-B-A ties were made over several days to within 0.01 milligals.

Gravity control for 2006.5102 and 2006.5103 was established on the Australian Fundamental Gravity Network (Isogal 1984 / IGSN 71) using classical A-B-A ties from gravity station 2006.5601. A-B-A ties were made over several days to within 0.01 milligals.

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series Geodetic receivers.

Measurements for post processed observations have been made using Static techniques with baselines processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Static baseline processing has been completed using Trimble GPSurvey version 2.30 software.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precisions of at least 5 cm.

RTK processing has been has been completed using Trimble TDC1 firmware and RTK processing using Trimble Geomatics Office Version 1.01 software.

Gravity Observations

Gravity measurements have been made using a *Scintrex CG5 Autograv* instrument. Instrument number 475 was used in this project.

Readings of 120 seconds were taken at base station. Readings of 40 seconds were taken at all other gravity survey points.Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG5 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

The 8 digit East-West line point numbers are constructed from the planned GDA coordinates for each gravity station using

Line No = (MGA N – 6900000) / 100) Stn No = (MGA E - 500000)/10

eg. Planned gravity station GDA coordinates

564800.000E 6913600.000N

Line No = 1360 Station No = 6480

i.e. Pt No = 13606480

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by *DMR*.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

Drift = $[(t_1 - t_n) ((b_2 - b_1)/ (t_2 - t_1))]$

t_n = time of meter reading at each station

b_1 = base meter reading prior to station reading

t_1 = time of base reading b_1
b_2 = base meter reading after station reading
t_2 = time of base reading b_2

Obs mgal
This is the observed gravity value in milligals.

$Obs = b_g + (r_n - drift) - b_1$

b_g = base stn gravity value (Isogal84)
r_n = meter reading at each station as shown in the CG3 .dat file
drift = residual drift correction as shown above
b_1 = base meter reading prior to station reading

Anom
This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

$Anom = Obs - g_{th}$

Obs = observed gravity as explained above
$g_{th} = 978031.8 (1 + 0.0053024 \sin^2\phi - 0.0000059 \sin^2 2\phi)$
ϕ = WGS84 Latitude

Freeair corrn
The freeair correction is calculated using
Freeair corrn = 0.3086 H
H = height above sea level (AHD height)

Bouguer corrn
Bouguer corrn = $-0.04191 \rho H$
ρ = density (2.67 g/cc used for this survey)
H = height above sea level (AHD height)

Bouguer Anom
Bouguer Anom = Anom + Freeair corrn + Bouguer corrn

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. Results are also supplied in digital form on Compact Disc with the following of files being supplied in a separate sub directory called Processed Data.

ALLCSV.CSV REPEATS.REP

Field gravity observation files with the extension .DAT and .DC and summarised GPS baseline solution files with extension .GPS are also supplied in a separate subdirectory named Raw Data.

A digital copy of this report is also on the compact disc in the root Directory

ALLCSV.CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

Pt Number, Line No, Station No, Date, Day Number, Local Time, WGS Latitude, WGS Longitude, WGS Height, MGA East, MGA North, AHD Height, Meter reading, Meter reading standard deviation, Earth Tide Correction, drift correction, corrected meter reading, gravity difference (mgal) from base, observed gravity (mgals), gravity anomaly, free-air correction, Bouguer correction (2.67), Bouguer anomaly

*.DAT

These are the raw data files from the *Scintrex CG3* gravimeter. There is a separate file for each day's data for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G142 = day 142 (21st May).

*.DC

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

Production Log

0651_Oodnadatta Production log

Date	Day#	Obs	Repeats	Comments
21/08/2006	233	9	0	Commence Ockenenden,surv/grav control base 5101
22/08/2006	234	28	2	
23/08/2006	235	7	1	Glen spits it and goes home,CG5 temps erratic
24/08/2006	236	33	2	flat tyre,stuck in sandy creek bed
25/08/2006	237	32	2	
26/08/2006	238	22	2	rough terrain
27/08/2006	239	22	2	
28/08/2006	240	28	2	rugged terrain,CG5 temps erratic
29/08/2006	241	28	2	Ockenden completed
30/08/2006	242	36	0	Allendale commenced,surv/grav control 5102
31/08/2006	243	50	2	
1/09/2006	244	57	2	
2/09/2006	245	46	2	rugged terrain,ridgeline
3/09/2006	246	57	2	
4/09/2006	247	36	1	stuck in salt creek bed
5/09/2006	248	43	2	steep rises and declines,rugged terrain
6/09/2006	249	45	2	steep rises and declines,rugged terrain
7/09/2006	250	34	2	steep rises and declines,rugged terrain
8/09/2006	251	12	2	Allendale completed,surv/grav control 5103
9/09/2006	252	53	0	Infill commenced
10/09/2006	253	36	0	Late start-sent data from roadhouse in morning,flat tyre
11/09/2006	254	46	3	tyre probs
12/09/2006	255	55	1	sttep inclines and drops
13/09/2006	256	35	0	Survey completed
	Total	**850**	**36**	

Repeat Observation Results

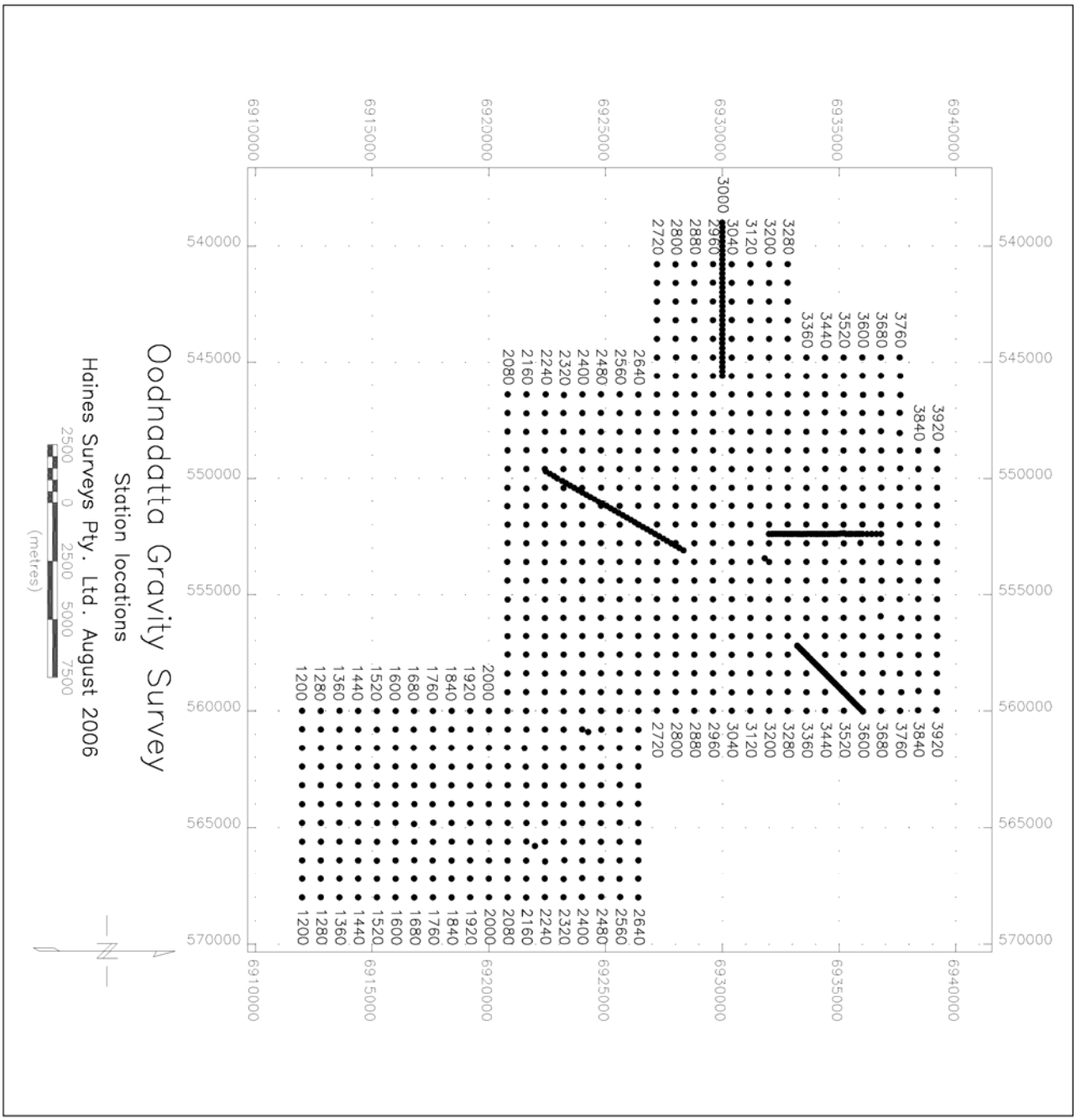
Pt #	Day	E	N	H	G	Bouguer
21606560	D233	565,590.239	6,921,603.466	103.613	979,138.858	+1.212
21606560	D234	565,590.330	6,921,603.489	103.630	979,138.879	+1.236
		-0.091	-0.023	-0.017	-0.021	-0.024
21606560	D235	565,590.545	6,921,603.419	103.595	979,138.830	+1.180
		-0.306	+0.047	+0.018	+0.028	+0.032
21606800	D233	568,003.432	6,921,597.182	92.516	979,142.820	+2.996
21606800	D236	568,003.563	6,921,597.542	92.503	979,142.805	+2.979
		-0.131	-0.360	+0.013	+0.015	+0.017
22406480	D233	564,790.273	6,922,395.278	116.600	979,132.423	-2.139
22406480	D234	564,790.078	6,922,395.066	116.580	979,132.431	-2.135
		+0.195	+0.212	+0.020	-0.008	-0.004
22406480	D240	564,789.743	6,922,394.786	116.590	979,132.451	-2.113
		+0.530	+0.492	+0.010	-0.028	-0.026
22406480	D241	564,790.023	6,922,395.076	116.619	979,132.435	-2.123
		+0.250	+0.202	-0.019	-0.012	-0.016
22406800	D233	567,989.720	6,922,395.101	96.678	979,140.187	+1.718
22406800	D240	567,989.325	6,922,394.564	96.689	979,140.165	+1.698
		+0.395	+0.537	-0.011	+0.022	+0.020
13606000	D234	559,994.317	6,913,602.006	73.601	979,142.927	-6.031
13606000	D236	559,994.278	6,913,602.121	73.621	979,142.891	-6.063
		+0.039	-0.115	-0.020	+0.036	+0.032
22406000	D234	560,001.203	6,922,396.420	83.356	979,132.984	-8.133
22406000	D253	560,000.703	6,922,396.271	83.391	979,133.010	-8.100
		+0.500	+0.149	-0.035	-0.026	-0.033
21606000	D235	560,003.064	6,921,596.915	82.526	979,133.566	-8.252
21606000	D254	560,003.719	6,921,596.978	82.546	979,133.569	-8.245
		-0.655	-0.063	-0.020	-0.003	-0.007
21606480	D235	564,802.357	6,921,607.839	118.782	979,133.764	-0.898
21606480	D239	564,802.948	6,921,607.181	118.709	979,133.826	-0.851
		-0.591	+0.658	+0.073	-0.062	-0.047
20806000	D236	560,002.862	6,920,799.968	80.693	979,134.844	-7.871
20806000	D237	560,002.683	6,920,800.129	80.681	979,134.856	-7.861
		+0.179	-0.161	+0.012	-0.012	-0.010
20806000	D254	560,002.648	6,920,799.851	80.691	979,134.859	-7.856
		+0.214	+0.117	+0.002	-0.015	-0.015
20806800	D236	567,996.119	6,920,802.031	85.902	979,146.391	+4.731
20806800	D237	567,996.278	6,920,802.101	85.901	979,146.419	+4.759
		-0.159	-0.070	+0.001	-0.028	-0.028
20806800	D238	567,996.173	6,920,802.293	85.892	979,146.443	+4.781
		-0.054	-0.262	+0.010	-0.052	-0.050
18406800	D237	567,999.439	6,918,400.272	77.313	979,154.965	+9.998
18406800	D238	567,999.274	6,918,400.284	77.306	979,154.978	+10.010
		+0.165	-0.012	+0.007	-0.013	-0.012
16806000	D238	560,002.447	6,916,795.177	71.825	979,139.644	-7.512
16806000	D239	560,002.266	6,916,795.125	71.835	979,139.611	-7.543
		+0.181	+0.052	-0.010	+0.033	+0.031

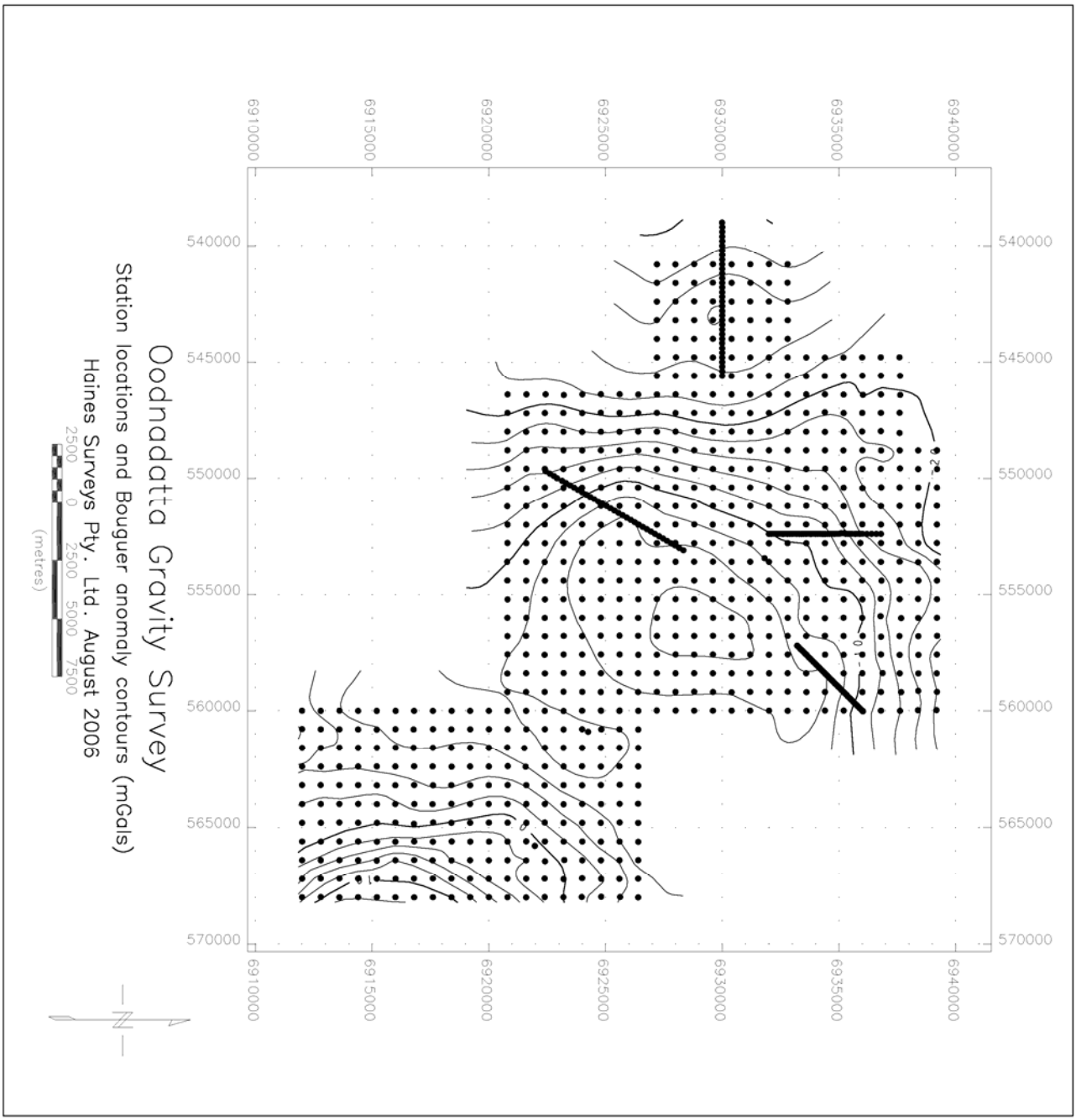
23206000	D240	560,009.581	6,923,201.915	87.404	979,131.748	-8.031
23206000	D253	560,009.303	6,923,202.011	87.404	979,131.755	-8.023
		+0.278	-0.096	+0.000	-0.007	-0.008
24006000	D240	559,997.602	6,923,992.390	80.802	979,133.105	-7.441
24006000	D247	559,996.237	6,923,998.765	80.743	979,133.070	-7.483
		+1.365	-6.375	+0.059	+0.035	+0.042
24806400	D240	564,003.537	6,924,808.320	106.537	979,128.423	-6.498
24806400	D241	564,003.469	6,924,808.413	106.558	979,128.420	-6.497
		+0.068	-0.093	-0.021	+0.003	-0.001
24806000	D241	559,999.897	6,924,809.903	80.165	979,132.854	-7.267
24806000	D247	559,992.054	6,924,803.864	80.090	979,132.942	-7.198
		+7.843	+6.039	+0.075	-0.088	-0.069
25606000	D241	560,003.822	6,925,595.428	81.821	979,132.239	-7.028
25606000	D246	559,990.092	6,925,600.775	81.886	979,132.246	-7.005
		+13.730	-5.347	-0.065	-0.007	-0.023
26406000	D241	560,001.427	6,926,404.174	82.887	979,131.742	-6.772
26406000	D246	559,999.127	6,926,406.273	82.789	979,131.716	-6.816
		+2.300	-2.099	+0.098	+0.026	+0.044
30405360	D242	553,597.922	6,930,399.261	94.247	979,127.242	-6.373
30405360	D244	553,597.928	6,930,399.232	94.266	979,127.224	-6.387
		-0.006	+0.029	-0.019	+0.018	+0.014
32005360	D242	553,598.756	6,932,002.089	100.941	979,123.282	-7.940
32005360	D243	553,598.723	6,932,002.061	100.944	979,123.228	-7.993
		+0.033	+0.028	-0.003	+0.054	+0.053
32005360	D246	553,598.541	6,932,002.088	100.934	979,123.251	-7.972
		+0.215	+0.001	+0.007	+0.031	+0.032
32005360	D251	553,598.547	6,932,002.013	100.931	979,123.314	-7.910
		+0.209	+0.076	+0.010	-0.032	-0.030
32005440	D242	554,401.483	6,932,000.855	103.047	979,123.757	-7.049
32005440	D243	554,401.502	6,932,000.907	103.056	979,123.728	-7.076
		-0.019	-0.052	-0.009	+0.029	+0.027
32805600	D243	555,997.421	6,932,804.510	108.817	979,122.477	-6.650
32805600	D248	555,997.214	6,932,804.430	108.785	979,122.477	-6.656
		+0.207	+0.080	+0.032	+0.000	+0.006
32805600	D251	555,997.195	6,932,804.477	108.796	979,122.526	-6.605
		+0.226	+0.033	+0.021	-0.049	-0.045
33605280	D243	552,799.745	6,933,603.492	107.090	979,118.891	-10.048
33605280	D244	552,799.549	6,933,603.533	107.095	979,118.929	-10.010
		+0.196	-0.041	-0.005	-0.038	-0.038
33605680	D243	556,794.496	6,933,598.773	119.999	979,118.516	-7.876
33605680	D245	556,795.022	6,933,598.729	120.008	979,118.496	-7.894
		-0.526	+0.044	-0.009	+0.020	+0.018
29605200	D244	551,999.578	6,929,593.066	92.942	979,125.824	-8.594
29605200	D245	552,000.294	6,929,593.574	92.959	979,125.842	-8.572
		-0.716	-0.508	-0.017	-0.018	-0.022
29605280	D244	552,788.668	6,929,596.976	92.368	979,127.793	-6.733
29605280	D246	552,788.201	6,929,597.024	92.389	979,127.825	-6.697
		+0.467	-0.048	-0.021	-0.032	-0.036

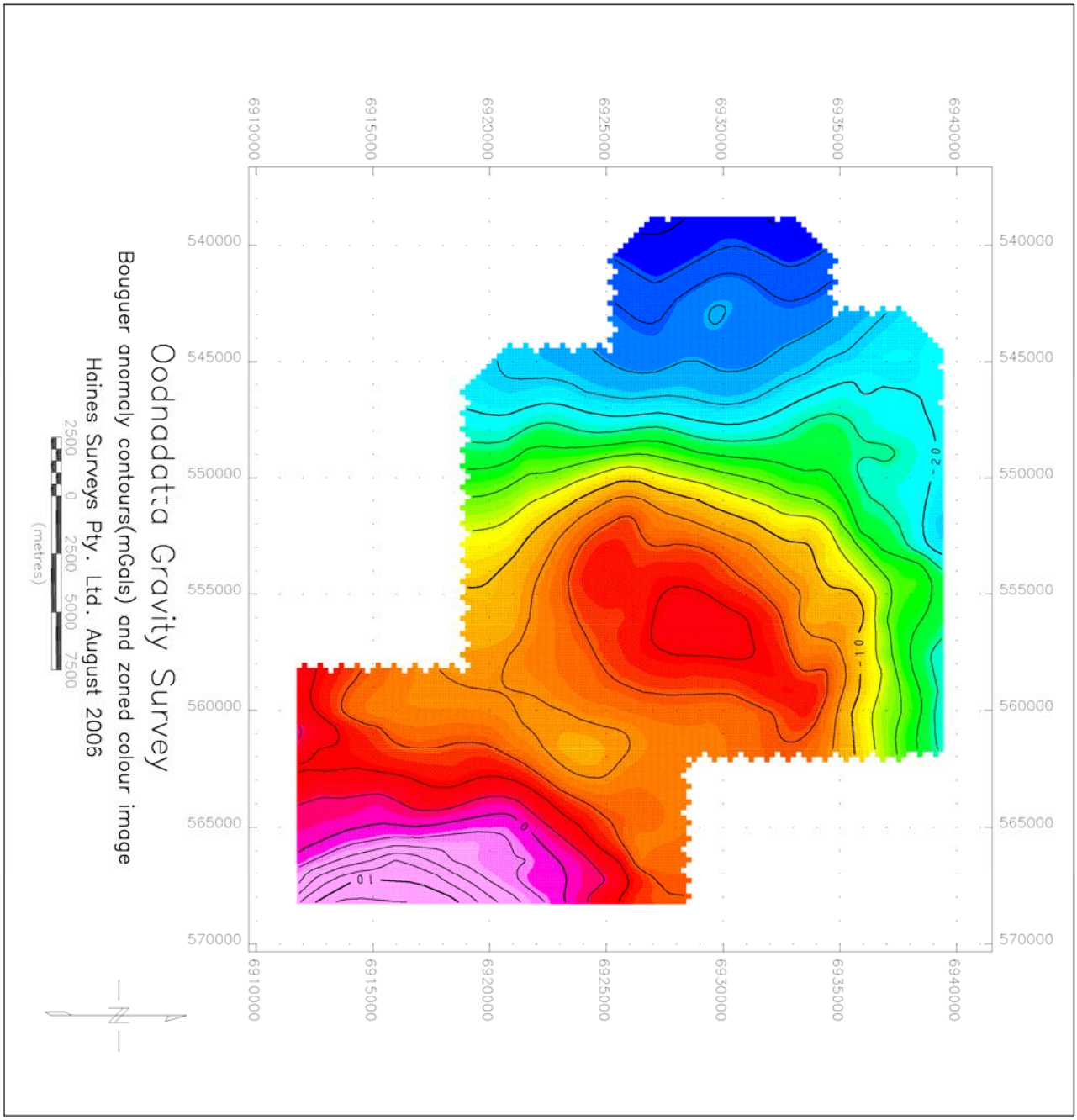
34405600	D245	556,013.479	6,934,397.641	118.085	979,117.400	-8.834
34405600	D248	556,013.604	6,934,397.652	118.085	979,117.411	-8.823
		-0.125	-0.011	+0.000	-0.011	-0.011
25605120	D246	551,199.875	6,925,598.785	89.807	979,130.669	-7.052
25605120	D247	551,199.916	6,925,599.217	89.813	979,130.672	-7.048
		-0.041	-0.432	-0.006	-0.003	-0.004
35205600	D248	555,990.420	6,935,196.711	130.115	979,114.578	-8.754
35205600	D250	555,990.746	6,935,196.844	130.121	979,114.552	-8.779
		-0.326	-0.133	-0.006	+0.026	+0.025
36005520	D248	555,200.499	6,936,005.256	129.942	979,112.469	-10.357
36005520	D250	555,200.699	6,936,005.471	129.956	979,112.486	-10.337
		-0.200	-0.215	-0.014	-0.017	-0.020
36805440	D248	554,400.471	6,936,821.906	144.357	979,106.120	-13.325
36805440	D249	554,400.727	6,936,822.153	144.339	979,106.150	-13.298
		-0.256	-0.247	+0.018	-0.030	-0.027
38405360	D248	553,617.235	6,938,396.728	143.969	979,102.599	-15.869
38405360	D249	553,617.988	6,938,396.856	143.969	979,102.563	-15.904
		-0.753	-0.128	+0.000	+0.036	+0.035
225170	D252	558,403.500	6,934,406.660	112.335	979,121.646	-5.706
225170	D254	558,398.348	6,934,404.613	112.615	979,121.547	-5.751
		+5.152	+2.047	-0.280	+0.099	+0.045
225300	D254	559,316.177	6,935,324.378	133.792	979,113.382	-9.130
225300	D255	559,316.001	6,935,324.296	133.762	979,113.415	-9.103
		+0.176	+0.082	+0.030	-0.033	-0.027

Plots

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Bouguer Anomaly Contours and Zoned Image 14
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Oodnadatta Gravity Survey
Station locations
Haines Surveys Pty. Ltd. August 2006
2500 0 2500 5000 7500
(metres)
N
6910000
6915000
6920000
6925000
6930000
6935000
6940000
540000
545000
550000
555000
560000
565000
570000


Oodnadatta Gravity Survey
Station locations and Bouguer anomaly contours (mGals)
Haines Surveys Pty. Ltd. August 2006
2500 0 2500 5000 7500
(metres)
N
6910000
6915000
6920000
6925000
6930000
6935000
6940000
540000
545000
550000
555000
560000
565000
570000
0.2
0.1



GRAVITY PROCESSING RESULTS

COORDS E	COORDS N	GRID x	GRID y	drift	corr'd meter	obs mgal	anom	freeair corrn	bouguer corrn (2.67)	bouguer anom	height (AHD)
D233											
565784.1	6921973.6	0	5101	+0.000	2872.010	979133.638	-24.139	38.556	-13.981	0.436	124.939
565784.1	6921973.6	0	5101	+0.001	2872.010	979133.638	-24.139	38.556	-13.981	0.436	124.939
565784.1	6921973.6	0	5101	-0.003	2872.009	979133.638	-24.139	38.556	-13.981	0.436	124.939
565784.1	6921973.6	0	5101	+0.004	2872.012	979133.638	-24.139	38.556	-13.981	0.436	124.939
565590.2	6921603.5	2160	6560	-0.001	2877.229	979138.858	-19.169	31.975	-11.594	1.212	103.613
566404.2	6921596.4	2160	6640	-0.001	2875.691	979137.320	-20.709	35.704	-12.946	2.049	115.696
567199.8	6921600.6	2160	6720	-0.001	2878.856	979140.485	-17.538	29.806	-10.808	1.460	96.583
568003.4	6921597.2	2160	6800	-0.002	2881.191	979142.820	-15.202	28.550	-10.353	2.996	92.516
564790.3	6922395.3	2240	6480	-0.003	2870.794	979132.423	-25.074	35.983	-13.048	-2.139	116.600
565596.5	6922400.5	2240	6560	-0.002	2873.949	979135.578	-21.913	33.608	-12.186	-0.491	108.905
566440.5	6922408.0	2240	6640	-0.002	2871.526	979133.155	-24.327	39.415	-14.292	0.796	127.722
567195.1	6922392.0	2240	6720	-0.002	2874.021	979135.650	-21.840	34.435	-12.486	0.109	111.586
567989.7	6922395.1	2240	6800	-0.002	2878.558	979140.187	-17.298	29.835	-10.818	1.718	96.678
D234											
565784.1	6921973.6	0	5101	+0.000	2872.462	979133.638	-24.139	38.556	-13.981	0.436	124.939
565784.1	6921973.6	0	5101	+0.007	2872.462	979133.638	-24.139	38.556	-13.981	0.436	124.939

```
  565784.1 6921973.6    0 5101 +0.017 2872.455 979133.638 -24.139 38.556  -13.981   0.436   124.939
  565784.1 6921973.6    0 5101 -0.003 2872.438 979133.638 -24.139 38.556  -13.981   0.436   124.939
  559994.3 6913602.0 1360 6000 +0.013 2881.744 979142.927 -20.509 22.713   -8.236  -6.031    73.601
  560799.4 6913596.6 1360 6080 +0.013 2883.726 979144.909 -18.527 22.629   -8.205  -4.104    73.328
  561587.9 6913600.2 1360 6160 +0.013 2883.900 979145.083 -18.348 22.321   -8.094  -4.121    72.329
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  563198.1 6913597.7 1360 6320 +0.012 2885.545 979146.728 -16.699 21.870   -7.930  -2.759    70.870
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  566400.4 6914398.6 1440 6640 +0.010 2893.748 979154.931  -7.945 20.700   -7.506   5.249    67.078
  567197.6 6914400.0 1440 6720 +0.010 2898.890 979160.073  -2.799 20.628   -7.480  10.349    66.844
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  560001.2 6922396.4 2240 6000 +0.015 2871.801 979132.984 -24.529 25.724   -9.328  -8.133    83.356
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D235
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D236
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D237
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D238
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D239
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D240
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D241
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D243
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D245
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D246
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D247
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D252
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D253
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D254
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D256
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Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
201	0	201	1/04/2007	91	14:52:07	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	403244	3564.058	0.05	0.012	-0.042	3564.016	-13.899	979144.264	-22.264	26.33	-9.547	-5.481
201	0	201	1/04/2007	91	14:55:03	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	403244	3564.057	0.046	0.01	-0.042	3564.015	-13.898	979144.263	-22.265	26.33	-9.547	-5.482
201	0	201	1/04/2007	91	16:35:04	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	403244	3564.085	0.054	-0.061	-0.011	3564.074	-13.912	979144.277	-22.251	26.33	-9.547	-5.468
201	0	201	1/04/2007	91	16:38:00	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	403244	3564.086	0.037	-0.063	-0.012	3564.074	-13.912	979144.277	-22.251	26.33	-9.547	-5.468
201	0	201	1/04/2007	91	14:51:10	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.305	0.046	0.013	-0.043	4001.262	-13.88	979144.245	-22.283	26.33	-9.547	-5.5
201	0	201	1/04/2007	91	14:53:42	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.315	0.04	0.011	-0.043	4001.272	-13.89	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	1/04/2007	91	16:32:56	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.32	0.097	-0.06	-0.009	4001.311	-13.883	979144.248	-22.28	26.33	-9.547	-5.497
201	0	201	1/04/2007	91	16:35:28	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.305	0.044	-0.061	-0.009	4001.296	-13.868	979144.233	-22.295	26.33	-9.547	-5.512
201	0	201	1/04/2007	91	16:38:19	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.32	0.039	-0.063	-0.01	4001.31	-13.882	979144.247	-22.281	26.33	-9.547	-5.498
201	0	201	1/04/2007	91	16:40:57	-27 56 33.02416	135 38 54.27981	92.783	563787.986	6908997.292	85.32	601307	4001.315	0.042	-0.064	-0.01	4001.305	-13.877	979144.242	-22.286	26.33	-9.547	-5.503
201	0	201	2/04/2007	92	10:45:10	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	403244	3564.104	0.055	0.072	0	3564.104	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	10:49:33	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	403244	3564.104	0.07	0.074	0	3564.104	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	15:31:41	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	403244	3564.135	0.123	-0.008	-0.031	3564.104	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	15:34:15	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	403244	3564.135	0.097	-0.01	0	3564.135	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	10:39:19	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	601307	4001.332	0.054	0.069	0	4001.332	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	10:45:38	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	601307	4001.332	0.034	0.072	0	4001.332	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	15:30:24	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	601307	4001.382	0.132	-0.007	-0.05	4001.332	0	979144.255	-22.273	26.33	-9.547	-5.49
201	0	201	2/04/2007	92	15:34:35	-27 56 33.02417	135 38 54.27982	92.783	563787.986	6908997.292	85.32	601307	4001.382	0.087	-0.01	0	4001.382	0	979144.255	-22.273	26.33	-9.547	-5.49
298	0	298	31/03/2007	90	7:01:49	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	403244	3549.897	0.046	-0.028	0	3549.897	0.161	979130.204	-24.564	26.524	-9.618	-7.658
298	0	298	31/03/2007	90	7:02:58	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	403244	3549.897	0.044	-0.027	0	3549.897	0.161	979130.204	-24.564	26.524	-9.618	-7.658
298	0	298	31/03/2007	90	15:59:58	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	403244	3549.916	0.049	-0.049	0	3549.916	0.162	979130.203	-24.565	26.524	-9.618	-7.659
298	0	298	31/03/2007	90	16:00:59	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	403244	3549.916	0.039	-0.05	0	3549.916	0.162	979130.203	-24.565	26.524	-9.618	-7.659
298	0	298	31/03/2007	90	7:07:14	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	601307	3987.07	0.062	-0.025	0	3987.07	0.15	979130.215	-24.553	26.524	-9.618	-7.647
298	0	298	31/03/2007	90	7:08:42	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	601307	3987.06	0.035	-0.023	0	3987.06	0.16	979130.205	-24.563	26.524	-9.618	-7.657
298	0	298	31/03/2007	90	16:01:26	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	601307	3987.21	0.059	-0.05	0	3987.21	0.178	979130.187	-24.581	26.524	-9.618	-7.675
298	0	298	31/03/2007	90	16:02:32	-27 47 05.59242	135 37 43.05001	93.538	561931.009	6926468.075	85.948	601307	3987.205	0.083	-0.051	0	3987.205	0.183	979130.182	-24.586	26.524	-9.618	-7.68
5102	0	5102	20/03/2007	79	8:16:57	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.412	0.031	-0.105	0	3541.412	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	8:25:31	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.412	0.036	-0.104	0	3541.412	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	15:57:37	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.5	0.029	0.069	-0.088	3541.412	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	16:00:11	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.5	0.036	0.066	0	3541.5	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	8:14:39	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.542	0.033	-0.105	0	3978.542	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	8:17:27	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.542	0.035	-0.105	0	3978.542	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	20/03/2007	79	15:49:54	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.6	0.033	0.075	-0.058	3978.542	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	7:45:46	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.518	0.034	-0.071	0	3541.518	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	7:48:29	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.518	0.055	-0.073	0	3541.518	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	15:44:34	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.56	0.047	0.067	-0.042	3541.518	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	15:47:05	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.56	0.032	0.065	0	3541.56	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	7:43:42	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.57	0.047	-0.07	0	3978.57	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	7:46:24	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.57	0.037	-0.072	0	3978.57	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	16:19:57	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.63	0.041	0.047	-0.06	3978.57	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	21/03/2007	80	16:22:30	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.63	0.054	0.046	0	3978.63	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	7:47:20	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.619	0.041	-0.025	0	3541.619	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	7:49:53	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.619	0.042	-0.026	0	3541.619	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	16:12:29	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.665	0.035	0.035	-0.046	3541.619	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	16:14:59	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.665	0.033	0.035	0	3541.665	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	7:46:24	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.592	0.033	-0.024	0	3978.592	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	7:48:49	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.592	0.039	-0.025	0	3978.592	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	16:29:57	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.675	0.038	0.029	-0.083	3978.592	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	22/03/2007	81	16:32:31	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.675	0.05	0.028	0	3978.675	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	7:45:42	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.673	0.061	0.028	0	3541.673	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	7:53:27	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.673	0.052	0.022	0	3541.673	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	16:25:59	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.691	0.042	0.009	-0.018	3541.673	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	16:28:39	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.691	0.035	0.009	0	3541.691	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	7:44:17	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.638	0.068	0.029	0	3978.638	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	7:46:42	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.638	0.085	0.027	0	3978.638	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	16:23:49	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.698	0.046	0.01	-0.06	3978.638	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	23/03/2007	82	16:26:21	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.798	0.041	0.009	-0.1	3978.698	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	10:39:19	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.742	0.072	-0.017	0	3541.742	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	10:42:21	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.742	0.06	-0.018	0	3541.742	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	16:50:47	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.794	0.049	-0.015	-0.052	3541.742	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	16:53:29	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.794	0.057	-0.015	0	3541.794	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	10:40:10	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.66	0.124	-0.018	0	3978.66	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	10:42:40	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.67	0.073	-0.018	-0.01	3978.66	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	17:15:57	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.74	0.071	-0.017	-0.07	3978.67	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	24/03/2007	83	17:18:22	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.75	0.077	-0.017	-0.01	3978.74	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	8:12:34	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.816	0.047	0.061	0	3541.816	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	8:17:50	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.816	0.054	0.059	0	3541.816	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	16:24:27	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.767	0.053	-0.034	0.049	3541.816	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	16:27:08	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.767	0.052	-0.034	0	3541.767	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	8:07:35	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.738	0.056	0.063	0	3978.738	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	8:10:13	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.738	0.052	0.062	0	3978.738	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	16:32:54	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.795	0.106	-0.034	-0.057	3978.738	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	25/03/2007	84	16:35:20	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.795	0.11	-0.034	0	3978.795	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	7:02:30	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.903	0.042	0.098	0	3541.903	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	7:05:03	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.903	0.035	0.098	0	3541.903	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	15:54:16	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.866	0.04	-0.049	0.037	3541.903	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	15:56:49	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.866	0.035	-0.049	0	3541.866	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	7:52:43	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.84	0.048	0.093	0	3978.84	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	7:55:28	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.84	0.039	0.092	0	3978.84	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	15:51:22	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.885	0.036	-0.049	-0.045	3978.84	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	26/03/2007	85	15:54:04	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.88	0.039	-0.049	0.005	3978.885	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	6:50:48	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.882	0.051	0.087	0	3541.882	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	6:53:30	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.882	0.055	0.087	0	3541.882	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	15:25:02	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.939	0.081	-0.055	-0.057	3541.882	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	15:27:32	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3541.939	0.075	-0.055	0	3541.939	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	6:46:50	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.905	0.054	0.086	0	3978.905	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	6:49:40	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.905	0.045	0.086	0	3978.905	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	27/03/2007	86	16:10:35	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.985	0.066	-0.06	-0.08	3978.905	0	979122.441	-28.763	32.442	-11.764	-8.085

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
5102	0	5102	27/03/2007	86	16:13:04	-27 44 13.20630	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3978.985	0.062	-0.06	0	3978.985	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	7:36:02	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3542.509	0.04	-0.073	0	3542.509	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	7:38:34	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3542.509	0.03	-0.073	0	3542.509	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	13:37:29	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3542.447	0.045	0.047	0.062	3542.509	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	13:40:01	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	403244	3542.447	0.04	0.046	0	3542.447	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	7:35:05	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3979.678	0.023	-0.073	0	3979.678	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	7:37:35	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3979.678	0.023	-0.073	0	3979.678	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	13:30:28	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3979.725	0.045	0.047	-0.047	3979.678	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/04/2007	95	13:33:03	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	601307	3979.725	0.047	0.047	0	3979.725	0	979122.441	-28.763	32.442	-11.764	-8.085
5103	0	5103	30/03/2007	89	7:12:27	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.1	0.059	0.012	0	3987.1	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	30/03/2007	89	7:15:41	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.1	0.05	0.014	0	3987.1	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	30/03/2007	89	15:05:18	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.195	0.046	-0.025	-0.095	3987.1	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	30/03/2007	89	15:07:44	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.195	0.062	-0.026	0	3987.195	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	7:13:14	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.058	0.042	-0.02	0	3550.058	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	7:15:57	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.058	0.032	-0.018	0	3550.058	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	15:42:18	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.078	0.047	-0.039	-0.02	3550.058	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	15:45:19	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.078	0.043	-0.041	0	3550.078	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	7:16:15	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.22	0.036	-0.018	0	3987.22	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	7:18:50	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.22	0.043	-0.017	0	3987.22	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	15:47:44	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.388	0.048	-0.042	-0.168	3987.22	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	31/03/2007	90	15:50:22	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.388	0.049	-0.044	0	3987.388	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	6:57:42	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.117	0.035	-0.057	0	3550.117	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	7:00:29	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.117	0.034	-0.056	0	3550.117	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	15:27:52	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.162	0.037	-0.016	-0.045	3550.117	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	15:31:11	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.162	0.037	-0.019	0	3550.162	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	17:11:20	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.18	0.049	-0.076	-0.018	3550.162	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	17:13:43	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	403244	3550.18	0.062	-0.077	0	3550.18	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	7:06:08	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.382	0.033	-0.052	0	3987.382	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	7:08:54	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.382	0.029	-0.051	0	3987.382	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	15:27:59	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.428	0.036	-0.017	-0.046	3987.382	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	15:31:40	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.428	0.039	-0.019	0	3987.428	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	17:08:40	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.442	0.1	-0.075	-0.014	3987.428	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	1/04/2007	91	17:11:10	-27 48 17.74593	135 37 05.90963	96.158	560903.423	6924252.997	88.615	601307	3987.442	0.041	-0.076	0	3987.442	0	979130.365	-25.896	27.347	-9.916	-8.465
225000	22	5000	21/03/2007	80	10:25:50	-27 43 27.24705	135 34 49.46982	133.786	557212.383	6933210.073	126.286	403244	3537.472	0.052	-0.068	-0.014	3537.458	4.06	979118.381	-31.874	38.972	-14.131	-7.033
225230	22	5230	20/03/2007	79	14:18:03	-27 42 34.51914	135 35 48.12072	126.88	558826.213	6934824.865	119.329	601307	3974.895	0.082	0.116	-0.046	3974.849	3.693	979118.748	-30.418	36.825	-13.353	-6.946
225340	22	5340	21/03/2007	80	11:25:08	-27 42 09.20326	135 36 16.41826	130.05	559604.978	6935600.071	122.477	601307	3970.995	0.023	-0.028	-0.026	3970.969	7.601	979114.84	-33.803	37.796	-13.705	-9.712
335040	33	5040	27/03/2007	86	14:07:02	-27 49 06.90852	135 30 23.97923	87.074	549899.727	6922790.592	79.919	403244	3547.498	0.067	-0.031	-0.048	3547.45	-5.568	979128.009	-29.27	24.663	-8.943	-13.55
335320	33	5320	26/03/2007	85	11:31:27	-27 47 48.07953	135 31 14.85670	95.336	551301.921	6925210.393	88.101	403244	3550.564	0.047	0.017	0.019	3550.583	-8.68	979131.121	-24.526	27.188	-9.858	-7.197
335400	33	5400	26/03/2007	85	9:10:36	-27 47 25.41165	135 31 29.25905	96.519	551698.999	6925906.223	89.262	403244	3551.221	0.06	0.074	0.009	3551.23	-9.327	979131.768	-23.41	27.546	-9.988	-5.852
3206000	320	6000	2/04/2007	92	12:30:24	-27 59 41.87722	135 36 36.80819	84.108	560002.239	6903205.296	76.875	601307	4002.655	0.056	0.095	-0.018	4002.637	-1.305	979145.56	-24.892	23.724	-8.602	-9.77
3206080	320	6080	2/04/2007	92	12:25:48	-27 59 41.70174	135 37 06.20490	84.433	560805.208	6903206.655	77.17	601307	4004.195	0.054	0.096	-0.018	4004.177	-2.845	979147.1	-23.348	23.815	-8.635	-8.168
3206160	320	6160	2/04/2007	92	12:21:13	-27 59 41.64497	135 37 35.49461	83.61	561605.236	6903204.322	76.318	601307	4006.165	0.062	0.096	-0.017	4006.148	-4.816	979149.071	-21.376	23.552	-8.54	-6.364
3206240	320	6240	2/04/2007	92	12:16:36	-27 59 41.61894	135 38 04.37708	87.503	562394.136	6903201.047	80.181	601307	4007.77	0.052	0.096	-0.016	4007.754	-6.422	979150.677	-19.769	24.744	-8.972	-3.997
3206320	320	6320	2/04/2007	92	12:11:59	-27 59 41.33908	135 38 33.57145	88.717	563191.598	6903205.487	81.365	601307	4009.895	0.037	0.096	-0.015	4009.88	-8.548	979152.803	-17.637	25.109	-9.105	-1.633
3206400	320	6400	2/04/2007	92	12:07:04	-27 59 41.14018	135 39 03.04139	86.234	563996.576	6903207.342	78.853	601307	4013.545	0.026	0.096	-0.014	4013.531	-12.199	979156.454	-13.982	24.334	-8.824	1.528
3206480	320	6480	2/04/2007	92	12:01:35	-27 59 39.83430	135 39 32.15310	79.338	564791.954	6903243.261	71.927	601307	4017.67	0.051	0.096	-0.013	4017.657	-16.325	979160.58	-9.829	22.197	-8.049	4.319
3206560	320	6560	2/04/2007	92	11:53:11	-27 59 41.45035	135 40 01.64012	79.967	565597.098	6903189.157	72.526	601307	4016.665	0.044	0.095	-0.012	4016.653	-15.321	979159.576	-10.867	22.382	-8.116	3.399
3206640	320	6640	2/04/2007	92	11:46:41	-27 59 40.76792	135 40 30.71307	80.292	566391.318	6903205.79	72.824	601307	4015.61	0.033	0.094	-0.011	4015.599	-14.267	979158.522	-11.906	22.473	-8.149	2.418
3206720	320	6720	2/04/2007	92	11:40:28	-27 59 40.51659	135 41 00.04799	79.656	567192.622	6903209.065	72.159	601307	4014.945	0.038	0.092	-0.01	4014.935	-13.603	979157.858	-12.565	22.268	-8.075	1.629
3206800	320	6800	2/04/2007	92	11:33:02	-27 59 40.81090	135 41 29.39838	78.423	567994.256	6903195.493	70.898	601307	4015.25	0.037	0.091	-0.008	4015.242	-13.91	979158.165	-12.264	21.879	-7.933	1.681
4006000	400	6000	2/04/2007	92	12:35:14	-27 59 15.81443	135 36 36.80186	78.975	560006.076	6904007.296	71.73	601307	4002.445	0.086	0.095	-0.019	4002.426	-1.094	979145.349	-24.561	22.136	-8.027	-10.451
4006080	400	6080	2/04/2007	92	12:40:59	-27 59 15.63608	135 37 05.73112	85.418	560796.329	6904008.809	78.143	601307	4002.65	0.034	0.094	-0.02	4002.63	-1.298	979145.553	-24.353	24.115	-8.744	-8.982
4006160	400	6160	2/04/2007	92	12:48:01	-27 59 15.90654	135 37 35.46019	77.382	561608.36	6903996.346	70.077	601307	4006.385	0.053	0.092	-0.021	4006.364	-5.032	979149.287	-20.625	21.626	-7.842	-6.84
4006240	400	6240	2/04/2007	92	12:52:50	-27 59 15.88295	135 38 04.82959	81.29	562410.614	6903992.928	73.955	601307	4007.895	0.047	0.091	-0.022	4007.873	-6.541	979150.796	-19.115	22.823	-8.276	-4.568
4006320	400	6320	2/04/2007	92	12:57:23	-27 59 15.30462	135 38 33.54467	84.611	563195.085	6904006.621	77.247	601307	4009.29	0.045	0.09	-0.023	4009.267	-7.935	979152.19	-17.709	23.838	-8.644	-2.515
4006400	400	6400	2/04/2007	92	13:02:00	-27 59 15.35171	135 39 03.09559	77.994	564002.288	6904000.896	70.6	601307	4013.885	0.064	0.088	-0.024	4013.861	-12.529	979156.784	-13.116	21.787	-7.9	0.771
4006480	400	6480	2/04/2007	92	13:12:08	-27 59 15.46909	135 39 32.46376	77.862	564804.487	6903992.981	70.438	601307	4015.7	0.045	0.085	-0.026	4015.674	-14.342	979158.597	-11.306	21.737	-7.882	2.55
4006560	400	6560	2/04/2007	92	13:16:38	-27 59 15.44759	135 40 01.62863	77.823	565601.157	6903989.315	70.37	601307	4015.105	0.039	0.083	-0.027	4015.078	-13.746	979158.001	-11.901	21.716	-7.874	1.941
4006640	400	6640	2/04/2007	92	13:22:10	-27 59 14.83287	135 40 30.85689	77.121	566399.661	6904003.842	69.64	601307	4014.85	0.039	0.081	-0.027	4014.823	-13.491	979157.746	-12.143	21.491	-7.793	1.555
4006720	400	6720	2/04/2007	92	13:26:28	-27 59 15.11681	135 41 00.24679	73.043	567202.428	6903990.638	65.534	601307	4014.755	0.082	0.079	-0.028	4014.727	-13.395	979157.65	-12.245	20.224	-7.333	0.646
4006800	400	6800	2/04/2007	92	13:30:58	-27 59 14.82855	135 41 29.81800	69.799	568010.247	6903994.959	62.262	601307	4016.55	0.084	0.077	-0.029	4016.521	-15.189	979159.444	-10.445	19.214	-6.967	1.802
4806000	480	6000	2/04/2007	92	14:23:10	-27 58 49.91077	135 36 36.41609	78.344	559999.521	6904804.45	71.087	601307	4001.265	0.057	0.045	-0.038	4001.227	0.105	979144.15	-25.221	21.937	-7.955	-11.239
4806080	480	6080	2/04/2007	92	14:18:45	-27 58 49.74460	135 37 05.49254	81.732	560793.846	6904805.569	74.445	601307	4002.2	0.048	0.048	-0.037	4002.163	-0.831	979145.086	-24.282	22.974	-8.33	-9.639
4806160	480	6160	2/04/2007	92	14:14:08	-27 58 49.73251	135 37 34.94297	76.905	561598.364	6904801.841	69.588	601307	4005.115	0.05	0.051	-0.037	4005.078	-3.746	979148.001	-21.367	21.475	-7.787	-7.679
4806240	480	6240	2/04/2007	92	14:09:13	-27 58 49.51242	135 38 03.67719	76.826	562383.351	6904804.562	69.479	601307	4006.845	0.04	0.055	-0.036	4006.809	-5.477	979149.732	-19.631	21.441	-7.775	-5.965
4806320	480	6320	2/04/2007	92	14:04:45	-27 58 49.42649	135 38 32.89458	78.018	563181.517	6904803.034	70.642	601307	4007.945	0.065	0.057	-0.035	4007.91	-6.578	979150.833	-18.528	21.8	-7.905	-4.633
4806400	480	6400	2/04/2007	92	14:00:05	-27 58 49.17915	135 39 02.32406	78.356	563985.504	6904806.388	70.951	601307	4009.78	0.06	0.06	-0.034	4009.746	-8.414	979152.669	-16.687	21.895	-7.939	-2.731
4806480	480	6480	2/04/2007	92	13:55:47	-27 58 49.23913	135 39 32.14450	75.451	564800.122	6904800.174	68.016	601307	4012.135	0.06	0.063	-0.033	4012.102	-10.77	979155.025	-14.332	20.99	-7.611	-0.954
4806560	480	6560	2/04/2007	92	13:51:28	-27 58 48.94872	135 40 01.25108	71.215	565595.299	6904804.794	63.751	601307	4013.715	0.03	0.066	-0.033	4013.682	-12.35	979156.605	-12.746	19.674	-7.134	-0.206
4806640	480	6640	2/04/2007	92	13:45:41	-27 58 49.05885	135 40 30.37424	70.963	566390.862	6904797.033	63.47	601307	4013.36	0.048	0.069	-0.032	4013.328	-11.996	979156.251	-13.103	19.587	-7.102	-0.618
4806720	480	6720	2/04/2007	92	13:41:33	-27 58 48.58607	135 40 59.39134	68.566	567183.628	6904807.173	61.046	601307	4014.665	0.051	0.071	-0.031	4014.634	-13.302	979157.557	-11.787	18.839	-6.831	0.221
4806800	480	6800	2/04/2007	92	13:35:52	-27 58 48.39475	135 41 29.27664	67.902	568000.066	6904808.466	60.353	601307	4015.54	0.077	0.074	-0.03	4015.51	-14.178	979158.433	-10.907	18.625	-6.753	0.965
5606000	560	6000	2/04/2007	92	14:28:05	-27 58 23.63965	135 36 36.24607	76.753	559998.915	6905612.882	69.483	601307	4000.94	0.045	0.041	-0.039	4000.901	0.431	979143.824	-25.001	21.442	-7.775	-11.334
5606080	560	6080	2/04/2007	92	14:33:03	-27 58 23.78654	135 37 05.71885	75.154	560804.072	6905604.313	67.854	601307	4002.76	0.055	0.038	-0.04	4002.72	-1.388	979145.643	-23.185	20.94	-7.593	-9.839
5606160	560	6160	2/04/2007	92	14:38:52	-27 58 23.86171	135 37 35.00336	75.337	561604.097	6905597.924	68.008	601307	4003.705	0.042	0.033	-0.041	4003.664	-2.332	979146.587	-22.243	20.987	-7.61	-8.866
5606240	560	6240	2/04/2007	92	14:43:35	-27 58 23.29795	135 38 04.57175	74.566	562411.98	6905611.102	67.207	601307	4004.895	0.042	0.03	-0.042	4004.853	-3.521	979147.776	-21.042	20.74	-7.52	-7.823
5606320	560	6320	2/04/2007	92	14:48:03	-27 58 23.56323	135 38 33.46190	73.247	563201.202	6905598.813	65.858	601307	4006.245	0.035	0.027	-0.043	4006.202	-4.87	979149.125	-19.699	20.324	-7.369	-6.744
5606400	560	6400	2/04/2007	92	14:52:56	-27 58 24.64579	135 39 02.64383	71.272	563998.262	6905561.279	63.855	601307	4007.85	0.04	0.023	-0.043	4007.807	-6.475	979150.73	-18.116	19.706	-7.145	-5.556
5606480	560	6480	2/04/2007	92	14:58:43	-27 58 23.32106	135 39 32.69906	70.588	564819.576	6905597.641	63.14	601307	4009.54	0.046	0.018	-0.044	4009.496	-8.164	979152.419	-16.4	19.485	-7.065	-3.98
5606560	560	6560	2/04/2007	92	15:03:08	-27 58 22.83943	135 40 01.08173	70.876	565595.06	6905608.253	63.399	601307	4010.675	0.052	0.015	-0.045	4010.63	-9.298	979153.553	-15.256	19.565	-7.094	-2.785
5606640	560	6640	2/04/2007	92	15:06:20	-27 58 22.96143	135 40 30.43456	75.982	566396.949	6905600.093	68.477	403244	3573.656	0.058	0.013	-0.028	3573.628	-9.524	979153.779	-15.032	21.132	-7.663	-1.563
5606720	560	6720	2/04/2007	92	15:01:46	-27 58 22.09749	135 40 59.74534	69.413	567197.859	6905622.226	61.879	403244	3577.256	0.065	0.016	-0.028	3577.228	-13.124	979157.379	-11.414	19.096	-6.924	0.757
5606800	560	6800	2/04/2007	92	14:57:45	-27 58 23.50728	135 41 29.20320	70.256	568002.396	6905574.315	62.695	403244	3577.93	0.028	0.019	-0.027	3577.903	-13.799	979158.054	-10.769	19.348	-7.016	1.564
6406000	640	6000	2/04/2007	92	14:12:05	-27 57 57.75196	135 36 36.53165	81.665	560010.695	6906409.452	74.382	403244	3563.389	0.05	0.053	-0.022	3563.367	0.737	979143.518	-24.77	22.954	-8.323	-10.139
6406080	640	6080	2/04/2007	92	14:16:27	-27 57 57.93159	135 37 04.67860	77.947	560779.677	6906400.059	70.636	403244	3564.516	0.051	0.05	-0.023	3564.493	-0.389	979144.644	-23.647	21.798	-7.904	-9.753
6406160	640	6160	2/04/2007	92	14:20:58	-27 57 57.90264	135 37 34.70691	80.531	561600.093	6906396.772	73.189	403244	3564.341	0.046	0.046	-0.023	3564.318	-0.214	979144.469	-23.822	22.586	-8.19	-9.425
6406240	640	6240	2/04/2007	92	14:24:42	-27 57 58.32125	135 38 03.43279	76.888	562384.855	6906379.842	69.517	403244	3566.038	0.036	0.044	-0.024	3566.014	-1.91	979146.165	-22.134	21.453	-7.779	-8.46
6406320	640	6320	2/04/2007	92	14:28:35	-27 57 57.71016	135 38 33.66950	79.205	563211.059	6906394.329	71.804	403244	3566.349	0.037	0.041	-0.024	3566.325	-2.221	979146.476	-21.811	22.159	-8.035	-7.687

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
6406400	640	6400	2/04/2007	92	14:32:55	-27 57 56.53146	135 39 02.99299	74.901	564012.41	6906426.359	67.47	403244	3568.106	0.052	0.038	-0.025	3568.081	-3.977	979148.232	-20.03	20.821	-7.55	-6.759
6406480	640	6480	2/04/2007	92	14:36:53	-27 57 58.03243	135 39 32.56756	75.021	564820.181	6906375.839	67.56	403244	3569.895	0.049	0.035	-0.025	3569.87	-5.766	979150.021	-18.272	20.849	-7.56	-4.983
6406560	640	6560	2/04/2007	92	14:40:37	-27 57 57.54336	135 40 01.02394	79.085	565597.731	6906386.67	71.596	403244	3571.022	0.061	0.033	-0.025	3570.997	-6.893	979151.148	-17.135	22.095	-8.012	-3.052
6406640	640	6640	2/04/2007	92	14:45:07	-27 57 57.16564	135 40 29.35682	78.892	566371.89	6906394.042	71.376	403244	3572.493	0.09	0.029	-0.026	3572.467	-8.363	979152.618	-15.657	22.027	-7.987	-1.618
6406720	640	6720	2/04/2007	92	14:49:16	-27 57 57.39979	135 40 58.62015	70.396	567171.368	6906382.394	62.852	403244	3576.217	0.068	0.026	-0.026	3576.191	-12.087	979156.342	-11.938	19.396	-7.033	0.425
6406800	640	6800	2/04/2007	92	14:53:59	-27 57 56.83198	135 41 28.88168	73.601	567998.257	6906395.217	66.028	403244	3576.888	0.031	0.022	-0.027	3576.861	-12.757	979157.012	-11.256	20.376	-7.389	1.731
7206000	720	6000	2/04/2007	92	14:06:20	-27 57 31.96344	135 36 36.26630	82.294	560007.408	6907203.044	74.999	403244	3564.373	0.035	0.057	-0.022	3564.351	-0.247	979144.502	-23.25	23.145	-8.392	-8.498
7206080	720	6080	2/04/2007	92	14:02:08	-27 57 31.95462	135 37 05.38886	83.353	560803.126	6907199.317	76.028	403244	3563.467	0.054	0.059	-0.021	3563.446	0.658	979143.597	-24.155	23.462	-8.508	-9.2
7206160	720	6160	2/04/2007	92	13:58:10	-27 57 31.53809	135 37 34.93442	82.076	561610.468	6907208.023	74.721	403244	3563.964	0.062	0.062	-0.021	3563.943	0.161	979144.094	-23.649	23.059	-8.361	-8.951
7206240	720	6240	2/04/2007	92	13:54:12	-27 57 31.73226	135 38 03.29140	80.928	562385.238	6907198.052	73.545	403244	3565.308	0.058	0.064	-0.02	3565.288	-1.184	979145.439	-22.308	22.696	-8.23	-7.842
7206320	720	6320	2/04/2007	92	13:50:04	-27 57 31.26847	135 38 33.30565	77.621	563205.397	6907208.039	70.207	403244	3566.893	0.045	0.066	-0.02	3566.873	-2.769	979147.024	-20.713	21.666	-7.856	-6.904
7206400	720	6400	2/04/2007	92	13:45:43	-27 57 31.06811	135 39 02.40538	84.315	564000.528	6907209.998	76.872	403244	3566.043	0.07	0.069	-0.019	3566.024	-1.92	979146.175	-21.558	23.723	-8.602	-6.438
7206480	720	6480	2/04/2007	92	13:41:03	-27 57 31.35328	135 39 32.04002	81.259	564810.195	6907196.884	73.786	403244	3568.081	0.027	0.071	-0.019	3568.062	-3.958	979148.213	-19.526	22.77	-8.257	-5.012
7206560	720	6560	2/04/2007	92	13:37:12	-27 57 31.08769	135 39 59.86093	88.541	565570.397	6907200.934	81.04	403244	3568.265	0.044	0.074	-0.018	3568.247	-4.143	979148.398	-19.336	25.009	-9.068	-3.395
7206640	720	6640	2/04/2007	92	13:33:05	-27 57 31.20510	135 40 29.86537	79.949	566390.197	6907192.821	72.42	403244	3571.441	0.065	0.076	-0.018	3571.423	-7.319	979151.574	-16.162	22.349	-8.104	-1.917
7206720	720	6720	2/04/2007	92	13:28:40	-27 57 30.37928	135 40 59.06165	75.026	567188.078	6907213.8	67.469	403244	3574.517	0.04	0.077	-0.017	3574.5	-10.396	979154.651	-13.068	20.821	-7.55	0.203
7206800	720	6800	2/04/2007	92	13:24:39	-27 57 30.34700	135 41 28.50204	76.868	567992.495	6907210.27	69.282	403244	3575.048	0.034	0.079	-0.017	3575.031	-10.927	979155.182	-12.536	21.38	-7.753	1.092
8006000	800	6000	2/04/2007	92	12:35:22	-27 57 06.12894	135 36 36.15903	85.776	560008.445	6907998.029	78.468	403244	3564.686	0.065	0.095	-0.012	3564.674	-0.57	979144.825	-22.39	24.215	-8.781	-6.956
8006080	800	6080	2/04/2007	92	12:40:48	-27 57 05.87621	135 37 04.13742	88.496	560772.99	6908001.966	81.16	403244	3562.916	0.05	0.094	-0.012	3562.904	1.2	979143.055	-24.155	25.046	-9.082	-8.191
8006160	800	6160	2/04/2007	92	12:45:20	-27 57 06.53769	135 37 34.09236	88.038	561591.402	6907977.446	80.672	403244	3563.021	0.055	0.093	-0.013	3563.008	1.096	979143.159	-24.065	24.895	-9.027	-8.197
8006240	800	6240	2/04/2007	92	12:49:27	-27 57 05.77896	135 38 03.41505	82.082	562392.762	6907996.663	74.687	403244	3565.126	0.041	0.092	-0.013	3565.113	-1.009	979145.264	-21.944	23.048	-8.357	-7.253
8006320	800	6320	2/04/2007	92	12:53:58	-27 57 05.52150	135 38 32.52781	80.871	563188.308	6908000.43	73.446	403244	3566.228	0.075	0.091	-0.014	3566.214	-2.11	979146.365	-20.838	22.665	-8.219	-6.391
8006400	800	6400	2/04/2007	92	12:58:35	-27 57 05.63418	135 39 01.85471	83.918	563989.648	6907992.725	76.464	403244	3566.62	0.032	0.09	-0.014	3566.606	-2.502	979146.757	-20.448	23.597	-8.556	-5.407
8006480	800	6480	2/04/2007	92	13:02:30	-27 57 05.22198	135 39 31.51389	85.361	564800.154	6908001.069	77.876	403244	3566.748	0.065	0.088	-0.015	3566.733	-2.629	979146.884	-20.312	24.033	-8.714	-4.994
8006560	800	6560	2/04/2007	92	13:06:56	-27 57 05.70281	135 40 00.34433	90.429	565587.867	6907982.001	82.915	403244	3566.898	0.041	0.087	-0.015	3566.883	-2.779	979147.034	-20.172	25.588	-9.278	-3.863
8006640	800	6640	2/04/2007	92	13:11:12	-27 57 05.55064	135 40 29.12311	81.548	566374.275	6907982.369	74.007	403244	3570.262	0.036	0.085	-0.016	3570.246	-6.142	979150.397	-16.806	22.839	-8.281	-2.249
8006720	800	6720	2/04/2007	92	13:15:47	-27 57 04.90520	135 40 58.12587	76.499	567166.889	6907997.829	68.93	403244	3572.963	0.081	0.083	-0.016	3572.947	-8.843	979153.098	-14.092	21.272	-7.713	-0.533
8006800	800	6800	2/04/2007	92	13:20:01	-27 57 04.90760	135 41 29.04618	80.836	568011.792	6907993.006	73.238	403244	3574.024	0.03	0.082	-0.017	3574.007	-9.903	979154.158	-13.032	22.601	-8.195	1.374
8805760	880	5760	2/04/2007	92	12:24:46	-27 57 56 40.02211	135 35 08.78699	92.862	557624.869	6908813.055	85.628	403244	3560.515	0.053	0.096	-0.01	3560.505	3.599	979140.656	-26.017	26.425	-9.582	-9.174
8805840	880	5840	2/04/2007	92	12:20:02	-27 57 56 40.63444	135 35 37.66506	87.657	558413.918	6908790.406	80.395	403244	3565.168	0.031	0.096	-0.01	3565.158	-1.054	979145.309	-21.377	24.81	-8.996	-5.563
8805920	880	5920	2/04/2007	92	12:15:32	-27 57 56 40.04905	135 36 06.69896	89.522	559207.404	6908804.539	82.232	403244	3565.26	0.041	0.096	-0.009	3565.251	-1.147	979145.402	-21.272	25.377	-9.202	-5.097
8806000	880	6000	2/04/2007	92	12:11:00	-27 57 56 39.95993	135 36 36.55788	89.174	560023.363	6908803.237	81.853	403244	3563.928	0.036	0.096	-0.009	3563.919	0.185	979144.07	-22.602	25.26	-9.159	-6.501
8806080	880	6080	2/04/2007	92	12:06:58	-27 57 56 40.16170	135 37 06.07803	86.381	560830.019	6908792.976	79.031	403244	3563.781	0.039	0.096	-0.009	3563.772	0.332	979143.923	-22.753	24.389	-8.844	-7.207
8806160	880	6160	2/04/2007	92	12:02:08	-27 57 56 39.42216	135 37 34.01806	88.574	561593.645	6908811.847	81.196	403244	3563.743	0.074	0.096	-0.008	3563.735	0.369	979143.886	-22.775	25.057	-9.086	-6.803
8806240	880	6240	2/04/2007	92	11:57:42	-27 57 56 39.84101	135 38 03.55889	84.059	562400.834	6908794.797	76.65	403244	3565.271	0.053	0.095	-0.007	3565.264	-1.16	979145.415	-21.254	23.654	-8.577	-6.177
8806320	880	6320	2/04/2007	92	11:53:58	-27 57 56 39.42426	135 38 32.77333	84.35	563199.238	6908803.452	76.912	403244	3565.597	0.043	0.095	-0.007	3565.59	-1.486	979145.741	-20.92	23.735	-8.606	-5.791
8806400	880	6400	2/04/2007	92	11:47:25	-27 57 56 38.52925	135 39 01.99226	88.046	563997.845	6908826.771	80.578	403244	3565.445	0.063	0.094	-0.006	3565.439	-1.335	979145.59	-21.052	24.866	-9.017	-5.202
8806480	880	6480	2/04/2007	92	11:43:37	-27 57 56 38.69696	135 39 31.50224	86.616	564804.234	6908817.293	79.118	403244	3566.047	0.072	0.093	-0.006	3566.041	-1.937	979146.192	-20.454	24.416	-8.853	-4.891
8806560	880	6560	2/04/2007	92	11:39:00	-27 57 56 39.39252	135 40 01.43976	94.259	565622.218	6908791.453	86.731	403244	3565.747	0.039	0.092	-0.005	3565.742	-1.638	979145.893	-20.767	26.765	-9.705	-3.707
8806640	880	6640	2/04/2007	92	11:34:37	-27 57 56 38.48450	135 40 29.54284	87.712	566390.342	6908815.18	80.157	403244	3568.537	0.063	0.091	-0.005	3568.532	-4.428	979148.683	-17.958	24.736	-8.97	-2.191
8806720	880	6720	2/04/2007	92	11:30:19	-27 57 56 38.80427	135 40 59.69003	88.142	567214.119	6908800.765	80.56	403244	3570.398	0.078	0.09	-0.004	3570.394	-6.29	979150.545	-16.103	24.861	-9.015	-0.257
8806800	880	6800	2/04/2007	92	11:26:01	-27 57 56 37.61691	135 41 28.53077	82.625	568002.457	6908832.872	75.014	403244	3573.109	0.082	0.089	-0.004	3573.105	-9.001	979153.256	-13.367	23.149	-8.394	1.388
9605760	960	5760	1/04/2007	91	12:40:24	-27 57 56 14.92397	135 35 08.41496	92.8	557618.402	6909585.411	85.554	403244	3559.496	0.087	0.098	-0.03	3559.466	-9.349	979139.714	-26.438	26.402	-9.573	-9.61
9605840	960	5840	1/04/2007	91	12:45:26	-27 57 56 14.32028	135 35 36.91552	96.215	558397.366	6909600.232	88.941	403244	3562.401	0.037	0.097	-0.031	3562.37	-12.253	979142.618	-23.521	27.447	-9.952	-6.027
9605920	960	5920	1/04/2007	91	12:50:34	-27 57 56 14.30465	135 36 06.95222	92.898	559218.225	6909596.701	85.595	403244	3563.873	0.067	0.095	-0.031	3563.842	-13.725	979144.09	-22.049	26.415	-9.578	-5.213
9606000	960	6000	1/04/2007	91	12:54:31	-27 57 56 14.44498	135 36 35.14959	90.732	559988.794	6909588.565	83.4	403244	3563.261	0.077	0.093	-0.031	3563.23	-13.113	979143.478	-22.664	25.737	-9.332	-6.259
9606080	960	6080	1/04/2007	91	12:59:22	-27 57 56 14.29023	135 37 04.43924	89.715	560789.26	6909589.309	82.354	403244	3564.14	0.065	0.091	-0.032	3564.108	-13.991	979144.356	-21.783	25.414	-9.215	-5.584
9606160	960	6160	1/04/2007	91	13:04:33	-27 57 56 12.28208	135 37 34.99334	90.822	561624.574	6909646.855	83.43	403244	3565.146	0.056	0.089	-0.032	3565.114	-14.997	979145.362	-20.735	25.746	-9.336	-4.324
9606240	960	6240	1/04/2007	91	13:08:30	-27 57 56 12.98445	135 38 02.91145	89.998	562387.427	6909621.31	82.577	403244	3565.467	0.042	0.087	-0.033	3565.434	-15.317	979145.682	-20.43	25.483	-9.24	-4.187
9606320	960	6320	1/04/2007	91	13:13:19	-27 57 56 13.91300	135 38 32.31903	89.669	563190.947	6909588.542	82.22	403244	3564.965	0.036	0.084	-0.033	3564.932	-14.815	979145.18	-20.951	25.373	-9.2	-4.778
9606320	960	6320	2/04/2007	92	15:23:33	-27 57 56 13.92532	135 38 32.30767	89.628	563190.634	6909588.165	82.178	601307	4002.315	0.135	-0.001	-0.049	4002.266	-0.934	979145.189	-20.942	25.36	-9.196	-4.778
9606400	960	6400	1/04/2007	91	13:17:36	-27 57 56 13.87253	135 39 02.01349	88.757	564002.462	6909585.498	81.277	403244	3565.179	0.067	0.082	-0.033	3565.146	-15.029	979145.394	-20.736	25.082	-9.095	-4.749
9606400	960	6400	2/04/2007	92	11:12:45	-27 57 56 13.86627	135 39 02.01595	88.685	564002.53	6909585.69	81.205	601307	4002.485	0.052	0.084	-0.005	4002.48	-1.148	979145.403	-20.727	25.06	-9.087	-4.754
9606480	960	6480	1/04/2007	91	13:23:44	-27 57 56 13.81234	135 39 30.94850	88.935	564793.226	6909583.118	81.426	403244	3565.839	0.068	0.078	-0.034	3565.805	-15.688	979146.053	-20.076	25.128	-9.112	-4.059
9606560	960	6560	1/04/2007	91	13:28:25	-27 57 56 12.91512	135 40 00.59563	88.707	565603.593	6909606.336	81.168	403244	3567.08	0.029	0.075	-0.034	3567.046	-16.929	979147.294	-18.816	25.048	-9.083	-2.851
9606640	960	6640	1/04/2007	91	13:34:38	-27 57 56 12.48434	135 40 29.21857	90.456	566385.896	6909615.301	82.89	403244	3567.781	0.077	0.072	-0.035	3567.746	-17.629	979147.994	-18.107	25.58	-9.275	-1.803
9606720	960	6720	1/04/2007	91	13:39:29	-27 57 56 13.48534	135 40 59.38917	93.463	567210.251	6909579.92	85.868	403244	3569.114	0.059	0.068	-0.035	3569.079	-18.962	979149.327	-16.795	26.499	-9.609	0.095
9606800	960	6800	1/04/2007	91	13:43:54	-27 57 56 13.96042	135 41 28.30940	88.515	568000.522	6909560.86	80.893	403244	3572.077	0.048	0.065	-0.036	3572.041	-21.924	979152.289	-13.843	24.964	-9.052	2.069
9606800	960	6800	2/04/2007	92	11:20:59	-27 57 56 13.96564	135 41 28.30578	88.534	568000.422	6909560.7	80.912	403244	3572.119	0.048	0.087	-0.003	3572.116	-8.012	979152.267	-13.865	24.969	-9.054	2.05
10405760	1040	5760	1/04/2007	91	12:34:13	-27 57 55 47.78374	135 35 08.04200	87.521	557612.208	6910420.605	80.267	403244	3559.072	0.033	0.1	-0.03	3559.042	-8.925	979139.29	-26.299	24.77	-8.982	-10.51
10405840	1040	5840	1/04/2007	91	12:29:51	-27 57 55 47.78730	135 35 36.79054	87.188	558397.913	6910416.708	79.906	403244	3563.279	0.031	0.102	-0.029	3563.25	-13.133	979143.498	-22.091	24.659	-8.941	-6.373
10405920	1040	5920	1/04/2007	91	12:25:01	-27 57 55 48.31409	135 36 06.31903	88.735	559204.855	6910396.555	81.425	403244	3564.252	0.05	0.103	-0.029	3564.223	-14.106	979144.471	-21.129	25.128	-9.111	-5.112
10406000	1040	6000	1/04/2007	91	12:20:33	-27 57 55 47.86399	135 36 35.58334	88.766	560004.726	6910406.444	81.426	403244	3564.952	0.067	0.104	-0.028	3564.924	-14.807	979145.172	-20.418	25.128	-9.112	-4.402
10406080	1040	6080	1/04/2007	91	12:16:11	-27 57 55 46.87304	135 37 04.49636	88.221	560795.083	6910432.971	80.852	403244	3566.253	0.075	0.105	-0.028	3566.225	-16.108	979146.473	-19.097	24.951	-9.047	-3.193
10406160	1040	6160	1/04/2007	91	12:11:25	-27 57 55 48.29430	135 37 34.11819	93.757	561604.436	6910385.12	86.358	403244	3565.271	0.04	0.106	-0.028	3565.243	-15.126	979145.491	-20.108	26.65	-9.663	-3.122
10406240	1040	6240	1/04/2007	91	12:07:03	-27 57 55 47.70415	135 38 03.26570	88.727	562401.142	6910399.176	81.299	403244	3566.403	0.041	0.106	-0.027	3566.376	-16.259	979146.624	-18.963	25.089	-9.097	-2.971
10406320	1040	6320	1/04/2007	91	12:01:24	-27 57 55 46.25191	135 38 33.79285	89.477	563235.697	6910439.508	82.018	403244	3565.727	0.052	0.107	-0.027	3565.7	-15.583	979145.948	-19.609	25.311	-9.178	-3.476
10406400	1040	6400	1/04/2007	91	11:56:22	-27 57 55 46.39938	135 39 01.34797	88.524	563988.769	6910430.99	81.037	403244	3565.913	0.04	0.107	-0.026	3565.887	-15.77	979146.135	-19.425	25.008	-9.068	-3.485
10406400	1040	6400	2/04/2007	92	15:24:06	-27 57 55 46.38807	135 39 01.35636	88.554	563989.001	6910431.337	81.067	403244	3565.985	0.17	-0.001	-0.03	3565.955	-1.851	979146.106	-19.454	25.017	-9.071	-3.508
10406480	1040	6480	1/04/2007	91	11:51:59	-27 57 55 46.89260	135 39 31.25763	87.738	564806.136	6910411.439	80.221	403244	3566.911	0.046	0.108	-0.026	3566.885	-16.768	979147.133	-18.437	24.756	-8.977	-2.658
10406560	1040	6560	1/04/2007	91	11:46:00	-27 57 55 46.83055	135 40 00.99726	84.729	565618.947	6910408.944	77.182	403244	3568.278	0.037	0.108	-0.025	3568.253	-18.136	979148.501	-17.068	23.818	-8.637	-1.886
10406640	1040	6640	1/04/2007	91	11:39:22	-27 57 55 45.59049	135 40 30.83990	88.211	566434.774	6910442.628	80.636	403244	3568.828	0.053	0.107	-0.025	3568.803	-18.686	979149.051	-16.492	24.884	-9.023	-0.631
10406720	1040	6720	1/04/2007	91	11:35:10	-27 57 55 46.42412	135 40 58.92538	91.823	567202.226	6910412.714	84.221	403244	3569.955	0.08	0.107	-0.024	3569.931	-19.814	979150.179	-15.381	25.991	-9.424	1.185
10406800	1040	6800	1/04/2007	91	11:30:38	-27 57 55 47.43329	135 41 28.28830	92.93	568004.559	6910377.152	85.3	403244	3571.903	0.035	0.107	-0.024	3571.879	-21.762	979152.127	-13.454	26.324	-9.545	3.324
11205760	1120	5760	1/04/2007	91	10:24:01	-27 57 55 22.42569	135 35 07.75075	85.924	557607.982	6911200.947	78.668	403244	3558.028	0.09	0.085	-0.018	3558.01	-7.893	979138.258	-26.804	24.277	-8.803	-11.33
11205840	1120	5840	1/04/2007	91	10:28:13	-27 57 55 22.84750	135 35 36.92370	84.5	558405.276	6911184.125	77.215	403244	3562.037	0.059	0.087	-0.018	3562.019	-11.902	979142.267	-22.804	23.829	-8.64	-7.616
11205920	1120	5920	1/04/2007	91	10:32:15	-27 57 55 22.35719	135 36 07.14488	83.663	559231.357	6911195.177	76.349	403244	3564.738	0.049	0.089	-0.019	3564.719	-14.602	979144.967	-20.094	23.561	-8.543	-5.076
11206000	1120	6000	1/04/2007	91	10:36:20	-27 57 55 21.69286	135 36 34.29626	88.689	559973.563	6911211.945	81.347	403244	3565.306	0.039	0.091	-0.019	3565.287	-15.17	979145.535	-19.512	25.104	-9.103	-3.511
11206080	1120	6080	1/04/2007	91	10:40:57	-27 57 55 21.81748	135 37 04.24795	84.965	560792.188	6911204.004	77.593	403244	3567.535	0.053	0.093	-0.02	3567.515	-17.398	979147.763	-17.287	23.945	-8.683	-2.024
11206160	1120	6160	1/04/2007	91	10:45:39	-27 57 55 21.04687	135 37 34.87638	89.122	561629.451	6911223.46	81.72	403244	3565.988	0.048	0.095	-0.02	3565.968	-15.851	979146.216	-18.818	25.219	-9.144	-2.743
11206240	1120	6240	1/04/2007	91	10:50:12	-27 57 55 21.03789	135 38 02.56168	86.404	562386.154	6911219.839	78.974	403244	3565.62	0.051	0.097	-0.02	3565.6	-15.483	979145.848	-19.185	24.371	-8.837	-3.651
11206320	1120	6320	1/04/2007	91	10:54:30	-27 57 55 21.27840	135 38 32.64272	87.818	563208.299	6911208.149	80.357	403244	3565.743	0.045	0.098	-0.021	3565.722	-15.605	979145.97	-19.068	24.798	-8.992	-3.262
11206400	1120	6400	1/04/2007	91	11:00:38	-27 57 55 21.13292	135 39 00.29094	85.231	563964.012	6911208.634	77.743	403244	3566.783	0.057	0.1	-0.021	3566.762	-16.645	979147.01	-18.025	23.991	-8.699	-2.733
11206480	1120	6480	1/04/2007	91	11:05:20	-27 57 55 20.42542	135 39 31.81188	81.159	564825.67	6911225.797	73.64	403244	3568.631	0.072	0.102	-0.022	3568.609	-18.492	979148.857	-16.164	22.725	-8.24	-1.679
11206560	1120	6560	1/04/2007	91	11:09:46	-27 57 55 21.16856	135 40 00.05266	83.67	565597.433	6911198.748	76.123	403244	3568.61	0.06	0.103	-0.022	3568.588	-18.471	979148.836	-16.2	23.492	-8.518	-1.227
11206640	1120	6640	1/04/2007	91	11:15:29	-27 57 55 20.78170	135 40 31.28891	82.531	566451.26	6911205.97	74.954	403244	3570.465	0.083	0.104	-0.023	3570.442	-20.325	979150.69	-14.338	23.131	-8.387	0.405
11206720	1120	6720	1/04/2007	91	11:21:46	-27 57 55 20.68754	135 40 57.72267	89.968	567173.775	6911204.857	82.365	403244	3570.937	0.042	0.105	-0.023	3570.914	-20.797	979151.162	-13.864	25.418	-9.217	2.337
11206800	1120	6800	1/04/2007	91	11:26:33	-27 57 55 21.04599	135 41 27.81684	92.24	567996.26	6911189.209	84.608	403244	3573.315	0.092	0.106	-0.024	3573.291	-23.174	979153.539	-11.495	26.11	-9.468	5.148

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
12005760	1200	5760	1/04/2007	91	10:09:22	-27 54 56.31757	135 35 07.39773	89.281	557602.177	6912004.377	82.022	403244	3555.968	0.077	0.077	-0.017	3555.951	-5.834	979136.199	-28.321	25.312	-9.178	-12.188
12005840	1200	5840	1/04/2007	91	10:13:42	-27 54 56.23934	135 35 35.85798	83.669	558380.117	6912003.038	76.383	403244	3560.154	0.043	0.08	-0.017	3560.137	-10.02	979140.385	-24.134	23.572	-8.547	-9.109
12005920	1200	5920	1/04/2007	91	10:17:44	-27 54 56.64401	135 36 05.95200	85.035	559202.643	6911986.569	77.72	403244	3562.874	0.041	0.082	-0.017	3562.857	-12.74	979143.105	-21.422	23.984	-8.697	-6.135
12805760	1280	5760	1/04/2007	91	10:03:57	-27 54 29.81759	135 35 07.81309	87.022	557617.431	6912819.763	79.76	403244	3555.85	0.051	0.074	-0.016	3555.834	-5.717	979136.082	-27.889	24.614	-8.925	-12.2
12805840	1280	5840	1/04/2007	91	9:59:45	-27 54 30.08540	135 35 37.20158	82.029	558420.747	6912807.653	74.739	403244	3559.258	0.037	0.071	-0.016	3559.242	-9.125	979139.49	-24.486	23.064	-8.363	-9.785
12805920	1280	5920	1/04/2007	91	9:55:10	-27 54 29.70289	135 36 05.11334	80.841	559183.793	6912815.699	73.524	403244	3561.714	0.037	0.068	-0.015	3561.699	-11.582	979141.947	-22.021	22.69	-8.227	-7.559
13605760	1360	5760	1/04/2007	91	9:41:19	-27 54 04.87608	135 35 06.13630	80.314	557575.263	6913587.467	73.051	403244	3556.637	0.052	0.059	-0.014	3556.623	-6.506	979136.871	-26.582	22.544	-8.174	-12.213
13605840	1360	5840	1/04/2007	91	9:46:12	-27 54 04.71145	135 35 36.30548	79.729	558400.036	6913588.563	72.437	403244	3558.684	0.034	0.062	-0.015	3558.669	-8.552	979138.917	-24.533	22.354	-8.106	-10.284
13605920	1360	5920	1/04/2007	91	9:50:39	-27 54 03.67035	135 36 05.09114	81.301	559187.121	6913616.76	73.982	403244	3560.493	0.041	0.065	-0.015	3560.478	-10.361	979140.726	-22.702	22.831	-8.279	-8.15
14405760	1440	5760	1/04/2007	91	9:36:27	-27 53 37.95759	135 35 07.45537	84.292	557615.283	6914415.612	77.016	403244	3555.051	0.042	0.055	-0.014	3555.037	-4.92	979135.285	-27.61	23.767	-8.618	-12.461
14405840	1440	5840	1/04/2007	91	9:32:11	-27 53 37.91564	135 35 36.36067	84.151	558405.541	6914413.099	76.848	403244	3556.704	0.03	0.052	-0.013	3556.691	-6.574	979136.939	-25.955	23.715	-8.599	-10.839
14405920	1440	5920	1/04/2007	91	9:27:22	-27 53 37.64607	135 36 05.61784	78.397	559205.454	6914417.492	71.067	403244	3559.891	0.08	0.049	-0.013	3559.878	-9.761	979140.126	-22.763	21.931	-7.952	-8.784
14406000	1440	6000	1/04/2007	91	9:19:17	-27 53 38.10184	135 36 34.72510	80.025	560001.16	6914399.532	72.665	403244	3561.512	0.051	0.043	-0.012	3561.5	-11.383	979141.748	-21.15	22.424	-8.131	-6.857
15205760	1520	5760	1/04/2007	91	8:57:25	-27 53 12.36998	135 35 06.66848	82.246	557597.532	6915203.078	74.96	403244	3555.084	0.079	0.026	-0.01	3555.074	-4.957	979135.322	-27.042	23.133	-8.388	-12.298
15205840	1520	5840	1/04/2007	91	9:02:01	-27 53 12.21183	135 35 36.00490	81.156	558399.646	6915204.086	73.842	403244	3556.587	0.054	0.03	-0.011	3556.576	-6.459	979136.824	-25.537	22.788	-8.263	-11.012
15205920	1520	5920	1/04/2007	91	9:06:34	-27 53 12.09084	135 36 05.25499	79.149	559199.396	6915203.909	71.807	403244	3558.811	0.043	0.033	-0.011	3558.8	-8.683	979139.048	-23.311	22.16	-8.035	-9.186
15206000	1520	6000	1/04/2007	91	9:12:11	-27 53 12.09294	135 36 34.68609	78.408	560004.077	6915199.866	71.036	403244	3560.84	0.057	0.037	-0.012	3560.828	-10.711	979141.076	-21.283	21.922	-7.949	-7.31
16005120	1600	5120	31/03/2007	90	14:19:56	-27 52 47.64188	135 31 12.49992	90.346	551198.353	6915992.874	83.26	403244	3548.81	0.066	0.026	-0.017	3548.793	1.265	979129.1	-32.752	25.694	-9.317	-16.374
16005120	1600	5120	1/04/2007	91	14:02:51	-27 52 47.63490	135 31 12.49968	90.293	551198.347	6915993.089	83.207	601307	3986.15	0.049	0.052	-0.038	3986.112	1.27	979129.095	-32.756	25.678	-9.311	-16.39
16005200	1600	5200	31/03/2007	90	14:25:24	-27 52 46.61304	135 31 41.58817	85.185	551993.84	6916021.13	78.074	403244	3550.266	0.044	0.022	-0.017	3550.249	-0.191	979130.556	-31.274	24.094	-8.736	-15.917
16005280	1600	5280	31/03/2007	90	14:30:30	-27 52 47.11785	135 32 11.84471	85.438	552821.07	6916002.001	78.3	403244	3550.711	0.045	0.018	-0.017	3550.694	-0.636	979131.001	-30.84	24.163	-8.762	-15.438
16005360	1600	5360	31/03/2007	90	14:35:34	-27 52 46.93183	135 32 40.81940	87.311	553613.343	6916004.23	80.146	403244	3550.742	0.07	0.014	-0.017	3550.725	-0.667	979131.032	-30.805	24.733	-8.968	-15.04
16005440	1600	5440	31/03/2007	90	14:39:54	-27 52 47.32475	135 33 09.85528	86.356	554407.211	6915988.583	79.165	403244	3551.252	0.067	0.009	-0.018	3551.234	-1.176	979131.541	-30.304	24.43	-8.859	-14.732
16005440	1600	5440	1/04/2007	91	8:08:22	-27 52 47.31645	135 33 09.86808	86.295	554407.562	6915988.837	79.104	403244	3551.29	0.046	-0.012	-0.006	3551.284	-1.167	979131.532	-30.313	24.411	-8.852	-14.753
16005520	1600	5520	1/04/2007	91	8:13:51	-27 52 46.78851	135 33 39.43647	86.288	555216.119	6916001.408	79.07	403244	3551.795	0.041	-0.008	-0.007	3551.788	-1.671	979132.036	-29.798	24.401	-8.848	-14.245
16005600	1600	5600	1/04/2007	91	8:17:56	-27 52 46.35018	135 34 08.44688	83.676	556009.408	6916011.238	76.431	403244	3553.298	0.056	-0.005	-0.007	3553.291	-3.174	979133.539	-28.286	23.587	-8.553	-13.252
16005680	1600	5680	1/04/2007	91	8:21:36	-27 52 45.89307	135 34 37.54657	82.072	556805.145	6916021.583	74.8	403244	3554.489	0.057	-0.003	-0.007	3554.482	-4.365	979134.73	-27.085	23.083	-8.37	-12.372
16005760	1600	5760	1/04/2007	91	8:26:08	-27 52 45.70027	135 35 05.98841	80.68	557582.857	6916023.827	73.382	403244	3555.502	0.04	0.001	-0.008	3555.494	-5.377	979135.742	-26.069	22.646	-8.211	-11.635
16005840	1600	5840	1/04/2007	91	8:30:35	-27 52 46.02119	135 35 36.05603	80.356	558404.947	6916009.999	73.029	403244	3556.531	0.058	0.005	-0.008	3556.523	-6.406	979136.771	-25.047	22.537	-8.172	-10.682
16005920	1600	5920	1/04/2007	91	8:34:35	-27 52 45.97585	135 36 04.70123	79.005	559188.199	6916007.576	71.651	403244	3558.402	0.071	0.008	-0.008	3558.394	-8.277	979138.642	-23.175	22.111	-8.018	-9.081
16805120	1680	5120	1/04/2007	91	13:57:39	-27 52 21.36788	135 31 12.05261	87.853	551189.553	6916801.404	80.756	601307	3985.84	0.058	0.055	-0.038	3985.802	1.58	979128.785	-32.522	24.921	-9.037	-16.637
16805200	1680	5200	1/04/2007	91	13:53:18	-27 52 21.13501	135 31 41.86553	87.986	552004.804	6916805.083	80.863	601307	3986.5	0.067	0.059	-0.037	3986.463	0.919	979129.446	-31.856	24.954	-9.049	-15.95
16805280	1680	5280	1/04/2007	91	13:47:46	-27 52 21.03707	135 32 10.84834	89.276	552797.339	6916804.654	82.128	601307	3986.955	0.092	0.062	-0.037	3986.918	0.464	979129.901	-31.399	25.345	-9.19	-15.244
16805360	1680	5360	1/04/2007	91	13:42:44	-27 52 21.29884	135 32 39.76049	89.175	553587.894	6916793.114	82	601307	3987.725	0.097	0.066	-0.036	3987.689	-0.307	979130.672	-30.634	25.305	-9.176	-14.504
16805440	1680	5440	1/04/2007	91	13:38:07	-27 52 20.78352	135 33 09.44199	87.462	554399.593	6916805.338	80.26	601307	3988.83	0.063	0.069	-0.036	3988.794	-1.412	979131.777	-29.518	24.768	-8.981	-13.731
16805520	1680	5520	1/04/2007	91	13:28:49	-27 52 20.78100	135 33 38.60078	84.192	555196.93	6916801.794	76.962	601307	3990.845	0.059	0.075	-0.035	3990.81	-3.428	979133.793	-27.502	23.75	-8.612	-12.363
16805600	1680	5600	1/04/2007	91	13:24:52	-27 52 20.74046	135 34 07.54909	82.912	555988.518	6916799.393	75.656	601307	3992.2	0.078	0.077	-0.035	3992.165	-4.783	979135.148	-26.146	23.347	-8.466	-11.264
16805680	1680	5680	1/04/2007	91	13:20:04	-27 52 20.81450	135 34 37.31048	81.869	556802.323	6916793.311	74.585	601307	3992.805	0.079	0.08	-0.034	3992.771	-5.389	979135.754	-25.541	23.017	-8.346	-10.871
16805760	1680	5760	1/04/2007	91	8:49:24	-27 52 19.69864	135 35 06.41936	80.915	557598.46	6916823.873	73.603	403244	3555.838	0.046	0.019	-0.01	3555.828	-5.711	979136.076	-25.196	22.714	-8.236	-10.719
16805840	1680	5840	1/04/2007	91	8:44:35	-27 52 20.04939	135 35 34.59456	80.326	558368.854	6916809.377	72.988	403244	3556.475	0.073	0.016	-0.009	3556.466	-6.349	979136.714	-24.566	22.524	-8.167	-10.209
16805920	1680	5920	1/04/2007	91	8:39:40	-27 52 19.96474	135 36 05.40237	83.367	559211.3	6916807.877	76	403244	3557.291	0.097	0.012	-0.009	3557.282	-7.165	979137.53	-23.748	23.454	-8.504	-8.799
17605120	1760	5120	1/04/2007	91	12:15:57	-27 51 55.62017	135 31 12.27984	91.397	551199.129	6917593.66	84.288	601307	3984.375	0.081	0.105	-0.028	3984.347	3.035	979127.33	-33.443	26.011	-9.432	-16.864
17605200	1760	5200	1/04/2007	91	12:22:06	-27 51 55.48670	135 31 41.68523	89.845	552003.275	6917594.329	82.71	601307	3985.685	0.082	0.104	-0.029	3985.656	1.726	979128.639	-32.132	25.524	-9.255	-15.862
17605280	1760	5280	1/04/2007	91	12:27:23	-27 51 55.28775	135 32 10.59076	86.874	552793.762	6917597.019	79.713	601307	3987.345	0.077	0.102	-0.029	3987.316	0.066	979130.299	-30.467	24.599	-8.92	-14.788
17605360	1760	5360	1/04/2007	91	12:33:28	-27 51 55.09596	135 32 40.15749	85.094	553602.331	6917599.356	77.906	601307	3988.98	0.062	0.101	-0.03	3988.95	-1.568	979131.933	-28.829	24.042	-8.718	-13.505
17605440	1760	5440	1/04/2007	91	12:40:13	-27 51 54.94761	135 33 09.23718	84.488	554397.577	6917600.362	77.272	601307	3990.66	0.058	0.098	-0.031	3990.629	-3.247	979133.612	-27.147	23.846	-8.647	-11.948
17605520	1760	5520	1/04/2007	91	12:44:50	-27 51 54.88777	135 33 38.39224	82.902	555194.873	6917598.583	75.66	601307	3992.625	0.079	0.097	-0.031	3992.594	-5.212	979135.577	-25.181	23.349	-8.466	-10.299
17605600	1760	5600	1/04/2007	91	12:49:02	-27 51 54.69420	135 34 08.25526	82.093	556011.548	6917600.777	74.823	601307	3993.61	0.071	0.095	-0.031	3993.579	-6.197	979136.562	-24.192	23.09	-8.373	-9.474
17605680	1760	5680	1/04/2007	91	12:53:25	-27 51 54.57785	135 34 37.35513	81.389	556807.345	6917600.637	74.091	601307	3993.43	0.048	0.094	-0.032	3993.398	-6.016	979136.381	-24.371	22.864	-8.291	-9.797
17605760	1760	5760	1/04/2007	91	12:57:15	-27 51 54.17808	135 35 06.16952	81.437	557595.377	6917609.204	74.113	601307	3993.045	0.031	0.092	-0.032	3993.013	-5.631	979135.996	-24.747	22.871	-8.293	-10.169
17605840	1760	5840	1/04/2007	91	13:01:53	-27 51 54.56288	135 35 35.62074	79.934	558400.71	6917593.492	72.582	601307	3993.81	0.099	0.09	-0.033	3993.777	-6.395	979136.76	-23.991	22.399	-8.122	-9.714
17605920	1760	5920	1/04/2007	91	13:06:43	-27 51 53.97606	135 36 05.01457	78.287	559204.619	6917607.632	70.906	601307	3995.235	0.058	0.087	-0.033	3995.202	-7.82	979138.185	-22.554	21.882	-7.934	-8.607
18405120	1840	5120	1/04/2007	91	12:10:14	-27 51 29.39890	135 31 11.88281	85.244	551191.693	6918400.56	78.119	601307	3985.53	0.071	0.106	-0.028	3985.502	1.88	979128.485	-31.745	24.108	-8.741	-16.379
18405200	1840	5200	1/04/2007	91	11:54:25	-27 51 29.34850	135 31 41.30969	84.289	551996.47	6918398.672	77.138	601307	3986.86	0.066	0.107	-0.026	3986.834	0.548	979129.817	-30.412	23.805	-8.632	-15.239
18405280	1840	5280	1/04/2007	91	11:49:18	-27 51 29.28594	135 32 10.77287	83.899	552802.243	6918397.099	76.72	601307	3988.295	0.071	0.108	-0.026	3988.269	-0.887	979131.252	-28.976	23.676	-8.585	-13.885
18405360	1840	5360	1/04/2007	91	11:43:57	-27 51 29.23089	135 32 39.91533	83.029	553599.244	6918395.28	75.824	601307	3990.14	0.096	0.108	-0.025	3990.115	-2.733	979133.098	-27.128	23.399	-8.485	-12.214
18405440	1840	5440	1/04/2007	91	11:38:00	-27 51 29.11107	135 33 09.11452	82.292	554397.806	6918395.395	75.059	601307	3992.11	0.076	0.107	-0.025	3992.085	-4.703	979135.068	-25.156	23.163	-8.399	-10.392
18405520	1840	5520	1/04/2007	91	11:32:28	-27 51 28.42539	135 33 38.26403	81.522	555195.09	6918412.875	74.262	601307	3993.4	0.043	0.107	-0.024	3993.376	-5.994	979136.359	-23.851	22.917	-8.31	-9.243
18405600	1840	5600	1/04/2007	91	11:27:47	-27 51 28.64749	135 34 07.56773	80.934	555996.465	6918402.35	73.647	601307	3993.335	0.035	0.106	-0.024	3993.311	-5.929	979136.294	-23.92	22.727	-8.241	-9.434
18405680	1840	5680	1/04/2007	91	11:22:17	-27 51 28.74485	135 34 36.74594	80.485	556794.426	6918395.626	73.17	601307	3993.075	0.069	0.105	-0.023	3993.052	-5.67	979136.035	-24.181	22.58	-8.188	-9.789
18405760	1840	5760	1/04/2007	91	11:16:55	-27 51 28.77820	135 35 05.94039	79.662	557592.84	6918390.817	72.32	601307	3993.29	0.056	0.104	-0.023	3993.267	-5.885	979136.25	-23.967	22.318	-8.093	-9.742
18405840	1840	5840	1/04/2007	91	11:09:05	-27 51 28.29729	135 35 35.39344	78.874	558398.404	6918401.745	71.504	601307	3993.795	0.092	0.103	-0.022	3993.773	-6.391	979136.756	-23.451	22.066	-8.001	-9.386
18405920	1840	5920	1/04/2007	91	11:01:37	-27 51 28.20964	135 36 04.55414	78.497	559195.917	6918400.558	71.099	601307	3994.605	0.041	0.1	-0.021	3994.584	-7.202	979137.567	-22.638	21.941	-7.956	-8.653
19205120	1920	5120	1/04/2007	91	9:58:55	-27 51 03.68631	135 31 11.99098	84.251	551198.007	6919191.748	77.11	601307	3986.01	0.062	0.071	-0.016	3985.994	1.388	979128.977	-30.72	23.796	-8.629	-15.553
19205200	1920	5200	1/04/2007	91	10:03:52	-27 51 03.22180	135 31 41.24561	83.466	551998.18	6919202.623	76.298	601307	3987.46	0.244	0.074	-0.016	3987.444	-0.062	979130.427	-29.26	23.546	-8.538	-14.253
19205280	1920	5280	1/04/2007	91	10:10:45	-27 51 03.29718	135 32 10.25294	82.718	552791.52	6919196.861	75.522	601307	3989.165	0.051	0.078	-0.017	3989.148	-1.766	979132.131	-27.558	23.306	-8.451	-12.703
19205360	1920	5360	1/04/2007	91	10:16:46	-27 51 03.31442	135 32 39.83187	82.204	553600.501	6919192.766	74.982	601307	3990.7	0.044	0.081	-0.017	3990.683	-3.301	979133.666	-26.023	23.139	-8.39	-11.274
19205440	1920	5440	1/04/2007	91	10:22:35	-27 51 03.20150	135 33 08.89745	81.467	554395.461	6919192.686	74.217	601307	3991.86	0.114	0.084	-0.018	3991.842	-4.46	979134.825	-24.862	22.903	-8.305	-10.264
19205520	1920	5520	1/04/2007	91	10:28:22	-27 51 02.91899	135 33 38.23130	80.627	555197.783	6919197.738	73.349	601307	3992.34	0.043	0.087	-0.018	3992.322	-4.94	979135.305	-24.376	22.636	-8.208	-9.948
19205600	1920	5600	1/04/2007	91	10:35:08	-27 51 02.76219	135 34 07.73676	80.147	556004.783	6919198.848	72.842	601307	3992.55	0.102	0.09	-0.019	3992.531	-5.149	979135.514	-24.164	22.479	-8.151	-9.836
19205680	1920	5680	1/04/2007	91	10:41:12	-27 51 02.75146	135 34 37.01623	79.422	556805.581	6919195.437	72.089	601307	3992.99	0.087	0.093	-0.02	3992.97	-5.588	979135.953	-23.725	22.247	-8.067	-9.545
19205760	1920	5760	1/04/2007	91	10:48:16	-27 51 02.51047	135 35 06.34784	78.784	557607.84	6919199.052	71.423	601307	3993.52	0.103	0.096	-0.02	3993.5	-6.118	979136.483	-23.19	22.041	-7.992	-9.141
19205840	1920	5840	31/03/2007	90	15:17:22	-27 51 02.52692	135 35 35.61205	79.235	558408.219	6919194.7	71.847	601307	3993.675	0.103	-0.02	-0.158	3993.517	-6.297	979136.662	-23.011	22.172	-8.04	-8.879
19205920	1920	5920	31/03/2007	90	15:24:30	-27 51 02.21825	135 36 04.44335	78.163	559196.808	6919200.359	70.748	601307	3994.4	0.048	-0.025	-0.16	3994.24	-7.02	979137.385	-22.282	21.833	-7.917	-8.366
20005120	2000	5120	1/04/2007	91	9:53:22	-27 50 37.38417	135 31 12.13465	83.601	551205.367	6920001.072	76.443	601307	3987.085	0.055	0.067	-0.015	3987.07	0.312	979130.053	-29.099	23.59	-8.554	-14.063
20005200	2000	5200	1/04/2007	91	9:47:47	-27 50 37.81241	135 31 41.38960	82.42	552005.485	6919984.476	75.235	601307	3988.645	0.054	0.063	-0.015	3988.63	-1.248	979131.613	-27.548	23.218	-8.419	-12.749
20005280	2000	5280	1/04/2007	91	9:42:14	-27 50 37.35491	135 32 10.26449	81.453	552795.326	6919995.128	74.24	601307	3989.96	0.049	0.059	-0.014	3989.946	-2.564	979132.929	-26.223	22.91	-8.307	-11.619
20005360	2000	5360	1/04/2007	91	9:35:18	-27 50 37.22908	135 32 39.68691	81.198	553600.099	6919995.455	73.958	601307	3990.745	0.095	0.054	-0.013	3990.732	-3.35	979133.715	-25.434	22.823	-8.276	-10.887
20005440	2000	5440	1/04/2007	91	9:27:44	-27 50 36.75268	135 33 09.18345	81.195	554406.95	6920006.507	73.927	601307	3991.315	0.075	0.049	-0.013	3991.302	-3.92	979134.285	-24.854	22.814	-8.272	-10.313
20005520	2000	5520	1/04/2007	91	9:20:04	-27 50 36.86634	135 33 38.23491	79.46	555201.546	6919999.405	72.165	601307	3992.105	0.067	0.044	-0.012	3992.093	-4.711	979135.076	-24.066	22.27	-8.075	-9.871
20005600	2000	5600	1/04/2007	91	9:10:22	-27 50 37.19879	135 34 07.00577	79.051	555988.437	6919985.552	71.729	601307	3992.515	0.05	0.036	-0.011	3992.504	-5.122	979135.487	-23.661	22.136	-8.026	-9.552
20005680	2000	5680	1/04/2007	91	9:01:13	-27 50 40.64768	135 34 36.54589	78.634	556795.916	6919875.654	71.287	601307	3993.04	0.038	0.029	-0.01	3993.03	-5.648	979136.013	-23.207	21.999	-7.977	-9.185
20005760	2000	5760	31/03/2007	90	14:55:48	-27 50 36.58587	135 35 05.64568	79.752	557592.44	6919996.872	72.374	601307	3993.3	0.061	-0.003	-0.151	3993.149	-5.929	979136.294	-22.842	22.335	-8.099	-8.606
20005840	2000	5840	31/03/2007	90	14:48:15	-27 50 36.32844	135 35 35.27493	79.207	558402.897	6920000.902	71.801	601307	3993.695	0.06	0.003	-0.148	3993.547	-6.327	979136.692	-22.438	22.158	-8.035	-8.315
20005920	2000	5920	31/03/2007	90	14:42:06	-27 50 36.22695	135 36 04.29228	79.657	559196.596	6920000.161	72.224	601307	3993.795	0.079	0.008	-0.146	3993.649	-6.429	979136.794	-22.334	22.288	-8.082	-8.128
21204760	2120	4760	31/03/2007	90	13:48:55	-27 49 58.61790	135 29 00.25366	85.123	547602.897	6921208.693	78.069	403244	3543.726	0.056	0.05	-0.016	3543.71	6.348	979124.017	-34.332	24.092	-8.736	-18.976
21204840	2120	4840	31/03/2007	90	13:42:29	-27 49 59.20462	135 29 27.60177	84.917	548350.915	6921187.67	77.837	403244	3545.288	0.042	0.056	-0.015	3545.273	4.785	979125.58	-32.781	24.02	-8.71	-17.471
21204920	2120	4920	31/03/2007	90	13:32:03	-27 49 57.70157	135 29 58.51333	83.942	549196.669	6921230.507	76.832	403244	3547.385	0.039	0.063	-0.015	3547.37	2.688	979127.677	-30.653	23.71	-8.597	-15.54

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
21205000	2120	5000	31/03/2007	90	13:09:55	-27 49 57.11186	135 30 30.65726	84.173	550076.025	6921245.041	77.031	403244	3548.919	0.045	0.078	-0.014	3548.905	1.153	979129.212	-29.106	23.772	-8.62	-13.954
21205080	2120	5080	31/03/2007	90	12:50:03	-27 49 56.65486	135 30 57.60787	83.531	550813.305	6921256.026	76.363	403244	3550.174	0.032	0.09	-0.013	3550.161	-0.103	979130.468	-27.841	23.566	-8.545	-12.82
21205160	2120	5160	31/03/2007	90	12:36:15	-27 49 56.63739	135 31 27.03199	82.38	551618.193	6921253.152	75.183	403244	3551.426	0.045	0.097	-0.013	3551.413	-1.355	979131.72	-26.588	23.201	-8.413	-11.8
21205240	2120	5240	31/03/2007	90	12:29:28	-27 49 57.10830	135 31 55.87248	81.967	552407.05	6921235.266	74.742	403244	3552.512	0.043	0.1	-0.012	3552.5	-2.442	979132.807	-25.511	23.065	-8.364	-10.809
21205320	2120	5320	31/03/2007	90	12:22:55	-27 49 58.88562	135 32 24.12288	81.647	553179.588	6921177.2	74.396	403244	3553.47	0.05	0.103	-0.012	3553.458	-3.4	979133.765	-24.59	22.959	-8.325	-9.956
21205400	2120	5400	31/03/2007	90	12:17:21	-27 49 58.27783	135 32 54.50636	84.442	554010.796	6921192.216	77.162	403244	3553.672	0.033	0.105	-0.012	3553.66	-3.602	979133.967	-24.375	23.812	-8.634	-9.197
21205480	2120	5480	31/03/2007	90	12:12:00	-27 49 57.81013	135 33 22.45873	85.644	554775.486	6921203.166	78.338	403244	3553.836	0.063	0.107	-0.012	3553.824	-3.766	979134.131	-24.202	24.175	-8.766	-8.792
21205560	2120	5560	31/03/2007	90	12:07:32	-27 49 57.02677	135 33 51.60417	89.32	555572.859	6921223.631	81.986	403244	3553.042	0.073	0.108	-0.012	3553.03	-2.972	979133.337	-24.979	25.301	-9.174	-8.853
21205640	2120	5640	31/03/2007	90	12:00:00	-27 49 57.33845	135 34 22.66272	86.181	556422.412	6921210.103	78.818	403244	3554.146	0.102	0.11	-0.011	3554.135	-4.077	979134.442	-23.881	24.323	-8.82	-8.377
21205720	2120	5720	30/03/2007	89	13:18:37	-27 49 57.40443	135 34 53.29536	80.591	557260.348	6921204.131	73.199	601307	3992.67	0.065	0.058	-0.073	3992.597	-5.497	979135.862	-22.462	22.589	-8.191	-8.064
21205800	2120	5800	30/03/2007	89	13:27:35	-27 49 56.88915	135 35 20.28486	80.521	557998.715	6921216.466	73.103	601307	3992.84	0.066	0.051	-0.075	3992.765	-5.665	979136.03	-22.284	22.56	-8.18	-7.904
21205880	2120	5880	30/03/2007	89	13:34:49	-27 49 57.29906	135 35 49.23791	83.608	558790.657	6921200.026	76.164	601307	3992.105	0.061	0.045	-0.077	3992.028	-4.928	979135.293	-23.029	23.504	-8.523	-8.047
21205880	2120	5880	1/04/2007	91	8:35:55	-27 49 57.29434	135 35 49.24347	83.58	558790.81	6921200.17	76.135	601307	3992.355	0.042	0.009	-0.008	3992.347	-4.965	979135.33	-22.992	23.495	-8.519	-8.016
21205960	2120	5960	30/03/2007	89	13:41:43	-27 49 56.92075	135 36 19.01194	87.986	559605.176	6921207.677	80.514	601307	3991.105	0.05	0.04	-0.078	3991.027	-3.927	979134.292	-24.022	24.847	-9.009	-8.185
21205960	2120	5960	1/04/2007	91	8:28:57	-27 49 56.91724	135 36 19.01279	87.988	559605.2	6921207.785	80.515	601307	3991.355	0.03	0.004	-0.007	3991.348	-3.966	979134.331	-23.983	24.847	-9.01	-8.146
21206040	2120	6040	30/03/2007	89	13:48:11	-27 49 56.93819	135 36 47.86261	91.733	560394.378	6921203.222	84.234	601307	3990.54	0.063	0.035	-0.079	3990.461	-3.361	979133.726	-24.589	25.995	-9.426	-8.02
21206120	2120	6120	30/03/2007	89	13:54:12	-27 49 57.01069	135 37 16.90304	99.664	561188.763	6921196.995	92.139	601307	3989.06	0.042	0.03	-0.081	3988.979	-1.879	979132.244	-26.072	28.434	-10.31	-7.948
21206200	2120	6200	30/03/2007	89	14:02:00	-27 49 57.19776	135 37 46.09528	103.581	561987.283	6921187.168	96.029	601307	3989.835	0.043	0.024	-0.082	3989.753	-2.653	979133.018	-25.302	29.635	-10.746	-6.413
21206280	2120	6280	30/03/2007	89	14:09:22	-27 49 56.41818	135 38 15.49556	113.762	562791.648	6921207.005	106.184	601307	3989.535	0.038	0.018	-0.084	3989.451	-2.351	979132.716	-25.588	32.768	-11.882	-4.701
21206360	2120	6360	30/03/2007	89	14:15:55	-27 49 56.50200	135 38 44.70290	120.944	563590.599	6921200.247	113.34	601307	3990.105	0.038	0.013	-0.085	3990.02	-2.92	979133.285	-25.02	34.977	-12.683	-2.726
21604920	2160	4920	5/04/2007	95	9:48:00	-27 49 45.46222	135 29 58.53943	83.997	549198.916	6921607.118	76.882	601307	3985.205	0.066	-0.041	-0.017	3985.188	-5.51	979127.951	-30.126	23.726	-8.603	-15.003
21605080	2160	5080	5/04/2007	95	10:29:28	-27 49 45.41476	135 30 57.04812	83.784	550799.448	6921601.957	76.612	601307	3987.75	0.098	-0.018	-0.023	3987.727	-8.049	979130.49	-27.586	23.642	-8.573	-12.516
21605240	2160	5240	5/04/2007	95	11:02:06	-27 49 45.36293	135 31 55.47745	83.344	552397.811	6921596.728	76.114	601307	3990.135	0.041	0.001	-0.027	3990.108	-10.43	979132.871	-25.204	23.489	-8.517	-10.232
21605720	2160	5720	5/04/2007	95	11:51:09	-27 49 44.77445	135 34 51.20779	80.516	557205.083	6921593.039	73.122	601307	3993.285	0.054	0.025	-0.034	3993.251	-13.573	979136.014	-22.049	22.565	-8.182	-7.665
22004760	2200	4760	31/03/2007	90	8:26:37	-27 49 32.93373	135 28 59.82412	84.742	547594.259	6921999.06	77.679	403244	3544.113	0.034	0.034	-0.003	3544.11	5.948	979124.417	-33.4	23.972	-8.692	-18.121
22004840	2200	4840	31/03/2007	90	8:40:32	-27 49 33.58104	135 29 29.34601	84.26	548401.785	6921975.936	77.169	403244	3546.004	0.027	0.044	-0.003	3546.001	4.057	979126.308	-31.523	23.814	-8.635	-16.344
22004840	2200	4840	5/04/2007	95	9:13:42	-27 49 33.58636	135 29 29.34678	84.068	548401.805	6921975.772	76.977	601307	3983.55	0.021	-0.056	-0.013	3983.537	-3.859	979126.3	-31.531	23.755	-8.614	-16.39
22004880	2200	4880	5/04/2007	95	9:22:04	-27 49 32.36569	135 29 44.00972	84.473	548803.079	6922011.72	77.367	601307	3984.245	0.042	-0.053	-0.014	3984.231	-4.553	979126.994	-30.812	23.875	-8.657	-15.593
22004920	2200	4920	31/03/2007	90	8:49:52	-27 49 33.68474	135 29 58.60318	84.677	549202.135	6921969.513	77.557	403244	3547.502	0.047	0.051	-0.004	3547.498	2.56	979127.805	-30.028	23.934	-8.679	-14.772
22004920	2200	4920	5/04/2007	95	9:40:40	-27 49 31.65401	135 29 59.95607	86.041	549239.4	6922031.849	78.92	601307	3984.875	0.023	-0.044	-0.016	3984.859	-5.181	979127.622	-30.169	24.355	-8.831	-14.645
22004960	2200	4960	5/04/2007	95	10:02:22	-27 49 32.50837	135 30 13.19264	87.626	549601.395	6922004.08	80.492	601307	3985.025	0.053	-0.033	-0.019	3985.006	-5.328	979127.769	-30.04	24.84	-9.007	-14.207
22005000	2200	5000	31/03/2007	90	9:17:42	-27 49 32.59719	135 30 28.45373	90.205	550018.87	6921999.626	83.056	403244	3547.665	0.044	0.07	-0.005	3547.66	2.398	979127.967	-29.843	25.631	-9.294	-13.506
22005040	2200	5040	5/04/2007	95	10:12:13	-27 49 32.48692	135 30 42.11716	90.4	550392.664	6922001.467	83.238	601307	3985.685	0.079	-0.028	-0.021	3985.664	-5.986	979128.427	-29.381	25.687	-9.314	-13.008
22005080	2200	5080	31/03/2007	90	9:22:33	-27 49 32.55027	135 30 57.01197	84.332	550800.122	6921997.812	77.155	403244	3550.26	0.052	0.073	-0.005	3550.255	-0.197	979130.562	-27.247	23.81	-8.634	-12.071
22005080	2200	5080	5/04/2007	95	10:24:20	-27 49 32.55048	135 30 57.01194	84.24	550800.121	6921997.806	77.063	601307	3987.755	0.032	-0.021	-0.022	3987.733	-8.055	979130.496	-27.313	23.782	-8.623	-12.155
22005120	2200	5120	5/04/2007	95	10:36:46	-27 49 32.43303	135 31 11.84164	84.497	551205.822	6921999.708	77.305	601307	3988.425	0.094	-0.013	-0.024	3988.401	-8.723	979131.164	-26.643	23.856	-8.65	-11.437
22005160	2200	5160	31/03/2007	90	9:27:28	-27 49 32.43141	135 31 26.75539	90.825	551613.807	6921998.023	83.618	403244	3550.134	0.042	0.076	-0.005	3550.129	-0.071	979130.436	-27.371	25.805	-9.357	-10.923
22005200	2200	5200	5/04/2007	95	10:45:02	-27 49 32.26209	135 31 40.77152	85.087	551997.259	6922001.59	77.867	601307	3989.545	0.045	-0.009	-0.025	3989.52	-9.842	979132.283	-25.52	24.03	-8.713	-10.204
22005240	2200	5240	31/03/2007	90	9:33:05	-27 49 32.50563	135 31 56.07534	88.25	552415.882	6921992.287	81.015	403244	3551.936	0.041	0.08	-0.005	3551.931	-1.873	979132.238	-25.571	25.001	-9.066	-9.635
22005240	2200	5240	5/04/2007	95	10:54:57	-27 49 32.49707	135 31 56.07803	88.082	552415.957	6921992.55	80.847	601307	3989.455	0.069	-0.003	-0.026	3989.429	-9.751	979132.192	-25.616	24.949	-9.047	-9.714
22005280	2200	5280	5/04/2007	95	11:07:01	-27 49 31.88953	135 32 10.25056	85.423	552803.747	6922009.558	78.174	601307	3990.46	0.062	0.004	-0.028	3990.432	-10.754	979133.195	-24.601	24.124	-8.748	-9.224
22005320	2200	5320	31/03/2007	90	9:38:03	-27 49 32.30477	135 32 24.96510	88.563	553206.227	6921995.015	81.3	403244	3552.572	0.048	0.083	-0.006	3552.566	-2.508	979132.873	-24.931	25.089	-9.097	-8.94
22005320	2200	5320	5/04/2007	95	12:28:33	-27 49 32.29400	135 32 24.96174	88.451	553206.137	6921995.347	81.188	601307	3990.13	0.025	0.039	-0.039	3990.091	-10.413	979132.854	-24.95	25.055	-9.085	-8.981
22005400	2200	5400	31/03/2007	90	9:42:38	-27 49 32.10590	135 32 54.42240	89.907	554012.098	6921997.561	82.617	403244	3552.954	0.046	0.085	-0.006	3552.948	-2.89	979133.255	-24.545	25.496	-9.245	-8.294
22005560	2200	5560	31/03/2007	90	9:46:49	-27 49 32.61218	135 33 23.41732	89.573	554805.224	6921978.412	82.256	403244	3553.506	0.041	0.088	-0.006	3553.5	-3.442	979133.807	-24.004	25.384	-9.204	-7.824
22005640	2200	5640	31/03/2007	90	9:50:41	-27 49 31.68144	135 33 52.43607	89.19	555599.204	6922003.426	81.845	403244	3553.733	0.037	0.09	-0.006	3553.727	-3.669	979134.034	-23.757	25.257	-9.158	-7.658
22005640	2200	5640	5/04/2007	95	9:55:59	-27 49 31.52884	135 34 22.24206	88.923	556414.612	6922004.344	81.551	403244	3553.686	0.032	0.093	-0.006	3553.68	-3.622	979133.987	-23.801	25.167	-9.126	-7.76
22005640	2200	5640	5/04/2007	95	12:11:10	-27 49 31.53060	135 34 22.23523	88.845	556414.425	6922004.291	81.473	601307	3991.25	0.062	0.033	-0.036	3991.214	-11.536	979133.977	-23.811	25.143	-9.117	-7.786
22005680	2200	5680	5/04/2007	95	11:26:44	-27 49 31.65569	135 34 36.09121	86.649	556793.457	6921998.667	79.263	601307	3991.765	0.067	0.014	-0.031	3991.734	-12.056	979134.497	-23.294	24.461	-8.87	-7.703
22005720	2200	5720	31/03/2007	90	10:02:08	-27 49 31.55561	135 34 49.72982	81.338	557166.576	6921999.987	73.94	403244	3555.553	0.034	0.096	-0.007	3555.546	-5.488	979135.853	-21.936	22.818	-8.274	-7.392
22005720	2200	5720	5/04/2007	95	11:57:40	-27 49 31.56234	135 34 49.71861	81.281	557166.269	6921999.782	73.883	601307	3993.07	0.016	0.028	-0.035	3993.035	-13.357	979135.798	-21.991	22.8	-8.267	-7.458
22005760	2200	5760	5/04/2007	95	11:43:42	-27 49 31.50424	135 35 05.36684	81.533	557594.358	6921999.537	74.121	601307	3993.07	0.082	0.022	-0.033	3993.037	-13.359	979135.8	-21.988	22.874	-8.294	-7.408
22005800	2200	5800	30/03/2007	89	13:04:07	-27 49 31.15355	135 35 20.32083	82.262	558003.499	6922008.372	74.835	601307	3992.245	0.064	0.068	-0.07	3992.175	-5.075	979135.44	-22.341	23.094	-8.374	-7.621
22005880	2200	5880	30/03/2007	89	12:57:27	-27 49 31.22927	135 35 49.86397	84.798	558811.686	6922002.137	77.344	601307	3991.465	0.047	0.073	-0.069	3991.396	-4.296	979134.661	-23.121	23.868	-8.655	-7.908
22005960	2200	5960	30/03/2007	89	12:51:13	-27 49 31.35022	135 36 18.72756	89.555	559601.277	6921994.548	82.075	601307	3990	0.055	0.076	-0.068	3989.932	-2.832	979133.197	-24.588	25.328	-9.184	-8.443
22006040	2200	6040	30/03/2007	89	12:45:31	-27 49 30.87208	135 36 47.45696	93.247	560387.289	6922005.36	85.741	601307	3989.37	0.072	0.08	-0.067	3989.303	-2.203	979132.568	-25.207	26.46	-9.594	-8.341
22006120	2200	6120	30/03/2007	89	12:38:01	-27 49 31.69548	135 37 17.14241	98.916	561199.255	6921975.939	91.384	601307	3988.615	0.074	0.084	-0.065	3988.55	-1.45	979131.815	-25.977	28.201	-10.226	-8.002
22006200	2200	6200	30/03/2007	89	12:26:28	-27 49 30.75745	135 37 46.78190	103.705	562010.239	6922000.671	96.146	601307	3988.655	0.039	0.091	-0.063	3988.592	-1.492	979131.857	-25.915	29.671	-10.759	-7.003
22006280	2200	6280	30/03/2007	89	12:19:22	-27 49 30.78733	135 38 16.14005	113.072	562813.377	6921995.605	105.488	601307	3988.135	0.049	0.095	-0.061	3988.074	-0.974	979131.339	-26.434	32.554	-11.804	-5.684
22006360	2200	6360	30/03/2007	89	12:12:16	-27 49 30.38480	135 38 44.79353	122.995	563597.308	6922003.892	115.386	601307	3988.115	0.079	0.098	-0.06	3988.055	-0.955	979131.32	-26.445	35.608	-12.912	-3.748
22404920	2240	4920	5/04/2007	95	9:33:33	-27 49 19.58679	135 29 58.42886	89.535	549199.132	6922403.337	82.411	601307	3983.71	0.04	-0.048	-0.015	3983.695	-4.017	979126.458	-31.083	25.432	-9.222	-14.873
22405080	2240	5080	5/04/2007	95	10:18:34	-27 49 19.46587	135 30 57.07194	86.032	550803.455	6922400.423	78.85	601307	3987.35	0.031	-0.024	-0.021	3987.329	-7.651	979130.092	-27.446	24.333	-8.823	-11.937
22405240	2240	5240	5/04/2007	95	10:50:40	-27 49 19.32891	135 31 55.57234	89.747	552403.88	6922397.806	82.507	601307	3989.34	0.062	-0.005	-0.026	3989.314	-9.636	979132.077	-25.459	25.462	-9.233	-9.23
22405720	2240	5720	5/04/2007	95	11:34:57	-27 49 18.48815	135 34 50.87869	81.525	557199.908	6922401.937	74.122	601307	3992.91	0.069	0.018	-0.032	3992.878	-13.2	979135.641	-21.877	22.874	-8.294	-7.298
22804760	2280	4760	27/03/2007	86	14:29:23	-27 49 07.02768	135 29 00.96566	89.586	547628.628	6922796.085	82.512	403244	3542.384	0.078	-0.039	-0.051	3542.333	-0.451	979122.892	-34.389	25.463	-9.233	-18.159
22804840	2280	4840	27/03/2007	86	14:24:02	-27 49 07.27218	135 29 29.28792	90.338	548403.437	6922785.484	83.237	403244	3543.734	0.092	-0.037	-0.05	3543.684	-1.802	979124.243	-33.043	25.687	-9.314	-16.67
22804920	2280	4920	27/03/2007	86	14:17:54	-27 49 06.64967	135 29 58.25347	93.207	549195.954	6922801.441	86.078	403244	3544.654	0.076	-0.035	-0.05	3544.604	-2.722	979125.163	-32.11	26.564	-9.632	-15.179
22805000	2280	5000	27/03/2007	86	14:01:52	-27 49 07.00646	135 30 28.33626	86.518	550018.914	6922787.086	79.359	403244	3547.898	0.073	-0.028	-0.048	3547.85	-5.968	979128.409	-28.872	24.49	-8.88	-13.262
22805080	2280	5080	27/03/2007	86	13:55:59	-27 49 06.24883	135 30 57.84226	89.049	550826.238	6922807.033	81.861	403244	3549.019	0.056	-0.026	-0.047	3548.972	-7.09	979129.531	-27.734	25.262	-9.16	-11.632
22805160	2280	5160	27/03/2007	86	13:50:32	-27 49 06.72219	135 31 26.19586	91.238	551601.877	6922789.181	84.022	403244	3550.135	0.076	-0.023	-0.046	3550.089	-8.207	979130.648	-26.627	25.929	-9.402	-10.1
22805240	2280	5240	27/03/2007	86	13:38:19	-27 49 06.25070	135 31 54.82407	91.697	552385.153	6922800.322	84.453	403244	3551.478	0.091	-0.017	-0.045	3551.433	-9.551	979131.992	-25.273	26.062	-9.45	-8.661
22805320	2280	5320	27/03/2007	86	13:33:55	-27 49 06.14195	135 32 24.26982	90.264	553190.749	6922800.151	82.993	403244	3552.707	0.077	-0.015	-0.045	3552.662	-10.78	979133.221	-24.042	25.612	-9.287	-7.717
22805400	2280	5400	27/03/2007	86	13:28:48	-27 49 06.46106	135 32 54.93711	91.365	554029.706	6922786.612	84.065	403244	3553.1	0.082	-0.013	-0.044	3553.056	-11.174	979133.615	-23.654	25.942	-9.407	-7.119
22805480	2280	5480	27/03/2007	86	13:22:54	-27 49 05.97554	135 33 22.71142	89.536	554789.628	6922798.133	82.209	403244	3553.801	0.077	-0.01	-0.043	3553.758	-11.876	979134.317	-22.942	25.37	-9.199	-6.772
22805560	2280	5560	26/03/2007	85	15:16:09	-27 49 05.30268	135 33 52.88956	88.428	555615.343	6922815.068	81.074	403244	3553.863	0.052	-0.048	0.034	3553.897	-11.994	979134.435	-22.81	25.019	-9.072	-6.863
22805640	2280	5640	26/03/2007	85	15:12:12	-27 49 06.03774	135 34 22.26127	89.456	556418.798	6922788.727	82.074	403244	3553.289	0.051	-0.048	0.034	3553.323	-11.42	979133.861	-23.4	25.328	-9.184	-7.256
22805720	2280	5720	30/03/2007	89	11:05:26	-27 49 05.10674	135 34 51.42688	82.446	557216.854	6922813.625	75.037	601307	3992.085	0.063	0.118	-0.046	3992.039	-4.939	979135.304	-21.937	23.156	-8.397	-7.177
22805800	2280	5800	30/03/2007	89	11:16:09	-27 49 05.42383	135 35 19.73310	83.306	557991.218	6922800.179	75.872	601307	3991.845	0.052	0.116	-0.049	3991.796	-4.696	979135.061	-22.187	23.414	-8.49	-7.263
22805880	2280	5880	30/03/2007	89	11:22:14	-27 49 05.55351	135 35 48.95928	85.423	558790.779	6922792.327	77.961	601307	3991.185	0.059	0.115	-0.05	3991.135	-4.035	979134.4	-22.85	24.059	-8.724	-7.515
22805960	2280	5960	30/03/2007	89	11:28:14	-27 49 04.58713	135 36 17.96801	90.068	559584.557	6922818.179	82.58	601307	3989.77	0.048	0.114	-0.051	3989.719	-2.619	979132.984	-24.247	25.484	-9.241	-8.003
22806040	2280	6040	30/03/2007	89	11:34:29	-27 49 04.32455	135 36 47.57359	93.928	560394.56	6922822.24	86.415	601307	3988.51	0.062	0.112	-0.052	3988.458	-1.358	979131.723	-25.502	26.668	-9.67	-8.504
22806120	2280	6120	30/03/2007	89	11:40:43	-27 49 04.92810	135 37 16.82745	98.891	561194.808	6922799.644	91.351	601307	3987.28	0.053	0.11	-0.054	3987.226	-0.126	979130.491	-26.747	28.191	-10.222	-8.778
22806200	2280	6200	30/03/2007	89	11:47:05	-27 49 04.83766	135 37 45.86993	103.338	561989.38	6922798.38	95.773	601307	3986.76	0.067	0.108	-0.055	3986.705	0.395	979129.97	-27.266	29.556	-10.717	-8.427
22806280	2280	6280	30/03/2007	89	11:52:55	-27 49 04.74708	135 38 14.71381	109.155	562778.52	6922797.096	101.566	601307	3986.77	0.053	0.106	-0.056	3986.714	0.386	979129.979	-27.255	31.343	-11.365	-7.277
22806360	2280	6360	30/03/2007	89	11:58:45	-27 49 04.53346	135 38 44.58212	117.611	563595.708	6922799.399	109.997	601307	3986.84	0.065	0.104	-0.057	3986.783	0.317	979130.048	-27.181	33.945	-12.309	-5.545
23604760	2360	4760	27/03/2007	86	14:35:06	-27 48 41.87984	135 28 59.58273	89.216	547593.839	6923570.049	82.134	403244	3541.602	0.088	-0.041	-0.051	3541.551	0.331	979122.11	-34.651	25.347	-9.191	-18.495
23604840	2360	4840	27/03/2007	86	14:39:56	-27 48 40.99385	135 29 28.44825	94.691	548383.7	6923594.178	87.581	403244	3542.074	0.098	-0.043	-0.052	3542.022	-0.14	979122.581	-34.161	27.027	-9.8	-16.934
23604920	2360	4920	27/03/2007	86	14:44:15	-27 48 40.31420	135 29 57.68488	88.199	549183.694	6923611.865	81.06	403244	3545.601	0.081	-0.044	-0.052	3545.549	-3.667	979126.108	-30.62	25.015	-9.071	-14.676

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
23605000	2360	5000	26/03/2007	85	14:19:48	-27 48 41.22889	135 30 27.75502	90.299	550006.293	6923580.346	83.131	403244	3547.177	0.093	-0.041	0.03	3547.207	-5.304	979127.745	-29.002	25.654	-9.302	-12.65
23605080	2360	5080	26/03/2007	85	14:24:51	-27 48 40.50825	135 30 56.89266	90.148	550803.587	6923599.199	82.951	403244	3549.313	0.048	-0.041	0.031	3549.344	-7.441	979129.882	-26.85	25.599	-9.282	-10.534
23605160	2360	5160	26/03/2007	85	14:29:05	-27 48 41.21810	135 31 25.72504	90.951	551592.344	6923574.017	83.726	403244	3551.036	0.072	-0.042	0.031	3551.067	-9.164	979131.605	-25.142	25.838	-9.369	-8.673
23605240	2360	5240	26/03/2007	85	14:36:56	-27 48 39.67206	135 31 54.02478	93.287	552366.827	6923618.262	86.034	403244	3552.075	0.045	-0.044	0.032	3552.107	-10.204	979132.645	-24.07	26.55	-9.627	-7.147
23605320	2360	5320	26/03/2007	85	14:41:00	-27 48 40.09039	135 32 25.16428	92.74	553218.747	6923601.671	85.458	403244	3553.183	0.092	-0.044	0.032	3553.215	-11.312	979133.753	-22.97	26.372	-9.563	-6.161
23605400	2360	5400	26/03/2007	85	14:44:42	-27 48 40.38402	135 32 53.48569	92.285	553993.58	6923589.202	84.976	403244	3553.7	0.073	-0.045	0.032	3553.732	-11.829	979134.27	-22.46	26.224	-9.509	-5.745
23605480	2360	5480	26/03/2007	85	14:49:27	-27 48 40.13613	135 33 22.87860	91.82	554797.804	6923593.213	84.484	403244	3553.883	0.041	-0.045	0.032	3553.915	-12.012	979134.453	-22.271	26.072	-9.454	-5.653
23605560	2360	5560	26/03/2007	85	14:52:51	-27 48 40.15512	135 33 52.16647	90.766	555599.118	6923588.971	83.403	403244	3553.693	0.046	-0.046	0.033	3553.726	-11.823	979134.264	-22.461	25.738	-9.333	-6.055
23605640	2360	5640	26/03/2007	85	14:56:21	-27 48 40.24705	135 34 21.49612	85.292	556401.565	6923582.427	77.902	403244	3554.54	0.051	-0.046	0.033	3554.573	-12.67	979135.111	-21.616	24.041	-8.717	-6.292
23605720	2360	5720	26/03/2007	85	15:02:06	-27 48 40.64824	135 34 49.00106	83.143	557154.044	6923566.55	75.727	403244	3554.737	0.044	-0.047	0.033	3554.77	-12.867	979135.308	-21.427	23.369	-8.474	-6.531
23605800	2360	5800	30/03/2007	89	10:51:56	-27 48 40.18227	135 35 18.75632	84.146	557968.218	6923577.014	76.703	601307	3991.485	0.061	0.118	-0.044	3991.441	-4.341	979134.706	-22.019	23.671	-8.583	-6.932
23605880	2360	5880	30/03/2007	89	10:44:38	-27 48 38.96119	135 35 48.69263	85.404	558787.461	6923610.634	77.934	601307	3991.035	0.062	0.118	-0.042	3990.993	-3.893	979134.258	-22.442	24.05	-8.721	-7.113
23605960	2360	5960	30/03/2007	89	10:37:00	-27 48 39.41651	135 36 17.61169	87.394	559578.624	6923592.752	79.899	601307	3990.46	0.056	0.118	-0.041	3990.419	-3.319	979133.684	-23.026	24.657	-8.941	-7.309
23606040	2360	6040	30/03/2007	89	10:31:47	-27 48 39.02373	135 36 47.17712	94.455	560387.601	6923600.827	86.934	601307	3988.08	0.051	0.117	-0.04	3988.04	-0.94	979131.305	-25.396	26.828	-9.728	-8.297
23606120	2360	6120	30/03/2007	89	10:25:20	-27 48 38.55759	135 37 16.40752	95.596	561187.425	6923611.151	88.05	601307	3987.3	0.049	0.116	-0.038	3987.262	-0.162	979130.527	-26.165	27.172	-9.853	-8.845
23606200	2360	6200	30/03/2007	89	10:19:16	-27 48 38.47848	135 37 45.77955	99.979	561991.065	6923609.493	92.408	601307	3986.345	0.082	0.115	-0.037	3986.308	0.792	979129.573	-27.117	28.517	-10.34	-8.94
23606280	2360	6280	30/03/2007	89	10:11:46	-27 48 38.80388	135 38 15.18814	102.908	562795.642	6923595.33	95.312	601307	3986.8	0.059	0.113	-0.036	3986.764	0.336	979130.029	-26.668	29.413	-10.665	-7.92
23606360	2360	6360	30/03/2007	89	10:00:29	-27 48 38.15122	135 38 44.35089	111.664	563593.651	6923611.244	104.044	601307	3986.755	0.073	0.11	-0.033	3986.722	0.378	979129.987	-26.696	32.108	-11.642	-6.231
24404760	2440	4760	26/03/2007	85	11:02:03	-27 48 15.75706	135 28 59.55896	92.353	547596.351	6924373.866	85.262	403244	3539.8	0.071	0.03	0.017	3539.817	2.086	979120.355	-35.865	26.312	-9.541	-19.094
24404840	2440	4840	26/03/2007	85	11:05:56	-27 48 15.25009	135 29 28.56141	94.211	548389.965	6924386.318	87.091	403244	3541.445	0.043	0.028	0.017	3541.462	0.441	979122	-34.209	26.876	-9.745	-17.078
24404920	2440	4920	26/03/2007	85	11:11:25	-27 48 15.17318	135 29 57.45685	89.858	549180.6	6924385.497	82.711	403244	3545.154	0.038	0.026	0.017	3545.171	-3.268	979125.709	-30.499	25.525	-9.255	-14.229
24405000	2440	5000	26/03/2007	85	11:15:33	-27 48 14.04339	135 30 25.66587	92.633	549952.588	6924417.099	85.457	403244	3547.049	0.099	0.024	0.018	3547.067	-5.164	979127.605	-28.579	26.372	-9.563	-11.77
24405080	2440	5080	26/03/2007	85	14:11:56	-27 48 14.18966	135 30 57.00669	94.434	550810.108	6924409.028	87.227	403244	3549.036	0.052	-0.039	0.03	3549.066	-7.163	979129.604	-26.583	26.918	-9.761	-9.426
24405160	2440	5160	26/03/2007	85	14:06:58	-27 48 14.03503	135 31 26.69419	93.62	551622.429	6924410.347	86.383	403244	3551.209	0.041	-0.038	0.029	3551.238	-9.335	979131.776	-24.408	26.658	-9.666	-7.417
24405160	2440	5160	31/03/2007	90	15:14:59	-27 48 14.03257	135 31 26.68780	93.636	551622.255	6924410.423	86.399	403244	3551.508	0.04	-0.018	-0.019	3551.489	-1.431	979131.796	-24.388	26.663	-9.668	-7.393
24405240	2440	5240	26/03/2007	85	14:02:42	-27 48 14.06489	135 31 54.91785	94.051	552394.674	6924406.109	86.786	403244	3552.611	0.05	-0.037	0.029	3552.64	-10.737	979133.178	-23.007	26.782	-9.711	-5.936
24405320	2440	5320	26/03/2007	85	13:58:21	-27 48 13.88643	135 32 24.25492	93.829	553197.412	6924408.097	86.537	403244	3553.479	0.035	-0.036	0.029	3553.508	-11.605	979134.046	-22.135	26.705	-9.683	-5.113
24405400	2440	5400	26/03/2007	85	13:54:17	-27 48 14.16202	135 32 52.86565	93.914	553980.216	6924396.15	86.595	403244	3553.892	0.042	-0.035	0.029	3553.921	-12.018	979134.459	-21.728	26.723	-9.69	-4.695
24405480	2440	5480	26/03/2007	85	13:49:21	-27 48 13.69145	135 33 22.82460	93.169	554800.013	6924406.944	85.823	403244	3553.965	0.054	-0.033	0.028	3553.993	-12.09	979134.531	-21.646	26.485	-9.604	-4.765
24405560	2440	5560	26/03/2007	85	13:44:41	-27 48 13.62873	135 33 51.41616	92.509	555582.34	6924405.306	85.136	403244	3553.634	0.048	-0.032	0.028	3553.662	-11.759	979134.2	-21.976	26.273	-9.527	-5.229
24405640	2440	5640	26/03/2007	85	13:40:34	-27 48 13.80391	135 34 20.70652	87.022	556383.754	6924396.207	79.622	403244	3554.258	0.04	-0.031	0.028	3554.286	-12.383	979134.824	-21.355	24.571	-8.91	-5.694
24405720	2440	5720	26/03/2007	85	13:33:49	-27 48 12.85266	135 34 50.50229	84.437	557199.162	6924421.651	77.01	403244	3554.552	0.051	-0.029	0.027	3554.579	-12.676	979135.117	-21.043	23.765	-8.617	-5.895
24405800	2440	5800	26/03/2007	85	12:57:55	-27 48 13.10328	135 35 20.05843	85.155	558007.839	6924410.089	77.702	403244	3553.942	0.045	-0.018	0.025	3553.967	-12.064	979134.505	-21.66	23.979	-8.695	-6.376
24405880	2440	5880	26/03/2007	85	12:46:26	-27 48 11.67199	135 35 48.61192	85.923	558789.334	6924450.36	78.444	403244	3553.712	0.045	-0.013	0.024	3553.736	-11.833	979134.274	-21.861	24.208	-8.778	-6.431
24405960	2440	5960	27/03/2007	86	14:56:25	-27 48 13.20566	135 36 17.96244	86.786	559592.194	6924399.239	79.282	601307	3990.25	0.082	-0.048	-0.069	3990.181	-11.276	979133.717	-22.45	24.466	-8.872	-6.855
24406040	2440	6040	27/03/2007	86	15:03:40	-27 48 13.31638	135 36 47.18520	87.896	560391.771	6924391.867	80.368	601307	3989.15	0.06	-0.05	-0.07	3989.08	-10.175	979132.616	-23.553	24.802	-8.993	-7.745
24406040	2440	6040	30/03/2007	89	7:57:38	-27 48 13.32371	135 36 47.19688	87.93	560392.089	6924391.64	80.402	601307	3989.355	0.043	0.043	-0.008	3989.347	-2.247	979132.612	-23.557	24.812	-8.997	-7.742
24406120	2440	6120	27/03/2007	86	15:08:50	-27 48 12.92307	135 37 16.92276	91.934	561205.513	6924399.88	84.38	601307	3987.425	0.07	-0.051	-0.071	3987.354	-8.449	979130.89	-25.271	26.04	-9.442	-8.674
24406120	2440	6120	30/03/2007	89	14:52:32	-27 48 12.92886	135 37 16.92544	92.021	561205.585	6924399.702	84.467	601307	3987.695	0.084	-0.015	-0.092	3987.603	-0.503	979130.868	-25.293	26.067	-9.452	-8.679
24406200	2440	6200	30/03/2007	89	9:34:59	-27 48 13.11771	135 37 45.71648	94.45	561993.339	6924389.88	86.872	601307	3986.835	0.051	0.101	-0.028	3986.807	0.293	979130.072	-26.093	26.809	-9.721	-9.006
24406280	2440	6280	30/03/2007	89	9:43:47	-27 48 12.46110	135 38 14.81233	105.318	562789.567	6924405.979	97.716	601307	3985.37	0.06	0.105	-0.03	3985.34	1.76	979128.605	-27.547	30.155	-10.934	-8.326
24406360	2440	6360	30/03/2007	89	8:58:28	-27 48 12.23699	135 38 43.83858	112.451	563583.825	6924408.728	104.827	601307	3985.3	0.071	0.083	-0.021	3985.279	1.821	979128.544	-27.603	32.35	-11.73	-6.984
25204760	2520	4760	26/03/2007	85	10:57:40	-27 47 47.95237	135 28 59.58947	95.33	547600.551	6925229.43	88.228	403244	3538.284	0.074	0.032	0.016	3538.3	3.603	979118.838	-36.806	27.227	-9.873	-19.452
25204840	2520	4840	26/03/2007	85	10:52:16	-27 47 48.98427	135 29 30.56395	89.295	548447.994	6925194.315	82.164	403244	3542.464	0.053	0.034	0.016	3542.48	-0.577	979123.018	-32.648	25.356	-9.194	-16.486
25204920	2520	4920	26/03/2007	85	10:47:53	-27 47 48.61149	135 29 58.07005	95.053	549200.701	6925202.749	87.894	403244	3544.218	0.044	0.036	0.016	3544.234	-2.331	979124.772	-30.886	27.124	-9.835	-13.597
25205000	2520	5000	26/03/2007	85	10:40:35	-27 47 47.94701	135 30 26.95828	94.672	549991.268	6925219.956	87.484	403244	3547.054	0.055	0.039	0.015	3547.069	-5.166	979127.607	-28.037	26.998	-9.789	-10.829
25205080	2520	5080	26/03/2007	85	11:27:18	-27 47 48.48212	135 30 56.62572	95.322	550803.004	6925200.11	88.106	403244	3549.322	0.037	0.019	0.018	3549.34	-7.437	979129.878	-25.777	27.19	-9.859	-8.447
25205160	2520	5160	26/03/2007	85	11:35:21	-27 47 48.76924	135 31 25.49350	95.554	551592.891	6925187.933	88.309	403244	3551.108	0.053	0.015	0.019	3551.127	-9.224	979131.665	-23.996	27.252	-9.882	-6.626
25205240	2520	5240	26/03/2007	85	11:39:24	-27 47 48.47841	135 31 55.37819	96.241	552410.68	6925193.369	88.966	403244	3552.168	0.038	0.014	0.019	3552.187	-10.284	979132.725	-22.93	27.455	-9.955	-5.431
25205240	2520	5240	27/03/2007	86	14:59:59	-27 47 48.48264	135 31 55.40028	96.235	552411.284	6925193.236	88.961	403244	3552.238	0.106	-0.049	-0.054	3552.184	-10.302	979132.743	-22.912	27.453	-9.955	-5.414
25205240	2520	5240	31/03/2007	90	8:05:36	-27 47 48.47689	135 31 55.40164	96.284	552411.322	6925193.413	89.009	403244	3552.454	0.024	0.017	-0.002	3552.452	-2.394	979132.759	-22.896	27.468	-9.96	-5.388
25205320	2520	5320	26/03/2007	85	11:43:48	-27 47 48.31029	135 32 23.65280	96.487	553184.396	6925195.167	89.186	403244	3552.692	0.073	0.012	0.019	3552.711	-10.808	979133.249	-22.403	27.523	-9.98	-4.86
25205400	2520	5400	26/03/2007	85	11:47:32	-27 47 48.29249	135 32 53.08004	96.312	553989.634	6925192.149	88.984	403244	3552.972	0.084	0.01	0.02	3552.992	-11.089	979133.53	-22.121	27.46	-9.957	-4.618
25205480	2520	5480	26/03/2007	85	11:51:47	-27 47 47.80507	135 33 23.24784	98.422	554815.201	6925203.437	91.065	403244	3552.218	0.074	0.008	0.02	3552.238	-10.335	979132.776	-22.865	28.103	-10.19	-4.953
25205560	2520	5560	26/03/2007	85	11:56:39	-27 47 47.62650	135 33 52.26865	93.455	555609.342	6925205.309	86.072	403244	3552.962	0.079	0.006	0.02	3552.982	-11.079	979133.52	-22.118	26.562	-9.631	-5.187
25205640	2520	5640	26/03/2007	85	12:03:47	-27 47 48.33934	135 34 20.73082	93.338	556388.07	6925179.77	85.929	403244	3552.683	0.032	0.003	0.021	3552.704	-10.801	979133.242	-22.41	26.518	-9.615	-5.508
25205720	2520	5720	26/03/2007	85	12:08:29	-27 47 47.73179	135 34 50.97380	86.249	557215.718	6925194.581	78.814	403244	3554.266	0.084	0.001	0.021	3554.287	-12.384	979134.825	-20.815	24.322	-8.819	-5.312
25205800	2520	5800	26/03/2007	85	12:13:57	-27 47 47.83313	135 35 18.37860	86.304	557965.601	6925187.894	78.845	403244	3553.925	0.051	-0.001	0.022	3553.947	-12.044	979134.485	-21.157	24.332	-8.823	-5.648
25205880	2520	5880	26/03/2007	85	12:20:16	-27 47 48.42638	135 35 48.90279	91.196	558800.768	6925165.61	83.71	403244	3552.483	0.046	-0.003	0.022	3552.505	-10.602	979133.043	-22.611	25.833	-9.367	-6.145
25205960	2520	5960	26/03/2007	85	12:24:34	-27 47 47.58094	135 36 18.32762	93.749	559606.07	6925187.686	86.237	403244	3551.288	0.037	-0.005	0.022	3551.31	-9.407	979131.848	-23.789	26.613	-9.65	-6.826
25206040	2520	6040	26/03/2007	85	12:28:45	-27 47 47.17138	135 36 47.42073	90.032	560402.231	6925196.342	82.497	403244	3551.218	0.051	-0.007	0.023	3551.241	-9.338	979131.779	-23.849	25.459	-9.231	-7.622
25206120	2520	6120	30/03/2007	89	8:14:05	-27 47 46.44713	135 37 16.22013	89.013	561190.407	6925214.669	81.453	601307	3988.105	0.05	0.055	-0.012	3988.093	-0.993	979131.358	-24.255	25.136	-9.115	-8.234
25206120	2520	6120	31/03/2007	90	7:44:23	-27 47 46.42309	135 37 16.23594	89.038	561190.843	6925215.407	81.478	601307	3988.21	0.036	0.001	-0.008	3988.202	-0.982	979131.347	-24.266	25.144	-9.117	-8.239
25206200	2520	6200	30/03/2007	89	8:21:18	-27 47 46.65976	135 37 45.60055	97.251	561994.337	6925204.035	89.667	601307	3986.235	0.051	0.059	-0.013	3986.222	0.878	979129.487	-26.131	27.671	-10.034	-8.493
25206280	2520	6280	30/03/2007	89	8:23:33	-27 47 47.39342	135 38 14.24455	100.369	562778.033	6925177.419	92.763	601307	3986.37	0.072	0.063	-0.014	3986.356	0.744	979129.621	-26.012	28.627	-10.38	-7.765
25206360	2520	6360	30/03/2007	89	8:42:42	-27 47 46.73034	135 38 43.78709	105.796	563586.54	6925193.602	98.167	601307	3986.07	0.072	0.075	-0.018	3986.052	1.048	979129.317	-26.302	30.294	-10.985	-6.993
26004760	2600	4760	26/03/2007	85	9:47:50	-27 47 23.07157	135 28 59.44824	94.584	547599.697	6925995.041	87.472	403244	3538.147	0.06	0.061	0.011	3538.158	3.745	979118.696	-36.434	26.994	-9.788	-19.228
26004840	2600	4840	26/03/2007	85	9:52:54	-27 47 22.07440	135 29 28.34365	90.306	548390.549	6926022.59	83.166	403244	3542.059	0.048	0.059	0.012	3542.071	-0.168	979122.609	-32.5	25.665	-9.306	-16.141
26004920	2600	4920	26/03/2007	85	10:32:16	-27 47 22.64277	135 29 58.10023	95.553	549204.775	6926001.819	88.384	403244	3544.032	0.098	0.043	0.014	3544.046	-2.143	979124.584	-30.537	27.275	-9.89	-13.152
26005000	2600	5000	26/03/2007	85	10:36:50	-27 47 22.87474	135 30 27.29086	95.965	550003.555	6925991.408	88.768	403244	3546.813	0.05	0.041	0.015	3546.828	-4.925	979127.366	-27.76	27.394	-9.933	-10.299
26005080	2600	5080	26/03/2007	85	9:18:55	-27 47 21.87845	135 30 55.86420	97.244	550785.601	6926018.81	90.018	403244	3549.01	0.086	0.071	0.009	3549.019	-7.116	979129.557	-25.548	27.78	-10.073	-7.841
26005160	2600	5160	26/03/2007	85	9:14:49	-27 47 22.50081	135 31 25.12431	97.071	551586.233	6925996.274	89.816	403244	3550.841	0.05	0.072	0.009	3550.85	-8.947	979131.388	-23.73	27.717	-10.05	-6.063
26005240	2600	5240	26/03/2007	85	8:59:13	-27 47 22.55041	135 31 54.98527	99.029	552403.382	6925991.238	91.745	403244	3551.178	0.079	0.077	0.008	3551.186	-9.283	979131.724	-23.395	28.313	-10.266	-5.349
26005320	2600	5320	26/03/2007	85	8:54:57	-27 47 22.18073	135 32 24.76263	100.356	553218.3	6925999.059	93.044	403244	3551.107	0.055	0.079	0.008	3551.115	-9.212	979131.653	-23.458	28.713	-10.412	-5.157
26005400	2600	5400	26/03/2007	85	8:50:18	-27 47 21.67191	135 32 53.22511	99.913	553997.257	6926011.266	92.575	403244	3551.485	0.039	0.08	0.007	3551.492	-9.589	979132.03	-23.071	28.569	-10.359	-4.861
26005480	2600	5480	26/03/2007	85	8:45:12	-27 47 21.80506	135 33 23.07052	100.159	554813.972	6926003.499	92.794	403244	3551.4	0.081	0.081	0.007	3551.407	-9.504	979131.945	-23.159	28.636	-10.384	-4.906
26005560	2600	5560	26/03/2007	85	8:41:17	-27 47 21.86286	135 33 51.37075	96.674	555588.413	6925998.189	89.283	403244	3552.006	0.047	0.083	0.007	3552.013	-10.11	979132.551	-22.554	27.553	-9.991	-4.992
26005640	2600	5640	26/03/2007	85	8:37:41	-27 47 21.83627	135 34 20.00364	94.808	556371.97	6925995.384	87.392	403244	3552.365	0.042	0.083	0.006	3552.371	-10.468	979132.909	-22.195	26.969	-9.779	-5.005
26005720	2600	5720	26/03/2007	85	8:33:13	-27 47 21.34607	135 34 50.44545	93.457	557205.097	6926006.56	86.014	403244	3552.892	0.064	0.085	0.006	3552.898	-10.995	979133.436	-21.658	26.544	-9.625	-4.739
26005800	2600	5800	26/03/2007	85	8:27:40	-27 47 21.66374	135 35 19.77555	87.576	558007.685	6925992.966	80.107	403244	3553.888	0.039	0.086	0.006	3553.894	-11.991	979134.432	-20.669	24.721	-8.964	-4.911
26005880	2600	5880	26/03/2007	85	8:23:20	-27 47 21.42979	135 35 48.60746	91.177	558796.722	6925996.358	83.683	403244	3552.452	0.029	0.087	0.005	3552.457	-10.554	979132.995	-22.101	25.825	-9.364	-5.64
26005960	2600	5960	26/03/2007	85	8:19:05	-27 47 21.18422	135 36 16.73553	97.077	559566.501	6926000.152	89.56	403244	3550.407	0.043	0.088	0.005	3550.412	-8.509	979130.95	-24.141	27.638	-10.022	-6.524
26006040	2600	6040	26/03/2007	85	8:14:48	-27 47 21.39700	135 36 47.01265	93.109	560395.021	6925989.5	85.568	403244	3550.227	0.044	0.089	0.005	3550.232	-8.329	979130.77	-24.325	26.406	-9.575	-7.494
26006120	2600	6120	26/03/2007	85	8:09:18	-27 47 20.38792	135 37 15.34945	89.223	561170.634	6926016.657	81.658	403244	3550.528	0.051	0.09	0.004	3550.532	-8.629	979131.07	-24.004	25.2	-9.138	-7.942
26006200	2600	6200	31/03/2007	90	13:25:40	-27 47 20.74310	135 37 45.29211	96.947	561989.981	6926001.56	89.358	601307	3986.46	0.04	0.067	-0.121	3986.339	0.881	979129.484	-25.597	27.576	-9.999	-8.021
26006280	2600	6280	31/03/2007	90	13:34:05	-27 47 20.68707	135 38 14.66531	103.013	562793.81	6925999.141	95.401	601307	3985.91	0.047	0.062	-0.124	3985.786	1.434	979128.931	-26.149	29.441	-10.675	-7.384
26006360	2600	6360	31/03/2007	90	13:41:28	-27 47 20.41619	135 38 43.85551	101.626	563592.666	6926003.307	93.992	601307	3986.71	0.049	0.056	-0.126	3986.584	0.636	979129.729	-25.346	29.006	-10.518	-6.858
26804760	2680	4760	26/03/2007	85	9:39:44	-27 47 46 56.02898	135 28 59.34642	93.475	547600.182	6926827.167	86.353	403244	3538.35	0.064	0.064	0.011	3538.361	3.542	979118.899	-35.671	26.649	-9.663	-18.686

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
26804840	2680	4840	26/03/2007	85	9:34:17	-27 46 56.70864	135 29 29.09808	96.242	548414.315	6926803.026	89.091	403244	3540.637	0.057	0.066	0.01	3540.647	1.256	979121.185	-33.399	27.493	-9.969	-15.875
26804920	2680	4920	26/03/2007	85	9:30:37	-27 46 56.51379	135 29 57.78209	93.389	549199.336	6926805.858	86.211	403244	3543.793	0.062	0.067	0.01	3543.803	-1.9	979124.341	-30.239	26.605	-9.647	-13.282
26805000	2680	5000	26/03/2007	85	9:26:47	-27 46 57.29857	135 30 28.04801	96.835	550027.526	6926778.316	89.627	403244	3545.555	0.064	0.068	0.01	3545.565	-3.662	979126.103	-28.494	27.659	-10.029	-10.864
26805080	2680	5080	24/03/2007	83	15:29:43	-27 46 56.70369	135 30 56.70605	99.219	550811.889	6926793.356	91.982	403244	3547.326	0.111	-0.017	-0.041	3547.285	-5.543	979127.984	-26.6	28.386	-10.293	-8.507
26805160	2680	5160	24/03/2007	83	15:34:37	-27 46 56.61199	135 31 25.77243	103.891	551607.365	6926792.814	96.627	403244	3547.84	0.06	-0.016	-0.041	3547.799	-6.057	979128.498	-26.084	29.819	-10.813	-7.078
26805240	2680	5240	24/03/2007	83	15:40:05	-27 46 56.36017	135 31 53.90162	108.283	552377.214	6926797.257	100.99	403244	3547.59	0.082	-0.016	-0.042	3547.548	-5.806	979128.247	-26.33	31.166	-11.301	-6.465
26805320	2680	5320	24/03/2007	83	15:45:04	-27 46 56.62588	135 32 23.60028	107.342	553189.946	6926785.539	100.022	403244	3548.565	0.045	-0.016	-0.043	3548.522	-6.78	979129.221	-25.362	30.867	-11.192	-5.687
26805400	2680	5400	24/03/2007	83	15:49:48	-27 46 56.04255	135 32 52.56997	101.941	553982.845	6926799.98	94.595	403244	3550.385	0.067	-0.015	-0.043	3550.342	-8.6	979131.041	-23.53	29.192	-10.585	-4.923
26805400	2680	5400	26/03/2007	85	15:29:20	-27 46 56.04035	135 32 52.59871	101.922	553983.632	6926800.044	94.576	403244	3550.449	0.063	-0.049	0.035	3550.484	-8.581	979131.022	-23.549	29.186	-10.583	-4.945
26805480	2680	5480	24/03/2007	83	15:54:48	-27 46 55.95800	135 33 22.69240	100.867	554807.225	6926798.879	93.493	403244	3551.026	0.066	-0.015	-0.044	3550.982	-9.24	979131.681	-22.888	28.852	-10.462	-4.498
26805560	2680	5560	24/03/2007	83	16:00:10	-27 46 55.90583	135 33 50.82698	99.348	555577.199	6926796.975	91.948	403244	3551.386	0.09	-0.015	-0.045	3551.341	-9.599	979132.04	-22.528	28.375	-10.289	-4.442
26805640	2680	5640	24/03/2007	83	16:05:06	-27 46 55.27363	135 34 20.62881	92.361	556392.885	6926812.658	84.935	403244	3553.115	0.049	-0.015	-0.046	3553.069	-11.327	979133.768	-20.787	26.211	-9.504	-4.08
26805720	2680	5720	24/03/2007	83	16:09:32	-27 46 56.03416	135 34 49.26402	89.632	557176.444	6926785.581	82.182	403244	3553.693	0.06	-0.014	-0.046	3553.647	-11.905	979134.346	-20.224	25.361	-9.196	-4.059
26805800	2680	5800	24/03/2007	83	16:20:40	-27 46 55.31963	135 35 18.92503	91.468	557988.292	6926803.708	83.993	403244	3552.78	0.082	-0.014	-0.048	3552.732	-10.99	979133.431	-21.125	25.92	-9.399	-4.603
26805800	2680	5800	26/03/2007	85	7:37:23	-27 46 55.30677	135 35 18.94518	91.451	557988.846	6926804.101	83.975	403244	3552.916	0.043	0.095	0.002	3552.918	-11.015	979133.456	-21.099	25.915	-9.397	-4.581
26805880	2680	5880	26/03/2007	85	7:42:18	-27 46 55.34126	135 35 48.72309	95.596	558803.785	6926799.11	88.094	403244	3551.263	0.043	0.094	0.003	3551.266	-9.363	979131.804	-22.752	27.186	-9.858	-5.424
26805960	2680	5960	26/03/2007	85	7:46:44	-27 46 54.94254	135 36 18.63799	97.807	559622.539	6926807.376	90.282	403244	3549.849	0.031	0.094	0.003	3549.852	-7.949	979130.39	-24.158	27.861	-10.103	-6.399
26806040	2680	6040	26/03/2007	85	7:51:20	-27 46 55.06158	135 36 46.21851	93.946	560377.33	6926799.973	86.399	403244	3549.938	0.041	0.093	0.003	3549.941	-8.038	979130.479	-24.071	26.663	-9.668	-7.077
26806120	2680	6120	26/03/2007	85	7:56:34	-27 46 54.62191	135 37 15.43068	90.913	561176.862	6926809.49	83.342	403244	3550.084	0.05	0.092	0.004	3550.088	-8.185	979130.626	-23.915	25.719	-9.326	-7.522
26806200	2680	6200	31/03/2007	90	13:17:43	-27 46 54.79977	135 37 45.51628	95.069	562000.203	6926799.829	87.474	601307	3986.72	0.092	0.073	-0.118	3986.602	0.618	979129.747	-24.798	26.994	-9.788	-7.592
26806280	2680	6280	31/03/2007	90	13:12:18	-27 46 54.58811	135 38 14.30582	99.965	562788.136	6926802.283	92.348	601307	3986.3	0.043	0.077	-0.117	3986.183	1.037	979129.328	-25.212	28.499	-10.334	-7.048
26806360	2680	6360	31/03/2007	90	13:04:35	-27 46 53.95884	135 38 43.78963	106.623	563595.139	6926817.436	98.985	601307	3985.175	0.04	0.082	-0.114	3985.061	2.159	979128.206	-26.321	30.547	-11.076	-6.851
27206080	2720	6080	31/03/2007	90	14:05:39	-27 46 41.70100	135 37 01.75096	91.681	560804.478	6927208.963	84.118	601307	3987.475	0.058	0.037	-0.134	3987.341	-0.121	979130.486	-23.788	25.959	-9.413	-7.242
27206160	2720	6160	31/03/2007	90	14:11:47	-27 46 41.56234	135 37 30.61264	91.334	561594.399	6927209.239	83.748	601307	3987.37	0.058	0.037	-0.136	3987.234	-0.014	979130.379	-23.892	25.845	-9.371	-7.419
27206240	2720	6240	31/03/2007	90	11:37:48	-27 46 41.76064	135 37 59.83601	97.121	562394.166	6927199.043	89.512	601307	3986.4	0.063	0.114	-0.085	3986.315	0.905	979129.46	-24.815	27.623	-10.016	-7.208
27206320	2720	6320	31/03/2007	90	11:45:46	-27 46 41.68239	135 38 29.33789	99.954	563201.6	6927197.265	92.325	601307	3986.255	0.058	0.113	-0.088	3986.167	1.053	979129.312	-24.962	28.491	-10.331	-6.801
27206400	2720	6400	31/03/2007	90	11:50:43	-27 46 41.45508	135 38 58.81028	101.288	564008.253	6927200.023	93.637	601307	3986.28	0.088	0.112	-0.09	3986.19	1.03	979129.335	-24.934	28.896	-10.478	-6.515
27206480	2720	6480	31/03/2007	90	11:57:12	-27 46 41.23022	135 39 27.69230	100.067	564798.749	6927202.739	92.396	601307	3986.545	0.095	0.111	-0.092	3986.453	0.767	979129.598	-24.666	28.513	-10.339	-6.492
27206560	2720	6560	31/03/2007	90	12:17:57	-27 46 40.91657	135 39 56.81668	108.41	565595.894	6927208.1	100.718	601307	3983.66	0.043	0.104	-0.099	3983.561	3.659	979126.706	-27.552	31.082	-11.27	-7.74
27206640	2720	6640	31/03/2007	90	12:25:55	-27 46 40.95596	135 40 26.45657	108.978	566407.091	6927202.468	101.267	601307	3982.63	0.052	0.101	-0.101	3982.529	4.691	979125.674	-28.585	31.251	-11.332	-8.665
27206640	2720	6640	1/04/2007	91	7:44:57	-27 46 40.95759	135 40 26.45695	108.955	566407.101	6927202.417	101.244	601307	3982.735	0.06	-0.029	-0.003	3982.732	4.65	979125.715	-28.544	31.244	-11.329	-8.629
27206720	2720	6720	31/03/2007	90	12:31:01	-27 46 40.39852	135 40 55.73365	109.352	567208.46	6927215.201	101.622	601307	3983.33	0.059	0.098	-0.103	3983.227	3.993	979126.372	-27.875	31.361	-11.371	-7.886
27206720	2720	6720	1/04/2007	91	7:54:23	-27 46 40.40359	135 40 55.72503	109.36	567208.224	6927215.046	101.631	601307	3983.435	0.066	-0.023	-0.004	3983.431	3.951	979126.414	-27.833	31.363	-11.372	-7.842
27206800	2720	6800	31/03/2007	90	12:42:11	-27 46 40.70562	135 41 24.68341	113.409	568000.726	6927201.329	105.661	601307	3981.92	0.065	0.094	-0.107	3981.813	5.407	979124.958	-29.295	32.607	-11.823	-8.512
27604760	2760	4760	24/03/2007	83	12:27:33	-27 46 30.74560	135 28 58.86736	93.678	547590.129	6927605.201	86.547	403244	3537.47	0.057	-0.034	-0.015	3537.455	4.287	979118.154	-35.893	26.708	-9.685	-18.87
27604840	2760	4840	24/03/2007	83	12:22:42	-27 46 29.80149	135 29 28.67045	94.602	548405.921	6927631.02	87.441	403244	3539.909	0.11	-0.034	-0.014	3539.895	1.847	979120.594	-33.434	26.984	-9.785	-16.234
27604920	2760	4920	24/03/2007	83	12:18:12	-27 46 30.43429	135 29 57.40030	96.509	549192.147	6927608.381	89.321	403244	3541.854	0.078	-0.034	-0.014	3541.84	-0.098	979122.539	-31.502	27.564	-9.995	-13.932
27605000	2760	5000	24/03/2007	83	12:12:37	-27 46 30.61036	135 30 27.57715	97.874	550018.032	6927599.581	90.656	403244	3543.885	0.09	-0.034	-0.013	3543.872	-2.13	979124.571	-29.474	27.976	-10.144	-11.642
27605080	2760	5080	24/03/2007	83	12:07:20	-27 46 30.78945	135 30 56.59888	107.509	550812.302	6927590.765	100.263	403244	3544.141	0.079	-0.034	-0.012	3544.129	-2.387	979124.828	-29.22	30.941	-11.219	-9.498
27605160	2760	5160	24/03/2007	83	15:20:51	-27 46 30.43080	135 31 25.62470	106.718	551606.754	6927598.442	99.444	403244	3545.98	0.08	-0.018	-0.039	3545.941	-4.199	979126.64	-27.401	30.688	-11.128	-7.84
27605240	2760	5240	24/03/2007	83	15:15:30	-27 46 29.95664	135 31 54.74043	103.002	552403.684	6927609.611	95.699	403244	3547.782	0.054	-0.018	-0.039	3547.743	-6.001	979128.442	-25.589	29.533	-10.709	-6.765
27605320	2760	5320	24/03/2007	83	15:10:12	-27 46 29.63262	135 32 23.67462	101.972	553195.628	6927616.13	94.642	403244	3549.1	0.086	-0.019	-0.038	3549.062	-7.32	979129.761	-24.263	29.207	-10.59	-5.647
27605400	2760	5400	24/03/2007	83	15:03:59	-27 46 30.12044	135 32 53.84497	97.774	554021.296	6927597.465	90.417	403244	3550.913	0.057	-0.019	-0.037	3550.876	-9.134	979131.575	-22.459	27.903	-10.118	-4.674
27605480	2760	5480	24/03/2007	83	14:49:15	-27 46 28.48904	135 33 22.70384	93.251	554811.362	6927644.117	85.867	403244	3552.638	0.048	-0.021	-0.035	3552.603	-10.861	979133.302	-20.699	26.499	-9.608	-3.809
27605560	2760	5560	24/03/2007	83	14:43:34	-27 46 30.17672	135 33 51.63638	92.241	555602.984	6927588.577	84.832	403244	3553.258	0.05	-0.022	-0.034	3553.224	-11.482	979133.923	-20.113	26.179	-9.493	-3.426
27605640	2760	5640	24/03/2007	83	14:38:18	-27 46 29.77746	135 34 20.83063	97.809	556402.061	6927597.168	90.374	403244	3552.093	0.075	-0.022	-0.033	3552.06	-10.318	979132.759	-21.268	27.889	-10.113	-3.492
27605720	2760	5720	24/03/2007	83	14:33:52	-27 46 29.76945	135 34 49.05200	91.495	557174.457	6927593.794	84.037	403244	3553.229	0.05	-0.023	-0.033	3553.196	-11.454	979133.895	-20.132	25.934	-9.404	-3.602
27605800	2760	5800	24/03/2007	83	14:27:58	-27 46 29.38960	135 35 19.09321	96.895	557996.715	6927601.574	89.412	403244	3551.315	0.043	-0.024	-0.032	3551.283	-9.541	979131.982	-22.037	27.593	-10.005	-4.45
27605880	2760	5880	24/03/2007	83	14:22:33	-27 46 29.10144	135 35 48.61885	98.764	558804.852	6927606.544	91.255	403244	3550.033	0.072	-0.025	-0.031	3550.002	-8.26	979130.701	-23.312	28.161	-10.211	-5.362
27605960	2760	5960	24/03/2007	83	14:18:00	-27 46 29.28746	135 36 17.78742	99.539	559603.146	6927596.919	92.008	403244	3548.961	0.067	-0.025	-0.03	3548.931	-7.189	979129.63	-24.387	28.394	-10.296	-6.289
27606040	2760	6040	24/03/2007	83	14:11:55	-27 46 28.61566	135 36 46.65220	94.208	560393.256	6927613.678	86.653	403244	3549.391	0.061	-0.026	-0.03	3549.361	-7.619	979130.06	-23.943	26.741	-9.696	-6.899
27606120	2760	6120	31/03/2007	90	9:15:11	-27 46 28.89678	135 37 15.89036	92.679	561193.442	6927601.012	85.102	601307	3986.81	0.044	0.068	-0.038	3986.772	0.448	979129.917	-24.092	26.262	-9.523	-7.353
27606200	2760	6200	31/03/2007	90	9:22:53	-27 46 26.31087	135 37 44.21644	91.622	561969.115	6927676.641	84.022	601307	3987.14	0.06	0.074	-0.041	3987.099	0.121	979130.244	-23.712	25.929	-9.402	-7.184
27606280	2760	6280	26/03/2007	85	13:31:17	-27 46 28.41700	135 38 14.69647	93.558	562803.003	6927607.538	85.936	601307	3986.74	0.052	-0.028	-0.032	3986.708	-7.868	979130.309	-23.69	26.52	-9.616	-6.787
27606360	2760	6360	26/03/2007	85	13:36:57	-27 46 28.61345	135 38 43.34904	96.552	563587.176	6927597.402	88.91	601307	3986.51	0.072	-0.03	-0.032	3986.478	-7.638	979130.079	-23.924	27.438	-9.949	-6.436
28006080	2800	6080	31/03/2007	90	9:08:33	-27 46 15.94392	135 37 04.22365	93.951	560876.134	6928001.191	86.38	601307	3986.43	0.061	0.064	-0.036	3986.394	0.826	979129.539	-24.202	26.657	-9.666	-7.211
28006160	2800	6160	31/03/2007	90	9:02:51	-27 46 16.10429	135 37 30.66508	92.625	561599.817	6927992.599	85.033	601307	3986.61	0.047	0.06	-0.034	3986.576	0.644	979129.721	-24.024	26.241	-9.515	-7.298
28006240	2800	6240	31/03/2007	90	8:51:40	-27 46 17.19495	135 38 00.84835	91.909	562425.768	6927954.81	84.295	601307	3987.15	0.047	0.052	-0.031	3987.119	0.101	979130.264	-23.503	26.013	-9.433	-6.922
28006320	2800	6320	26/03/2007	85	12:59:57	-27 46 15.45369	135 38 28.96661	95.169	563195.649	6928004.4	87.534	601307	3986.195	0.059	-0.019	-0.029	3986.166	-7.326	979129.767	-23.964	27.013	-9.795	-6.746
28006400	2800	6400	26/03/2007	85	12:54:37	-27 46 15.06714	135 38 57.83848	95.684	563985.945	6928012.147	88.03	601307	3986.59	0.057	-0.016	-0.028	3986.562	-7.722	979130.163	-23.56	27.166	-9.851	-6.244
28006480	2800	6480	26/03/2007	85	12:48:16	-27 46 14.48548	135 39 27.46062	103.337	564796.81	6928025.736	95.662	601307	3984.51	0.05	-0.014	-0.028	3984.482	-5.642	979128.083	-25.628	29.521	-10.705	-6.811
28006560	2800	6560	26/03/2007	85	12:42:52	-27 46 11.92994	135 39 56.53503	107.893	565593.015	6928100.091	100.197	601307	3982.785	0.048	-0.012	-0.027	3982.758	-3.918	979126.359	-27.299	30.921	-11.212	-7.591
28006640	2800	6640	26/03/2007	85	12:38:00	-27 46 13.71873	135 40 25.35972	104.31	566381.664	6928040.751	96.597	601307	3982.17	0.05	-0.01	-0.027	3982.143	-3.303	979125.744	-27.951	29.81	-10.809	-8.951
28006720	2800	6720	26/03/2007	85	12:32:34	-27 46 14.88580	135 40 55.21420	114.641	567198.599	6928000.334	106.91	601307	3979.48	0.061	-0.008	-0.026	3979.454	-0.614	979123.055	-30.664	32.992	-11.963	-9.635
28006800	2800	6800	26/03/2007	85	12:25:14	-27 46 14.88639	135 41 24.18210	121.998	567991.464	6927995.893	114.249	601307	3977.535	0.04	-0.005	-0.026	3977.509	1.331	979121.11	-32.609	35.257	-12.784	-10.137
28404760	2840	4760	24/03/2007	83	11:36:53	-27 46 05.01492	135 28 59.05752	101.071	547598.443	6928396.926	93.929	403244	3534.748	0.075	-0.031	-0.008	3534.74	7.002	979115.439	-38.076	28.986	-10.511	-19.6
28404840	2840	4840	24/03/2007	83	11:41:51	-27 46 05.09051	135 29 28.50105	98.704	548404.322	6928391.408	91.534	403244	3537.81	0.109	-0.031	-0.008	3537.802	3.94	979118.501	-35.016	28.247	-10.243	-17.011
28404920	2840	4920	24/03/2007	83	11:46:28	-27 46 04.37220	135 29 57.71049	100.012	549203.893	6928410.29	92.813	403244	3540.037	0.082	-0.032	-0.009	3540.028	1.714	979120.727	-32.775	28.642	-10.386	-14.519
28405000	2840	5000	24/03/2007	83	11:52:05	-27 46 04.97866	135 30 27.64716	106.33	550023.204	6928388.274	99.103	403244	3541.251	0.093	-0.032	-0.01	3541.241	0.501	979121.94	-31.575	30.583	-11.09	-12.081
28405080	2840	5080	24/03/2007	83	11:57:44	-27 46 04.27161	135 30 55.68815	105.377	550790.796	6928406.838	98.122	403244	3543.57	0.092	-0.033	-0.011	3543.559	-1.817	979124.258	-29.242	30.28	-10.98	-9.941
28405160	2840	5160	24/03/2007	83	13:03:47	-27 46 05.03503	135 31 25.27145	102.003	551600.414	6928379.926	94.719	403244	3545.917	0.056	-0.033	-0.02	3545.897	-4.155	979126.596	-26.92	29.23	-10.599	-8.288
28405240	2840	5240	24/03/2007	83	13:09:16	-27 46 04.60981	135 31 54.82477	99.548	552409.366	6928389.539	92.235	403244	3547.905	0.096	-0.033	-0.021	3547.884	-6.142	979128.583	-24.924	28.464	-10.321	-6.781
28405320	2840	5320	24/03/2007	83	13:15:55	-27 46 03.95265	135 32 24.78350	99.803	553229.449	6928406.186	92.463	403244	3549.062	0.049	-0.032	-0.022	3549.04	-7.298	979129.739	-23.754	28.534	-10.347	-5.567
28405400	2840	5400	24/03/2007	83	13:23:30	-27 46 04.00275	135 32 52.64297	95.194	553991.979	6928401.27	87.829	403244	3550.714	0.055	-0.032	-0.023	3550.691	-8.949	979131.39	-22.104	27.104	-9.828	-4.828
28405480	2840	5480	24/03/2007	83	13:29:44	-27 46 04.41703	135 33 21.54509	95.469	554782.998	6928384.972	88.077	403244	3551.717	0.052	-0.031	-0.024	3551.693	-9.951	979132.392	-21.111	27.181	-9.856	-3.786
28405560	2840	5560	24/03/2007	83	13:35:41	-27 46 03.99776	135 33 51.75088	99.087	555609.815	6928394.107	91.668	403244	3551.489	0.06	-0.03	-0.024	3551.465	-9.723	979132.164	-21.33	28.289	-10.258	-3.299
28405640	2840	5640	24/03/2007	83	13:40:09	-27 46 03.71144	135 34 20.16242	99.056	556387.506	6928399.323	91.612	403244	3551.633	0.075	-0.03	-0.025	3551.608	-9.866	979132.307	-21.181	28.271	-10.251	-3.161
28405720	2840	5720	24/03/2007	83	13:44:47	-27 46 03.51374	135 34 49.56354	95.681	557192.271	6928401.635	88.214	403244	3551.928	0.094	-0.029	-0.026	3551.902	-10.16	979132.601	-20.883	27.223	-9.871	-3.532
28405800	2840	5800	24/03/2007	83	13:50:37	-27 46 04.63748	135 35 19.72431	95.643	558017.635	6928363.133	88.152	403244	3551.051	0.061	-0.029	-0.027	3551.024	-9.282	979131.723	-21.785	27.204	-9.864	-4.445
28405880	2840	5880	24/03/2007	83	13:55:43	-27 46 02.70715	135 35 48.67154	102.561	558810.236	6928418.711	95.045	403244	3548.672	0.069	-0.028	-0.027	3548.645	-6.903	979129.344	-24.124	29.331	-10.636	-5.428
28405960	2840	5960	24/03/2007	83	14:01:58	-27 46 03.42863	135 36 17.20607	97.831	559591.148	6928392.695	90.293	403244	3548.903	0.075	-0.027	-0.028	3548.875	-7.133	979129.574	-23.908	27.864	-10.104	-6.148
28406040	2840	6040	24/03/2007	83	14:06:37	-27 46 03.38580	135 36 46.27146	95.144	560386.705	6928390.074	87.584	403244	3548.82	0.08	-0.027	-0.029	3548.791	-7.049	979129.49	-23.992	27.028	-9.801	-6.764
28406120	2840	6120	31/03/2007	90	8:04:50	-27 46 03.18671	135 37 15.65436	99.646	561190.978	6928392.166	92.064	601307	3984.895	0.04	0.017	-0.015	3984.88	2.34	979128.025	-25.452	28.411	-10.302	-7.343
28406200	2840	6200	31/03/2007	90	8:13:04	-27 46 02.63610	135 37 44.90899	95.233	561991.797	6928405.039	87.628	601307	3985.81	0.024	0.023	-0.018	3985.792	1.428	979128.937	-24.529	27.042	-9.806	-7.293
28406280	2840	6280	31/03/2007	90	8:21:07	-27 46 01.30913	135 38 14.21876	92.867	562794.252	6928441.74	85.241	601307	3986.66	0.042	0.029	-0.021	3986.639	0.581	979129.784	-23.655	26.305	-9.538	-6.888
28406360	2840	6360	31/03/2007	90	8:32:32	-27 46 01.60093	135 38 43.29835	94.023	563590.151	6928428.61	86.377	601307	3986.65	0.086	0.037	-0.024	3986.626	0.594	979129.771	-23.674	26.656	-9.666	-6.683
28406440	2840	6440	26/03/2007	85	12:04:31	-27 46 02.41408	135 39 12.67215	96.501	564394.017	6928399.343	88.835	601307	3985.93	0.066	0.003	-0.024	3985.906	-7.066	979129.507	-23.955	27.414	-9.941	-6.481
28406520	2840	6520	26/03/2007	85	12:10:10	-27 46 02.15066	135 39 42.06766	105.802	565198.653	6928403.146	98.115	601307	3983.12	0.047	0.001	-0.024	3983.096	-4.256	979126.697	-26.759	30.278	-10.979	-7.46

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
28406600	2840	6600	26/03/2007	85	12:15:03	-27 46 02.06076	135 40 10.85673	101.843	565986.663	6928401.647	94.137	601307	3982.685	0.064	-0.001	-0.025	3982.66	-3.82	979126.261	-27.193	29.051	-10.534	-8.676
28806080	2880	6080	27/03/2007	86	13:21:53	-27 45 50.38775	135 37 03.77351	95.497	560867.764	6928787.638	87.921	601307	3985.325	0.068	-0.009	-0.056	3985.269	-6.364	979128.805	-24.408	27.132	-9.838	-7.114
28806160	2880	6160	27/03/2007	86	13:27:49	-27 45 49.67743	135 37 30.36362	99.812	561595.7	6928805.818	92.216	601307	3984.115	0.101	-0.012	-0.057	3984.058	-5.153	979127.594	-25.604	28.458	-10.319	-7.465
28806240	2880	6240	27/03/2007	86	13:34:00	-27 45 49.49684	135 37 59.69056	100.476	562398.468	6928807.269	92.858	601307	3984.005	0.094	-0.015	-0.058	3983.947	-5.042	979127.483	-25.711	28.656	-10.391	-7.446
28806320	2880	6320	27/03/2007	86	13:40:37	-27 45 49.50665	135 38 28.96327	93.815	563199.722	6928802.815	86.177	601307	3985.79	0.101	-0.018	-0.059	3985.731	-6.826	979129.267	-23.928	26.594	-9.643	-6.977
28806400	2880	6400	27/03/2007	86	13:46:10	-27 45 49.64910	135 38 56.83340	94.975	563962.564	6928794.429	87.318	601307	3985.8	0.078	-0.021	-0.059	3985.741	-6.836	979129.277	-23.921	26.946	-9.771	-6.745
28806480	2880	6480	26/03/2007	85	11:49:54	-27 45 49.29777	135 39 27.43204	97.814	564800.172	6928800.791	90.136	601307	3984.67	0.074	0.009	-0.022	3984.648	-5.808	979128.249	-24.941	27.816	-10.086	-7.212
28806560	2880	6560	26/03/2007	85	11:45:21	-27 45 48.96618	135 39 56.39663	99.812	565593.052	6928806.729	92.114	601307	3983.095	0.052	0.011	-0.022	3983.073	-4.233	979126.674	-26.509	28.426	-10.308	-8.391
28806640	2880	6640	26/03/2007	85	11:40:26	-27 45 49.08464	135 40 25.69329	105.982	566394.947	6928798.717	98.267	601307	3980.47	0.042	0.013	-0.021	3980.449	-1.609	979124.05	-29.136	30.325	-10.996	-9.807
28806720	2880	6720	26/03/2007	85	11:35:23	-27 45 48.78234	135 40 55.04893	121.732	567198.529	6928803.591	113.999	601307	3976.5	0.045	0.015	-0.021	3976.479	2.361	979120.08	-33.1	35.18	-12.756	-10.676
28806800	2880	6800	26/03/2007	85	11:29:24	-27 45 48.50078	135 41 24.31217	133.641	567999.581	6928807.787	125.891	601307	3973.045	0.035	0.018	-0.02	3973.025	5.815	979116.626	-36.548	38.85	-14.087	-11.785
29204760	2920	4760	24/03/2007	83	16:53:05	-27 45 38.97957	135 28 58.75622	100.663	547593.343	6929198.078	93.513	601307	3970.76	0.101	-0.015	-0.066	3970.694	7.976	979114.465	-38.512	28.858	-10.464	-20.118
29204840	2920	4840	24/03/2007	83	16:48:50	-27 45 38.78713	135 29 28.00039	104.834	548393.85	6929200.829	97.655	601307	3972.33	0.072	-0.015	-0.065	3972.265	6.405	979116.036	-36.937	30.136	-10.928	-17.728
29204920	2920	4920	24/03/2007	83	16:44:05	-27 45 38.59291	135 29 57.37177	102.129	549197.842	6929203.569	94.922	601307	3975.45	0.104	-0.015	-0.064	3975.386	3.284	979119.157	-33.812	29.293	-10.622	-15.141
29205000	2920	5000	24/03/2007	83	16:39:21	-27 45 38.38928	135 30 26.39583	103.946	549992.329	6929206.584	96.71	601307	3977.61	0.065	-0.015	-0.063	3977.547	1.123	979121.318	-31.647	29.845	-10.822	-12.624
29205080	2920	5080	24/03/2007	83	16:34:36	-27 45 38.24150	135 30 55.29124	102.96	550783.289	6929207.844	95.697	601307	3979.69	0.059	-0.014	-0.063	3979.627	-0.957	979123.398	-29.564	29.532	-10.708	-10.74
29205160	2920	5160	24/03/2007	83	16:30:07	-27 45 38.20341	135 31 24.97756	101.617	551595.885	6929205.584	94.325	601307	3981.725	0.086	-0.014	-0.062	3981.663	-2.993	979125.434	-27.527	29.109	-10.555	-8.973
29205240	2920	5240	24/03/2007	83	16:23:21	-27 45 38.46796	135 31 53.94485	100.285	552388.76	6929194.042	92.965	601307	3983.565	0.041	-0.014	-0.061	3983.504	-4.834	979127.275	-25.691	28.689	-10.403	-7.405
29205320	2920	5320	24/03/2007	83	16:15:22	-27 45 38.21721	135 32 22.98326	97.701	553183.65	6929198.297	90.355	601307	3985.795	0.062	-0.014	-0.059	3985.736	-7.066	979129.507	-23.454	27.884	-10.111	-5.681
29205400	2920	5400	24/03/2007	83	16:10:50	-27 45 37.80711	135 32 52.10310	99.326	553980.793	6929207.392	91.954	601307	3985.78	0.046	-0.014	-0.058	3985.722	-7.052	979129.493	-23.46	28.377	-10.29	-5.372
29205480	2920	5480	24/03/2007	83	16:06:34	-27 45 37.76667	135 33 22.23158	98.732	554805.496	6929204.936	91.332	601307	3987.105	0.054	-0.015	-0.058	3987.047	-8.377	979130.818	-22.134	28.185	-10.22	-4.169
29205560	2920	5560	24/03/2007	83	16:00:19	-27 45 37.65469	135 33 51.34219	101.56	555602.348	6929204.752	94.135	601307	3987.315	0.061	-0.015	-0.057	3987.258	-8.588	979131.029	-21.921	29.05	-10.534	-3.404
29205640	2920	5640	24/03/2007	83	15:55:11	-27 45 37.52793	135 34 20.07692	100.949	556388.914	6929205.019	93.499	601307	3987.65	0.053	-0.015	-0.056	3987.594	-8.924	979131.365	-21.582	28.854	-10.463	-3.191
29205720	2920	5720	24/03/2007	83	15:50:03	-27 45 37.82995	135 34 49.46053	99.369	557193.181	6929191.957	91.895	601307	3987.535	0.053	-0.015	-0.055	3987.48	-8.81	979131.251	-21.702	28.359	-10.283	-3.626
29205800	2920	5800	24/03/2007	83	15:44:07	-27 45 37.58836	135 35 18.82229	98.908	557996.929	6929195.572	91.411	601307	3986.845	0.053	-0.016	-0.054	3986.791	-8.121	979130.562	-22.386	28.209	-10.229	-4.406
29205880	2920	5880	24/03/2007	83	15:39:18	-27 45 37.54028	135 35 47.88733	108.415	558792.528	6929193.219	100.894	601307	3983.735	0.1	-0.016	-0.053	3983.682	-5.012	979127.453	-25.494	31.136	-11.29	-5.648
29205960	2920	5960	24/03/2007	83	15:33:22	-27 45 37.35580	135 36 16.95055	101.005	559588.099	6929195.011	93.462	601307	3984.52	0.054	-0.016	-0.052	3984.468	-5.798	979128.239	-24.704	28.842	-10.458	-6.32
29206040	2920	6040	24/03/2007	83	15:26:44	-27 45 37.68773	135 36 45.77599	97.345	560377.083	6929180.892	89.78	601307	3984.66	0.063	-0.017	-0.051	3984.609	-5.939	979128.38	-24.57	27.706	-10.046	-6.911
29206120	2920	6120	24/03/2007	83	14:08:44	-27 45 37.34361	135 37 15.71519	100.447	561196.658	6929187.371	92.86	601307	3983.49	0.087	-0.026	-0.037	3983.453	-4.783	979127.224	-25.719	28.657	-10.391	-7.454
29206120	2920	6120	26/03/2007	85	15:31:35	-27 45 37.34976	135 37 15.71683	100.501	561196.702	6929187.182	92.914	601307	3983.67	0.034	-0.049	-0.043	3983.627	-4.787	979127.228	-25.715	28.673	-10.397	-7.439
29206200	2920	6200	26/03/2007	85	15:24:25	-27 45 37.12270	135 37 44.63722	101.533	561988.373	6929190.146	93.925	601307	3983.19	0.055	-0.049	-0.042	3983.148	-4.308	979126.749	-26.19	28.985	-10.51	-7.714
29206280	2920	6280	26/03/2007	85	15:18:58	-27 45 36.88935	135 38 13.60374	96.544	562781.31	6929193.246	88.915	601307	3984.535	0.082	-0.048	-0.042	3984.493	-5.653	979128.094	-24.84	27.439	-9.95	-7.35
29206360	2920	6360	26/03/2007	85	15:13:38	-27 45 36.61817	135 38 43.01338	99.516	563586.384	6929197.394	91.867	601307	3984.025	0.04	-0.048	-0.041	3983.984	-5.144	979127.585	-25.343	28.35	-10.28	-7.273
29206440	2920	6440	26/03/2007	85	11:08:23	-27 45 36.65360	135 39 12.63479	95.48	564397.206	6929192.023	87.81	601307	3984.85	0.038	0.027	-0.018	3984.832	-5.992	979128.433	-24.496	27.098	-9.826	-7.224
29206520	2920	6520	26/03/2007	85	11:15:17	-27 45 36.52164	135 39 42.02653	97.763	565201.77	6929191.782	90.074	601307	3983.43	0.075	0.024	-0.019	3983.411	-4.571	979127.012	-25.914	27.797	-10.079	-8.197
29206600	2920	6600	26/03/2007	85	11:20:09	-27 45 35.95386	135 40 11.08672	103.555	565997.333	6929204.948	95.848	601307	3980.695	0.062	0.022	-0.019	3980.676	-1.836	979124.277	-28.637	29.579	-10.725	-9.784
29606080	2960	6080	26/03/2007	85	14:41:09	-27 45 24.03529	135 37 00.80486	97.377	560790.573	6929598.933	89.799	601307	3984.18	0.047	-0.044	-0.038	3984.142	-5.302	979127.743	-24.925	27.712	-10.048	-7.262
29606160	2960	6160	26/03/2007	85	14:47:36	-27 45 23.64125	135 37 30.32311	102.79	561598.662	6929606.979	95.19	601307	3982.61	0.041	-0.045	-0.039	3982.571	-3.731	979126.172	-26.488	29.376	-10.652	-7.764
29606240	2960	6240	26/03/2007	85	14:53:29	-27 45 23.63264	135 37 59.89326	98.331	562408.113	6929603.104	90.709	601307	3983.56	0.053	-0.046	-0.04	3983.52	-4.68	979127.121	-25.539	27.993	-10.15	-7.696
29606320	2960	6320	26/03/2007	85	15:00:55	-27 45 23.47468	135 38 29.29106	96.245	563212.871	6929603.795	88.604	601307	3984.21	0.051	-0.047	-0.04	3984.17	-5.33	979127.771	-24.886	27.343	-9.915	-7.457
29606400	2960	6400	26/03/2007	85	15:06:20	-27 45 23.52563	135 38 58.28369	101.012	564006.506	6929598.063	93.351	601307	3983.005	0.072	-0.047	-0.041	3982.964	-4.124	979126.565	-26.093	28.808	-10.446	-7.73
29606480	2960	6480	26/03/2007	85	11:01:53	-27 45 23.15906	135 39 27.02043	96.65	564793.205	6929605.164	88.97	601307	3983.31	0.055	0.03	-0.018	3983.292	-4.452	979126.893	-25.757	27.456	-9.956	-8.257
29606560	2960	6560	26/03/2007	85	10:55:29	-27 45 23.34813	135 39 56.57903	104.645	565602.311	6929594.995	96.945	601307	3980.26	0.072	0.033	-0.017	3980.243	-1.403	979123.844	-28.81	29.917	-10.848	-9.741
29606640	2960	6640	26/03/2007	85	10:49:33	-27 45 22.85158	135 40 25.53961	110.999	566395.162	6929605.958	103.282	601307	3978.285	0.033	0.036	-0.016	3978.269	0.571	979121.87	-30.774	31.873	-11.557	-10.458
29606720	2960	6720	26/03/2007	85	10:43:39	-27 45 22.80536	135 40 54.91549	130.428	567199.308	6929602.95	122.693	601307	3972.925	0.056	0.038	-0.016	3972.909	5.931	979116.51	-36.133	37.863	-13.729	-11.999
29606800	2960	6800	26/03/2007	85	10:37:41	-27 45 22.79858	135 41 24.13061	120.587	567999.047	6929598.699	112.835	601307	3974.015	0.056	0.04	-0.015	3974	4.84	979117.601	-35.041	34.821	-12.626	-12.847
30004760	3000	4760	24/03/2007	83	11:45:52	-27 45 13.00186	135 28 59.23820	102.538	547609.675	6929997.37	95.377	601307	3969.68	0.084	-0.032	-0.011	3969.669	9.001	979113.44	-39	29.433	-10.673	-20.239
30004840	3000	4840	24/03/2007	83	11:51:07	-27 45 12.56661	135 29 28.16799	101.926	548401.659	6930007.628	94.738	601307	3972.07	0.132	-0.032	-0.012	3972.058	6.612	979115.829	-36.602	29.236	-10.601	-17.967
30004920	3000	4920	24/03/2007	83	11:56:47	-27 45 12.74781	135 29 57.35471	102.939	549200.603	6929998.836	95.723	601307	3974.185	0.075	-0.033	-0.013	3974.172	4.498	979117.943	-34.492	29.54	-10.711	-15.663
30005000	3000	5000	24/03/2007	83	12:02:12	-27 45 12.65788	135 30 26.65989	102.343	550002.823	6929998.322	95.099	601307	3976.61	0.071	-0.033	-0.014	3976.596	2.074	979120.367	-32.066	29.348	-10.642	-13.36
30005080	3000	5080	24/03/2007	83	12:07:53	-27 45 13.02600	135 30 55.32614	102.093	550787.495	6929983.733	94.822	601307	3978.56	0.07	-0.034	-0.015	3978.545	0.125	979122.316	-30.124	29.262	-10.611	-11.473
30005160	3000	5160	24/03/2007	83	12:14:19	-27 45 12.56231	135 31 25.82367	99.165	551622.405	6929994.475	91.864	601307	3981.02	0.054	-0.034	-0.016	3981.004	-2.334	979124.775	-27.656	28.349	-10.28	-9.586
30005240	3000	5240	24/03/2007	83	12:22:09	-27 45 11.66271	135 31 53.82175	100.153	552388.954	6930018.869	92.825	601307	3982.335	0.068	-0.034	-0.018	3982.317	-3.647	979126.088	-26.324	28.646	-10.387	-8.066
30005320	3000	5320	24/03/2007	83	12:37:45	-27 45 11.85428	135 32 23.62208	100.329	553204.696	6930009.422	92.975	601307	3983.885	0.07	-0.034	-0.02	3983.865	-5.195	979127.636	-24.78	28.692	-10.404	-6.492
30005400	3000	5400	24/03/2007	83	12:42:44	-27 45 11.99247	135 32 52.58463	101.592	553997.512	6930001.665	94.213	601307	3984.485	0.087	-0.034	-0.021	3984.464	-5.794	979128.235	-24.184	29.074	-10.542	-5.653
30005480	3000	5480	24/03/2007	83	12:47:57	-27 45 11.22633	135 33 21.92542	102.126	554800.807	6930021.636	94.719	601307	3985.11	0.056	-0.034	-0.022	3985.088	-6.418	979128.859	-23.544	29.23	-10.599	-4.913
30005560	3000	5560	24/03/2007	83	12:53:21	-27 45 11.87277	135 33 50.69053	100.609	555588.148	6929998.16	93.178	601307	3986.54	0.056	-0.034	-0.023	3986.517	-7.847	979130.288	-22.129	28.755	-10.427	-3.801
30005640	3000	5640	24/03/2007	83	13:15:23	-27 45 11.60402	135 34 20.17871	105.533	556395.411	6930002.702	98.077	601307	3986.04	0.092	-0.032	-0.027	3986.013	-7.343	979129.784	-22.627	30.267	-10.975	-3.335
30005720	3000	5720	24/03/2007	83	13:21:25	-27 45 11.49386	135 34 49.37762	102.364	557194.735	6930002.348	94.885	601307	3986.55	0.082	-0.032	-0.028	3986.522	-7.852	979130.293	-22.116	29.282	-10.618	-3.452
30005800	3000	5800	24/03/2007	83	13:27:57	-27 45 11.28533	135 35 19.14157	104.952	558009.541	6930004.893	97.448	601307	3985.215	0.077	-0.031	-0.029	3985.186	-6.516	979128.957	-23.448	30.072	-10.904	-4.279
30005880	3000	5880	24/03/2007	83	13:34:13	-27 45 11.35301	135 35 48.02289	106.591	558800.147	6929999.003	99.064	601307	3983.685	0.08	-0.031	-0.031	3983.654	-4.984	979127.425	-24.981	30.571	-11.085	-5.495
30005960	3000	5960	24/03/2007	83	13:45:43	-27 45 11.35586	135 36 17.09653	104.394	559596.027	6929995.029	96.846	601307	3983.245	0.076	-0.029	-0.033	3983.212	-4.542	979126.983	-25.423	29.887	-10.837	-6.373
30006040	3000	6040	24/03/2007	83	13:53:51	-27 45 10.69808	135 36 46.10956	98.467	560390.351	6930011.34	90.898	601307	3983.825	0.071	-0.028	-0.034	3983.791	-5.121	979127.562	-24.83	28.051	-10.171	-6.951
30006120	3000	6120	24/03/2007	83	14:01:18	-27 45 11.17486	135 37 15.08330	101.877	561183.425	6929992.692	94.286	601307	3982.48	0.101	-0.027	-0.035	3982.445	-3.775	979126.216	-26.186	29.097	-10.551	-7.64
30006120	3000	6120	25/03/2007	84	8:49:21	-27 45 11.17564	135 37 15.09893	101.851	561183.853	6929992.666	94.26	601307	3982.485	0.058	0.046	-0.004	3982.481	-3.743	979126.184	-26.218	29.089	-10.548	-7.677
30006200	3000	6200	26/03/2007	85	14:32:32	-27 45 10.69423	135 37 44.52331	105.064	561989.414	6930003.388	97.451	601307	3981.55	0.056	-0.043	-0.038	3981.512	-2.672	979125.113	-27.279	30.073	-10.905	-8.111
30006280	3000	6280	26/03/2007	85	14:26:51	-27 45 10.86397	135 38 14.06269	101.671	562798.021	6929994.004	94.038	601307	3982.495	0.077	-0.042	-0.037	3982.458	-3.618	979126.059	-26.337	29.02	-10.523	-7.839
30006360	3000	6360	26/03/2007	85	14:21:48	-27 45 10.80551	135 38 42.83411	101.504	563585.643	6929991.698	93.852	601307	3982.31	0.077	-0.041	-0.037	3982.273	-3.433	979125.874	-26.521	28.963	-10.502	-8.06
30006440	3000	6440	26/03/2007	85	14:15:52	-27 45 10.34201	135 39 12.54479	103.271	564399.043	6930001.668	95.599	601307	3981.215	0.032	-0.04	-0.036	3981.179	-2.339	979124.78	-27.605	29.502	-10.697	-8.801
30006520	3000	6520	26/03/2007	85	10:18:01	-27 45 10.26837	135 39 41.68521	98.516	565196.771	6929999.67	90.825	601307	3981.405	0.027	0.049	-0.013	3981.392	-2.552	979124.993	-27.39	28.029	-10.163	-9.525
30006600	3000	6600	26/03/2007	85	10:23:50	-27 45 10.25908	135 40 10.61691	104.566	565988.776	6929995.672	96.856	601307	3979.635	0.072	0.046	-0.014	3979.621	-0.781	979123.222	-29.161	29.89	-10.838	-10.11
30406080	3040	6080	26/03/2007	85	13:47:56	-27 44 57.87284	135 37 01.03119	102.525	560800.805	6930403.941	94.943	601307	3982.44	0.056	-0.033	-0.033	3982.407	-3.567	979126.008	-26.119	29.299	-10.624	-7.444
30406080	3040	6080	27/03/2007	86	15:55:58	-27 44 57.87792	135 37 01.02928	102.478	560800.752	6930403.785	94.895	601307	3982.545	0.071	-0.059	-0.078	3982.467	-3.562	979126.003	-26.124	29.285	-10.619	-7.459
30406160	3040	6160	26/03/2007	85	13:53:59	-27 44 57.88460	135 37 30.21847	109.478	561599.824	6930399.546	101.874	601307	3980.295	0.047	-0.035	-0.034	3980.261	-1.421	979123.862	-28.266	31.438	-11.4	-8.227
30406240	3040	6240	26/03/2007	85	13:59:03	-27 44 57.72861	135 37 59.41033	110.427	562398.996	6930400.261	102.802	601307	3979.92	0.036	-0.036	-0.034	3979.886	-1.046	979123.487	-28.637	31.725	-11.504	-8.416
30406320	3040	6320	26/03/2007	85	14:04:31	-27 44 57.90681	135 38 28.81449	108.78	563203.927	6930390.609	101.136	601307	3980.285	0.051	-0.037	-0.035	3980.25	-1.41	979123.851	-28.277	31.211	-11.317	-8.383
30406400	3040	6400	26/03/2007	85	14:10:14	-27 44 57.58914	135 38 57.84986	103.379	563998.843	6930396.215	95.716	601307	3981.005	0.075	-0.038	-0.035	3980.97	-2.13	979124.571	-27.55	29.538	-10.711	-8.723
30406480	3040	6480	26/03/2007	85	10:08:28	-27 44 57.27842	135 39 28.86208	98.732	564847.877	6930401.266	91.048	601307	3981.25	0.055	0.053	-0.013	3981.237	-2.397	979124.838	-27.277	28.097	-10.188	-9.368
30406560	3040	6560	26/03/2007	85	10:03:26	-27 44 56.92183	135 39 56.21272	100.249	565596.682	6930408.211	92.547	601307	3980.475	0.035	0.055	-0.012	3980.463	-1.623	979124.064	-28.044	28.56	-10.356	-9.84
30406640	3040	6640	26/03/2007	85	9:58:51	-27 44 57.23943	135 40 25.29072	108.574	566392.664	6930394.106	100.855	601307	3977.415	0.062	0.056	-0.012	3977.403	1.437	979121.004	-31.11	31.124	-11.286	-11.272
30406720	3040	6720	26/03/2007	85	9:41:57	-27 44 56.76550	135 40 54.74624	122.029	567199.116	6930404.248	114.292	601307	3972.28	0.036	0.063	-0.01	3972.27	6.57	979115.871	-36.233	35.271	-12.789	-13.752
30406800	3040	6800	26/03/2007	85	9:35:59	-27 44 56.58937	135 41 23.85693	108.122	567996.078	6930405.226	100.368	601307	3974.94	0.052	0.065	-0.01	3974.93	3.91	979118.531	-33.57	30.974	-11.231	-13.827
30804760	3080	4760	24/03/2007	83	11:39:47	-27 44 47.02715	135 28 58.31011	102.554	547587.405	6930796.722	95.385	601307	3969.2	0.072	-0.031	-0.01	3969.19	9.48	979112.961	-38.942	29.436	-10.674	-20.18
30804840	3080	4840	24/03/2007	83	11:30:25	-27 44 47.08553	135 29 27.92771	102.713	548398.211	6930791.717	95.516	601307	3971.355	0.077	-0.029	-0.008	3971.347	7.323	979115.118	-36.786	29.476	-10.688	-17.998
30804920	3080	4920	23/03/2007	82	16:08:56	-27 44 46.78955	135 29 56.78599	101.589	549188.274	6930797.646	94.364	601307	3973.7	0.105	0.011	-0.058	3973.642	4.996	979117.445	-34.453	29.121	-10.559	-15.892
30804920	3080	4920	24/03/2007	83	11:23:19	-27 44 46.78874	135 29 56.76578	101.6	549187.721	6930797.673	94.376	601307	3973.695	0.093	-0.028	-0.007	3973.688	4.982	979117.459	-34.439	29.124	-10.561	-15.875
30805000	3080	5000	23/03/2007	82	16:02:57	-27 44 46.56875	135 30 26.11389	100.713	549991.186	6930801.157	93.461	601307	3975.89	0.081	0.012	-0.058	3975.832	2.806	979119.635	-32.259	28.842	-10.458	-13.875
30805000	3080	5000	24/03/2007	83	17:03:09	-27 44 46.54749	135 30 26.05355	100.767	549989.537	6930801.818	93.515	601307	3975.925	0.074	-0.016	-0.068	3975.857	2.813	979119.628	-32.265	28.859	-10.464	-13.871

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
30805080	3080	5080	23/03/2007	82	15:58:12	-27 44 46.53994	135 30 55.49154	102.755	550795.436	6930798.702	95.476	601307	3977.27	0.046	0.012	-0.057	3977.213	1.425	979121.016	-30.877	29.464	-10.684	-12.097
30805160	3080	5160	20/03/2007	79	15:46:40	-27 44 45.81999	135 31 27.01141	101.943	551658.424	6930817.211	94.633	403244	3542.187	0.022	0.077	-0.086	3542.101	-0.689	979123.13	-28.748	29.204	-10.589	-10.134
30805240	3080	5240	20/03/2007	79	15:36:13	-27 44 46.26490	135 31 53.73454	101.524	552389.943	6930800.383	94.189	403244	3543.799	0.033	0.085	-0.084	3543.715	-2.303	979124.744	-27.143	29.067	-10.54	-8.616
30805320	3080	5320	20/03/2007	79	15:29:40	-27 44 45.98116	135 32 22.88957	101.559	553188.136	6930805.64	94.198	403244	3545.3	0.027	0.089	-0.083	3545.217	-3.805	979126.246	-25.635	29.07	-10.541	-7.107
30805400	3080	5400	20/03/2007	79	15:23:45	-27 44 46.45324	135 32 52.09531	105.414	553987.615	6930787.581	98.027	403244	3545.28	0.065	0.093	-0.081	3545.199	-3.787	979126.228	-25.663	30.251	-10.969	-6.381
30805400	3080	5400	21/03/2007	80	8:19:56	-27 44 46.46121	135 32 52.09381	105.408	553987.573	6930787.336	98.021	403244	3545.295	0.041	-0.087	-0.003	3545.292	-3.774	979126.215	-25.676	30.249	-10.969	-6.396
30805480	3080	5480	21/03/2007	80	8:25:44	-27 44 45.86101	135 33 21.43577	106.193	554790.929	6930802.202	98.78	403244	3545.98	0.042	-0.089	-0.003	3545.977	-4.459	979126.9	-24.979	30.484	-11.053	-5.549
30805560	3080	5560	21/03/2007	80	8:33:56	-27 44 45.30152	135 33 50.11902	103.541	555576.25	6930815.845	96.103	403244	3547.752	0.039	-0.091	-0.004	3547.748	-6.23	979128.671	-23.196	29.657	-10.754	-4.293
30805640	3080	5640	21/03/2007	80	8:40:09	-27 44 45.50104	135 34 20.49283	111.014	556407.746	6930805.867	103.551	403244	3546.814	0.058	-0.092	-0.005	3546.809	-5.291	979127.732	-24.14	31.956	-11.587	-3.771
30805720	3080	5720	21/03/2007	80	8:46:02	-27 44 45.32213	135 34 48.90500	115.76	557185.594	6930807.73	108.275	403244	3545.835	0.045	-0.093	-0.005	3545.83	-4.312	979126.753	-25.115	33.414	-12.116	-3.817
30805800	3080	5800	21/03/2007	80	8:52:09	-27 44 45.37290	135 35 17.91032	110.809	557979.649	6930802.398	103.3	403244	3546.457	0.056	-0.093	-0.006	3546.451	-4.933	979127.374	-24.495	31.878	-11.559	-4.176
30805880	3080	5880	21/03/2007	80	8:58:27	-27 44 45.20402	135 35 47.41084	110.433	558787.293	6930803.706	102.901	403244	3545.464	0.044	-0.094	-0.006	3545.458	-3.94	979126.381	-25.484	31.755	-11.515	-5.244
30805960	3080	5960	21/03/2007	80	9:03:47	-27 44 45.04413	135 36 16.37118	104.247	559580.149	6930804.757	96.694	403244	3545.773	0.057	-0.094	-0.007	3545.766	-4.248	979126.689	-25.173	29.84	-10.82	-6.153
30806040	3080	6040	21/03/2007	80	9:12:05	-27 44 44.94485	135 36 45.00598	103.842	560364.085	6930803.936	96.269	403244	3544.925	0.095	-0.094	-0.007	3544.918	-3.4	979125.841	-26.019	29.709	-10.772	-7.083
30806120	3080	6120	26/03/2007	85	8:27:10	-27 44 45.17113	135 37 15.24485	114.037	561191.885	6930792.825	106.442	601307	3979.23	0.071	0.086	-0.003	3979.227	-0.387	979122.828	-29.037	32.848	-11.911	-8.1
30806200	3080	6200	26/03/2007	85	8:33:31	-27 44 44.73312	135 37 44.93533	109.617	562004.777	6930802.175	102.001	601307	3979.79	0.054	0.085	-0.004	3979.786	-0.946	979123.387	-28.469	31.478	-11.414	-8.405
30806280	3080	6280	26/03/2007	85	8:38:59	-27 44 44.50981	135 38 13.94394	112.324	562798.97	6930804.96	104.688	601307	3979.1	0.076	0.083	-0.004	3979.096	-0.256	979122.697	-29.154	32.307	-11.715	-8.562
30806360	3080	6360	26/03/2007	85	8:44:53	-27 44 44.42963	135 38 42.89755	104.348	563591.635	6930803.298	96.693	601307	3980.885	0.066	0.081	-0.005	3980.88	-2.04	979124.481	-27.368	29.839	-10.82	-8.349
30806440	3080	6440	26/03/2007	85	8:50:36	-27 44 44.23383	135 39 12.47381	110.027	564401.367	6930805.05	102.352	601307	3978.865	0.056	0.08	-0.005	3978.86	-0.02	979122.461	-29.384	31.586	-11.453	-9.252
30806520	3080	6520	26/03/2007	85	9:09:05	-27 44 44.37829	135 39 41.87034	100.169	565206.123	6930796.305	92.476	601307	3980.44	0.039	0.074	-0.007	3980.433	-1.593	979124.034	-27.814	28.538	-10.348	-9.624
30806600	3080	6600	26/03/2007	85	9:18:04	-27 44 44.18612	135 40 11.07261	101.901	566005.618	6930797.894	94.189	601307	3979.055	0.05	0.071	-0.008	3979.047	-0.207	979122.648	-29.196	29.067	-10.54	-10.669
31206000	3120	6000	21/03/2007	80	9:18:47	-27 44 32.18081	135 36 31.47689	105.471	559995.648	6931198.533	97.904	403244	3544.944	0.048	-0.093	-0.008	3544.936	-3.418	979125.859	-25.737	30.213	-10.955	-6.48
31206080	3120	6080	25/03/2007	84	9:04:09	-27 44 32.23501	135 37 01.53956	104.274	560818.678	6931192.766	96.686	601307	3981.415	0.051	0.039	-0.006	3981.409	-2.671	979125.112	-26.485	29.837	-10.819	-7.467
31206080	3120	6080	26/03/2007	85	8:21:58	-27 44 32.24487	135 37 01.53015	104.286	560818.419	6931192.464	96.698	601307	3981.51	0.036	0.087	-0.003	3981.507	-2.667	979125.108	-26.49	29.841	-10.82	-7.469
31206160	3120	6160	25/03/2007	84	9:11:47	-27 44 31.91682	135 37 30.09302	123.053	561600.448	6931198.613	115.445	601307	3976.675	0.05	0.036	-0.007	3976.668	2.07	979120.371	-31.22	35.626	-12.918	-8.512
31206160	3120	6160	27/03/2007	86	7:26:13	-27 44 31.90463	135 37 30.09193	123.152	561600.42	6931198.988	115.544	601307	3976.855	0.062	0.095	-0.005	3976.85	2.055	979120.386	-31.205	35.657	-12.929	-8.477
31206240	3120	6240	25/03/2007	84	9:19:25	-27 44 31.90681	135 37 59.41287	116.173	562403.153	6931194.818	108.544	601307	3977.92	0.069	0.033	-0.008	3977.912	0.826	979121.615	-29.976	33.497	-12.146	-8.625
31206320	3120	6320	25/03/2007	84	9:28:50	-27 44 31.41610	135 38 28.62653	108.172	563203.029	6931205.777	100.524	601307	3979.89	0.052	0.029	-0.009	3979.881	-1.143	979123.584	-27.997	31.022	-11.249	-8.223
31206400	3120	6400	25/03/2007	84	9:35:48	-27 44 31.22458	135 38 57.81481	114.101	564002.164	6931207.48	106.435	601307	3978.1	0.066	0.026	-0.01	3978.09	0.648	979121.793	-29.784	32.846	-11.91	-8.848
31206480	3120	6480	25/03/2007	84	9:43:33	-27 44 31.26159	135 39 27.08854	115.65	564803.602	6931202.086	107.965	601307	3977.055	0.039	0.023	-0.011	3977.044	1.694	979120.747	-30.83	33.318	-12.081	-9.594
31206560	3120	6560	25/03/2007	84	9:50:16	-27 44 31.04865	135 39 56.70296	102.653	565614.41	6931204.28	94.949	601307	3978.595	0.049	0.02	-0.011	3978.584	0.154	979122.287	-29.286	29.301	-10.625	-10.61
31206640	3120	6640	25/03/2007	84	10:05:56	-27 44 31.52577	135 40 24.91815	106.49	566386.796	6931185.396	98.769	601307	3975.36	0.048	0.014	-0.013	3975.347	3.391	979119.05	-32.533	30.48	-11.052	-13.105
31206720	3120	6720	25/03/2007	84	10:12:19	-27 44 31.01969	135 40 54.74434	113.56	567203.453	6931196.472	105.821	601307	3972.825	0.052	0.012	-0.014	3972.811	5.927	979116.514	-35.058	32.656	-11.841	-14.243
31206800	3120	6800	26/03/2007	85	9:27:13	-27 44 30.86251	135 41 23.61091	104.68	567993.781	6931196.905	96.925	601307	3975.01	0.052	0.068	-0.009	3975.001	3.839	979118.602	-32.967	29.911	-10.846	-13.902
31604760	3160	4760	20/03/2007	79	10:15:10	-27 44 20.59820	135 28 58.63276	104.201	547599.429	6931609.915	97.023	403244	3531.637	0.043	-0.047	-0.021	3531.616	9.796	979112.645	-38.712	29.941	-10.857	-19.628
31604840	3160	4840	20/03/2007	79	10:10:03	-27 44 20.97353	135 29 27.65702	103.538	548394.006	6931595.222	96.333	403244	3533.563	0.077	-0.051	-0.02	3533.543	7.869	979114.572	-36.793	29.728	-10.78	-17.844
31604920	3160	4920	20/03/2007	79	10:04:10	-27 44 20.24188	135 29 56.76754	102.9	549191.082	6931614.53	95.667	403244	3535.631	0.039	-0.056	-0.019	3535.612	5.8	979116.641	-34.709	29.523	-10.705	-15.891
31604920	3160	4920	24/03/2007	83	11:19:11	-27 44 20.24444	135 29 56.76627	102.93	549191.047	6931614.452	95.697	403244	3535.927	0.112	-0.028	-0.005	3535.922	5.82	979116.621	-34.729	29.532	-10.708	-15.905
31605000	3160	5000	20/03/2007	79	9:57:30	-27 44 20.34011	135 30 25.35215	104.809	549973.657	6931608.309	97.549	403244	3536.958	0.059	-0.062	-0.018	3536.94	4.472	979117.969	-33.383	30.104	-10.916	-14.195
31605080	3160	5080	20/03/2007	79	9:52:59	-27 44 20.81534	135 30 55.30324	106.204	550793.596	6931590.281	98.916	403244	3538.456	0.074	-0.065	-0.017	3538.439	2.973	979119.468	-31.893	30.525	-11.069	-12.437
31605160	3160	5160	20/03/2007	79	9:46:58	-27 44 19.88044	135 31 25.31659	104.79	551615.422	6931615.58	97.474	403244	3540.376	0.05	-0.069	-0.016	3540.36	1.052	979121.389	-29.953	30.08	-10.907	-10.78
31605240	3160	5240	20/03/2007	79	9:37:10	-27 44 20.62659	135 31 53.32563	104.51	552382.155	6931589.334	97.168	403244	3541.83	0.039	-0.076	-0.014	3541.816	-0.404	979122.845	-28.513	29.986	-10.873	-9.4
31605320	3160	5320	20/03/2007	79	9:25:59	-27 44 19.81232	135 32 22.71005	103.611	553186.752	6931610.889	96.243	403244	3543.432	0.034	-0.083	-0.012	3543.42	-2.008	979124.449	-26.892	29.701	-10.77	-7.961
31605320	3160	5320	21/03/2007	80	15:39:06	-27 44 19.81889	135 32 22.70664	103.606	553186.657	6931610.688	96.238	403244	3543.531	0.035	0.069	-0.042	3543.489	-1.971	979124.412	-26.929	29.699	-10.769	-7.999
31605320	3160	5320	5/04/2007	95	13:31:05	-27 44 19.81421	135 32 22.71413	103.597	553186.863	6931610.831	96.229	403244	3544.41	0.044	0.047	0.061	3544.471	-1.962	979124.403	-26.938	29.696	-10.768	-8.01
31605400	3160	5400	20/03/2007	79	15:15:35	-27 44 20.17094	135 32 52.00126	109.558	553988.64	6931596.312	102.165	403244	3543.243	0.076	0.098	-0.08	3543.163	-1.751	979124.192	-27.156	31.528	-11.432	-7.06
31605400	3160	5400	24/03/2007	83	16:43:59	-27 44 20.16828	135 32 52.00658	109.573	553988.786	6931596.393	102.179	403244	3543.539	0.068	-0.015	-0.051	3543.488	-1.746	979124.187	-27.161	31.532	-11.434	-7.063
31605480	3160	5480	20/03/2007	79	14:41:22	-27 44 20.24703	135 33 22.17243	109.331	554814.658	6931590.267	101.911	403244	3544.139	0.051	0.112	-0.073	3544.066	-2.654	979125.095	-26.255	31.45	-11.404	-6.209
31605560	3160	5560	20/03/2007	79	14:33:13	-27 44 19.45526	135 33 52.38430	106.012	555641.913	6931610.865	98.565	403244	3546.173	0.043	0.114	-0.072	3546.101	-4.689	979127.13	-24.203	30.417	-11.029	-4.816
31605640	3160	5640	20/03/2007	79	14:26:18	-27 44 19.82207	135 34 19.41038	125.838	556381.785	6931596.162	118.37	403244	3542.32	0.059	0.115	-0.07	3542.25	-0.838	979123.279	-28.062	36.529	-13.246	-4.779
31605720	3160	5720	20/03/2007	79	14:18:16	-27 44 19.27795	135 34 49.56733	115.799	557207.506	6931609.04	108.307	403244	3544.941	0.045	0.116	-0.069	3544.872	-3.46	979125.901	-25.429	33.424	-12.12	-4.125
31605800	3160	5800	20/03/2007	79	14:11:58	-27 44 19.62063	135 35 18.36589	119.119	557995.909	6931594.752	111.605	403244	3543.986	0.026	0.117	-0.067	3543.919	-2.507	979124.948	-26.389	34.441	-12.489	-4.436
31605880	3160	5880	20/03/2007	79	14:06:39	-27 44 19.12197	135 35 47.34401	110.352	558789.353	6931606.277	102.815	403244	3545.432	0.043	0.116	-0.066	3545.366	-3.954	979126.395	-24.932	31.729	-11.505	-4.708
31605960	3160	5960	20/03/2007	79	14:01:16	-27 44 19.22505	135 36 16.80616	102.877	559595.96	6931599.17	95.319	403244	3546.089	0.035	0.116	-0.065	3546.024	-4.612	979127.053	-24.276	29.415	-10.666	-5.526
31606040	3160	6040	20/03/2007	79	13:50:46	-27 44 19.33974	135 36 46.25291	113.931	560402.145	6931591.654	106.352	403244	3542.587	0.032	0.115	-0.063	3542.524	-1.112	979123.553	-27.778	32.82	-11.901	-6.859
31606120	3160	6120	27/03/2007	86	7:38:18	-27 44 19.04090	135 37 15.04424	107.999	561190.449	6931596.9	100.4	601307	3980.57	0.095	0.097	-0.007	3980.563	-1.658	979124.099	-27.226	30.983	-11.235	-7.477
31606200	3160	6200	27/03/2007	86	7:44:41	-27 44 18.70752	135 37 44.44189	121.252	561995.361	6931603.072	113.632	601307	3977.285	0.077	0.098	-0.008	3977.277	1.628	979120.813	-30.505	35.067	-12.715	-8.154
31606280	3160	6280	27/03/2007	86	7:51:04	-27 44 18.59261	135 38 13.95588	117.949	562803.425	6931602.452	110.309	601307	3977.97	0.067	0.099	-0.009	3977.961	0.944	979121.497	-29.819	34.041	-12.344	-8.121
31606360	3160	6360	27/03/2007	86	7:57:31	-27 44 18.33426	135 38 43.55857	111.48	563613.942	6931606.179	103.821	601307	3979.15	0.06	0.099	-0.01	3979.14	-0.235	979122.676	-28.634	32.039	-11.618	-8.213
31606440	3160	6440	27/03/2007	86	8:04:07	-27 44 18.50561	135 39 12.29500	118.45	564400.674	6931596.755	110.773	601307	3976.755	0.071	0.1	-0.011	3976.744	2.161	979120.28	-31.034	34.185	-12.395	-9.245
31606520	3160	6520	27/03/2007	86	8:12:03	-27 44 18.18035	135 39 41.81382	109.304	565208.909	6931602.447	101.609	601307	3977.135	0.078	0.101	-0.012	3977.123	1.782	979120.659	-30.648	31.357	-11.37	-10.662
31606600	3160	6600	27/03/2007	86	8:17:57	-27 44 18.27852	135 40 10.54360	105.524	565995.472	6931595.173	97.81	601307	3975.58	0.094	0.101	-0.013	3975.567	3.338	979119.103	-32.206	30.184	-10.945	-12.967
32006080	3200	6080	27/03/2007	86	11:23:03	-27 44 06.13462	135 37 00.31859	108.909	560789.275	6931996.061	101.317	601307	3980.885	0.073	0.054	-0.039	3980.846	-1.941	979124.382	-26.676	31.266	-11.337	-6.747
32006160	3200	6160	27/03/2007	86	11:15:11	-27 44 06.12081	135 37 29.74198	118.62	561594.867	6931992.424	111.009	601307	3978.22	0.077	0.058	-0.038	3978.182	0.723	979121.718	-29.34	34.257	-12.422	-7.504
32006240	3200	6240	27/03/2007	86	11:08:20	-27 44 05.84201	135 37 59.09873	130.122	562398.678	6931996.896	122.49	601307	3975.775	0.082	0.061	-0.037	3975.738	3.167	979119.274	-31.778	37.8	-13.707	-7.684
32006320	3200	6320	27/03/2007	86	11:00:37	-27 44 05.34052	135 38 28.25571	126.554	563197.056	6932008.196	118.904	601307	3975.86	0.089	0.065	-0.036	3975.824	3.081	979119.36	-31.682	36.694	-13.305	-8.293
32006400	3200	6400	27/03/2007	86	10:52:59	-27 44 05.26340	135 38 57.60694	118.776	564000.687	6932006.357	111.107	601307	3976.64	0.103	0.068	-0.035	3976.605	2.3	979120.141	-30.899	34.288	-12.433	-9.044
32006480	3200	6480	27/03/2007	86	10:45:13	-27 44 05.30918	135 39 26.60006	127.734	564794.493	6932000.736	120.047	601307	3972.905	0.076	0.072	-0.034	3972.871	6.034	979116.407	-34.634	37.047	-13.433	-11.021
32006560	3200	6560	27/03/2007	86	10:32:16	-27 44 04.81572	135 39 56.15617	136.906	565603.805	6932011.571	129.2	601307	3968.125	0.168	0.077	-0.032	3968.093	10.812	979111.629	-39.402	39.871	-14.457	-13.988
32006640	3200	6640	27/03/2007	86	8:52:12	-27 44 01.50063	135 40 24.03863	118.813	566367.77	6932109.428	111.09	601307	3970.875	0.117	0.1	-0.017	3970.858	8.047	979114.394	-36.568	34.282	-12.431	-14.717
32006720	3200	6720	27/03/2007	86	8:41:50	-27 44 04.84997	135 40 54.35522	106.343	567197.26	6932001.798	98.603	601307	3973.925	0.084	0.101	-0.016	3973.909	4.996	979117.445	-33.587	30.429	-11.034	-14.191
32006800	3200	6800	27/03/2007	86	8:34:45	-27 44 04.84460	135 41 23.85641	100.711	568004.99	6931997.463	92.954	601307	3975.395	0.116	0.101	-0.015	3975.38	3.525	979118.916	-32.115	28.686	-10.402	-13.831
32404760	3240	4760	20/03/2007	79	10:22:14	-27 43 54.97520	135 28 58.40275	106.194	547596.224	6932398.367	99.007	403244	3531.303	0.075	-0.041	-0.023	3531.28	10.132	979112.309	-38.519	30.554	-11.079	-19.044
32404840	3240	4840	20/03/2007	79	10:27:41	-27 43 55.24758	135 29 27.73627	105.19	548399.333	6932386.81	97.976	403244	3532.995	0.071	-0.035	-0.024	3532.971	8.441	979114	-36.833	30.235	-10.963	-17.561
32404920	3240	4920	20/03/2007	79	10:38:20	-27 43 54.68395	135 29 57.16912	106.167	549205.265	6932400.912	98.925	403244	3534.166	0.057	-0.026	-0.026	3534.14	7.272	979115.169	-35.653	30.528	-11.07	-16.194
32405000	3240	5000	20/03/2007	79	10:45:08	-27 43 54.01949	135 30 26.24030	109.073	550001.31	6932418.104	101.804	403244	3535.009	0.059	-0.02	-0.027	3534.982	6.43	979116.011	-34.797	31.417	-11.392	-14.772
32405080	3240	5080	20/03/2007	79	10:50:57	-27 43 54.32373	135 30 55.57294	109.447	550804.392	6932405.407	102.152	403244	3536.459	0.065	-0.014	-0.028	3536.431	4.981	979117.46	-33.354	31.524	-11.431	-13.261
32405160	3240	5160	20/03/2007	79	10:58:43	-27 43 54.22155	135 31 24.48543	108.242	551596.024	6932405.212	100.919	403244	3538.155	0.052	-0.006	-0.03	3538.125	3.287	979119.154	-31.658	31.144	-11.293	-11.807
32405240	3240	5240	20/03/2007	79	11:05:46	-27 43 53.88335	135 31 53.95825	106.399	552403.029	6932412.16	99.049	403244	3540.07	0.04	0.001	-0.031	3540.039	1.373	979121.068	-29.737	30.567	-11.084	-10.254
32405320	3240	5320	20/03/2007	79	11:13:15	-27 43 53.53897	135 32 23.00009	112.651	553198.237	6932419.298	105.276	403244	3539.989	0.061	0.008	-0.033	3539.956	1.456	979120.985	-29.813	32.488	-11.78	-9.105
32405320	3240	5320	25/03/2007	84	16:18:17	-27 43 53.54253	135 32 22.99957	112.665	553198.222	6932419.188	105.29	403244	3540.313	0.074	-0.034	0.048	3540.361	1.455	979120.986	-29.812	32.492	-11.782	-9.101
32405400	3240	5400	20/03/2007	79	11:19:11	-27 43 53.81640	135 32 51.94712	116.344	553990.766	6932407.261	108.944	403244	3540.433	0.088	0.013	-0.034	3540.399	1.013	979121.428	-29.376	33.62	-12.191	-7.946
32405480	3240	5480	20/03/2007	79	11:25:32	-27 43 54.13658	135 33 22.01742	113.26	554814.043	6932393.718	105.833	403244	3542.005	0.052	0.019	-0.035	3541.97	-0.558	979122.999	-27.811	32.66	-11.843	-6.994
32405560	3240	5560	20/03/2007	79	12:06:41	-27 43 53.39285	135 33 50.16334	110.086	555584.781	6932413.098	102.636	403244	3543.397	0.042	0.058	-0.043	3543.354	-1.942	979124.383	-26.412	31.673	-11.485	-6.223
32405640	3240	5640	20/03/2007	79	12:16:26	-27 43 53.77211	135 34 19.24586	123.314	556381.005	6932397.755	115.84	403244	3541.219	0.06	0.066	-0.045	3541.174	0.238	979122.203	-28.6	35.748	-12.962	-5.814
32405720	3240	5720	20/03/2007	79	12:27:36	-27 43 53.70410	135 34 48.86738	118.77	557192.051	6932396.053	111.273	403244	3542.797	0.061	0.074	-0.047	3542.75	-1.338	979123.779	-27.022	34.339	-12.451	-5.135
32405800	3240	5800	20/03/2007	79	12:35:11	-27 43 53.50859	135 35 18.02557	114.575	557990.432	6932398.28	107.056	403244	3544.012	0.045	0.08	-0.049	3543.963	-2.551	979124.992	-25.805	33.037	-11.98	-4.747
32405880	3240	5880	20/03/2007	79	12:42:26	-27 43 53.76410	135 35 47.26028	111.093	558790.841	6932386.566	103.552	403244	3544.972	0.043	0.085	-0.05	3544.922	-3.51	979125.951	-24.852	31.956	-11.587	-4.483

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
32405960	3240	5960	20/03/2007	79	13:34:11	-27 43 52.74715	135 36 17.19949	114.38	559610.731	6932413.86	106.817	403244	3543.658	0.065	0.111	-0.06	3543.598	-2.186	979124.627	-26.155	32.964	-11.953	-5.144
32406040	3240	6040	20/03/2007	79	13:43:23	-27 43 52.87186	135 36 45.36928	119.485	560382.005	6932406.209	111.903	403244	3541.603	0.029	0.114	-0.062	3541.541	-0.129	979122.57	-28.214	34.533	-12.522	-6.203
32406120	3240	6120	27/03/2007	86	11:30:42	-27 43 52.89188	135 37 15.20408	114.793	561198.883	6932401.502	107.19	601307	3979.505	0.074	0.05	-0.04	3979.465	-0.56	979123.001	-27.784	33.079	-11.995	-6.699
32406200	3240	6200	27/03/2007	86	11:38:08	-27 43 52.71834	135 37 44.82947	122.809	562010.059	6932402.724	115.186	601307	3978.06	0.08	0.047	-0.041	3978.019	0.886	979121.555	-29.226	35.546	-12.889	-6.569
32406280	3240	6280	27/03/2007	86	11:47:56	-27 43 52.41873	135 38 14.22259	157.948	562814.896	6932407.804	150.306	601307	3968.88	0.06	0.041	-0.043	3968.837	10.068	979112.373	-38.402	46.384	-16.819	-8.837
32406360	3240	6360	27/03/2007	86	11:56:43	-27 43 53.30473	135 38 42.89205	137.261	563599.731	6932376.453	129.6	601307	3972.165	0.069	0.037	-0.044	3972.121	6.784	979115.657	-35.136	39.995	-14.502	-9.644
32406440	3240	6440	27/03/2007	86	12:03:44	-27 43 52.25330	135 39 11.69797	127.813	564388.615	6932404.647	120.134	601307	3972.89	0.101	0.033	-0.045	3972.845	6.06	979116.381	-34.39	37.073	-13.443	-10.76
32406520	3240	6520	27/03/2007	86	12:12:29	-27 43 52.26000	135 39 40.92099	151.066	565188.749	6932400.17	143.369	601307	3965.12	0.102	0.029	-0.046	3965.074	13.831	979108.61	-42.162	44.244	-16.043	-13.961
32406600	3240	6600	27/03/2007	86	9:04:09	-27 43 52.30806	135 40 11.75959	136.593	566033.113	6932394.126	128.877	601307	3966.67	0.062	0.099	-0.019	3966.651	12.254	979110.187	-40.586	39.771	-14.421	-15.235
32806000	3280	6000	21/03/2007	80	9:39:38	-27 43 40.07314	135 36 31.32432	121.092	559999.399	6932801.941	113.517	403244	3541.894	0.025	-0.089	-0.01	3541.884	-0.366	979122.807	-27.713	35.031	-12.703	-5.384
32806080	3280	6080	27/03/2007	86	12:53:34	-27 43 39.79267	135 37 00.64795	122.703	560802.353	6932806.576	115.109	601307	3978.115	0.109	0.006	-0.052	3978.063	0.842	979121.599	-28.915	35.523	-12.881	-6.273
32806160	3280	6160	27/03/2007	86	12:46:25	-27 43 39.92924	135 37 29.72639	122.319	561598.531	6932798.359	114.705	601307	3978.495	0.061	0.01	-0.051	3978.444	0.461	979121.98	-28.537	35.398	-12.835	-5.974
32806240	3280	6240	27/03/2007	86	12:38:34	-27 43 39.88125	135 37 58.58598	164.991	562388.745	6932795.8	157.357	601307	3967.705	0.09	0.014	-0.05	3967.655	11.25	979111.191	-39.325	48.56	-17.608	-8.373
32806320	3280	6320	27/03/2007	86	12:32:22	-27 43 39.68887	135 38 28.18223	149.932	563199.154	6932797.527	142.279	601307	3969.67	0.104	0.017	-0.049	3969.621	9.284	979113.157	-37.355	43.907	-15.921	-9.369
32806400	3280	6400	27/03/2007	86	12:25:58	-27 43 39.31836	135 38 57.49088	150.166	564001.719	6932804.723	142.495	601307	3967.73	0.09	0.021	-0.048	3967.682	11.223	979111.218	-39.286	43.974	-15.945	-11.257
32806480	3280	6480	27/03/2007	86	12:19:12	-27 43 39.35792	135 39 26.72512	172.371	564802.181	6932799.259	164.681	601307	3960.17	0.079	0.025	-0.047	3960.123	18.782	979103.659	-46.846	50.821	-18.428	-14.453
32806560	3280	6560	27/03/2007	86	9:28:12	-27 43 40.63820	135 39 57.77849	122.66	565652.248	6932755.294	114.951	601307	3969.56	0.072	0.096	-0.023	3969.537	9.368	979113.073	-37.458	35.474	-12.863	-14.848
32806640	3280	6640	27/03/2007	86	9:38:08	-27 43 39.00203	135 40 25.18456	158.451	566402.933	6932801.559	150.726	601307	3961.21	0.06	0.094	-0.024	3961.186	17.719	979104.722	-45.776	46.514	-16.866	-16.128
32806720	3280	6720	27/03/2007	86	9:47:10	-27 43 39.67613	135 40 54.71475	136.07	567211.393	6932776.365	128.328	601307	3966.27	0.096	0.091	-0.025	3966.245	12.66	979109.781	-40.731	39.602	-14.36	-15.488
32806800	3280	6800	27/03/2007	86	9:58:23	-27 43 38.29373	135 41 23.62484	108.328	568003.227	6932814.494	100.569	601307	3972.66	0.061	0.088	-0.027	3972.633	6.272	979116.169	-34.314	31.036	-11.254	-14.532
33204760	3320	4760	21/03/2007	80	12:05:05	-27 43 28.75202	135 28 58.67823	109.568	547606.932	6933205.232	102.373	403244	3531.058	0.056	0.004	-0.023	3531.035	10.483	979111.958	-38.328	31.592	-11.456	-18.191
33204840	3320	4840	21/03/2007	80	11:56:22	-27 43 29.09897	135 29 28.18748	106.938	548414.896	6933191.361	99.716	403244	3532.555	0.057	-0.003	-0.022	3532.533	8.985	979113.456	-36.837	30.772	-11.158	-17.223
33204920	3320	4920	21/03/2007	80	11:50:53	-27 43 28.83284	135 29 57.53161	113.819	549218.415	6933196.319	106.571	403244	3531.858	0.062	-0.007	-0.021	3531.837	9.681	979112.76	-37.528	32.888	-11.925	-16.565
33205000	3320	5000	21/03/2007	80	11:44:55	-27 43 28.65349	135 30 26.13736	118.777	550001.707	6933198.636	111.503	403244	3531.898	0.075	-0.012	-0.021	3531.877	9.641	979112.8	-37.484	34.41	-12.477	-15.551
33205080	3320	5080	21/03/2007	80	11:38:08	-27 43 28.48359	135 30 55.86953	112.593	550815.841	6933200.484	105.291	403244	3534.701	0.058	-0.018	-0.02	3534.681	6.837	979115.604	-34.676	32.493	-11.782	-13.966
33205160	3320	5160	21/03/2007	80	11:31:56	-27 43 28.73423	135 31 24.75531	110.088	551606.747	6933189.435	102.76	403244	3537.133	0.031	-0.022	-0.02	3537.113	4.405	979118.036	-32.25	31.712	-11.499	-12.037
33205240	3320	5240	21/03/2007	80	11:21:11	-27 43 28.34151	135 31 53.70975	111.886	552399.618	6933198.123	104.532	403244	3538.273	0.029	-0.031	-0.019	3538.254	3.264	979119.177	-31.1	32.259	-11.697	-10.539
33205320	3320	5320	21/03/2007	80	11:07:41	-27 43 28.22513	135 32 23.22164	114.21	553207.717	6933198.189	106.829	403244	3538.936	0.061	-0.041	-0.018	3538.918	2.6	979119.841	-30.434	32.967	-11.954	-9.421
33205400	3320	5400	21/03/2007	80	10:59:56	-27 43 28.33819	135 32 51.18454	130.475	553973.372	6933191.33	123.071	403244	3536.17	0.042	-0.046	-0.017	3536.153	5.365	979117.076	-33.201	37.98	-13.772	-8.993
33205480	3320	5480	21/03/2007	80	10:52:55	-27 43 27.66289	135 33 21.55564	114.337	554805.078	6933208.383	106.907	403244	3540.641	0.083	-0.051	-0.016	3540.625	0.893	979121.548	-28.715	32.992	-11.963	-7.687
33205560	3320	5560	21/03/2007	80	10:45:39	-27 43 28.05546	135 33 50.44854	116.403	555596.16	6933192.706	108.949	403244	3540.385	0.068	-0.056	-0.016	3540.369	1.149	979121.292	-28.98	33.622	-12.191	-7.549
33205640	3320	5640	21/03/2007	80	10:38:31	-27 43 27.45311	135 34 19.55958	124.608	556393.357	6933207.564	117.13	403244	3538.976	0.048	-0.061	-0.015	3538.961	2.557	979119.884	-30.375	36.146	-13.107	-7.336
33205720	3320	5720	21/03/2007	80	10:20:17	-27 43 27.77052	135 34 49.54372	133.836	557214.331	6933193.956	126.335	403244	3537.529	0.066	-0.072	-0.013	3537.516	4.002	979118.439	-31.827	38.987	-14.137	-6.976
33205800	3320	5800	21/03/2007	80	10:11:10	-27 43 27.43739	135 35 18.42737	126.858	558005.266	6933200.453	119.335	403244	3539.904	0.093	-0.076	-0.013	3539.891	1.627	979120.814	-29.445	36.827	-13.354	-5.972
33205880	3320	5880	21/03/2007	80	10:03:25	-27 43 27.37251	135 35 47.14543	114.021	558791.63	6933198.667	106.476	403244	3543.677	0.053	-0.08	-0.012	3543.665	-2.147	979124.588	-25.669	32.858	-11.915	-4.726
33205880	3320	5880	23/03/2007	82	16:05:12	-27 43 27.37247	135 35 47.13737	114.03	558791.409	6933198.669	106.486	403244	3543.807	0.032	0.011	-0.017	3543.79	-2.117	979124.558	-25.699	32.862	-11.916	-4.754
33205960	3320	5960	21/03/2007	80	9:54:03	-27 43 27.23065	135 36 16.82801	111.931	559604.416	6933199.068	104.365	403244	3544.146	0.061	-0.084	-0.011	3544.135	-2.617	979125.058	-25.196	32.207	-11.678	-4.668
33206040	3320	6040	21/03/2007	80	9:47:20	-27 43 27.63914	135 36 45.28614	123.998	560383.591	6933182.648	116.413	403244	3540.797	0.064	-0.086	-0.01	3540.787	0.731	979121.71	-28.553	35.925	-13.027	-5.654
33206120	3320	6120	27/03/2007	86	11:41:06	-27 43 26.75074	135 37 15.99253	126.193	561224.528	6933205.773	118.588	403244	3540.18	0.078	0.045	-0.032	3540.148	1.734	979120.707	-29.538	36.596	-13.27	-6.211
33206200	3320	6200	27/03/2007	86	11:35:55	-27 43 27.32443	135 37 44.19104	140.097	561996.57	6933184.202	132.472	403244	3536.571	0.074	0.048	-0.031	3536.54	5.342	979117.099	-33.157	40.881	-14.824	-7.1
33206280	3320	6280	27/03/2007	86	11:30:33	-27 43 26.74578	135 38 14.06496	142.645	562814.669	6933197.802	135	403244	3534.405	0.069	0.051	-0.031	3534.374	7.508	979114.933	-35.312	41.661	-15.106	-8.757
33206360	3320	6360	27/03/2007	86	11:22:35	-27 43 25.55350	135 38 42.62594	156.889	563596.919	6933230.418	149.227	403244	3529.073	0.058	0.055	-0.03	3529.043	12.839	979109.602	-40.618	46.051	-16.698	-11.265
33206440	3320	6440	27/03/2007	86	11:13:53	-27 43 27.64009	135 39 12.42021	163.402	564412.409	6933161.911	155.721	403244	3525.006	0.074	0.059	-0.029	3524.977	16.905	979105.536	-44.727	48.056	-17.425	-14.097
33206520	3320	6520	27/03/2007	86	10:58:19	-27 43 26.83634	135 39 39.72769	123.156	565160.276	6933182.652	115.458	403244	3532.273	0.092	0.066	-0.027	3532.246	9.636	979112.805	-37.441	35.63	-12.92	-14.731
33206600	3320	6600	27/03/2007	86	10:06:06	-27 43 25.49746	135 40 10.34856	161.347	565998.964	6933219.321	153.629	403244	3523.003	0.06	0.086	-0.021	3522.982	18.9	979103.541	-46.678	47.41	-17.191	-16.459
33606000	3360	6000	21/03/2007	80	15:14:16	-27 43 13.92088	135 36 31.30646	108.408	560002.887	6933606.665	100.831	403244	3544.405	0.028	0.077	-0.039	3544.366	-2.848	979125.289	-24.691	31.116	-11.283	-4.857
33606080	3360	6080	27/03/2007	86	11:46:57	-27 43 14.28407	135 37 01.79347	124.154	560837.652	6933591.336	116.556	403244	3540.198	0.065	0.042	-0.033	3540.165	1.717	979120.724	-29.263	35.969	-13.043	-6.337
33606160	3360	6160	27/03/2007	86	11:53:51	-27 43 15.05477	135 37 29.69151	122.404	561601.46	6933563.769	114.788	403244	3540.222	0.088	0.038	-0.033	3540.189	1.693	979120.748	-29.255	35.424	-12.845	-6.676
33606240	3360	6240	27/03/2007	86	11:59:40	-27 43 13.66932	135 37 58.63134	129.333	562394.133	6933602.354	121.698	403244	3537.141	0.052	0.035	-0.034	3537.107	4.775	979117.666	-32.308	37.556	-13.618	-8.37
33606320	3360	6320	27/03/2007	86	12:07:54	-27 43 11.92368	135 38 26.94033	170.635	563169.595	6933652.06	162.981	403244	3525.591	0.094	0.031	-0.035	3525.556	16.326	979106.115	-43.823	50.296	-18.238	-11.765
33606400	3360	6400	27/03/2007	86	12:14:56	-27 43 12.23438	135 38 57.12018	144.448	563995.962	6933638.172	136.775	403244	3529.31	0.062	0.027	-0.036	3529.274	12.608	979109.833	-40.112	42.209	-15.305	-13.208
33606480	3360	6480	27/03/2007	86	9:08:50	-27 43 14.19427	135 39 28.39610	130.235	564852.071	6933573.32	122.543	403244	3530.694	0.059	0.099	-0.015	3530.679	11.203	979111.238	-38.747	37.817	-13.713	-14.643
33606560	3360	6560	27/03/2007	86	9:15:22	-27 43 13.47426	135 39 55.55266	154.029	565595.818	6933591.481	146.32	403244	3524.378	0.059	0.098	-0.016	3524.362	17.52	979104.921	-45.049	45.154	-16.373	-16.268
33606640	3360	6640	27/03/2007	86	9:25:29	-27 43 13.15673	135 40 22.97029	162.349	566346.65	6933597.172	154.624	403244	3522.408	0.078	0.096	-0.017	3522.391	19.491	979102.95	-47.014	47.717	-17.302	-16.599
33606720	3360	6720	27/03/2007	86	9:35:07	-27 43 10.02931	135 40 53.44883	177.832	567181.779	6933688.816	170.089	403244	3518.73	0.092	0.094	-0.018	3518.712	23.17	979099.271	-50.628	52.489	-19.033	-17.172
33606800	3360	6800	27/03/2007	86	9:47:17	-27 43 11.91966	135 41 22.75773	149.837	567984.029	6933626.181	142.077	403244	3525.636	0.054	0.091	-0.019	3525.617	16.265	979106.176	-43.762	43.845	-15.898	-15.816
34004760	3400	4760	21/03/2007	80	12:12:05	-27 43 03.25594	135 28 58.34439	114.871	547600.866	6933989.789	107.67	403244	3530.044	0.041	0.009	-0.023	3530.021	11.497	979110.944	-38.815	33.227	-12.048	-17.637
34004840	3400	4840	21/03/2007	80	12:17:49	-27 43 02.70996	135 29 27.48337	109.796	548398.853	6934003.435	102.568	403244	3531.827	0.078	0.014	-0.024	3531.803	9.715	979112.726	-37.022	31.652	-11.477	-16.847
34004920	3400	4920	21/03/2007	80	12:23:35	-27 43 02.97226	135 29 56.70834	119.817	549199.097	6933992.148	112.562	403244	3530.257	0.076	0.018	-0.024	3530.233	11.285	979111.156	-38.598	34.737	-12.596	-16.457
34005000	3400	5000	21/03/2007	80	12:28:59	-27 43 02.51615	135 30 25.95142	117.652	549999.927	6934002.912	110.37	403244	3531.782	0.042	0.022	-0.025	3531.757	9.761	979112.68	-37.064	34.06	-12.35	-15.354
34005080	3400	5080	21/03/2007	80	13:22:03	-27 43 02.70769	135 30 54.82891	115.105	550790.666	6933993.736	107.798	403244	3533.368	0.035	0.057	-0.029	3533.339	8.179	979114.262	-35.486	33.266	-12.063	-14.282
34005160	3400	5160	21/03/2007	80	13:27:37	-27 43 02.37164	135 31 23.64642	119.882	551579.83	6934000.75	112.549	403244	3534.235	0.068	0.06	-0.03	3534.205	7.313	979115.128	-34.613	34.733	-12.594	-12.475
34005240	3400	5240	21/03/2007	80	13:46:42	-27 43 02.29097	135 31 53.63529	117.213	552401.038	6933999.717	109.853	403244	3536.541	0.042	0.069	-0.032	3536.509	5.009	979117.432	-32.307	33.901	-12.293	-10.699
34005320	3400	5320	21/03/2007	80	13:53:33	-27 43 01.94196	135 32 23.23827	119.29	553211.717	6934006.931	111.904	403244	3536.72	0.067	0.071	-0.032	3536.688	4.83	979117.611	-32.121	34.534	-12.522	-10.11
34005400	3400	5400	21/03/2007	80	14:01:34	-27 43 01.70009	135 32 51.74567	123.933	553992.382	6934010.927	116.524	403244	3536.206	0.061	0.074	-0.033	3536.173	5.345	979117.096	-32.631	35.959	-13.039	-9.711
34005480	3400	5480	21/03/2007	80	14:08:29	-27 43 02.12244	135 33 21.00222	120.059	554793.471	6933994.343	112.626	403244	3537.617	0.029	0.076	-0.034	3537.583	3.935	979118.506	-31.23	34.756	-12.603	-9.076
34005560	3400	5560	21/03/2007	80	14:18:19	-27 43 01.20642	135 33 49.51585	122.205	555574.403	6934018.981	114.747	403244	3537.237	0.062	0.078	-0.034	3537.203	4.315	979118.126	-31.591	35.411	-12.84	-9.02
34005640	3400	5640	21/03/2007	80	14:25:32	-27 43 01.72036	135 34 19.45425	131.614	556394.151	6933999.387	124.133	403244	3535.7	0.041	0.079	-0.035	3535.665	5.853	979116.588	-33.14	38.307	-13.89	-8.723
34005720	3400	5720	21/03/2007	80	14:32:31	-27 43 01.21353	135 34 48.20226	141.023	557181.448	6934011.301	133.52	403244	3534.54	0.068	0.08	-0.036	3534.504	7.014	979115.427	-34.29	41.204	-14.941	-8.027
34005720	3400	5720	22/03/2007	81	8:21:09	-27 43 01.20368	135 34 48.19596	141.008	557181.277	6934011.605	133.505	403244	3534.618	0.041	-0.047	-0.003	3534.615	7.004	979115.437	-34.28	41.2	-14.939	-8.02
34005800	3400	5800	21/03/2007	80	14:43:45	-27 43 02.16419	135 35 17.33211	137.812	557978.99	6933978.267	130.287	403244	3536.665	0.039	0.081	-0.037	3536.628	4.89	979117.551	-32.186	40.207	-14.579	-6.558
34005880	3400	5880	21/03/2007	80	14:50:55	-27 43 01.51077	135 35 46.44023	117.185	558776.172	6933994.541	109.638	403244	3542.216	0.073	0.08	-0.037	3542.179	-0.661	979123.102	-26.621	33.834	-12.268	-5.056
34005960	3400	5960	21/03/2007	80	14:58:22	-27 43 01.69401	135 36 16.11195	113.241	559588.665	6933984.943	105.674	403244	3542.951	0.08	0.08	-0.038	3542.913	-1.395	979123.836	-25.891	32.611	-11.825	-5.105
34005960	3400	5960	22/03/2007	81	15:53:08	-27 43 01.69763	135 36 16.10837	113.23	559588.566	6933984.832	105.662	403244	3543.067	0.091	0.041	-0.044	3543.023	-1.404	979123.845	-25.882	32.607	-11.824	-5.098
34006040	3400	6040	21/03/2007	80	15:05:16	-27 43 01.50501	135 36 45.31261	112.763	560388.315	6933986.808	105.176	403244	3542.086	0.055	0.079	-0.039	3542.047	-0.529	979122.97	-26.753	32.457	-11.769	-6.065
34006120	3400	6120	27/03/2007	86	12:43:16	-27 43 00.06551	135 37 14.98408	115.658	561201.054	6934027.035	108.051	403244	3540.552	0.09	0.011	-0.039	3540.513	1.369	979121.072	-28.621	33.345	-12.091	-7.368
34006200	3400	6200	27/03/2007	86	12:37:02	-27 43 01.19227	135 37 45.06079	122.265	562024.493	6933988.185	114.638	403244	3537.828	0.078	0.015	-0.038	3537.79	4.092	979118.349	-31.368	35.377	-12.828	-8.818
34006280	3400	6280	27/03/2007	86	12:31:40	-27 43 00.59537	135 38 13.20306	134.348	562795.23	6934002.591	126.702	403244	3533.792	0.09	0.017	-0.038	3533.754	8.128	979114.313	-35.391	39.1	-14.178	-10.469
34006360	3400	6360	27/03/2007	86	12:24:52	-27 43 00.27573	135 38 42.67613	154.732	563602.367	6934008.226	147.068	403244	3527.248	0.064	0.021	-0.037	3527.211	14.671	979107.77	-41.928	45.385	-16.457	-13
34006440	3400	6440	27/03/2007	86	12:19:26	-27 43 00.85782	135 39 10.53934	139.197	564365.276	6933986.294	131.516	403244	3528.782	0.097	0.025	-0.036	3528.746	13.136	979109.305	-40.405	40.586	-14.717	-14.536
34006520	3400	6520	27/03/2007	86	8:56:59	-27 43 01.29654	135 39 42.50242	154.317	565240.476	6933968.124	146.616	403244	3524.245	0.075	0.1	-0.014	3524.231	17.651	979104.79	-44.929	45.246	-16.406	-16.09
34006600	3400	6600	27/03/2007	86	8:45:11	-27 42 58.96844	135 40 12.25231	159.125	566055.534	6934035.357	151.405	403244	3522.595	0.059	0.101	-0.012	3522.583	19.299	979103.142	-46.529	46.724	-16.942	-16.747
34206560	3420	6560	5/04/2007	95	10:28:00	-27 42 54.06259	135 39 56.13012	135.987	565614.859	6934188.708	128.276	403244	3528.498	0.063	-0.018	0.029	3528.527	13.982	979108.459	-41.11	39.586	-14.354	-15.878
34406080	3440	6080	25/03/2007	84	14:56:22	-27 42 47.61042	135 37 00.97707	111.588	560819.408	6934412.212	103.989	601307	3977.62	0.08	-0.035	-0.046	3977.574	1.164	979121.277	-28.159	32.091	-11.636	-7.705
34406160	3440	6160	25/03/2007	84	14:45:08	-27 42 48.28098	135 37 29.49269	122.294	561600.194	6934387.643	114.676	601307	3973.765	0.052	-0.035	-0.045	3973.72	5.018	979117.423	-32.027	35.389	-12.832	-9.47
34406240	3440	6240	25/03/2007	84	14:39:24	-27 42 47.39122	135 37 58.54276	125.485	562395.862	6934410.961	117.848	601307	3971.895	0.079	-0.035	-0.044	3971.851	6.887	979115.554	-33.878	36.368	-13.187	-10.697
34406320	3440	6320	25/03/2007	84	14:33:10	-27 42 47.57184	135 38 27.70276	135.418	563194.372	6934401.274	127.762	601307	3967.87	0.044	-0.035	-0.043	3967.827	10.911	979111.53	-37.906	39.427	-14.297	-12.775
34406400	3440	6400	25/03/2007	84	14:26:42	-27 42 47.73636	135 38 56.65527	139.182	563987.204	6934392.061	131.508	601307	3965.47	0.136	-0.035	-0.043	3965.427	13.311	979109.13	-40.309	40.583	-14.716	-14.441

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
34406480	3440	6480	25/03/2007	84	14:20:08	-27 42 47.79793	135 39 26.29001	160.368	564798.734	6934385.863	152.675	601307	3959.515	0.039	-0.035	-0.042	3959.473	19.265	979103.176	-46.264	47.116	-17.084	-16.233
34406520	3440	6520	5/04/2007	95	10:51:47	-27 42 47.89763	135 39 39.44387	145.077	565158.934	6934380.868	137.377	403244	3526.249	0.027	-0.005	0.033	3526.282	16.227	979106.214	-43.228	42.395	-15.372	-16.206
34406560	3440	6560	5/04/2007	95	10:21:34	-27 42 47.04839	135 39 55.50197	141.976	565598.823	6934404.633	134.266	403244	3526.782	0.1	-0.023	0.028	3526.81	15.699	979106.742	-42.683	41.434	-15.024	-16.273
34406600	3440	6600	5/04/2007	95	10:11:35	-27 42 46.80059	135 40 08.98490	147.026	565968.093	6934410.258	139.308	403244	3525.483	0.053	-0.028	0.026	3525.509	17	979105.441	-43.978	42.99	-15.589	-16.577
34406640	3440	6640	25/03/2007	84	12:44:47	-27 42 47.22076	135 40 29.11107	171.607	566519.175	6934394.323	163.877	601307	3956.475	0.073	-0.028	-0.031	3956.444	22.294	979100.147	-49.281	50.572	-18.338	-17.047
34406720	3440	6720	25/03/2007	84	12:37:37	-27 42 46.82477	135 40 52.36812	176.954	567156.134	6934403.003	169.211	601307	3955.585	0.076	-0.027	-0.03	3955.555	23.183	979099.258	-50.162	52.219	-18.935	-16.878
34406800	3440	6800	25/03/2007	84	12:21:30	-27 42 46.90600	135 41 22.68380	192.411	567986.314	6934395.885	184.65	601307	3952.38	0.071	-0.025	-0.028	3952.352	26.386	979096.055	-53.367	56.983	-20.662	-17.046
34606560	3460	6560	5/04/2007	95	10:33:00	-27 42 40.76347	135 39 55.90912	150.782	565611.017	6934597.964	143.071	403244	3524.567	0.039	-0.016	0.03	3524.597	17.912	979104.529	-44.766	44.152	-16.01	-16.624
34606600	3460	6600	5/04/2007	95	9:58:57	-27 42 41.32630	135 40 09.11519	147.912	565972.575	6934578.687	140.193	403244	3524.984	0.07	-0.035	0.024	3525.008	17.501	979104.94	-44.366	43.264	-15.688	-16.79
34804760	3480	4760	20/03/2007	79	11:25:34	-27 42 37.12166	135 28 58.20406	119.819	547600.175	6934793.961	112.61	601307	3965.62	0.052	0.019	-0.024	3965.596	12.946	979109.495	-39.725	34.751	-12.601	-17.574
34804840	3480	4840	20/03/2007	79	11:12:10	-27 42 36.99494	135 29 27.46520	127.946	548401.509	6934794.694	120.711	601307	3964.365	0.046	0.007	-0.022	3964.343	14.199	979108.242	-40.975	37.251	-13.508	-17.231
34804920	3480	4920	20/03/2007	79	11:00:02	-27 42 36.67587	135 29 57.07677	124.613	549212.465	6934801.254	117.351	601307	3965.63	0.04	-0.005	-0.021	3965.609	12.933	979109.508	-39.702	36.215	-13.132	-16.619
34805000	3480	5000	20/03/2007	79	10:48:02	-27 42 36.55914	135 30 25.72130	122.892	549996.914	6934801.642	115.604	601307	3966.57	0.045	-0.017	-0.019	3966.551	11.991	979110.45	-38.758	35.675	-12.936	-16.019
34805080	3480	5080	20/03/2007	79	10:33:29	-27 42 36.61662	135 30 54.79152	120.925	550792.999	6934796.57	113.612	601307	3967.95	0.02	-0.031	-0.017	3967.933	10.609	979111.832	-37.377	35.061	-12.713	-15.03
34805080	3480	5080	22/03/2007	81	16:14:50	-27 42 36.62532	135 30 54.81278	121.081	550793.58	6934796.3	113.768	601307	3968.08	0.038	0.035	-0.081	3967.999	10.593	979111.848	-37.361	35.109	-12.731	-14.983
34805160	3480	5160	20/03/2007	79	10:20:13	-27 42 36.11174	135 31 24.27518	131.099	551600.48	6934808.703	123.759	601307	3967.16	0.047	-0.042	-0.016	3967.144	11.398	979111.043	-38.156	38.192	-13.849	-13.812
34805160	3480	5160	21/03/2007	80	16:05:39	-27 42 36.03436	135 31 24.30623	131.055	551601.341	6934811.08	123.716	601307	3967.235	0.029	0.056	-0.058	3967.177	11.393	979111.048	-38.149	38.179	-13.844	-13.814
34805240	3480	5240	20/03/2007	79	10:07:12	-27 42 36.28750	135 31 53.49293	133.876	552400.592	6934799.869	126.511	601307	3967.93	0.039	-0.054	-0.014	3967.916	10.626	979111.815	-37.387	39.041	-14.157	-12.503
34805240	3480	5240	21/03/2007	80	8:28:24	-27 42 36.30615	135 31 53.47410	133.818	552400.074	6934799.298	126.453	601307	3967.96	0.031	-0.089	-0.005	3967.955	10.615	979111.826	-37.377	39.023	-14.15	-12.504
34805320	3480	5320	20/03/2007	79	9:54:52	-27 42 36.32478	135 32 20.35679	126.351	553136.26	6934795.526	118.963	601307	3970.47	0.034	-0.063	-0.012	3970.458	8.084	979114.357	-34.846	36.712	-13.312	-11.446
34805400	3480	5400	20/03/2007	79	15:31:36	-27 42 36.10122	135 32 51.78016	143.41	553996.828	6934798.61	135.996	601307	3967.37	0.068	0.088	-0.056	3967.314	11.228	979111.213	-37.986	41.968	-15.218	-11.235
34805480	3480	5480	20/03/2007	79	15:20:36	-27 42 35.73326	135 33 20.60943	127.684	554786.377	6934806.398	120.246	601307	3971.845	0.057	0.095	-0.054	3971.791	6.751	979115.69	-33.501	37.108	-13.455	-9.849
34805560	3480	5560	20/03/2007	79	15:10:18	-27 42 36.01489	135 33 50.06576	122.895	555593.009	6934794.067	115.433	601307	3973.765	0.045	0.101	-0.053	3973.712	4.83	979117.611	-31.586	35.623	-12.917	-8.88
34805640	3480	5640	20/03/2007	79	14:56:56	-27 42 35.67039	135 34 19.32452	132.73	556394.32	6934800.974	125.245	601307	3972.625	0.038	0.107	-0.051	3972.574	5.968	979116.473	-32.717	38.651	-14.015	-8.081
34805720	3480	5720	20/03/2007	79	14:43:00	-27 42 35.61383	135 34 48.71247	157.324	557199.129	6934798.951	149.817	601307	3967.655	0.063	0.111	-0.049	3967.606	10.936	979111.505	-37.684	46.234	-16.764	-8.215
34805800	3480	5800	20/03/2007	79	14:28:42	-27 42 35.56789	135 35 17.41258	136.964	557985.1	6934796.638	129.436	601307	3972.825	0.037	0.115	-0.048	3972.777	5.765	979116.676	-32.512	39.944	-14.484	-7.052
34805800	3480	5800	25/03/2007	84	16:13:22	-27 42 35.58519	135 35 17.39984	136.979	557984.749	6934796.107	129.451	601307	3973.03	0.044	-0.034	-0.055	3972.975	5.763	979116.678	-32.51	39.949	-14.486	-7.047
34805880	3480	5880	20/03/2007	79	14:08:04	-27 42 35.18997	135 35 47.26952	128.864	558802.802	6934804.336	121.314	601307	3974.51	0.041	0.117	-0.045	3974.465	4.077	979118.364	-30.816	37.438	-13.575	-6.953
34805960	3480	5960	25/03/2007	84	15:09:10	-27 42 35.37174	135 36 15.74125	126.799	559582.487	6934794.943	119.229	601307	3974.67	0.042	-0.035	-0.048	3974.622	4.116	979118.325	-30.859	36.794	-13.342	-7.406
34806040	3480	6040	25/03/2007	84	15:17:58	-27 42 35.06056	135 36 45.74403	129.041	560404.176	6934800.461	121.451	601307	3972.87	0.04	-0.035	-0.049	3972.821	5.917	979116.524	-32.653	37.48	-13.59	-8.764
34806040	3480	6040	27/03/2007	86	7:35:36	-27 42 35.06814	135 36 45.74100	129.14	560404.092	6934800.228	121.55	403244	3535.974	0.065	0.096	-0.005	3535.969	5.913	979116.528	-32.649	37.51	-13.601	-8.74
34806120	3480	6120	25/03/2007	84	15:24:40	-27 42 34.77526	135 37 15.27575	116.885	561212.963	6934805.191	109.275	601307	3974.31	0.072	-0.035	-0.049	3974.261	4.477	979117.964	-31.207	33.722	-12.228	-9.713
34806200	3480	6200	25/03/2007	84	15:31:04	-27 42 35.04124	135 37 43.64266	120.463	561989.766	6934793.067	112.835	601307	3972.12	0.071	-0.035	-0.05	3972.07	6.668	979115.773	-33.404	34.821	-12.626	-11.209
34806280	3480	6280	25/03/2007	84	15:37:52	-27 42 34.92129	135 38 13.36275	129.062	562803.687	6934792.577	121.414	601307	3969.18	0.065	-0.034	-0.051	3969.129	9.609	979112.832	-36.342	37.468	-13.586	-12.46
34806360	3480	6360	25/03/2007	84	15:46:14	-27 42 34.37568	135 38 42.20710	144.039	563593.696	6934805.256	136.374	601307	3964.03	0.045	-0.034	-0.052	3963.978	14.76	979107.681	-41.482	42.085	-15.26	-14.657
34806440	3480	6440	27/03/2007	86	8:02:54	-27 42 33.26715	135 39 13.36021	160.169	564447.027	6934834.87	152.484	403244	3522.681	0.061	0.1	-0.008	3522.673	19.209	979103.232	-45.908	47.057	-17.063	-15.914
34806520	3480	6520	27/03/2007	86	8:11:04	-27 42 30.20996	135 39 40.47640	150.727	565190.13	6934924.979	143.025	403244	3523.799	0.07	0.101	-0.009	3523.79	18.092	979104.349	-44.728	44.138	-16.004	-16.595
34806560	3480	6560	5/04/2007	95	10:37:18	-27 42 34.41770	135 39 56.24331	147.518	565621.224	6934793.179	139.806	403244	3525.015	0.03	-0.013	0.031	3525.046	17.463	979104.978	-44.186	43.144	-15.644	-16.686
34806600	3480	6600	27/03/2007	86	8:21:13	-27 42 34.00090	135 40 08.71339	172.012	565962.796	6934804.155	164.293	403244	3518.614	0.07	0.101	-0.01	3518.604	23.278	979099.163	-49.992	50.701	-18.384	-17.676
34806600	3480	6600	5/04/2007	95	9:43:40	-27 42 34.00122	135 40 08.71592	171.987	565962.865	6934804.145	164.267	403244	3519.195	0.088	-0.043	0.022	3519.217	23.292	979099.149	-50.006	50.693	-18.381	-17.695
34806640	3480	6640	5/04/2007	95	9:48:35	-27 42 33.72292	135 40 24.16839	174.275	566386.09	6934810.403	166.547	403244	3518.59	0.031	-0.041	0.022	3518.612	23.897	979098.544	-50.606	51.396	-18.637	-17.846
35006560	3500	6560	5/04/2007	95	9:34:10	-27 42 28.11219	135 39 56.54426	134.27	565630.514	6934987.16	126.557	403244	3527.631	0.027	-0.048	0.02	3527.651	14.858	979107.583	-41.451	39.055	-14.162	-16.557
35006600	3500	6600	5/04/2007	95	9:27:51	-27 42 27.87843	135 40 09.49646	174.922	565985.264	6934992.432	167.202	403244	3517.959	0.058	-0.05	0.019	3517.978	24.531	979097.91	-51.119	51.599	-18.71	-18.23
35205920	3520	5920	21/03/2007	80	11:34:45	-27 42 22.08323	135 36 01.77060	127.108	559201.887	6935205.709	119.546	601307	3973.285	0.047	-0.02	-0.027	3973.258	5.312	979117.129	-31.78	36.892	-13.377	-8.266
35206080	3520	6080	27/03/2007	86	7:41:01	-27 42 23.29326	135 36 59.32002	115.689	560777.774	6935160.693	108.089	403244	3537.138	0.044	0.097	-0.005	3537.133	4.749	979117.692	-31.242	33.356	-12.095	-9.981
35206160	3520	6160	27/03/2007	86	7:49:14	-27 42 21.39778	135 37 28.49125	122.81	561576.964	6935214.995	115.19	403244	3533.927	0.069	0.098	-0.006	3533.921	7.961	979114.48	-34.415	35.548	-12.89	-11.757
35206240	3520	6240	27/03/2007	86	7:53:44	-27 42 22.44734	135 37 58.31145	125.628	562393.47	6935178.533	117.989	403244	3532.194	0.084	0.099	-0.007	3532.187	9.695	979112.746	-36.171	36.411	-13.203	-12.962
35206320	3520	6320	25/03/2007	84	15:47:07	-27 42 20.35377	135 38 27.97718	161.635	563206.245	6935238.754	153.977	403244	3522.652	0.065	-0.034	0.045	3522.697	19.119	979103.322	-45.551	47.517	-17.23	-15.264
35206400	3520	6400	25/03/2007	84	15:40:55	-27 42 20.32783	135 38 58.32151	157.488	564037.279	6935235.2	149.811	403244	3522.583	0.057	-0.034	0.045	3522.628	19.188	979103.253	-45.62	46.232	-16.764	-16.152
35206480	3520	6480	25/03/2007	84	15:33:43	-27 42 21.40777	135 39 23.75821	172.444	564733.729	6935198.277	164.752	403244	3518.836	0.062	-0.035	0.044	3518.88	22.936	979099.505	-49.39	50.842	-18.436	-16.983
35206520	3520	6520	5/04/2007	95	8:54:23	-27 42 21.08996	135 39 38.42964	172.499	565135.582	6935205.909	164.798	403244	3518.891	0.044	-0.064	0.013	3518.904	23.605	979098.836	-50.053	50.857	-18.441	-17.637
35206560	3520	6560	25/03/2007	84	15:25:00	-27 42 20.94255	135 39 57.41713	134.138	565655.611	6935207.646	126.425	403244	3526.523	0.059	-0.035	0.043	3526.566	15.25	979107.191	-41.695	39.015	-14.147	-16.827
35206560	3520	6560	5/04/2007	95	8:41:13	-27 42 20.94447	135 39 57.41471	133.972	565655.544	6935207.587	126.258	403244	3527.225	0.065	-0.068	0.011	3527.236	15.273	979107.168	-41.718	38.963	-14.128	-16.883
35206600	3520	6600	5/04/2007	95	9:21:16	-27 42 20.85485	135 40 08.85464	163.387	565968.861	6935208.648	155.667	403244	3519.991	0.034	-0.053	0.018	3520.009	22.5	979099.941	-48.943	48.039	-17.419	-18.323
35206640	3520	6640	25/03/2007	84	15:04:36	-27 42 20.21802	135 40 26.46330	158.317	566451.211	6935225.615	150.587	403244	3520.454	0.07	-0.035	0.041	3520.495	21.321	979101.12	-47.751	46.471	-16.851	-18.13
35206720	3520	6720	25/03/2007	84	14:55:35	-27 42 20.92184	135 40 53.50875	182.29	567191.779	6935199.885	174.544	403244	3515.139	0.06	-0.035	0.04	3515.179	26.637	979095.804	-53.081	53.864	-19.531	-18.748
35206800	3520	6800	25/03/2007	84	14:45:02	-27 42 20.66806	135 41 23.18687	171.59	568004.61	6935203.171	163.827	403244	3517.299	0.087	-0.035	0.039	3517.338	24.478	979097.963	-50.917	50.557	-18.332	-18.692
35406560	3540	6560	5/04/2007	95	9:02:57	-27 42 14.81084	135 39 56.15020	134.229	565621.933	6935396.511	126.516	403244	3526.816	0.034	-0.061	0.015	3526.831	15.678	979106.763	-41.996	39.043	-14.157	-17.11
35604760	3560	4760	20/03/2007	79	11:37:13	-27 42 11.45013	135 28 58.47240	143.749	547610.619	6935583.85	136.533	601307	3959.54	0.096	0.031	-0.026	3959.514	19.028	979103.413	-45.277	42.134	-15.278	-18.421
35604840	3560	4840	20/03/2007	79	11:51:46	-27 42 10.89905	135 29 27.27224	127.275	548399.424	6935597.691	120.033	601307	3963.635	0.049	0.045	-0.027	3963.608	14.934	979107.507	-41.171	37.042	-13.432	-17.561
35604920	3560	4920	20/03/2007	79	12:03:35	-27 42 11.13953	135 29 55.96055	146.661	549185.078	6935587.136	139.393	601307	3959.29	0.052	0.055	-0.029	3959.261	19.281	979103.16	-45.523	43.017	-15.598	-18.105
35605000	3560	5000	20/03/2007	79	12:27:02	-27 42 10.01880	135 30 24.66212	172.814	549971.267	6935618.414	165.521	601307	3953.475	0.048	0.074	-0.032	3953.443	25.099	979097.342	-51.318	51.08	-18.522	-18.76
35605080	3560	5080	20/03/2007	79	12:42:58	-27 42 12.81935	135 30 54.47586	156.262	550787.416	6935528.855	148.943	601307	3958.22	0.029	0.086	-0.034	3958.186	20.356	979102.085	-46.633	45.964	-16.667	-17.336
35605160	3560	5160	21/03/2007	80	8:58:51	-27 42 17.13622	135 31 24.94014	165.848	551621.172	6935392.508	158.504	601307	3957.545	0.047	-0.094	-0.008	3957.537	21.033	979101.408	-47.399	48.914	-17.737	-16.221
35605240	3560	5240	21/03/2007	80	9:17:18	-27 42 12.41850	135 31 53.00376	143.439	552390.363	6935534.384	136.07	601307	3963.855	0.042	-0.093	-0.011	3963.844	14.726	979107.715	-40.995	41.991	-15.226	-14.23
35605320	3560	5320	21/03/2007	80	9:40:15	-27 42 10.00169	135 32 22.82335	146.025	553207.355	6935605.201	138.631	601307	3964.5	0.034	-0.089	-0.013	3964.487	14.083	979108.358	-40.302	42.782	-15.513	-13.033
35605400	3560	5400	21/03/2007	80	9:53:04	-27 42 10.24927	135 32 51.45986	145.595	553991.592	6935594.123	138.177	601307	3966	0.078	-0.084	-0.015	3965.985	12.585	979109.856	-38.809	42.641	-15.462	-11.629
35605480	3560	5480	21/03/2007	80	10:07:57	-27 42 09.47563	135 33 21.04454	156.757	554801.937	6935614.301	149.314	601307	3964.51	0.086	-0.078	-0.017	3964.493	14.077	979108.364	-40.285	46.078	-16.708	-10.915
35605560	3560	5560	21/03/2007	80	10:21:59	-27 42 09.36991	135 33 50.02564	127.37	555595.663	6935613.949	119.904	601307	3972.14	0.039	-0.071	-0.018	3972.122	6.448	979115.993	-32.654	37.002	-13.417	-9.068
35605640	3560	5640	21/03/2007	80	10:31:33	-27 42 09.57240	135 34 19.35516	138.865	556398.887	6935604.016	131.376	601307	3970.055	0.082	-0.066	-0.019	3970.036	8.534	979113.907	-34.744	40.543	-14.701	-8.902
35605720	3560	5720	21/03/2007	80	10:43:43	-27 42 09.71436	135 34 48.69854	156.308	557202.5	6935595.891	148.798	601307	3966.07	0.059	-0.058	-0.021	3966.049	12.521	979109.92	-38.734	45.919	-16.65	-9.465
35605800	3560	5800	21/03/2007	80	10:55:59	-27 42 09.43164	135 35 17.81726	144.106	558000.022	6935600.81	136.575	601307	3968.9	0.102	-0.049	-0.022	3968.878	9.692	979112.749	-35.899	42.147	-15.283	-9.035
35605880	3560	5880	21/03/2007	80	11:06:28	-27 42 09.33991	135 35 47.01163	128.11	558799.589	6935599.79	120.557	601307	3972.145	0.097	-0.042	-0.023	3972.122	6.448	979115.993	-32.653	37.204	-13.49	-8.94
35605960	3560	5960	21/03/2007	80	11:18:58	-27 42 09.04688	135 36 15.82964	130.09	559588.881	6935604.962	122.518	601307	3971.015	0.044	-0.032	-0.025	3970.99	7.58	979114.861	-33.779	37.809	-13.71	-9.68
35606040	3560	6040	21/03/2007	80	11:49:18	-27 42 09.20971	135 36 44.84884	120.416	560383.614	6935596.028	112.825	601307	3971.96	0.068	-0.009	-0.028	3971.932	6.638	979115.803	-32.84	34.818	-12.625	-10.648
35606120	3560	6120	25/03/2007	84	13:36:57	-27 42 08.86335	135 37 15.41452	116.135	561220.781	6935602.497	108.523	403244	3534.521	0.075	-0.033	0.032	3534.553	7.263	979115.178	-33.458	33.49	-12.144	-12.112
35606200	3560	6200	25/03/2007	84	13:30:01	-27 42 09.43258	135 37 43.75266	120.358	561996.799	6935581.046	112.728	403244	3532.531	0.05	-0.033	0.031	3532.562	9.254	979113.187	-35.461	34.788	-12.614	-13.287
35606280	3560	6280	25/03/2007	84	13:23:13	-27 42 08.33257	135 38 13.15932	128.266	562802.346	6935610.758	120.617	403244	3529.534	0.05	-0.032	0.031	3529.565	12.251	979110.19	-38.435	37.222	-13.497	-14.71
35606360	3560	6360	25/03/2007	84	13:16:14	-27 42 07.37216	135 38 41.50487	155.872	563578.813	6935636.273	148.205	403244	3522.459	0.085	-0.032	0.03	3522.489	19.327	979103.114	-45.491	45.736	-16.584	-16.339
35606440	3560	6440	25/03/2007	84	13:09:30	-27 42 08.48648	135 39 10.87390	152.925	564382.978	6935597.75	145.24	403244	3522.608	0.041	-0.031	0.029	3522.637	19.179	979103.262	-45.367	44.821	-16.252	-16.798
35606520	3560	6520	25/03/2007	84	13:01:17	-27 42 07.76289	135 39 40.86621	175.212	565204.513	6935615.635	167.508	403244	3516.625	0.109	-0.03	0.029	3516.654	25.162	979097.279	-51.335	51.693	-18.744	-18.386
35606600	3560	6600	25/03/2007	84	12:38:51	-27 42 09.07123	135 40 10.33277	143.275	566011.312	6935571.019	135.554	403244	3523.22	0.081	-0.027	0.026	3523.246	18.57	979103.871	-44.77	41.832	-15.168	-18.106
36005560	3600	5560	5/04/2007	95	13:13:34	-27 41 56.96954	135 33 49.99133	142.239	555596.469	6935995.517	134.771	403244	3531.724	0.023	0.047	0.058	3531.782	10.727	979111.714	-36.677	41.59	-15.081	-10.167
36006000	3600	6000	21/03/2007	80	12:10:51	-27 41 55.52436	135 36 30.95267	128.74	560005.115	6936019.018	121.157	601307	3969.445	0.041	0.008	-0.031	3969.414	9.156	979113.285	-35.076	37.389	-13.557	-11.244
36006080	3600	6080	23/03/2007	82	14:29:46	-27 41 55.68359	135 37 00.56323	119.654	560816.072	6936010.088	112.052	403244	3533.097	0.067	0.001	-0.014	3533.083	8.59	979113.851	-34.513	34.579	-12.539	-12.473
36006160	3600	6160	23/03/2007	82	14:58:20	-27 41 54.92335	135 37 27.90532	125.227	561565.044	6936029.71	117.607	403244	3530.755	0.054	0.007	-0.015	3530.74	10.933	979111.508	-36.84	36.294	-13.16	-13.707
36006240	3600	6240	23/03/2007	82	15:05:21	-27 41 55.81889	135 37 57.67020	127.801	562380.114	6935997.997	120.161	403244	3529.21	0.066	0.008	-0.015	3529.195	12.478	979109.963	-38.404	37.082	-13.446	-14.768
36006320	3600	6320	23/03/2007	82	15:12:17	-27 41 56.52846	135 38 25.77486	147.727	563149.741	6935972.187	140.069	403244	3524.098	0.048	0.009	-0.015	3524.083	17.59	979104.851	-43.531	43.225	-15.674	-15.979

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
36006400	3600	6400	23/03/2007	82	15:18:31	-27 41 55.67028	135 38 55.29301	142.451	563958.332	6935994.366	134.775	403244	3524.388	0.048	0.01	-0.016	3524.372	17.301	979105.14	-43.224	41.592	-15.081	-16.714
36006400	3600	6400	25/03/2007	84	9:10:46	-27 41 55.67151	135 38 55.28861	142.535	563958.211	6935994.329	134.859	403244	3524.496	0.076	0.037	0.005	3524.501	17.315	979105.126	-43.238	41.617	-15.091	-16.711
36006480	3600	6480	23/03/2007	82	15:24:07	-27 41 55.96810	135 39 24.94034	156.294	564770.276	6935980.901	148.6	403244	3520.615	0.068	0.011	-0.016	3520.599	21.074	979101.367	-47.003	45.858	-16.628	-17.773
36006560	3600	6560	25/03/2007	84	9:44:49	-27 41 55.05879	135 39 54.19479	153.566	565571.659	6936004.585	145.854	403244	3520.257	0.088	0.022	0.009	3520.266	21.55	979100.891	-47.46	45.011	-16.321	-18.771
36006640	3600	6640	25/03/2007	84	12:10:36	-27 41 54.03013	135 40 23.02634	147.447	566361.485	6936031.951	139.718	403244	3520.65	0.099	-0.023	0.023	3520.673	21.143	979101.298	-47.032	43.117	-15.634	-19.549
36006720	3600	6720	25/03/2007	84	12:25:00	-27 41 55.16488	135 40 52.95945	182.631	567181.117	6935992.53	174.884	403244	3511.693	0.072	-0.025	0.025	3511.718	30.098	979092.343	-56.01	53.969	-19.569	-21.611
36404760	3640	4760	22/03/2007	81	9:16:38	-27 41 45.02152	135 28 58.01512	150.603	547601.281	6936397.112	143.381	601307	3957.705	0.078	-0.071	-0.014	3957.691	20.901	979101.54	-46.604	44.247	-16.044	-18.401
36404840	3640	4840	22/03/2007	81	9:06:53	-27 41 45.46412	135 29 27.72112	137.394	548414.835	6936380.279	130.146	601307	3960.74	0.07	-0.068	-0.012	3960.728	17.864	979104.577	-43.576	40.163	-14.563	-17.976
36404920	3640	4920	22/03/2007	81	8:54:17	-27 41 44.79517	135 29 56.36454	142.282	549199.424	6936397.713	135.009	601307	3959.505	0.071	-0.063	-0.01	3959.495	19.097	979103.344	-44.795	41.664	-15.107	-18.239
36405000	3640	5000	22/03/2007	81	8:44:59	-27 41 46.27222	135 30 25.54520	179.191	549998.458	6936349.002	171.893	601307	3951.29	0.066	-0.059	-0.009	3951.281	27.311	979095.13	-53.04	53.046	-19.235	-19.228
36405080	3640	5080	22/03/2007	81	8:36:53	-27 41 44.56296	135 30 54.58727	171.251	550794.101	6936398.298	163.928	601307	3953.74	0.055	-0.056	-0.008	3953.732	24.86	979097.581	-50.554	50.588	-18.343	-18.309
36405160	3640	5160	21/03/2007	80	15:48:35	-27 41 44.57470	135 31 23.63684	176.474	551589.732	6936394.586	169.126	601307	3953.715	0.043	0.065	-0.056	3953.659	24.911	979097.53	-50.605	52.192	-18.925	-17.338
36405160	3640	5160	22/03/2007	81	8:29:34	-27 41 44.57638	135 31 23.62885	176.458	551589.513	6936394.535	169.11	601307	3953.695	0.05	-0.052	-0.006	3953.689	24.903	979097.538	-50.597	52.187	-18.923	-17.333
36405240	3640	5240	21/03/2007	80	15:28:12	-27 41 44.30801	135 31 53.08708	180.961	552396.374	6936399.342	173.588	601307	3953.79	0.046	0.073	-0.054	3953.736	24.834	979097.607	-50.522	53.569	-19.424	-16.377
36405320	3640	5320	21/03/2007	80	15:12:06	-27 41 48.83381	135 32 21.00221	159.971	553160.328	6936256.761	152.575	601307	3959.825	0.068	0.077	-0.052	3959.773	18.797	979103.644	-44.579	47.085	-17.073	-14.567
36405400	3640	5400	21/03/2007	80	14:56:07	-27 41 50.59514	135 32 50.76072	171.798	553975.13	6936198.973	164.378	601307	3958.69	0.045	0.08	-0.05	3958.64	19.93	979102.511	-45.748	50.727	-18.394	-13.415
36405480	3640	5480	21/03/2007	80	14:35:11	-27 41 44.43798	135 33 19.98843	138.612	554776.486	6936384.849	131.168	601307	3967.03	0.041	0.08	-0.048	3966.982	11.588	979110.853	-37.279	40.478	-14.678	-11.478
36405520	3640	5520	5/04/2007	95	12:19:33	-27 41 43.55496	135 33 34.48586	147.508	555173.678	6936410.224	140.053	403244	3529.159	0.029	0.036	0.049	3529.208	13.301	979109.14	-38.974	43.22	-15.672	-11.425
36405560	3640	5560	21/03/2007	80	14:16:03	-27 41 44.27636	135 33 50.12209	189.054	555601.837	6936386.075	181.586	601307	3955.64	0.075	0.078	-0.046	3955.594	22.976	979099.465	-48.664	56.037	-20.319	-12.946
36405560	3640	5560	5/04/2007	95	12:31:01	-27 41 44.19663	135 33 50.05812	189.511	555600.096	6936388.536	182.043	403244	3519.431	0.039	0.04	0.051	3519.482	23.027	979099.414	-48.713	56.178	-20.371	-12.905
36405600	3640	5600	5/04/2007	95	13:08:12	-27 41 44.04181	135 34 04.94256	146.495	556007.787	6936391.428	139.015	403244	3529.807	0.037	0.046	0.057	3529.864	12.645	979109.796	-38.328	42.9	-15.556	-10.984
36405640	3640	5640	21/03/2007	80	14:02:38	-27 41 43.71557	135 34 18.82311	148.373	556388.007	6936399.709	140.883	601307	3965.51	0.114	0.074	-0.044	3965.466	13.104	979109.337	-38.78	43.476	-15.765	-11.068
36405720	3640	5720	21/03/2007	80	13:44:43	-27 41 43.67232	135 34 48.60535	189.868	557203.719	6936397.228	182.357	601307	3956.015	0.072	0.068	-0.042	3955.973	22.597	979099.844	-48.272	56.275	-20.406	-12.403
36405800	3640	5800	21/03/2007	80	13:21:45	-27 41 43.64835	135 35 17.43583	159.963	557993.361	6936394.224	152.431	601307	3963.03	0.078	0.057	-0.039	3962.991	15.579	979106.862	-41.254	47.04	-17.057	-11.271
36405880	3640	5880	21/03/2007	80	13:06:04	-27 41 45.19631	135 35 47.45123	156.564	558815.224	6936342.642	149.01	601307	3963.685	0.086	0.048	-0.037	3963.648	14.922	979107.519	-40.629	45.984	-16.674	-11.318
36405960	3640	5960	21/03/2007	80	12:55:24	-27 41 43.19638	135 36 15.68432	134.364	559588.801	6936400.414	126.791	601307	3967.81	0.031	0.041	-0.036	3967.774	10.796	979111.645	-36.461	39.128	-14.188	-11.522
36406040	3640	6040	21/03/2007	80	12:46:45	-27 41 43.20314	135 36 45.04926	128.125	560393.08	6936396.237	120.532	601307	3967.785	0.095	0.036	-0.035	3967.75	10.82	979111.621	-36.486	37.196	-13.487	-12.777
36406120	3640	6120	23/03/2007	82	14:17:37	-27 41 42.94016	135 37 17.50348	117.197	561282.014	6936399.879	109.583	403244	3531.997	0.053	-0.002	-0.013	3531.984	9.689	979112.752	-35.349	33.817	-12.262	-13.794
36406200	3640	6200	23/03/2007	82	14:10:28	-27 41 43.13916	135 37 44.23583	127.843	562014.16	6936390.042	120.212	403244	3528.878	0.072	-0.004	-0.013	3528.865	12.808	979109.633	-38.472	37.097	-13.452	-14.827
36406280	3640	6280	23/03/2007	82	14:05:11	-27 41 42.52674	135 38 14.39893	143.251	562840.401	6936404.644	135.6	403244	3524.392	0.072	-0.006	-0.013	3524.379	17.294	979105.147	-42.946	41.846	-15.174	-16.273
36406360	3640	6360	23/03/2007	82	13:58:03	-27 41 41.97420	135 38 42.14357	148.502	563600.396	6936417.693	140.835	403244	3522.275	0.042	-0.008	-0.013	3522.262	19.411	979103.03	-45.051	43.462	-15.759	-17.349
36406440	3640	6440	23/03/2007	82	13:49:29	-27 41 42.23974	135 39 11.99619	145.689	564417.996	6936405.216	138.003	403244	3522.458	0.048	-0.011	-0.013	3522.445	19.228	979103.213	-44.874	42.588	-15.442	-17.728
36406520	3640	6520	23/03/2007	82	13:41:34	-27 41 43.57271	135 39 41.43028	175.154	565223.956	6936359.9	167.45	403244	3515.015	0.031	-0.014	-0.012	3515.003	26.67	979095.771	-52.343	51.675	-18.738	-19.406
36406600	3640	6600	23/03/2007	82	13:24:46	-27 41 41.38466	135 40 09.79848	143.613	566001.306	6936423.034	135.892	403244	3521.331	0.059	-0.019	-0.012	3521.319	20.354	979102.087	-45.982	41.936	-15.206	-19.252
36805560	3680	5560	5/04/2007	95	12:58:27	-27 41 31.50463	135 33 50.86554	186.099	555623.997	6936778.972	178.63	403244	3519.222	0.033	0.045	0.055	3519.277	23.232	979099.209	-48.656	55.125	-19.989	-13.52
36806080	3680	6080	23/03/2007	82	11:17:23	-27 41 28.98439	135 36 59.88501	125.414	560801.607	6936831.729	117.811	403244	3529.769	0.061	-0.052	-0.007	3529.762	11.911	979110.53	-37.283	36.356	-13.183	-14.11
36806160	3680	6160	23/03/2007	82	11:26:10	-27 41 29.82073	135 37 28.64658	118.867	561589.26	6936802.029	111.245	403244	3530.634	0.084	-0.052	-0.007	3530.627	11.046	979111.395	-36.435	34.33	-12.448	-14.553
36806240	3680	6240	23/03/2007	82	11:36:54	-27 41 31.18328	135 38 00.22511	152.299	562453.984	6936755.689	144.657	403244	3521.873	0.064	-0.05	-0.008	3521.865	19.808	979102.633	-45.225	44.641	-16.187	-16.771
36806320	3680	6320	23/03/2007	82	11:43:26	-27 41 29.71295	135 38 27.45238	144.083	563199.975	6936797.078	136.424	403244	3522.936	0.063	-0.049	-0.008	3522.928	18.745	979103.696	-44.132	42.1	-15.266	-17.298
36806400	3680	6400	23/03/2007	82	11:49:42	-27 41 29.60823	135 38 56.46822	135.43	563994.741	6936796.142	127.753	403244	3524.551	0.048	-0.048	-0.008	3524.543	17.13	979105.311	-42.515	39.425	-14.296	-17.386
36806480	3680	6480	23/03/2007	82	11:55:57	-27 41 30.35519	135 39 25.53413	144.798	564790.74	6936768.941	137.103	403244	3521.851	0.07	-0.046	-0.009	3521.842	19.831	979102.61	-45.231	42.31	-15.342	-18.263
36806560	3680	6560	23/03/2007	82	12:05:32	-27 41 29.49207	135 39 54.99174	175	565597.733	6936791.173	167.287	403244	3514.248	0.071	-0.044	-0.009	3514.239	27.434	979095.007	-52.817	51.625	-18.719	-19.911
36806640	3680	6640	23/03/2007	82	12:13:38	-27 41 29.18217	135 40 23.91212	140.332	566389.921	6936796.408	132.602	403244	3521.067	0.089	-0.042	-0.009	3521.058	20.615	979101.826	-45.991	40.921	-14.838	-19.908
36806720	3680	6720	23/03/2007	82	12:34:20	-27 41 27.84363	135 40 52.55841	155.285	567174.78	6936833.286	147.538	403244	3516.287	0.056	-0.036	-0.01	3516.277	25.396	979097.045	-50.744	45.53	-16.509	-21.724
37204760	3720	4760	22/03/2007	81	9:35:47	-27 41 19.00144	135 28 57.73424	174.332	547596.723	6937197.783	167.106	601307	3951.575	0.051	-0.074	-0.017	3951.558	27.034	979095.407	-52.2	51.569	-18.699	-19.33
37204840	3720	4840	22/03/2007	81	9:44:27	-27 41 18.62927	135 29 27.10413	146.598	548401.224	6937206.058	139.346	601307	3958.145	0.044	-0.075	-0.018	3958.127	20.465	979101.976	-45.623	43.002	-15.593	-18.214
37204920	3720	4920	22/03/2007	81	9:55:48	-27 41 18.87394	135 29 56.42582	137.924	549204.33	6937195.306	130.647	601307	3960.205	0.058	-0.075	-0.02	3960.185	18.407	979104.034	-43.57	40.318	-14.619	-17.872
37205000	3720	5000	22/03/2007	81	10:10:19	-27 41 18.50649	135 30 25.64760	167.09	550004.777	6937203.347	159.789	601307	3953.675	0.052	-0.075	-0.023	3953.652	24.94	979097.501	-50.096	49.311	-17.88	-18.665
37205080	3720	5080	22/03/2007	81	10:17:26	-27 41 18.28291	135 30 54.57140	164.21	550797.045	6937206.943	156.884	601307	3954.45	0.033	-0.074	-0.024	3954.426	24.166	979098.275	-49.317	48.414	-17.555	-18.458
37205160	3720	5160	22/03/2007	81	10:24:07	-27 41 18.13502	135 31 23.96445	173.709	551602.158	6937208.103	166.358	601307	3952.975	0.034	-0.073	-0.025	3952.95	25.642	979096.799	-50.79	51.338	-18.615	-18.068
37205240	3720	5240	22/03/2007	81	10:35:32	-27 41 18.47564	135 31 52.84848	175.533	552393.265	6937194.238	168.158	601307	3953.41	0.041	-0.071	-0.027	3953.383	25.209	979097.232	-50.364	51.894	-18.817	-17.287
37205320	3720	5320	22/03/2007	81	10:42:48	-27 41 18.07739	135 32 22.13091	170.282	553195.383	6937203.01	162.883	601307	3955.93	0.09	-0.069	-0.028	3955.902	22.69	979099.751	-47.837	50.266	-18.227	-15.798
37205400	3720	5400	22/03/2007	81	10:50:34	-27 41 18.12747	135 32 51.47447	159.953	553999.117	6937197.926	152.531	601307	3959.22	0.057	-0.066	-0.029	3959.191	19.401	979103.04	-44.549	47.071	-17.068	-14.546
37205480	3720	5480	22/03/2007	81	10:58:40	-27 41 17.72918	135 33 20.59145	153.46	554796.706	6937206.613	146.015	601307	3961.415	0.068	-0.063	-0.03	3961.385	17.207	979105.234	-42.347	45.06	-16.339	-13.626
37205560	3720	5560	22/03/2007	81	11:14:53	-27 41 17.69274	135 33 49.76962	168.786	555595.924	6937204.106	161.317	601307	3958.205	0.044	-0.057	-0.033	3958.172	20.42	979102.021	-45.559	49.782	-18.051	-13.828
37205640	3720	5640	22/03/2007	81	11:23:35	-27 41 18.20794	135 34 19.30865	153.508	556404.947	6937184.526	146.017	601307	3961.94	0.062	-0.054	-0.034	3961.906	16.686	979105.755	-41.836	45.061	-16.339	-13.114
37205720	3720	5720	22/03/2007	81	11:35:38	-27 41 17.86596	135 34 48.22224	195.857	557196.962	6937191.349	188.346	601307	3952.505	0.072	-0.048	-0.036	3952.469	26.123	979096.318	-51.266	58.124	-21.076	-14.218
37205800	3720	5800	22/03/2007	81	11:42:35	-27 41 17.39312	135 35 12.61481	191.14	557865.164	6937202.737	183.611	601307	3953.93	0.068	-0.044	-0.037	3953.893	24.699	979097.742	-49.832	56.662	-20.546	-13.716
37205880	3720	5880	22/03/2007	81	11:58:59	-27 41 17.16813	135 35 46.53641	196.558	558794.339	6937205.202	189.004	601307	3952.605	0.055	-0.035	-0.04	3952.565	26.027	979096.414	-51.155	58.327	-21.149	-13.978
37205960	3720	5960	22/03/2007	81	12:09:47	-27 41 17.52448	135 36 15.78652	142.294	559595.473	6937190.337	134.72	601307	3964.41	0.094	-0.029	-0.042	3964.368	14.224	979108.217	-39.36	41.575	-15.075	-12.86
37206040	3720	6040	22/03/2007	81	12:24:43	-27 41 16.97546	135 36 44.86579	128.165	560392.064	6937203.3	120.573	601307	3966.135	0.057	-0.02	-0.044	3966.091	12.501	979109.94	-37.625	37.209	-13.492	-13.909
37206120	3720	6120	23/03/2007	82	11:12:24	-27 41 18.27116	135 37 14.61257	121.383	561206.656	6937159.356	113.77	403244	3529.938	0.086	-0.053	-0.007	3529.931	11.742	979110.699	-36.893	35.109	-12.731	-14.514
37206200	3720	6200	23/03/2007	82	11:03:22	-27 41 16.62076	135 37 43.76916	124.717	562005.541	6937206.093	117.085	403244	3528.268	0.068	-0.053	-0.007	3528.261	13.412	979109.029	-38.529	36.132	-13.102	-15.498
37206280	3720	6280	23/03/2007	82	10:56:55	-27 41 17.31735	135 38 14.00284	136.113	562833.562	6937180.407	128.463	403244	3524.511	0.068	-0.053	-0.006	3524.505	17.168	979105.273	-42.299	39.644	-14.375	-17.031
37206360	3720	6360	23/03/2007	82	10:44:51	-27 41 18.52034	135 38 41.53942	139.536	563587.623	6937139.469	131.868	403244	3523.522	0.084	-0.053	-0.006	3523.516	18.157	979104.284	-43.313	40.694	-14.756	-17.375
37206440	3720	6440	23/03/2007	82	10:36:32	-27 41 14.81459	135 39 10.95934	138.488	564394.067	6937249.256	130.802	403244	3523.193	0.062	-0.052	-0.006	3523.187	18.486	979103.955	-43.566	40.365	-14.637	-17.837
37206520	3720	6520	23/03/2007	82	10:31:04	-27 41 15.32852	135 39 40.41653	153.135	565200.851	6937229.142	145.432	403244	3518.962	0.064	-0.052	-0.006	3518.956	22.717	979099.724	-47.807	44.88	-16.274	-19.201
37206600	3720	6600	23/03/2007	82	10:17:51	-27 41 15.31085	135 40 09.25070	172.175	565990.658	6937225.425	164.455	403244	3513.611	0.049	-0.05	-0.005	3513.606	28.067	979094.374	-53.157	50.751	-18.402	-20.809
37606080	3760	6080	23/03/2007	82	8:42:53	-27 41 04.11268	135 37 00.18108	125.001	560813.544	6937597.003	117.398	403244	3528.632	0.05	-0.011	-0.002	3528.63	13.043	979109.398	-37.902	36.229	-13.137	-14.81
37606160	3760	6160	23/03/2007	82	8:50:03	-27 41 02.95892	135 37 26.41318	121.068	561532.27	6937628.89	113.449	403244	3529.423	0.07	-0.016	-0.002	3529.421	12.252	979110.189	-37.087	35.01	-12.695	-14.771
37606240	3760	6240	23/03/2007	82	9:05:43	-27 41 03.94222	135 37 58.00408	127.797	562397.452	6937594.224	120.156	403244	3526.558	0.083	-0.024	-0.003	3526.555	15.118	979107.323	-39.973	37.08	-13.445	-16.339
37606320	3760	6320	23/03/2007	82	9:10:41	-27 41 03.83240	135 38 27.04735	131.204	563193.021	6937593.495	123.546	403244	3525.229	0.047	-0.027	-0.003	3525.226	16.447	979105.994	-41.3	38.126	-13.825	-16.999
37606400	3760	6400	23/03/2007	82	9:18:06	-27 41 03.37528	135 38 55.99697	133.423	563986.082	6937603.414	125.747	403244	3524.217	0.093	-0.03	-0.003	3524.214	17.459	979104.982	-42.303	38.806	-14.071	-17.568
37606480	3760	6480	23/03/2007	82	9:23:39	-27 41 02.42292	135 39 25.44934	148.698	564792.998	6937628.447	141.004	403244	3519.835	0.097	-0.033	-0.003	3519.832	21.841	979100.6	-46.665	43.514	-15.778	-18.929
37606560	3760	6560	23/03/2007	82	9:31:21	-27 41 04.32644	135 39 54.19097	171.312	565579.976	6937565.654	163.601	403244	3513.834	0.072	-0.036	-0.003	3513.831	27.842	979094.599	-52.705	50.487	-18.307	-20.525
37606640	3760	6640	23/03/2007	82	9:41:15	-27 41 03.01706	135 40 20.72715	180.578	566307.075	6937602.003	172.851	403244	3510.647	0.079	-0.04	-0.004	3510.643	31.03	979091.411	-55.866	53.342	-19.342	-21.866
37606720	3760	6720	23/03/2007	82	9:52:18	-27 41 02.99249	135 40 53.05057	142.301	567192.486	6937597.899	134.555	403244	3518.241	0.074	-0.043	-0.004	3518.237	23.436	979099.005	-48.272	41.524	-15.057	-21.805
38004760	3800	4760	22/03/2007	81	15:16:25	-27 40 53.05522	135 28 57.49289	170.056	547593.237	6937996.176	162.826	601307	3951.395	0.078	0.044	-0.071	3951.324	27.268	979095.173	-51.899	50.248	-18.22	-19.871
38004840	3800	4840	22/03/2007	81	15:10:20	-27 40 52.98950	135 29 27.04400	143.646	548402.717	6937995.004	136.39	601307	3957.81	0.037	0.044	-0.07	3957.74	20.852	979101.589	-45.481	42.09	-15.262	-18.653
38004920	3800	4920	22/03/2007	81	15:03:23	-27 40 52.62500	135 29 56.02252	142.527	549196.551	6938003.034	135.247	601307	3958.18	0.064	0.044	-0.069	3958.111	20.481	979101.96	-45.103	41.737	-15.134	-18.5
38005000	3800	5000	22/03/2007	81	14:57:14	-27 40 52.31858	135 30 24.95024	157.527	549988.988	6938009.232	150.223	601307	3954.65	0.037	0.043	-0.068	3954.582	24.01	979098.431	-48.625	46.359	-16.81	-19.077
38005080	3800	5080	22/03/2007	81	14:51:23	-27 40 52.34730	135 30 54.39534	156.8	550795.556	6938005.006	149.471	601307	3954.81	0.047	0.043	-0.067	3954.743	23.849	979098.592	-48.465	46.127	-16.726	-19.064
38005160	3800	5160	22/03/2007	81	14:43:02	-27 40 52.55329	135 31 23.71061	161.303	551598.545	6937995.287	153.95	601307	3953.955	0.04	0.041	-0.066	3953.889	24.703	979097.738	-49.323	47.509	-17.227	-19.041
38005240	3800	5240	22/03/2007	81	14:28:37	-27 40 52.30954	135 31 53.14805	160.739	552404.94	6937999.34	153.362	601307	3954.71	0.068	0.038	-0.064	3954.646	23.946	979098.495	-48.561	47.328	-17.161	-18.395
38005240	3800	5240	23/03/2007	82	15:18:38	-27 40 52.29925	135 31 53.13891	160.73	552404.691	6937999.657	153.352	601307	3954.74	0.051	0.01	-0.052	3954.688	23.95	979098.491	-48.565	47.324	-17.16	-18.401
38005320	3800	5320	22/03/2007	81	14:21:33	-27 40 52.26692	135 32 22.13016	157.941	553198.837	6937997.204	150.541	601307	3957.065	0.103	0.036	-0.063	3957.002	21.59	979100.851	-46.204	46.457	-16.845	-16.593
38005400	3800	5400	22/03/2007	81	14:08:05	-27 40 52.39511	135 32 51.03784	155.763	553990.672	6937989.77	148.34	601307	3959.21	0.039	0.031	-0.06	3959.15	19.442	979102.999	-44.059	45.778	-16.599	-14.881
38005480	3800	5480	22/03/2007	81	14:00:26	-27 40 52.22339	135 33 20.22003	160.619	554790.069	6937991.479	153.173	601307	3958.38	0.085	0.029	-0.059	3958.321	20.271	979102.17	-44.884	47.269	-17.14	-14.755

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
38005560	3800	5560	22/03/2007	81	13:52:37	-27 40 51.57531	135 33 49.69473	173.55	555597.547	6938007.757	166.081	601307	3955.21	0.034	0.025	-0.058	3955.152	23.44	979099.001	-48.04	51.253	-18.584	-15.372
38005640	3800	5640	22/03/2007	81	13:45:32	-27 40 52.16597	135 34 19.12995	188.94	556403.769	6937985.869	181.45	601307	3951.56	0.034	0.022	-0.057	3951.503	27.089	979095.352	-51.701	55.995	-20.304	-16.01
38005720	3800	5720	22/03/2007	81	13:37:37	-27 40 51.44306	135 34 47.92323	186.929	557192.596	6938004.43	179.417	601307	3952.115	0.057	0.019	-0.056	3952.059	26.533	979095.908	-51.13	55.368	-20.077	-15.839
38005800	3800	5800	22/03/2007	81	13:29:11	-27 40 51.56508	135 35 17.26545	191.244	557996.339	6937996.869	183.711	601307	3951.575	0.043	0.015	-0.054	3951.521	27.071	979095.37	-51.671	56.693	-20.557	-15.535
38005880	3800	5880	22/03/2007	81	13:22:04	-27 40 51.40472	135 35 41.80191	196.953	558668.482	6937998.58	189.403	601307	3949.975	0.064	0.011	-0.053	3949.922	28.67	979093.771	-53.267	58.45	-21.194	-16.011
38005960	3800	5960	22/03/2007	81	13:04:48	-27 40 50.93681	135 36 15.50254	137.477	559591.703	6938008.489	129.904	601307	3963.975	0.066	0.002	-0.05	3963.925	14.667	979107.774	-39.254	40.088	-14.536	-13.702
38006040	3800	6040	22/03/2007	81	12:57:53	-27 40 51.08197	135 36 44.76962	131.957	560393.387	6938000.068	124.364	601307	3963.75	0.075	-0.002	-0.049	3963.701	14.891	979107.55	-39.481	38.379	-13.916	-15.019
38006120	3800	6120	22/03/2007	81	14:04:11	-27 40 50.11350	135 37 13.51665	122.775	561180.997	6938025.932	115.164	403244	3528.497	0.074	0.03	-0.034	3528.463	13.156	979109.285	-37.726	35.54	-12.887	-15.073
38006120	3800	6120	23/03/2007	82	8:34:42	-27 40 50.11678	135 37 13.52924	122.866	561181.342	6938025.83	115.254	403244	3528.535	0.059	-0.006	-0.001	3528.534	13.139	979109.302	-37.709	35.567	-12.897	-15.039
38006200	3800	6200	22/03/2007	81	14:16:48	-27 40 48.32133	135 37 42.24629	122.668	561968.265	6938077.094	115.038	403244	3527.745	0.058	0.035	-0.035	3527.71	13.909	979108.532	-38.442	35.501	-12.873	-15.814
38006280	3800	6280	22/03/2007	81	14:33:53	-27 40 50.12155	135 38 13.00864	126.684	562810.652	6938017.378	119.034	403244	3525.983	0.079	0.039	-0.037	3525.946	15.673	979106.768	-40.243	36.734	-13.32	-16.829
38006360	3800	6360	22/03/2007	81	14:40:35	-27 40 50.85134	135 38 40.93957	132.411	563575.644	6937990.946	124.744	403244	3524.15	0.086	0.041	-0.038	3524.112	17.507	979104.934	-42.092	38.496	-13.959	-17.555
38006440	3800	6440	22/03/2007	81	14:47:22	-27 40 50.74743	135 39 10.68374	144.914	564390.439	6937989.857	137.23	403244	3520.569	0.039	0.042	-0.038	3520.531	21.088	979101.353	-45.671	42.349	-15.356	-18.678
38006520	3800	6520	22/03/2007	81	14:54:50	-27 40 52.30212	135 39 38.27012	161.511	565145.854	6937937.994	153.81	403244	3515.949	0.043	0.043	-0.039	3515.91	25.709	979096.732	-50.324	47.466	-17.211	-20.07
38006600	3800	6600	22/03/2007	81	15:04:07	-27 40 50.86866	135 40 08.14828	173.434	565964.54	6937977.691	165.714	403244	3512.103	0.091	0.044	-0.04	3512.063	29.556	979092.885	-54.142	51.139	-18.543	-21.546
38404480	3840	4480	23/03/2007	82	9:55:58	-27 40 40.02914	135 27 15.45207	147.486	544799.586	6938407.605	140.337	601307	3954.54	0.06	-0.044	-0.015	3954.525	24.113	979098.328	-48.475	43.308	-15.704	-20.871
38404560	3840	4560	23/03/2007	82	9:48:30	-27 40 40.04319	135 27 44.32968	166.804	545590.632	6938404.234	159.632	601307	3950.4	0.09	-0.042	-0.014	3950.386	28.252	979094.189	-52.614	49.262	-17.863	-21.215
38404640	3840	4640	23/03/2007	82	9:40:52	-27 40 40.25924	135 28 13.57184	146.754	546391.642	6938394.557	139.558	601307	3955.14	0.157	-0.04	-0.013	3955.127	23.511	979098.93	-47.878	43.068	-15.616	-20.427
38404720	3840	4720	23/03/2007	82	9:32:35	-27 40 40.07101	135 28 42.97876	151.209	547197.212	6938397.25	143.988	601307	3954.78	0.053	-0.036	-0.012	3954.768	23.87	979098.571	-48.233	44.435	-16.112	-19.91
38404800	3840	4800	23/03/2007	82	9:23:18	-27 40 39.78214	135 29 12.08604	162.889	547994.588	6938403.019	155.644	601307	3952.685	0.068	-0.032	-0.011	3952.674	25.964	979096.477	-50.321	48.032	-17.417	-19.706
38404880	3840	4880	23/03/2007	82	9:11:54	-27 40 39.88695	135 29 41.51179	146.869	548800.641	6938396.587	139.599	601307	3956.54	0.062	-0.027	-0.01	3956.53	22.108	979100.333	-46.467	43.08	-15.621	-19.008
38406080	3840	6080	22/03/2007	81	13:58:19	-27 40 37.90427	135 36 59.42629	132.231	560796.9	6938403.552	124.628	403244	3525.236	0.043	0.028	-0.034	3525.202	16.417	979106.024	-40.735	38.46	-13.946	-16.221
38406160	3840	6160	22/03/2007	81	13:49:40	-27 40 36.79959	135 37 30.08373	124.578	561636.893	6938433.317	116.956	403244	3526.731	0.074	0.025	-0.033	3526.698	14.921	979107.52	-39.216	36.093	-13.087	-16.211
38406240	3840	6240	22/03/2007	81	13:43:23	-27 40 38.08391	135 37 57.57532	125.112	562389.789	6938389.958	117.472	403244	3526.007	0.048	0.021	-0.032	3525.975	15.644	979106.797	-39.966	36.252	-13.145	-16.859
38406320	3840	6320	22/03/2007	81	13:27:50	-27 40 38.49724	135 38 26.90601	128.634	563193.2	6938373.092	120.976	403244	3524.577	0.05	0.014	-0.031	3524.546	17.073	979105.368	-41.403	37.333	-13.537	-17.607
38406400	3840	6400	22/03/2007	81	13:22:02	-27 40 38.10554	135 38 55.18652	133.599	563967.971	6938381.095	125.923	403244	3522.775	0.038	0.011	-0.03	3522.745	18.874	979103.567	-43.196	38.86	-14.091	-18.427
38406480	3840	6480	22/03/2007	81	12:38:10	-27 40 37.23003	135 39 25.83830	141.221	564807.783	6938403.591	133.527	403244	3520.214	0.046	-0.013	-0.026	3520.188	21.431	979101.01	-45.735	41.206	-14.942	-19.47
38406560	3840	6560	22/03/2007	81	12:29:08	-27 40 37.81497	135 39 55.39510	171.144	565617.361	6938381.251	163.432	403244	3512.258	0.071	-0.018	-0.026	3512.232	29.387	979093.054	-53.703	50.435	-18.288	-21.556
38406640	3840	6640	22/03/2007	81	12:22:01	-27 40 37.02010	135 40 19.75331	165.979	566284.759	6938402.092	158.253	403244	3512.482	0.054	-0.022	-0.025	3512.457	29.162	979093.279	-53.462	48.837	-17.708	-22.333
38406720	3840	6720	22/03/2007	81	12:13:07	-27 40 37.11507	135 40 51.93055	151.374	567166.204	6938394.334	143.628	403244	3514.917	0.062	-0.027	-0.024	3514.893	26.726	979095.715	-51.028	44.324	-16.072	-22.776
38804760	3880	4760	22/03/2007	81	15:22:37	-27 40 27.09849	135 28 57.61010	163.122	547599.573	6938794.853	155.887	601307	3951.8	0.065	0.044	-0.072	3951.728	26.864	979095.577	-50.959	48.107	-17.444	-20.296
38804840	3880	4840	22/03/2007	81	15:28:24	-27 40 26.41268	135 29 27.21836	154.234	548410.748	6938812.755	146.974	601307	3954.025	0.053	0.044	-0.073	3953.952	24.64	979097.801	-48.721	45.356	-16.446	-19.811
38804920	3880	4920	22/03/2007	81	15:33:50	-27 40 26.44563	135 29 56.13235	152.155	549202.818	6938808.564	144.87	601307	3954.745	0.038	0.043	-0.074	3954.671	23.921	979098.52	-48.003	44.707	-16.211	-19.507
38805000	3880	5000	22/03/2007	81	15:39:25	-27 40 26.65893	135 30 25.54905	154.817	550008.637	6938798.715	147.509	601307	3953.995	0.048	0.043	-0.075	3953.92	24.672	979097.769	-48.758	45.521	-16.506	-19.743
38805080	3880	5080	22/03/2007	81	15:44:53	-27 40 26.74839	135 30 54.87478	154.821	550811.98	6938792.633	147.489	601307	3953.635	0.04	0.042	-0.076	3953.559	25.033	979097.408	-49.121	45.515	-16.504	-20.11
38805160	3880	5160	22/03/2007	81	15:50:34	-27 40 26.30530	135 31 23.67865	156.575	551601.096	6938802.946	149.22	601307	3952.805	0.048	0.041	-0.077	3952.728	25.864	979096.577	-49.943	46.049	-16.698	-20.591
38805160	3880	5160	23/03/2007	82	8:56:30	-27 40 26.31646	135 31 23.68981	156.559	551601.4	6938802.601	149.203	601307	3952.78	0.071	-0.019	-0.008	3952.772	25.866	979096.575	-49.945	46.044	-16.696	-20.597
38805240	3880	5240	23/03/2007	82	15:09:41	-27 40 26.58837	135 31 52.62617	150.689	552394.054	6938790.846	143.31	601307	3954.175	0.044	0.009	-0.051	3954.124	24.514	979097.927	-48.599	44.225	-16.036	-20.409
38805320	3880	5320	23/03/2007	82	15:03:43	-27 40 26.29837	135 32 22.12217	154.38	553202.113	6938796.263	146.977	601307	3955.115	0.08	0.008	-0.051	3955.064	23.574	979098.867	-47.653	45.357	-16.447	-18.742
38805400	3880	5400	23/03/2007	82	14:56:36	-27 40 25.54318	135 32 51.00731	147.704	553993.504	6938816.014	140.28	601307	3959.125	0.102	0.007	-0.05	3959.075	19.563	979102.878	-43.626	43.29	-15.697	-16.033
38805480	3880	5480	23/03/2007	82	14:51:24	-27 40 26.08511	135 33 20.21940	157.801	554793.675	6938795.761	150.354	601307	3957.495	0.088	0.006	-0.049	3957.446	21.192	979101.249	-45.266	46.399	-16.825	-15.692
38805560	3880	5560	23/03/2007	82	14:42:24	-27 40 25.95294	135 33 49.35053	158.571	555591.721	6938796.207	151.101	601307	3957.14	0.073	0.004	-0.048	3957.092	21.546	979100.895	-45.617	46.63	-16.908	-15.896
38805640	3880	5640	23/03/2007	82	14:33:18	-27 40 25.88120	135 34 16.07866	187.744	556323.932	6938795.047	180.255	601307	3949.77	0.072	0.002	-0.047	3949.723	28.915	979093.526	-52.985	55.627	-20.17	-17.529
38805720	3880	5720	23/03/2007	82	14:25:05	-27 40 25.59922	135 34 47.54003	171.692	557185.837	6938799.703	164.181	601307	3953.19	0.053	0	-0.046	3953.144	25.494	979096.947	-49.558	50.666	-18.372	-17.264
38805800	3880	5800	23/03/2007	82	14:18:41	-27 40 25.99340	135 35 17.47686	179.003	558005.882	6938783.691	171.47	601307	3951.71	0.07	-0.002	-0.045	3951.665	26.973	979095.468	-51.045	52.916	-19.187	-17.317
38805880	3880	5880	23/03/2007	82	14:08:25	-27 40 27.68796	135 35 45.31121	155.719	558768.137	6938727.889	148.167	601307	3956.89	0.058	-0.005	-0.044	3956.846	21.792	979100.649	-45.899	45.724	-16.58	-16.755
38805960	3880	5960	23/03/2007	82	13:46:01	-27 40 24.97577	135 36 14.71874	149.829	559574.145	6938807.426	142.257	601307	3957.99	0.079	-0.012	-0.042	3957.948	20.69	979101.751	-44.741	43.901	-15.919	-16.759
38806040	3880	6040	23/03/2007	82	13:29:58	-27 40 25.33641	135 36 44.77643	135.94	560397.507	6938792.269	128.348	601307	3960.36	0.089	-0.017	-0.04	3960.32	18.318	979104.123	-42.377	39.608	-14.362	-17.131
38806120	3880	6120	22/03/2007	81	11:12:34	-27 40 24.14315	135 37 12.69100	126.635	561162.398	6938825.166	119.025	403244	3525.111	0.033	-0.058	-0.019	3525.092	16.527	979105.914	-40.561	36.731	-13.319	-17.149
38806200	3880	6200	22/03/2007	81	11:19:58	-27 40 24.96507	135 37 42.52545	126.042	561979.574	6938795.739	118.412	403244	3524.772	0.07	-0.055	-0.019	3524.753	16.866	979105.575	-40.917	36.542	-13.25	-17.625
38806280	3880	6280	22/03/2007	81	11:25:05	-27 40 24.74439	135 38 12.11399	128.163	562790.176	6938798.373	120.514	403244	3523.94	0.069	-0.053	-0.02	3523.92	17.699	979104.742	-41.746	37.191	-13.485	-18.04
38806360	3880	6360	22/03/2007	81	11:33:15	-27 40 24.69953	135 38 41.33147	131.191	563590.586	6938795.595	123.524	403244	3522.673	0.089	-0.049	-0.02	3522.653	18.966	979103.475	-43.012	38.12	-13.822	-18.714
38806440	3880	6440	22/03/2007	81	11:42:01	-27 40 24.83073	135 39 10.22722	135.606	564382.155	6938787.395	127.922	403244	3521.136	0.052	-0.044	-0.021	3521.115	20.504	979101.937	-44.552	39.477	-14.314	-19.39
38806520	3880	6520	22/03/2007	81	11:53:07	-27 40 24.24591	135 39 39.73853	172.435	565190.704	6938801.085	164.733	403244	3511.688	0.049	-0.039	-0.022	3511.666	29.953	979092.488	-53.989	50.837	-18.434	-21.586
38806600	3880	6600	22/03/2007	81	12:01:15	-27 40 24.45199	135 40 09.12973	161.847	565995.835	6938790.403	154.127	403244	3513.193	0.058	-0.034	-0.023	3513.17	28.449	979093.992	-52.489	47.564	-17.247	-22.173
39204480	3920	4480	23/03/2007	82	10:05:09	-27 40 14.28175	135 27 15.40630	159.117	544801.25	6939199.856	151.963	601307	3950.45	0.092	-0.047	-0.016	3950.434	28.204	979094.237	-52.035	46.896	-17.005	-22.143
39204560	3920	4560	23/03/2007	82	10:23:36	-27 40 14.19832	135 27 44.47128	153.046	545597.492	6939199.466	145.868	601307	3952.115	0.105	-0.05	-0.018	3952.097	26.541	979095.9	-50.37	45.015	-16.323	-21.678
39204640	3920	4640	23/03/2007	82	10:29:38	-27 40 13.92169	135 28 13.64591	154.094	546396.762	6939204.956	146.893	601307	3952.13	0.076	-0.034	-0.019	3952.111	26.527	979095.914	-50.35	45.331	-16.437	-21.456
39204720	3920	4720	23/03/2007	82	10:35:08	-27 40 14.11685	135 28 42.73808	153.857	547193.717	6939195.886	146.632	601307	3952.78	0.039	-0.052	-0.02	3952.76	25.878	979096.563	-49.705	45.251	-16.408	-20.863
39204800	3920	4800	23/03/2007	82	10:41:07	-27 40 13.76871	135 29 12.62499	156.139	548012.51	6939203.395	148.889	601307	3952.885	0.086	-0.053	-0.02	3952.865	25.773	979096.668	-49.593	45.947	-16.661	-20.307
39204880	3920	4880	23/03/2007	82	10:47:42	-27 40 13.73235	135 29 41.25116	152.602	548796.729	6939201.394	145.329	601307	3953.76	0.067	-0.053	-0.021	3953.739	24.899	979097.542	-48.718	44.849	-16.262	-20.132
39206080	3920	6080	22/03/2007	81	11:07:17	-27 40 12.02708	135 37 00.22841	133.499	560822.854	6939199.694	125.897	403244	3522.329	0.08	-0.06	-0.018	3522.311	19.308	979103.133	-43.092	38.852	-14.088	-18.328
39206160	3920	6160	22/03/2007	81	10:58:06	-27 40 11.65765	135 37 28.69656	129.638	561602.81	6939207.138	122.016	403244	3522.711	0.052	-0.064	-0.017	3522.694	18.925	979103.516	-42.702	37.654	-13.654	-18.701
39206240	3920	6240	22/03/2007	81	10:51:57	-27 40 12.63673	135 37 57.57036	133.192	562393.669	6939172.981	125.552	403244	3521.754	0.067	-0.066	-0.017	3521.737	19.882	979102.559	-43.679	38.745	-14.049	-18.983
39206320	3920	6320	22/03/2007	81	10:45:43	-27 40 12.48588	135 38 26.14147	130.518	563176.412	6939173.584	122.86	403244	3522.02	0.068	-0.068	-0.016	3522.004	19.615	979102.826	-43.409	37.915	-13.748	-19.242
39206400	3920	6400	22/03/2007	81	10:40:35	-27 40 11.81230	135 38 55.21566	137.51	563973.024	6939190.148	129.835	403244	3520.006	0.053	-0.069	-0.016	3519.99	21.629	979100.812	-45.409	40.067	-14.528	-19.87
39206480	3920	6480	22/03/2007	81	10:34:01	-27 40 11.81503	135 39 24.71644	144.33	564781.215	6939185.788	136.637	403244	3517.655	0.042	-0.071	-0.015	3517.64	23.979	979098.462	-47.759	42.166	-15.29	-20.882
39206560	3920	6560	22/03/2007	81	10:23:13	-27 40 10.69551	135 39 54.79368	155.674	565605.385	6939215.822	147.963	403244	3514.251	0.059	-0.073	-0.014	3514.237	27.382	979095.059	-51.139	45.661	-16.557	-22.034
39206640	3920	6640	22/03/2007	81	10:12:32	-27 40 11.90634	135 40 25.53564	166.191	566447.38	6939173.994	158.462	403244	3511.182	0.04	-0.075	-0.013	3511.169	30.45	979091.991	-54.232	48.901	-17.732	-23.062
39206720	3920	6720	22/03/2007	81	10:05:05	-27 40 10.95407	135 40 52.12192	156.899	567175.89	6939199.296	149.154	403244	3512.669	0.032	-0.075	-0.012	3512.657	28.962	979093.479	-52.724	46.029	-16.69	-23.386
39604760	3960	4760	23/03/2007	82	10:56:43	-27 40 01.26658	135 28 57.87051	151.456	547609.817	6939589.674	144.216	601307	3952.73	0.046	-0.053	-0.022	3952.708	25.93	979096.511	-49.492	44.505	-16.138	-21.125
39604840	3960	4840	23/03/2007	82	11:03:09	-27 40 00.79464	135 29 27.05492	149.783	548409.407	6939601.041	142.519	601307	3953.61	0.117	-0.053	-0.023	3953.587	25.051	979097.39	-48.604	43.981	-15.948	-20.57
39604920	3960	4920	23/03/2007	82	11:10:51	-27 40 00.75772	135 29 55.83290	147.936	549197.811	6939599.016	140.648	601307	3954.09	0.072	-0.053	-0.024	3954.066	24.572	979097.869	-48.124	43.404	-15.738	-20.458
39605000	3960	5000	23/03/2007	82	11:16:25	-27 40 00.66954	135 30 25.23269	146.881	550003.257	6939598.446	139.57	601307	3953.81	0.067	-0.053	-0.024	3953.786	24.852	979097.589	-48.402	43.071	-15.618	-20.948
39605080	3960	5080	23/03/2007	82	11:22:53	-27 40 00.61568	135 30 54.02918	151.654	550792.172	6939596.836	144.32	601307	3951.94	0.138	-0.052	-0.025	3951.915	26.723	979095.718	-50.272	44.537	-16.149	-21.884
39605160	3960	5160	23/03/2007	82	11:28:03	-27 40 00.78469	135 31 23.44158	145.269	551597.931	6939588.246	137.911	601307	3952.47	0.081	-0.051	-0.026	3952.444	26.194	979096.247	-49.746	42.559	-15.432	-22.619
39605240	3960	5240	23/03/2007	82	11:40:19	-27 40 00.57308	135 31 52.46289	144.602	552393.027	6939591.36	137.221	601307	3952.59	0.094	-0.05	-0.027	3952.563	26.075	979096.366	-49.623	42.346	-15.355	-22.632
39605320	3960	5320	23/03/2007	82	11:48:06	-27 40 00.17086	135 32 22.02497	149.696	553202.965	6939600.223	142.293	601307	3952.55	0.11	-0.048	-0.028	3952.522	26.116	979096.325	-49.656	43.912	-15.923	-21.667
39605400	3960	5400	23/03/2007	82	11:54:49	-27 40 00.06048	135 32 50.99725	141.987	553996.708	6939600.123	134.562	601307	3957.045	0.063	-0.047	-0.029	3957.016	21.622	979100.819	-45.159	41.526	-15.057	-18.691
39605480	3960	5480	23/03/2007	82	12:01:49	-27 40 00.05513	135 33 20.15524	148.438	554795.524	6939596.717	140.99	601307	3957.1	0.097	-0.045	-0.03	3957.07	21.568	979100.873	-45.105	43.51	-15.777	-17.372
39605560	3960	5560	23/03/2007	82	12:08:14	-27 39 59.69351	135 33 49.45804	156.577	555598.358	6939604.203	149.107	601307	3955.385	0.119	-0.044	-0.03	3955.355	23.283	979099.158	-46.813	46.014	-16.685	-17.483
39605640	3960	5640	23/03/2007	82	12:19:05	-27 39 59.52076	135 34 18.81188	154.818	556402.566	6939605.818	147.327	601307	3955.455	0.047	-0.041	-0.032	3955.423	23.215	979099.226	-46.741	45.465	-16.486	-17.762
39605720	3960	5720	23/03/2007	82	12:27:48	-27 39 59.41562	135 34 47.54403	164.647	557189.734	6939605.38	157.135	601307	3952.605	0.072	-0.038	-0.033	3952.572	26.066	979096.375	-49.59	48.492	-17.583	-18.682
39605800	3960	5800	23/03/2007	82	12:37:39	-27 39 59.30857	135 35 17.19999	180.507	558002.212	6939604.828	172.974	601307	3948.895	0.066	-0.035	-0.034	3948.861	29.777	979092.664	-53.299	53.38	-19.356	-19.275
39605880	3960	5880	23/03/2007	82	12:51:41	-27 39 57.94168	135 35 46.26655	165.414	558798.73	6939643.066	157.861	601307	3952.065	0.055	-0.03	-0.035	3952.03	26.608	979095.833	-50.102	48.716	-17.665	-19.05
39605960	3960	5960	23/03/2007	82	12:57:37	-27 39 59.10966	135 36 15.41842	164.092	559597.211	6939603.242	156.519	601307	3952.575	0.073	-0.029	-0.036	3952.539	26.099	979096.342	-49.617	48.302	-17.514	-18.829
39606040	3960	6040	23/03/2007	82	13:04:51	-27 39 59.33307	135 36 44.35380	136.819	560389.9	6939592.46	129.227	601307	3957.56	0.08	-0.026	-0.037	3957.523	21.115	979101.326	-44.637	39.879	-14.46	-19.218
39606120	3960	6120	22/03/2007	81	8:55:35	-27 39 58.76302	135 37 13.91204	130.76	561199.776	6939605.955	123.149	403244	3521.235	0.059	-0.064	-0.006	3521.229	20.39	979102.051	-43.901	38.004	-13.78	-19.677

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
39606200	3960	6200	22/03/2007	81	9:10:27	-27 39 59.19340	135 37 42.96730	133.689	561995.719	6939588.683	126.058	403244	3520.231	0.1	-0.069	-0.007	3520.224	21.395	979101.046	-44.915	38.901	-14.106	-20.119
39606280	3960	6280	22/03/2007	81	9:20:57	-27 39 58.74877	135 38 12.82584	141.247	562813.806	6939598.17	133.597	403244	3518.324	0.073	-0.072	-0.008	3518.316	23.303	979099.138	-46.813	41.228	-14.949	-20.535
39606360	3960	6360	22/03/2007	81	9:31:43	-27 39 58.53923	135 38 41.09464	134.77	563588.305	6939600.595	127.103	403244	3519.634	0.055	-0.074	-0.009	3519.625	21.994	979100.447	-45.5	39.224	-14.223	-20.499
39606440	3960	6440	22/03/2007	81	9:37:10	-27 39 57.97245	135 39 11.16846	154.12	564412.314	6939613.702	146.436	403244	3514.701	0.061	-0.074	-0.01	3514.691	26.928	979095.513	-50.422	45.19	-16.386	-21.618
39606520	3960	6520	22/03/2007	81	9:45:14	-27 39 57.97579	135 39 39.08015	144.887	565176.998	6939609.528	137.186	403244	3516.269	0.058	-0.075	-0.011	3516.258	25.361	979097.08	-48.855	42.336	-15.351	-21.871
39606600	3960	6600	22/03/2007	81	9:52:52	-27 39 59.22870	135 40 08.31487	158.184	565977.721	6939566.659	150.465	403244	3512.805	0.055	-0.075	-0.011	3512.794	28.825	979093.616	-52.345	46.433	-16.837	-22.749
52403240	5240	3240	20/03/2007	79	14:56:42	-27 43 54.44900	135 31 53.77765	106.277	552398.009	6932394.776	98.927	403244	3540.072	0.026	0.107	-0.076	3539.996	1.416	979121.025	-29.792	30.529	-11.07	-10.333
52403320	5240	3320	21/03/2007	80	11:17:34	-27 43 28.34149	135 31 53.70981	111.878	552399.619	6933198.123	104.524	403244	3538.274	0.052	-0.034	-0.018	3538.256	3.262	979119.179	-31.098	32.256	-11.696	-10.539
52403400	5240	3400	21/03/2007	80	13:45:05	-27 43 02.29090	135 31 53.63526	117.205	552401.038	6933999.719	109.846	403244	3536.54	0.051	0.068	-0.031	3536.509	5.009	979117.432	-32.307	33.898	-12.292	-10.701
52403640	5240	3640	21/03/2007	80	15:35:16	-27 41 44.32758	135 31 53.25966	180.899	552401.099	6936398.719	173.526	601307	3953.815	0.029	0.071	-0.055	3953.76	24.81	979097.631	-50.499	53.55	-19.418	-16.366

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
5101	0	5101	20/08/2006	233	12:23:26	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.01	0.046	0.008	0	2872.01	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	20/08/2006	233	12:29:45	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.009	0.051	0.007	0.001	2872.01	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	20/08/2006	233	15:15:01	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.012	0.051	-0.058	-0.003	2872.009	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	20/08/2006	233	15:18:53	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.008	0.024	-0.059	0.004	2872.012	0	979133.638	-24.139	38.556	-13.981	0.436
21606560	2160	6560	20/08/2006	233	13:19:16	-27 49 43.05133	135 39 57.72042	111.283	565590.239	6921603.466	103.613	475	2877.23	0.044	-0.01	-0.001	2877.229	-5.22	979138.858	-19.169	31.975	-11.594	1.212
21606640	2160	6640	20/08/2006	233	13:33:20	-27 49 43.13610	135 40 27.47713	123.389	566404.248	6921596.413	115.696	475	2875.692	0.032	-0.015	-0.001	2875.691	-3.682	979137.32	-20.709	35.704	-12.946	2.049
21606720	2160	6720	20/08/2006	233	13:44:25	-27 49 42.85709	135 40 56.55571	104.298	567199.769	6921600.602	96.583	475	2878.857	0.051	-0.02	-0.001	2878.856	-6.847	979140.485	-17.538	29.806	-10.808	1.46
21606800	2160	6800	20/08/2006	233	13:52:46	-27 49 42.82214	135 41 25.93343	100.254	568003.432	6921597.182	92.516	475	2881.193	0.106	-0.024	-0.002	2881.191	-9.182	979142.82	-15.202	28.55	-10.353	2.996
22406480	2240	6480	20/08/2006	233	14:52:00	-27 49 17.46008	135 39 28.32326	124.249	564790.273	6922395.278	116.6	475	2870.797	0.03	-0.05	-0.003	2870.794	1.215	979132.423	-25.074	35.983	-13.048	-2.139
22406560	2240	6560	20/08/2006	233	14:44:40	-27 49 17.15060	135 39 57.79168	116.579	565596.513	6922400.454	108.905	475	2873.951	0.035	-0.047	-0.002	2873.949	-1.94	979135.578	-21.913	33.608	-12.186	-0.491
22406640	2240	6640	20/08/2006	233	14:34:32	-27 49 16.75407	135 40 28.63749	135.419	566440.452	6922408.048	127.722	475	2871.528	0.028	-0.043	-0.002	2871.526	0.483	979133.155	-24.327	39.415	-14.292	0.796
22406720	2240	6720	20/08/2006	233	14:09:18	-27 49 17.13892	135 40 56.22253	119.303	567195.053	6922392.035	111.586	475	2874.023	0.059	-0.031	-0.002	2874.021	-2.012	979135.65	-21.84	34.435	-12.486	0.109
22406800	2240	6800	20/08/2006	233	14:01:32	-27 49 16.89489	135 41 25.26814	104.416	567989.72	6922395.101	96.678	475	2878.56	0.025	-0.028	-0.002	2878.558	-6.549	979140.187	-17.298	29.835	-10.818	1.718
5101	0	5101	22/08/2006	234	8:49:02	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.462	0.044	-0.032	0	2872.462	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	22/08/2006	234	8:52:42	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.455	0.039	-0.03	0.007	2872.462	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	22/08/2006	234	15:38:30	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.438	0.034	-0.056	0.017	2872.455	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	22/08/2006	234	15:41:36	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.441	0.026	-0.058	-0.003	2872.438	0	979133.638	-24.139	38.556	-13.981	0.436
13606000	1360	6000	22/08/2006	234	14:04:01	-27 54 04.02007	135 36 34.62004	80.95	559994.317	6913602.006	73.601	475	2881.731	0.047	-0.007	0.013	2881.744	-9.289	979142.927	-20.509	22.713	-8.236	-6.031
13606080	1360	6080	22/08/2006	234	13:58:36	-27 54 04.06590	135 37 04.06919	80.707	560799.379	6913596.56	73.328	475	2883.713	0.029	-0.004	0.013	2883.726	-11.271	979144.909	-18.527	22.629	-8.205	-4.104
13606160	1360	6160	22/08/2006	234	13:53:10	-27 54 03.81782	135 37 32.91208	79.738	561587.913	6913600.19	72.329	475	2883.887	0.039	-0.001	0.013	2883.9	-11.445	979145.083	-18.348	22.321	-8.094	-4.121
13606240	1360	6240	22/08/2006	234	13:44:52	-27 54 03.77678	135 38 02.60406	78.61	562399.629	6913597.276	71.171	475	2884.003	0.041	0.002	0.012	2884.015	-11.56	979145.198	-18.232	21.963	-7.964	-4.233
13606320	1360	6320	22/08/2006	234	13:39:49	-27 54 03.62816	135 38 31.81012	78.337	563198.079	6913597.689	70.87	475	2885.533	0.04	0.004	0.012	2885.545	-13.09	979146.728	-16.699	21.87	-7.93	-2.759
13606400	1360	6400	22/08/2006	234	13:34:21	-27 54 03.54070	135 39 01.15655	77.146	564000.357	6913596.145	69.65	475	2886.725	0.031	0.007	0.012	2886.737	-14.282	979147.92	-15.506	21.494	-7.794	-1.805
13606480	1360	6480	22/08/2006	234	13:29:25	-27 54 03.43879	135 39 30.01707	76.185	564789.356	6913595.065	68.662	475	2887.87	0.025	0.009	0.012	2887.882	-15.427	979149.065	-14.358	21.189	-7.683	-0.853
13606560	1360	6560	22/08/2006	234	13:23:38	-27 54 03.18761	135 39 59.42337	75.512	565593.301	6913598.445	67.961	475	2889.887	0.036	0.011	0.011	2889.898	-17.443	979151.081	-12.337	20.973	-7.605	1.031
13606640	1360	6640	22/08/2006	234	13:16:56	-27 54 03.03394	135 40 28.69627	75.395	566393.584	6913598.79	67.815	475	2893.177	0.047	0.014	0.011	2893.188	-20.733	979154.371	-9.044	20.928	-7.588	4.295
13606720	1360	6720	22/08/2006	234	13:12:32	-27 54 02.86515	135 40 57.89191	76.429	567191.759	6913599.56	68.82	475	2897.141	0.038	0.016	0.011	2897.152	-24.697	979158.335	-5.076	21.238	-7.701	8.461
13606800	1360	6800	22/08/2006	234	13:07:01	-27 54 02.75721	135 41 27.42086	76.276	567999.037	6913598.353	68.638	475	2900.18	0.045	0.018	0.011	2900.191	-27.736	979161.374	-2.035	21.182	-7.681	11.466
14406000	1440	6000	22/08/2006	234	11:48:14	-27 53 38.09650	135 36 34.75530	79.994	560001.986	6914399.692	72.634	475	2880.519	0.026	0.033	0.007	2880.526	-8.071	979141.709	-21.189	22.415	-8.128	-6.902
14406080	1440	6080	22/08/2006	234	11:54:17	-27 53 37.96466	135 37 04.02927	81.87	560802.34	6914399.738	74.48	475	2881.86	0.051	0.033	0.008	2881.868	-9.413	979143.051	-19.844	22.985	-8.334	-5.194
14406160	1440	6160	22/08/2006	234	12:00:01	-27 53 37.81883	135 37 33.23253	80.322	561600.763	6914400.172	72.902	475	2882.549	0.036	0.033	0.008	2882.557	-10.102	979143.74	-19.152	22.498	-8.158	-4.812
14406240	1440	6240	22/08/2006	234	12:05:42	-27 53 37.69838	135 38 02.41370	76.947	562398.58	6914399.774	69.498	475	2883.952	0.041	0.032	0.008	2883.96	-11.505	979145.143	-17.747	21.447	-7.777	-4.076
14406320	1440	6320	22/08/2006	234	12:13:23	-27 53 37.51311	135 38 31.65460	76.437	563198.041	6914401.31	68.959	475	2885.398	0.032	0.032	0.008	2885.406	-12.951	979146.589	-16.297	21.281	-7.716	-2.732
14406400	1440	6400	22/08/2006	234	12:20:37	-27 53 37.35251	135 39 00.88392	75.526	563997.184	6914402.036	68.021	475	2886.759	0.085	0.03	0.009	2886.768	-14.313	979147.951	-14.931	20.991	-7.612	-1.552
14406480	1440	6480	22/08/2006	234	12:29:16	-27 53 37.28397	135 39 30.21318	75.033	564799.044	6914399.86	67.499	475	2887.895	0.036	0.029	0.009	2887.904	-15.449	979149.087	-13.794	20.83	-7.553	-0.517
14406560	1440	6560	22/08/2006	234	12:37:09	-27 53 37.10288	135 39 59.37154	74.845	565596.253	6914401.121	67.284	475	2890.152	0.028	0.027	0.009	2890.161	-17.706	979151.344	-11.533	20.764	-7.529	1.702
14406640	1440	6640	22/08/2006	234	12:45:19	-27 53 37.04288	135 40 28.78348	74.667	566400.375	6914398.564	67.078	475	2893.738	0.033	0.025	0.01	2893.748	-21.293	979154.931	-7.945	20.7	-7.506	5.249
14406720	1440	6720	22/08/2006	234	12:53:05	-27 53 36.85370	135 40 57.94249	74.463	567197.605	6914399.967	66.844	475	2898.88	0.03	0.023	0.01	2898.89	-26.435	979160.073	-2.799	20.628	-7.48	10.349
14406800	1440	6800	22/08/2006	234	13:00:52	-27 53 36.78784	135 41 27.15225	74.693	567996.203	6914397.515	67.046	475	2900.13	0.047	0.02	0.01	2900.14	-27.685	979161.323	-1.548	20.69	-7.502	11.64
21606560	2160	6560	22/08/2006	234	9:23:15	-27 49 43.05059	135 39 57.72375	111.3	565590.33	6921603.489	103.63	475	2877.695	0.04	-0.014	0.001	2877.696	-5.241	979138.879	-19.148	31.98	-11.596	1.236
22406000	2240	6000	22/08/2006	234	14:42:00	-27 49 18.22618	135 36 33.27330	90.853	560001.203	6922396.42	83.356	475	2871.786	0.036	-0.028	0.015	2871.801	0.654	979132.984	-24.529	25.724	-9.328	-8.133
22406080	2240	6080	22/08/2006	234	14:47:43	-27 49 17.96394	135 37 02.37895	95.52	560797.502	6922400.512	87.997	475	2870.855	0.038	-0.031	0.015	2870.87	1.585	979132.053	-25.455	27.156	-9.847	-8.145
22406160	2240	6160	22/08/2006	234	14:54:48	-27 49 17.68008	135 37 31.69008	101.571	561599.427	6922405.187	94.022	475	2869.687	0.044	-0.035	0.015	2869.702	2.753	979130.885	-26.617	29.015	-10.521	-8.122
22406240	2240	6240	22/08/2006	234	15:04:44	-27 49 17.60471	135 38 00.80361	106.667	562395.916	6922403.422	99.092	475	2869.608	0.042	-0.04	0.016	2869.624	2.831	979130.807	-26.693	30.58	-11.088	-7.202
22406320	2240	6320	22/08/2006	234	15:11:36	-27 49 17.83253	135 38 30.42575	112.775	563206.271	6922392.202	105.175	475	2870.2	0.034	-0.044	0.016	2870.216	2.239	979131.399	-26.106	32.457	-11.769	-5.418
22406400	2240	6400	22/08/2006	234	15:19:07	-27 49 17.41286	135 38 59.45978	118.887	564000.642	6922400.937	111.263	475	2870.829	0.052	-0.047	0.016	2870.845	1.61	979132.028	-25.468	34.336	-12.45	-3.582
22406480	2240	6480	22/08/2006	234	15:27:29	-27 49 17.46702	135 39 28.31619	124.229	564790.078	6922395.066	116.58	475	2871.231	0.019	-0.051	0.017	2871.248	1.207	979132.431	-25.066	35.977	-13.045	-2.135
5101	0	5101	23/08/2006	235	8:32:27	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.955	0.068	-0.05	0	2872.955	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	23/08/2006	235	8:37:46	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.96	0.075	-0.047	-0.005	2872.955	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	23/08/2006	235	10:32:27	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.955	0.068	-0.05	0.005	2872.96	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	23/08/2006	235	10:37:46	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2872.96	0.075	-0.047	-0.005	2872.955	0	979133.638	-24.139	38.556	-13.981	0.436
21606000	2160	6000	23/08/2006	235	10:05:10	-27 49 44.20761	135 36 33.48639	90.016	560003.064	6921596.915	82.526	475	2872.884	0.035	0.005	0.004	2872.888	0.072	979133.566	-24.485	25.468	-9.235	-8.252
21606080	2160	6080	23/08/2006	235	9:59:06	-27 49 43.77039	135 37 02.55589	94.921	560798.349	6921606.394	87.405	475	2872.204	0.057	0.002	0.004	2872.208	0.752	979132.886	-25.156	26.973	-9.781	-7.963
21606160	2160	6160	23/08/2006	235	9:50:41	-27 49 46.34661	135 37 32.22472	103.331	561609.558	6921523.011	95.789	475	2871.257	0.036	-0.002	0.003	2871.26	1.7	979131.938	-26.157	29.56	-10.719	-7.315
21606240	2160	6240	23/08/2006	235	9:40:55	-27 49 44.49285	135 38 01.51260	113.251	562411.04	6921575.943	105.682	475	2870.684	0.032	-0.008	0.003	2870.687	2.273	979131.365	-26.692	32.613	-11.826	-5.904
21606320	2160	6320	23/08/2006	235	9:34:54	-27 49 43.41455	135 38 30.29348	120.369	563198.537	6921605.032	112.775	475	2871.108	0.063	-0.012	0.002	2871.11	1.85	979131.788	-26.246	34.802	-12.619	-4.063
21606400	2160	6400	23/08/2006	235	9:29:33	-27 49 43.21903	135 38 59.42202	128.72	563995.405	6921606.855	121.1	475	2871.199	0.075	-0.015	0.002	2871.201	1.759	979131.879	-26.151	37.371	-13.551	-2.331
21606480	2160	6480	23/08/2006	235	9:22:47	-27 49 43.04736	135 39 28.91925	126.427	564802.357	6921607.839	118.782	475	2873.084	0.032	-0.02	0.002	2873.086	-0.126	979133.764	-24.263	36.656	-13.292	-0.898
21606560	2160	6560	23/08/2006	235	9:15:05	-27 49 43.05280	135 39 57.73161	111.266	565590.545	6921603.419	103.595	475	2878.15	0.061	-0.025	0.002	2878.152	-5.192	979138.83	-19.197	31.969	-11.592	1.18
5101	0	5101	24/08/2006	236	8:26:19	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.345	0.038	-0.061	0	2873.345	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	24/08/2006	236	8:29:08	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.337	0.035	-0.059	0.008	2873.345	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	24/08/2006	236	16:08:24	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.166	0.036	-0.032	0.171	2873.337	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	24/08/2006	236	16:10:43	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.169	0.036	-0.033	-0.003	2873.166	0	979133.638	-24.139	38.556	-13.981	0.436
12006000	1200	6000	24/08/2006	236	15:13:13	-27 54 56.20375	135 36 35.01663	84.59	559997.16	6911996.185	77.246	475	2885.359	0.054	0.005	0.15	2885.509	-12.172	979145.81	-18.708	23.838	-8.644	-3.514
12006080	1200	6080	24/08/2006	236	15:07:01	-27 54 56.03116	135 37 03.87900	82.187	560786.109	6911997.539	74.813	475	2887.315	0.106	0.009	0.148	2887.463	-14.126	979147.764	-16.751	23.087	-8.372	-2.035
12006160	1200	6160	24/08/2006	236	14:39:53	-27 54 55.80603	135 37 33.66703	82.958	561600.37	6912000.329	75.554	475	2886.702	0.047	0.026	0.138	2886.84	-13.503	979147.141	-17.369	23.316	-8.454	-2.507
12006240	1200	6240	24/08/2006	236	14:33:31	-27 54 55.65670	135 38 02.97075	85.252	562401.383	6912000.8	77.818	475	2884.72	0.086	0.03	0.136	2884.856	-11.519	979145.157	-19.35	24.015	-8.708	-4.043
12006320	1200	6320	24/08/2006	236	14:27:02	-27 54 55.59824	135 38 32.02141	83.983	563195.464	6911998.458	76.52	475	2885.865	0.08	0.034	0.133	2885.998	-12.661	979146.299	-18.207	23.614	-8.563	-3.155
12006400	1200	6400	24/08/2006	236	14:19:49	-27 54 55.34074	135 39 01.57191	82.678	564003.243	6912002.116	75.187	475	2887.247	0.135	0.037	0.131	2887.378	-14.041	979147.679	-16.821	23.203	-8.413	-2.032
12006480	1200	6480	24/08/2006	236	14:11:51	-27 54 55.33173	135 39 30.75550	83.111	564800.952	6911998.127	75.591	475	2887.763	0.116	0.042	0.128	2887.891	-14.554	979148.192	-16.308	23.327	-8.459	-1.439
12006560	1200	6560	24/08/2006	236	14:05:04	-27 54 55.10451	135 39 59.91576	81.36	565598.061	6912000.803	73.812	475	2888.9	0.053	0.045	0.125	2889.025	-15.688	979149.326	-15.169	22.778	-8.26	-0.65
12006640	1200	6640	24/08/2006	236	13:56:42	-27 54 54.98499	135 40 29.16135	80.869	566397.486	6912000.1	73.292	475	2890.853	0.031	0.048	0.122	2890.975	-17.638	979151.276	-13.217	22.618	-8.201	1.2
12006720	1200	6720	24/08/2006	236	13:49:57	-27 54 54.74948	135 40 58.39553	80.992	567196.62	6912002.914	73.387	475	2894.025	0.093	0.051	0.119	2894.144	-20.807	979154.445	-10.043	22.647	-8.212	4.392
12006800	1200	6800	24/08/2006	236	13:43:16	-27 54 54.78283	135 41 27.69398	84.439	567997.466	6911997.393	76.805	475	2896.561	0.121	0.054	0.117	2896.678	-23.341	979156.979	-7.51	23.702	-8.594	7.598
12806000	1280	6000	24/08/2006	236	12:15:07	-27 54 30.10748	135 36 35.16333	83.092	560005.171	6912799.185	75.745	475	2884.232	0.099	0.063	0.084	2884.316	-10.979	979144.617	-19.36	23.375	-8.476	-4.461
12806080	1280	6080	24/08/2006	236	12:22:32	-27 54 29.93071	135 37 04.18020	84.584	560798.397	6912800.647	77.207	475	2885.894	0.061	0.064	0.087	2885.981	-12.644	979146.282	-17.691	23.826	-8.639	-2.504
12806160	1280	6160	24/08/2006	236	12:30:24	-27 54 29.69147	135 37 33.64251	84.885	561603.81	6912803.917	77.478	475	2884.241	0.06	0.064	0.09	2884.331	-10.994	979144.632	-19.336	23.91	-8.67	-4.096
12806240	1280	6240	24/08/2006	236	12:37:44	-27 54 29.55981	135 38 02.74699	80.867	562399.427	6912803.874	73.431	475	2884.706	0.042	0.065	0.093	2884.799	-11.462	979145.1	-18.865	22.661	-8.217	-4.421
12806320	1280	6320	24/08/2006	236	12:46:13	-27 54 29.67364	135 38 31.92837	80.414	563197.107	6912796.212	72.949	475	2886.487	0.038	0.065	0.096	2886.583	-13.246	979146.884	-17.084	22.512	-8.163	-2.735
12806400	1280	6400	24/08/2006	236	12:53:42	-27 54 29.38577	135 39 01.37633	79.977	564002.141	6912800.82	72.483	475	2887.676	0.092	0.065	0.099	2887.775	-14.438	979148.076	-15.886	22.368	-8.111	-1.628
12806480	1280	6480	24/08/2006	236	13:03:54	-27 54 29.19023	135 39 30.54885	79.999	564799.631	6912802.574	72.477	475	2888.198	0.045	0.064	0.102	2888.3	-14.963	979148.601	-15.357	22.366	-8.11	-1.1
12806560	1280	6560	24/08/2006	236	13:11:54	-27 54 29.02311	135 39 59.82472	82.603	565599.944	6912803.384	75.053	475	2888.785	0.079	0.062	0.105	2888.89	-15.553	979149.191	-14.763	23.161	-8.398	0
12806640	1280	6640	24/08/2006	236	13:18:36	-27 54 29.00738	135 40 28.97333	81.9	566396.753	6912799.503	74.321	475	2891.381	0.046	0.061	0.108	2891.489	-18.152	979151.79	-12.164	22.935	-8.316	2.455
12806720	1280	6720	24/08/2006	236	13:26:16	-27 54 28.94250	135 40 58.07985	78.516	567192.422	6912797.087	70.909	475	2896.232	0.045	0.059	0.111	2896.343	-23.006	979156.644	-7.308	21.883	-7.935	6.639
12806800	1280	6800	24/08/2006	236	13:34:41	-27 54 28.72044	135 41 27.31830	78.181	567991.725	6912799.436	70.545	475	2899.02	0.069	0.057	0.114	2899.134	-25.797	979159.435	-4.513	21.77	-7.894	9.363
13606000	1360	6000	24/08/2006	236	15:24:41	-27 54 04.01634	135 36 34.61859	80.97	559994.278	6913602.121	73.621	475	2882.435	0.036	-0.002	0.155	2882.59	-9.253	979142.891	-20.544	22.719	-8.238	-6.063
20806000	2080	6000	24/08/2006	236	11:21:20	-27 50 10.10621	135 36 33.62368	88.171	560002.862	6920799.968	80.693	475	2874.479	0.06	0.045	0.064	2874.543	-1.206	979134.844	-23.743	24.902	-9.03	-7.871
20806080	2080	6080	24/08/2006	236	11:14:57	-27 50 09.79923	135 37 02.66566	95.035	560797.322	6920805.442	87.53	475	2873.491	0.029	0.042	0.062	2873.553	-0.216	979133.854	-24.727	27.012	-9.795	-7.51

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
20806160	2080	6160	24/08/2006	236	11:05:49	-27 50 10.18985	135 37 31.44070	98.711	561584.371	6920789.436	91.18	475	2873.599	0.032	0.038	0.058	2873.657	-0.32	979133.958	-24.631	28.138	-10.203	-6.696
20806240	2080	6240	24/08/2006	236	10:53:11	-27 50 09.33109	135 38 00.78457	108.174	562387.179	6920811.744	100.615	475	2873.321	0.034	0.03	0.054	2873.375	-0.038	979133.676	-24.895	31.05	-11.259	-5.104
20806320	2080	6320	24/08/2006	236	10:43:35	-27 50 09.38265	135 38 30.28085	121.421	563194.012	6920805.964	113.836	475	2872.408	0.041	0.025	0.05	2872.458	0.879	979132.759	-25.813	35.13	-12.738	-3.422
20806400	2080	6400	24/08/2006	236	10:36:50	-27 50 09.19136	135 38 59.76004	124.652	564000.419	6920807.606	117.041	475	2873.923	0.028	0.021	0.048	2873.971	-0.634	979134.272	-24.296	36.119	-13.097	-1.274
20806480	2080	6480	24/08/2006	236	10:30:06	-27 50 09.13272	135 39 28.83110	120.287	564795.641	6920805.172	112.65	475	2877.195	0.056	0.016	0.045	2877.24	-3.903	979137.541	-21.026	34.764	-12.606	1.132
20806560	2080	6560	24/08/2006	236	10:22:49	-27 50 09.10057	135 39 58.22404	118.531	565599.664	6920801.823	110.867	475	2878.5	0.07	0.012	0.042	2878.542	-5.205	979138.843	-19.723	34.214	-12.406	2.084
20806640	2080	6640	24/08/2006	236	10:13:46	-27 50 08.99443	135 40 27.46490	103.131	566399.541	6920800.72	95.445	475	2881.669	0.04	0.006	0.039	2881.708	-8.371	979142.009	-16.555	29.454	-10.68	2.219
20806720	2080	6720	24/08/2006	236	9:27:40	-27 50 08.95966	135 40 56.57144	97.46	567195.733	6920797.388	89.75	475	2882.857	0.044	-0.024	0.022	2882.879	-9.542	979143.18	-15.384	27.697	-10.043	2.27
20806800	2080	6800	24/08/2006	236	9:19:58	-27 50 08.66326	135 41 25.82966	93.634	567996.119	6920802.031	85.902	475	2886.071	0.036	-0.03	0.019	2886.09	-12.753	979146.391	-12.166	26.509	-9.612	4.731
21606800	2160	6800	24/08/2006	236	9:11:36	-27 49 42.81041	135 41 25.93813	100.24	568003.563	6921597.542	92.503	475	2882.488	0.041	-0.035	0.016	2882.504	-9.167	979142.805	-15.217	28.546	-10.351	2.979
5101	0	5101	25/08/2006	237	8:52:12	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.427	0.024	-0.055	0	2873.427	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	25/08/2006	237	8:54:42	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.424	0.017	-0.053	0.003	2873.427	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	25/08/2006	237	15:28:01	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.407	0.025	0.024	0.017	2873.424	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	25/08/2006	237	15:30:43	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.401	0.029	0.023	0.006	2873.407	0	979133.638	-24.139	38.556	-13.981	0.436
18406000	1840	6000	25/08/2006	237	14:42:41	-27 51 27.92454	135 36 34.07755	77.642	560003.379	6918405.345	70.215	475	2878.63	0.031	0.052	0.015	2878.645	-5.221	979138.859	-21.34	21.668	-7.857	-7.529
18406080	1840	6080	25/08/2006	237	14:34:31	-27 51 28.13611	135 37 03.17659	80.8	560799.161	6918394.852	73.345	475	2878.903	0.037	0.056	0.015	2878.918	-5.494	979139.132	-21.072	22.634	-8.207	-6.645
18406160	1840	6160	25/08/2006	237	14:26:12	-27 51 27.99088	135 37 32.28045	83.594	561595.13	6918395.286	76.111	475	2879.203	0.028	0.061	0.014	2879.217	-5.793	979139.431	-20.77	23.488	-8.517	-5.799
18406240	1840	6240	25/08/2006	237	14:16:44	-27 51 27.53443	135 38 02.07373	100.635	562410.005	6918405.147	93.122	475	2876.42	0.032	0.065	0.014	2876.434	-3.01	979136.648	-23.543	28.737	-10.42	-5.226
18406320	1840	6320	25/08/2006	237	14:06:42	-27 51 27.74277	135 38 30.96062	106.138	563199.987	6918394.625	98.599	475	2876.413	0.046	0.068	0.013	2876.426	-3.002	979136.64	-23.555	30.428	-11.033	-4.161
18406400	1840	6400	25/08/2006	237	13:53:49	-27 51 27.49401	135 38 59.89819	100.685	563991.43	6918398.111	93.119	475	2879.125	0.027	0.072	0.013	2879.138	-5.714	979139.352	-20.838	28.737	-10.42	-2.522
18406480	1840	6480	25/08/2006	237	13:46:06	-27 51 27.31856	135 39 29.54708	98.676	564802.315	6918399.184	91.083	475	2882.159	0.018	0.074	0.013	2882.172	-8.748	979142.386	-17.801	28.108	-10.192	0.115
18406560	1840	6560	25/08/2006	237	13:35:07	-27 51 26.82281	135 39 58.52888	100.355	565595.012	6918410.158	92.736	475	2884.64	0.02	0.077	0.012	2884.652	-11.228	979144.866	-15.31	28.618	-10.377	2.931
18406640	1840	6640	25/08/2006	237	13:23:14	-27 51 26.98109	135 40 28.04519	85.891	566402.219	6918400.874	78.245	475	2888.421	0.039	0.078	0.012	2888.433	-15.009	979148.647	-11.533	24.146	-8.756	3.858
18406720	1840	6720	25/08/2006	237	13:16:10	-27 51 26.88070	135 40 57.03113	88.493	567194.965	6918399.577	80.822	475	2891.001	0.029	0.078	0.011	2891.012	-17.588	979151.226	-8.952	24.942	-9.044	6.946
18406800	1840	6800	25/08/2006	237	13:06:29	-27 51 26.71172	135 41 26.44542	85.01	567999.439	6918400.272	77.313	475	2894.74	0.035	0.079	0.011	2894.751	-21.327	979154.965	-5.209	23.859	-8.651	9.998
19206000	1920	6000	25/08/2006	237	11:13:38	-27 51 02.15375	135 36 33.90495	80.067	560002.6	6919198.367	72.624	475	2877.568	0.031	0.039	0.006	2877.574	-4.15	979137.788	-21.877	22.412	-8.127	-7.592
19206080	1920	6080	25/08/2006	237	11:20:41	-27 51 01.86372	135 37 03.02426	87.956	560799.066	6919203.307	80.485	475	2876.862	0.04	0.043	0.006	2876.868	-3.444	979137.082	-22.577	24.838	-9.006	-6.746
19206160	1920	6160	25/08/2006	237	11:29:10	-27 51 01.76984	135 37 32.08034	88.271	561593.774	6919202.168	80.771	475	2877.869	0.027	0.048	0.007	2877.876	-4.452	979138.09	-21.567	24.926	-9.038	-5.68
19206240	1920	6240	25/08/2006	237	11:37:23	-27 51 01.82337	135 38 01.51659	98.665	562398.857	6919196.388	91.137	475	2876.741	0.03	0.052	0.007	2876.748	-3.324	979136.962	-22.696	28.125	-10.198	-4.77
19206320	1920	6320	25/08/2006	237	11:44:47	-27 51 01.59332	135 38 30.90214	115.748	563202.6	6919199.287	108.194	475	2874.537	0.032	0.057	0.007	2874.544	-1.12	979134.758	-24.896	33.389	-12.107	-3.614
19206400	1920	6400	25/08/2006	237	11:51:52	-27 51 01.55342	135 39 00.02085	117.661	563999.015	6919196.32	110.08	475	2876.073	0.027	0.06	0.008	2876.081	-2.657	979136.295	-23.358	33.971	-12.318	-1.705
19206480	1920	6480	25/08/2006	237	12:27:26	-27 51 01.30763	135 39 29.24019	104.881	564798.218	6919199.621	97.273	475	2880.911	0.027	0.073	0.009	2880.92	-7.496	979141.134	-18.514	30.018	-10.885	0.62
19206560	1920	6560	25/08/2006	237	12:34:39	-27 51 00.96773	135 39 58.64653	106.701	565602.552	6919205.738	99.066	475	2883.016	0.026	0.075	0.01	2883.026	-9.602	979143.24	-16.401	30.572	-11.085	3.086
19206640	1920	6640	25/08/2006	237	12:42:25	-27 51 01.09694	135 40 27.64405	91.033	566395.628	6919197.427	83.374	475	2886.302	0.042	0.076	0.01	2886.312	-12.888	979146.526	-13.117	25.729	-9.33	3.282
19206720	1920	6720	25/08/2006	237	12:48:16	-27 51 00.95915	135 40 56.88725	91.249	567195.469	6919197.242	83.565	475	2888.354	0.025	0.077	0.01	2888.364	-14.94	979148.578	-11.063	25.788	-9.351	5.375
19206800	1920	6800	25/08/2006	237	12:53:58	-27 51 00.67802	135 41 26.08996	86.733	567994.229	6919201.422	79.024	475	2892.036	0.034	0.078	0.01	2892.046	-18.622	979152.26	-7.375	24.387	-8.843	8.169
20006000	2000	6000	25/08/2006	237	11:00:47	-27 50 36.08309	135 36 33.63121	85.083	559999.098	6920000.628	77.623	475	2875.944	0.035	0.031	0.005	2875.949	-2.525	979136.163	-22.962	23.954	-8.686	-7.694
20006080	2000	6080	25/08/2006	237	10:53:41	-27 50 35.80213	135 37 02.78509	88.054	560796.562	6920005.287	80.565	475	2876.209	0.024	0.026	0.005	2876.214	-2.79	979136.428	-22.691	24.862	-9.015	-6.844
20006160	2000	6160	25/08/2006	237	10:46:48	-27 50 35.78140	135 37 32.08817	95.059	561598.067	6920001.864	87.543	475	2875.839	0.027	0.021	0.005	2875.844	-2.42	979136.058	-23.061	27.016	-9.796	-5.841
20006240	2000	6240	25/08/2006	237	10:37:15	-27 50 35.66755	135 38 01.35497	103.65	562398.595	6920001.258	96.107	475	2875.312	0.039	0.014	0.004	2875.316	-1.892	979135.53	-23.587	29.659	-10.754	-4.682
20006320	2000	6320	25/08/2006	237	10:28:56	-27 50 35.66713	135 38 30.65658	120.485	563200.059	6919997.104	112.915	475	2873.421	0.025	0.009	0.004	2873.425	-0.001	979133.639	-25.478	34.846	-12.635	-3.267
20006400	2000	6400	25/08/2006	237	10:21:49	-27 50 35.56758	135 38 59.86268	121.684	563998.927	6919995.961	114.088	475	2875.391	0.019	0.004	0.004	2875.395	-1.971	979135.609	-23.506	35.208	-12.766	-1.064
20006480	2000	6480	25/08/2006	237	10:14:23	-27 50 35.25452	135 39 28.92826	120.359	564793.987	6920001.356	112.737	475	2877.498	0.04	-0.001	0.003	2877.501	-4.077	979137.715	-21.393	34.791	-12.615	0.782
20006560	2000	6560	25/08/2006	237	10:08:00	-27 50 34.79811	135 39 58.35931	107.843	565599.07	6920011.055	100.194	475	2881.942	0.027	-0.005	0.003	2881.945	-8.521	979142.159	-16.94	30.92	-11.212	2.769
20006640	2000	6640	25/08/2006	237	9:59:36	-27 50 35.01842	135 40 27.62956	100.027	566399.644	6919999.901	92.354	475	2883.034	0.026	-0.011	0.003	2883.037	-9.613	979143.251	-15.852	28.5	-10.334	2.314
20006720	2000	6720	25/08/2006	237	9:50:53	-27 50 35.01304	135 40 56.85283	94.424	567198.97	6919995.646	86.727	475	2885.546	0.02	-0.018	0.002	2885.548	-12.124	979145.762	-13.341	26.764	-9.705	3.718
20006800	2000	6800	25/08/2006	237	9:43:53	-27 50 34.62002	135 41 25.91308	90.578	567993.906	6920003.292	82.858	475	2888.681	0.025	-0.023	0.002	2888.683	-15.259	979148.897	-10.198	25.57	-9.272	6.1
20806000	2080	6000	25/08/2006	237	14:56:43	-27 50 10.10099	135 36 33.61709	88.159	560002.683	6920800.129	80.681	475	2874.626	0.02	0.045	0.016	2874.642	-1.218	979134.856	-23.731	24.898	-9.028	-7.861
20806800	2080	6800	25/08/2006	237	9:35:10	-27 50 08.66096	135 41 25.83543	93.633	567996.278	6920802.101	85.901	475	2886.203	0.029	-0.029	0.002	2886.205	-12.781	979146.419	-12.138	26.509	-9.612	4.759
5101	0	5101	26/08/2006	238	8:47:18	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.604	0.02	-0.063	0	2873.604	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	26/08/2006	238	8:49:59	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.612	0.038	-0.062	-0.008	2873.604	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	26/08/2006	238	15:40:10	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.572	0.022	0.046	0.04	2873.612	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	26/08/2006	238	15:42:52	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2873.583	0.015	0.045	-0.011	2873.572	0	979133.638	-24.139	38.556	-13.981	0.436
16806000	1680	6000	26/08/2006	238	12:52:13	-27 52 20.25043	135 36 34.33622	79.221	560002.447	6916795.177	71.825	475	2879.594	0.038	0.083	0.024	2879.618	-6.006	979139.644	-21.64	22.165	-8.037	-7.512
16806080	1680	6080	26/08/2006	238	13:04:11	-27 52 20.70318	135 37 03.60977	76.819	560802.857	6916777.237	69.394	475	2880.687	0.03	0.086	0.025	2880.712	-7.1	979140.738	-20.555	21.415	-7.765	-6.905
16806160	1680	6160	26/08/2006	238	13:25:04	-27 52 20.59661	135 37 32.64830	76.757	561596.927	6916776.488	69.302	475	2881.582	0.028	0.089	0.027	2881.609	-7.997	979141.635	-19.656	21.387	-7.755	-6.024
16806240	1680	6240	26/08/2006	238	14:00:23	-27 52 19.72171	135 38 01.78576	79.008	562393.826	6916799.315	71.524	475	2882.177	0.036	0.088	0.03	2882.207	-8.595	979142.233	-19.04	22.072	-8.004	-4.971
16806320	1680	6320	26/08/2006	238	14:08:44	-27 52 19.50707	135 38 31.11414	80.481	563195.844	6916801.746	72.97	475	2883.236	0.026	0.086	0.031	2883.267	-9.655	979143.293	-17.975	22.519	-8.165	-3.622
16806400	1680	6400	26/08/2006	238	14:15:43	-27 52 19.15562	135 39 00.60210	82.53	564002.249	6916808.31	74.991	475	2883.835	0.024	0.085	0.032	2883.867	-10.255	979143.893	-17.368	23.142	-8.391	-2.617
16806480	1680	6480	26/08/2006	238	14:30:59	-27 52 19.47261	135 39 31.41757	84.2	564844.846	6916794.055	76.633	475	2885.569	0.022	0.081	0.033	2885.602	-11.99	979145.628	-15.64	23.649	-8.575	-0.566
16806560	1680	6560	26/08/2006	238	14:36:41	-27 52 19.04812	135 39 58.90210	85.36	565596.483	6916803.054	77.767	475	2888.56	0.021	0.079	0.034	2888.594	-14.982	979148.62	-12.639	23.999	-8.702	2.658
16806640	1680	6640	26/08/2006	238	14:42:34	-27 52 18.87664	135 40 27.88727	79.416	566389.114	6916803.995	71.796	475	2894.287	0.022	0.076	0.034	2894.321	-20.709	979154.347	-6.908	22.156	-8.034	7.214
16806720	1680	6720	26/08/2006	238	14:48:54	-27 52 19.03535	135 40 57.39518	76.879	567195.984	6916794.644	69.232	475	2897.167	0.023	0.074	0.035	2897.202	-23.59	979157.228	-4.031	21.365	-7.747	9.588
16806800	1680	6800	26/08/2006	238	14:55:34	-27 52 18.65009	135 41 26.82058	76.638	568000.693	6916801.991	68.963	475	2898.871	0.027	0.071	0.036	2898.907	-25.295	979158.933	-2.318	21.282	-7.717	11.248
17606000	1760	6000	26/08/2006	238	12:04:16	-27 51 53.95532	135 36 34.20052	77.943	560002.76	6917604.329	70.534	475	2879.198	0.028	0.063	0.019	2879.217	-5.605	979139.243	-21.496	21.767	-7.893	-7.622
17606080	1760	6080	26/08/2006	238	11:53:22	-27 51 53.65605	135 37 03.03913	77.425	560791.446	6917609.591	69.987	475	2880.082	0.028	0.057	0.018	2880.1	-6.488	979140.126	-20.607	21.598	-7.832	-6.84
17606160	1760	6160	26/08/2006	238	11:46:29	-27 51 53.77956	135 37 32.40925	79.506	561594.603	6917601.717	72.039	475	2880.513	0.027	0.052	0.017	2880.53	-6.918	979140.556	-20.179	22.231	-8.061	-6.009
17606240	1760	6240	26/08/2006	238	11:36:31	-27 51 53.97095	135 38 01.75375	84.794	562397.049	6917591.705	77.298	475	2880.372	0.021	0.047	0.016	2880.388	-6.776	979140.414	-20.325	23.854	-8.65	-5.12
17606320	1760	6320	26/08/2006	238	10:25:18	-27 51 53.25660	135 38 31.27152	88.696	563204.378	6917609.486	81.172	475	2880.575	0.042	-0.003	0.009	2880.584	-6.972	979140.61	-20.114	25.05	-9.083	-4.148
17606400	1760	6400	26/08/2006	238	10:16:30	-27 51 53.83574	135 39 00.57173	89.129	564005.551	6917587.442	81.578	475	2881.794	0.031	-0.009	0.008	2881.802	-8.19	979141.828	-18.908	25.175	-9.129	-2.862
17606480	1760	6480	26/08/2006	238	10:08:15	-27 51 52.76359	135 39 29.24883	90.783	564789.955	6917616.249	83.205	475	2883.971	0.037	-0.016	0.008	2883.979	-10.367	979144.005	-16.709	25.677	-9.311	-0.343
17606560	1760	6560	26/08/2006	238	10:01:25	-27 51 53.08683	135 39 59.07026	89.59	565605.425	6917601.896	81.985	475	2887.442	0.018	-0.021	0.007	2887.449	-13.837	979147.475	-13.246	25.301	-9.174	2.881
17606640	1760	6640	26/08/2006	238	9:55:13	-27 51 53.32486	135 40 28.16765	84.53	566401.108	6917590.219	76.898	475	2891.163	0.029	-0.025	0.006	2891.169	-17.557	979151.195	-9.531	23.731	-8.605	5.595
17606720	1760	6720	26/08/2006	238	9:46:57	-27 51 52.79943	135 40 57.10074	81.98	567192.428	6917602.008	74.322	475	2894.781	0.018	-0.03	0.006	2894.787	-21.175	979154.813	-5.902	22.936	-8.317	8.718
17606800	1760	6800	26/08/2006	238	9:39:59	-27 51 52.62681	135 41 26.54340	83.884	567997.626	6917602.81	76.199	475	2896.55	0.036	-0.035	0.005	2896.555	-22.943	979156.581	-4.13	23.515	-8.527	10.858
18406800	1840	6800	26/08/2006	238	9:31:16	-27 51 26.71136	135 41 26.43940	85.003	567999.274	6918400.284	77.306	475	2894.948	0.019	-0.041	0.004	2894.952	-21.34	979154.978	-5.196	23.857	-8.651	10.01
20806800	2080	6800	26/08/2006	238	15:13:51	-27 50 08.65474	135 41 25.83156	93.624	567996.173	6920802.293	85.892	475	2886.38	0.016	0.062	0.037	2886.417	-12.805	979146.443	-12.114	26.506	-9.611	4.781
5101	0	5101	27/08/2006	239	8:55:00	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.133	0.021	-0.064	0	2874.133	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	27/08/2006	239	8:57:21	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.131	0.012	-0.064	0.002	2874.133	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	27/08/2006	239	15:09:09	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.01	0.049	0.085	0.121	2874.131	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	27/08/2006	239	15:11:43	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.007	0.034	0.084	0.003	2874.01	0	979133.638	-24.139	38.556	-13.981	0.436
15206000	1520	6000	27/08/2006	239	14:20:06	-27 53 12.09832	135 36 34.70263	78.328	560004.528	6915199.699	70.956	475	2881.441	0.038	0.096	0.105	2881.546	-7.415	979141.053	-21.306	21.897	-7.94	-7.349
15206080	1520	6080	27/08/2006	239	14:13:51	-27 53 11.97928	135 37 04.10717	78.202	560808.502	6915199.334	70.8	475	2883.155	0.046	0.097	0.103	2883.258	-9.127	979142.765	-19.591	21.849	-7.922	-5.665
15206160	1520	6160	27/08/2006	239	14:03:28	-27 53 11.68860	135 37 33.14174	77.546	561602.39	6915204.249	70.114	475	2883.689	0.038	0.097	0.1	2883.789	-9.658	979143.296	-19.054	21.637	-7.846	-5.263
15206240	1520	6240	27/08/2006	239	13:57:41	-27 53 11.68387	135 38 02.17781	76.484	562396.274	6915200.312	69.023	475	2884.632	0.051	0.097	0.098	2884.73	-10.599	979144.237	-18.113	21.3	-7.724	-4.536
15206320	1520	6320	27/08/2006	239	13:50:01	-27 53 11.50940	135 38 31.75916	75.718	563205.095	6915201.468	68.229	475	2886.606	0.041	0.096	0.095	2886.701	-12.57	979146.208	-16.138	21.055	-7.635	-2.718
15206400	1520	6400	27/08/2006	239	13:41:32	-27 53 11.30702	135 39 01.02947	75.231	564005.418	6915203.473	67.714	475	2888.319	0.031	0.095	0.092	2888.411	-14.28	979147.918	-14.424	20.897	-7.577	-1.105
15206480	1520	6480	27/08/2006	239	13:33:04	-27 53 10.91222	135 39 30.17279	74.96	564802.302	6915211.365	67.416	475	2889.422	0.039	0.093	0.09	2889.512	-15.381	979149.019	-13.315	20.805	-7.544	-0.054

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
15206560	1520	6560	27/08/2006	239	13:25:32	-27 53 10.88833	135 39 59.53899	75.091	565605.221	6915207.758	67.519	475	2891.701	0.022	0.092	0.087	2891.788	-17.657	979151.295	-11.039	20.836	-7.555	2.242
15206640	1520	6640	27/08/2006	239	13:17:18	-27 53 11.02465	135 40 28.98378	74.614	566410.261	6915199.156	67.014	475	2895.9	0.031	0.089	0.085	2895.985	-21.854	979155.492	-6.844	20.681	-7.499	6.337
15206720	1520	6720	27/08/2006	239	13:08:27	-27 53 10.72548	135 40 57.94706	74.297	567202.212	6915203.974	66.669	475	2899.446	0.034	0.086	0.082	2899.528	-25.397	979159.035	-3.295	20.574	-7.46	9.819
15206800	1520	6800	27/08/2006	239	13:01:07	-27 53 10.59901	135 41 26.98293	73.92	567996.119	6915203.414	66.263	475	2901.1	0.037	0.084	0.079	2901.179	-27.048	979160.686	-1.642	20.449	-7.415	11.392
16006000	1600	6000	27/08/2006	239	11:36:03	-27 52 45.93304	135 36 34.49821	80.212	560002.945	6916004.867	72.828	475	2880.408	0.06	0.035	0.052	2880.46	-6.329	979139.967	-21.849	22.475	-8.149	-7.524
16006080	1600	6080	27/08/2006	239	11:41:06	-27 52 45.91451	135 37 03.44362	77.651	560794.404	6916001.474	70.238	475	2881.787	0.027	0.039	0.053	2881.84	-7.709	979141.347	-20.469	21.675	-7.86	-6.653
16006160	1600	6160	27/08/2006	239	11:47:47	-27 52 45.71957	135 37 32.60230	76.604	561591.722	6916003.427	69.162	475	2882.848	0.03	0.043	0.055	2882.903	-8.772	979142.41	-19.402	21.343	-7.739	-5.797
16006240	1600	6240	27/08/2006	239	11:56:22	-27 52 45.81372	135 38 02.08650	75.843	562397.897	6915996.386	68.37	475	2884.084	0.05	0.049	0.058	2884.142	-10.011	979143.649	-18.165	21.099	-7.651	-4.716
16006320	1600	6320	27/08/2006	239	12:05:07	-27 52 45.77456	135 38 31.49224	76.229	563201.948	6915993.404	68.729	475	2885.769	0.044	0.055	0.061	2885.83	-11.699	979145.337	-16.476	21.21	-7.691	-2.957
16006400	1600	6400	27/08/2006	239	12:18:00	-27 52 45.67657	135 39 00.79983	76.891	564003.325	6915992.193	69.364	475	2886.727	0.052	0.062	0.065	2886.792	-12.661	979146.299	-15.512	21.406	-7.762	-1.868
16006480	1600	6480	27/08/2006	239	12:24:00	-27 52 45.32174	135 39 29.69213	77.517	564793.391	6915998.893	69.962	475	2888.187	0.027	0.066	0.067	2888.254	-14.123	979147.761	-14.042	21.59	-7.829	-0.281
16006560	1600	6560	27/08/2006	239	12:30:00	-27 52 45.29557	135 39 59.43927	78.649	565606.779	6915995.301	71.067	475	2891.193	0.028	0.069	0.069	2891.262	-17.131	979150.769	-11.034	21.931	-7.952	2.945
16006640	1600	6640	27/08/2006	239	12:35:06	-27 52 44.98744	135 40 28.32978	75.593	566396.792	6916000.46	67.983	475	2897.062	0.036	0.072	0.071	2897.133	-23.002	979156.64	-5.157	20.98	-7.607	8.216
16006720	1600	6720	27/08/2006	239	12:42:42	-27 52 44.72467	135 40 57.90114	74.214	567205.415	6916004.067	66.576	475	2898.84	0.05	0.076	0.073	2898.913	-24.782	979158.42	-3.371	20.545	-7.45	9.725
16006800	1600	6800	27/08/2006	239	12:49:11	-27 52 44.79539	135 41 26.91306	73.711	567998.686	6915997.444	66.045	475	2900.452	0.057	0.079	0.075	2900.527	-26.396	979160.034	-1.759	20.381	-7.39	11.233
16806000	1680	6000	27/08/2006	239	11:24:55	-27 52 20.25213	135 36 34.32959	79.23	560002.266	6916795.125	71.835	475	2880.056	0.028	0.027	0.048	2880.104	-5.973	979139.611	-21.673	22.168	-8.038	-7.543
21606480	2160	6480	27/08/2006	239	15:00:38	-27 49 43.06864	135 39 28.94099	126.355	564802.948	6921607.181	118.709	475	2874.201	0.019	0.088	0.118	2874.319	-0.188	979133.826	-24.201	36.634	-13.284	-0.851
5101	0	5101	28/08/2006	240	9:01:41	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.355	0.03	-0.065	0	2874.355	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	28/08/2006	240	9:04:37	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.359	0.015	-0.064	-0.004	2874.355	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	28/08/2006	240	15:03:22	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.288	0.046	0.099	0.071	2874.359	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	28/08/2006	240	15:06:31	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.291	0.021	0.098	-0.003	2874.288	0	979133.638	-24.139	38.556	-13.981	0.436
22406480	2240	6480	28/08/2006	240	14:55:46	-27 49 17.47617	135 39 28.30400	124.239	564789.743	6922394.786	116.59	475	2873.103	0.017	0.1	0.069	2873.172	1.187	979132.451	-25.046	35.98	-13.046	-2.113
22406800	2240	6800	28/08/2006	240	10:03:48	-27 49 16.91242	135 41 25.25380	104.428	567989.325	6922394.564	96.689	475	2880.874	0.033	-0.039	0.012	2880.886	-6.527	979140.165	-17.321	29.838	-10.819	1.698
23206000	2320	6000	28/08/2006	240	11:39:11	-27 48 52.04843	135 36 33.43340	94.909	560009.581	6923201.915	87.404	475	2872.438	0.029	0.022	0.031	2872.469	1.89	979131.748	-25.223	26.973	-9.78	-8.031
23206080	2320	6080	28/08/2006	240	11:33:24	-27 48 51.91007	135 37 02.49690	96.199	560804.76	6923202.201	88.668	475	2871.626	0.037	0.018	0.029	2871.655	2.704	979130.934	-26.034	27.363	-9.922	-8.593
23206160	2320	6160	28/08/2006	240	11:27:34	-27 48 51.86478	135 37 31.57970	102.688	561600.455	6923199.568	95.132	475	2870.083	0.018	0.015	0.028	2870.111	4.248	979129.39	-27.577	29.358	-10.645	-8.865
23206240	2320	6240	28/08/2006	240	11:21:28	-27 48 51.62173	135 38 00.78617	106.258	562399.565	6923202.95	98.677	475	2870.138	0.046	0.01	0.027	2870.165	4.194	979129.444	-27.518	30.452	-11.042	-8.108
23206320	2320	6320	28/08/2006	240	11:15:01	-27 48 51.54922	135 38 30.03002	109.167	563199.672	6923201.027	101.562	475	2870.924	0.032	0.005	0.026	2870.95	3.409	979130.229	-26.732	31.342	-11.365	-6.754
23206400	2320	6400	28/08/2006	240	11:07:32	-27 48 51.41801	135 38 59.80324	120.251	564014.273	6923200.78	112.621	475	2870.695	0.05	0	0.024	2870.719	3.64	979129.998	-26.96	34.755	-12.602	-4.807
23206480	2320	6480	28/08/2006	240	11:02:02	-27 48 51.31968	135 39 28.59262	137.599	564801.952	6923199.611	129.946	475	2868.577	0.025	-0.003	0.023	2868.6	5.759	979127.879	-29.077	40.101	-14.541	-3.516
23206560	2320	6560	28/08/2006	240	10:55:46	-27 48 50.85065	135 39 57.73422	123.835	565599.331	6923209.744	116.157	475	2873.038	0.024	-0.007	0.022	2873.06	1.299	979132.339	-24.607	35.846	-12.998	-1.759
23206640	2320	6640	28/08/2006	240	10:48:51	-27 48 49.95846	135 40 26.52869	135.803	566387.287	6923232.899	128.105	475	2872.101	0.021	-0.011	0.021	2872.122	2.237	979131.401	-25.527	39.533	-14.335	-0.328
23206720	2320	6720	28/08/2006	240	10:36:07	-27 48 50.85389	135 40 56.84898	145.927	567216.688	6923200.764	138.207	475	2870.681	0.032	-0.02	0.018	2870.699	3.66	979129.978	-26.968	42.651	-15.465	0.217
23206800	2320	6800	28/08/2006	240	10:11:09	-27 48 50.83074	135 41 25.29494	111.669	567994.963	6923197.125	103.929	475	2877.077	0.031	-0.035	0.013	2877.09	-2.731	979136.369	-20.577	32.072	-11.63	-0.134
24006000	2400	6000	28/08/2006	240	12:00:18	-27 48 26.36205	135 36 32.85229	88.315	559997.602	6923992.39	80.802	475	2873.791	0.094	0.037	0.035	2873.826	0.533	979133.105	-23.334	24.935	-9.042	-7.441
24006080	2400	6080	28/08/2006	240	12:09:53	-27 48 26.03771	135 37 02.06774	93.85	560797.02	6923998.379	86.313	475	2871.785	0.03	0.044	0.037	2871.822	2.537	979131.101	-25.332	26.636	-9.658	-8.354
24006160	2400	6160	28/08/2006	240	12:19:39	-27 48 25.82786	135 37 31.44614	98.442	561600.881	6924000.77	90.88	475	2870.136	0.045	0.05	0.039	2870.175	4.184	979129.454	-26.974	28.046	-10.169	-9.098
24006240	2400	6240	28/08/2006	240	12:28:57	-27 48 25.92738	135 38 00.39267	98.495	562392.877	6923993.649	90.908	475	2870.582	0.037	0.056	0.04	2870.622	3.737	979129.901	-26.529	28.054	-10.173	-8.648
24006320	2400	6320	28/08/2006	240	12:37:15	-27 48 25.71244	135 38 30.06914	109.305	563204.896	6923996.047	101.694	475	2869.747	0.03	0.061	0.042	2869.789	4.57	979129.068	-27.358	31.383	-11.38	-7.355
24006400	2400	6400	28/08/2006	240	12:48:45	-27 48 25.37969	135 38 59.03835	121.374	563997.585	6924002.119	113.74	475	2868.881	0.03	0.067	0.044	2868.925	5.434	979128.204	-28.215	35.1	-12.727	-5.842
24006480	2400	6480	28/08/2006	240	12:59:57	-27 48 25.33036	135 39 28.41348	126.438	564801.335	6923999.359	118.781	475	2869.428	0.026	0.073	0.047	2869.475	4.884	979128.754	-27.664	36.656	-13.292	-4.3
24006560	2400	6560	28/08/2006	240	13:12:37	-27 48 25.02159	135 39 57.50011	130.268	565597.236	6924004.57	122.588	475	2869.655	0.02	0.08	0.049	2869.704	4.655	979128.983	-27.428	37.831	-13.718	-3.315
24006640	2400	6640	28/08/2006	240	13:24:34	-27 48 24.92941	135 40 26.85579	128.114	566400.464	6924003.025	120.413	475	2871.903	0.03	0.085	0.051	2871.954	2.405	979131.233	-25.177	37.159	-13.474	-1.491
24006720	2400	6720	28/08/2006	240	13:38:12	-27 48 25.01392	135 40 55.24116	170.529	567177.114	6923996.136	162.808	475	2863.872	0.048	0.09	0.054	2863.926	10.433	979123.205	-33.206	50.243	-18.218	-1.182
24006800	2400	6800	28/08/2006	240	13:51:31	-27 48 25.37453	135 41 24.76982	116.304	567984.999	6923980.526	108.563	475	2873.935	0.047	0.094	0.057	2873.992	0.367	979133.271	-23.148	33.503	-12.148	-1.794
24806400	2480	6400	28/08/2006	240	14:42:17	-27 47 59.17948	135 38 59.10002	114.176	564003.537	6924808.32	106.537	475	2869.077	0.021	0.1	0.067	2869.144	5.215	979128.423	-27.454	32.877	-11.921	-6.498
24806480	2480	6480	28/08/2006	240	14:34:49	-27 47 59.46139	135 39 28.33209	124.2	564803.372	6924795.388	116.538	475	2868.02	0.028	0.1	0.065	2868.085	6.274	979127.364	-28.519	35.964	-13.041	-5.596
24806560	2480	6560	28/08/2006	240	14:28:27	-27 47 59.15228	135 39 57.57283	122.92	565603.542	6924800.589	115.235	475	2869.156	0.024	0.1	0.064	2869.22	5.139	979128.499	-27.377	35.562	-12.895	-4.711
24806640	2480	6640	28/08/2006	240	14:22:10	-27 47 58.98502	135 40 26.68828	121.776	566400.262	6924801.39	114.071	475	2871.13	0.07	0.099	0.063	2871.193	3.166	979130.472	-25.401	35.202	-12.765	-2.963
24806720	2480	6720	28/08/2006	240	14:14:57	-27 47 58.53346	135 40 55.97789	140.281	567201.798	6924810.861	132.557	475	2868.694	0.025	0.098	0.061	2868.755	5.604	979128.034	-27.829	40.907	-14.833	-1.755
24806800	2480	6800	28/08/2006	240	14:02:15	-27 47 58.33441	135 41 24.26894	111.069	567975.969	6924812.662	103.326	475	2873.31	0.046	0.096	0.059	2873.369	0.99	979132.648	-23.211	31.886	-11.562	-2.887
5101	0	5101	29/08/2006	241	9:35:04	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.638	0.033	-0.057	0	2874.638	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	29/08/2006	241	9:37:54	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.627	0.024	-0.056	0.011	2874.638	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	29/08/2006	241	14:53:07	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.489	0.058	0.098	0.138	2874.627	0	979133.638	-24.139	38.556	-13.981	0.436
5101	0	5101	29/08/2006	241	14:55:30	-27 49 30.98900	135 40 04.73180	132.616	565784.062	6921973.597	124.939	475	2874.479	0.035	0.099	0.01	2874.489	0	979133.638	-24.139	38.556	-13.981	0.436
22406480	2240	6480	29/08/2006	241	14:38:42	-27 49 17.46670	135 39 28.31416	124.268	564790.023	6922395.076	116.619	475	2873.292	0.021	0.096	0.132	2873.424	1.203	979132.435	-25.062	35.989	-13.05	-2.123
24806000	2480	6000	29/08/2006	241	10:51:23	-27 47 59.79466	135 36 32.78799	87.685	559999.897	6924809.903	80.165	475	2873.811	0.048	-0.023	0.032	2873.843	0.784	979132.854	-23.035	24.739	-8.97	-7.267
24806080	2480	6080	29/08/2006	241	10:44:52	-27 47 59.40128	135 37 02.10275	88.283	560802.097	6924818.004	80.738	475	2872.866	0.029	-0.027	0.029	2872.895	1.732	979131.906	-23.975	24.916	-9.035	-8.094
24806160	2480	6160	29/08/2006	241	10:38:21	-27 47 59.84662	135 37 31.19693	91.581	561598.132	6924800.274	84.012	475	2871.577	0.034	-0.031	0.026	2871.603	3.024	979130.614	-25.277	25.926	-9.401	-8.751
24806240	2480	6240	29/08/2006	241	10:32:14	-27 47 59.74211	135 38 00.68936	99.438	562405.151	6924799.355	91.845	475	2870.241	0.039	-0.034	0.024	2870.265	4.362	979129.276	-26.612	28.343	-10.277	-8.546
24806320	2480	6320	29/08/2006	241	10:26:37	-27 47 59.57357	135 38 29.57977	107.505	563195.708	6924800.439	99.889	475	2869.558	0.033	-0.036	0.021	2869.579	5.048	979128.59	-27.295	30.826	-11.178	-7.647
24806400	2480	6400	29/08/2006	241	10:17:27	-27 47 59.17647	135 38 59.09753	114.197	564003.469	6924808.413	106.558	475	2869.392	0.031	-0.041	0.017	2869.409	5.218	979128.42	-27.457	32.884	-11.924	-6.497
25606000	2560	6000	29/08/2006	241	10:58:49	-27 47 34.26653	135 36 32.78912	89.347	560003.822	6925595.428	81.821	475	2873.193	0.049	-0.019	0.035	2873.228	1.399	979132.239	-23.122	25.25	-9.156	-7.028
25606080	2560	6080	29/08/2006	241	11:04:28	-27 47 34.10596	135 37 01.82180	91.788	560798.319	6925596.404	84.237	475	2871.732	0.046	-0.016	0.038	2871.77	2.857	979130.781	-24.577	25.996	-9.426	-8.008
25606160	2560	6160	29/08/2006	241	11:12:59	-27 47 34.04554	135 37 31.09367	91.552	561599.347	6925594.214	83.978	475	2871.506	0.053	-0.01	0.042	2871.548	3.079	979130.559	-24.798	25.916	-9.397	-8.279
25606240	2560	6240	29/08/2006	241	11:19:05	-27 47 34.05494	135 38 00.15852	94.765	562394.7	6925589.851	87.167	475	2871.31	0.024	-0.007	0.044	2871.354	3.273	979130.365	-24.992	26.9	-9.754	-7.846
25606320	2560	6320	29/08/2006	241	11:26:16	-27 47 33.40787	135 38 28.98429	99.186	563183.617	6925605.67	91.566	475	2871.097	0.032	-0.002	0.047	2871.144	3.483	979130.155	-25.189	28.257	-10.246	-7.177
25606400	2560	6400	29/08/2006	241	11:32:46	-27 47 33.37903	135 38 58.53186	106.228	563992.188	6925602.31	98.585	475	2870.255	0.035	0.001	0.05	2870.305	4.322	979129.316	-26.027	30.423	-11.032	-6.635
25606480	2560	6480	29/08/2006	241	11:38:38	-27 47 33.18888	135 39 27.59637	111.438	564787.568	6925603.931	103.774	475	2869.61	0.036	0.005	0.053	2869.663	4.964	979128.674	-26.665	32.025	-11.612	-6.253
25606560	2560	6560	29/08/2006	241	11:44:49	-27 47 33.11953	135 39 57.30105	110.952	565600.447	6925601.686	103.265	475	2869.849	0.035	0.009	0.056	2869.905	4.722	979128.916	-26.422	31.868	-11.555	-6.109
25606640	2560	6640	29/08/2006	241	11:52:37	-27 47 33.08716	135 40 26.39606	115.864	566396.638	6925598.341	108.157	475	2870.818	0.031	0.014	0.059	2870.877	3.75	979129.888	-25.449	33.377	-12.103	-4.174
25606720	2560	6720	29/08/2006	241	12:40:47	-27 47 33.10595	135 40 55.92513	121.797	567204.699	6925593.304	114.071	475	2871.16	0.035	0.045	0.08	2871.24	3.387	979130.251	-25.086	35.202	-12.765	-2.649
25606800	2560	6800	29/08/2006	241	12:50:56	-27 47 32.00486	135 41 24.45215	111.112	567985.532	6925622.826	103.367	475	2871.782	0.029	0.051	0.085	2871.867	2.76	979130.878	-24.436	31.899	-11.567	-4.104
26406000	2640	6000	29/08/2006	241	14:07:59	-27 47 07.98477	135 36 32.55513	90.421	560001.427	6926404.174	82.887	475	2872.613	0.032	0.088	0.118	2872.731	1.896	979131.742	-23.076	25.579	-9.275	-6.772
26406080	2640	6080	29/08/2006	241	14:02:50	-27 47 07.86940	135 37 01.99776	92.607	560807.189	6926403.704	85.05	475	2871.331	0.069	0.086	0.116	2871.447	3.18	979130.458	-24.357	26.246	-9.517	-7.628
26406160	2640	6160	29/08/2006	241	13:56:44	-27 47 07.78903	135 37 31.02234	90.107	561601.506	6926402.162	82.526	475	2871.716	0.037	0.084	0.113	2871.829	2.798	979130.84	-23.974	25.468	-9.235	-7.741
26406240	2640	6240	29/08/2006	241	13:49:05	-27 47 07.69245	135 38 00.13912	101.095	562398.35	6926401.054	93.491	475	2869.811	0.043	0.081	0.11	2869.921	4.706	979128.932	-25.88	28.851	-10.462	-7.49
26406320	2640	6320	29/08/2006	241	13:42:24	-27 47 07.49527	135 38 29.80419	106.046	563210.216	6926402.91	98.421	475	2869.29	0.042	0.078	0.107	2869.397	5.23	979128.408	-26.399	30.373	-11.013	-7.04
26406400	2640	6400	29/08/2006	241	13:35:04	-27 47 07.63804	135 38 58.23955	107.785	563988.375	6926394.43	100.139	475	2869.266	0.041	0.075	0.104	2869.37	5.257	979128.381	-26.429	30.903	-11.206	-6.732
26406480	2640	6480	29/08/2006	241	13:26:54	-27 47 07.36797	135 39 28.21320	105.494	564808.7	6926398.377	97.826	475	2869.989	0.029	0.071	0.1	2870.089	4.538	979129.1	-25.705	30.189	-10.947	-6.462
26406560	2640	6560	29/08/2006	241	13:21:01	-27 47 07.09035	135 39 57.52732	104.445	565610.98	6926402.599	96.755	475	2869.338	0.029	0.068	0.098	2869.436	5.191	979128.447	-26.352	29.859	-10.827	-7.32
26406640	2640	6640	29/08/2006	241	13:15:12	-27 47 06.94292	135 40 26.12211	108.196	566393.553	6926402.87	100.488	475	2868.917	0.035	0.065	0.095	2869.012	5.615	979128.023	-26.773	31.011	-11.245	-7.007
26406720	2640	6720	29/08/2006	241	13:09:35	-27 47 06.97596	135 40 55.56489	115.37	567199.304	6926397.409	107.642	475	2869.62	0.024	0.062	0.093	2869.713	4.914	979128.724	-26.073	33.218	-12.045	-4.899
26406800	2640	6800	29/08/2006	241	12:57:04	-27 47 06.79201	135 41 24.92051	107.877	568002.707	6926398.584	100.13	475	2870.415	0.045	0.054	0.087	2870.502	4.125	979129.513	-25.28	30.9	-11.205	-5.584
5102	0	5102	30/08/2006	242	8:56:44	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.678	0.021	-0.06	0	2863.678	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	30/08/2006	242	8:59:33	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.684	0.024	-0.06	-0.006	2863.678	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	30/08/2006	242	11:23:08	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.655	0.026	-0.019	0.029	2863.684	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	30/08/2006	242	11:26:15	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.665	0.022	-0.018	-0.01	2863.655	0	979122.441	-28.763	32.442	-11.764	-8.085

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
5102	0	5102	30/08/2006	242	15:47:43	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.667	0.029	0.096	-0.002	2863.665	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	30/08/2006	242	15:50:08	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.675	0.027	0.096	-0.008	2863.667	0	979122.441	-28.763	32.442	-11.764	-8.085
29605360	2960	5360	30/08/2006	242	15:38:08	-27 45 25.02585	135 32 37.86865	99.674	553592.897	6929602.408	92.311	475	2870.144	0.031	0.095	-0.002	2870.142	-6.477	979128.918	-23.771	28.487	-10.33	-5.613
29605440	2960	5440	30/08/2006	242	15:33:01	-27 45 25.18875	135 33 07.03586	101.946	554391.285	6929593.84	94.556	475	2870.19	0.072	0.094	-0.002	2870.188	-6.523	979128.964	-23.728	29.18	-10.581	-5.129
29605520	2960	5520	30/08/2006	242	15:28:11	-27 45 24.88866	135 33 36.49951	100.66	555197.852	6929599.428	93.244	475	2871.566	0.034	0.094	-0.002	2871.564	-7.899	979130.34	-22.346	28.775	-10.434	-4.005
29605600	2960	5600	30/08/2006	242	15:18:56	-27 45 24.50826	135 34 05.42056	102.659	555989.58	6929607.503	95.218	475	2871.817	0.05	0.092	-0.002	2871.815	-8.15	979130.591	-22.087	29.384	-10.655	-3.357
29605680	2960	5680	30/08/2006	242	15:13:28	-27 45 24.48963	135 34 34.69110	103.064	556790.824	6929604.349	95.599	475	2871.673	0.039	0.091	-0.002	2871.671	-8.006	979130.447	-22.231	29.502	-10.697	-3.426
29605760	2960	5760	30/08/2006	242	15:07:20	-27 45 24.51851	135 35 03.87049	101.552	557589.567	6929599.692	94.064	475	2871.521	0.025	0.089	-0.002	2871.519	-7.854	979130.295	-22.383	29.028	-10.526	-3.881
29605840	2960	5840	30/08/2006	242	14:57:06	-27 45 24.42061	135 35 33.23641	103.116	558393.436	6929598.859	95.604	475	2870.193	0.051	0.087	-0.002	2870.191	-6.526	979128.967	-23.709	29.503	-10.698	-4.904
29605920	2960	5920	30/08/2006	242	14:50:24	-27 45 24.15582	135 36 02.55037	101.841	559195.908	6929603.116	94.305	475	2869.488	0.04	0.085	-0.002	2869.486	-5.821	979128.262	-24.409	29.103	-10.553	-5.859
29606000	2960	6000	30/08/2006	242	14:44:44	-27 45 24.11835	135 36 31.76565	104.041	559995.646	6929600.337	96.484	475	2868.077	0.038	0.083	-0.002	2868.075	-4.41	979126.851	-25.819	29.775	-10.797	-6.84
30405360	3040	5360	30/08/2006	242	13:43:41	-27 44 59.12901	135 32 37.92356	101.617	553597.922	6930399.261	94.247	475	2868.467	0.025	0.057	-0.001	2868.466	-4.801	979127.242	-24.911	29.085	-10.546	-6.373
30405440	3040	5440	30/08/2006	242	13:50:00	-27 44 58.88268	135 33 07.14118	103.538	554397.799	6930403.28	96.142	475	2868.828	0.045	0.06	-0.001	2868.827	-5.162	979127.603	-24.545	29.669	-10.758	-5.634
30405520	3040	5520	30/08/2006	242	13:55:34	-27 44 58.76224	135 33 36.23086	104.521	555194.158	6930403.387	97.099	475	2869.581	0.062	0.063	-0.001	2869.58	-5.915	979128.356	-23.79	29.965	-10.865	-4.69
30405600	3040	5600	30/08/2006	242	14:05:41	-27 44 58.75516	135 34 05.50830	103.489	555995.641	6930399.931	96.041	475	2870.85	0.042	0.068	-0.001	2870.849	-7.184	979129.625	-22.521	29.638	-10.747	-3.629
30405680	3040	5680	30/08/2006	242	14:12:09	-27 44 58.46753	135 34 34.99958	111.541	556803.019	6930405.027	104.07	475	2869.31	0.045	0.071	-0.001	2869.309	-5.644	979128.085	-24.055	32.116	-11.645	-3.584
30405760	3040	5760	30/08/2006	242	14:18:19	-27 44 58.47227	135 35 04.11877	105.098	557600.171	6930401.121	97.604	475	2870.435	0.031	0.073	-0.001	2870.434	-6.769	979129.21	-22.93	30.121	-10.922	-3.731
30405840	3040	5840	30/08/2006	242	14:25:56	-27 44 58.34272	135 35 33.09061	107.402	558393.309	6930401.314	99.884	475	2868.927	0.037	0.076	-0.001	2868.926	-5.261	979127.702	-24.435	30.824	-11.177	-4.788
30405920	3040	5920	30/08/2006	242	14:32:18	-27 44 58.23739	135 36 02.84143	108.095	559207.77	6930400.606	100.554	475	2867.656	0.058	0.079	-0.001	2867.655	-3.99	979126.431	-25.704	31.031	-11.252	-5.925
30406000	3040	6000	30/08/2006	242	14:38:19	-27 44 58.09881	135 36 31.61861	99.541	559995.583	6930400.998	91.979	475	2868.645	0.024	0.081	-0.001	2868.644	-4.979	979127.42	-24.712	28.385	-10.292	-6.62
31205360	3120	5360	30/08/2006	242	13:36:18	-27 44 33.11968	135 32 37.70179	103.604	553595.388	6931199.609	96.227	475	2866.872	0.036	0.053	-0.001	2866.871	-3.206	979125.647	-25.969	29.696	-10.768	-7.041
31205440	3120	5440	30/08/2006	242	13:30:24	-27 44 32.95557	135 33 06.93439	106.954	554395.716	6931201.096	99.551	475	2866.997	0.032	0.05	-0.001	2866.996	-3.331	979125.772	-25.84	30.721	-11.14	-6.259
31205520	3120	5520	30/08/2006	242	13:24:16	-27 44 32.88335	135 33 35.97007	106.695	555190.642	6931199.728	99.266	475	2868.132	0.042	0.047	-0.001	2868.131	-4.466	979126.907	-24.704	30.633	-11.108	-5.178
31205600	3120	5600	30/08/2006	242	13:15:51	-27 44 32.67597	135 34 05.29576	108.869	555993.527	6931202.43	101.415	475	2868.683	0.026	0.043	-0.001	2868.682	-5.017	979127.458	-24.149	31.297	-11.348	-4.2
31205680	3120	5680	30/08/2006	242	13:09:25	-27 44 32.67595	135 34 34.55224	118.338	556794.49	6931198.707	110.861	475	2866.989	0.044	0.039	-0.001	2866.988	-3.323	979125.764	-25.843	34.212	-12.405	-4.036
31205760	3120	5760	30/08/2006	242	13:02:51	-27 44 32.46556	135 35 03.71496	112.575	557592.916	6931201.416	105.075	475	2868.277	0.028	0.035	-0.001	2868.276	-4.611	979127.052	-24.55	32.426	-11.758	-3.882
31205840	3120	5840	30/08/2006	242	12:56:25	-27 44 32.44937	135 35 32.83525	110.759	558390.154	6931198.103	103.236	475	2868.054	0.026	0.031	-0.001	2868.053	-4.388	979126.829	-24.773	31.859	-11.552	-4.466
31205920	3120	5920	30/08/2006	242	12:50:42	-27 44 32.39585	135 36 02.11855	104.764	559191.861	6931195.865	97.218	475	2868.398	0.034	0.029	-0.001	2868.397	-4.732	979127.173	-24.428	30.001	-10.879	-5.305
31206000	3120	6000	30/08/2006	242	12:42:19	-27 44 32.16081	135 36 31.47227	105.439	559995.525	6931199.149	97.873	475	2867.11	0.038	0.023	-0.001	2867.109	-3.444	979125.885	-25.711	30.204	-10.952	-6.459
32005360	3200	5360	30/08/2006	242	11:33:42	-27 44 07.04018	135 32 37.69533	108.326	553598.756	6932002.089	100.941	475	2864.506	0.052	-0.014	0	2864.506	-0.841	979123.282	-27.795	31.15	-11.295	-7.94
32005440	3200	5440	30/08/2006	242	11:40:24	-27 44 06.96420	135 33 07.01404	110.457	554401.483	6932000.855	103.047	475	2864.981	0.044	-0.011	0	2864.981	-1.316	979123.757	-27.318	31.8	-11.531	-7.049
32005520	3200	5520	30/08/2006	242	11:46:05	-27 44 06.87096	135 33 36.12603	110.839	555198.553	6932000.124	103.403	475	2865.809	0.037	-0.008	0	2865.809	-2.144	979124.585	-26.488	31.91	-11.571	-6.149
32005600	3200	5600	30/08/2006	242	11:55:33	-27 44 06.81500	135 34 05.52025	112.323	556003.346	6931998.158	104.862	475	2866.602	0.035	-0.002	0	2866.602	-2.937	979125.378	-25.694	32.36	-11.734	-5.068
32005680	3200	5680	30/08/2006	242	12:03:14	-27 44 06.41946	135 34 34.83198	120.876	556805.931	6932006.599	113.393	475	2865.147	0.047	0.001	0	2865.147	-1.482	979123.923	-27.141	34.993	-12.689	-4.837
32005760	3200	5760	30/08/2006	242	12:12:04	-27 44 06.50695	135 35 03.86911	116.828	557600.929	6932000.159	109.322	475	2866.358	0.048	0.006	0	2866.358	-2.693	979125.134	-25.932	33.737	-12.233	-4.428
32005840	3200	5840	30/08/2006	242	12:18:40	-27 44 06.16948	135 35 32.84655	110.825	558394.356	6932006.751	103.296	475	2867.618	0.107	0.01	0	2867.618	-3.953	979126.394	-24.665	31.877	-11.559	-4.347
32005920	3200	5920	30/08/2006	242	12:25:29	-27 44 05.78382	135 36 02.15433	105.543	559196.836	6932014.73	97.992	475	2868.327	0.041	0.014	0	2868.327	-4.662	979127.103	-23.948	30.24	-10.965	-4.673
32006000	3200	6000	30/08/2006	242	12:32:39	-27 44 05.96928	135 36 31.32320	118.45	559995.429	6932005.101	110.878	475	2864.372	0.045	0.018	-0.001	2864.371	-0.706	979123.147	-27.908	34.217	-12.407	-6.098
5102	0	5102	31/08/2006	243	7:42:14	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.102	0.022	-0.043	0	2864.102	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	31/08/2006	243	7:46:02	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.095	0.019	-0.043	0.007	2864.102	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	31/08/2006	243	15:56:51	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.983	0.031	0.084	0.112	2864.095	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	31/08/2006	243	15:59:20	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2863.972	0.026	0.085	0.011	2863.983	0	979122.441	-28.763	32.442	-11.764	-8.085
31204080	3120	4080	31/08/2006	243	10:01:21	-27 44 34.65306	135 24 50.52792	107.865	540805.409	6931202.193	100.918	475	2846.284	0.029	-0.051	0.031	2846.315	17.78	979104.661	-46.987	31.143	-11.293	-27.136
31204160	3120	4160	31/08/2006	243	10:07:23	-27 44 34.44540	135 25 19.49924	110.952	541598.572	6931205.889	103.98	475	2847.008	0.036	-0.05	0.032	2847.04	17.055	979105.386	-46.257	32.088	-11.635	-25.804
31204240	3120	4240	31/08/2006	243	10:13:15	-27 44 34.66836	135 25 48.69848	107.926	542397.93	6931196.261	100.929	475	2848.627	0.079	-0.049	0.034	2848.661	15.434	979107.007	-44.641	31.147	-11.294	-24.788
31204320	3120	4320	31/08/2006	243	10:19:27	-27 44 34.35910	135 26 18.07832	106.817	543202.289	6931202.939	99.794	475	2848.879	0.061	-0.048	0.035	2848.914	15.181	979107.26	-44.381	30.796	-11.167	-24.752
31204400	3120	4400	31/08/2006	243	10:30:32	-27 44 34.30921	135 26 47.19267	104.452	543999.354	6931201.609	97.402	475	2849.379	0.037	-0.046	0.038	2849.417	14.678	979107.763	-43.877	30.058	-10.899	-24.718
31204480	3120	4480	31/08/2006	243	10:42:13	-27 44 34.19435	135 27 16.41124	106.477	544799.279	6931202.215	99.4	475	2849.242	0.046	-0.044	0.04	2849.282	14.813	979107.628	-44.01	30.675	-11.123	-24.458
31204560	3120	4560	31/08/2006	243	10:48:47	-27 44 34.20916	135 27 45.65596	105.482	545599.907	6931198.776	98.377	475	2850.284	0.044	-0.042	0.042	2850.326	13.769	979108.672	-42.966	30.359	-11.008	-23.616
31204640	3120	4640	31/08/2006	243	10:54:42	-27 44 34.08929	135 28 14.86013	104.797	546399.44	6931199.433	97.665	475	2851.513	0.051	-0.04	0.043	2851.556	12.539	979109.902	-41.734	30.139	-10.929	-22.523
31204720	3120	4720	31/08/2006	243	11:01:17	-27 44 33.98150	135 28 44.22428	103.582	547203.353	6931199.648	96.423	475	2853.44	0.041	-0.039	0.045	2853.485	10.61	979111.831	-39.803	29.756	-10.79	-20.836
31204800	3120	4800	31/08/2006	243	11:07:55	-27 44 33.78555	135 29 13.24958	102.874	547998.001	6931202.559	95.686	475	2855.405	0.05	-0.037	0.046	2855.451	8.644	979113.797	-37.832	29.529	-10.707	-19.011
31204880	3120	4880	31/08/2006	243	11:16:19	-27 44 34.00843	135 29 42.53438	102.691	548799.703	6931192.502	95.476	475	2857.532	0.05	-0.034	0.048	2857.58	6.515	979115.926	-35.708	29.464	-10.684	-16.928
31204960	3120	4960	31/08/2006	243	11:23:02	-27 44 33.60656	135 30 11.69260	102.787	549598.017	6931201.63	95.545	475	2859.53	0.043	-0.032	0.05	2859.58	4.515	979117.926	-33.7	29.485	-10.691	-14.906
31205040	3120	5040	31/08/2006	243	11:33:09	-27 44 33.57075	135 30 40.82076	103.847	550395.465	6931199.445	96.577	475	2861.015	0.038	-0.028	0.052	2861.067	3.028	979119.413	-32.212	29.804	-10.807	-13.215
31205120	3120	5120	31/08/2006	243	11:40:38	-27 44 33.32827	135 31 09.96577	103.434	551193.401	6931203.565	96.136	475	2862.84	0.032	-0.025	0.054	2862.894	1.201	979121.24	-30.38	29.668	-10.758	-11.47
31205200	3120	5200	31/08/2006	243	11:50:02	-27 44 33.33725	135 31 39.29657	103.435	551996.391	6931199.874	96.11	475	2864.606	0.051	-0.022	0.056	2864.662	-0.567	979123.008	-28.612	29.66	-10.755	-9.707
31205280	3120	5280	31/08/2006	243	12:01:03	-27 44 33.17486	135 32 08.47998	102.158	552795.371	6931201.419	94.806	475	2866.446	0.029	-0.017	0.058	2866.504	-2.409	979124.85	-26.767	29.257	-10.609	-8.119
32004080	3200	4080	31/08/2006	243	9:50:09	-27 44 08.61138	135 24 50.06436	108.603	540795.413	6932003.543	101.646	475	2845.026	0.035	-0.052	0.028	2845.054	19.041	979103.4	-47.709	31.368	-11.374	-27.716
32004160	3200	4160	31/08/2006	243	9:44:37	-27 44 08.58271	135 25 19.65078	106.973	541605.45	6932001.674	99.991	475	2846.481	0.043	-0.053	0.027	2846.508	17.587	979104.854	-46.255	30.857	-11.189	-26.587
32004240	3200	4240	31/08/2006	243	9:39:18	-27 44 08.52527	135 25 48.66006	107.738	542399.689	6932000.692	100.731	475	2847.343	0.041	-0.053	0.026	2847.369	16.726	979105.715	-45.393	31.086	-11.272	-25.579
32004320	3200	4320	31/08/2006	243	9:33:00	-27 44 08.44638	135 26 17.92225	106.593	543200.856	6932000.294	99.56	475	2848.208	0.035	-0.053	0.024	2848.232	15.863	979106.578	-44.528	30.724	-11.141	-24.944
32004400	3200	4400	31/08/2006	243	9:25:55	-27 44 08.26770	135 26 47.16354	106.354	544001.463	6932002.915	99.294	475	2848.715	0.03	-0.053	0.023	2848.738	15.357	979107.084	-44.018	30.642	-11.111	-24.487
32004480	3200	4480	31/08/2006	243	9:19:57	-27 44 08.33465	135 27 16.37050	107.924	544801.102	6931997.929	100.837	475	2848.907	0.033	-0.053	0.021	2848.928	15.167	979107.274	-43.83	31.118	-11.284	-23.995
32004560	3200	4560	31/08/2006	243	9:13:51	-27 44 08.21301	135 27 45.44069	107.2	545597.019	6931998.707	100.086	475	2849.985	0.042	-0.053	0.02	2850.005	14.09	979108.351	-42.75	30.887	-11.2	-23.063
32004640	3200	4640	31/08/2006	243	9:07:42	-27 44 08.05617	135 28 14.81377	105.976	546401.235	6932000.485	98.835	475	2851.453	0.065	-0.053	0.019	2851.472	12.623	979109.818	-41.28	30.5	-11.06	-21.839
32004720	3200	4720	31/08/2006	243	9:01:44	-27 44 07.85832	135 28 43.87983	105.266	547197.05	6932003.503	98.098	475	2853.149	0.034	-0.053	0.017	2853.166	10.929	979111.512	-39.582	30.273	-10.977	-20.286
32004800	3200	4800	31/08/2006	243	8:55:01	-27 44 07.78813	135 29 13.10241	104.551	547997.137	6932002.524	97.355	475	2854.888	0.06	-0.053	0.016	2854.904	9.191	979113.25	-37.842	30.044	-10.894	-18.693
32004880	3200	4880	31/08/2006	243	8:47:29	-27 44 07.72019	135 29 42.31109	104.016	548796.843	6932001.425	96.792	475	2856.708	0.042	-0.052	0.014	2856.722	7.373	979115.068	-36.023	29.87	-10.831	-16.984
32004960	3200	4960	31/08/2006	243	8:39:43	-27 44 07.66082	135 30 11.49785	105.059	549595.95	6932000.012	97.808	475	2858.13	0.04	-0.052	0.012	2858.142	5.953	979116.488	-34.602	30.184	-10.945	-15.363
32005040	3200	5040	31/08/2006	243	8:33:32	-27 44 07.42065	135 30 40.72036	107.739	550396.058	6932004.106	100.461	475	2859.315	0.035	-0.051	0.011	2859.326	4.769	979117.672	-33.413	31.002	-11.242	-13.652
32005120	3200	5120	31/08/2006	243	8:27:55	-27 44 07.36877	135 31 10.01124	106.915	551198.016	6932002.345	99.609	475	2861.122	0.028	-0.05	0.01	2861.132	2.963	979119.478	-31.606	30.739	-11.146	-12.013
32005200	3200	5200	31/08/2006	243	8:20:46	-27 44 07.25641	135 31 39.26470	106.191	551998.958	6932002.397	98.858	475	2862.616	0.03	-0.049	0.008	2862.624	1.471	979120.97	-30.111	30.508	-11.062	-10.666
32005280	3200	5280	31/08/2006	243	8:15:04	-27 44 07.20641	135 32 08.66381	104.736	552803.881	6932000.459	97.376	475	2864.381	0.045	-0.048	0.007	2864.388	-0.293	979122.734	-28.346	30.05	-10.896	-9.192
32005360	3200	5360	31/08/2006	243	8:08:39	-27 44 07.04111	135 32 37.69412	108.329	553598.723	6932002.061	100.944	475	2864.877	0.026	-0.047	0.005	2864.882	-0.787	979123.228	-27.849	31.151	-11.296	-7.993
32005440	3200	5440	31/08/2006	243	15:50:56	-27 44 06.96249	135 33 07.01473	110.467	554401.502	6932000.907	103.056	475	2865.271	0.038	0.082	0.111	2865.382	-1.287	979123.728	-27.347	31.803	-11.532	-7.076
32805280	3280	5280	31/08/2006	243	12:46:55	-27 43 41.28624	135 32 08.30439	108.23	552797.51	6932798.077	100.865	475	2862.356	0.031	0.002	0.069	2862.425	1.67	979120.771	-29.774	31.127	-11.287	-9.934
32805360	3280	5360	31/08/2006	243	12:53:54	-27 43 40.96419	135 32 37.51018	122.176	553597.23	6932804.482	114.786	475	2860.536	0.027	0.006	0.07	2860.606	3.489	979118.952	-31.586	35.423	-12.845	-9.008
32805440	3280	5440	31/08/2006	243	13:01:11	-27 43 40.89359	135 33 06.61394	122.65	554394.124	6932803.109	115.235	475	2861.373	0.031	0.009	0.072	2861.445	2.65	979119.791	-30.746	35.562	-12.895	-8.079
32805520	3280	5520	31/08/2006	243	13:09:28	-27 43 40.79769	135 33 35.95114	110.804	555197.414	6932802.434	103.364	475	2864.719	0.022	0.013	0.074	2864.793	-0.698	979123.139	-27.396	31.898	-11.566	-7.064
32805600	3280	5600	31/08/2006	243	13:22:00	-27 43 40.61112	135 34 05.16796	116.282	555997.421	6932804.51	108.817	475	2864.054	0.038	0.019	0.077	2864.131	-0.036	979122.477	-28.054	33.581	-12.177	-6.65
32805680	3280	5680	31/08/2006	243	13:29:21	-27 43 40.60364	135 34 34.26564	121.938	556794.142	6932801.038	114.451	475	2863.353	0.033	0.023	0.078	2863.431	0.664	979121.777	-28.754	35.32	-12.807	-6.241
32805760	3280	5760	31/08/2006	243	13:37:02	-27 43 40.42339	135 35 03.38687	120.261	557591.534	6932802.828	112.751	475	2864.311	0.041	0.027	0.08	2864.391	-0.296	979122.737	-27.79	34.795	-12.617	-5.612
32805840	3280	5840	31/08/2006	243	13:47:27	-27 43 40.38203	135 35 32.54589	114.047	558389.941	6932800.286	106.515	475	2866.271	0.024	0.032	0.082	2866.353	-2.258	979124.699	-25.827	32.871	-11.919	-4.876
32805920	3280	5920	31/08/2006	243	13:54:53	-27 43 40.21869	135 36 01.38552	106.084	559179.623	6932801.487	98.53	475	2868.343	0.028	0.036	0.084	2868.427	-4.332	979126.773	-23.75	30.406	-11.025	-4.369
32806000	3280	6000	31/08/2006	243	14:03:17	-27 43 40.08202	135 36 31.34560	120.959	559999.98	6932801.666	113.385	475	2864.354	0.031	0.04	0.086	2864.44	-0.345	979122.786	-27.734	34.991	-12.688	-5.431
33605280	3360	5280	31/08/2006	243	15:34:57	-27 43 15.11143	135 32 08.25806	114.46	552799.745	6933603.492	107.09	475	2860.438	0.043	0.078	0.107	2860.545	3.55	979118.891	-31.113	33.048	-11.983	-10.048
33605360	3360	5360	31/08/2006	243	15:27:42	-27 43 15.03709	135 32 37.23925	127.15	553593.334	6933602.302	119.756	475	2858.373	0.07	0.075	0.105	2858.478	5.617	979116.824	-33.179	36.957	-13.401	-9.623

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
33605440	3360	5440	31/08/2006	243	15:19:36	-27 43 14.93148	135 33 06.59731	120.393	554397.248	6933601.977	112.973	475	2860.654	0.044	0.073	0.103	2860.757	3.338	979119.103	-30.897	34.863	-12.642	-8.676
33605520	3360	5520	31/08/2006	243	15:11:03	-27 43 14.73121	135 33 35.81960	118.921	555197.459	6933604.528	111.477	475	2861.225	0.028	0.069	0.102	2861.327	2.768	979119.673	-30.323	34.402	-12.474	-8.396
33605600	3360	5600	31/08/2006	243	15:03:52	-27 43 14.73311	135 34 05.12396	138.641	555999.89	6933600.795	131.172	475	2856.844	0.036	0.067	0.1	2856.944	7.151	979115.29	-34.706	40.48	-14.678	-8.905
33605680	3360	5680	31/08/2006	243	14:55:05	-27 43 14.67889	135 34 34.14226	127.49	556794.496	6933598.773	119.999	475	2860.072	0.037	0.063	0.098	2860.17	3.925	979118.516	-31.479	37.032	-13.428	-7.876
33605760	3360	5760	31/08/2006	243	14:47:09	-27 43 14.31408	135 35 03.32747	137.955	557593.719	6933606.233	130.442	475	2858.597	0.036	0.06	0.096	2858.693	5.402	979117.039	-32.949	40.254	-14.596	-7.291
33605840	3360	5840	31/08/2006	243	14:39:18	-27 43 14.44232	135 35 32.59976	133.778	558395.256	6933598.459	126.243	475	2860.667	0.049	0.056	0.094	2860.761	3.334	979119.107	-30.883	38.959	-14.127	-6.051
33605920	3360	5920	31/08/2006	243	14:32:11	-27 43 14.09853	135 36 02.05199	110.334	559201.791	6933605.132	102.777	475	2866.803	0.027	0.053	0.093	2866.896	-2.801	979125.242	-24.741	31.717	-11.501	-4.525
33606000	3360	6000	31/08/2006	243	14:23:48	-27 43 13.93220	135 36 31.30990	108.313	560002.98	6933606.317	100.736	475	2866.861	0.037	0.05	0.091	2866.952	-2.857	979125.298	-24.682	31.087	-11.272	-4.867
5102	0	5102	1/09/2006	244	7:54:17	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.077	0.021	-0.036	0	2864.077	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	1/09/2006	244	7:58:03	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.077	0.027	-0.037	0	2864.077	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	1/09/2006	244	16:02:45	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.13	0.02	0.06	-0.053	2864.077	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	1/09/2006	244	16:05:18	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.129	0.024	0.062	0.001	2864.13	0	979122.441	-28.763	32.442	-11.764	-8.085
29604080	2960	4080	1/09/2006	244	14:05:30	-27 45 26.59459	135 24 50.58130	104.5	540801.493	6929603.936	97.574	475	2847.899	0.047	0.01	-0.04	2847.859	16.218	979106.223	-46.498	30.111	-10.919	-27.305
29604160	2960	4160	1/09/2006	244	14:11:10	-27 45 26.74431	135 25 19.48772	104.057	541592.737	6929596.64	97.106	475	2849.882	0.042	0.012	-0.041	2849.841	14.236	979108.205	-44.519	29.967	-10.866	-25.418
29604240	2960	4240	1/09/2006	244	14:16:48	-27 45 26.60826	135 25 48.88153	104.97	542397.353	6929598.039	97.993	475	2851.015	0.069	0.014	-0.041	2850.974	13.103	979109.338	-43.383	30.241	-10.965	-24.108
29604320	2960	4320	1/09/2006	244	14:23:00	-27 45 26.48334	135 26 18.18701	101.629	543199.551	6929599.051	94.626	475	2851.854	0.033	0.017	-0.042	2851.812	12.265	979110.176	-42.543	29.202	-10.589	-23.93
29604400	2960	4400	1/09/2006	244	14:28:49	-27 45 26.36849	135 26 47.30450	101.233	543996.603	6929599.719	94.202	475	2851.678	0.072	0.02	-0.043	2851.635	12.442	979109.999	-42.717	29.071	-10.541	-24.188
29604480	2960	4480	1/09/2006	244	14:36:58	-27 45 26.26682	135 27 16.62615	102.439	544799.243	6929599.908	95.382	475	2851.333	0.042	0.023	-0.044	2851.289	12.788	979109.653	-43.061	29.435	-10.673	-24.299
29604560	2960	4560	1/09/2006	244	14:43:34	-27 45 26.15080	135 27 45.91298	104.12	545600.933	6929600.489	97.035	475	2851.561	0.044	0.026	-0.044	2851.517	12.56	979109.881	-42.831	29.945	-10.858	-23.744
29604640	2960	4640	1/09/2006	244	14:48:22	-27 45 26.11747	135 28 14.98612	100.2	546396.764	6929598.494	93.087	475	2853.304	0.048	0.028	-0.045	2853.259	10.818	979111.623	-41.088	28.727	-10.416	-22.778
29604720	2960	4720	1/09/2006	244	14:53:25	-27 45 25.98128	135 28 44.44014	99.524	547203.034	6929599.573	92.383	475	2855.019	0.059	0.03	-0.045	2854.974	9.103	979113.338	-39.37	28.509	-10.338	-21.199
29604800	2960	4800	1/09/2006	244	14:58:23	-27 45 25.95754	135 29 13.56515	101.811	548000.286	6929597.173	94.642	475	2856.664	0.045	0.032	-0.046	2856.618	7.459	979114.982	-37.726	29.207	-10.59	-19.11
29604880	2960	4880	1/09/2006	244	15:03:53	-27 45 25.70217	135 29 42.63230	102.021	548795.983	6929601.854	94.824	475	2859.073	0.051	0.035	-0.047	2859.026	5.051	979117.39	-35.313	29.263	-10.611	-16.661
29604960	2960	4960	1/09/2006	244	15:08:37	-27 45 25.62860	135 30 11.84685	102.734	549595.693	6929600.872	95.508	475	2861.414	0.026	0.037	-0.047	2861.367	2.71	979119.731	-32.97	29.474	-10.687	-14.183
29605040	2960	5040	1/09/2006	244	15:14:13	-27 45 25.46117	135 30 41.24649	102.578	550400.483	6929602.705	95.324	475	2863.595	0.032	0.04	-0.048	2863.547	0.53	979121.911	-30.787	29.417	-10.667	-12.036
29605120	2960	5120	1/09/2006	244	15:19:45	-27 45 25.41581	135 31 10.18156	102.338	551192.542	6929600.782	95.056	475	2865.475	0.031	0.042	-0.048	2865.427	-1.35	979123.791	-28.906	29.334	-10.637	-10.208
29605200	2960	5200	1/09/2006	244	15:25:20	-27 45 25.55495	135 31 39.66465	100.251	551999.578	6929593.066	92.942	475	2867.509	0.051	0.044	-0.049	2867.46	-3.383	979125.824	-26.876	28.682	-10.4	-8.594
29605280	2960	5280	1/09/2006	244	15:35:58	-27 45 25.31706	135 32 08.49029	99.705	552788.668	6929596.976	92.368	475	2869.479	0.038	0.049	-0.05	2869.429	-5.352	979127.793	-24.902	28.505	-10.336	-6.733
30404080	3040	4080	1/09/2006	244	13:58:03	-27 45 00.70852	135 24 50.68125	105.889	540806.91	6930400.447	98.952	475	2847.478	0.054	0.006	-0.039	2847.439	16.638	979105.803	-46.383	30.537	-11.073	-26.919
30404160	3040	4160	1/09/2006	244	13:52:46	-27 45 00.58947	135 25 19.67505	106.705	541600.626	6930401.414	99.743	475	2849.11	0.045	0.004	-0.039	2849.071	15.006	979107.435	-44.748	30.781	-11.161	-25.129
30404240	3040	4240	1/09/2006	244	13:47:30	-27 45 00.55352	135 25 49.02597	106.378	542404.111	6930399.737	99.391	475	2850.17	0.04	0.002	-0.038	2850.132	13.945	979108.496	-43.687	30.672	-11.122	-24.136
30404320	3040	4320	1/09/2006	244	13:42:13	-27 45 00.38960	135 26 17.81017	105.968	543192.096	6930402	98.955	475	2850.166	0.047	0	-0.038	2850.128	13.949	979108.492	-43.687	30.538	-11.073	-24.223
30404400	3040	4400	1/09/2006	244	13:36:33	-27 45 00.39052	135 26 47.20744	104.934	543996.847	6930399.078	97.894	475	2850.033	0.041	-0.001	-0.037	2849.996	14.081	979108.36	-43.819	30.21	-10.954	-24.564
30404480	3040	4480	1/09/2006	244	13:29:27	-27 45 00.23855	135 27 16.63183	104.76	544802.358	6930400.806	97.692	475	2850.132	0.04	-0.004	-0.036	2850.096	13.981	979108.46	-43.716	30.148	-10.932	-24.5
30404560	3040	4560	1/09/2006	244	13:22:38	-27 45 00.25283	135 27 45.89322	104.324	545603.389	6930397.38	97.23	475	2850.909	0.065	-0.006	-0.035	2850.874	13.203	979109.238	-42.939	30.005	-10.88	-23.813
30404640	3040	4640	1/09/2006	244	13:15:20	-27 45 00.11916	135 28 15.02389	103.759	546400.859	6930398.468	96.637	475	2851.979	0.046	-0.009	-0.035	2851.944	12.133	979110.308	-41.866	29.822	-10.814	-22.857
30404720	3040	4720	1/09/2006	244	13:07:23	-27 45 59.95402	135 28 44.25839	103.343	547201.177	6930400.461	96.193	475	2853.665	0.029	-0.012	-0.034	2853.631	10.446	979111.995	-40.175	29.685	-10.764	-21.254
30404800	3040	4800	1/09/2006	244	13:00:35	-27 44 59.81156	135 29 13.19899	103.338	547993.447	6930401.735	96.16	475	2855.623	0.033	-0.014	-0.033	2855.59	8.487	979113.954	-38.213	29.675	-10.76	-19.299
30404880	3040	4880	1/09/2006	244	12:54:19	-27 44 59.71688	135 29 42.55200	102.594	548797.003	6930401.441	95.388	475	2858.168	0.028	-0.016	-0.032	2858.136	5.941	979116.5	-35.665	29.437	-10.674	-16.903
30404960	3040	4960	1/09/2006	244	12:48:21	-27 44 59.65369	135 30 11.85378	101.947	549599.152	6930400.131	94.712	475	2860.466	0.025	-0.018	-0.032	2860.434	3.643	979118.798	-33.366	29.228	-10.598	-14.736
30405040	3040	5040	1/09/2006	244	12:42:08	-27 44 59.55993	135 30 41.01779	100.139	550397.536	6930399.725	92.877	475	2862.875	0.044	-0.02	-0.031	2862.844	1.233	979121.208	-30.954	28.662	-10.393	-12.685
30405120	3040	5120	1/09/2006	244	12:36:00	-27 44 59.52760	135 31 10.22734	100.541	551197.159	6930397.37	93.252	475	2864.547	0.052	-0.022	-0.03	2864.517	-0.44	979122.881	-29.28	28.778	-10.435	-10.938
30405200	3040	5200	1/09/2006	244	12:29:58	-27 44 59.39137	135 31 39.60185	100.781	552001.312	6930398.14	93.464	475	2866.287	0.039	-0.024	-0.03	2866.257	-2.18	979124.621	-27.538	28.843	-10.459	-9.153
30405280	3040	5280	1/09/2006	244	15:43:04	-27 44 59.34276	135 32 08.68457	100.04	552797.466	6930396.196	92.695	475	2868.09	0.033	0.052	-0.051	2868.039	-3.962	979126.403	-25.755	28.606	-10.373	-7.521
32804080	3280	4080	1/09/2006	244	9:51:29	-27 43 42.71578	135 24 50.17563	108.922	540801.138	6932800.343	101.955	475	2843.921	0.055	-0.045	-0.012	2843.909	20.168	979102.273	-48.301	31.463	-11.409	-28.247
32804160	3280	4160	1/09/2006	244	9:59:41	-27 43 42.75303	135 25 19.22040	108.106	541596.391	6932796.498	101.114	475	2845.143	0.04	-0.045	-0.013	2845.13	18.947	979103.494	-47.081	31.204	-11.315	-27.192
32804240	3280	4240	1/09/2006	244	10:11:40	-27 43 42.53268	135 25 48.59538	109.687	542400.713	6932800.495	102.67	475	2845.989	0.044	-0.045	-0.015	2845.974	18.103	979104.338	-46.233	31.684	-11.489	-26.037
32804320	3280	4320	1/09/2006	244	10:18:50	-27 43 42.36713	135 26 17.91321	109.213	543203.465	6932802.758	102.17	475	2847.196	0.05	-0.044	-0.015	2847.181	16.896	979105.545	-45.022	31.53	-11.433	-24.925
32804400	3280	4400	1/09/2006	244	10:25:51	-27 43 42.33905	135 26 46.96025	109.938	543998.789	6932800.765	102.869	475	2847.756	0.038	-0.044	-0.016	2847.74	16.337	979106.104	-44.463	31.745	-11.511	-24.228
32804480	3280	4480	1/09/2006	244	10:32:52	-27 43 42.32241	135 27 16.24050	110.183	544800.498	6932798.345	103.087	475	2848.523	0.041	-0.044	-0.017	2848.506	15.571	979106.87	-43.696	31.813	-11.535	-23.419
32804560	3280	4560	1/09/2006	244	10:39:26	-27 43 42.20591	135 27 45.21490	110.917	545593.844	6932798.975	103.795	475	2849.499	0.035	-0.043	-0.018	2849.481	14.596	979107.845	-42.719	32.031	-11.615	-22.302
32804640	3280	4640	1/09/2006	244	10:46:12	-27 43 42.09533	135 28 14.61421	108.264	546398.825	6932799.327	101.115	475	2851.389	0.033	-0.043	-0.018	2851.371	12.706	979109.735	-40.827	31.204	-11.315	-20.937
32804720	3280	4720	1/09/2006	244	10:52:09	-27 43 42.00943	135 28 43.79467	108.133	547197.812	6932798.89	100.956	475	2852.937	0.045	-0.042	-0.019	2852.918	11.159	979111.282	-39.278	31.155	-11.297	-19.42
32804800	3280	4800	1/09/2006	244	11:01:28	-27 43 41.85741	135 29 13.12534	106.447	548000.92	6932800.418	99.243	475	2854.665	0.037	-0.041	-0.02	2854.645	9.432	979113.009	-37.548	30.626	-11.105	-18.027
32804880	3280	4880	1/09/2006	244	11:10:14	-27 43 41.67875	135 29 42.13266	105.921	548795.18	6932802.749	98.689	475	2855.893	0.033	-0.04	-0.021	2855.872	8.205	979114.236	-36.317	30.455	-11.043	-16.905
32804960	3280	4960	1/09/2006	244	11:16:38	-27 43 41.68179	135 30 11.50593	110.907	549599.438	6932799.395	103.649	475	2855.977	0.041	-0.039	-0.022	2855.955	8.122	979114.319	-36.234	31.986	-11.598	-15.846
32805040	3280	5040	1/09/2006	244	11:24:37	-27 43 41.47886	135 30 40.49378	112.021	550393.169	6932802.37	104.736	475	2857.069	0.06	-0.038	-0.023	2857.046	7.031	979115.41	-35.139	32.322	-11.72	-14.537
32805120	3280	5120	1/09/2006	244	11:31:32	-27 43 41.49062	135 31 09.74185	110.183	551194	6932798.657	102.872	475	2858.917	0.05	-0.037	-0.023	2858.894	5.183	979117.258	-33.291	31.746	-11.511	-13.056
32805200	3280	5200	1/09/2006	244	11:39:34	-27 43 41.34033	135 31 38.90132	108.309	551992.426	6932799.888	100.97	475	2861.111	0.039	-0.036	-0.024	2861.087	2.99	979119.451	-31.095	31.159	-11.299	-11.234
33604480	3360	4480	1/09/2006	244	9:29:12	-27 43 16.22371	135 27 16.09082	112.907	544799.363	6933601.422	105.802	475	2847.922	0.029	-0.044	-0.01	2847.912	16.165	979106.276	-43.751	32.65	-11.839	-22.94
33604560	3360	4560	1/09/2006	244	9:22:57	-27 43 16.16066	135 27 45.60063	115.328	545607.416	6933600.353	108.197	475	2848.58	0.039	-0.044	-0.009	2848.571	15.506	979106.935	-43.091	33.39	-12.107	-21.808
33604640	3360	4640	1/09/2006	244	9:17:01	-27 43 16.06815	135 28 14.53108	112.684	546399.61	6933600.198	105.527	475	2850.612	0.039	-0.044	-0.009	2850.603	13.474	979108.967	-41.057	32.566	-11.808	-20.3
33604720	3360	4720	1/09/2006	244	9:11:29	-27 43 15.89668	135 28 43.63047	111.856	547196.44	6933602.403	104.672	475	2852.505	0.03	-0.043	-0.008	2852.497	11.58	979110.861	-39.159	32.302	-11.713	-18.57
33604800	3360	4800	1/09/2006	244	9:05:33	-27 43 15.90921	135 29 12.95671	109.358	547999.46	6933598.87	102.147	475	2854.206	0.032	-0.043	-0.007	2854.199	9.878	979112.563	-37.458	31.523	-11.43	-17.365
33604880	3360	4880	1/09/2006	244	8:59:32	-27 43 15.86058	135 29 42.08402	110.757	548797.041	6933597.187	103.519	475	2854.438	0.032	-0.043	-0.007	2854.431	9.646	979112.795	-37.225	31.946	-11.584	-16.862
33604960	3360	4960	1/09/2006	244	8:53:55	-27 43 15.60659	135 30 11.35652	122.008	549598.625	6933601.754	114.743	475	2852.844	0.037	-0.042	-0.006	2852.838	11.239	979111.202	-38.812	35.41	-12.84	-16.242
33605040	3360	5040	1/09/2006	244	8:48:21	-27 43 15.51776	135 30 40.72894	114.965	550402.925	6933601.175	107.674	475	2855.702	0.032	-0.042	-0.006	2855.696	8.381	979114.06	-35.953	33.228	-12.049	-14.773
33605120	3360	5120	1/09/2006	244	8:42:11	-27 43 15.45816	135 31 09.50859	112.722	551190.991	6933599.712	105.405	475	2857.658	0.025	-0.041	-0.005	2857.653	6.424	979116.017	-33.994	32.528	-11.795	-13.261
33605200	3360	5200	1/09/2006	244	8:35:07	-27 43 15.49649	135 31 38.83602	115.92	551994.044	6933595.12	108.576	475	2859.158	0.03	-0.041	-0.004	2859.154	4.923	979117.518	-32.494	33.507	-12.15	-11.137
33605280	3360	5280	1/09/2006	244	8:19:15	-27 43 15.11013	135 32 08.25093	114.465	552799.549	6933603.533	107.095	475	2860.567	0.033	-0.039	-0.002	2860.565	3.512	979118.929	-31.075	33.05	-11.984	-10.01
5102	0	5102	2/09/2006	245	7:59:07	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.33	0.045	-0.029	0	2864.33	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	2/09/2006	245	8:01:47	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.331	0.045	-0.029	-0.001	2864.33	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	2/09/2006	245	15:41:10	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.349	0.044	0.015	-0.018	2864.331	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	2/09/2006	245	15:43:47	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.351	0.039	0.016	-0.002	2864.349	0	979122.441	-28.763	32.442	-11.764	-8.085
27204080	2720	4080	2/09/2006	245	13:44:34	-27 46 44.70364	135 24 51.06950	101.193	540806.762	6927200.453	94.298	475	2849.016	0.107	-0.025	-0.013	2849.003	15.328	979107.113	-47.223	29.1	-10.552	-28.675
27204160	2720	4160	2/09/2006	245	13:39:01	-27 46 44.63406	135 25 20.08185	101.55	541600.771	6927199.893	94.63	475	2849.581	0.062	-0.026	-0.013	2849.568	14.763	979107.678	-46.657	29.203	-10.589	-28.043
27204240	2720	4240	2/09/2006	245	13:32:26	-27 46 44.65576	135 25 49.57502	101.052	542407.93	6927196.426	94.105	475	2850.735	0.058	-0.028	-0.013	2850.722	13.609	979108.832	-45.503	29.041	-10.53	-26.993
27204320	2720	4320	2/09/2006	245	13:26:17	-27 46 44.56420	135 26 18.42425	100.823	543197.479	6927196.453	93.851	475	2851.663	0.117	-0.029	-0.013	2851.65	12.681	979109.76	-44.573	28.962	-10.502	-26.113
27204400	2720	4400	2/09/2006	245	13:19:48	-27 46 44.36691	135 26 47.82109	99.844	544002.028	6927199.628	92.844	475	2852.508	0.093	-0.03	-0.012	2852.496	11.835	979110.606	-43.723	28.652	-10.389	-25.461
27204480	2720	4480	2/09/2006	245	13:13:41	-27 46 44.18462	135 27 16.98612	97.403	544800.232	6927202.311	90.375	475	2853.733	0.049	-0.031	-0.012	2853.721	10.61	979111.831	-42.494	27.89	-10.113	-24.718
27204560	2720	4560	2/09/2006	245	13:08:08	-27 46 44.15104	135 27 46.11301	95.833	545597.376	6927200.369	88.777	475	2854.978	0.056	-0.032	-0.012	2854.966	9.365	979113.076	-41.249	27.397	-9.934	-23.786
27204640	2720	4640	2/09/2006	245	13:01:53	-27 46 44.05281	135 28 15.59015	94.37	546404.114	6927200.328	87.286	475	2856.818	0.042	-0.032	-0.012	2856.806	7.525	979114.916	-39.407	26.936	-9.767	-22.237
27204720	2720	4720	2/09/2006	245	12:55:58	-27 46 44.01906	135 28 44.47195	93.413	547194.552	6927198.312	86.301	475	2859.232	0.053	-0.033	-0.012	2859.22	5.111	979117.33	-36.992	26.632	-9.657	-20.017
27204800	2720	4800	2/09/2006	245	12:48:19	-27 46 43.82600	135 29 13.94418	93.019	548001.169	6927201.083	85.878	475	2862.005	0.054	-0.034	-0.011	2861.994	2.337	979120.104	-34.214	26.502	-9.61	-17.322
27204880	2720	4880	2/09/2006	245	12:42:39	-27 46 43.78685	135 29 43.04370	96.116	548797.567	6927199.105	88.947	475	2863.849	0.063	-0.035	-0.011	2863.838	0.493	979121.948	-32.369	27.449	-9.953	-14.873
27204960	2720	4960	2/09/2006	245	12:37:07	-27 46 43.71339	135 30 12.26683	94.899	549597.354	6927198.117	87.701	475	2866.403	0.058	-0.035	-0.011	2866.392	-2.061	979124.502	-29.814	27.065	-9.814	-12.563
27205040	2720	5040	2/09/2006	245	12:31:24	-27 46 43.62864	135 30 41.49367	99.687	550397.245	6927197.423	92.46	475	2867.736	0.076	-0.035	-0.011	2867.725	-3.394	979125.835	-28.479	28.533	-10.346	-10.292

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
28004080	2800	4080	2/09/2006	245	10:30:24	-27 46 18.94689	135 24 51.12426	102.997	540810.93	6927992.992	96.091	475	2848.313	0.087	-0.035	-0.006	2848.307	16.024	979106.417	-47.386	29.654	-10.753	-28.485
28004160	2800	4160	2/09/2006	245	10:36:45	-27 46 18.63991	135 25 20.17425	102.106	541606.047	6927999.733	95.175	475	2849.657	0.073	-0.035	-0.006	2849.651	14.68	979107.761	-46.036	29.371	-10.65	-27.315
28004240	2800	4240	2/09/2006	245	10:42:34	-27 46 18.54190	135 25 49.12684	101.708	542398.477	6928000.002	94.752	475	2851.271	0.045	-0.035	-0.006	2851.265	13.066	979109.375	-44.42	29.24	-10.603	-25.782
28004320	2800	4320	2/09/2006	245	10:48:29	-27 46 18.49119	135 26 18.43475	101.209	543200.628	6927998.728	94.226	475	2852.075	0.042	-0.035	-0.007	2852.068	12.263	979110.178	-43.616	29.078	-10.544	-25.082
28004400	2800	4400	2/09/2006	245	10:54:27	-27 46 18.45311	135 26 47.41982	98.042	543993.941	6927997.046	91.032	475	2852.982	0.037	-0.036	-0.007	2852.975	11.356	979111.085	-42.708	28.092	-10.186	-24.802
28004480	2800	4480	2/09/2006	245	11:02:26	-27 46 17.69080	135 27 16.57557	97.295	544792.01	6928017.578	90.257	475	2853.651	0.074	-0.036	-0.007	2853.644	10.687	979111.754	-42.023	27.853	-10.1	-24.27
28004560	2800	4560	2/09/2006	245	11:08:28	-27 46 18.09768	135 27 45.98682	97.669	545596.94	6928002.055	90.604	475	2854.558	0.06	-0.036	-0.007	2854.551	9.78	979112.661	-41.125	27.96	-10.139	-23.303
28004640	2800	4640	2/09/2006	245	11:16:08	-27 46 17.98520	135 28 15.21443	95.724	546396.903	6928002.479	88.63	475	2856.049	0.052	-0.036	-0.008	2856.041	8.29	979114.151	-39.632	27.351	-9.918	-22.199
28004720	2800	4720	2/09/2006	245	11:22:09	-27 46 17.93277	135 28 44.52749	96.503	547199.199	6928000.994	89.381	475	2857.687	0.059	-0.037	-0.008	2857.679	6.652	979115.789	-37.993	27.583	-10.002	-20.412
28004800	2800	4800	2/09/2006	245	11:28:02	-27 46 17.90055	135 29 13.69866	95.52	547997.61	6927998.848	88.369	475	2860.373	0.051	-0.037	-0.008	2860.365	3.966	979118.475	-35.307	27.271	-9.888	-17.925
28004880	2800	4880	2/09/2006	245	11:33:51	-27 46 17.80089	135 29 42.85517	96.554	548795.629	6927998.727	89.375	475	2862.679	0.062	-0.037	-0.008	2862.671	1.66	979120.781	-32.999	27.581	-10.001	-15.419
28004960	2800	4960	2/09/2006	245	11:39:48	-27 46 17.63518	135 30 12.20907	99.962	549599.059	6928000.564	92.755	475	2864.302	0.07	-0.037	-0.009	2864.293	0.038	979122.403	-31.373	28.624	-10.379	-13.128
28005040	2800	5040	2/09/2006	245	11:46:00	-27 46 17.54004	135 30 41.11897	104.538	550390.329	6928000.226	97.302	475	2865.682	0.042	-0.037	-0.009	2865.673	-1.342	979123.783	-29.991	30.027	-10.888	-10.852
28804080	2880	4080	2/09/2006	245	10:18:51	-27 45 52.72468	135 24 50.56533	103.423	540798.349	6928799.908	96.507	475	2848.245	0.055	-0.034	-0.005	2848.24	16.091	979106.35	-46.911	29.782	-10.799	-27.928
28804160	2880	4160	2/09/2006	245	10:13:30	-27 45 52.65966	135 25 19.87011	103.167	541600.467	6928799.182	96.226	475	2849.867	0.112	-0.034	-0.005	2849.862	14.469	979107.972	-45.288	29.695	-10.768	-26.36
28804240	2880	4240	2/09/2006	245	10:07:47	-27 45 52.51572	135 25 48.85343	102.77	542393.796	6928800.862	95.804	475	2851.573	0.061	-0.033	-0.005	2851.568	12.763	979109.678	-43.579	29.565	-10.72	-24.734
28804320	2880	4320	2/09/2006	245	10:01:10	-27 45 52.44022	135 26 18.32193	100.994	543200.398	6928800.337	94.001	475	2852.331	0.098	-0.033	-0.005	2852.326	12.005	979110.436	-42.819	29.009	-10.519	-24.329
28804400	2880	4400	2/09/2006	245	9:54:47	-27 45 52.44912	135 26 47.53097	99.781	543999.889	6928797.187	92.76	475	2852.546	0.061	-0.033	-0.004	2852.542	11.789	979110.652	-42.603	28.626	-10.38	-24.358
28804480	2880	4480	2/09/2006	245	9:45:19	-27 45 52.31019	135 27 16.63374	100.079	544796.489	6928798.543	93.031	475	2852.746	0.058	-0.032	-0.004	2852.742	11.589	979110.852	-42.401	28.709	-10.41	-24.101
28804560	2880	4560	2/09/2006	245	9:38:51	-27 45 52.16775	135 27 45.83551	101.204	545595.801	6928799.945	94.128	475	2853.287	0.097	-0.032	-0.004	2853.283	11.048	979111.393	-41.857	29.048	-10.533	-23.342
28804640	2880	4640	2/09/2006	245	9:32:44	-27 45 51.98442	135 28 15.28153	97.763	546401.803	6928802.528	90.659	475	2854.88	0.042	-0.032	-0.004	2854.876	9.455	979112.986	-40.26	27.977	-10.145	-22.427
28804720	2880	4720	2/09/2006	245	9:27:09	-27 45 51.98451	135 28 44.33704	98.971	547197.096	6928799.453	91.839	475	2856.151	0.064	-0.031	-0.003	2856.148	8.183	979114.258	-38.988	28.342	-10.277	-20.923
28804800	2880	4800	2/09/2006	245	9:21:27	-27 45 51.92616	135 29 13.40276	104.655	547992.676	6928798.125	97.494	475	2857.202	0.054	-0.031	-0.003	2857.199	7.132	979115.309	-37.936	30.087	-10.91	-18.759
28804880	2880	4880	2/09/2006	245	9:15:21	-27 45 51.78278	135 29 42.74344	105.01	548795.794	6928799.329	97.822	475	2859.613	0.061	-0.031	-0.003	2859.61	4.721	979117.72	-35.522	30.188	-10.946	-16.28
28804960	2880	4960	2/09/2006	245	9:09:48	-27 45 51.70519	135 30 11.76279	106.643	549590.109	6928798.493	99.426	475	2861.889	0.056	-0.031	-0.003	2861.886	2.445	979119.996	-33.244	30.683	-11.126	-13.687
28805040	2880	5040	2/09/2006	245	9:01:27	-27 45 51.61015	135 30 41.35042	104.28	550399.982	6928798.076	97.034	475	2864.833	0.057	-0.03	-0.002	2864.831	-0.5	979122.941	-30.297	29.945	-10.858	-11.21
28805120	2880	5120	2/09/2006	245	8:53:53	-27 45 51.53905	135 31 10.50770	102.246	551198.074	6928796.919	94.972	475	2867.1	0.031	-0.03	-0.002	2867.098	-2.767	979125.208	-28.029	29.308	-10.627	-9.348
29605200	2960	5200	2/09/2006	245	8:45:01	-27 45 25.53833	135 31 39.69072	100.269	552000.294	6929593.574	92.959	475	2867.734	0.064	-0.03	-0.002	2867.732	-3.401	979125.842	-26.857	28.687	-10.402	-8.572
33605680	3360	5680	2/09/2006	245	15:24:24	-27 43 14.68021	135 34 34.16148	127.498	556795.022	6933598.729	120.008	475	2860.403	0.061	0.007	-0.017	2860.386	3.945	979118.496	-31.499	37.034	-13.429	-7.894
34405200	3440	5200	2/09/2006	245	14:29:48	-27 42 49.15419	135 31 39.55049	123.294	552017.08	6934405.598	115.944	475	2856.507	0.059	-0.013	-0.015	2856.492	7.839	979114.602	-34.866	35.78	-12.974	-12.06
34405280	3440	5280	2/09/2006	245	14:37:12	-27 42 49.15007	135 32 08.14163	121.342	552800.03	6934402.346	113.967	475	2858.037	0.059	-0.011	-0.015	2858.022	6.309	979116.132	-33.336	35.17	-12.753	-10.919
34405360	3440	5360	2/09/2006	245	14:44:10	-27 42 49.09049	135 32 37.19177	131.995	553595.557	6934400.695	124.596	475	2856.033	0.061	-0.008	-0.016	2856.017	8.314	979114.127	-35.34	38.45	-13.942	-10.832
34405440	3440	5440	2/09/2006	245	14:55:15	-27 42 48.92462	135 33 06.44201	128.925	554396.58	6934402.238	121.501	475	2857.355	0.046	-0.004	-0.016	2857.339	6.992	979115.449	-34.014	37.495	-13.596	-10.115
34405520	3440	5520	2/09/2006	245	15:02:50	-27 42 48.94880	135 33 35.76993	125.984	555199.705	6934397.87	118.536	475	2858.341	0.049	-0.001	-0.016	2858.325	6.006	979116.435	-33.029	36.58	-13.264	-9.713
34405600	3440	5600	2/09/2006	245	15:11:35	-27 42 48.83516	135 34 05.48601	125.558	556013.479	6934397.641	118.085	475	2859.307	0.045	0.002	-0.017	2859.29	5.041	979117.4	-32.062	36.441	-13.214	-8.834
5102	0	5102	3/09/2006	246	7:41:40	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.831	0.057	-0.029	0	2864.831	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	3/09/2006	246	7:44:04	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.825	0.047	-0.028	0.006	2864.831	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	3/09/2006	246	15:37:56	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.761	0.062	-0.026	0.064	2864.825	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	3/09/2006	246	15:40:25	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.75	0.035	-0.025	0.011	2864.761	0	979122.441	-28.763	32.442	-11.764	-8.085
25605120	2560	5120	3/09/2006	246	13:50:51	-27 47 35.47167	135 31 11.06747	97.043	551199.875	6925598.785	89.807	475	2873.003	0.042	-0.044	0.05	2873.053	-8.228	979130.669	-24.717	27.714	-10.049	-7.052
25605200	2560	5200	3/09/2006	246	13:56:25	-27 47 35.19451	135 31 40.30485	97.172	551999.976	6925603.903	89.907	475	2874.456	0.058	-0.044	0.05	2874.506	-9.681	979132.122	-23.259	27.745	-10.061	-5.574
25605280	2560	5280	3/09/2006	246	14:03:20	-27 47 35.23889	135 32 09.45103	97.104	552797.54	6925599.085	89.811	475	2874.946	0.076	-0.043	0.051	2874.997	-10.172	979132.613	-22.768	27.716	-10.05	-5.102
25605360	2560	5360	3/09/2006	246	14:08:54	-27 47 35.13578	135 32 38.61932	97.602	553595.729	6925598.75	90.282	475	2875.133	0.045	-0.043	0.052	2875.185	-10.36	979132.801	-22.578	27.861	-10.103	-4.82
25605440	2560	5440	3/09/2006	246	14:14:31	-27 47 34.96018	135 33 07.70110	98.619	554391.562	6925600.603	91.272	475	2874.877	0.061	-0.043	0.053	2874.93	-10.105	979132.546	-22.83	28.167	-10.213	-4.876
25605520	2560	5520	3/09/2006	246	14:20:21	-27 47 34.86380	135 33 37.06753	97.338	555195.175	6925599.931	89.964	475	2874.895	0.083	-0.043	0.054	2874.949	-10.124	979132.565	-22.809	27.763	-10.067	-5.113
25605600	2560	5600	3/09/2006	246	14:25:42	-27 47 34.66450	135 34 06.46556	94.017	555999.668	6925602.369	86.616	475	2875.411	0.128	-0.042	0.054	2875.465	-10.64	979133.081	-22.289	26.73	-9.692	-5.251
25605680	2560	5680	3/09/2006	246	14:30:51	-27 47 34.66262	135 34 35.14773	88.952	556784.544	6925598.77	81.526	475	2876.59	0.057	-0.042	0.055	2876.645	-11.82	979134.261	-21.108	25.159	-9.123	-5.072
25605760	2560	5760	3/09/2006	246	14:36:27	-27 47 34.45673	135 35 04.53007	94.032	557588.611	6925601.307	86.58	475	2875.355	0.065	-0.041	0.056	2875.411	-10.586	979133.027	-22.338	26.719	-9.688	-5.308
25605840	2560	5840	3/09/2006	246	14:44:13	-27 47 34.40393	135 35 33.73623	90.451	558387.836	6925599.103	82.974	475	2875.725	0.056	-0.04	0.057	2875.782	-10.957	979133.398	-21.966	25.606	-9.285	-5.645
25605920	2560	5920	3/09/2006	246	14:49:16	-27 47 34.35400	135 36 02.82142	94.934	559183.751	6925596.774	87.432	475	2874.156	0.063	-0.039	0.057	2874.213	-9.388	979131.829	-23.534	26.982	-9.784	-6.336
25606000	2560	6000	3/09/2006	246	14:54:38	-27 47 34.09497	135 36 32.28641	89.413	559990.092	6925600.775	81.886	475	2874.572	0.037	-0.038	0.058	2874.63	-9.805	979132.246	-23.112	25.27	-9.163	-7.005
26405120	2640	5120	3/09/2006	246	13:43:56	-27 47 09.45807	135 31 10.88390	98.103	551198.237	6926399.262	90.857	475	2872.164	0.057	-0.043	0.049	2872.213	-7.388	979129.829	-25.019	28.038	-10.167	-7.148
26405200	2640	5200	3/09/2006	246	13:38:43	-27 47 09.43885	135 31 40.16270	100.679	551999.49	6926396.438	93.405	475	2872.692	0.077	-0.043	0.048	2872.74	-7.915	979130.356	-24.492	28.825	-10.452	-6.119
26405280	2640	5280	3/09/2006	246	13:32:41	-27 47 09.09508	135 32 09.34647	103.922	552798.187	6926403.56	96.619	475	2872.466	0.056	-0.043	0.047	2872.513	-7.688	979130.129	-24.712	29.817	-10.812	-5.707
26405360	2640	5360	3/09/2006	246	13:26:43	-27 47 09.07540	135 32 38.37115	107.599	553592.488	6926400.676	100.27	475	2872.069	0.103	-0.043	0.046	2872.115	-7.29	979129.731	-25.109	30.943	-11.22	-5.386
26405440	2640	5440	3/09/2006	246	13:21:17	-27 47 09.07502	135 33 07.77335	105.63	554397.118	6926397.1	98.274	475	2872.839	0.046	-0.042	0.046	2872.885	-8.06	979130.501	-24.339	30.327	-10.997	-5.009
26405520	2640	5520	3/09/2006	246	13:15:41	-27 47 08.74218	135 33 36.97654	101.637	555196.349	6926403.725	94.254	475	2873.778	0.046	-0.042	0.045	2873.823	-8.998	979131.439	-23.394	29.087	-10.547	-4.854
26405600	2640	5600	3/09/2006	246	13:09:16	-27 47 08.81260	135 34 06.37471	97.7	556000.861	6926397.864	90.291	475	2874.581	0.078	-0.041	0.044	2874.625	-9.8	979132.241	-22.594	27.864	-10.104	-4.833
26405680	2640	5680	3/09/2006	246	12:58:45	-27 47 08.64815	135 34 35.24671	94.466	556791.008	6926399.244	87.032	475	2875.5	0.061	-0.04	0.043	2875.543	-10.718	979133.159	-21.672	26.858	-9.739	-4.553
26405760	2640	5760	3/09/2006	246	12:52:29	-27 47 08.36129	135 35 05.00612	88.432	557605.459	6926404.223	80.972	475	2876.711	0.027	-0.039	0.042	2876.753	-11.928	979134.369	-20.456	24.988	-9.061	-4.529
26405840	2640	5840	3/09/2006	246	12:46:13	-27 47 08.56129	135 35 33.86452	95.355	558395.182	6926394.286	87.871	475	2874.554	0.09	-0.038	0.041	2874.595	-9.77	979132.211	-22.619	27.117	-9.833	-5.334
26405920	2640	5920	3/09/2006	246	12:40:23	-27 47 08.39557	135 36 03.27841	95.314	559200.163	6926395.477	87.804	475	2873.884	0.053	-0.037	0.04	2873.924	-9.099	979131.54	-23.286	27.096	-9.825	-6.015
26406000	2640	6000	3/09/2006	246	12:29:26	-27 47 07.91691	135 36 32.47071	90.322	559999.127	6926406.273	82.789	475	2874.061	0.046	-0.035	0.039	2874.1	-9.275	979131.716	-23.1	25.549	-9.264	-6.816
27205120	2720	5120	3/09/2006	246	11:16:57	-27 46 43.39940	135 31 10.62532	106.065	551194.55	6927201.133	98.81	475	2868.954	0.055	-0.024	0.029	2868.983	-4.158	979126.599	-27.71	30.493	-11.057	-8.274
27205200	2720	5200	3/09/2006	246	11:22:33	-27 46 43.30538	135 31 39.92448	108.363	551996.423	6927200.61	101.08	475	2869.576	0.086	-0.025	0.03	2869.606	-4.781	979127.222	-27.085	31.193	-11.311	-7.203
27205280	2720	5280	3/09/2006	246	11:28:02	-27 46 43.25188	135 32 09.17843	106.569	552797.055	6927198.793	99.258	475	2870.871	0.073	-0.025	0.03	2870.901	-6.076	979128.517	-25.789	30.631	-11.107	-6.265
27205360	2720	5360	3/09/2006	246	11:34:44	-27 46 42.98572	135 32 38.35686	101.319	553595.649	6927203.475	93.981	475	2872.981	0.076	-0.026	0.031	2873.012	-8.187	979130.628	-23.672	29.003	-10.516	-5.186
27205440	2720	5440	3/09/2006	246	11:40:29	-27 46 43.10112	135 33 07.28789	97.786	554387.422	6927196.395	90.422	475	2874.455	0.081	-0.027	0.032	2874.487	-9.662	979132.103	-22.2	27.904	-10.118	-4.414
27205520	2720	5520	3/09/2006	246	11:46:23	-27 46 42.92322	135 33 36.66682	97.713	555191.494	6927198.232	90.322	475	2874.838	0.048	-0.028	0.033	2874.871	-10.046	979132.487	-21.812	27.873	-10.107	-4.046
27205600	2720	5600	3/09/2006	246	11:52:03	-27 46 42.75464	135 34 06.18176	91.38	555999.288	6927199.711	83.962	475	2876.388	0.043	-0.029	0.033	2876.421	-11.596	979134.037	-20.259	25.911	-9.395	-3.743
27205680	2720	5680	3/09/2006	246	11:57:38	-27 46 42.60884	135 34 35.30150	90.25	556796.265	6927200.487	82.807	475	2876.677	0.074	-0.03	0.034	2876.711	-11.886	979134.327	-19.966	25.554	-9.266	-3.678
27205760	2720	5760	3/09/2006	246	12:02:38	-27 46 42.58390	135 35 04.66867	94.751	557599.997	6927197.458	87.284	475	2875.248	0.05	-0.031	0.035	2875.283	-10.458	979132.899	-21.393	26.936	-9.767	-4.225
27205840	2720	5840	3/09/2006	246	12:09:48	-27 46 42.44290	135 35 33.47598	97.077	558388.424	6927198.022	89.585	475	2874.029	0.059	-0.032	0.036	2874.065	-9.24	979131.681	-22.608	27.646	-10.025	-4.987
27205920	2720	5920	3/09/2006	246	12:16:07	-27 46 42.30438	135 36 02.81389	98.5	559191.374	6927198.387	90.984	475	2872.846	0.061	-0.033	0.037	2872.883	-8.058	979130.499	-23.787	28.078	-10.181	-5.891
27206000	2720	6000	3/09/2006	246	12:21:52	-27 46 42.32683	135 36 31.90300	92.154	559987.492	6927193.779	84.615	475	2873.384	0.042	-0.034	0.038	2873.422	-8.597	979131.038	-23.249	26.112	-9.468	-6.605
28005120	2800	5120	3/09/2006	246	10:59:16	-27 46 17.42872	135 31 10.54873	106.716	551195.831	6928000.275	99.452	475	2867.771	0.055	-0.021	0.026	2867.797	-2.972	979125.413	-28.359	30.691	-11.129	-8.797
28005200	2800	5200	3/09/2006	246	10:53:12	-27 46 17.40274	135 31 39.70351	102.426	551993.797	6927997.676	95.133	475	2869.929	0.047	-0.02	0.026	2869.955	-5.13	979127.571	-26.201	29.358	-10.645	-7.488
28005280	2800	5280	3/09/2006	246	10:47:36	-27 46 17.27800	135 32 08.80317	100.289	552790.268	6927998.07	92.969	475	2871.805	0.089	-0.02	0.025	2871.83	-7.005	979129.446	-24.323	28.69	-10.403	-6.036
28005360	2800	5360	3/09/2006	246	10:41:56	-27 46 17.10144	135 32 38.23423	100.68	553595.817	6927999.966	93.332	475	2872.48	0.049	-0.019	0.024	2872.504	-7.679	979130.12	-23.645	28.802	-10.444	-5.287
28005440	2800	5440	3/09/2006	246	10:35:00	-27 46 17.40312	135 33 07.83882	94.021	554406.051	6927987.072	86.647	475	2874.855	0.061	-0.018	0.023	2874.878	-10.053	979132.494	-21.278	26.739	-9.696	-4.234
28005520	2800	5520	3/09/2006	246	10:27:51	-27 46 16.84949	135 33 36.58883	98.468	555193.015	6928000.548	91.067	475	2874.643	0.05	-0.018	0.022	2874.665	-9.84	979132.281	-21.479	28.103	-10.19	-3.566
28005600	2800	5600	3/09/2006	246	10:22:18	-27 46 16.80239	135 34 05.91478	97.521	555995.673	6927998.314	90.094	475	2875.076	0.078	-0.017	0.021	2875.097	-10.272	979132.713	-21.046	27.803	-10.081	-3.325
28005680	2800	5680	3/09/2006	246	10:16:08	-27 46 16.60903	135 34 35.18734	94.7	556796.892	6928000.535	87.249	475	2875.664	0.07	-0.017	0.021	2875.685	-10.86	979133.301	-20.454	26.925	-9.763	-3.292
28005760	2800	5760	3/09/2006	246	10:10:07	-27 46 16.48942	135 35 04.18135	93.368	557590.477	6928000.469	85.893	475	2875.283	0.056	-0.016	0.02	2875.303	-10.478	979132.919	-20.834	26.507	-9.611	-3.938
28005840	2800	5840	3/09/2006	246	10:04:05	-27 46 16.41055	135 35 33.51168	99.256	558393.263	6927999.054	91.756	475	2873.16	0.051	-0.016	0.019	2873.179	-8.354	979130.795	-22.956	28.316	-10.267	-4.908
28005920	2800	5920	3/09/2006	246	9:58:29	-27 46 16.27442	135 36 02.66303	102.634	559191.159	6927999.371	95.11	475	2871.566	0.067	-0.016	0.018	2871.584	-6.759	979129.2	-24.548	29.351	-10.643	-5.84
28006000	2800	6000	3/09/2006	246	9:51:52	-27 46 15.97325	135 36 31.94358	97.647	559992.618	6928004.696	90.101	475	2871.808	0.062	-0.016	0.017	2871.825	-7	979129.441	-24.301	27.805	-10.082	-6.578
28805200	2880	5200	3/09/2006	246	8:38:36	-27 45 51.24471	135 31 39.50002	102.13	551991.681	6928802.597	94.828	475	2869.058	0.098	-0.019	0.007	2869.065	-4.24	979126.681	-26.55	29.264	-10.611	-7.897

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
28805280	2880	5280	3/09/2006	246	8:45:00	-27 45 51.18202	135 32 09.00617	99.997	552799.323	6928801.035	92.667	475	2871.196	0.058	-0.019	0.008	2871.204	-6.379	979128.82	-24.409	28.597	-10.369	-6.182
28805360	2880	5360	3/09/2006	246	8:54:14	-27 45 51.23713	135 32 38.01337	95.747	553593.292	6928795.854	88.391	475	2872.982	0.053	-0.018	0.009	2872.991	-8.166	979130.607	-22.623	27.277	-9.891	-5.237
28805440	2880	5440	3/09/2006	246	9:00:33	-27 45 50.96605	135 33 07.39597	100.037	554397.582	6928800.612	92.655	475	2872.854	0.109	-0.017	0.01	2872.864	-8.039	979130.48	-22.745	28.593	-10.368	-4.52
28805520	2880	5520	3/09/2006	246	9:08:39	-27 45 50.84028	135 33 36.56615	97.982	555196.04	6928800.872	90.573	475	2874.292	0.054	-0.017	0.011	2874.303	-9.478	979131.919	-21.303	27.951	-10.135	-3.487
28805600	2880	5600	3/09/2006	246	9:16:12	-27 45 50.73166	135 34 05.73171	102.954	555994.369	6928800.552	95.519	475	2873.526	0.077	-0.016	0.012	2873.538	-8.713	979131.154	-22.066	29.477	-10.689	-3.277
28805680	2880	5680	3/09/2006	246	9:21:52	-27 45 50.61212	135 34 35.05046	98.905	556796.895	6928800.496	91.446	475	2874.244	0.071	-0.016	0.013	2874.257	-9.432	979131.873	-21.345	28.22	-10.233	-3.357
28805760	2880	5760	3/09/2006	246	9:27:41	-27 45 50.56329	135 35 04.19226	95.499	557594.567	6928798.234	88.016	475	2874.347	0.09	-0.016	0.014	2874.361	-9.536	979131.977	-21.24	27.162	-9.849	-3.927
28805840	2880	5840	3/09/2006	246	9:33:38	-27 45 50.45322	135 35 33.22685	102.505	558389.315	6928797.818	94.999	475	2871.822	0.067	-0.016	0.015	2871.837	-7.012	979129.453	-23.761	29.317	-10.63	-5.075
28805920	2880	5920	3/09/2006	246	9:39:20	-27 45 50.30335	135 36 02.34488	103.644	559186.354	6928798.564	96.115	475	2870.778	0.09	-0.016	0.016	2870.794	-5.969	979128.41	-24.801	29.661	-10.755	-5.895
28806000	2880	6000	3/09/2006	246	9:45:02	-27 45 50.13959	135 36 31.88605	101.789	559994.979	6928799.627	94.237	475	2870.412	0.135	-0.016	0.016	2870.428	-5.603	979128.044	-25.164	29.082	-10.545	-6.627
29605280	2960	5280	3/09/2006	246	8:20:21	-27 45 25.31557	135 32 08.47321	99.726	552788.201	6929597.024	92.389	475	2870.204	0.035	-0.022	0.005	2870.209	-5.384	979127.825	-24.87	28.511	-10.338	-6.697
32005360	3200	5360	3/09/2006	246	15:34:03	-27 44 07.04024	135 32 37.68746	108.319	553598.541	6932002.088	100.934	475	2865.572	0.036	-0.028	0.063	2865.635	-0.81	979123.251	-27.826	31.148	-11.294	-7.972
5102	0	5102	4/09/2006	247	8:13:18	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.203	0.029	-0.021	0	2865.203	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	4/09/2006	247	8:15:41	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.198	0.028	-0.02	0.005	2865.203	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	4/09/2006	247	17:52:11	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.961	0.041	0	0.237	2865.198	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	4/09/2006	247	17:53:52	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2864.968	0.048	0.001	-0.007	2864.961	0	979122.441	-28.763	32.442	-11.764	-8.085
24004640	2400	4640	4/09/2006	247	11:04:43	-27 48 27.86184	135 28 15.94343	96.825	546401.535	6924006.031	89.78	475	2859.644	0.059	0	0.069	2859.713	5.485	979116.956	-39.514	27.706	-10.046	-21.855
24004720	2400	4720	4/09/2006	247	11:10:32	-27 48 27.86313	135 28 45.20658	92.883	547202.195	6924002.894	85.81	475	2862.474	0.06	0	0.072	2862.546	2.652	979119.789	-36.681	26.481	-9.602	-19.802
24004800	2400	4800	4/09/2006	247	11:16:08	-27 48 27.85026	135 29 14.66673	94.081	548008.246	6924000.118	86.979	475	2864.008	0.062	-0.001	0.074	2864.082	1.116	979121.325	-35.145	26.842	-9.733	-18.036
24004880	2400	4880	4/09/2006	247	11:21:47	-27 48 27.64010	135 29 43.62646	89.188	548800.631	6924003.414	82.058	475	2867.355	0.051	-0.002	0.077	2867.432	-2.234	979124.675	-31.791	25.323	-9.182	-15.65
24004960	2400	4960	4/09/2006	247	11:28:24	-27 48 27.58943	135 30 12.85929	89.698	549600.469	6924001.72	82.539	475	2869.592	0.058	-0.003	0.079	2869.671	-4.473	979126.914	-29.551	25.472	-9.236	-13.315
24005040	2400	5040	4/09/2006	247	12:10:51	-27 48 27.78548	135 30 42.07288	89.584	550399.75	6923992.384	82.397	475	2871.879	0.086	-0.015	0.097	2871.976	-6.778	979129.219	-27.25	25.428	-9.22	-11.042
24005120	2400	5120	4/09/2006	247	12:17:07	-27 48 27.42547	135 31 11.26470	93.157	551198.508	6924000.107	85.941	475	2873.239	0.059	-0.017	0.099	2873.338	-8.14	979130.581	-25.88	26.521	-9.617	-8.976
24005200	2400	5200	4/09/2006	247	12:22:25	-27 48 27.41805	135 31 40.17232	93.615	551989.445	6923996.963	86.371	475	2874.88	0.06	-0.018	0.101	2874.981	-9.783	979132.224	-24.237	26.654	-9.665	-7.248
24005280	2400	5280	4/09/2006	247	12:38:42	-27 48 27.25186	135 32 09.54713	93.174	552793.186	6923998.596	85.9	475	2876.227	0.043	-0.024	0.108	2876.335	-11.137	979133.578	-22.88	26.509	-9.612	-5.983
24005360	2400	5360	4/09/2006	247	12:43:43	-27 48 27.06963	135 32 38.85788	92.824	553595.179	6924000.677	85.523	475	2876.897	0.049	-0.026	0.11	2877.007	-11.809	979134.25	-22.204	26.392	-9.57	-5.382
24005440	2400	5440	4/09/2006	247	12:48:58	-27 48 26.98795	135 33 08.22320	92.616	554398.652	6923999.603	85.288	475	2877.306	0.037	-0.027	0.112	2877.418	-12.22	979134.661	-21.791	26.32	-9.544	-5.015
24005520	2400	5520	4/09/2006	247	12:56:21	-27 48 26.84684	135 33 37.32019	90.676	555194.792	6924000.339	83.321	475	2877.369	0.047	-0.03	0.115	2877.484	-12.286	979134.727	-21.722	25.713	-9.324	-5.333
24005600	2400	5600	4/09/2006	247	13:02:42	-27 48 26.77554	135 34 06.71930	86.178	555999.19	6923998.836	78.796	475	2877.884	0.052	-0.032	0.118	2878.002	-12.804	979135.245	-21.203	24.316	-8.817	-5.704
24005680	2400	5680	4/09/2006	247	13:10:37	-27 48 26.53694	135 34 35.99740	83.881	556800.302	6924002.443	76.473	475	2877.961	0.037	-0.035	0.121	2878.082	-12.884	979135.325	-21.118	23.6	-8.557	-6.076
24005760	2400	5760	4/09/2006	247	13:16:34	-27 48 26.54095	135 35 04.95959	84.09	557592.737	6923998.573	76.655	475	2877.542	0.047	-0.037	0.124	2877.666	-12.468	979134.909	-21.534	23.656	-8.578	-6.456
24005840	2400	5840	4/09/2006	247	13:34:24	-27 48 25.91242	135 35 34.00452	85.045	558387.53	6924014.104	77.584	475	2877.008	0.037	-0.043	0.131	2877.139	-11.941	979134.382	-22.048	23.942	-8.682	-6.787
24005920	2400	5920	4/09/2006	247	13:41:53	-27 48 26.11602	135 36 03.35235	86.16	559190.489	6924003.937	78.673	475	2876.784	0.043	-0.045	0.134	2876.918	-11.72	979134.161	-22.273	24.278	-8.803	-6.798
24006000	2400	6000	4/09/2006	247	13:47:48	-27 48 26.15509	135 36 32.80123	88.255	559996.237	6923998.765	80.743	475	2875.69	0.057	-0.047	0.137	2875.827	-10.629	979133.07	-23.365	24.917	-9.035	-7.483
24804640	2480	4640	4/09/2006	247	10:58:05	-27 48 02.04816	135 28 15.61358	94.35	546395.556	6924800.368	87.297	475	2859.263	0.055	0.001	0.067	2859.33	5.868	979116.573	-39.363	26.94	-9.769	-22.192
24804720	2480	4720	4/09/2006	247	10:52:50	-27 48 02.13061	135 28 44.75527	94.571	547192.935	6924794.747	87.489	475	2861.201	0.083	0.002	0.065	2861.266	3.932	979118.509	-37.429	26.999	-9.79	-20.22
24804800	2480	4800	4/09/2006	247	10:47:11	-27 48 01.84326	135 29 14.35729	95.387	548002.955	6924800.403	88.276	475	2862.932	0.079	0.002	0.062	2862.994	2.204	979120.237	-35.695	27.242	-9.878	-18.331
24804880	2480	4880	4/09/2006	247	10:40:44	-27 48 01.77719	135 29 43.26085	90.428	548793.837	6924799.273	83.289	475	2866.874	0.047	0.003	0.06	2866.934	-1.736	979124.177	-31.753	25.703	-9.32	-15.37
24804960	2480	4960	4/09/2006	247	10:35:46	-27 48 01.62338	135 30 12.58038	94.147	549596.113	6924800.744	86.979	475	2868.964	0.045	0.003	0.058	2869.022	-3.824	979126.265	-29.662	26.842	-9.733	-12.554
24806000	2480	6000	4/09/2006	247	13:57:46	-27 47 59.99217	135 36 32.50248	87.61	559992.054	6924803.864	80.09	475	2875.558	0.039	-0.05	0.141	2875.699	-10.501	979132.942	-22.952	24.716	-8.962	-7.198
25604640	2560	4640	4/09/2006	247	10:04:07	-27 47 35.93623	135 28 15.53025	98.22	546396.356	6925603.855	91.156	475	2857.732	0.071	0.003	0.045	2857.777	7.421	979115.02	-40.376	28.131	-10.2	-22.445
25604720	2560	4720	4/09/2006	247	10:10:10	-27 47 35.91798	135 28 44.80486	97.393	547197.437	6925601.32	90.301	475	2859.85	0.08	0.003	0.047	2859.897	5.301	979117.14	-38.255	27.867	-10.105	-20.493
25604800	2560	4800	4/09/2006	247	10:15:41	-27 47 35.87246	135 29 14.28792	92.832	548004.226	6925599.547	85.711	475	2863.248	0.076	0.003	0.049	2863.297	1.901	979120.54	-34.855	26.45	-9.591	-17.995
25604880	2560	4880	4/09/2006	247	10:22:24	-27 47 35.82296	135 29 43.40480	94.295	548800.996	6925597.885	87.146	475	2866.016	0.066	0.004	0.052	2866.068	-0.87	979123.311	-32.082	26.893	-9.752	-14.941
25604960	2560	4960	4/09/2006	247	10:27:30	-27 47 35.64212	135 30 12.57447	94.515	549599.228	6925600.205	87.337	475	2869.157	0.096	0.003	0.054	2869.211	-4.013	979126.454	-28.936	26.952	-9.773	-11.757
25605040	2560	5040	4/09/2006	247	9:13:08	-27 47 35.56487	135 30 41.86812	95.478	550400.84	6925599.27	88.272	475	2871.655	0.054	-0.003	0.024	2871.679	-6.481	979128.922	-26.466	27.241	-9.878	-9.103
25605120	2560	5120	4/09/2006	247	9:07:15	-27 47 35.45764	135 31 11.06890	97.049	551199.916	6925599.217	89.813	475	2873.408	0.082	-0.005	0.021	2873.429	-8.231	979130.672	-24.714	27.716	-10.05	-7.048
26404640	2640	4640	4/09/2006	247	9:56:56	-27 47 09.99349	135 28 15.85420	98.46	546408.281	6926402.093	91.386	475	2857.106	0.049	0.003	0.042	2857.148	8.05	979114.391	-40.468	28.202	-10.226	-22.493
26404720	2640	4720	4/09/2006	247	9:52:20	-27 47 10.00239	135 28 44.72478	97.769	547198.355	6926398.765	90.667	475	2859.377	0.068	0.002	0.04	2859.417	5.781	979116.66	-38.199	27.98	-10.146	-20.365
26404800	2640	4800	4/09/2006	247	9:46:42	-27 47 09.82274	135 29 13.73856	93.003	547992.371	6926401.172	85.872	475	2863.149	0.047	0.002	0.037	2863.186	2.012	979120.429	-34.427	26.5	-9.609	-17.536
26404880	2640	4880	4/09/2006	247	9:41:02	-27 47 09.78064	135 29 43.43640	92.901	548805.091	6926399.219	85.742	475	2866.201	0.051	0.001	0.035	2866.236	-1.038	979123.479	-31.376	26.46	-9.595	-14.51
26404960	2640	4960	4/09/2006	247	9:36:03	-27 47 09.69568	135 30 12.20190	97.117	549592.303	6926398.634	89.929	475	2867.954	0.065	0	0.033	2867.987	-2.789	979125.23	-29.623	27.752	-10.063	-11.934
26405040	2640	5040	4/09/2006	247	9:29:11	-27 47 09.63586	135 30 41.65789	96.821	550398.409	6926397.146	89.604	475	2870.73	0.043	0	0.03	2870.76	-5.562	979128.003	-26.849	27.652	-10.027	-9.224
5102	0	5102	5/09/2006	248	7:42:34	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.342	0.07	-0.042	0	2865.342	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/09/2006	248	7:45:08	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.338	0.045	-0.041	0.004	2865.342	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/09/2006	248	16:00:15	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.226	0.065	-0.081	0.112	2865.338	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	5/09/2006	248	16:01:55	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.226	0.046	-0.081	0	2865.226	0	979122.441	-28.763	32.442	-11.764	-8.085
32805600	3280	5600	5/09/2006	248	15:48:45	-27 43 40.61376	135 34 05.16042	116.25	555997.214	6932804.43	108.785	475	2865.265	0.04	-0.079	0.109	2865.374	-0.036	979122.477	-28.054	33.571	-12.173	-6.656
34405600	3440	5600	5/09/2006	248	8:14:30	-27 42 48.83479	135 34 05.49058	125.558	556013.604	6934397.652	118.085	475	2860.301	0.052	-0.024	0.007	2860.308	5.03	979117.411	-32.051	36.441	-13.214	-8.823
34405680	3440	5680	5/09/2006	248	8:24:08	-27 42 48.68440	135 34 33.89955	140.598	556791.591	6934398.667	133.104	475	2858.023	0.103	-0.019	0.009	2858.032	7.306	979115.135	-34.323	41.076	-14.894	-8.142
34405760	3440	5760	5/09/2006	248	8:31:13	-27 42 48.30578	135 35 03.34523	138.173	557598.001	6934406.52	130.657	475	2859.703	0.066	-0.016	0.01	2859.713	5.625	979116.816	-32.635	40.321	-14.62	-6.934
34405840	3440	5840	5/09/2006	248	8:38:00	-27 42 48.24403	135 35 32.54319	120.058	558397.583	6934404.602	112.521	475	2864.393	0.049	-0.012	0.012	2864.405	0.933	979121.508	-27.941	34.724	-12.591	-5.808
34405920	3440	5920	5/09/2006	248	8:44:41	-27 42 48.20830	135 36 01.61555	117.331	559193.723	6934401.847	109.771	475	2864.998	0.046	-0.008	0.013	2865.011	0.327	979122.114	-27.335	33.875	-12.283	-5.743
34406000	3440	6000	5/09/2006	248	8:51:35	-27 42 48.12724	135 36 30.72038	117.498	559990.76	6934400.431	109.919	475	2864.14	0.052	-0.005	0.015	2864.155	1.183	979121.258	-28.189	33.921	-12.3	-6.568
35205600	3520	5600	5/09/2006	248	9:45:32	-27 42 22.87042	135 34 04.50947	137.591	555990.42	6935196.711	130.115	475	2857.448	0.067	0.017	0.027	2857.475	7.863	979114.578	-34.347	40.153	-14.56	-8.754
35205680	3520	5680	5/09/2006	248	9:37:45	-27 42 22.72056	135 34 33.99279	145.99	556797.879	6935197.574	138.492	475	2856.054	0.049	0.014	0.025	2856.079	9.259	979113.182	-35.74	42.739	-15.497	-8.499
35205760	3520	5760	5/09/2006	248	9:28:00	-27 42 22.48508	135 35 03.35607	148.794	557602.065	6935201.034	141.275	475	2855.606	0.037	0.011	0.023	2855.629	9.709	979112.732	-36.185	43.597	-15.809	-8.397
35205840	3520	5840	5/09/2006	248	9:20:44	-27 42 22.34935	135 35 32.42323	129.914	558398.129	6935201.41	122.373	475	2859.953	0.06	0.008	0.022	2859.975	5.363	979117.078	-31.837	37.764	-13.694	-7.766
35205920	3520	5920	5/09/2006	248	9:13:26	-27 42 22.11099	135 36 01.77695	127.153	559202.057	6935204.854	119.591	475	2859.969	0.035	0.004	0.02	2859.989	5.349	979117.092	-31.818	36.906	-13.382	-8.294
35206000	3520	6000	5/09/2006	248	9:06:22	-27 42 21.96307	135 36 30.65944	131.578	559993.067	6935205.525	123.997	475	2858.098	0.08	0.001	0.018	2858.116	7.222	979115.219	-33.688	38.265	-13.875	-9.297
36005520	3600	5520	5/09/2006	248	9:56:58	-27 41 56.71170	135 33 35.53226	137.398	555200.499	6936005.256	129.942	475	2855.336	0.102	0.021	0.03	2855.366	9.972	979112.469	-35.916	40.1	-14.54	-10.357
36005600	3600	5600	5/09/2006	248	10:05:19	-27 41 56.80061	135 34 04.64306	135.83	555997.775	6935998.873	128.35	475	2856.258	0.059	0.023	0.032	2856.29	9.048	979113.393	-34.994	39.609	-14.362	-9.748
36005680	3600	5680	5/09/2006	248	10:14:10	-27 41 56.11571	135 34 33.72854	167.669	556794.469	6936016.251	160.168	475	2848.834	0.042	0.025	0.034	2848.868	16.47	979105.971	-42.402	49.428	-17.923	-10.897
36005760	3600	5760	5/09/2006	248	10:21:56	-27 41 56.49510	135 35 02.95370	156.96	557594.837	6936000.81	149.438	475	2851.487	0.111	0.026	0.035	2851.522	13.816	979108.625	-39.756	46.117	-16.722	-10.361
36005840	3600	5840	5/09/2006	248	10:30:06	-27 41 56.33945	135 35 32.03583	149.037	558391.365	6936001.798	141.494	475	2853.002	0.064	0.027	0.037	2853.039	12.299	979110.142	-38.236	43.665	-15.833	-10.404
36005920	3600	5920	5/09/2006	248	10:38:49	-27 41 56.16906	135 36 01.50152	136.771	559198.402	6936003.137	129.207	475	2855.377	0.077	0.028	0.039	2855.416	9.922	979112.519	-35.855	39.873	-14.458	-10.44
36006000	3600	6000	5/09/2006	248	10:45:14	-27 41 55.54895	135 36 30.98603	128.699	560006.025	6936018.257	121.116	475	2856.127	0.053	0.029	0.041	2856.168	9.17	979113.271	-35.09	37.376	-13.553	-11.267
36805440	3680	5440	5/09/2006	248	12:24:39	-27 41 30.28928	135 33 06.18855	151.791	554400.471	6936821.906	144.357	475	2848.954	0.054	0.01	0.063	2849.017	16.321	979106.12	-41.72	44.549	-16.154	-13.325
36805520	3680	5520	5/09/2006	248	12:14:42	-27 41 31.28425	135 33 34.64941	155.784	555179.872	6936787.778	148.328	475	2848.803	0.091	0.014	0.061	2848.864	16.474	979105.967	-41.894	45.774	-16.598	-12.718
36805600	3680	5600	5/09/2006	248	11:55:07	-27 41 31.31767	135 34 01.80772	189.919	555923.728	6936783.35	182.441	475	2841.071	0.097	0.02	0.057	2841.128	24.21	979098.231	-49.63	56.301	-20.415	-13.744
36805680	3680	5680	5/09/2006	248	11:39:02	-27 41 30.52631	135 34 34.86125	159.742	556829.173	6936803.502	152.241	475	2848.281	0.046	0.024	0.053	2848.334	17.004	979105.437	-42.408	46.982	-17.036	-12.462
36805760	3680	5760	5/09/2006	248	11:28:18	-27 41 30.46237	135 35 02.61313	188.888	557589.304	6936801.892	181.367	475	2842.082	0.099	0.026	0.05	2842.132	23.206	979099.235	-48.609	55.97	-20.295	-12.934
36805840	3680	5840	5/09/2006	248	11:16:10	-27 41 28.12997	135 35 31.66914	156.843	558385.492	6936869.865	149.3	475	2849.33	0.081	0.028	0.048	2849.378	15.96	979106.481	-41.314	46.074	-16.707	-11.947
36805920	3680	5920	5/09/2006	248	11:06:19	-27 41 30.30942	135 36 01.27549	152.167	559196.087	6936798.88	144.603	475	2849.987	0.053	0.029	0.046	2850.033	15.305	979107.136	-40.704	44.624	-16.181	-12.261
36806000	3680	6000	5/09/2006	248	10:58:39	-27 41 30.17583	135 36 30.46555	136.139	559995.623	6936799.071	128.556	475	2852.586	0.049	0.029	0.044	2852.63	12.708	979109.733	-38.105	39.672	-14.385	-12.818
37605440	3760	5440	5/09/2006	248	12:46:19	-27 41 05.01110	135 33 05.63603	167.415	554388.817	6937599.791	159.981	475	2843.712	0.079	0	0.068	2843.78	21.558	979100.883	-46.435	49.37	-17.902	-14.967
37605520	3760	5520	5/09/2006	248	12:53:10	-27 41 04.92242	135 33 35.03072	174.401	555193.998	6937598.892	166.944	475	2842.483	0.084	-0.002	0.07	2842.553	22.785	979099.656	-47.66	51.519	-18.681	-14.823
37605600	3760	5600	5/09/2006	248	13:02:12	-27 41 02.69026	135 34 04.73469	178.16	556007.955	6937663.856	170.68	475	2841.24	0.05	-0.006	0.072	2841.312	24.026	979098.415	-48.855	52.672	-19.099	-15.283

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
37605680	3760	5680	5/09/2006	248	13:12:28	-27 41 04.84296	135 34 33.78529	188.772	556803.395	6937593.926	181.271	475	2839.082	0.097	-0.012	0.074	2839.156	26.182	979096.259	-51.056	55.94	-20.284	-15.4
37605760	3760	5760	5/09/2006	248	13:19:17	-27 41 04.51874	135 35 03.19923	196.071	557609.14	6937600.112	188.549	475	2837.949	0.063	-0.015	0.076	2838.025	27.313	979095.128	-52.18	58.186	-21.099	-15.093
37605840	3760	5840	5/09/2006	248	13:25:40	-27 41 04.26046	135 35 32.04040	197.206	558399.188	6937604.291	189.663	475	2838.13	0.057	-0.019	0.077	2838.207	27.131	979095.31	-51.993	58.53	-21.223	-14.686
37605920	3760	5920	5/09/2006	248	13:33:44	-27 41 02.16432	135 36 01.31762	166.109	559201.458	6937664.912	158.545	475	2844.718	0.073	-0.023	0.079	2844.797	20.541	979101.9	-45.36	48.927	-17.741	-14.174
37606000	3760	6000	5/09/2006	248	13:48:27	-27 41 03.56322	135 36 30.48668	136.152	560000.243	6937617.951	128.568	475	2850.976	0.04	-0.031	0.082	2851.058	14.28	979108.161	-39.127	39.676	-14.387	-13.838
38405360	3840	5360	5/09/2006	248	15:34:01	-27 40 39.22336	135 32 37.33978	151.382	553617.235	6938396.728	143.969	475	2845.39	0.046	-0.077	0.106	2845.496	19.842	979102.599	-44.187	44.429	-16.11	-15.869
38405440	3840	5440	5/09/2006	248	15:27:20	-27 40 38.92094	135 33 05.88589	153.45	554399.252	6938402.562	146.015	475	2845.856	0.082	-0.075	0.105	2845.961	19.377	979103.064	-43.716	45.06	-16.339	-14.995
38405520	3840	5520	5/09/2006	248	15:21:09	-27 40 39.26871	135 33 34.56232	160.05	555184.749	6938388.322	152.592	475	2844.365	0.072	-0.073	0.103	2844.468	20.87	979101.571	-45.216	47.09	-17.075	-15.201
38405600	3840	5600	5/09/2006	248	15:14:43	-27 40 38.91790	135 34 04.41454	165.13	556002.554	6938395.379	157.65	475	2842.773	0.032	-0.071	0.102	2842.875	22.463	979099.978	-46.802	48.651	-17.641	-15.792
38405680	3840	5680	5/09/2006	248	14:38:24	-27 40 38.58353	135 34 33.75647	169.505	556806.379	6938401.941	162.004	475	2841.433	0.07	-0.057	0.093	2841.526	23.812	979098.629	-48.144	49.994	-18.128	-16.278
38405760	3840	5760	5/09/2006	248	14:31:08	-27 40 38.38732	135 35 02.98466	186.168	557607.071	6938404.213	178.646	475	2837.667	0.065	-0.053	0.092	2837.759	27.579	979094.862	-51.907	55.13	-19.99	-16.767
38405840	3840	5840	5/09/2006	248	14:21:13	-27 40 38.39209	135 35 31.96912	185.256	558401.058	6938400.28	177.713	475	2837.99	0.073	-0.048	0.09	2838.08	27.258	979095.183	-51.586	54.842	-19.886	-16.63
38405920	3840	5920	5/09/2006	248	14:11:29	-27 40 38.34562	135 35 59.19314	159.749	559146.828	6938398.106	152.186	475	2843.787	0.049	-0.043	0.087	2843.874	21.464	979100.977	-45.791	46.965	-17.03	-15.856
38406000	3840	6000	5/09/2006	248	13:57:54	-27 40 38.69115	135 36 29.42500	142.037	559974.936	6938383.419	134.455	475	2847.616	0.057	-0.036	0.084	2847.7	17.638	979104.803	-41.972	41.493	-15.045	-15.525
5102	0	5102	6/09/2006	249	8:23:04	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.436	0.093	-0.029	0	2865.436	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	6/09/2006	249	8:24:43	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.436	0.069	-0.028	0	2865.436	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	6/09/2006	249	16:32:18	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.379	0.119	-0.093	0.057	2865.436	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	6/09/2006	249	16:34:10	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.369	0.066	-0.094	0.01	2865.379	0	979122.441	-28.763	32.442	-11.764	-8.085
36804480	3680	4480	6/09/2006	249	14:38:23	-27 41 32.58574	135 27 15.47011	128.743	544794.123	6936790.436	121.607	475	2846.5	0.065	-0.031	0.044	2846.544	18.892	979103.549	-44.338	37.528	-13.608	-20.418
36804560	3680	4560	6/09/2006	249	14:44:50	-27 41 32.26739	135 27 44.52377	153.563	545589.924	6936797.274	146.402	475	2841.426	0.047	-0.036	0.044	2841.47	23.966	979098.475	-49.406	45.18	-16.382	-20.608
36804640	3680	4640	6/09/2006	249	14:53:07	-27 41 32.05791	135 28 14.23111	152.127	546403.619	6936800.641	144.941	475	2842.852	0.053	-0.042	0.045	2842.897	22.539	979099.902	-47.974	44.729	-16.219	-19.465
36804720	3680	4720	6/09/2006	249	15:01:06	-27 41 31.99639	135 28 43.10032	178.635	547194.341	6936799.49	171.424	475	2837.601	0.099	-0.048	0.046	2837.647	27.789	979094.652	-53.223	52.901	-19.182	-19.504
36804800	3680	4800	6/09/2006	249	15:06:57	-27 41 32.02047	135 29 11.63316	159.935	547975.84	6936795.689	152.699	475	2841.989	0.05	-0.052	0.047	2842.036	23.4	979099.041	-48.835	47.123	-17.087	-18.799
36804880	3680	4880	6/09/2006	249	15:13:41	-27 41 31.64054	135 29 41.84651	132.178	548803.418	6936804.086	124.916	475	2848.591	0.058	-0.056	0.048	2848.639	16.797	979105.644	-42.224	38.549	-13.978	-17.653
36804960	3680	4960	6/09/2006	249	15:20:51	-27 41 31.99542	135 30 10.61057	142.618	549591.211	6936789.978	135.331	475	2846.02	0.047	-0.061	0.049	2846.069	19.367	979103.074	-44.801	41.763	-15.143	-18.182
36805040	3680	5040	6/09/2006	249	15:27:20	-27 41 31.15153	135 30 39.80259	163.387	550390.877	6936812.656	156.075	475	2841.547	0.088	-0.065	0.049	2841.596	23.84	979098.601	-49.257	48.165	-17.465	-18.557
36805120	3680	5120	6/09/2006	249	15:36:12	-27 41 31.44536	135 31 09.54202	168.232	551205.394	6936800.211	160.895	475	2841.268	0.067	-0.07	0.05	2841.318	24.118	979098.323	-49.541	49.652	-18.004	-17.893
36805200	3680	5200	6/09/2006	249	15:46:58	-27 41 31.27196	135 31 38.49449	173.53	551998.416	6936802.181	166.168	475	2840.873	0.057	-0.076	0.052	2840.925	24.511	979097.93	-49.93	51.279	-18.594	-17.245
36805280	3680	5280	6/09/2006	249	15:52:38	-27 41 31.14449	135 32 07.55073	188.081	552794.276	6936802.673	180.695	475	2838.633	0.051	-0.079	0.052	2838.685	26.751	979095.69	-52.168	55.762	-20.22	-16.625
36805360	3680	5360	6/09/2006	249	15:59:17	-27 41 31.15955	135 32 37.08147	177.787	553603.114	6936798.67	170.377	475	2842.197	0.068	-0.082	0.053	2842.25	23.186	979099.255	-48.603	52.578	-19.065	-15.09
36805440	3680	5440	6/09/2006	249	16:08:26	-27 41 30.28123	135 33 06.19785	151.772	554400.727	6936822.153	144.339	475	2849.091	0.064	-0.085	0.054	2849.145	16.291	979106.15	-41.69	44.543	-16.151	-13.298
37604480	3760	4480	6/09/2006	249	14:29:02	-27 41 06.41545	135 27 15.35699	139.519	544793.991	6937595.708	132.377	475	2843.975	0.061	-0.025	0.043	2844.018	21.418	979101.023	-46.324	40.852	-14.813	-20.286
37604560	3760	4560	6/09/2006	249	14:20:57	-27 41 05.46009	135 27 44.68361	169.84	545597.395	6937622.119	162.673	475	2837.134	0.049	-0.019	0.042	2837.176	28.26	979094.181	-53.147	50.201	-18.203	-21.149
37604640	3760	4640	6/09/2006	249	14:12:11	-27 41 05.28629	135 28 14.88463	140.329	546424.664	6937624.337	133.137	475	2844.59	0.066	-0.012	0.041	2844.631	20.805	979101.636	-45.688	41.086	-14.898	-19.5
37604720	3760	4720	6/09/2006	249	13:50:21	-27 41 06.04924	135 28 42.89555	170.573	547191.831	6937597.908	163.357	475	2838.421	0.05	0.002	0.038	2838.459	26.977	979095.464	-51.876	50.412	-18.28	-19.743
37604800	3760	4800	6/09/2006	249	13:42:43	-27 41 05.96254	135 29 14.36498	161.668	548053.833	6937597.2	154.425	475	2840.809	0.052	0.007	0.037	2840.846	24.59	979097.851	-49.487	47.656	-17.28	-19.112
37604880	3760	4880	6/09/2006	249	13:36:19	-27 41 05.57520	135 29 41.63436	137.246	548800.827	6937606.143	129.98	475	2846.587	0.058	0.012	0.036	2846.623	18.813	979103.628	-43.702	40.112	-14.545	-18.135
37604960	3760	4960	6/09/2006	249	13:27:59	-27 41 05.16631	135 30 09.85903	145.167	549573.993	6937615.598	137.877	475	2844.769	0.047	0.017	0.035	2844.804	20.632	979101.809	-45.513	42.549	-15.428	-18.392
37605040	3760	5040	6/09/2006	249	13:16:32	-27 41 05.56408	135 30 39.86397	161.994	550395.822	6937599.98	154.679	475	2840.851	0.056	0.024	0.034	2840.885	24.551	979097.89	-49.44	47.734	-17.309	-19.014
37605120	3760	5120	6/09/2006	249	13:10:21	-27 41 05.50151	135 31 09.13222	166.423	551197.531	6937598.556	159.083	475	2840.158	0.079	0.028	0.033	2840.191	25.245	979097.196	-50.133	49.093	-17.801	-18.841
37605200	3760	5200	6/09/2006	249	12:58:44	-27 41 05.02931	135 31 38.48049	164.384	552001.486	6937609.675	157.02	475	2841.289	0.051	0.034	0.032	2841.321	24.115	979098.326	-48.993	48.456	-17.57	-18.107
37605280	3760	5280	6/09/2006	249	12:51:53	-27 41 05.46796	135 32 06.85306	177.705	552778.597	6937592.829	170.318	475	2839.292	0.093	0.038	0.031	2839.323	26.113	979096.328	-51	52.56	-19.059	-17.498
37605360	3760	5360	6/09/2006	249	12:45:40	-27 41 05.05659	135 32 36.44298	161.84	553589.166	6937601.942	154.429	475	2844.449	0.042	0.04	0.031	2844.48	20.956	979101.485	-45.834	47.657	-17.281	-15.458
38404880	3840	4880	6/09/2006	249	11:37:52	-27 40 39.88851	135 29 41.51987	146.817	548800.862	6938396.538	139.547	475	2843.294	0.069	0.059	0.023	2843.317	22.119	979100.322	-46.478	43.064	-15.615	-19.029
38404960	3840	4960	6/09/2006	249	11:45:03	-27 40 39.82936	135 30 10.72814	156.485	549600.978	6938395.122	149.191	475	2841.089	0.07	0.058	0.023	2841.112	24.324	979098.117	-48.682	46.04	-16.694	-19.336
38405040	3840	5040	6/09/2006	249	11:51:33	-27 40 39.60876	135 30 39.85436	153.381	550398.868	6938398.63	146.063	475	2841.614	0.083	0.057	0.024	2841.638	23.798	979098.643	-48.151	45.075	-16.344	-19.421
38405120	3840	5120	6/09/2006	249	11:57:58	-27 40 39.40777	135 31 08.90084	154.874	551194.573	6938401.492	147.532	475	2841.168	0.083	0.056	0.025	2841.193	24.243	979098.198	-48.592	45.528	-16.509	-19.573
38405200	3840	5200	6/09/2006	249	12:30:45	-27 40 39.29629	135 31 37.76548	152.531	551985.285	6938401.568	145.165	475	2841.481	0.047	0.047	0.029	2841.51	23.926	979098.515	-48.273	44.798	-16.244	-19.719
38405280	3840	5280	6/09/2006	249	12:36:57	-27 40 39.26662	135 32 07.28754	172.283	552793.997	6938398.998	164.893	475	2837.885	0.044	0.044	0.029	2837.914	27.522	979094.919	-51.868	50.886	-18.451	-19.434
38405360	3840	5360	6/09/2006	249	9:04:25	-27 40 39.21909	135 32 37.36724	151.382	553617.988	6938396.856	143.969	475	2845.553	0.043	0	0.005	2845.558	19.878	979102.563	-44.223	44.429	-16.11	-15.904
39204880	3920	4880	6/09/2006	249	11:29:42	-27 40 13.73225	135 29 41.24307	152.581	548796.508	6939201.398	145.307	475	2840.536	0.068	0.059	0.022	2840.558	24.878	979097.563	-48.697	44.842	-16.26	-20.115
39204960	3920	4960	6/09/2006	249	11:23:20	-27 40 13.51833	135 30 10.57172	150.729	549599.994	6939204.732	143.431	475	2840.914	0.048	0.059	0.021	2840.935	24.501	979097.94	-48.316	44.263	-16.05	-20.103
39205040	3920	5040	6/09/2006	249	11:16:30	-27 40 13.50114	135 30 39.66392	148.94	550396.979	6939201.986	141.619	475	2840.948	0.062	0.058	0.02	2840.968	24.468	979097.973	-48.283	43.704	-15.847	-20.426
39205120	3920	5120	6/09/2006	249	11:09:33	-27 40 13.51372	135 31 08.59483	149.61	551189.543	6939198.29	142.266	475	2840.153	0.08	0.058	0.019	2840.172	25.264	979097.177	-49.079	43.903	-15.92	-21.095
39205200	3920	5200	6/09/2006	249	10:58:20	-27 40 13.39641	135 31 38.14885	148.673	551999.194	6939198.467	141.305	475	2839.634	0.081	0.056	0.018	2839.652	25.784	979096.657	-49.596	43.607	-15.812	-21.802
39205280	3920	5280	6/09/2006	249	10:51:01	-27 40 13.36206	135 32 07.10366	150.748	552792.419	6939196.108	143.356	475	2839.632	0.057	0.054	0.017	2839.649	25.787	979096.654	-49.599	44.24	-16.041	-21.4
39205360	3920	5360	6/09/2006	249	10:43:42	-27 40 13.18904	135 32 36.50201	153.742	553597.815	6939197.911	146.328	475	2841.738	0.052	0.052	0.016	2841.754	23.682	979098.759	-47.49	45.157	-16.374	-18.707
39205440	3920	5440	6/09/2006	249	10:35:38	-27 40 13.03246	135 33 05.70147	145.59	554397.762	6939199.179	138.153	475	2845.518	0.061	0.05	0.015	2845.533	19.903	979102.538	-43.708	42.634	-15.459	-16.533
39205520	3920	5520	6/09/2006	249	10:28:20	-27 40 12.86348	135 33 34.82392	154.499	555195.602	6939200.785	147.041	475	2843.786	0.045	0.047	0.014	2843.8	21.636	979100.805	-45.437	45.377	-16.454	-16.514
39205600	3920	5600	6/09/2006	249	10:22:10	-27 40 12.78605	135 34 03.93671	159.383	555993.165	6939199.524	151.902	475	2842.413	0.054	0.044	0.014	2842.427	23.009	979099.432	-46.809	46.877	-16.998	-16.93
39205680	3920	5680	6/09/2006	249	10:15:51	-27 40 12.42663	135 34 33.05538	162.695	556790.931	6939206.886	155.193	475	2841.198	0.103	0.042	0.013	2841.211	24.225	979098.216	-48.017	47.893	-17.366	-17.491
39205760	3920	5760	6/09/2006	249	9:59:17	-27 40 12.66816	135 35 02.26858	183.482	557591.201	6939195.693	175.96	475	2835.831	0.083	0.034	0.011	2835.842	29.594	979092.847	-53.391	54.301	-19.69	-18.78
39205840	3920	5840	6/09/2006	249	9:51:30	-27 40 12.72628	135 35 31.69959	170.15	558397.465	6939190.061	162.607	475	2838.897	0.078	0.03	0.01	2838.907	26.529	979095.912	-50.328	50.181	-18.196	-18.343
39205920	3920	5920	6/09/2006	249	9:34:41	-27 40 12.23257	135 36 00.71326	150.021	559192.379	6939201.412	142.458	475	2843.302	0.048	0.02	0.008	2843.31	22.126	979100.315	-45.914	43.963	-15.941	-17.893
39206000	3920	6000	6/09/2006	249	9:23:33	-27 40 12.89984	135 36 29.14351	161.278	559971.137	6939177.066	153.696	475	2840.52	0.048	0.013	0.007	2840.527	24.909	979097.532	-48.711	47.431	-17.199	-18.479
5102	0	5102	7/09/2006	250	7:45:32	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.729	0.041	-0.072	0	2865.729	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	7/09/2006	250	7:47:06	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.718	0.036	-0.071	0.011	2865.729	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	7/09/2006	250	15:01:35	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.678	0.058	-0.008	0.04	2865.718	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	7/09/2006	250	15:03:04	-27 44 13.20631	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.667	0.041	-0.009	0.011	2865.678	0	979122.441	-28.763	32.442	-11.764	-8.085
34404480	3440	4480	7/09/2006	250	12:32:03	-27 42 50.37496	135 27 16.29201	117.234	544807.807	6934396.772	110.121	475	2848.966	0.076	0.087	0.026	2848.992	16.726	979105.715	-43.778	33.983	-12.323	-22.118
34404560	3440	4560	7/09/2006	250	12:37:33	-27 42 50.44890	135 27 45.28274	118.041	545601.683	6934391.542	110.902	475	2849.911	0.047	0.086	0.027	2849.938	15.78	979106.661	-42.834	34.224	-12.41	-21.019
34404640	3440	4640	7/09/2006	250	12:48:15	-27 42 50.08583	135 28 14.31289	118.545	546396.69	6934399.702	111.38	475	2851.184	0.04	0.083	0.028	2851.212	14.506	979107.935	-41.552	34.372	-12.463	-19.644
34404720	3440	4720	7/09/2006	250	12:53:59	-27 42 50.14011	135 28 42.46336	115.346	547167.56	6934395.063	108.155	475	2853.312	0.054	0.081	0.028	2853.34	12.378	979110.063	-39.426	33.377	-12.103	-18.151
34404800	3440	4800	7/09/2006	250	13:04:47	-27 42 49.89444	135 29 13.17944	112.972	548008.723	6934399.326	105.754	475	2854.884	0.045	0.076	0.029	2854.913	10.805	979111.636	-37.847	32.636	-11.834	-17.046
34404880	3440	4880	7/09/2006	250	13:11:48	-27 42 49.71883	135 29 41.94088	126.582	548796.354	6934401.591	119.337	475	2852.38	0.047	0.073	0.03	2852.41	13.308	979109.133	-40.347	36.827	-13.354	-16.873
34404960	3440	4960	7/09/2006	250	13:22:49	-27 42 49.38445	135 30 10.80593	119.736	549586.843	6934408.678	112.465	475	2854.544	0.036	0.067	0.031	2854.575	11.143	979111.298	-38.175	34.707	-12.585	-16.053
34405040	3440	5040	7/09/2006	250	13:29:23	-27 42 49.47618	135 30 40.53342	118.25	550400.897	6934402.505	110.952	475	2855.712	0.038	0.064	0.032	2855.744	9.974	979112.467	-37.008	34.24	-12.415	-15.183
34405120	3440	5120	7/09/2006	250	13:36:19	-27 42 49.38067	135 31 09.69567	123.555	551199.496	6934402.103	116.232	475	2855.873	0.073	0.06	0.032	2855.905	9.813	979112.628	-36.845	35.869	-13.006	-13.982
35204480	3520	4480	7/09/2006	250	10:58:49	-27 42 24.49038	135 27 15.87911	128.915	544799.437	6935193.285	121.794	475	2846.404	0.049	0.074	0.018	2846.422	19.296	979103.145	-45.814	37.586	-13.629	-21.857
35204560	3520	4560	7/09/2006	250	11:04:49	-27 42 24.11879	135 27 44.95047	123.603	545595.625	6935201.757	116.456	475	2848.804	0.051	0.077	0.018	2848.822	16.896	979105.545	-43.406	35.938	-13.031	-20.499
35204640	3520	4640	7/09/2006	250	11:10:50	-27 42 24.08718	135 28 14.65049	123.813	546408.991	6935199.65	116.64	475	2850.276	0.042	0.079	0.019	2850.295	15.423	979107.018	-41.933	35.995	-13.052	-18.99
35204720	3520	4720	7/09/2006	250	11:17:08	-27 42 23.94935	135 28 43.49653	130.693	547198.983	6935200.847	123.494	475	2849.632	0.042	0.082	0.019	2849.651	16.067	979106.374	-42.574	38.11	-13.819	-18.282
35204800	3520	4800	7/09/2006	250	11:24:09	-27 42 23.82715	135 29 12.88879	124.123	548003.934	6935201.454	116.897	475	2851.823	0.057	0.084	0.02	2851.843	13.875	979108.566	-40.379	36.074	-13.081	-17.386
35204880	3520	4880	7/09/2006	250	11:32:12	-27 42 24.02742	135 29 42.01223	125.1	548801.484	6935192.114	117.848	475	2851.861	0.098	0.086	0.021	2851.882	13.836	979108.605	-40.344	36.368	-13.187	-17.164
35204960	3520	4960	7/09/2006	250	11:38:39	-27 42 23.68807	135 30 11.02496	127.977	549596.069	6935199.338	120.7	475	2851.521	0.047	0.088	0.021	2851.542	14.176	979108.265	-40.677	37.248	-13.506	-16.936
35205040	3520	5040	7/09/2006	250	11:49:04	-27 42 23.55015	135 30 40.40389	130.304	550400.66	6935200.271	123.001	475	2851.635	0.033	0.089	0.022	2851.657	14.061	979108.38	-40.559	37.958	-13.764	-16.365
35205120	3520	5120	7/09/2006	250	13:45:00	-27 42 23.29805	135 31 09.82514	132.648	551206.425	6935204.658	125.319	475	2852.166	0.04	0.054	0.033	2852.199	13.519	979108.922	-40.012	38.673	-14.023	-15.362
35205200	3520	5200	7/09/2006	250	14:00:33	-27 42 23.56310	135 31 38.88849	142.749	552002.322	6935193.122	135.394	475	2851.283	0.027	0.042	0.034	2851.317	14.401	979108.04	-40.9	41.783	-15.151	-14.268

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
35205280	3520	5280	7/09/2006	250	14:08:28	-27 42 23.08708	135 32 08.22303	141.076	552805.745	6935204.304	133.696	475	2852.965	0.058	0.037	0.035	2853	12.718	979109.723	-39.207	41.259	-14.961	-12.909
35205360	3520	5360	7/09/2006	250	14:17:03	-27 42 23.05581	135 32 37.22835	140.453	553600.094	6935201.788	133.049	475	2854.249	0.041	0.03	0.036	2854.285	11.433	979111.008	-37.921	41.059	-14.888	-11.75
35205440	3520	5440	7/09/2006	250	14:24:41	-27 42 23.03813	135 33 06.57512	138.704	554403.793	6935198.759	131.276	475	2855.743	0.052	0.023	0.037	2855.78	9.938	979112.503	-36.426	40.512	-14.69	-10.604
35205520	3520	5520	7/09/2006	250	14:32:05	-27 42 22.79766	135 33 35.72627	127.326	555202.166	6935202.557	119.873	475	2859.41	0.037	0.017	0.037	2859.447	6.271	979116.17	-32.754	36.993	-13.414	-9.175
35205600	3520	5600	7/09/2006	250	14:42:00	-27 42 22.86606	135 34 04.52137	137.597	555990.746	6935196.844	130.121	475	2857.791	0.095	0.009	0.038	2857.829	7.889	979114.552	-34.373	40.155	-14.561	-8.779
36004480	3600	4480	7/09/2006	250	10:51:44	-27 41 58.40310	135 27 15.66830	130.737	544796.623	6935996.014	123.607	475	2846.08	0.058	0.071	0.017	2846.097	19.621	979102.82	-45.6	38.145	-13.832	-21.287
36004560	3600	4560	7/09/2006	250	10:44:36	-27 41 57.99571	135 27 44.67712	129.207	545591.155	6936005.595	122.052	475	2847.348	0.063	0.067	0.016	2847.364	18.354	979104.087	-44.325	37.665	-13.658	-20.317
36004640	3600	4640	7/09/2006	250	10:36:25	-27 41 57.16014	135 28 14.97045	168.158	546420.919	6936028.165	160.977	475	2839.621	0.037	0.062	0.016	2839.637	26.081	979096.36	-52.035	49.678	-18.013	-20.37
36004720	3600	4720	7/09/2006	250	10:27:58	-27 41 58.03084	135 28 43.26214	142.419	547195.662	6935998.389	135.212	475	2846.608	0.059	0.057	0.015	2846.623	19.095	979103.346	-45.067	41.726	-15.13	-18.47
36004800	3600	4800	7/09/2006	250	10:20:17	-27 41 58.04014	135 29 12.41420	148.118	547994.071	6935994.976	140.886	475	2845.514	0.035	0.051	0.014	2845.528	20.19	979102.251	-46.162	43.477	-15.765	-18.45
36004880	3600	4880	7/09/2006	250	10:11:31	-27 41 57.66026	135 29 41.67789	132.036	548795.586	6936003.473	124.778	475	2849.347	0.071	0.046	0.013	2849.36	16.358	979106.083	-42.322	38.506	-13.963	-17.778
36004960	3600	4960	7/09/2006	250	10:03:59	-27 41 57.37768	135 30 10.78647	158.236	549592.842	6936008.941	150.953	475	2843.185	0.046	0.04	0.013	2843.198	22.52	979099.921	-48.478	46.584	-16.892	-18.786
36005040	3600	5040	7/09/2006	250	9:53:37	-27 41 57.27642	135 30 40.87591	146.091	550416.941	6936008.666	138.781	475	2846.445	0.039	0.032	0.012	2846.457	19.261	979103.18	-45.217	42.828	-15.53	-17.919
36005120	3600	5120	7/09/2006	250	9:44:24	-27 41 57.40544	135 31 08.95011	172.627	551185.817	6936001.482	165.293	475	2841.57	0.066	0.024	0.011	2841.581	24.137	979098.304	-50.096	51.009	-18.496	-17.583
36005200	3600	5200	7/09/2006	250	9:16:54	-27 41 57.30990	135 31 38.42588	183.506	551993.11	6936000.995	176.147	475	2840.376	0.073	0.001	0.008	2840.384	25.334	979097.107	-51.291	54.359	-19.711	-16.643
36005280	3600	5280	7/09/2006	250	9:08:22	-27 41 59.95721	135 32 07.49929	156.728	552789.017	6935916.103	149.344	475	2847.784	0.053	-0.006	0.007	2847.791	17.927	979104.514	-43.938	46.088	-16.712	-14.562
36005360	3600	5360	7/09/2006	250	8:55:33	-27 41 56.95928	135 32 36.87494	154.219	553593.957	6936004.829	146.811	475	2849.661	0.04	-0.017	0.006	2849.667	16.051	979106.39	-42.001	45.306	-16.428	-13.123
36005440	3600	5440	7/09/2006	250	8:47:38	-27 41 57.17483	135 33 05.96451	154.809	554390.632	6935994.657	147.377	475	2850.842	0.04	-0.024	0.006	2850.848	14.87	979107.571	-40.824	45.481	-16.491	-11.835
36005520	3600	5520	7/09/2006	250	8:37:56	-27 41 56.70469	135 33 35.53952	137.412	555200.699	6936005.471	129.956	475	2855.758	0.057	-0.032	0.005	2855.763	9.955	979112.486	-35.899	40.104	-14.542	-10.337
5102	0	5102	8/09/2006	251	8:13:19	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.934	0.039	-0.07	0	2865.934	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	8/09/2006	251	8:14:48	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.944	0.026	-0.069	-0.01	2865.934	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	8/09/2006	251	10:53:15	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.927	0.062	0.074	0.017	2865.944	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	8/09/2006	251	10:54:36	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2865.923	0.046	0.075	0.004	2865.927	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	8/09/2006	251	14:08:07	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2866.003	0.048	0.087	-0.08	2865.923	0	979122.441	-28.763	32.442	-11.764	-8.085
5102	0	5102	8/09/2006	251	14:10:31	-27 44 13.20632	135 32 32.00746	112.504	553442.192	6931813.041	105.126	475	2866.003	0.016	0.086	0	2866.003	0	979122.441	-28.763	32.442	-11.764	-8.085
24805040	2480	5040	8/09/2006	251	10:12:41	-27 48 01.23954	135 30 41.75024	94.977	550394.325	6924809.258	87.78	475	2872.096	0.038	0.039	0.013	2872.109	-6.165	979128.606	-27.313	27.089	-9.823	-10.047
24805120	2480	5120	8/09/2006	251	10:05:01	-27 48 01.37765	135 31 10.93844	94.276	551192.972	6924801.655	87.05	475	2874.365	0.066	0.032	0.012	2874.377	-8.433	979130.874	-25.048	26.864	-9.741	-7.926
24805200	2480	5200	8/09/2006	251	9:59:48	-27 48 01.34938	135 31 40.50272	94.722	552001.932	6924799.076	87.467	475	2875.967	0.048	0.027	0.011	2875.978	-10.034	979132.475	-23.447	26.992	-9.788	-6.242
24805280	2480	5280	8/09/2006	251	9:54:59	-27 48 01.28532	135 32 09.39877	94.926	552792.613	6924797.623	87.643	475	2876.995	0.034	0.022	0.011	2877.006	-11.062	979133.503	-22.417	27.047	-9.807	-5.178
24805360	2480	5360	8/09/2006	251	9:49:48	-27 48 01.11254	135 32 38.76842	94.715	553596.269	6924799.407	87.405	475	2877.541	0.058	0.017	0.01	2877.551	-11.607	979134.048	-21.869	26.973	-9.781	-4.676
24805440	2480	5440	8/09/2006	251	9:44:21	-27 48 00.88135	135 33 07.91966	95.339	554393.958	6924802.962	88.002	475	2877.486	0.047	0.011	0.01	2877.496	-11.552	979133.993	-21.919	27.157	-9.847	-4.609
24805520	2480	5520	8/09/2006	251	9:38:15	-27 48 00.91158	135 33 37.11211	94.379	555192.739	6924798.415	87.014	475	2877.294	0.032	0.005	0.009	2877.303	-11.359	979133.8	-22.113	26.853	-9.737	-4.997
24805600	2480	5600	8/09/2006	251	9:32:35	-27 48 00.78436	135 34 06.23938	90.351	555989.76	6924798.668	82.959	475	2877.763	0.036	0	0.008	2877.771	-11.827	979134.268	-21.642	25.601	-9.283	-5.324
24805680	2480	5680	8/09/2006	251	9:27:32	-27 48 00.87089	135 34 35.33871	86.437	556785.986	6924792.295	79.02	475	2878.28	0.054	-0.004	0.008	2878.288	-12.344	979134.785	-21.127	24.386	-8.842	-5.583
24805760	2480	5760	8/09/2006	251	9:22:10	-27 48 00.39597	135 35 04.61949	85.524	557587.26	6924803.122	78.08	475	2878.308	0.034	-0.009	0.007	2878.315	-12.371	979134.812	-21.09	24.095	-8.737	-5.732
24805840	2480	5840	8/09/2006	251	9:13:42	-27 48 00.28313	135 35 33.98971	86.236	558390.931	6924802.743	78.767	475	2877.767	0.058	-0.017	0.006	2877.773	-11.829	979134.27	-21.63	24.307	-8.814	-6.136
24805920	2480	5920	8/09/2006	251	9:08:18	-27 48 00.40902	135 36 03.46328	89.217	559197.394	6924794.951	81.722	475	2876.76	0.035	-0.023	0.006	2876.766	-10.822	979133.263	-22.639	25.219	-9.145	-6.565
32005360	3200	5360	8/09/2006	251	8:33:33	-27 44 07.04268	135 32 37.68769	108.316	553598.547	6932002.013	100.931	475	2866.815	0.032	-0.054	0.002	2866.817	-0.873	979123.314	-27.763	31.147	-11.294	-7.91
32805600	3280	5600	8/09/2006	251	10:37:43	-27 43 40.61223	135 34 05.15968	116.261	555997.195	6932804.477	108.796	475	2866.014	0.04	0.061	0.015	2866.029	-0.085	979122.526	-28.005	33.574	-12.174	-6.605
5103	0	5103	9/09/2006	252	8:12:26	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.074	0.036	-0.085	0	2874.074	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	9/09/2006	252	8:16:14	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.077	0.031	-0.083	-0.003	2874.074	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	9/09/2006	252	15:44:27	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.024	0.065	0.059	0.053	2874.077	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	9/09/2006	252	15:46:17	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.024	0.083	0.058	0	2874.024	0	979130.365	-25.896	27.347	-9.916	-8.465
225000	22	5000	9/09/2006	252	14:10:19	-27 43 27.22850	135 34 49.44252	133.815	557211.639	6933210.647	126.315	475	2862.087	0.072	0.127	0.042	2862.129	11.948	979118.417	-31.837	38.981	-14.135	-6.991
225010	22	5010	9/09/2006	252	14:14:24	-27 43 25.26789	135 34 51.55056	135.135	557269.645	6933270.704	127.632	475	2861.704	0.052	0.126	0.042	2861.746	12.331	979118.034	-32.18	39.387	-14.282	-7.075
225020	22	5020	9/09/2006	252	14:18:20	-27 43 22.98273	135 34 54.28584	138.283	557344.875	6933340.666	130.778	475	2860.947	0.05	0.124	0.043	2860.99	13.087	979117.278	-32.889	40.358	-14.634	-7.165
225030	22	5030	9/09/2006	252	14:22:29	-27 43 20.47643	135 34 56.92866	140.263	557417.605	6933417.444	132.756	475	2860.362	0.04	0.122	0.043	2860.405	13.672	979116.693	-33.422	40.969	-14.855	-7.309
225040	22	5040	9/09/2006	252	14:26:22	-27 43 18.30000	135 34 59.26161	140.264	557481.804	6933484.112	132.755	475	2860.293	0.037	0.12	0.044	2860.337	13.74	979116.625	-33.445	40.968	-14.855	-7.332
225050	22	5050	9/09/2006	252	14:30:10	-27 43 16.04999	135 35 01.96774	138.867	557556.233	6933552.995	131.356	475	2860.586	0.046	0.117	0.044	2860.63	13.447	979116.918	-33.106	40.536	-14.699	-7.268
225060	22	5060	9/09/2006	252	14:34:32	-27 43 13.63851	135 35 04.41545	137.067	557623.61	6933626.88	129.554	475	2861.039	0.035	0.114	0.045	2861.084	12.993	979117.372	-32.602	39.98	-14.497	-7.118
225070	22	5070	9/09/2006	252	14:37:54	-27 43 11.45602	135 35 07.03601	134.242	557695.687	6933693.695	126.726	475	2861.751	0.032	0.113	0.045	2861.796	12.281	979118.084	-31.845	39.108	-14.181	-6.918
225080	22	5080	9/09/2006	252	14:41:32	-27 43 09.04985	135 35 09.54158	133.641	557764.649	6933767.408	126.123	475	2861.949	0.049	0.11	0.046	2861.995	12.082	979118.283	-31.596	38.922	-14.113	-6.788
225090	22	5090	9/09/2006	252	14:45:18	-27 43 06.79523	135 35 12.21210	136.122	557838.107	6933836.436	128.602	475	2861.533	0.042	0.108	0.046	2861.579	12.498	979117.867	-31.965	39.687	-14.391	-6.669
225100	22	5100	9/09/2006	252	14:48:49	-27 43 04.48142	135 35 14.69931	136.9	557906.554	6933907.308	129.377	475	2861.456	0.04	0.105	0.046	2861.502	12.575	979117.79	-31.995	39.926	-14.477	-6.546
225110	22	5110	9/09/2006	252	14:52:37	-27 43 02.16601	135 35 17.31016	137.789	557978.388	6933978.214	130.264	475	2861.339	0.046	0.102	0.047	2861.386	12.691	979117.674	-32.063	40.199	-14.577	-6.44
225120	22	5120	9/09/2006	252	14:56:11	-27 42 59.87883	135 35 19.79153	137.034	558046.674	6934048.267	129.507	475	2861.558	0.047	0.1	0.047	2861.605	12.472	979117.893	-31.797	39.966	-14.492	-6.322
225130	22	5130	9/09/2006	252	15:00:47	-27 42 57.55208	135 35 22.35809	134.082	558117.298	6934119.526	126.553	475	2862.262	0.032	0.096	0.048	2862.31	11.767	979118.598	-31.044	39.054	-14.161	-6.15
225140	22	5140	9/09/2006	252	15:04:38	-27 42 55.22813	135 35 24.99093	131.058	558189.738	6934190.69	123.526	475	2862.957	0.063	0.093	0.048	2863.005	11.072	979119.293	-30.301	38.12	-13.823	-6.003
225150	22	5150	9/09/2006	252	15:08:50	-27 42 52.89337	135 35 27.59054	126.482	558261.271	6934262.191	118.949	475	2863.964	0.122	0.09	0.049	2864.013	10.064	979120.301	-29.244	36.708	-13.31	-5.847
225160	22	5160	9/09/2006	252	15:12:36	-27 42 50.62229	135 35 30.13693	124.279	558331.337	6934331.738	116.743	475	2864.353	0.023	0.087	0.049	2864.402	9.675	979120.69	-28.808	36.027	-13.064	-5.845
225170	22	5170	9/09/2006	252	15:17:15	-27 42 48.17621	135 35 32.75888	119.873	558403.5	6934406.66	112.335	475	2865.308	0.039	0.084	0.05	2865.358	8.719	979121.646	-27.802	34.667	-12.57	-5.706
30003900	3000	3900	9/09/2006	252	9:39:58	-27 45 14.12057	135 23 44.93411	104.312	539005.759	6929993.679	97.436	475	2848.406	0.098	-0.013	0.01	2848.416	25.661	979104.704	-47.759	30.069	-10.903	-28.593
30003920	3000	3920	9/09/2006	252	9:46:19	-27 45 13.82451	135 23 52.03496	104.411	539200.167	6930002.162	97.529	475	2848.428	0.092	-0.007	0.011	2848.439	25.638	979104.727	-47.73	30.097	-10.913	-28.546
30003940	3000	3940	9/09/2006	252	9:53:39	-27 45 13.84711	135 23 59.34592	104.686	539400.295	6930000.818	97.799	475	2848.436	0.084	0.001	0.012	2848.448	25.629	979104.736	-47.722	30.181	-10.944	-28.484
30003960	3000	3960	9/09/2006	252	10:02:58	-27 45 13.84804	135 24 06.61688	104.907	539599.33	6930000.141	98.013	475	2848.549	0.104	0.01	0.013	2848.562	25.515	979104.85	-47.608	30.247	-10.968	-28.328
30003980	3000	3980	9/09/2006	252	10:07:09	-27 45 13.79055	135 24 13.93386	104.946	539799.631	6930001.254	98.046	475	2848.631	0.038	0.014	0.013	2848.644	25.433	979104.932	-47.524	30.257	-10.971	-28.239
30004000	3000	4000	9/09/2006	252	10:13:46	-27 45 13.79160	135 24 21.25687	105.01	540000.091	6930000.562	98.104	475	2848.765	0.096	0.021	0.014	2848.779	25.298	979105.067	-47.389	30.275	-10.978	-28.092
30004020	3000	4020	9/09/2006	252	10:20:01	-27 45 13.75447	135 24 28.57571	104.801	540200.441	6930001.042	97.889	475	2848.99	0.059	0.028	0.015	2849.005	25.072	979105.293	-47.163	30.209	-10.954	-27.908
30004040	3000	4040	9/09/2006	252	10:26:19	-27 45 13.71872	135 24 35.83951	104.759	540399.284	6930001.481	97.84	475	2849.213	0.053	0.034	0.015	2849.228	24.849	979105.516	-46.939	30.193	-10.948	-27.694
30004060	3000	4060	9/09/2006	252	10:32:54	-27 45 13.75848	135 24 43.14366	104.981	540599.224	6929999.59	98.056	475	2849.449	0.048	0.041	0.016	2849.465	24.612	979105.753	-46.703	30.26	-10.972	-27.415
30004080	3000	4080	9/09/2006	252	10:39:20	-27 45 13.72531	135 24 50.58149	105.213	540802.831	6929999.927	98.282	475	2849.812	0.072	0.047	0.017	2849.829	24.248	979106.117	-46.338	30.33	-10.998	-27.006
30004100	3000	4100	9/09/2006	252	10:45:27	-27 45 13.66176	135 24 57.79951	104.66	541000.424	6930001.216	97.722	475	2850.371	0.038	0.053	0.018	2850.389	23.688	979106.677	-45.777	30.157	-10.935	-26.555
30004120	3000	4120	9/09/2006	252	10:52:05	-27 45 13.69844	135 25 05.13127	105.182	541201.12	6929999.407	98.238	475	2850.768	0.047	0.06	0.018	2850.786	23.291	979107.074	-45.38	30.316	-10.993	-26.057
30004140	3000	4140	9/09/2006	252	10:58:20	-27 45 13.64586	135 25 12.39006	106.031	541399.828	6930000.348	99.081	475	2851.069	0.062	0.065	0.019	2851.088	22.989	979107.376	-45.077	30.576	-11.087	-25.588
30004160	3000	4160	9/09/2006	252	11:04:34	-27 45 13.61232	135 25 19.74452	105.719	541601.153	6930000.691	98.762	475	2851.614	0.054	0.072	0.02	2851.634	22.443	979107.922	-44.531	30.478	-11.051	-25.104
30004180	3000	4180	9/09/2006	252	11:11:29	-27 45 13.57701	135 25 26.91778	105.832	541797.518	6930001.102	98.869	475	2852.009	0.052	0.077	0.021	2852.03	22.047	979108.318	-44.134	30.511	-11.063	-24.686
30004200	3000	4200	9/09/2006	252	11:17:51	-27 45 13.56740	135 25 34.26331	106.043	541998.596	6930000.703	99.074	475	2852.233	0.042	0.083	0.021	2852.254	21.823	979108.542	-43.91	30.574	-11.086	-24.422
30004220	3000	4220	9/09/2006	252	11:24:41	-27 45 13.54990	135 25 41.62100	106.107	542200.008	6930000.542	99.132	475	2852.45	0.043	0.089	0.022	2852.472	21.605	979108.76	-43.691	30.592	-11.093	-24.192
30004240	3000	4240	9/09/2006	252	11:31:00	-27 45 13.54381	135 25 48.89257	105.925	542399.061	6930000.035	98.943	475	2852.661	0.085	0.094	0.023	2852.684	21.393	979108.972	-43.479	30.534	-11.072	-24.017
30004260	3000	4260	9/09/2006	252	11:37:37	-27 45 13.48898	135 25 56.13705	105.8	542597.378	6930001.027	98.812	475	2852.708	0.06	0.1	0.024	2852.732	21.345	979109.02	-43.43	30.493	-11.057	-23.994
30004280	3000	4280	9/09/2006	252	11:43:48	-27 45 13.49626	135 26 03.54550	105.16	542800.177	6930000.089	98.165	475	2852.847	0.058	0.104	0.025	2852.872	21.205	979109.16	-43.29	30.294	-10.985	-23.981
30004300	3000	4300	9/09/2006	252	11:50:00	-27 45 13.47805	135 26 10.75411	105.3	542997.508	6929999.951	98.299	475	2852.825	0.048	0.108	0.025	2852.85	21.227	979109.138	-43.312	30.335	-11	-23.976
30004320	3000	4320	9/09/2006	252	11:56:22	-27 45 13.44494	135 26 17.97850	104.636	543195.273	6930000.267	97.628	475	2852.937	0.047	0.112	0.026	2852.963	21.114	979109.251	-43.198	30.128	-10.925	-23.995
30004340	3000	4340	9/09/2006	252	12:02:48	-27 45 13.40184	135 26 25.27511	103.772	543395.016	6930000.88	96.757	475	2853.032	0.05	0.117	0.027	2853.059	21.018	979109.347	-43.101	29.859	-10.827	-24.069
30004360	3000	4360	9/09/2006	252	12:28:22	-27 45 13.40690	135 26 32.78318	104.868	543600.542	6929999.987	97.846	475	2852.718	0.056	0.129	0.03	2852.748	21.329	979109.036	-43.412	30.195	-10.949	-24.166
30004380	3000	4380	9/09/2006	252	12:35:12	-27 45 13.40024	135 26 39.99690	103.471	543798.012	6929999.48	96.442	475	2852.909	0.047	0.132	0.031	2852.94	21.137	979109.228	-43.22	29.762	-10.792	-24.25
30004400	3000	4400	9/09/2006	252	12:41:25	-27 45 13.34009	135 26 47.42213	102.414	544001.278	6930000.595	95.379	475	2853.097	0.08	0.134	0.031	2853.128	20.949	979109.416	-43.031	29.434	-10.673	-24.27
30004420	3000	4420	9/09/2006	252	12:48:12	-27 45 13.42766	135 26 54.11680	102.139	544184.529	6929997.234	95.097	475	2853.065	0.042	0.136	0.032	2853.097	20.98	979109.385	-43.064	29.347	-10.641	-24.358

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
30004440	3000	4440	9/09/2006	252	12:55:10	-27 45 13.33163	135 27 01.95421	105.183	544399.082	6929999.405	98.134	475	2852.339	0.047	0.137	0.033	2852.372	21.705	979108.66	-43.787	30.284	-10.981	-24.484
30004460	3000	4460	9/09/2006	252	13:01:35	-27 45 13.30375	135 27 09.20152	104.986	544597.474	6929999.535	97.93	475	2852.343	0.04	0.138	0.034	2852.377	21.7	979108.665	-43.781	30.221	-10.958	-24.518
30004480	3000	4480	9/09/2006	252	13:07:56	-27 45 13.26662	135 27 16.54789	105.19	544798.579	6929999.936	98.127	475	2852.429	0.045	0.139	0.034	2852.463	21.614	979108.751	-43.694	30.282	-10.98	-24.393
30004500	3000	4500	9/09/2006	252	13:14:05	-27 45 13.21331	135 27 23.82358	104.836	544997.751	6930000.839	97.767	475	2852.59	0.059	0.139	0.035	2852.625	21.452	979108.913	-43.531	30.171	-10.94	-24.301
30004520	3000	4520	9/09/2006	252	13:20:02	-27 45 13.20318	135 27 31.08652	104.64	545196.569	6930000.411	97.564	475	2852.772	0.043	0.139	0.036	2852.808	21.269	979109.096	-43.348	30.108	-10.917	-24.157
30004540	3000	4540	9/09/2006	252	13:26:31	-27 45 13.18264	135 27 38.33425	104.853	545394.972	6930000.302	97.77	475	2852.866	0.048	0.139	0.037	2852.903	21.174	979109.191	-43.253	30.172	-10.94	-24.021
30004560	3000	4560	9/09/2006	252	13:32:44	-27 45 13.18823	135 27 45.82027	104.532	545599.895	6929999.361	97.442	475	2853.101	0.054	0.138	0.037	2853.138	20.939	979109.426	-43.018	30.071	-10.904	-23.851
5103	0	5103	10/09/2006	253	9:45:37	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.292	0.092	-0.03	0	2874.292	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	10/09/2006	253	9:47:12	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.297	0.071	-0.029	-0.005	2874.292	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	10/09/2006	253	15:57:40	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.297	0.043	0.094	0	2874.297	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	10/09/2006	253	15:59:03	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.288	0.036	0.093	0.009	2874.297	0	979130.365	-25.896	27.347	-9.916	-8.465
22404640	2240	4640	10/09/2006	253	13:57:52	-27 49 19.03607	135 28 16.09224	85.699	546399.565	6922431.352	78.673	475	2865.047	0.038	0.148	0	2865.047	9.25	979121.115	-36.415	24.278	-8.803	-20.94
22404720	2240	4720	10/09/2006	253	14:14:36	-27 49 19.96483	135 28 45.36655	85.292	547200.314	6922399.674	78.238	475	2867.175	0.034	0.147	0	2867.175	7.122	979123.243	-34.306	24.144	-8.755	-18.916
22404800	2240	4800	10/09/2006	253	14:21:43	-27 49 19.68923	135 29 14.43737	85.803	547995.64	6922405.023	78.721	475	2868.765	0.059	0.145	0	2868.765	5.532	979124.833	-32.71	24.293	-8.809	-17.226
22404880	2240	4880	10/09/2006	253	14:27:51	-27 49 19.74205	135 29 43.73464	88.493	548797.121	6922400.189	81.383	475	2869.775	0.046	0.144	0	2869.775	4.522	979125.843	-31.701	25.115	-9.107	-15.693
22404960	2240	4960	10/09/2006	253	14:34:08	-27 49 19.69242	135 30 12.82064	92.082	549592.837	6922398.478	84.943	475	2870.405	0.035	0.142	0	2870.405	3.892	979126.473	-31.07	26.213	-9.505	-14.362
22405040	2240	5040	10/09/2006	253	14:39:17	-27 49 19.51195	135 30 42.05734	86.104	550392.692	6922400.724	78.937	475	2873.257	0.053	0.141	0	2873.257	1.04	979129.325	-28.214	24.36	-8.833	-12.687
22405120	2240	5120	10/09/2006	253	14:44:41	-27 49 19.45295	135 31 11.17237	88.524	551189.205	6922399.193	81.328	475	2874.234	0.037	0.138	0	2874.234	0.063	979130.302	-27.236	25.098	-9.101	-11.239
22405200	2240	5200	10/09/2006	253	14:53:14	-27 49 19.42242	135 31 40.60167	88.055	551994.312	6922396.697	80.83	475	2875.792	0.045	0.135	0	2875.792	-1.495	979131.86	-25.678	24.944	-9.045	-9.778
22405280	2240	5280	10/09/2006	253	15:00:11	-27 49 19.04390	135 32 10.12918	90.085	552802.153	6922404.843	82.832	475	2876.427	0.087	0.132	0	2876.427	-2.13	979132.495	-25.035	25.562	-9.269	-8.742
22405360	2240	5360	10/09/2006	253	15:05:06	-27 49 19.31458	135 32 39.53577	90.755	553606.6	6922392.974	83.474	475	2877.063	0.038	0.129	0	2877.063	-2.766	979133.131	-24.404	25.76	-9.341	-7.985
22405440	2240	5440	10/09/2006	253	15:09:47	-27 49 18.88420	135 33 08.70467	90.28	554404.641	6922402.652	82.972	475	2877.737	0.06	0.127	0	2877.737	-3.44	979133.805	-23.722	25.605	-9.285	-7.401
22405520	2240	5520	10/09/2006	253	15:14:26	-27 49 18.69358	135 33 37.92740	87.71	555204.123	6922404.894	80.374	475	2878.525	0.035	0.125	0	2878.525	-4.228	979134.593	-22.93	24.803	-8.994	-7.12
22405600	2240	5600	10/09/2006	253	15:19:32	-27 49 18.82340	135 34 07.02448	86.794	556000.123	6922397.238	79.431	475	2878.473	0.029	0.121	0	2878.473	-4.176	979134.541	-22.984	24.512	-8.888	-7.36
22405680	2240	5680	10/09/2006	253	15:24:44	-27 49 18.55322	135 34 36.50101	83.971	556806.563	6922401.79	76.581	475	2879.01	0.04	0.118	0	2879.01	-4.713	979135.078	-22.442	23.633	-8.569	-7.378
22405760	2240	5760	10/09/2006	253	15:30:58	-27 49 18.76445	135 35 05.64905	82.326	557603.946	6922391.517	74.909	475	2879.475	0.05	0.114	0	2879.475	-5.178	979135.543	-21.981	23.117	-8.382	-7.246
22405840	2240	5840	10/09/2006	253	15:36:04	-27 49 18.24288	135 35 34.79452	83.437	558401.369	6922403.741	75.993	475	2879.183	0.035	0.111	0	2879.183	-4.886	979135.251	-22.262	23.451	-8.504	-7.314
22405920	2240	5920	10/09/2006	253	15:41:23	-27 49 18.43177	135 36 03.78057	86.688	559194.325	6922394.072	79.217	475	2878.127	0.042	0.107	0	2878.127	-3.83	979134.195	-23.322	24.446	-8.864	-7.74
22406000	2240	6000	10/09/2006	253	15:46:56	-27 49 18.23113	135 36 33.25503	90.888	560000.703	6922396.271	83.391	475	2876.942	0.037	0.103	0	2876.942	-2.645	979133.01	-24.503	25.734	-9.331	-8.1
23204640	2320	4640	10/09/2006	253	13:29:45	-27 48 53.59463	135 28 17.01809	88.356	546427.899	6923214.105	81.32	475	2863.89	0.046	0.146	0	2863.89	10.407	979119.958	-37.045	25.095	-9.1	-21.049
23204720	2320	4720	10/09/2006	253	13:16:38	-27 48 54.21687	135 28 45.16895	93.035	547198	6923191.976	85.972	475	2864.833	0.057	0.142	0	2864.833	9.464	979120.901	-36.115	26.531	-9.62	-19.204
23204800	2320	4800	10/09/2006	253	13:10:43	-27 48 53.91662	135 29 14.44077	89.9	547998.881	6923198.063	82.809	475	2867.157	0.055	0.14	0	2867.157	7.14	979123.225	-33.785	25.555	-9.266	-17.496
23204880	2320	4880	10/09/2006	253	13:02:46	-27 48 53.74532	135 29 43.61767	91.734	548797.15	6923200.14	84.614	475	2868.452	0.04	0.137	0	2868.452	5.845	979124.52	-32.486	26.112	-9.468	-15.843
23204960	2320	4960	10/09/2006	253	12:55:56	-27 48 53.83803	135 30 12.88684	86.899	549597.911	6923194.029	79.75	475	2871.339	0.031	0.134	0	2871.339	2.958	979127.407	-29.601	24.611	-8.924	-13.914
23205040	2320	5040	10/09/2006	253	12:48:53	-27 48 53.54664	135 30 42.42257	86.928	550406.014	6923199.654	79.751	475	2873.26	0.034	0.131	0	2873.26	1.037	979129.328	-27.674	24.611	-8.924	-11.987
23205120	2320	5120	10/09/2006	253	12:42:35	-27 48 53.14620	135 31 11.38909	93.432	551198.561	6923208.647	86.225	475	2873.692	0.056	0.128	0	2873.692	0.605	979129.76	-27.234	26.609	-9.649	-10.273
23205200	2320	5200	10/09/2006	253	12:35:29	-27 48 53.22843	135 31 40.62021	91.199	551998.285	6923202.705	83.964	475	2875.889	0.031	0.123	0	2875.889	-1.592	979131.957	-25.038	25.911	-9.396	-8.523
23205280	2320	5280	10/09/2006	253	12:26:40	-27 48 53.14199	135 32 09.74952	92.04	552795.246	6923201.912	84.777	475	2876.934	0.083	0.118	0	2876.934	-2.637	979133.002	-23.992	26.162	-9.487	-7.316
23205360	2320	5360	10/09/2006	253	12:21:17	-27 48 53.07708	135 32 39.14350	91.534	553599.447	6923200.371	84.244	475	2877.759	0.058	0.114	0	2877.759	-3.462	979133.827	-23.165	25.998	-9.427	-6.594
23205440	2320	5440	10/09/2006	253	12:13:48	-27 48 52.95473	135 33 08.30723	91.119	554397.357	6923200.574	83.801	475	2878.196	0.027	0.109	0	2878.196	-3.899	979134.264	-22.726	25.861	-9.377	-6.242
23205520	2320	5520	10/09/2006	253	12:00:28	-27 48 52.95932	135 33 37.62002	91.135	555199.329	6923196.798	83.79	475	2878.145	0.048	0.098	0	2878.145	-3.848	979134.213	-22.777	25.858	-9.376	-6.295
23205600	2320	5600	10/09/2006	253	11:55:44	-27 48 52.97485	135 34 06.61598	90.729	555992.631	6923192.673	83.357	475	2877.899	0.04	0.095	0	2877.899	-3.602	979133.967	-23.023	25.724	-9.328	-6.627
23205680	2320	5680	10/09/2006	253	11:50:18	-27 48 52.38406	135 34 35.85131	82.461	556792.57	6923207.123	75.062	475	2879.517	0.048	0.09	0	2879.517	-5.22	979135.585	-21.393	23.164	-8.399	-6.628
23205760	2320	5760	10/09/2006	253	11:22:02	-27 48 52.41610	135 35 05.03362	83.445	557590.971	6923202.361	76.019	475	2879.156	0.048	0.064	0	2879.156	-4.859	979135.224	-21.755	23.459	-8.507	-6.802
23205840	2320	5840	10/09/2006	253	11:16:14	-27 48 52.26220	135 35 34.07926	84.171	558385.661	6923203.286	76.718	475	2878.93	0.043	0.059	0	2878.93	-4.633	979134.998	-21.977	23.675	-8.585	-6.887
23205920	2320	5920	10/09/2006	253	11:04:22	-27 48 52.23959	135 36 03.30166	86.75	559185.168	6923200.096	79.271	475	2878.13	0.033	0.047	0	2878.13	-3.833	979134.198	-22.777	24.463	-8.87	-7.184
23206000	2320	6000	10/09/2006	253	10:58:24	-27 48 52.04537	135 36 33.42322	94.909	560009.303	6923202.011	87.404	475	2875.687	0.047	0.041	0	2875.687	-1.39	979131.755	-25.216	26.973	-9.78	-8.023
5103	0	5103	11/09/2006	254	7:52:04	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.563	0.048	-0.093	0	2874.563	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	11/09/2006	254	7:53:26	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.559	0.052	-0.093	0.004	2874.563	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	11/09/2006	254	15:51:59	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.569	0.103	0.126	-0.01	2874.559	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	11/09/2006	254	15:53:26	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.578	0.058	0.125	-0.009	2874.569	0	979130.365	-25.896	27.347	-9.916	-8.465
225170	22	5170	11/09/2006	254	14:30:21	-27 42 48.24355	135 35 32.57111	120.153	558398.348	6934404.613	112.615	475	2865.749	0.032	0.144	-0.008	2865.741	8.818	979121.547	-27.902	34.753	-12.602	-5.751
225180	22	5180	11/09/2006	254	14:34:00	-27 42 45.96097	135 35 35.31368	121.754	558473.79	6934474.488	114.214	475	2865.243	0.068	0.145	-0.008	2865.235	9.324	979121.041	-28.361	35.246	-12.781	-5.895
225190	22	5190	11/09/2006	254	14:37:23	-27 42 43.63901	135 35 37.88934	123.261	558544.668	6934545.596	115.719	475	2864.735	0.074	0.145	-0.008	2864.727	9.832	979120.533	-28.821	35.711	-12.949	-6.059
225200	22	5200	11/09/2006	254	14:40:42	-27 42 41.40374	135 35 40.43172	125.027	558614.623	6934614.04	117.483	475	2864.15	0.034	0.145	-0.009	2864.141	10.418	979119.947	-29.361	36.255	-13.146	-6.252
225210	22	5210	11/09/2006	254	14:43:45	-27 42 39.04938	135 35 43.03823	128.01	558686.353	6934686.141	120.464	475	2863.2	0.04	0.144	-0.009	2863.191	11.368	979118.997	-30.263	37.175	-13.48	-6.567
225220	22	5220	11/09/2006	254	14:47:05	-27 42 36.69041	135 35 45.62680	130.049	558757.592	6934758.385	122.5	475	2862.493	0.033	0.144	-0.009	2862.484	12.075	979118.29	-30.921	37.804	-13.708	-6.825
225230	22	5230	11/09/2006	254	14:51:00	-27 42 34.51558	135 35 48.12340	126.924	558826.286	6934824.975	119.374	475	2862.963	0.089	0.144	-0.009	2862.954	11.605	979118.76	-30.406	36.839	-13.358	-6.925
225240	22	5240	11/09/2006	254	14:54:22	-27 42 32.16754	135 35 50.61627	122.992	558894.905	6934896.894	115.439	475	2863.583	0.073	0.144	-0.009	2863.574	10.985	979119.38	-29.737	35.624	-12.918	-7.03
225250	22	5250	11/09/2006	254	14:59:31	-27 42 29.83232	135 35 53.22741	120.34	558966.762	6934968.403	112.785	475	2863.933	0.03	0.143	-0.009	2863.924	10.635	979119.73	-29.339	34.805	-12.621	-7.154
225260	22	5260	11/09/2006	254	15:03:22	-27 42 27.45021	135 35 55.61968	119.608	559032.633	6935041.384	112.051	475	2863.787	0.033	0.142	-0.009	2863.778	10.781	979119.584	-29.436	34.579	-12.538	-7.396
225270	22	5270	11/09/2006	254	15:06:47	-27 42 25.36970	135 35 58.39117	123.998	559108.844	6935105.033	116.439	475	2862.535	0.045	0.141	-0.009	2862.526	12.033	979118.332	-30.645	35.933	-13.029	-7.741
225280	22	5280	11/09/2006	254	15:10:29	-27 42 23.05657	135 36 00.82871	125.472	559175.946	6935175.884	117.911	475	2861.911	0.065	0.141	-0.009	2861.902	12.657	979117.708	-31.221	36.387	-13.194	-8.028
225290	22	5290	11/09/2006	254	15:14:36	-27 42 20.59560	135 36 03.40143	131.257	559246.772	6935251.266	123.693	475	2860.28	0.048	0.14	-0.009	2860.271	14.288	979116.077	-32.801	38.172	-13.841	-8.471
225300	22	5300	11/09/2006	254	15:18:57	-27 42 18.20861	135 36 05.92259	141.357	559316.177	6935324.378	133.792	475	2857.585	0.071	0.138	-0.009	2857.576	16.983	979113.382	-35.447	41.288	-14.971	-9.13
20804640	2080	4640	11/09/2006	254	10:57:19	-27 50 11.95728	135 28 16.39626	86.308	546401.63	6920802.898	79.303	475	2865.73	0.041	0.01	-0.004	2865.726	8.833	979121.532	-37.094	24.473	-8.874	-21.495
20804720	2080	4720	11/09/2006	254	11:05:50	-27 50 11.93999	135 28 45.44902	85.623	547196.324	6920800.352	78.59	475	2867.197	0.047	0.018	-0.004	2867.193	7.366	979122.999	-35.626	24.253	-8.794	-20.168
20804800	2080	4800	11/09/2006	254	11:12:21	-27 50 11.90149	135 29 14.52298	84.827	547991.602	6920798.404	77.766	475	2868.813	0.043	0.024	-0.004	2868.809	5.75	979124.615	-34.009	23.999	-8.702	-18.713
20804880	2080	4880	11/09/2006	254	11:19:10	-27 50 11.76292	135 29 43.91857	84.388	548795.69	6920799.447	77.299	475	2870.415	0.043	0.03	-0.004	2870.411	4.148	979126.217	-32.405	23.854	-8.65	-17.2
20804960	2080	4960	11/09/2006	254	11:29:27	-27 50 11.51865	135 30 12.95558	83.009	549589.984	6920803.729	75.892	475	2872.418	0.044	0.04	-0.005	2872.413	2.146	979128.219	-30.397	23.42	-8.492	-15.469
20805040	2080	5040	11/09/2006	254	11:36:13	-27 50 11.72214	135 30 42.52293	83.107	550398.73	6920794.121	75.961	475	2873.919	0.045	0.046	-0.005	2873.914	0.645	979129.72	-28.901	23.442	-8.5	-13.959
20805120	2080	5120	11/09/2006	254	11:42:24	-27 50 11.74303	135 31 12.15262	83.085	551209.203	6920790.071	75.911	475	2875.062	0.067	0.052	-0.005	2875.057	-0.498	979130.863	-27.758	23.426	-8.494	-12.826
20805200	2080	5200	11/09/2006	254	11:51:16	-27 50 11.20642	135 31 41.08983	82.455	552000.81	6920803.202	75.253	475	2876.199	0.036	0.06	-0.005	2876.194	-1.635	979132	-26.61	23.223	-8.421	-11.808
20805280	2080	5280	11/09/2006	254	11:58:07	-27 50 11.20510	135 32 09.96323	81.16	552790.602	6920799.818	73.93	475	2877.339	0.034	0.066	-0.005	2877.334	-2.775	979133.14	-25.47	22.815	-8.273	-10.928
20805360	2080	5360	11/09/2006	254	12:04:44	-27 50 11.54897	135 32 39.35535	81.697	553594.536	6920785.697	74.439	475	2878.119	0.041	0.072	-0.005	2878.114	-3.555	979133.92	-24.697	22.972	-8.33	-10.055
20805440	2080	5440	11/09/2006	254	12:19:17	-27 50 11.20119	135 33 08.62448	81.093	554395.201	6920792.82	73.808	475	2878.948	0.042	0.084	-0.006	2878.942	-4.383	979134.748	-23.862	22.777	-8.259	-9.344
20805520	2080	5520	11/09/2006	254	12:24:53	-27 50 10.80504	135 33 38.33945	90.354	555208.07	6920801.324	83.041	475	2877.002	0.047	0.089	-0.006	2876.996	-2.437	979132.802	-25.8	25.626	-9.292	-9.465
20805600	2080	5600	11/09/2006	254	12:33:30	-27 50 10.89889	135 34 07.10257	88.567	555994.835	6920794.815	81.226	475	2877.676	0.04	0.095	-0.006	2877.67	-3.111	979133.476	-25.128	25.066	-9.089	-9.151
20805680	2080	5680	11/09/2006	254	12:38:25	-27 50 10.63817	135 34 36.65883	90.008	556803.347	6920799.064	82.64	475	2877.826	0.066	0.098	-0.006	2877.82	-3.261	979133.626	-24.972	25.503	-9.247	-8.717
20805760	2080	5760	11/09/2006	254	12:44:04	-27 50 10.43686	135 35 05.20722	80.199	557584.283	6920801.562	72.804	475	2880.467	0.04	0.103	-0.006	2880.461	-5.902	979136.267	-22.327	22.467	-8.147	-8.006
20805840	2080	5840	11/09/2006	254	12:50:15	-27 50 10.56665	135 35 35.10443	81.344	558402.066	6920793.643	73.92	475	2880.331	0.067	0.107	-0.006	2880.325	-5.766	979136.131	-22.466	22.812	-8.272	-7.926
20805920	2080	5920	11/09/2006	254	12:58:11	-27 50 10.39438	135 36 04.35887	85.316	559202.313	6920795.049	77.865	475	2879.463	0.04	0.112	-0.006	2879.457	-4.898	979135.263	-23.33	24.029	-8.713	-8.014
20806000	2080	6000	11/09/2006	254	13:02:55	-27 50 10.11004	135 36 33.61586	88.169	560002.648	6920799.851	80.691	475	2879.059	0.057	0.115	-0.006	2879.053	-4.494	979134.859	-23.728	24.901	-9.029	-7.856
21604640	2160	4640	11/09/2006	254	10:34:45	-27 49 45.73189	135 28 16.27757	86.214	546401.482	6921609.884	79.198	475	2865.403	0.102	-0.009	-0.003	2865.4	9.159	979121.206	-36.876	24.441	-8.862	-21.298
21604720	2160	4720	11/09/2006	254	10:25:47	-27 49 45.64284	135 28 45.86392	85.381	547210.834	6921609.49	78.337	475	2867.446	0.041	-0.017	-0.003	2867.443	7.116	979123.249	-34.832	24.175	-8.766	-19.423
21604800	2160	4800	11/09/2006	254	10:18:14	-27 49 45.86526	135 29 14.83858	84.521	548003.417	6921599.524	77.449	475	2869.398	0.047	-0.024	-0.003	2869.395	5.164	979125.201	-32.884	23.901	-8.667	-17.65
21604880	2160	4880	11/09/2006	254	10:11:16	-27 49 45.47306	135 29 43.46582	83.834	548786.572	6921608.456	76.734	475	2871.317	0.04	-0.03	-0.003	2871.314	3.245	979127.12	-30.957	23.68	-8.587	-15.863
21604960	2160	4960	11/09/2006	254	10:01:50	-27 49 45.45078	135 30 12.87250	83.957	549591.004	6921605.868	76.828	475	2872.863	0.047	-0.037	-0.003	2872.86	1.699	979128.666	-29.411	23.709	-8.597	-14.299

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
21605040	2160	5040	11/09/2006	254	9:53:09	-27 49 45.14508	135 30 43.60962	83.849	550431.867	6921611.795	76.69	475	2874.117	0.043	-0.044	-0.003	2874.114	0.445	979129.92	-28.15	23.667	-8.582	-13.065
21605120	2160	5120	11/09/2006	254	9:47:37	-27 49 45.39642	135 31 11.66133	84.499	551199.2	6921600.835	77.313	475	2875.135	0.059	-0.048	-0.002	2875.133	-0.574	979130.939	-27.136	23.859	-8.651	-11.929
21605200	2160	5200	11/09/2006	254	9:38:50	-27 49 45.21369	135 31 41.03997	82.947	552002.888	6921603.026	75.732	475	2876.705	0.043	-0.054	-0.002	2876.703	-2.144	979132.509	-25.563	23.371	-8.474	-10.666
21605280	2160	5280	11/09/2006	254	9:33:23	-27 49 45.07038	135 32 10.15893	83.554	552799.469	6921603.982	76.311	475	2877.483	0.038	-0.059	-0.002	2877.481	-2.922	979133.287	-24.782	23.55	-8.539	-9.771
21605360	2160	5360	11/09/2006	254	9:23:31	-27 49 45.01140	135 32 39.43209	85.447	553600.257	6921602.273	78.176	475	2877.85	0.06	-0.064	-0.002	2877.848	-3.289	979133.654	-24.414	24.125	-8.748	-9.036
21605440	2160	5440	11/09/2006	254	9:17:17	-27 49 44.87083	135 33 08.76018	89.495	554402.56	6921603.013	82.196	475	2877.545	0.047	-0.068	-0.002	2877.543	-2.984	979133.349	-24.716	25.366	-9.198	-8.548
21605520	2160	5520	11/09/2006	254	9:11:52	-27 49 44.95375	135 33 37.78245	87.291	555196.468	6921596.862	79.965	475	2878.257	0.057	-0.071	-0.002	2878.255	-3.696	979134.061	-24.005	24.677	-8.948	-8.276
21605600	2160	5600	11/09/2006	254	9:06:32	-27 49 44.53131	135 34 06.94894	84.903	555994.392	6921606.191	77.549	475	2878.907	0.052	-0.074	-0.002	2878.905	-4.346	979134.711	-23.347	23.932	-8.678	-8.093
21605680	2160	5680	11/09/2006	254	9:00:45	-27 49 44.79528	135 34 36.18602	82.097	556794.151	6921594.336	74.717	475	2879.749	0.04	-0.077	-0.001	2879.748	-5.189	979135.554	-22.509	23.058	-8.361	-7.812
21605760	2160	5760	11/09/2006	254	8:50:13	-27 49 44.61750	135 35 05.27327	80.666	557589.876	6921596.042	73.258	475	2880.283	0.037	-0.081	-0.001	2880.282	-5.723	979136.088	-21.971	22.607	-8.198	-7.561
21605840	2160	5840	11/09/2006	254	8:44:03	-27 49 44.44307	135 35 34.52663	82.66	558390.145	6921597.569	75.225	475	2879.818	0.036	-0.084	-0.001	2879.817	-5.258	979135.623	-22.433	23.214	-8.418	-7.636
21605920	2160	5920	11/09/2006	254	8:38:01	-27 49 44.41000	135 36 03.89744	86.75	559193.608	6921594.678	79.287	475	2878.671	0.031	-0.086	-0.001	2878.67	-4.111	979134.476	-23.579	24.468	-8.872	-7.983
21606000	2160	6000	11/09/2006	254	8:31:51	-27 49 44.20544	135 36 33.51031	90.035	560003.719	6921596.978	82.546	475	2877.764	0.034	-0.088	-0.001	2877.763	-3.204	979133.569	-24.482	25.474	-9.237	-8.245
5103	0	5103	12/09/2006	255	7:41:05	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.887	0.054	-0.078	0	2874.887	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	12/09/2006	255	7:42:51	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.885	0.037	-0.079	0.002	2874.887	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	12/09/2006	255	14:10:49	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.802	0.092	0.117	0.083	2874.885	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	12/09/2006	255	14:12:06	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.812	0.131	0.117	-0.01	2874.802	0	979130.365	-25.896	27.347	-9.916	-8.465
225300	22	5300	12/09/2006	255	8:32:21	-27 42 18.21130	135 36 05.91619	141.327	559316.001	6935324.296	133.762	475	2857.924	0.062	-0.082	0.011	2857.935	16.95	979113.415	-35.414	41.279	-14.968	-9.103
225310	22	5310	12/09/2006	255	8:36:45	-27 42 16.20027	135 36 08.70070	142.784	559392.562	6935385.804	135.217	475	2857.265	0.072	-0.081	0.012	2857.277	17.608	979112.757	-36.031	41.728	-15.131	-9.433
225320	22	5320	12/09/2006	255	8:40:24	-27 42 13.80394	135 36 11.20408	135.32	559461.483	6935459.205	127.751	475	2858.762	0.055	-0.081	0.012	2858.774	16.111	979114.254	-34.484	39.424	-14.295	-9.356
225330	22	5330	12/09/2006	255	8:44:07	-27 42 11.41404	135 36 13.70609	131.742	559530.366	6935532.408	124.171	475	2859.302	0.036	-0.08	0.013	2859.315	15.57	979114.795	-33.894	38.319	-13.895	-9.469
225340	22	5340	12/09/2006	255	8:48:25	-27 42 09.18234	135 36 16.38366	130.068	559604.033	6935600.719	122.495	475	2859.353	0.042	-0.08	0.014	2859.367	15.518	979114.847	-33.796	37.802	-13.707	-9.701
225350	22	5350	12/09/2006	255	8:52:06	-27 42 06.80583	135 36 18.99102	130.784	559675.801	6935673.495	123.209	475	2858.851	0.063	-0.079	0.015	2858.866	16.019	979114.346	-34.248	38.022	-13.787	-10.013
225360	22	5360	12/09/2006	255	8:55:51	-27 42 04.48871	135 36 21.37373	131.592	559741.408	6935744.473	124.016	475	2858.389	0.064	-0.078	0.016	2858.405	16.48	979113.885	-34.661	38.271	-13.877	-10.267
225370	22	5370	12/09/2006	255	9:00:17	-27 42 02.18668	135 36 24.09054	132.095	559816.164	6935814.942	124.516	475	2857.931	0.047	-0.077	0.017	2857.948	16.937	979113.428	-35.07	38.426	-13.933	-10.578
225380	22	5380	12/09/2006	255	9:04:00	-27 41 59.89165	135 36 26.58715	133.493	559884.888	6935885.225	125.912	475	2857.271	0.063	-0.076	0.017	2857.288	17.597	979112.768	-35.683	38.856	-14.09	-10.916
225390	22	5390	12/09/2006	255	9:07:28	-27 41 57.54669	135 36 29.19032	130.117	559956.54	6935957.029	122.535	475	2857.772	0.043	-0.075	0.018	2857.79	17.095	979113.27	-35.133	37.814	-13.712	-11.03
225400	22	5400	12/09/2006	255	9:11:00	-27 41 55.28394	135 36 31.76904	128.944	560027.51	6936026.306	121.36	475	2857.687	0.049	-0.074	0.019	2857.706	17.179	979113.186	-35.17	37.452	-13.58	-11.298
52403200	5240	3200	12/09/2006	255	13:35:26	-27 44 07.25611	135 31 53.94778	105.188	552400.965	6932000.676	97.841	475	2866.35	0.045	0.1	0.075	2866.425	8.46	979121.905	-29.176	30.194	-10.948	-9.931
52403210	5240	3210	12/09/2006	255	13:32:14	-27 44 03.96524	135 31 53.91712	105.005	552400.563	6932101.941	97.658	475	2866.226	0.037	0.098	0.075	2866.301	8.584	979121.781	-29.232	30.137	-10.928	-10.023
52403220	5240	3220	12/09/2006	255	13:28:57	-27 44 00.89575	135 31 53.83166	105.648	552398.631	6932196.401	98.3	475	2865.906	0.05	0.096	0.074	2865.98	8.905	979121.46	-29.49	30.335	-11	-10.154
52403230	5240	3230	12/09/2006	255	13:25:52	-27 43 57.55443	135 31 53.79758	105.911	552398.142	6932299.219	98.562	475	2865.699	0.052	0.094	0.073	2865.772	9.113	979121.252	-29.629	30.416	-11.029	-10.242
52403240	5240	3240	12/09/2006	255	13:22:34	-27 43 54.43545	135 31 53.79755	106.226	552398.555	6932395.192	98.877	475	2865.501	0.038	0.093	0.073	2865.574	9.311	979121.054	-29.762	30.513	-11.064	-10.313
52403250	5240	3250	12/09/2006	255	13:19:28	-27 43 51.12686	135 31 53.78801	106.578	552398.734	6932496.999	99.228	475	2865.323	0.042	0.09	0.072	2865.395	9.49	979120.875	-29.873	30.622	-11.104	-10.355
52403260	5240	3260	12/09/2006	255	13:16:13	-27 43 47.67181	135 31 53.91801	106.988	552402.752	6932603.297	99.637	475	2865.108	0.037	0.088	0.071	2865.179	9.706	979120.659	-30.018	30.748	-11.149	-10.419
52403270	5240	3270	12/09/2006	255	13:12:36	-27 43 44.68528	135 31 53.70902	108.306	552397.427	6932695.219	100.955	475	2864.632	0.048	0.086	0.071	2864.703	10.182	979120.183	-30.432	31.155	-11.297	-10.574
52403280	5240	3280	12/09/2006	255	13:09:25	-27 43 41.36633	135 31 53.78673	109.221	552399.996	6932797.335	101.869	475	2864.35	0.076	0.084	0.07	2864.42	10.465	979119.9	-30.646	31.437	-11.399	-10.609
52403290	5240	3290	12/09/2006	255	13:06:07	-27 43 38.06576	135 31 53.81496	110.124	552401.207	6932898.891	102.771	475	2864.127	0.059	0.082	0.069	2864.196	10.689	979119.676	-30.802	31.715	-11.5	-10.587
52403300	5240	3300	12/09/2006	255	13:02:38	-27 43 34.88718	135 31 53.83420	110.894	552402.156	6932996.695	103.541	475	2863.935	0.045	0.08	0.068	2864.003	10.882	979119.483	-30.93	31.953	-11.586	-10.563
52403310	5240	3310	12/09/2006	255	12:59:20	-27 43 31.59406	135 31 53.68524	111.376	552398.515	6933098.044	104.022	475	2863.75	0.057	0.077	0.068	2863.818	11.067	979119.298	-31.047	32.101	-11.64	-10.585
52403320	5240	3320	12/09/2006	255	12:56:01	-27 43 28.32783	135 31 53.71396	111.841	552399.735	6933198.544	104.486	475	2863.634	0.047	0.075	0.067	2863.701	11.184	979119.181	-31.096	32.244	-11.692	-10.544
52403330	5240	3330	12/09/2006	255	12:48:12	-27 43 25.14911	135 31 53.74246	111.017	552400.937	6933296.351	103.662	475	2863.869	0.046	0.069	0.065	2863.934	10.951	979119.414	-30.797	31.99	-11.6	-10.407
52403340	5240	3340	12/09/2006	255	12:44:16	-27 43 21.86400	135 31 53.81002	111.203	552403.224	6933397.427	103.847	475	2863.802	0.035	0.066	0.064	2863.866	11.019	979119.346	-30.798	32.047	-11.62	-10.371
52403350	5240	3350	12/09/2006	255	12:40:49	-27 43 18.57173	135 31 53.72577	111.887	552401.354	6933498.741	104.53	475	2863.59	0.043	0.064	0.064	2863.654	11.231	979119.134	-30.942	32.258	-11.697	-10.381
52403360	5240	3360	12/09/2006	255	12:37:11	-27 43 15.28144	135 31 53.65683	112.405	552399.903	6933599.993	105.047	475	2863.514	0.037	0.061	0.063	2863.514	11.371	979118.994	-31.014	32.418	-11.755	-10.351
52403370	5240	3370	12/09/2006	255	12:33:24	-27 43 11.96663	135 31 53.48296	113.343	552395.582	6933702.011	105.985	475	2863.118	0.039	0.058	0.062	2863.18	11.705	979118.66	-31.279	32.707	-11.86	-10.432
52403380	5240	3380	12/09/2006	255	12:29:23	-27 43 08.99891	135 31 53.73401	113.803	552402.851	6933793.299	106.444	475	2862.967	0.046	0.055	0.061	2863.028	11.857	979118.508	-31.37	32.849	-11.911	-10.432
52403390	5240	3390	12/09/2006	255	12:25:35	-27 43 05.65627	135 31 53.53955	115.078	552397.97	6933896.177	107.719	475	2862.535	0.046	0.053	0.06	2862.595	12.29	979118.075	-31.734	33.242	-12.054	-10.545
52403400	5240	3400	12/09/2006	255	12:21:50	-27 43 02.26302	135 31 53.62792	117.192	552400.84	6934000.578	109.832	475	2861.854	0.063	0.05	0.06	2861.914	12.971	979117.394	-32.345	33.894	-12.29	-10.741
52403410	5240	3410	12/09/2006	255	12:18:17	-27 42 59.13940	135 31 53.66120	120.471	552402.166	6934096.689	113.11	475	2860.987	0.058	0.047	0.059	2861.046	13.839	979116.526	-33.148	34.906	-12.657	-10.9
52403420	5240	3420	12/09/2006	255	12:06:31	-27 42 55.79867	135 31 53.62101	124.542	552401.509	6934199.489	117.181	475	2859.82	0.045	0.038	0.056	2859.876	15.009	979115.356	-34.249	36.162	-13.113	-11.2
52403430	5240	3430	12/09/2006	255	12:02:56	-27 42 52.55507	135 31 53.64472	128.226	552402.589	6934299.293	120.864	475	2858.788	0.055	0.035	0.056	2858.844	16.041	979114.324	-35.214	37.299	-13.525	-11.44
52403440	5240	3440	12/09/2006	255	11:59:27	-27 42 49.47546	135 31 53.63588	129.723	552402.756	6934394.055	122.36	475	2858.237	0.037	0.032	0.055	2858.292	16.593	979113.772	-35.703	37.76	-13.692	-11.634
52403450	5240	3450	12/09/2006	255	11:51:56	-27 42 45.99750	135 31 53.54357	126.879	552400.69	6934501.083	119.516	475	2858.657	0.069	0.026	0.053	2858.71	16.175	979114.19	-35.213	36.883	-13.374	-11.704
52403460	5240	3460	12/09/2006	255	11:48:30	-27 42 42.81777	135 31 53.52458	124.93	552400.592	6934598.927	117.566	475	2858.902	0.05	0.024	0.053	2858.955	15.93	979114.435	-34.902	36.281	-13.156	-11.777
52403470	5240	3470	12/09/2006	255	11:45:04	-27 42 39.60418	135 31 53.42167	126.953	552398.2	6934697.823	119.589	475	2858.209	0.048	0.02	0.052	2858.261	16.624	979113.741	-35.53	36.905	-13.382	-12.007
52403480	5240	3480	12/09/2006	255	11:41:09	-27 42 36.37378	135 31 53.47500	133.755	552400.089	6934797.217	126.39	475	2856.393	0.045	0.017	0.051	2856.444	18.441	979111.924	-37.28	39.004	-14.143	-12.419
52403490	5240	3490	12/09/2006	255	11:37:22	-27 42 32.97215	135 31 53.33606	142.849	552396.736	6934901.902	135.483	475	2853.945	0.032	0.014	0.05	2853.995	20.89	979109.475	-39.659	41.81	-15.161	-13.009
52403500	5240	3500	12/09/2006	255	11:32:51	-27 42 29.80499	135 31 53.25842	150.881	552395.03	6934999.366	143.515	475	2851.673	0.032	0.011	0.049	2851.722	23.163	979107.202	-41.867	44.289	-16.059	-13.637
52403510	5240	3510	12/09/2006	255	11:28:39	-27 42 26.78715	135 31 52.55509	156.252	552376.169	6935092.309	148.886	475	2850.184	0.052	0.008	0.048	2850.232	24.653	979105.712	-43.294	45.946	-16.66	-14.008
52403520	5240	3520	12/09/2006	255	11:21:50	-27 42 23.12158	135 31 52.38044	144.14	552371.873	6935205.12	136.773	475	2852.865	0.04	0.002	0.047	2852.912	21.973	979108.392	-40.539	42.208	-15.305	-13.635
52403530	5240	3530	12/09/2006	255	11:12:21	-27 42 20.09506	135 31 53.40973	138.7	552400.463	6935298.126	131.332	475	2853.993	0.05	-0.005	0.045	2854.038	20.847	979109.518	-39.35	40.529	-14.696	-13.517
52403540	5240	3540	12/09/2006	255	11:08:25	-27 42 16.72552	135 31 53.44726	139.431	552401.938	6935401.803	132.062	475	2853.52	0.06	-0.008	0.044	2853.564	21.321	979109.044	-39.755	40.754	-14.778	-13.778
52403550	5240	3550	12/09/2006	255	11:02:31	-27 42 13.62947	135 31 53.31081	141.56	552398.612	6935497.086	134.191	475	2852.768	0.041	-0.012	0.043	2852.811	22.074	979108.291	-40.444	41.411	-15.016	-14.048
52403560	5240	3560	12/09/2006	255	10:58:20	-27 42 11.90959	135 31 53.28816	146.471	552398.22	6935550.01	139.101	475	2851.39	0.047	-0.015	0.042	2851.432	23.453	979106.912	-41.787	42.927	-15.565	-14.426
52403570	5240	3570	12/09/2006	255	10:49:17	-27 42 07.15927	135 31 53.36566	182.047	552400.972	6935696.169	174.677	475	2842.978	0.035	-0.022	0.04	2843.018	31.867	979098.498	-50.103	53.905	-19.546	-15.744
52403580	5240	3580	12/09/2006	255	10:45:41	-27 42 03.97611	135 31 53.24979	184.12	552398.221	6935794.13	176.749	475	2842.468	0.037	-0.024	0.039	2842.507	32.378	979097.987	-50.548	54.545	-19.778	-15.782
52403590	5240	3590	12/09/2006	255	10:42:00	-27 42 00.63347	135 31 53.35647	188.612	552401.587	6935896.971	181.24	475	2841.29	0.055	-0.027	0.038	2841.328	33.557	979096.808	-51.658	55.931	-20.281	-16.008
52403600	5240	3600	12/09/2006	255	10:37:52	-27 41 57.27183	135 31 53.22772	187.956	552398.506	6936000.425	180.584	475	2841.242	0.04	-0.03	0.037	2841.279	33.606	979096.759	-51.638	55.728	-20.207	-16.117
52403620	5240	3620	12/09/2006	255	10:33:52	-27 41 50.89782	135 31 53.33733	183.922	552402.354	6936196.542	176.549	475	2841.724	0.046	-0.032	0.037	2841.761	33.124	979097.241	-51.024	54.483	-19.756	-16.297
52403640	5240	3640	12/09/2006	255	10:29:32	-27 41 44.30956	135 31 53.28731	180.959	552401.858	6936399.27	173.585	475	2842.144	0.052	-0.035	0.036	2842.18	32.705	979097.66	-50.469	53.568	-19.424	-16.325
52403660	5240	3660	12/09/2006	255	10:24:52	-27 41 37.69016	135 31 53.17889	180.391	552399.767	6936602.964	173.017	475	2841.887	0.062	-0.038	0.035	2841.922	32.963	979097.402	-50.591	53.393	-19.361	-16.558
52403680	5240	3680	12/09/2006	255	10:20:04	-27 41 31.36204	135 31 53.16622	180.909	552400.259	6936797.683	173.535	475	2841.26	0.063	-0.042	0.034	2841.294	33.591	979096.774	-51.088	53.553	-19.419	-16.954
5103	0	5103	13/09/2006	256	7:26:47	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.889	0.035	-0.059	0	2874.889	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	13/09/2006	256	7:28:07	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.886	0.03	-0.059	0.003	2874.889	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	13/09/2006	256	11:13:31	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.93	0.077	-0.025	-0.044	2874.886	0	979130.365	-25.896	27.347	-9.916	-8.465
5103	0	5103	13/09/2006	256	11:15:16	-27 48 17.74594	135 37 05.90963	96.158	560903.423	6924252.997	88.615	475	2874.937	0.115	-0.024	-0.007	2874.93	0	979130.365	-25.896	27.347	-9.916	-8.465
335000	33	5000	13/09/2006	256	8:19:02	-27 49 18.49001	135 30 16.55701	91.817	549695.205	6922435.058	84.674	475	2871.152	0.036	-0.068	-0.01	2871.142	3.744	979126.621	-30.897	26.13	-9.475	-14.242
335020	33	5020	13/09/2006	256	8:23:55	-27 49 12.66516	135 30 20.38781	90.497	549800.743	6922613.861	83.348	475	2871.568	0.042	-0.068	-0.011	2871.557	3.329	979127.036	-30.362	25.721	-9.327	-13.967
335040	33	5040	13/09/2006	256	8:27:47	-27 49 06.89066	135 30 23.96753	87.023	549899.409	6922791.143	79.869	475	2872.542	0.033	-0.069	-0.012	2872.53	2.356	979128.009	-29.269	24.648	-8.937	-13.559
335060	33	5060	13/09/2006	256	8:31:35	-27 49 02.49370	135 30 27.56745	85.626	549998.455	6922926.034	78.467	475	2873.104	0.035	-0.069	-0.012	2873.092	1.794	979128.571	-28.616	24.215	-8.78	-13.182
335080	33	5080	13/09/2006	256	8:37:40	-27 48 55.59392	135 30 31.49233	86.72	550106.713	6923137.901	79.554	475	2873.155	0.05	-0.069	-0.014	2873.141	1.745	979128.62	-28.424	24.55	-8.902	-12.776
335100	33	5100	13/09/2006	256	8:42:21	-27 48 50.10997	135 30 34.89441	86.942	550200.491	6923306.26	79.77	475	2873.38	0.04	-0.069	-0.014	2873.366	1.52	979128.845	-28.086	24.617	-8.926	-12.395
335120	33	5120	13/09/2006	256	8:46:18	-27 48 44.44178	135 30 38.60989	88.275	550302.869	6923480.252	81.098	475	2873.468	0.051	-0.069	-0.015	2873.453	1.433	979128.932	-27.882	25.027	-9.075	-11.93
335140	33	5140	13/09/2006	256	8:50:05	-27 48 38.68225	135 30 42.18387	88.355	550401.39	6923657.07	81.172	475	2873.831	0.041	-0.069	-0.016	2873.815	1.071	979129.294	-27.4	25.05	-9.083	-11.434
335160	33	5160	13/09/2006	256	8:53:50	-27 48 33.29257	135 30 45.65599	89.332	550497.079	6923822.518	82.143	475	2874.027	0.047	-0.069	-0.017	2874.01	0.876	979129.489	-27.094	25.349	-9.192	-10.936
335180	33	5180	13/09/2006	256	8:58:13	-27 48 27.52793	135 30 49.45557	90.915	550601.779	6923999.466	83.721	475	2874.069	0.058	-0.069	-0.018	2874.051	0.835	979129.53	-26.933	25.836	-9.368	-10.465
335200	33	5200	13/09/2006	256	9:01:59	-27 48 21.81148	135 30 53.09244	92.034	550702.024	6924174.948	84.834	475	2874.237	0.057	-0.068	-0.018	2874.219	0.667	979129.698	-26.647	26.18	-9.493	-9.96

Pt#	Line	Stn	Date	Day	Time	GDA94_Lat	GDA94_Long	GDA94_Ht	MGA94(ZONE53)E	MGA94(ZONE53)N	AHD_Ht	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)	Bouguer_Anom
335220	33	5220	13/09/2006	256	9:05:37	-27 48 16.23161	135 30 56.65316	94.463	550800.171	6924346.236	87.257	475	2874.057	0.046	-0.068	-0.019	2874.038	0.848	979129.517	-26.713	26.928	-9.764	-9.549
335240	33	5240	13/09/2006	256	9:09:20	-27 48 10.64985	135 31 00.26480	94.542	550899.713	6924517.575	87.33	475	2874.415	0.037	-0.068	-0.02	2874.395	0.491	979129.874	-26.24	26.95	-9.772	-9.062
335260	33	5260	13/09/2006	256	9:13:51	-27 48 05.02712	135 31 04.00482	94.666	551002.777	6924690.16	87.448	475	2874.814	0.082	-0.067	-0.021	2874.793	0.093	979130.272	-25.726	26.986	-9.785	-8.525
335280	33	5280	13/09/2006	256	9:19:15	-27 47 59.31186	135 31 07.61406	94.418	551102.277	6924865.606	87.194	475	2875.239	0.075	-0.066	-0.022	2875.217	-0.331	979130.696	-25.183	26.908	-9.757	-8.032
335300	33	5300	13/09/2006	256	9:22:35	-27 47 53.61687	135 31 11.09357	94.868	551198.227	6925040.442	87.639	475	2875.41	0.059	-0.066	-0.022	2875.388	-0.502	979130.867	-24.895	27.045	-9.807	-7.656
335320	33	5320	13/09/2006	256	9:26:15	-27 47 48.06750	135 31 14.85738	95.325	551301.941	6925210.764	88.09	475	2875.682	0.06	-0.065	-0.023	2875.659	-0.773	979131.138	-24.509	27.185	-9.857	-7.181
335340	33	5340	13/09/2006	256	9:29:54	-27 47 42.38794	135 31 18.35469	96.291	551398.382	6925385.122	89.051	475	2875.817	0.063	-0.065	-0.024	2875.793	-0.907	979131.272	-24.257	27.481	-9.965	-6.741
335360	33	5360	13/09/2006	256	9:33:59	-27 47 36.84090	135 31 22.06026	97.086	551500.507	6925555.377	89.84	475	2875.903	0.046	-0.064	-0.025	2875.878	-0.992	979131.357	-24.058	27.725	-10.053	-6.386
335380	33	5380	13/09/2006	256	9:38:13	-27 47 31.02492	135 31 25.60151	97.22	551598.174	6925733.926	89.969	475	2876.033	0.061	-0.063	-0.025	2876.008	-1.122	979131.487	-23.807	27.764	-10.068	-6.11
335400	33	5400	13/09/2006	256	9:42:03	-27 47 25.42604	135 31 29.25972	96.45	551699.016	6925905.78	89.192	475	2876.328	0.066	-0.062	-0.026	2876.302	-1.416	979131.781	-23.397	27.525	-9.981	-5.853
335420	33	5420	13/09/2006	256	9:45:54	-27 47 19.67212	135 31 32.86015	97.173	551798.299	6926082.411	89.91	475	2876.099	0.061	-0.061	-0.027	2876.072	-1.186	979131.551	-23.508	27.746	-10.061	-5.823
335440	33	5440	13/09/2006	256	9:49:20	-27 47 14.18864	135 31 36.48223	98.447	551898.143	6926250.716	91.178	475	2875.605	0.05	-0.06	-0.028	2875.577	-0.691	979131.056	-23.89	28.138	-10.203	-5.955
335460	33	5460	13/09/2006	256	9:52:49	-27 47 08.40541	135 31 40.38899	101.205	552005.819	6926428.212	93.931	475	2874.828	0.046	-0.059	-0.028	2874.8	0.086	979130.279	-24.547	28.987	-10.511	-6.071
335480	33	5480	13/09/2006	256	9:56:25	-27 47 02.89395	135 31 43.93786	104.058	552103.668	6926597.385	96.778	475	2873.921	0.043	-0.058	-0.029	2873.892	0.994	979129.371	-25.341	29.866	-10.829	-6.305
335500	33	5500	13/09/2006	256	10:00:13	-27 46 57.21967	135 31 47.40278	108.567	552199.245	6926771.578	101.282	475	2872.621	0.056	-0.057	-0.03	2872.591	2.295	979128.07	-26.525	31.256	-11.333	-6.603
335520	33	5520	13/09/2006	256	10:03:48	-27 46 51.65081	135 31 51.01296	108.562	552298.785	6926942.509	101.271	475	2872.402	0.046	-0.056	-0.03	2872.372	2.514	979127.851	-26.629	31.252	-11.332	-6.709
335540	33	5540	13/09/2006	256	10:07:38	-27 46 45.94271	135 31 54.70713	107.536	552400.645	6927117.714	100.239	475	2872.498	0.04	-0.054	-0.031	2872.467	2.419	979127.946	-26.416	30.934	-11.217	-6.699
335560	33	5560	13/09/2006	256	10:11:45	-27 46 40.24745	135 31 58.32530	105.938	552500.426	6927292.532	98.635	475	2872.783	0.102	-0.053	-0.032	2872.751	2.135	979128.23	-26.014	30.439	-11.037	-6.612
335580	33	5580	13/09/2006	256	10:15:31	-27 46 34.59789	135 32 01.93006	104.255	552599.837	6927465.945	96.947	475	2873.155	0.075	-0.052	-0.033	2873.122	1.764	979128.601	-25.526	29.918	-10.848	-6.457
335600	33	5600	13/09/2006	256	10:19:09	-27 46 29.06783	135 32 05.59414	103.03	552700.859	6927635.672	95.717	475	2873.465	0.066	-0.051	-0.033	2873.432	1.454	979128.911	-25.102	29.538	-10.711	-6.274
335620	33	5620	13/09/2006	256	10:23:16	-27 46 23.37839	135 32 09.43484	101.562	552806.738	6927810.282	94.243	475	2873.855	0.047	-0.049	-0.034	2873.821	1.065	979129.3	-24.595	29.083	-10.546	-6.057
335640	33	5640	13/09/2006	256	10:26:52	-27 46 17.81849	135 32 12.63075	100.422	552894.956	6927980.982	93.098	475	2874.107	0.046	-0.047	-0.035	2874.072	0.814	979129.551	-24.229	28.73	-10.418	-5.917
335660	33	5660	13/09/2006	256	10:30:10	-27 46 12.20724	135 32 16.38060	100.076	552998.344	6928153.195	92.746	475	2874.233	0.06	-0.046	-0.036	2874.197	0.689	979129.676	-23.988	28.621	-10.378	-5.745
335680	33	5680	13/09/2006	256	10:33:33	-27 46 06.29057	135 32 20.14074	99.591	553102.057	6928334.804	92.256	475	2874.247	0.079	-0.044	-0.036	2874.211	0.675	979129.69	-23.852	28.47	-10.323	-5.705

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
21606560	565590.239	6921603.466	103.613	-27.8286254	135.6660335	-0.4857011	0.2179289	-0.9714023	0.6817435	979138.858	979158.027	-19.169	31.975	-11.594	1.212	-7.816	4.990	-8.251	4.556	-8.685	4.121	-9.119	3.687	-9.553
21606640	566404.248	6921596.413	115.696	-27.8286489	135.6742992	-0.4857015	0.2179292	-0.9714031	0.6817443	979137.320	979158.029	-20.709	35.704	-12.946	2.049	-8.728	6.267	-9.213	5.782	-9.698	5.298	-10.183	4.813	-10.667
21606720	567199.769	6921600.602	96.583	-27.8285714	135.6823766	-0.4857002	0.2179281	-0.9714004	0.6817418	979140.485	979158.023	-17.538	29.806	-10.808	1.460	-7.286	4.982	-7.691	4.577	-8.096	4.172	-8.500	3.767	-8.905
21606800	568003.432	6921597.182	92.516	-27.8285617	135.6905371	-0.4857000	0.2179280	-0.9714001	0.6817414	979142.820	979158.022	-15.202	28.550	-10.353	2.996	-6.979	6.369	-7.367	5.981	-7.755	5.594	-8.142	5.206	-8.530
22406480	564790.273	6922395.278	116.600	-27.8215167	135.6578676	-0.4855771	0.2178264	-0.9711541	0.6815123	979132.423	979157.497	-25.074	35.983	-13.048	-2.139	-8.796	2.113	-9.285	1.624	-9.773	1.135	-10.262	0.647	-10.751
22406560	565596.513	6922400.454	108.905	-27.8214307	135.6660532	-0.4855756	0.2178252	-0.9711511	0.6815095	979135.578	979157.491	-21.913	33.608	-12.186	-0.491	-8.216	3.480	-8.672	3.024	-9.128	2.567	-9.585	2.111	-10.041
22406640	566440.452	6922408.048	127.722	-27.8213206	135.6746215	-0.4855736	0.2178236	-0.9711473	0.6815059	979133.155	979157.482	-24.327	39.415	-14.292	0.796	-9.635	5.453	-10.170	4.917	-10.706	4.382	-11.241	3.847	-11.776
22406720	567195.053	6922392.035	111.586	-27.8214275	135.6822840	-0.4855755	0.2178252	-0.9711510	0.6815094	979135.650	979157.490	-21.840	34.435	-12.486	0.109	-8.418	4.177	-8.885	3.710	-9.353	3.242	-9.821	2.774	-10.288
22406800	567989.720	6922395.101	96.678	-27.8213597	135.6903523	-0.4855743	0.2178242	-0.9711487	0.6815072	979140.187	979157.485	-17.298	29.835	-10.818	1.718	-7.293	5.243	-7.698	4.838	-8.104	4.433	-8.509	4.028	-8.914
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
13606000	559994.317	6913602.006	73.601	-27.9011167	135.6096167	-0.4869664	0.2189744	-0.9739327	0.6840985	979142.927	979163.435	-20.508	22.713	-8.236	-6.031	-5.552	-3.347	-5.861	-3.656	-6.169	-3.964	-6.478	-4.273	-6.786
13606080	560799.379	6913596.560	73.328	-27.9011294	135.6177970	-0.4869666	0.2189746	-0.9739331	0.6840989	979144.909	979163.436	-18.527	22.629	-8.205	-4.104	-5.532	-1.430	-5.839	-1.737	-6.146	-2.045	-6.454	-2.352	-6.761
13606160	561587.913	6913600.190	72.329	-27.9010605	135.6258089	-0.4869654	0.2189736	-0.9739307	0.6840967	979145.083	979163.431	-18.348	22.321	-8.094	-4.121	-5.456	-1.484	-5.759	-1.787	-6.063	-2.090	-6.366	-2.393	-6.669
13606240	562399.629	6913597.276	71.171	-27.9010491	135.6340567	-0.4869652	0.2189735	-0.9739303	0.6840963	979145.198	979163.430	-18.232	21.963	-7.964	-4.233	-5.369	-1.638	-5.667	-1.936	-5.966	-2.235	-6.264	-2.533	-6.562
13606320	563198.079	6913597.689	70.870	-27.9010078	135.6421695	-0.4869645	0.2189729	-0.9739289	0.6840950	979146.728	979163.427	-16.699	21.870	-7.930	-2.759	-5.346	-0.175	-5.643	-0.472	-5.940	-0.769	-6.237	-1.066	-6.534
13606400	564000.357	6913596.145	69.650	-27.9009835	135.6503213	-0.4869640	0.2189725	-0.9739281	0.6840942	979147.920	979163.426	-15.506	21.494	-7.794	-1.805	-5.254	0.734	-5.546	0.442	-5.838	0.150	-6.130	-0.141	-6.422
13606480	564789.356	6913595.065	68.662	-27.9009552	135.6583381	-0.4869635	0.2189721	-0.9739271	0.6840933	979149.065	979163.423	-14.358	21.189	-7.683	-0.853	-5.180	1.651	-5.467	1.363	-5.755	1.075	-6.043	0.788	-6.331
13606560	565593.301	6913598.445	67.961	-27.9008854	135.6665065	-0.4869623	0.2189711	-0.9739246	0.6840910	979151.081	979163.418	-12.337	20.973	-7.605	1.031	-5.127	3.509	-5.412	3.224	-5.696	2.939	-5.981	2.654	-6.266
13606640	566393.584	6913598.790	67.815	-27.9008428	135.6746379	-0.4869616	0.2189705	-0.9739231	0.6840896	979154.371	979163.415	-9.044	20.928	-7.588	4.295	-5.116	6.768	-5.400	6.484	-5.684	6.199	-5.968	5.915	-6.253
13606720	567191.759	6913599.560	68.820	-27.9007959	135.6827477	-0.4869608	0.2189698	-0.9739215	0.6840881	979158.335	979163.411	-5.076	21.238	-7.701	8.460	-5.192	10.970	-5.480	10.681	-5.768	10.393	-6.057	10.104	-6.345
13606800	567999.037	6913598.353	68.638	-27.9007659	135.6909502	-0.4869602	0.2189694	-0.9739205	0.6840871	979161.374	979163.409	-2.035	21.182	-7.681	11.466	-5.178	13.969	-5.466	13.681	-5.753	13.393	-6.041	13.106	-6.329
14406000	560001.986	6914399.692	72.634	-27.8939157	135.6096542	-0.4868407	0.2188705	-0.9736813	0.6838648	979141.709	979162.898	-21.189	22.415	-8.128	-6.902	-5.479	-4.253	-5.784	-4.558	-6.088	-4.862	-6.393	-5.167	-6.697
14406080	560802.340	6914399.738	74.480	-27.8938791	135.6177859	-0.4868400	0.2188700	-0.9736801	0.6838636	979143.051	979162.895	-19.844	22.985	-8.334	-5.194	-5.619	-2.478	-5.931	-2.790	-6.243	-3.102	-6.555	-3.415	-6.867
14406160	561600.763	6914400.172	72.902	-27.8938386	135.6258979	-0.4868393	0.2188694	-0.9736786	0.6838623	979143.740	979162.892	-19.152	22.498	-8.158	-4.812	-5.500	-2.154	-5.805	-2.460	-6.111	-2.765	-6.416	-3.071	-6.722
14406240	562398.580	6914399.774	69.498	-27.8938051	135.6340038	-0.4868387	0.2188689	-0.9736775	0.6838612	979145.143	979162.890	-17.747	21.447	-7.777	-4.076	-5.243	-1.542	-5.534	-1.833	-5.825	-2.125	-6.117	-2.416	-6.408
14406320	563198.041	6914401.310	68.959	-27.8937536	135.6421263	-0.4868378	0.2188681	-0.9736757	0.6838595	979146.589	979162.886	-16.297	21.281	-7.716	-2.732	-5.202	-0.218	-5.491	-0.507	-5.780	-0.796	-6.069	-1.085	-6.358
14406400	563997.184	6914402.036	68.021	-27.8937090	135.6502455	-0.4868371	0.2188675	-0.9736741	0.6838581	979147.951	979162.882	-14.931	20.991	-7.612	-1.552	-5.131	0.929	-5.416	0.644	-5.702	0.358	-5.987	0.073	-6.272
14406480	564799.044	6914399.860	67.499	-27.8936900	135.6583925	-0.4868367	0.2188672	-0.9736735	0.6838575	979149.087	979162.881	-13.794	20.830	-7.553	-0.517	-5.092	1.944	-5.375	1.661	-5.658	1.379	-5.941	1.096	-6.224
14406560	565596.253	6914401.121	67.284	-27.8936397	135.6664921	-0.4868359	0.2188665	-0.9736717	0.6838558	979151.344	979162.877	-11.533	20.764	-7.529	1.702	-5.076	4.155	-5.358	3.873	-5.640	3.591	-5.922	3.309	-6.204
14406640	566400.375	6914398.564	67.078	-27.8936230	135.6746621	-0.4868356	0.2188663	-0.9736711	0.6838553	979154.931	979162.876	-7.945	20.700	-7.506	5.249	-5.060	7.695	-5.341	7.414	-5.622	7.133	-5.904	6.852	-6.185
14406720	567197.605	6914399.967	66.844	-27.8935705	135.6827618	-0.4868346	0.2188655	-0.9736693	0.6838536	979160.073	979162.872	-2.799	20.628	-7.480	10.349	-5.043	12.786	-5.323	12.506	-5.603	12.226	-5.883	11.946	-6.163
14406800	567996.203	6914397.515	67.046	-27.8935522	135.6908756	-0.4868343	0.2188652	-0.9736687	0.6838530	979161.323	979162.871	-1.548	20.690	-7.502	11.640	-5.058	14.085	-5.339	13.804	-5.620	13.523	-5.901	13.242	-6.182
21606560	565590.330	6921603.489	103.630	-27.8286252	135.6660344	-0.4857011	0.2179289	-0.9714023	0.6817435	979138.879	979158.027	-19.148	31.980	-11.596	1.236	-7.818	5.015	-8.252	4.580	-8.686	4.146	-9.121	3.712	-9.555
22406000	560001.203	6922396.420	83.356	-27.8217295	135.6092426	-0.4855808	0.2178295	-0.9711616	0.6815192	979132.984	979157.513	-24.529	25.724	-9.328	-8.133	-6.288	-5.093	-6.638	-5.443	-6.987	-5.792	-7.336	-6.141	-7.686
22406080	560797.502	6922400.512	87.997	-27.8216566	135.6173275	-0.4855795	0.2178285	-0.9711590	0.6815169	979132.053	979157.507	-25.454	27.156	-9.847	-8.145	-6.638	-4.937	-7.007	-5.306	-7.376	-5.674	-7.745	-6.043	-8.113
22406160	561599.427	6922405.187	94.022	-27.8215778	135.6254695	-0.4855781	0.2178273	-0.9711563	0.6815143	979130.885	979157.502	-26.617	29.015	-10.521	-8.122	-7.093	-4.694	-7.487	-5.088	-7.881	-5.482	-8.275	-5.876	-8.669
22406240	562395.916	6922403.422	99.092	-27.8215569	135.6335566	-0.4855778	0.2178270	-0.9711555	0.6815136	979130.807	979157.500	-26.693	30.580	-11.088	-7.202	-7.475	-3.588	-7.891	-4.004	-8.306	-4.419	-8.721	-4.834	-9.136
22406320	563206.271	6922392.202	105.175	-27.8216202	135.6417849	-0.4855789	0.2178279	-0.9711577	0.6815157	979131.399	979157.505	-26.106	32.457	-11.769	-5.418	-7.934	-1.583	-8.375	-2.024	-8.816	-2.464	-9.257	-2.905	-9.697
22406400	564000.642	6922400.937	111.263	-27.8215036	135.6498499	-0.4855768	0.2178262	-0.9711537	0.6815119	979132.028	979157.496	-25.468	34.336	-12.450	-3.583	-8.393	0.474	-8.860	0.008	-9.326	-0.458	-9.792	-0.925	-10.259
22406480	564790.078	6922395.066	116.580	-27.8215186	135.6578656	-0.4855771	0.2178265	-0.9711542	0.6815124	979132.431	979157.497	-25.066	35.977	-13.045	-2.135	-8.795	2.116	-9.283	1.627	-9.772	1.139	-10.260	0.650	-10.749
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
21606000	560003.064	6921596.915	82.526	-27.8289466	135.6093018	-0.4857067	0.2179335	-0.9714135	0.6817540	979133.566	979158.051	-24.485	25.468	-9.235	-8.252	-6.226	-5.243	-6.571	-5.589	-6.917	-5.935	-7.263	-6.280	-7.609
21606080	560798.349	6921606.394	87.405	-27.8288251	135.6173766	-0.4857046	0.2179318	-0.9714093	0.6817500	979132.886	979158.042	-25.156	26.973	-9.781	-7.963	-6.594	-4.776	-6.960	-5.143	-7.326	-5.509	-7.693	-5.875	-8.059
21606160	561609.558	6921523.011	95.789	-27.8295407	135.6256180	-0.4857171	0.2179421	-0.9714342	0.6817733	979131.938	979158.095	-26.157	29.560	-10.719	-7.315	-7.226	-3.823	-7.628	-4.224	-8.029	-4.626	-8.430	-5.027	-8.832
21606240	562411.040	6921575.943	105.682	-27.8290258	135.6337535	-0.4857081	0.2179346	-0.9714163	0.6817565	979131.365	979158.057	-26.692	32.613	-11.826	-5.904	-7.972	-2.051	-8.415	-2.494	-8.858	-2.937	-9.301	-3.379	-9.744
21606320	563198.537	6921605.032	112.775	-27.8287263	135.6417482	-0.4857029	0.2179303	-0.9714058	0.6817468	979131.788	979158.034	-26.246	34.802	-12.619	-4.064	-8.508	0.048	-8.980	-0.424	-9.453	-0.897	-9.925	-1.369	-10.398
21606400	563995.405	6921606.855	121.100	-27.8286720	135.6498395	-0.4857020	0.2179295	-0.9714039	0.6817450	979131.879	979158.030	-26.151	37.371	-13.551	-2.331	-9.136	2.085	-9.643	1.577	-10.151	1.070	-10.658	0.562	-11.166
21606480	564802.357	6921607.839	118.782	-27.8286243	135.6580351	-0.4857011	0.2179289	-0.9714022	0.6817435	979133.764	979158.027	-24.263	36.656	-13.292	-0.898	-8.961	3.433	-9.458	2.935	-9.956	2.437	-10.454	1.939	-10.952
21606560	565590.545	6921603.419	103.595	-27.8286258	135.6660366	-0.4857011	0.2179289	-0.9714023	0.6817435	979138.830	979158.027	-19.197	31.969	-11.592	1.180	-7.815	4.958	-8.249	4.523	-8.683	4.089	-9.117	3.655	-9.552
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
12006000	559997.160	6911996.185	77.246	-27.9156122	135.6097268	-0.4872193	0.2191837	-0.9744387	0.6845689	979145.810	979164.518	-18.708	23.838	-8.644	-3.514	-5.827	-0.697	-6.151	-1.021	-6.475	-1.345	-6.798	-1.668	-7.122
12006080	560786.109	6911997.539	74.813	-27.9155642	135.6177442	-0.4872185	0.2191830	-0.9744370	0.6845673	979147.764	979164.515	-16.751	23.087	-8.372	-2.035	-5.644	0.693	-5.957	0.380	-6.271	0.066	-6.584	-0.248	-6.898
12006160	561600.370	6912000.329	75.554	-27.9155017	135.6260186	-0.4872174	0.2191821	-0.9744348	0.6845653	979147.141	979164.510	-17.369	23.316	-8.454	-2.507	-5.700	0.247	-6.016	-0.069	-6.333	-0.386	-6.650	-0.702	-6.966
12006240	562401.383	6912000.800	77.818	-27.9154602	135.6341585	-0.4872167	0.2191815	-0.9744334	0.6845639	979145.157	979164.507	-19.350	24.015	-8.708	-4.043	-5.870	-1.206	-6.197	-1.532	-6.523	-1.858	-6.849	-2.184	-7.175
12006320	563195.464	6911998.458	76.520	-27.9154440	135.6422282	-0.4872164	0.2191813	-0.9744328	0.6845634	979146.299	979164.506	-18.207	23.614	-8.563	-3.155	-5.773	-0.365	-6.093	-0.686	-6.414	-1.006	-6.735	-1.327	-7.055
12006400	564003.243	6912002.116	75.187	-27.9153724	135.6504366	-0.4872152	0.2191803	-0.9744303	0.6845611	979147.679	979164.500	-16.821	23.203	-8.413	-2.032	-5.672	0.710	-5.987	0.394	-6.302	0.079	-6.617	-0.236	-6.932
12006480	564800.952	6911998.127	75.591	-27.9153699	135.6585432	-0.4872151	0.2191802	-0.9744302	0.6845610	979148.192	979164.500	-16.308	23.327	-8.459	-1.439	-5.702	1.317	-6.019	1.000	-6.336	0.683	-6.653	0.367	-6.970
12006560	565598.061	6912000.803	73.812	-27.9153068	135.6666433	-0.4872140	0.2191793	-0.9744280	0.6845590	979149.326	979164.495	-15.169	22.778	-8.260	-0.650	-5.568	2.041	-5.878	1.732	-6.187	1.422	-6.496	1.113	-6.806
12006640	566397.486	6912000.100	73.292	-27.9152736	135.6747670	-0.4872134	0.2191788	-0.9744269	0.6845579	979151.276	979164.493	-13.217	22.618	-8.201	1.200	-5.529	3.872	-5.836	3.565	-6.143	3.258	-6.451	2.951	-6.758
12006720	567196.620	6912002.914	73.387	-27.9152082	135.6828876	-0.4872123	0.2191779	-0.9744246	0.6845558	979154.445	979164.488	-10.043	22.647	-8.212	4.392	-5.536	7.068	-5.844	6.761	-6.151	6.453	-6.459	6.145	-6.766
12006800	567997.466	6911997.393	76.805	-27.9152175	135.6910261	-0.4872125	0.2191780	-0.9744249	0.6845561	979156.979	979164.489	-7.510	23.702	-8.594	7.598	-5.794	10.398	-6.116	10.077	-6.438	9.755	-6.760	9.433	-7.082
12806000	560005.171	6912799.185	75.745	-27.9083632	135.6097676	-0.4870928	0.2190790	-0.9741857	0.6843337	979144.617	979163.977	-19.360	23.375	-8.476	-4.461	-5.714	-1.699	-6.031	-2.016	-6.349	-2.334	-6.666	-2.651	-6.984
12806080	560798.397	6912800.647	77.207	-27.9083141	135.6178278	-0.4870920	0.2190783	-0.9741839	0.6843321	979146.282	979163.973	-17.691	23.826	-8.639	-2.504	-5.824	0.311	-6.148	-0.013	-6.471	-0.336	-6.795	-0.660	-7.119
12806160	561603.810	6912803.917	77.478	-27.9082476	135.6260118	-0.4870908	0.2190774	-0.9741816	0.6843299	979144.632	979163.968	-19.336	23.910	-8.670	-4.096	-5.845	-1.271	-6.169	-1.596	-6.494	-1.920	-6.819	-2.245	-7.144
12806240	562399.427	6912803.874	73.431	-27.9082111	135.6340964	-0.4870902	0.2190769	-0.9741803	0.6843287	979145.100	979163.965	-18.865	22.661	-8.217	-4.421	-5.539	-1.744	-5.847	-2.052	-6.155	-2.359	-6.463	-2.667	-6.770
12806320	563197.107	6912796.212	72.949	-27.9082427	135.6422023	-0.4870907	0.2190773	-0.9741814	0.6843298	979146.884	979163.968	-17.084	22.512	-8.163	-2.735	-5.503	-0.075	-5.809	-0.380	-6.115	-0.686	-6.420	-0.992	-6.726
12806400	564002.141	6912800.820	72.483	-27.9081627	135.6503823	-0.4870893	0.2190762	-0.9741787	0.6843272	979148.076	979163.962	-15.886	22.368	-8.111	-1.628	-5.468	1.015	-5.772	0.711	-6.076	0.407	-6.379	0.103	-6.683
12806480	564799.631	6912802.574	72.477	-27.9081084	135.6584858	-0.4870884	0.2190754	-0.9741768	0.6843254	979148.601	979163.958	-15.357	22.366	-8.110	-1.100	-5.468	1.542	-5.771	1.239	-6.075	0.935	-6.379	0.631	-6.683
12806560	565599.944	6912803.384	75.053	-27.9080620	135.6666180	-0.4870876	0.2190747	-0.9741751	0.6843239	979149.191	979163.954	-14.763	23.161	-8.398	0.000	-5.662	2.736	-5.976	2.422	-6.291	2.107	-6.605	1.793	-6.920
12806640	566396.753	6912799.503	74.321	-27.9080576	135.6747148	-0.4870875	0.2190746	-0.9741750	0.6843238	979151.790	979163.954	-12.164	22.935	-8.316	2.455	-5.607	5.165	-5.918	4.854	-6.230	4.542	-6.541	4.231	-6.853
12806720	567192.422	6912797.087	70.909	-27.9080396	135.6828000	-0.4870872	0.2190744	-0.9741744	0.6843232	979156.644	979163.952	-7.308	21.883	-7.935	6.639	-5.349	9.225	-5.646	8.928	-5.944	8.630	-6.241	8.333	-6.538
12806800	567991.725	6912799.436	70.545	-27.9079779	135.6909218	-0.4870861	0.2190735	-0.9741722	0.6843212	979159.435	979163.948	-4.513	21.770	-7.894	9.363	-5.322	11.936	-5.617	11.640	-5.913	11.344	-6.209	11.049	-6.504
13606000	559994.278	6913602.121	73.621	-27.9011157	135.6096163	-0.4869663	0.2189744	-0.9739327	0.6840985	979142.891	979163.435	-20.544	22.719	-8.238	-6.063	-5.554	-3.379	-5.862	-3.687	-6.171	-3.996	-6.479	-4.304	-6.788
20806000	560002.862	6920799.968	80.693	-27.8361406	135.6093399	-0.4858323	0.2180372	-0.9716646	0.6819879	979134.844	979158.587	-23.743	24.902	-9.030	-7.871	-6.087	-4.929	-6.426	-5.267	-6.764	-5.605	-7.102	-5.943	-7.440

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
20806080	560797.322	6920805.442	87.530	-27.8360553	135.6174071	-0.4858308	0.2180360	-0.9716616	0.6819851	979133.854	979158.581	-24.727	27.012	-9.795	-7.510	-6.603	-4.318	-6.970	-4.685	-7.337	-5.052	-7.704	-5.419	-8.070
20806160	561584.371	6920789.436	91.180	-27.8361639	135.6254002	-0.4858327	0.2180375	-0.9716654	0.6819886	979133.958	979158.589	-24.631	28.138	-10.203	-6.696	-6.878	-3.371	-7.261	-3.753	-7.643	-4.135	-8.025	-4.518	-8.407
20806240	562387.179	6920811.744	100.615	-27.8359253	135.6335513	-0.4858285	0.2180341	-0.9716571	0.6819809	979133.676	979158.571	-24.895	31.050	-11.259	-5.104	-7.590	-1.435	-8.012	-1.857	-8.434	-2.279	-8.855	-2.701	-9.277
20806320	563194.012	6920805.964	113.836	-27.8359396	135.6417447	-0.4858288	0.2180343	-0.9716576	0.6819813	979132.759	979158.572	-25.813	35.130	-12.738	-3.422	-8.588	0.729	-9.065	0.252	-9.542	-0.225	-10.019	-0.702	-10.496
20806400	564000.419	6920807.606	117.041	-27.8358865	135.6499333	-0.4858279	0.2180335	-0.9716557	0.6819796	979134.272	979158.568	-24.296	36.119	-13.097	-1.274	-8.829	2.993	-9.320	2.503	-9.810	2.012	-10.301	1.522	-10.791
20806480	564795.641	6920805.172	112.650	-27.8358702	135.6580086	-0.4858276	0.2180333	-0.9716552	0.6819791	979137.541	979158.567	-21.026	34.764	-12.606	1.132	-8.498	5.240	-8.970	4.768	-9.442	4.295	-9.914	3.823	-10.387
20806560	565599.664	6920801.823	110.867	-27.8358613	135.6661733	-0.4858274	0.2180332	-0.9716549	0.6819788	979138.843	979158.566	-19.723	34.214	-12.406	2.084	-8.364	6.127	-8.828	5.662	-9.293	5.197	-9.758	4.733	-10.222
20806640	566399.541	6920800.720	95.445	-27.8358318	135.6742958	-0.4858269	0.2180327	-0.9716538	0.6819778	979142.009	979158.564	-16.555	29.454	-10.680	2.219	-7.200	5.699	-7.600	5.299	-8.000	4.899	-8.400	4.499	-8.800
20806720	567195.733	6920797.388	89.750	-27.8358221	135.6823810	-0.4858267	0.2180326	-0.9716535	0.6819775	979143.180	979158.563	-15.383	27.697	-10.043	2.270	-6.771	5.543	-7.147	5.167	-7.523	4.791	-7.899	4.414	-8.275
20806800	567996.119	6920802.031	85.902	-27.8357398	135.6905082	-0.4858253	0.2180314	-0.9716506	0.6819748	979146.391	979158.557	-12.166	26.509	-9.612	4.731	-6.480	7.863	-6.840	7.503	-7.200	7.143	-7.560	6.783	-7.920
21606800	568003.563	6921597.542	92.503	-27.8285585	135.6905384	-0.4857000	0.2179279	-0.9713999	0.6817413	979142.805	979158.022	-15.217	28.546	-10.351	2.978	-6.978	6.351	-7.366	5.964	-7.754	5.576	-8.141	5.188	-8.529
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
18406000	560003.379	6918405.345	70.215	-27.8577568	135.6094660	-0.4862096	0.2183488	-0.9724192	0.6826905	979138.859	979160.199	-21.340	21.668	-7.857	-7.529	-5.297	-4.969	-5.591	-5.263	-5.885	-5.557	-6.180	-5.852	-6.474
18406080	560799.161	6918394.852	73.345	-27.8578156	135.6175491	-0.4862106	0.2183497	-0.9724212	0.6826924	979139.132	979160.204	-21.072	22.634	-8.207	-6.645	-5.533	-3.970	-5.840	-4.278	-6.148	-4.585	-6.455	-4.893	-6.763
18406160	561595.130	6918395.286	76.111	-27.8577752	135.6256335	-0.4862099	0.2183491	-0.9724198	0.6826911	979139.431	979160.201	-20.770	23.488	-8.517	-5.799	-5.742	-3.023	-6.061	-3.342	-6.380	-3.661	-6.699	-3.980	-7.018
18406240	562410.005	6918405.147	93.122	-27.8576485	135.6339094	-0.4862077	0.2183473	-0.9724154	0.6826869	979136.648	979160.191	-23.543	28.737	-10.420	-5.226	-7.025	-1.831	-7.415	-2.221	-7.805	-2.611	-8.196	-3.001	-8.586
18406320	563199.987	6918394.625	98.599	-27.8577063	135.6419335	-0.4862087	0.2183481	-0.9724174	0.6826888	979136.640	979160.195	-23.555	30.428	-11.033	-4.161	-7.438	-0.566	-7.851	-0.979	-8.265	-1.392	-8.678	-1.806	-9.091
18406400	563991.430	6918398.111	93.119	-27.8576372	135.6499717	-0.4862075	0.2183471	-0.9724150	0.6826866	979139.352	979160.190	-20.838	28.737	-10.420	-2.522	-7.025	0.873	-7.415	0.483	-7.805	0.093	-8.195	-0.297	-8.586
18406480	564802.315	6918399.184	91.083	-27.8575885	135.6582075	-0.4862066	0.2183464	-0.9724133	0.6826850	979142.386	979160.187	-17.801	28.108	-10.192	0.115	-6.871	3.436	-7.253	3.055	-7.635	2.673	-8.016	2.291	-8.398
18406560	565595.012	6918410.158	92.736	-27.8574508	135.6662580	-0.4862042	0.2183444	-0.9724085	0.6826805	979144.866	979160.176	-15.310	28.618	-10.377	2.931	-6.996	6.312	-7.384	5.923	-7.773	5.535	-8.162	5.146	-8.550
18406640	566402.219	6918400.874	78.245	-27.8574947	135.6744570	-0.4862050	0.2183450	-0.9724100	0.6826819	979148.647	979160.180	-11.533	24.146	-8.756	3.858	-5.903	6.711	-6.231	6.383	-6.558	6.055	-6.886	5.727	-7.214
18406720	567194.965	6918399.577	80.822	-27.8574669	135.6825086	-0.4862045	0.2183446	-0.9724090	0.6826810	979151.226	979160.178	-8.952	24.942	-9.044	6.946	-6.097	9.893	-6.436	9.554	-6.775	9.216	-7.113	8.877	-7.452
18406800	567999.439	6918400.272	77.313	-27.8574199	135.6906793	-0.4862037	0.2183440	-0.9724074	0.6826795	979154.965	979160.174	-5.209	23.859	-8.651	9.998	-5.832	12.817	-6.156	12.493	-6.480	12.169	-6.804	11.845	-7.128
19206000	560002.600	6919198.367	72.624	-27.8505983	135.6094180	-0.4860846	0.2182456	-0.9721693	0.6824578	979137.788	979159.665	-21.877	22.412	-8.127	-7.592	-5.479	-4.944	-5.783	-5.248	-6.087	-5.553	-6.392	-5.857	-6.696
19206080	560799.066	6919203.307	80.485	-27.8505177	135.6175067	-0.4860832	0.2182444	-0.9721665	0.6824552	979137.082	979159.659	-22.577	24.838	-9.006	-6.746	-6.072	-3.811	-6.409	-4.149	-6.746	-4.486	-7.084	-4.823	-7.421
19206160	561593.774	6919202.168	80.771	-27.8504916	135.6255779	-0.4860828	0.2182441	-0.9721656	0.6824544	979138.090	979159.657	-21.567	24.926	-9.038	-5.680	-6.093	-2.735	-6.432	-3.073	-6.770	-3.412	-7.109	-3.750	-7.447
19206240	562398.857	6919196.388	91.137	-27.8505065	135.6337546	-0.4860830	0.2182443	-0.9721661	0.6824549	979136.962	979159.658	-22.696	28.125	-10.198	-4.770	-6.875	-1.447	-7.257	-1.829	-7.639	-2.211	-8.021	-2.593	-8.403
19206320	563202.600	6919199.287	108.194	-27.8504426	135.6419173	-0.4860819	0.2182434	-0.9721638	0.6824528	979134.758	979159.654	-24.896	33.389	-12.107	-3.614	-8.162	0.331	-8.615	-0.122	-9.069	-0.576	-9.522	-1.029	-9.976
19206400	563999.015	6919196.320	110.080	-27.8504315	135.6500058	-0.4860817	0.2182432	-0.9721635	0.6824524	979136.295	979159.653	-23.358	33.971	-12.318	-1.705	-8.304	2.309	-8.766	1.847	-9.227	1.386	-9.688	0.925	-10.150
19206480	564798.218	6919199.621	97.273	-27.8503632	135.6581223	-0.4860805	0.2182422	-0.9721611	0.6824502	979141.134	979159.648	-18.514	30.018	-10.885	0.620	-7.338	4.167	-7.746	3.759	-8.153	3.351	-8.561	2.944	-8.969
19206560	565602.552	6919205.738	99.066	-27.8502688	135.6662907	-0.4860789	0.2182409	-0.9721578	0.6824471	979143.240	979159.641	-16.401	30.572	-11.085	3.086	-7.473	6.698	-7.889	6.283	-8.304	5.867	-8.719	5.452	-9.134
19206640	566395.628	6919197.427	83.374	-27.8503047	135.6743456	-0.4860795	0.2182414	-0.9721590	0.6824483	979146.526	979159.643	-13.117	25.729	-9.330	3.282	-6.290	6.322	-6.639	5.973	-6.988	5.623	-7.338	5.274	-7.687
19206720	567195.469	6919197.242	83.565	-27.8502664	135.6824687	-0.4860788	0.2182408	-0.9721577	0.6824471	979148.578	979159.641	-11.063	25.788	-9.351	5.375	-6.304	8.422	-6.654	8.071	-7.004	7.721	-7.355	7.371	-7.705
19206800	567994.229	6919201.422	79.024	-27.8501883	135.6905805	-0.4860775	0.2182397	-0.9721550	0.6824445	979152.260	979159.635	-7.375	24.387	-8.843	8.169	-5.961	11.051	-6.293	10.720	-6.624	10.388	-6.955	10.057	-7.286
20006000	559999.098	6920000.628	77.623	-27.8433564	135.6093420	-0.4859582	0.2181412	-0.9719165	0.6822225	979136.163	979159.125	-22.962	23.954	-8.686	-7.694	-5.856	-4.863	-6.181	-5.189	-6.506	-5.514	-6.832	-5.839	-7.157
20006080	560796.562	6920005.287	80.565	-27.8432784	135.6174403	-0.4859569	0.2181401	-0.9719138	0.6822199	979136.428	979159.119	-22.691	24.862	-9.015	-6.844	-6.078	-3.907	-6.415	-4.244	-6.753	-4.582	-7.091	-4.920	-7.428
20006160	561598.067	6920001.864	87.543	-27.8432726	135.6255800	-0.4859568	0.2181400	-0.9719136	0.6822197	979136.058	979159.119	-23.061	27.016	-9.796	-5.841	-6.604	-2.649	-6.971	-3.016	-7.338	-3.383	-7.705	-3.750	-8.072
20006240	562398.595	6920001.258	96.107	-27.8432410	135.6337097	-0.4859562	0.2181395	-0.9719125	0.6822187	979135.530	979159.117	-23.587	29.659	-10.754	-4.682	-7.250	-1.178	-7.653	-1.581	-8.056	-1.984	-8.458	-2.386	-8.861
20006320	563200.059	6919997.104	112.915	-27.8432409	135.6418491	-0.4859562	0.2181395	-0.9719125	0.6822187	979133.639	979159.117	-25.478	34.846	-12.635	-3.267	-8.518	0.850	-8.991	0.377	-9.465	-0.097	-9.938	-0.570	-10.411
20006400	563998.927	6919995.961	114.088	-27.8432132	135.6499619	-0.4859557	0.2181391	-0.9719115	0.6822178	979135.609	979159.115	-23.506	35.208	-12.766	-1.064	-8.607	3.095	-9.085	2.617	-9.563	2.139	-10.041	1.661	-10.519
20006480	564793.987	6920001.356	112.737	-27.8431263	135.6580356	-0.4859542	0.2181379	-0.9719085	0.6822150	979137.715	979159.108	-21.393	34.791	-12.615	0.782	-8.505	4.893	-8.977	4.420	-9.450	3.948	-9.922	3.476	-10.395
20006560	565599.070	6920011.055	100.194	-27.8429995	135.6662109	-0.4859520	0.2181360	-0.9719040	0.6822109	979142.159	979159.099	-16.940	30.920	-11.212	2.769	-7.558	6.422	-7.978	6.002	-8.398	5.582	-8.818	5.162	-9.238
20006640	566399.644	6919999.901	92.354	-27.8430607	135.6743415	-0.4859531	0.2181369	-0.9719062	0.6822128	979143.251	979159.103	-15.852	28.500	-10.334	2.314	-6.967	5.681	-7.354	5.294	-7.741	4.907	-8.128	4.520	-8.515
20006720	567198.970	6919995.646	86.727	-27.8430592	135.6824591	-0.4859531	0.2181369	-0.9719061	0.6822128	979145.762	979159.103	-13.341	26.764	-9.705	3.718	-6.543	6.880	-6.906	6.517	-7.269	6.153	-7.633	5.790	-7.996
20006800	567993.906	6920003.292	82.858	-27.8429500	135.6905314	-0.4859512	0.2181353	-0.9719023	0.6822092	979148.897	979159.095	-10.198	25.570	-9.272	6.100	-6.251	9.121	-6.598	8.774	-6.945	8.427	-7.292	8.080	-7.640
20806000	560002.683	6920800.129	80.681	-27.8361392	135.6093381	-0.4858323	0.2180372	-0.9716646	0.6819878	979134.856	979158.587	-23.731	24.898	-9.028	-7.861	-6.086	-4.919	-6.425	-5.257	-6.763	-5.596	-7.101	-5.934	-7.439
20806800	567996.278	6920802.101	85.901	-27.8357392	135.6905098	-0.4858253	0.2180314	-0.9716506	0.6819748	979146.419	979158.557	-12.138	26.509	-9.612	4.759	-6.480	7.891	-6.840	7.531	-7.200	7.171	-7.560	6.811	-7.920
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
16806000	560002.447	6916795.177	71.825	-27.8722918	135.6095378	-0.4864633	0.2185585	-0.9729265	0.6831627	979139.644	979161.284	-21.640	22.165	-8.037	-7.512	-5.418	-4.893	-5.719	-5.194	-6.020	-5.495	-6.321	-5.796	-6.622
16806080	560802.857	6916777.237	69.394	-27.8724175	135.6176694	-0.4864655	0.2185603	-0.9729309	0.6831667	979140.738	979161.293	-20.555	21.415	-7.765	-6.905	-5.235	-4.375	-5.526	-4.666	-5.817	-4.957	-6.107	-5.248	-6.398
16806160	561596.927	6916776.488	69.302	-27.8723879	135.6257356	-0.4864649	0.2185599	-0.9729299	0.6831658	979141.635	979161.291	-19.656	21.387	-7.755	-6.024	-5.228	-3.497	-5.518	-3.788	-5.809	-4.078	-6.099	-4.369	-6.390
16806240	562393.826	6916799.315	71.524	-27.8721449	135.6338294	-0.4864607	0.2185563	-0.9729214	0.6831579	979142.233	979161.273	-19.040	22.072	-8.004	-4.971	-5.396	-2.363	-5.695	-2.663	-5.995	-2.963	-6.295	-3.262	-6.595
16806320	563195.844	6916801.746	72.970	-27.8720853	135.6419762	-0.4864597	0.2185555	-0.9729193	0.6831559	979143.293	979161.268	-17.975	22.519	-8.165	-3.622	-5.505	-0.961	-5.811	-1.267	-6.116	-1.573	-6.422	-1.879	-6.728
16806400	564002.249	6916808.310	74.991	-27.8719877	135.6501673	-0.4864580	0.2185541	-0.9729159	0.6831528	979143.893	979161.261	-17.368	23.142	-8.391	-2.617	-5.657	0.117	-5.971	-0.197	-6.286	-0.512	-6.600	-0.826	-6.914
16806480	564844.846	6916794.055	76.633	-27.8720757	135.6587271	-0.4864595	0.2185554	-0.9729190	0.6831556	979145.628	979161.268	-15.640	23.649	-8.575	-0.566	-5.781	2.228	-6.102	1.907	-6.423	1.586	-6.745	1.265	-7.066
16806560	565596.483	6916803.054	77.767	-27.8719578	135.6663617	-0.4864574	0.2185536	-0.9729149	0.6831518	979148.620	979161.259	-12.639	23.999	-8.702	2.658	-5.867	5.494	-6.193	5.168	-6.518	4.842	-6.844	4.516	-7.170
16806640	566389.114	6916803.995	71.796	-27.8719102	135.6744131	-0.4864566	0.2185530	-0.9729132	0.6831503	979154.347	979161.255	-6.908	22.156	-8.034	7.214	-5.416	9.832	-5.717	9.531	-6.018	9.230	-6.319	8.929	-6.620
16806720	567195.984	6916794.644	69.232	-27.8719543	135.6826098	-0.4864574	0.2185536	-0.9729147	0.6831517	979157.228	979161.259	-4.031	21.365	-7.747	9.587	-5.223	12.112	-5.513	11.822	-5.803	11.531	-6.093	11.241	-6.383
16806800	568000.693	6916801.991	68.963	-27.8718472	135.6907835	-0.4864555	0.2185521	-0.9729110	0.6831482	979158.933	979161.251	-2.318	21.282	-7.717	11.248	-5.202	13.762	-5.491	13.473	-5.780	13.184	-6.070	12.895	-6.359
17606000	560002.760	6917604.329	70.534	-27.8649876	135.6095001	-0.4863358	0.2184531	-0.9726716	0.6829254	979139.243	979160.739	-21.496	21.767	-7.893	-7.622	-5.321	-5.050	-5.617	-5.345	-5.912	-5.641	-6.208	-5.937	-6.503
17606080	560791.446	6917609.591	69.987	-27.8649045	135.6175109	-0.4863343	0.2184519	-0.9726687	0.6829227	979140.126	979160.732	-20.606	21.598	-7.832	-6.840	-5.280	-4.288	-5.573	-4.581	-5.866	-4.875	-6.160	-5.168	-6.453
17606160	561594.603	6917601.717	72.039	-27.8649388	135.6256692	-0.4863349	0.2184524	-0.9726699	0.6829238	979140.556	979160.735	-20.179	22.231	-8.061	-6.009	-5.434	-3.382	-5.736	-3.684	-6.038	-3.986	-6.340	-4.288	-6.642
17606240	562397.049	6917591.705	77.298	-27.8649919	135.6338205	-0.4863359	0.2184532	-0.9726717	0.6829255	979140.414	979160.739	-20.325	23.854	-8.650	-5.120	-5.831	-2.302	-6.155	-2.626	-6.479	-2.950	-6.803	-3.274	-7.127
17606320	563204.378	6917609.486	81.172	-27.8647935	135.6420199	-0.4863324	0.2184503	-0.9726648	0.6829191	979140.610	979160.724	-20.114	25.050	-9.083	-4.148	-6.123	-1.188	-6.464	-1.528	-6.804	-1.868	-7.144	-2.209	-7.484
17606400	564005.551	6917587.442	81.578	-27.8649544	135.6501588	-0.4863352	0.2184526	-0.9726704	0.6829243	979141.828	979160.736	-18.908	25.175	-9.129	-2.862	-6.154	0.113	-6.496	-0.229	-6.838	-0.571	-7.180	-0.913	-7.522
17606480	564789.955	6917616.249	83.205	-27.8646566	135.6581247	-0.4863300	0.2184483	-0.9726600	0.6829146	979144.005	979160.714	-16.709	25.677	-9.311	-0.343	-6.277	2.691	-6.626	2.343	-6.974	1.994	-7.323	1.645	-7.672
17606560	565605.425	6917601.896	81.985	-27.8647463	135.6664084	-0.4863316	0.2184496	-0.9726631	0.6829176	979147.475	979160.721	-13.246	25.301	-9.174	2.881	-6.185	5.870	-6.528	5.527	-6.872	5.183	-7.216	4.839	-7.559
17606640	566401.108	6917590.219	76.898	-27.8648125	135.6744910	-0.4863327	0.2184506	-0.9726654	0.6829197	979151.195	979160.726	-9.531	23.731	-8.605	5.595	-5.801	8.399	-6.123	8.077	-6.446	7.755	-6.768	7.432	-7.090
17606720	567192.428	6917602.008	74.322	-27.8646665	135.6825280	-0.4863302	0.2184485	-0.9726604	0.6829150	979154.813	979160.715	-5.902	22.936	-8.317	8.717	-5.607	11.427	-5.918	11.116	-6.230	10.804	-6.541	10.493	-6.853
17606800	567997.626	6917602.810	76.199	-27.8646186	135.6907065	-0.4863293	0.2184478	-0.9726587	0.6829134	979156.581	979160.711	-4.130	23.515	-8.527	10.858	-5.748	13.637	-6.068	13.317	-6.387	12.998	-6.706	12.679	-7.026
18406800	567999.274	6918400.284	77.306	-27.8574198	135.6906776	-0.4862037	0.2183440	-0.9724074	0.6826795	979154.978	979160.174	-5.196	23.857	-8.651	10.010	-5.832	12.829	-6.156	12.505	-6.480	12.181	-6.804	11.857	-7.128
20806800	567996.173	6920802.293	85.892	-27.8357374	135.6905088	-0.4858253	0.2180314	-0.9716505	0.6819748	979146.443	979158.557	-12.114	26.506	-9.611	4.781	-6.480	7.913	-6.839	7.553	-7.199	7.193	-7.559	6.833	-7.919
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
15206000	560004.528	6915199.699	70.956	-27.8866940	135.6096396	-0.4867146	0.2187663	-0.9734293	0.6836303	979141.053	979162.359	-21.306	21.897	-7.940	-7.349	-5.353	-4.761	-5.650	-5.059	-5.948	-5.356	-6.245	-5.654	-6.542
15206080	560808.502	6915199.334	70.800	-27.8866609	135.6178075	-0.4867141	0.2187658	-0.9734281	0.6836293	979142.765	979162.356	-19.591	21.849	-7.922	-5.665	-5.341	-3.083	-5.638	-3.380	-5.934	-3.677	-6.231	-3.973	-6.528
15206160	561602.390	6915204.249	70.114	-27.8865802	135.6258727	-0.4867126	0.2187646	-0.9734253	0.6836267	979143.296	979162.350	-19.054	21.637	-7.846	-5.263	-5.289	-2.706	-5.583	-3.000	-5.877	-3.294	-6.171	-3.588	-6.465
15206240	562396.274	6915200.312	69.023	-27.8865789	135.6339383	-0.4867126	0.2187646	-0.9734252	0.6836266	979144.237	979162.350	-18.113	21.300	-7.724	-4.536	-5.207	-2.019	-5.496	-2.309	-5.786	-2.598	-6.075	-2.887	-6.364
15206320	563205.095	6915201.468	68.229	-27.8865304	135.6421553	-0.4867118	0.2187639	-0.9734235	0.6836250	979146.208	979162.346	-16.138	21.055	-7.635	-2.718	-5.147	-0.230	-5.433	-0.516	-5.719	-0.802	-6.005	-1.088	-6.291

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
15206400	564005.418	6915203.473	67.714	-27.8864742	135.6502860	-0.4867108	0.2187631	-0.9734216	0.6836232	979147.918	979162.342	-14.424	20.897	-7.577	-1.105	-5.108	1.364	-5.392	1.080	-5.676	0.797	-5.960	0.513	-6.243
15206480	564802.302	6915211.365	67.416	-27.8863645	135.6583813	-0.4867089	0.2187615	-0.9734178	0.6836196	979149.019	979162.334	-13.315	20.805	-7.544	-0.054	-5.086	2.404	-5.368	2.121	-5.651	1.839	-5.933	1.556	-6.216
15206560	565605.221	6915207.758	67.519	-27.8863579	135.6665386	-0.4867088	0.2187614	-0.9734175	0.6836194	979151.295	979162.334	-11.039	20.836	-7.555	2.242	-5.093	4.704	-5.376	4.421	-5.659	4.138	-5.942	3.855	-6.225
15206640	566410.261	6915199.156	67.014	-27.8863957	135.6747177	-0.4867094	0.2187620	-0.9734188	0.6836207	979155.492	979162.336	-6.844	20.681	-7.499	6.337	-5.055	8.781	-5.336	8.500	-5.617	8.219	-5.898	7.938	-6.179
15206720	567202.212	6915203.974	66.669	-27.8863126	135.6827631	-0.4867080	0.2187608	-0.9734159	0.6836180	979159.035	979162.330	-3.295	20.574	-7.460	9.819	-5.029	12.250	-5.309	11.970	-5.588	11.691	-5.868	11.411	-6.147
15206800	567996.119	6915203.414	66.263	-27.8862775	135.6908286	-0.4867074	0.2187603	-0.9734147	0.6836168	979160.686	979162.328	-1.642	20.449	-7.415	11.392	-4.999	13.808	-5.276	13.531	-5.554	13.253	-5.832	12.975	-6.110
16006000	560002.945	6916004.867	72.828	-27.8794258	135.6095828	-0.4865878	0.2186614	-0.9731755	0.6833943	979139.967	979161.816	-21.849	22.475	-8.149	-7.524	-5.494	-4.868	-5.799	-5.174	-6.104	-5.479	-6.410	-5.784	-6.715
16006080	560794.404	6916001.474	70.238	-27.8794207	135.6176232	-0.4865877	0.2186613	-0.9731754	0.6833942	979141.347	979161.816	-20.469	21.675	-7.860	-6.653	-5.299	-4.092	-5.593	-4.386	-5.887	-4.681	-6.182	-4.975	-6.476
16006160	561591.722	6916003.427	69.162	-27.8793665	135.6257229	-0.4865867	0.2186605	-0.9731735	0.6833924	979142.410	979161.812	-19.402	21.343	-7.739	-5.797	-5.217	-3.276	-5.507	-3.566	-5.797	-3.855	-6.087	-4.145	-6.377
16006240	562397.897	6915996.386	68.370	-27.8793927	135.6339129	-0.4865872	0.2186609	-0.9731744	0.6833933	979143.649	979161.814	-18.165	21.099	-7.651	-4.716	-5.158	-2.223	-5.444	-2.510	-5.731	-2.796	-6.017	-3.083	-6.304
16006320	563201.948	6915993.404	68.729	-27.8793818	135.6420812	-0.4865870	0.2186608	-0.9731740	0.6833929	979145.337	979161.813	-16.476	21.210	-7.691	-2.957	-5.185	-0.451	-5.473	-0.739	-5.761	-1.027	-6.049	-1.315	-6.337
16006400	564003.325	6915992.193	69.364	-27.8793546	135.6502222	-0.4865865	0.2186604	-0.9731731	0.6833920	979146.299	979161.811	-15.512	21.406	-7.762	-1.868	-5.233	0.661	-5.523	0.371	-5.814	0.080	-6.105	-0.211	-6.395
16006480	564793.391	6915998.893	69.962	-27.8792560	135.6582478	-0.4865848	0.2186589	-0.9731696	0.6833888	979147.761	979161.803	-14.042	21.590	-7.829	-0.281	-5.278	2.270	-5.571	1.977	-5.864	1.684	-6.157	1.390	-6.451
16006560	565606.779	6915995.301	71.067	-27.8792488	135.6665109	-0.4865847	0.2186588	-0.9731694	0.6833886	979150.769	979161.803	-11.034	21.931	-7.952	2.945	-5.361	5.536	-5.659	5.238	-5.957	4.941	-6.255	4.643	-6.553
16006640	566396.792	6916000.460	67.983	-27.8791632	135.6745361	-0.4865832	0.2186576	-0.9731664	0.6833858	979156.640	979161.797	-5.157	20.980	-7.607	8.216	-5.129	10.695	-5.413	10.410	-5.698	10.125	-5.983	9.840	-6.268
16006720	567205.415	6916004.067	66.576	-27.8790902	135.6827503	-0.4865819	0.2186565	-0.9731638	0.6833834	979158.420	979161.791	-3.371	20.545	-7.450	9.724	-5.022	12.152	-5.301	11.873	-5.580	11.594	-5.859	11.315	-6.138
16006800	567998.686	6915997.444	66.045	-27.8791098	135.6908092	-0.4865823	0.2186568	-0.9731645	0.6833841	979160.034	979161.793	-1.759	20.381	-7.390	11.233	-4.982	13.641	-5.259	13.364	-5.536	13.087	-5.813	12.810	-6.089
16806000	560002.266	6916795.125	71.835	-27.8722923	135.6095360	-0.4864633	0.2185585	-0.9729265	0.6831627	979139.611	979161.284	-21.673	22.168	-8.038	-7.543	-5.419	-4.924	-5.720	-5.225	-6.021	-5.526	-6.322	-5.827	-6.623
21606480	564802.948	6921607.181	118.709	-27.8286302	135.6580392	-0.4857012	0.2179289	-0.9714024	0.6817437	979133.826	979158.027	-24.201	36.634	-13.284	-0.851	-8.955	3.477	-9.453	2.980	-9.950	2.482	-10.448	1.985	-10.945
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
22406480	564789.743	6922394.786	116.590	-27.8215212	135.6578622	-0.4855771	0.2178265	-0.9711543	0.6815125	979132.451	979157.497	-25.046	35.980	-13.046	-2.113	-8.795	2.138	-9.284	1.649	-9.773	1.161	-10.261	0.672	-10.750
22406800	567989.325	6922394.564	96.689	-27.8213646	135.6903483	-0.4855744	0.2178242	-0.9711488	0.6815074	979140.165	979157.486	-17.321	29.838	-10.819	1.698	-7.294	5.224	-7.699	4.818	-8.104	4.413	-8.510	4.008	-8.915
23206000	560009.581	6923201.915	87.404	-27.8144579	135.6092871	-0.4854539	0.2177247	-0.9709077	0.6812827	979131.748	979156.971	-25.223	26.973	-9.780	-8.031	-6.594	-4.844	-6.960	-5.210	-7.326	-5.576	-7.693	-5.943	-8.059
23206080	560804.760	6923202.201	88.668	-27.8144195	135.6173602	-0.4854532	0.2177242	-0.9709064	0.6812815	979130.934	979156.968	-26.034	27.363	-9.922	-8.593	-6.689	-5.360	-7.061	-5.732	-7.432	-6.103	-7.804	-6.475	-8.175
23206160	561600.455	6923199.568	95.132	-27.8144069	135.6254388	-0.4854530	0.2177240	-0.9709060	0.6812811	979129.390	979156.967	-27.577	29.358	-10.645	-8.865	-7.177	-5.396	-7.575	-5.795	-7.974	-6.193	-8.373	-6.592	-8.771
23206240	562399.565	6923202.950	98.677	-27.8143394	135.6335517	-0.4854518	0.2177230	-0.9709036	0.6812789	979129.444	979156.962	-27.518	30.452	-11.042	-8.108	-7.444	-4.510	-7.858	-4.924	-8.271	-5.337	-8.685	-5.751	-9.098
23206320	563199.672	6923201.027	101.562	-27.8143192	135.6416750	-0.4854514	0.2177227	-0.9709029	0.6812782	979130.229	979156.961	-26.732	31.342	-11.365	-6.754	-7.662	-3.051	-8.087	-3.477	-8.513	-3.902	-8.939	-4.328	-9.364
23206400	564014.273	6923200.780	112.621	-27.8142828	135.6499453	-0.4854508	0.2177222	-0.9709016	0.6812770	979129.998	979156.958	-26.960	34.755	-12.602	-4.807	-8.496	-0.701	-8.968	-1.173	-9.440	-1.645	-9.912	-2.117	-10.384
23206480	564801.952	6923199.611	129.946	-27.8142555	135.6579424	-0.4854503	0.2177218	-0.9709007	0.6812761	979127.879	979156.956	-29.077	40.101	-14.541	-3.516	-9.803	1.222	-10.347	0.677	-10.892	0.132	-11.437	-0.412	-11.981
23206560	565599.331	6923209.744	116.157	-27.8141252	135.6660373	-0.4854481	0.2177199	-0.9708961	0.6812719	979132.339	979156.946	-24.607	35.846	-12.998	-1.759	-8.763	2.476	-9.249	1.989	-9.736	1.503	-10.223	1.016	-10.710
23206640	566387.287	6923232.899	128.105	-27.8138774	135.6740357	-0.4854437	0.2177164	-0.9708875	0.6812638	979131.401	979156.928	-25.527	39.533	-14.335	-0.328	-9.664	4.343	-10.201	3.806	-10.738	3.269	-11.275	2.732	-11.812
23206720	567216.688	6923200.764	138.207	-27.8141261	135.6824581	-0.4854481	0.2177200	-0.9708962	0.6812719	979129.978	979156.946	-26.968	42.651	-15.465	0.217	-10.426	5.256	-11.005	4.677	-11.585	4.098	-12.164	3.519	-12.743
23206800	567994.963	6923197.125	103.929	-27.8141197	135.6903597	-0.4854480	0.2177199	-0.9708959	0.6812717	979136.369	979156.946	-20.577	32.072	-11.630	-0.134	-7.840	3.656	-8.276	3.220	-8.711	2.784	-9.147	2.349	-9.582
24006000	559997.602	6923992.390	80.802	-27.8073228	135.6091256	-0.4853293	0.2176220	-0.9706587	0.6810506	979133.105	979156.439	-23.334	24.935	-9.042	-7.440	-6.096	-4.494	-6.434	-4.833	-6.773	-5.172	-7.111	-5.510	-7.450
24006080	560797.020	6923998.379	86.313	-27.8072327	135.6172410	-0.4853278	0.2176207	-0.9706555	0.6810476	979131.101	979156.433	-25.332	26.636	-9.658	-8.354	-6.511	-5.207	-6.873	-5.568	-7.235	-5.930	-7.596	-6.292	-7.958
24006160	561600.881	6924000.770	90.880	-27.8071744	135.6254017	-0.4853267	0.2176198	-0.9706535	0.6810457	979129.454	979156.428	-26.974	28.046	-10.169	-9.098	-6.856	-5.784	-7.237	-6.165	-7.618	-6.546	-7.998	-6.927	-8.379
24006240	562392.877	6923993.649	90.908	-27.8072020	135.6334424	-0.4853272	0.2176202	-0.9706545	0.6810466	979129.901	979156.430	-26.529	28.054	-10.173	-8.648	-6.858	-5.333	-7.239	-5.714	-7.620	-6.095	-8.001	-6.476	-8.382
24006320	563204.896	6923996.047	101.694	-27.8071424	135.6416859	-0.4853262	0.2176194	-0.9706524	0.6810447	979129.068	979156.426	-27.358	31.383	-11.380	-7.355	-7.672	-3.647	-8.098	-4.073	-8.524	-4.499	-8.950	-4.925	-9.376
24006400	563997.585	6924002.119	113.740	-27.8070499	135.6497329	-0.4853246	0.2176180	-0.9706492	0.6810417	979128.204	979156.419	-28.215	35.100	-12.727	-5.842	-8.580	-1.695	-9.057	-2.172	-9.534	-2.648	-10.010	-3.125	-10.487
24006480	564801.335	6923999.359	118.781	-27.8070362	135.6578926	-0.4853243	0.2176178	-0.9706487	0.6810413	979128.754	979156.418	-27.664	36.656	-13.292	-4.300	-8.961	0.031	-9.458	-0.466	-9.956	-0.964	-10.454	-1.462	-10.952
24006560	565597.236	6924004.570	122.588	-27.8069504	135.6659722	-0.4853228	0.2176166	-0.9706457	0.6810385	979128.983	979156.412	-27.429	37.831	-13.718	-3.315	-9.248	1.154	-9.762	0.641	-10.275	0.127	-10.789	-0.387	-11.303
24006640	566400.464	6924003.025	120.413	-27.8069248	135.6741266	-0.4853224	0.2176162	-0.9706448	0.6810376	979131.233	979156.410	-25.177	37.159	-13.474	-1.491	-9.084	2.899	-9.588	2.394	-10.093	1.890	-10.598	1.385	-11.102
24006720	567177.114	6923996.136	162.808	-27.8069483	135.6820114	-0.4853228	0.2176166	-0.9706456	0.6810384	979123.205	979156.411	-33.206	50.243	-18.218	-1.182	-12.282	4.754	-12.964	4.072	-13.647	3.390	-14.329	2.707	-15.011
24006800	567984.999	6923980.526	108.563	-27.8070485	135.6902138	-0.4853246	0.2176180	-0.9706491	0.6810417	979133.271	979156.419	-23.148	33.503	-12.148	-1.793	-8.190	2.165	-8.645	1.710	-9.100	1.255	-9.555	0.800	-10.010
24806400	564003.537	6924808.320	106.537	-27.7997721	135.6497500	-0.4851976	0.2175132	-0.9703951	0.6808049	979128.423	979155.877	-27.454	32.877	-11.921	-6.498	-8.037	-2.613	-8.483	-3.060	-8.930	-3.506	-9.376	-3.953	-9.823
24806480	564803.372	6924795.388	116.538	-27.7998504	135.6578700	-0.4851989	0.2175143	-0.9703978	0.6808074	979127.364	979155.883	-28.519	35.964	-13.041	-5.595	-8.791	-1.346	-9.280	-1.835	-9.768	-2.323	-10.257	-2.812	-10.745
24806560	565603.542	6924800.589	115.235	-27.7997645	135.6659925	-0.4851974	0.2175131	-0.9703948	0.6808046	979128.499	979155.876	-27.377	35.562	-12.895	-4.710	-8.693	-0.509	-9.176	-0.992	-9.659	-1.475	-10.142	-1.958	-10.625
24806640	566400.262	6924801.390	114.071	-27.7997181	135.6740801	-0.4851966	0.2175124	-0.9703932	0.6808031	979130.472	979155.873	-25.401	35.202	-12.765	-2.963	-8.605	1.196	-9.083	0.718	-9.561	0.240	-10.040	-0.238	-10.518
24806720	567201.798	6924810.861	132.557	-27.7995926	135.6822161	-0.4851944	0.2175106	-0.9703888	0.6807990	979128.034	979155.863	-27.829	40.907	-14.833	-1.755	-10.000	3.078	-10.555	2.522	-11.111	1.967	-11.666	1.411	-12.222
24806800	567975.969	6924812.662	103.326	-27.7995373	135.6900747	-0.4851935	0.2175098	-0.9703869	0.6807972	979132.648	979155.859	-23.211	31.886	-11.562	-2.887	-7.795	0.880	-8.228	0.447	-8.661	0.014	-9.094	-0.419	-9.527
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
5101	565784.062	6921973.597	124.939	-27.8252747	135.6679811	-0.4856427	0.2178806	-0.9712853	0.6816345	979133.638	979157.777	-24.139	38.556	-13.981	0.436	-9.425	4.992	-9.949	4.468	-10.472	3.945	-10.996	3.421	-11.520
22406480	564790.023	6922395.076	116.619	-27.8215185	135.6578651	-0.4855771	0.2178265	-0.9711542	0.6815124	979132.435	979157.497	-25.062	35.989	-13.050	-2.123	-8.798	2.129	-9.286	1.640	-9.775	1.151	-10.264	0.663	-10.753
24806000	559999.897	6924809.903	80.165	-27.7999430	135.6091078	-0.4852005	0.2175157	-0.9704011	0.6808104	979132.854	979155.889	-23.035	24.739	-8.970	-7.267	-6.047	-4.344	-6.383	-4.680	-6.719	-5.016	-7.055	-5.352	-7.391
24806080	560802.097	6924818.004	80.738	-27.7998337	135.6172508	-0.4851986	0.2175141	-0.9703973	0.6808069	979131.906	979155.881	-23.975	24.916	-9.035	-8.094	-6.091	-5.150	-6.429	-5.489	-6.767	-5.827	-7.106	-6.165	-7.444
24806160	561598.132	6924800.274	84.012	-27.7999574	135.6253325	-0.4852008	0.2175159	-0.9704016	0.6808109	979130.614	979155.891	-25.277	25.926	-9.401	-8.751	-6.338	-5.688	-6.690	-6.040	-7.042	-6.392	-7.394	-6.744	-7.746
24806240	562405.151	6924799.355	91.845	-27.7999284	135.6335248	-0.4852003	0.2175155	-0.9704006	0.6808100	979129.276	979155.888	-26.612	28.343	-10.277	-8.546	-6.929	-5.198	-7.314	-5.583	-7.698	-5.967	-8.083	-6.352	-8.468
24806320	563195.708	6924800.439	99.889	-27.7998815	135.6415499	-0.4851995	0.2175148	-0.9703989	0.6808084	979128.590	979155.885	-27.295	30.826	-11.178	-7.647	-7.535	-4.005	-7.954	-4.423	-8.373	-4.842	-8.791	-5.260	-9.210
24806400	564003.469	6924808.413	106.558	-27.7997712	135.6497493	-0.4851975	0.2175132	-0.9703951	0.6808048	979128.420	979155.877	-27.457	32.884	-11.924	-6.497	-8.039	-2.611	-8.485	-3.058	-8.932	-3.505	-9.378	-3.951	-9.825
25606000	560003.822	6925595.428	81.821	-27.7928518	135.6091081	-0.4850768	0.2174136	-0.9701535	0.6805796	979132.239	979155.361	-23.122	25.250	-9.156	-7.028	-6.172	-4.045	-6.515	-4.388	-6.858	-4.731	-7.201	-5.073	-7.544
25606080	560798.319	6925596.404	84.237	-27.7928072	135.6171727	-0.4850760	0.2174129	-0.9701520	0.6805782	979130.781	979155.358	-24.577	25.996	-9.426	-8.007	-6.355	-4.936	-6.708	-5.289	-7.061	-5.642	-7.414	-5.995	-7.767
25606160	561599.347	6925594.214	83.978	-27.7927904	135.6253038	-0.4850757	0.2174127	-0.9701514	0.6805776	979130.559	979155.357	-24.798	25.916	-9.397	-8.279	-6.335	-5.217	-6.687	-5.569	-7.039	-5.921	-7.391	-6.273	-7.743
25606240	562394.700	6925589.851	87.167	-27.7927930	135.6333774	-0.4850757	0.2174127	-0.9701515	0.6805777	979130.365	979155.357	-24.992	26.900	-9.754	-7.846	-6.576	-4.668	-6.941	-5.033	-7.306	-5.398	-7.672	-5.764	-8.037
25606320	563183.617	6925605.670	91.566	-27.7926133	135.6413845	-0.4850726	0.2174101	-0.9701452	0.6805719	979130.155	979155.343	-25.188	28.257	-10.246	-7.177	-6.908	-3.839	-7.291	-4.223	-7.675	-4.606	-8.059	-4.990	-8.443
25606400	563992.188	6925602.310	98.585	-27.7926053	135.6495922	-0.4850725	0.2174100	-0.9701449	0.6805716	979129.316	979155.343	-26.027	30.423	-11.032	-6.635	-7.437	-3.041	-7.850	-3.454	-8.263	-3.867	-8.677	-4.280	-9.090
25606480	564787.568	6925603.931	103.774	-27.7925525	135.6576657	-0.4850715	0.2174093	-0.9701431	0.6805699	979128.674	979155.339	-26.665	32.025	-11.612	-6.253	-7.829	-2.469	-8.263	-2.904	-8.698	-3.339	-9.133	-3.774	-9.568
25606560	565600.447	6925601.686	103.265	-27.7925332	135.6659170	-0.4850712	0.2174090	-0.9701424	0.6805693	979128.916	979155.338	-26.422	31.868	-11.555	-6.109	-7.790	-2.344	-8.223	-2.777	-8.656	-3.210	-9.088	-3.642	-9.521
25606640	566396.638	6925598.341	108.157	-27.7925242	135.6739989	-0.4850711	0.2174088	-0.9701421	0.6805690	979129.888	979155.337	-25.449	33.377	-12.103	-4.174	-8.159	-0.231	-8.612	-0.684	-9.066	-1.137	-9.519	-1.591	-9.972
25606720	567204.699	6925593.304	114.071	-27.7925294	135.6822014	-0.4850711	0.2174089	-0.9701423	0.6805691	979130.251	979155.337	-25.086	35.202	-12.765	-2.648	-8.605	1.511	-9.083	1.033	-9.561	0.555	-10.040	0.077	-10.518
25606800	567985.532	6925622.826	103.367	-27.7922236	135.6901256	-0.4850658	0.2174045	-0.9701316	0.6805592	979130.878	979155.314	-24.436	31.899	-11.567	-4.104	-7.798	-0.335	-8.231	-0.768	-8.664	-1.202	-9.097	-1.635	-9.531
26406000	560001.427	6926404.174	82.887	-27.7855513	135.6090431	-0.4849494	0.2173085	-0.9698987	0.6803420	979131.742	979154.818	-23.076	25.579	-9.275	-6.772	-6.253	-3.749	-6.600	-4.097	-6.948	-4.444	-7.295	-4.792	-7.642
26406080	560807.189	6926403.704	85.050	-27.7855193	135.6172216	-0.4849488	0.2173080	-0.9698976	0.6803409	979130.458	979154.815	-24.357	26.246	-9.517	-7.628	-6.416	-4.527	-6.772	-4.883	-7.129	-5.240	-7.485	-5.596	-7.842
26406160	561601.506	6926402.162	82.526	-27.7854970	135.6252840	-0.4849484	0.2173077	-0.9698968	0.6803402	979130.840	979154.813	-23.973	25.468	-9.235	-7.741	-6.226	-4.732	-6.571	-5.077	-6.917	-5.423	-7.263	-5.769	-7.609
26406240	562398.350	6926401.054	93.491	-27.7854701	135.6333720	-0.4849479	0.2173073	-0.9698959	0.6803393	979128.932	979154.811	-25.879	28.851	-10.462	-7.490	-7.053	-4.081	-7.445	-4.473	-7.836	-4.865	-8.228	-5.256	-8.620
26406320	563210.216	6926402.910	98.421	-27.7854154	135.6416123	-0.4849470	0.2173065	-0.9698940	0.6803375	979128.408	979154.807	-26.399	30.373	-11.013	-7.040	-7.425	-3.451	-7.837	-3.864	-8.250	-4.276	-8.662	-4.689	-9.075
26406400	563988.375	6926394.430	100.139	-27.7854550	135.6495110	-0.4849477	0.2173071	-0.9698953	0.6803388	979128.381	979154.810	-26.429	30.903	-11.206	-6.732	-7.554	-3.081	-7.974	-3.500	-8.394	-3.920	-8.813	-4.340	-9.233
26406480	564808.700	6926398.377	97.826	-27.7853800	135.6578370	-0.4849464	0.2173060	-0.9698927	0.6803364	979129.100	979154.805	-25.705	30.189	-10.947	-6.462	-7.380	-2.895	-7.790	-3.305	-8.200	-3.715	-8.610	-4.125	-9.020
26406560	565610.980	6926402.599	96.755	-27.7853029	135.6659798	-0.4849450	0.2173049	-0.9698900	0.6803339	979128.447	979154.799	-26.352	29.859	-10.827	-7.320	-7.299	-3.792	-7.705	-4.198	-8.110	-4.603	-8.516	-5.009	-8.921
26406640	566393.553	6926402.870	100.488	-27.7852619	135.6739228	-0.4849443	0.2173043	-0.9698886	0.6803326	979128.023	979154.796	-26.773	31.011	-11.245	-7.007	-7.581	-3.343	-8.002	-3.764	-8.423	-4.185	-8.844	-4.606	-9.265
26406720	567199.304	6926397.409	107.642	-27.7852711	135.6821014	-0.4849445	0.2173044	-0.9698889	0.6803328	979128.724	979154.797	-26.073	33.218	-12.045	-4.899	-8.120	-0.975	-8.571	-1.426	-9.023	-1.877	-9.474	-2.328	-9.925
26406800	568002.707	6926398.584	100.130	-27.7852200	135.6902557	-0.4849436	0.2173037	-0.9698871	0.6803312	979129.513	979154.793	-25.280	30.900	-11.205	-5.584	-7.554	-1.933	-7.973	-2.353	-8.393	-2.773	-8.813	-3.192	-9.232
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
29605360	553592.897	6929602.408	92.311	-27.7569516	135.5438524	-0.4844502	0.2168969	-0.9689004	0.6794105	979128.918	979152.688	-23.770	28.487	-10.330	-5.613	-6.964	-2.247	-7.351	-2.634	-7.738	-3.021	-8.124	-3.408	-8.511
29605440	554391.285	6929593.840	94.556	-27.7569969	135.5519544	-0.4844510	0.2168975	-0.9689020	0.6794120	979128.964	979152.692	-23.728	29.180	-10.581	-5.129	-7.133	-1.681	-7.529	-2.077	-7.926	-2.474	-8.322	-2.870	-8.718
29605520	555197.852	6929599.428	93.244	-27.7569135	135.5601388	-0.4844495	0.2168963	-0.9688991	0.6794093	979130.340	979152.686	-22.346	28.775	-10.434	-4.005	-7.034	-0.605	-7.425	-0.995	-7.816	-1.386	-8.206	-1.777	-8.597
29605600	555989.580	6929607.503	95.218	-27.7568078	135.5681724	-0.4844477	0.2168948	-0.9688954	0.6794058	979130.591	979152.678	-22.087	29.384	-10.655	-3.357	-7.183	0.114	-7.582	-0.285	-7.981	-0.684	-8.380	-1.083	-8.779
29605680	556790.824	6929604.349	95.599	-27.7568027	135.5763031	-0.4844476	0.2168947	-0.9688952	0.6794056	979130.447	979152.677	-22.230	29.502	-10.697	-3.426	-7.212	0.060	-7.612	-0.341	-8.013	-0.742	-8.414	-1.142	-8.814
29605760	557589.567	6929599.692	94.064	-27.7568107	135.5844085	-0.4844477	0.2168949	-0.9688955	0.6794059	979130.295	979152.678	-22.383	29.028	-10.526	-3.881	-7.096	-0.451	-7.490	-0.845	-7.884	-1.239	-8.279	-1.634	-8.673
29605840	558393.436	6929598.859	95.604	-27.7567835	135.5925657	-0.4844473	0.2168945	-0.9688945	0.6794050	979128.967	979152.676	-23.709	29.503	-10.698	-4.904	-7.212	-1.418	-7.613	-1.818	-8.014	-2.219	-8.414	-2.620	-8.815
29605920	559195.908	6929603.116	94.305	-27.7567099	135.6007084	-0.4844460	0.2168934	-0.9688920	0.6794026	979128.262	979152.671	-24.409	29.103	-10.553	-5.859	-7.114	-2.420	-7.509	-2.815	-7.905	-3.211	-8.300	-3.606	-8.695
29606000	559995.646	6929600.337	96.484	-27.7566995	135.6088238	-0.4844458	0.2168933	-0.9688916	0.6794023	979126.851	979152.670	-25.819	29.775	-10.797	-6.840	-7.279	-3.322	-7.683	-3.727	-8.087	-4.131	-8.492	-4.535	-8.896
30405360	553597.922	6930399.261	94.247	-27.7497581	135.5438677	-0.4843246	0.2167934	-0.9686493	0.6791761	979127.242	979152.153	-24.911	29.085	-10.546	-6.373	-7.110	-2.936	-7.505	-3.331	-7.900	-3.726	-8.295	-4.121	-8.690
30405440	554397.799	6930403.280	96.142	-27.7496896	135.5519837	-0.4843235	0.2167924	-0.9686469	0.6791739	979127.603	979152.148	-24.545	29.669	-10.758	-5.634	-7.253	-2.128	-7.656	-2.531	-8.059	-2.934	-8.462	-3.337	-8.864
30405520	555194.158	6930403.387	97.099	-27.7496562	135.5600641	-0.4843229	0.2167919	-0.9686457	0.6791728	979128.356	979152.146	-23.790	29.965	-10.865	-4.690	-7.325	-1.150	-7.732	-1.557	-8.139	-1.964	-8.546	-2.371	-8.953
30405600	555995.641	6930399.931	96.041	-27.7496542	135.5681968	-0.4843228	0.2167919	-0.9686457	0.6791727	979129.625	979152.145	-22.520	29.638	-10.747	-3.629	-7.245	-0.127	-7.648	-0.530	-8.050	-0.932	-8.453	-1.335	-8.855
30405680	556803.019	6930405.027	104.070	-27.7495743	135.5763888	-0.4843214	0.2167908	-0.9686429	0.6791701	979128.085	979152.140	-24.055	32.116	-11.645	-3.584	-7.851	0.211	-8.287	-0.226	-8.723	-0.662	-9.159	-1.098	-9.595
30405760	557600.171	6930401.121	97.604	-27.7495756	135.5844774	-0.4843215	0.2167908	-0.9686429	0.6791701	979129.210	979152.140	-22.930	30.121	-10.922	-3.731	-7.363	-0.172	-7.772	-0.581	-8.181	-0.990	-8.590	-1.399	-8.999
30405840	558393.309	6930401.314	99.884	-27.7495396	135.5925252	-0.4843208	0.2167903	-0.9686417	0.6791690	979127.702	979152.137	-24.435	30.824	-11.177	-4.788	-7.535	-1.146	-7.954	-1.564	-8.372	-1.983	-8.791	-2.402	-9.210
30405920	559207.770	6930400.606	100.554	-27.7495104	135.6007893	-0.4843203	0.2167898	-0.9686406	0.6791680	979126.431	979152.135	-25.704	31.031	-11.752	-5.925	-7.586	-2.258	-8.007	-2.680	-8.428	-3.101	-8.850	-3.523	-9.271
30406000	559995.583	6930400.998	91.979	-27.7494719	135.6087829	-0.4843197	0.2167893	-0.9686393	0.6791668	979127.420	979152.132	-24.712	28.385	-10.292	-6.620	-6.939	-3.266	-7.324	-3.651	-7.710	-4.037	-8.095	-4.422	-8.481
31205360	553595.388	6931199.609	96.227	-27.7425332	135.5438061	-0.4841985	0.2166895	-0.9683971	0.6789406	979125.647	979151.616	-25.969	29.696	-10.768	-7.041	-7.259	-3.532	-7.662	-3.936	-8.066	-4.339	-8.469	-4.742	-8.872
31205440	554395.716	6931201.096	99.551	-27.7424877	135.5519262	-0.4841978	0.2166888	-0.9683955	0.6789391	979125.772	979151.612	-25.840	30.721	-11.140	-6.259	-7.510	-2.629	-7.927	-3.046	-8.344	-3.463	-8.762	-3.880	-9.179
31205520	555190.642	6931199.728	99.266	-27.7424676	135.5599917	-0.4841974	0.2166885	-0.9683948	0.6789385	979126.907	979151.611	-24.704	30.633	-11.108	-5.178	-7.488	-1.559	-7.904	-1.975	-8.320	-2.391	-8.736	-2.807	-9.153
31205600	555993.527	6931202.430	101.415	-27.7424100	135.5681377	-0.4841964	0.2166877	-0.9683928	0.6789366	979127.458	979151.607	-24.149	31.297	-11.348	-4.200	-7.651	-0.502	-8.076	-0.927	-8.501	-1.352	-8.926	-1.778	-9.351
31205680	556794.490	6931198.707	110.861	-27.7424100	135.5762645	-0.4841964	0.2166877	-0.9683928	0.6789366	979125.764	979151.607	-25.843	34.212	-12.405	-4.036	-8.363	0.006	-8.828	-0.459	-9.292	-0.923	-9.757	-1.388	-10.222
31205760	557592.916	6931201.416	105.075	-27.7423515	135.5843653	-0.4841954	0.2166869	-0.9683908	0.6789347	979127.052	979151.602	-24.550	32.426	-11.758	-3.882	-7.927	-0.051	-8.367	-0.491	-8.807	-0.931	-9.248	-1.372	-9.688
31205840	558390.154	6931198.103	103.236	-27.7423471	135.5924542	-0.4841953	0.2166868	-0.9683906	0.6789346	979126.829	979151.602	-24.773	31.859	-11.552	-4.466	-7.788	-0.702	-8.221	-1.135	-8.653	-1.567	-9.086	-2.000	-9.519
31205920	559191.861	6931195.865	97.218	-27.7423322	135.6005885	-0.4841950	0.2166866	-0.9683901	0.6789341	979127.173	979151.601	-24.428	30.001	-10.879	-5.305	-7.334	-1.760	-7.741	-2.168	-8.149	-2.575	-8.556	-2.983	-8.964
31206000	559995.525	6931199.149	97.873	-27.7422669	135.6087423	-0.4841939	0.2166857	-0.9683878	0.6789319	979125.885	979151.596	-25.711	30.204	-10.952	-6.459	-7.383	-2.891	-7.794	-3.301	-8.204	-3.711	-8.614	-4.121	-9.024
32005360	553598.756	6932002.089	100.941	-27.7352889	135.5438043	-0.4840721	0.2165853	-0.9681442	0.6787045	979123.282	979151.077	-27.795	31.150	-11.295	-7.940	-7.615	-4.259	-8.038	-4.682	-8.461	-5.105	-8.884	-5.528	-9.307
32005440	554401.483	6932000.855	103.047	-27.7352678	135.5519483	-0.4840717	0.2165850	-0.9681435	0.6787038	979123.757	979151.075	-27.318	31.800	-11.531	-7.049	-7.774	-3.292	-8.206	-3.723	-8.637	-4.155	-9.069	-4.587	-9.501
32005520	555198.553	6932000.124	103.403	-27.7352419	135.5600350	-0.4840713	0.2165846	-0.9681426	0.6787029	979124.585	979151.073	-26.488	31.910	-11.571	-6.149	-7.801	-2.379	-8.234	-2.812	-8.667	-3.245	-9.101	-3.679	-9.534
32005600	556003.346	6931998.158	104.862	-27.7352264	135.5682001	-0.4840710	0.2165844	-0.9681420	0.6787024	979125.378	979151.072	-25.694	32.360	-11.734	-5.068	-7.911	-1.244	-8.350	-1.684	-8.790	-2.123	-9.229	-2.563	-9.668
32005680	556805.931	6932006.599	113.393	-27.7351165	135.5763422	-0.4840691	0.2165828	-0.9681382	0.6786989	979123.923	979151.064	-27.141	34.993	-12.689	-4.837	-8.554	-0.702	-9.029	-1.177	-9.505	-1.653	-9.980	-2.128	-10.455
32005760	557600.929	6932000.159	109.322	-27.7351408	135.5844081	-0.4840695	0.2165832	-0.9681391	0.6786996	979125.134	979151.066	-25.932	33.737	-12.233	-4.428	-8.247	-0.442	-8.705	-0.900	-9.163	-1.358	-9.622	-1.817	-10.080
32005840	558394.356	6932006.751	103.296	-27.7350471	135.5924574	-0.4840679	0.2165818	-0.9681358	0.6786966	979126.394	979151.059	-24.665	31.877	-11.559	-4.347	-7.792	-0.580	-8.225	-1.013	-8.658	-1.446	-9.091	-1.879	-9.524
32005920	559196.836	6932014.730	97.992	-27.7349399	135.6005984	-0.4840660	0.2165803	-0.9681320	0.6786931	979127.103	979151.051	-23.948	30.240	-10.965	-4.673	-7.392	-1.100	-7.803	-1.511	-8.214	-1.921	-8.624	-2.332	-9.035
32006000	559995.429	6932005.101	110.878	-27.7349915	135.6087009	-0.4840669	0.2165810	-0.9681338	0.6786948	979123.147	979151.055	-27.908	34.217	-12.407	-6.098	-8.364	-2.055	-8.829	-2.520	-9.294	-2.985	-9.758	-3.449	-10.223
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
31204080	540805.409	6931202.193	100.918	-27.7429592	135.4140355	-0.4842060	0.2166956	-0.9684120	0.6789545	979104.661	979151.647	-46.986	31.143	-11.293	-27.136	-7.613	-23.456	-8.036	-23.879	-8.459	-24.302	-8.882	-24.725	-9.305
31204160	541598.572	6931205.889	103.980	-27.7429015	135.4220831	-0.4842050	0.2166948	-0.9684100	0.6789526	979105.386	979151.643	-46.257	32.088	-11.635	-25.804	-7.844	-22.013	-8.280	-22.449	-8.716	-22.884	-9.151	-23.320	-9.587
31204240	542397.930	6931196.261	100.929	-27.7429634	135.4301940	-0.4842061	0.2166957	-0.9684121	0.6789546	979107.007	979151.648	-44.641	31.147	-11.294	-24.788	-7.614	-21.108	-8.037	-21.531	-8.460	-21.954	-8.883	-22.377	-9.306
31204320	543202.289	6931202.939	99.794	-27.7428775	135.4383551	-0.4842046	0.2166944	-0.9684091	0.6789518	979107.260	979151.641	-44.381	30.796	-11.167	-24.752	-7.528	-21.113	-7.946	-21.531	-8.365	-21.950	-8.783	-22.368	-9.201
31204400	543999.354	6931201.609	97.402	-27.7428637	135.4464424	-0.4842043	0.2166942	-0.9684086	0.6789514	979107.763	979151.640	-43.877	30.058	-10.899	-24.718	-7.348	-21.167	-7.756	-21.575	-8.164	-21.983	-8.572	-22.391	-8.981
31204480	544799.279	6931202.215	99.400	-27.7428318	135.4545587	-0.4842038	0.2166938	-0.9684075	0.6789504	979107.628	979151.638	-44.010	30.675	-11.123	-24.458	-7.499	-20.834	-7.915	-21.250	-8.332	-21.667	-8.748	-22.083	-9.165
31204560	545599.907	6931198.776	98.377	-27.7428359	135.4626822	-0.4842038	0.2166938	-0.9684077	0.6789505	979108.672	979151.638	-42.966	30.359	-11.008	-23.615	-7.421	-20.028	-7.834	-20.441	-8.246	-20.853	-8.658	-21.265	-9.071
31204640	546399.440	6931199.433	97.665	-27.7428026	135.4707945	-0.4842032	0.2166934	-0.9684065	0.6789494	979109.902	979151.636	-41.734	30.139	-10.929	-22.523	-7.368	-18.962	-7.777	-19.371	-8.186	-19.781	-8.596	-20.190	-9.005
31204720	547203.353	6931199.648	96.423	-27.7427726	135.4789512	-0.4842027	0.2166929	-0.9684055	0.6789484	979111.831	979151.634	-39.803	29.756	-10.790	-20.836	-7.274	-17.320	-7.678	-17.724	-8.082	-18.129	-8.486	-18.533	-8.890
31204800	547998.001	6931202.559	95.686	-27.7427182	135.4870138	-0.4842018	0.2166922	-0.9684036	0.6789467	979113.797	979151.629	-37.832	29.529	-10.707	-19.011	-7.218	-15.522	-7.619	-15.923	-8.020	-16.324	-8.421	-16.725	-8.822
31204880	548799.703	6931192.502	95.476	-27.7427801	135.4951484	-0.4842029	0.2166930	-0.9684057	0.6789487	979115.926	979151.634	-35.708	29.464	-10.684	-16.928	-7.203	-13.447	-7.603	-13.847	-8.003	-14.247	-8.403	-14.647	-8.803
31204960	549598.017	6931201.630	95.545	-27.7426685	135.5032479	-0.4842009	0.2166914	-0.9684018	0.6789450	979117.926	979151.626	-33.700	29.485	-10.691	-14.906	-7.208	-11.422	-7.608	-11.823	-8.009	-12.223	-8.409	-12.624	-8.809
31205040	550395.465	6931199.445	96.577	-27.7426585	135.5113391	-0.4842007	0.2166913	-0.9684015	0.6789447	979119.413	979151.625	-32.212	29.804	-10.807	-13.215	-7.286	-9.694	-7.690	-10.099	-8.095	-10.503	-8.500	-10.908	-8.905
31205120	551193.401	6931203.565	96.136	-27.7425912	135.5194349	-0.4841996	0.2166903	-0.9683991	0.6789425	979121.240	979151.620	-30.380	29.668	-10.758	-11.470	-7.252	-7.965	-7.655	-8.368	-8.058	-8.771	-8.461	-9.173	-8.864
31205200	551996.391	6931199.874	96.110	-27.7425937	135.5275824	-0.4841996	0.2166904	-0.9683992	0.6789426	979123.008	979151.620	-28.612	29.660	-10.755	-9.707	-7.250	-6.203	-7.653	-6.606	-8.056	-7.009	-8.459	-7.411	-8.862
31205280	552795.371	6931201.419	94.806	-27.7425486	135.5356889	-0.4841988	0.2166897	-0.9683976	0.6789411	979124.850	979151.617	-26.767	29.257	-10.609	-8.118	-7.152	-4.662	-7.549	-5.059	-7.947	-5.456	-8.344	-5.854	-8.741
32004080	540795.413	6932003.543	101.646	-27.7357254	135.4139068	-0.4840797	0.2165916	-0.9681595	0.6787187	979103.400	979151.109	-47.709	31.368	-11.374	-27.716	-7.668	-24.009	-8.094	-24.435	-8.520	-24.861	-8.946	-25.287	-9.372
32004160	541605.450	6932001.674	99.991	-27.7357174	135.4221252	-0.4840796	0.2165915	-0.9681592	0.6787184	979104.854	979151.109	-46.255	30.857	-11.189	-26.586	-7.543	-22.941	-7.962	-23.360	-8.381	-23.779	-8.800	-24.198	-9.219
32004240	542399.689	6932000.692	100.731	-27.7357015	135.4301833	-0.4840793	0.2165913	-0.9681586	0.6787179	979105.715	979151.108	-45.393	31.086	-11.272	-25.579	-7.599	-21.906	-8.021	-22.328	-8.443	-22.750	-8.865	-23.172	-9.288
32004320	543200.856	6932000.294	99.560	-27.7356795	135.4383117	-0.4840789	0.2165909	-0.9681579	0.6787172	979106.578	979151.106	-44.528	30.724	-11.141	-24.944	-7.511	-21.314	-7.928	-21.732	-8.345	-22.149	-8.762	-22.566	-9.180
32004400	544001.463	6932002.915	99.294	-27.7356299	135.4464343	-0.4840781	0.2165902	-0.9681561	0.6787156	979107.084	979151.102	-44.018	30.642	-11.111	-24.487	-7.491	-20.867	-7.907	-21.283	-8.323	-21.699	-8.739	-22.115	-9.155
32004480	544801.102	6931997.929	100.837	-27.7356485	135.4545474	-0.4840784	0.2165905	-0.9681568	0.6787162	979107.274	979151.104	-43.830	31.118	-11.284	-23.995	-7.607	-20.318	-8.030	-20.741	-8.452	-21.163	-8.875	-21.586	-9.297
32004560	545597.019	6931998.707	100.086	-27.7356147	135.4626224	-0.4840778	0.2165900	-0.9681556	0.6787151	979108.351	979151.101	-42.750	30.887	-11.200	-23.063	-7.550	-19.414	-7.970	-19.833	-8.389	-20.253	-8.809	-20.672	-9.228
32004640	546401.235	6932000.485	98.835	-27.7355712	135.4707816	-0.4840770	0.2165894	-0.9681541	0.6787137	979109.818	979151.098	-41.280	30.500	-11.060	-21.839	-7.456	-18.235	-7.870	-18.649	-8.284	-19.064	-8.699	-19.478	-9.113
32004720	547197.050	6932003.503	98.098	-27.7355162	135.4788555	-0.4840761	0.2165886	-0.9681522	0.6787119	979111.512	979151.094	-39.582	30.273	-10.977	-20.286	-7.400	-16.709	-7.811	-17.120	-8.223	-17.531	-8.634	-17.942	-9.045
32004800	547997.137	6932002.524	97.355	-27.7354967	135.4869729	-0.4840757	0.2165883	-0.9681515	0.6787112	979113.250	979151.092	-37.842	30.044	-10.894	-18.693	-7.344	-15.143	-7.752	-15.551	-8.160	-15.959	-8.568	-16.367	-8.976
32004880	548796.843	6932001.425	96.792	-27.7354778	135.4950864	-0.4840754	0.2165880	-0.9681508	0.6787106	979115.068	979151.091	-36.023	29.870	-10.831	-16.984	-7.302	-13.455	-7.707	-13.860	-8.113	-14.266	-8.519	-14.672	-8.924
32004960	549595.950	6932000.012	97.808	-27.7354613	135.5031939	-0.4840751	0.2165878	-0.9681502	0.6787101	979116.488	979151.090	-34.602	30.184	-10.945	-15.363	-7.378	-11.797	-7.788	-12.206	-8.198	-12.616	-8.608	-13.026	-9.018
32005040	550396.058	6932004.106	100.461	-27.7353946	135.5113112	-0.4840740	0.2165868	-0.9681479	0.6787079	979117.672	979151.085	-33.413	31.002	-11.242	-13.652	-7.579	-9.989	-8.000	-10.410	-8.421	-10.831	-8.842	-11.252	-9.263
32005120	551198.016	6932002.345	99.609	-27.7353802	135.5194476	-0.4840737	0.2165866	-0.9681474	0.6787075	979119.478	979151.084	-31.606	30.739	-11.146	-12.013	-7.514	-8.381	-7.932	-8.798	-8.349	-9.216	-8.767	-9.633	-9.184
32005200	551998.958	6932002.397	98.858	-27.7353490	135.5275735	-0.4840732	0.2165862	-0.9681463	0.6787064	979120.970	979151.081	-30.111	30.508	-11.062	-10.666	-7.458	-7.061	-7.872	-7.476	-8.286	-7.890	-8.701	-8.304	-9.115
32005280	552803.881	6932000.459	97.376	-27.7353351	135.5357399	-0.4840729	0.2165860	-0.9681458	0.6787060	979122.734	979151.080	-28.346	30.050	-10.896	-9.192	-7.346	-5.642	-7.754	-6.050	-8.162	-6.458	-8.570	-6.866	-8.978
32005360	553598.723	6932002.061	100.944	-27.7352892	135.5438039	-0.4840721	0.2165853	-0.9681442	0.6787045	979123.228	979151.077	-27.849	31.151	-11.296	-7.993	-7.615	-4.313	-8.038	-4.736	-8.461	-5.159	-8.884	-5.582	-9.307
32005440	554401.502	6932000.907	103.056	-27.7352674	135.5519485	-0.4840717	0.2165850	-0.9681435	0.6787038	979123.728	979151.075	-27.347	31.803	-11.532	-7.076	-7.774	-3.318	-8.206	-3.750	-8.638	-4.182	-9.070	-4.614	-9.502
32805280	552797.510	6932798.077	100.865	-27.7281351	135.5356401	-0.4839473	0.2164825	-0.9678945	0.6784712	979120.771	979150.545	-29.774	31.127	-11.287	-9.934	-7.609	-6.256	-8.032	-6.679	-8.455	-7.101	-8.877	-7.524	-9.300
32805360	553597.230	6932804.482	114.786	-27.7280456	135.5437528	-0.4839457	0.2164812	-0.9678914	0.6784683	979118.952	979150.538	-31.586	35.423	-12.845	-9.008	-8.659	-4.822	-9.140	-5.303	-9.621	-5.785	-10.102	-6.266	-10.583
32805440	554394.124	6932803.109	115.235	-27.7280260	135.5518372	-0.4839453	0.2164809	-0.9678907	0.6784677	979119.791	979150.537	-30.746	35.562	-12.895	-8.079	-8.693	-3.877	-9.176	-4.360	-9.659	-4.843	-10.142	-5.326	-10.625
32805520	555197.414	6932802.434	103.364	-27.7279994	135.5599864	-0.4839449	0.2164805	-0.9678898	0.6784668	979123.139	979150.535	-27.396	31.898	-11.566	-7.064	-7.798	-3.295	-8.231	-3.728	-8.664	-4.162	-9.097	-4.595	-9.530
32805600	555997.421	6932804.510	108.817	-27.7279475	135.5681022	-0.4839440	0.2164798	-0.9678880	0.6784651	979122.477	979150.531	-28.054	33.581	-12.177	-6.650	-8.209	-2.682	-8.665	-3.138	-9.121	-3.594	-9.577	-4.050	-10.033
32805680	556794.142	6932801.038	114.451	-27.7279455	135.5761849	-0.4839439	0.2164797	-0.9678879	0.6784650	979121.777	979150.531	-28.754	35.320	-12.807	-6.241	-8.634	-2.068	-9.114	-2.548	-9.593	-3.027	-10.073	-3.507	-10.553
32805760	557591.534	6932802.828	112.751	-27.7278954	135.5842741	-0.4839431	0.2164790	-0.9678861	0.6784634	979122.737	979150.527	-27.790	34.795	-12.617	-5.612	-8.506	-1.501	-8.978	-1.973	-9.451	-2.446	-9.923	-2.918	-10.396
32805840	558389.941	6932800.286	106.515	-27.7278839	135.5923739	-0.4839429	0.2164789	-0.9678857	0.6784630	979124.699	979150.526	-25.827	32.871	-11.919	-4.876	-8.035	-0.992	-8.482	-1.438	-8.928	-1.885	-9.374	-2.331	-9.821

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
32805920	559179.623	6932801.487	98.530	-27.7278385	135.6003849	-0.4839421	0.2164782	-0.9678842	0.6784616	979126.773	979150.523	-23.750	36.406	-11.025	-4.369	-7.433	-0.776	-7.846	-1.189	-8.259	-1.602	-8.672	-2.015	-9.085
32806000	559999.980	6932801.666	113.385	-27.7278006	135.6087071	-0.4839414	0.2164777	-0.9678828	0.6784603	979122.786	979150.520	-27.734	34.991	-12.688	-5.431	-8.554	-1.297	-9.029	-1.772	-9.504	-2.247	-9.979	-2.722	-10.454
33605280	552799.745	6933603.492	107.090	-27.7208643	135.5356272	-0.4838204	0.2163779	-0.9676407	0.6782341	979118.891	979150.004	-31.113	33.048	-11.983	-10.049	-8.079	-6.144	-8.527	-6.593	-8.976	-7.041	-9.425	-7.490	-9.874
33605360	553593.334	6933602.302	119.756	-27.7208436	135.5436776	-0.4838200	0.2163777	-0.9676400	0.6782335	979116.824	979150.003	-33.179	36.957	-13.401	-9.623	-9.034	-5.256	-9.536	-5.758	-10.038	-6.260	-10.540	-6.762	-11.042
33605440	554397.248	6933601.977	112.973	-27.7208143	135.5518326	-0.4838195	0.2163772	-0.9676390	0.6782325	979119.103	979150.000	-30.897	34.863	-12.642	-8.676	-8.522	-4.556	-8.996	-5.030	-9.469	-5.503	-9.943	-5.977	-10.416
33605520	555197.459	6933604.528	111.477	-27.7207587	135.5599499	-0.4838185	0.2163764	-0.9676370	0.6782307	979119.673	979149.996	-30.323	34.402	-12.474	-8.396	-8.410	-4.331	-8.877	-4.798	-9.344	-5.265	-9.811	-5.733	-10.278
33605600	555999.890	6933600.795	131.172	-27.7207592	135.5680900	-0.4838185	0.2163764	-0.9676370	0.6782307	979115.290	979149.996	-34.706	40.480	-14.678	-8.905	-9.895	-4.122	-10.445	-4.672	-10.995	-5.221	-11.545	-5.771	-12.094
33605680	556794.496	6933598.773	119.999	-27.7207441	135.5761506	-0.4838183	0.2163762	-0.9676365	0.6782302	979118.516	979149.995	-31.479	37.032	-13.428	-7.875	-9.052	-3.500	-9.555	-4.003	-10.058	-4.506	-10.561	-5.009	-11.064
33605760	557593.719	6933606.233	130.442	-27.7206428	135.5842576	-0.4838165	0.2163748	-0.9676330	0.6782269	979117.039	979149.988	-32.949	40.254	-14.596	-7.291	-9.840	-2.535	-10.387	-3.081	-10.934	-3.628	-11.480	-4.175	-12.027
33605840	558395.256	6933598.459	126.243	-27.7206784	135.5923888	-0.4838171	0.2163753	-0.9676342	0.6782281	979119.107	979149.990	-30.883	38.959	-14.127	-6.051	-9.524	-1.448	-10.053	-1.977	-10.582	-2.506	-11.111	-3.036	-11.640
33605920	559201.791	6933605.132	102.777	-27.7205829	135.6005700	-0.4838154	0.2163739	-0.9676309	0.6782250	979125.242	979149.983	-24.741	31.717	-11.501	-4.525	-7.753	-0.778	-8.184	-1.208	-8.615	-1.639	-9.046	-2.070	-9.476
33606000	560002.980	6933606.317	100.736	-27.7205367	135.6086972	-0.4838146	0.2163732	-0.9676293	0.6782234	979125.298	979149.980	-24.682	31.087	-11.272	-4.867	-7.599	-1.194	-8.022	-1.616	-8.444	-2.038	-8.866	-2.461	-9.288
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
29604080	540801.493	6929603.936	97.574	-27.7573874	135.4140504	-0.4844578	0.2169031	-0.9689156	0.6794247	979106.223	979152.721	-46.498	30.111	-10.919	-27.305	-7.361	-23.747	-7.770	-24.156	-8.179	-24.565	-8.588	-24.974	-8.997
29604160	541592.737	6929596.640	97.106	-27.7574290	135.4220799	-0.4844585	0.2169037	-0.9689171	0.6794260	979108.205	979152.724	-44.519	29.967	-10.866	-25.418	-7.325	-21.878	-7.732	-22.285	-8.139	-22.692	-8.546	-23.099	-8.953
29604240	542397.353	6929598.039	97.993	-27.7573912	135.4302449	-0.4844579	0.2169032	-0.9689157	0.6794248	979109.338	979152.721	-43.383	30.241	-10.965	-24.108	-7.392	-20.535	-7.803	-20.946	-8.214	-21.356	-8.624	-21.767	-9.035
29604320	543199.551	6929599.051	94.626	-27.7573565	135.4383853	-0.4844573	0.2169027	-0.9689145	0.6794237	979110.176	979152.719	-42.543	29.202	-10.589	-23.930	-7.138	-20.479	-7.535	-20.876	-7.932	-21.273	-8.328	-21.669	-8.725
29604400	543996.603	6929599.719	94.202	-27.7573246	135.4464735	-0.4844567	0.2169022	-0.9689134	0.6794226	979109.999	979152.716	-42.717	29.071	-10.541	-24.188	-7.106	-20.753	-7.501	-21.148	-7.896	-21.543	-8.291	-21.937	-8.686
29604480	544799.243	6929599.908	95.382	-27.7572963	135.4546184	-0.4844562	0.2169018	-0.9689124	0.6794217	979109.653	979152.714	-43.061	29.435	-10.673	-24.299	-7.195	-20.822	-7.595	-21.221	-7.995	-21.621	-8.395	-22.021	-8.794
29604560	545600.933	6929600.489	97.035	-27.7572641	135.4627536	-0.4844557	0.2169014	-0.9689113	0.6794207	979109.881	979152.712	-42.831	29.945	-10.858	-23.744	-7.320	-20.206	-7.727	-20.613	-8.133	-21.019	-8.540	-21.426	-8.947
29604640	546396.764	6929598.494	93.087	-27.7572549	135.4708295	-0.4844555	0.2169012	-0.9689110	0.6794204	979111.623	979152.711	-41.088	28.727	-10.416	-22.778	-7.022	-19.384	-7.412	-19.774	-7.803	-20.164	-8.193	-20.554	-8.583
29604720	547203.034	6929599.573	92.383	-27.7572170	135.4790111	-0.4844548	0.2169007	-0.9689097	0.6794191	979113.338	979152.708	-39.370	28.509	-10.338	-21.198	-6.969	-17.830	-7.356	-18.217	-7.744	-18.604	-8.131	-18.992	-8.518
29604800	548000.286	6929597.173	94.642	-27.7572104	135.4871014	-0.4844547	0.2169006	-0.9689094	0.6794189	979114.982	979152.708	-37.726	29.207	-10.590	-19.110	-7.140	-15.659	-7.536	-16.055	-7.933	-16.452	-8.330	-16.849	-8.726
29604880	548795.983	6929601.854	94.824	-27.7571395	135.4951756	-0.4844535	0.2168996	-0.9689070	0.6794166	979117.390	979152.702	-35.312	29.263	-10.611	-16.661	-7.153	-13.203	-7.551	-13.601	-7.948	-13.998	-8.346	-14.395	-8.743
29604960	549595.693	6929600.872	95.508	-27.7571191	135.5032908	-0.4844531	0.2168993	-0.9689062	0.6794159	979119.731	979152.701	-32.970	29.474	-10.687	-14.184	-7.205	-10.701	-7.605	-11.101	-8.005	-11.502	-8.406	-11.902	-8.806
29605040	550400.483	6929602.705	95.324	-27.7570726	135.5114574	-0.4844523	0.2168986	-0.9689046	0.6794144	979121.911	979152.697	-30.786	29.417	-10.667	-12.036	-7.191	-8.561	-7.591	-8.960	-7.990	-9.360	-8.390	-9.759	-8.789
29605120	551192.542	6929600.782	95.056	-27.7570600	135.5194949	-0.4844521	0.2168984	-0.9689042	0.6794140	979123.791	979152.697	-28.906	29.334	-10.637	-10.208	-7.171	-6.742	-7.569	-7.140	-7.968	-7.539	-8.366	-7.937	-8.764
29605200	551999.578	6929593.066	92.942	-27.7570986	135.5276846	-0.4844528	0.2168990	-0.9689055	0.6794153	979125.824	979152.699	-26.875	28.682	-10.400	-8.594	-7.011	-5.205	-7.401	-5.594	-7.790	-5.984	-8.180	-6.373	-8.569
29605280	552788.668	6929596.976	92.368	-27.7570325	135.5356917	-0.4844516	0.2168980	-0.9689032	0.6794131	979127.793	979152.695	-24.902	28.505	-10.336	-6.733	-6.968	-3.365	-7.355	-3.752	-7.742	-4.139	-8.129	-4.526	-8.517
30404080	540806.910	6930400.447	98.952	-27.7501968	135.4140781	-0.4843323	0.2167997	-0.9686646	0.6791904	979105.803	979152.186	-46.383	30.537	-11.073	-26.919	-7.465	-23.311	-7.879	-23.726	-8.294	-24.140	-8.709	-24.555	-9.124
30404160	541600.626	6930401.414	99.743	-27.7501637	135.4221320	-0.4843317	0.2167992	-0.9686635	0.6791893	979107.435	979152.183	-44.748	30.781	-11.161	-25.129	-7.524	-21.492	-7.942	-21.910	-8.360	-22.328	-8.778	-22.746	-9.197
30404240	542404.111	6930399.737	99.391	-27.7501538	135.4302850	-0.4843316	0.2167991	-0.9686631	0.6791890	979108.496	979152.183	-43.687	30.672	-11.122	-24.136	-7.498	-20.512	-7.914	-20.929	-8.331	-21.346	-8.748	-21.762	-9.164
30404320	543192.096	6930402.000	98.955	-27.7501082	135.4382806	-0.4843308	0.2167984	-0.9686615	0.6791875	979108.492	979152.179	-43.687	30.538	-11.073	-24.223	-7.465	-20.615	-7.880	-21.029	-8.294	-21.444	-8.709	-21.859	-9.124
30404400	543996.847	6930399.078	97.894	-27.7501085	135.4464465	-0.4843308	0.2167984	-0.9686615	0.6791875	979108.360	979152.179	-43.819	30.210	-10.954	-24.564	-7.385	-20.994	-7.795	-21.404	-8.205	-21.815	-8.616	-22.225	-9.026
30404480	544802.358	6930400.806	97.692	-27.7500663	135.4546200	-0.4843300	0.2167978	-0.9686600	0.6791861	979108.460	979152.176	-43.716	30.148	-10.932	-24.500	-7.370	-20.938	-7.779	-21.348	-8.189	-21.757	-8.598	-22.166	-9.007
30404560	545603.389	6930397.380	97.230	-27.7500702	135.4627481	-0.4843301	0.2167979	-0.9686602	0.6791863	979109.238	979152.176	-42.938	30.005	-10.880	-23.813	-7.335	-20.268	-7.742	-20.676	-8.150	-21.083	-8.557	-21.491	-8.965
30404640	546400.859	6930398.468	96.637	-27.7500331	135.4708400	-0.4843294	0.2167974	-0.9686589	0.6791851	979110.308	979152.174	-41.866	29.822	-10.814	-22.857	-7.290	-19.334	-7.695	-19.739	-8.100	-20.144	-8.505	-20.549	-8.910
30404720	547201.177	6930400.461	96.193	-27.7499872	135.4789607	-0.4843286	0.2167967	-0.9686573	0.6791836	979111.995	979152.170	-40.175	29.685	-10.764	-21.254	-7.257	-17.747	-7.660	-18.150	-8.063	-18.553	-8.466	-18.956	-8.869
30404800	547993.447	6930401.735	96.160	-27.7499477	135.4869997	-0.4843280	0.2167961	-0.9686559	0.6791823	979113.954	979152.167	-38.213	29.675	-10.760	-19.299	-7.254	-15.792	-7.657	-16.195	-8.060	-16.598	-8.463	-17.001	-8.866
30404880	548797.003	6930401.441	95.388	-27.7499214	135.4951533	-0.4843275	0.2167958	-0.9686550	0.6791814	979116.500	979152.165	-35.665	29.437	-10.674	-16.903	-7.196	-13.425	-7.596	-13.824	-7.995	-14.224	-8.395	-14.624	-8.795
30404960	549599.152	6930400.131	94.712	-27.7499038	135.5032927	-0.4843272	0.2167955	-0.9686544	0.6791808	979118.798	979152.164	-33.366	29.228	-10.598	-14.736	-7.145	-11.283	-7.542	-11.680	-7.939	-12.077	-8.336	-12.474	-8.733
30405040	550397.536	6930399.725	92.877	-27.7498778	135.5113938	-0.4843267	0.2167951	-0.9686535	0.6791800	979121.208	979152.162	-30.954	28.662	-10.393	-12.685	-7.006	-9.299	-7.396	-9.688	-7.785	-10.077	-8.174	-10.466	-8.563
30405120	551197.159	6930397.370	93.252	-27.7498688	135.5195076	-0.4843266	0.2167950	-0.9686532	0.6791797	979122.881	979152.161	-29.280	28.778	-10.435	-10.938	-7.035	-7.538	-7.426	-7.928	-7.816	-8.319	-8.207	-8.710	-8.598
30405200	552001.312	6930398.140	93.464	-27.7498309	135.5276672	-0.4843259	0.2167944	-0.9686518	0.6791785	979124.621	979152.159	-27.538	28.843	-10.459	-9.153	-7.051	-5.745	-7.442	-6.137	-7.834	-6.529	-8.226	-6.921	-8.618
30405280	552797.466	6930396.196	92.695	-27.7498174	135.5357457	-0.4843257	0.2167943	-0.9686514	0.6791780	979126.403	979152.158	-25.755	28.606	-10.373	-7.522	-6.993	-4.142	-7.381	-4.530	-7.770	-4.919	-8.158	-5.307	-8.547
30405360	553597.928	6930399.232	94.266	-27.7497583	135.5438677	-0.4843246	0.2167934	-0.9686493	0.6791761	979127.224	979152.153	-24.929	29.090	-10.548	-6.387	-7.111	-2.950	-7.506	-3.345	-7.901	-3.740	-8.296	-4.135	-8.692
32804080	540801.138	6932800.343	101.955	-27.7285322	135.4139377	-0.4839542	0.2164882	-0.9679084	0.6784842	979102.273	979150.574	-48.301	31.463	-11.409	-28.247	-7.691	-24.529	-8.119	-24.957	-8.546	-25.384	-8.973	-25.811	-9.400
32804160	541596.391	6932796.498	101.114	-27.7285425	135.4220057	-0.4839544	0.2164883	-0.9679087	0.6784845	979103.494	979150.575	-47.081	31.204	-11.315	-27.192	-7.628	-23.505	-8.052	-23.929	-8.475	-24.353	-8.899	-24.776	-9.323
32804240	542400.713	6932800.495	102.670	-27.7284813	135.4301654	-0.4839533	0.2164874	-0.9679066	0.6784825	979104.338	979150.571	-46.233	31.684	-11.489	-26.037	-7.745	-22.294	-8.176	-22.724	-8.606	-23.154	-9.036	-23.585	-9.466
32804320	543203.465	6932802.758	102.170	-27.7284353	135.4383092	-0.4839525	0.2164868	-0.9679050	0.6784810	979105.545	979150.567	-45.022	31.530	-11.433	-24.925	-7.708	-21.200	-8.136	-21.628	-8.564	-22.056	-8.992	-22.485	-9.420
32804400	543998.789	6932800.765	102.869	-27.7284275	135.4463778	-0.4839524	0.2164867	-0.9679047	0.6784808	979106.104	979150.567	-44.463	31.745	-11.511	-24.228	-7.760	-20.477	-8.191	-20.909	-8.622	-21.340	-9.054	-21.771	-9.485
32804480	544800.498	6932798.345	103.087	-27.7284229	135.4545113	-0.4839523	0.2164866	-0.9679046	0.6784806	979106.870	979150.566	-43.696	31.813	-11.535	-23.419	-7.777	-19.660	-8.209	-20.092	-8.641	-20.524	-9.073	-20.956	-9.505
32804560	545593.844	6932798.975	103.795	-27.7283905	135.4625597	-0.4839517	0.2164861	-0.9679034	0.6784796	979107.845	979150.564	-42.719	32.031	-11.615	-22.302	-7.830	-18.518	-8.265	-18.953	-8.700	-19.388	-9.135	-19.823	-9.570
32804640	546398.825	6932799.327	101.115	-27.7283598	135.4707262	-0.4839512	0.2164857	-0.9679023	0.6784786	979109.735	979150.562	-40.827	31.204	-11.315	-20.937	-7.628	-17.250	-8.052	-17.674	-8.475	-18.098	-8.899	-18.522	-9.323
32804720	547197.812	6932798.890	100.956	-27.7283360	135.4788319	-0.4839508	0.2164854	-0.9679015	0.6784778	979111.282	979150.560	-39.278	31.155	-11.297	-19.420	-7.616	-15.739	-8.039	-16.162	-8.462	-16.585	-8.885	-17.008	-9.308
32804800	548000.920	6932800.418	99.243	-27.7282937	135.4869793	-0.4839500	0.2164847	-0.9679000	0.6784764	979113.009	979150.557	-37.548	30.626	-11.105	-18.026	-7.487	-14.408	-7.903	-14.824	-8.319	-15.240	-8.734	-15.656	-9.150
32804880	548795.180	6932802.749	98.689	-27.7282441	135.4950369	-0.4839492	0.2164840	-0.9678983	0.6784748	979114.236	979150.553	-36.317	30.455	-11.043	-16.905	-7.445	-13.306	-7.859	-13.720	-8.272	-14.134	-8.686	-14.547	-9.099
32804960	549599.438	6932799.395	103.649	-27.7282449	135.5031961	-0.4839492	0.2164840	-0.9678983	0.6784748	979114.319	979150.553	-36.234	31.986	-11.598	-15.846	-7.819	-12.067	-8.253	-12.501	-8.688	-12.936	-9.122	-13.370	-9.557
32805040	550393.169	6932802.370	104.736	-27.7281886	135.5112483	-0.4839482	0.2164832	-0.9678964	0.6784730	979115.410	979150.549	-35.139	32.322	-11.720	-14.537	-7.901	-10.718	-8.340	-11.157	-8.779	-11.596	-9.218	-12.035	-9.657
32805120	551194.000	6932798.657	102.872	-27.7281918	135.5193727	-0.4839482	0.2164833	-0.9678965	0.6784731	979117.258	979150.549	-33.291	31.746	-11.511	-13.056	-7.760	-9.305	-8.192	-9.736	-8.623	-10.167	-9.054	-10.599	-9.485
32805200	551992.426	6932799.888	100.970	-27.7281501	135.5274726	-0.4839475	0.2164827	-0.9678950	0.6784717	979119.451	979150.546	-31.095	31.159	-11.299	-11.234	-7.617	-7.553	-8.040	-7.976	-8.463	-8.399	-8.886	-8.822	-9.310
33604480	544799.363	6933601.422	105.802	-27.7211733	135.4544697	-0.4838257	0.2163824	-0.9676515	0.6782442	979106.276	979150.027	-43.751	32.650	-11.839	-22.940	-7.981	-19.082	-8.425	-19.526	-8.868	-19.969	-9.312	-20.412	-9.755
33604560	545607.416	6933600.353	108.197	-27.7211557	135.4626668	-0.4838254	0.2163821	-0.9676509	0.6782436	979106.935	979150.026	-43.091	33.390	-12.107	-21.808	-8.162	-17.863	-8.616	-18.317	-9.069	-18.770	-9.523	-19.224	-9.976
33604640	546399.610	6933600.198	105.527	-27.7211300	135.4707031	-0.4838250	0.2163818	-0.9676500	0.6782428	979108.967	979150.024	-41.057	32.566	-11.808	-20.300	-7.961	-16.452	-8.403	-16.894	-8.845	-17.337	-9.288	-17.779	-9.730
33604720	547196.440	6933602.403	104.672	-27.7210824	135.4787862	-0.4838242	0.2163811	-0.9676483	0.6782412	979110.861	979150.020	-39.159	32.302	-11.713	-18.570	-7.896	-14.754	-8.335	-15.193	-8.774	-15.631	-9.212	-16.070	-9.651
33604800	547999.460	6933598.870	102.147	-27.7210859	135.4869324	-0.4838242	0.2163811	-0.9676484	0.6782414	979112.563	979150.021	-37.458	31.523	-11.430	-17.365	-7.706	-13.641	-8.134	-14.069	-8.562	-14.497	-8.990	-14.925	-9.418
33604880	548797.041	6933597.187	103.519	-27.7210724	135.4950233	-0.4838240	0.2163809	-0.9676480	0.6782409	979112.795	979150.020	-37.225	31.946	-11.584	-16.862	-7.809	-13.088	-8.243	-13.522	-8.677	-13.956	-9.111	-14.389	-9.545
33604960	549598.625	6933601.754	114.743	-27.7210018	135.5031546	-0.4838228	0.2163799	-0.9676455	0.6782386	979111.202	979150.014	-38.812	35.410	-12.840	-16.242	-8.656	-12.059	-9.137	-12.540	-9.618	-13.020	-10.099	-13.501	-10.580
33605040	550402.925	6933601.175	107.674	-27.7209772	135.5113136	-0.4838223	0.2163796	-0.9676446	0.6782378	979114.060	979150.013	-35.953	33.228	-12.049	-14.773	-8.123	-10.847	-8.574	-11.298	-9.025	-11.750	-9.476	-12.201	-9.928
33605120	551190.991	6933599.712	105.405	-27.7209606	135.5193079	-0.4838220	0.2163793	-0.9676441	0.6782373	979116.017	979150.011	-33.994	32.528	-11.795	-13.261	-7.952	-9.418	-8.393	-9.860	-8.835	-10.301	-9.277	-10.743	-9.719
33605200	551994.044	6933595.120	108.576	-27.7209713	135.5274545	-0.4838222	0.2163795	-0.9676444	0.6782376	979117.518	979150.012	-32.494	33.507	-12.150	-11.137	-8.191	-7.178	-8.646	-7.633	-9.101	-8.088	-9.556	-8.543	-10.011
33605280	552799.549	6933603.533	107.095	-27.7208639	135.5356253	-0.4838203	0.2163779	-0.9676407	0.6782341	979118.929	979150.004	-31.075	33.050	-11.984	-10.010	-8.079	-6.105	-8.528	-6.553	-8.977	-7.002	-9.426	-7.451	-9.874
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
27204080	540806.762	6927200.453	94.298	-27.7790843	135.4141860	-0.4848365	0.2172154	-0.9696730	0.6801314	979107.113	979154.336	-47.223	29.100	-10.552	-28.675	-7.114	-25.236	-7.509	-25.631	-7.904	-26.027	-8.299	-26.422	-8.694
27204160	541600.771	6927199.893	94.630	-27.7790650	135.4222450	-0.4848361	0.2172151	-0.9696723	0.6801308	979107.678	979154.335	-46.657	29.203	-10.589	-28.043	-7.139	-24.592	-7.535	-24.989	-7.932	-25.386	-8.328	-25.782	-8.725
27204240	542407.930	6927196.426	94.105	-27.7790710	135.4304375	-0.4848363	0.2172152	-0.9696725	0.6801310	979108.832	979154.335	-45.503	29.041	-10.530	-26.993	-7.099	-23.561	-7.493	-23.956	-7.888	-24.350	-8.282	-24.744	-8.677
27204320	543197.479	6927196.453	93.851	-27.7790456	135.4384512	-0.4848358	0.2172148	-0.9696716	0.6801301	979109.760	979154.333	-44.573	28.962	-10.502	-26.113	-7.080	-22.691	-7.473	-23.084	-7.867	-23.477	-8.260	-23.871	-8.653
27204400	544002.028	6927199.628	92.844	-27.7789908	135.4466170	-0.4848349	0.2172140	-0.9696697	0.6801284	979110.606	979154.329	-43.723	28.652	-10.389	-25.461	-7.004	-22.075	-7.393	-22.464	-7.782	-22.854	-8.171	-23.243	-8.560
27204480	544800.232	6927202.311	90.375	-27.7789402	135.4547184	-0.4848340	0.2172133	-0.9696679	0.6801267	979111.831	979154.325	-42.494	27.890	-10.113	-24.717	-6.818	-21.422	-7.196	-21.801	-7.575	-22.180	-7.954	-22.559	-8.333
27204560	545597.376	6927200.369	88.777	-27.7789308	135.4628092	-0.4848338	0.2172132	-0.9696676	0.6801264	979113.076	979154.325	-41.249	27.397	-9.934	-23.786	-6.697	-20.549	-7.069	-20.921	-7.441	-21.293	-7.813	-21.665	-8.185
27204640	546404.114	6927200.328	87.286	-27.7789036	135.4709973	-0.4848333	0.2172128	-0.9696667	0.6801255	979114.916	979154.323	-39.407	26.936	-9.767	-22.237	-6.585	-19.055	-6.950	-19.421	-7.316	-19.786	-7.682	-20.152	-8.048

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
27204720	547194.552	6927198.312	86.301	-27.7788942	135.4790200	-0.4848332	0.2172126	-0.9696663	0.6801252	979117.330	979154.322	-36.992	26.632	-9.657	-20.016	-6.510	-16.870	-6.872	-17.231	-7.234	-17.593	-7.595	-17.955	-7.957
27204800	548001.169	6927201.083	85.878	-27.7788406	135.4872067	-0.4848322	0.2172119	-0.9696645	0.6801235	979120.104	979154.318	-34.214	26.502	-9.610	-17.322	-6.478	-14.190	-6.838	-14.550	-7.198	-14.910	-7.558	-15.270	-7.918
27204880	548797.567	6927199.105	88.947	-27.7788297	135.4952899	-0.4848320	0.2172117	-0.9696641	0.6801231	979121.948	979154.317	-32.369	27.449	-9.953	-14.873	-6.710	-11.630	-7.083	-12.003	-7.456	-12.376	-7.828	-12.748	-8.201
27204960	549597.354	6927198.117	87.701	-27.7788093	135.5034075	-0.4848317	0.2172114	-0.9696634	0.6801225	979124.502	979154.316	-29.814	27.065	-9.814	-12.563	-6.616	-9.365	-6.984	-9.733	-7.351	-10.100	-7.719	-10.468	-8.086
27205040	550397.245	6927197.423	92.460	-27.7787857	135.5115260	-0.4848313	0.2172111	-0.9696625	0.6801217	979125.835	979154.314	-28.479	28.533	-10.346	-10.292	-6.975	-6.921	-7.362	-7.308	-7.750	-7.696	-8.137	-8.083	-8.525
28004080	540810.930	6927992.992	96.091	-27.7719297	135.4142012	-0.4847116	0.2171124	-0.9694232	0.6798984	979106.417	979153.803	-47.386	29.654	-10.753	-28.485	-7.249	-24.982	-7.652	-25.384	-8.054	-25.787	-8.457	-26.190	-8.860
28004160	541606.047	6927999.733	95.175	-27.7718444	135.4222706	-0.4847101	0.2171112	-0.9694202	0.6798956	979107.761	979153.797	-46.036	29.371	-10.650	-27.315	-7.180	-23.845	-7.579	-24.244	-7.978	-24.643	-8.376	-25.041	-8.775
28004240	542398.477	6928000.002	94.752	-27.7718172	135.4303130	-0.4847096	0.2171108	-0.9694193	0.6798947	979109.375	979153.795	-44.420	29.240	-10.603	-25.782	-7.148	-22.327	-7.545	-22.724	-7.942	-23.122	-8.339	-23.519	-8.736
28004320	543200.628	6927998.728	94.226	-27.7718031	135.4384541	-0.4847094	0.2171106	-0.9694188	0.6798943	979110.178	979153.794	-43.616	29.078	-10.544	-25.082	-7.108	-21.646	-7.503	-22.041	-7.898	-22.436	-8.293	-22.831	-8.688
28004400	543993.941	6927997.046	91.032	-27.7717925	135.4465055	-0.4847092	0.2171104	-0.9694184	0.6798939	979111.085	979153.793	-42.708	28.092	-10.186	-24.802	-6.867	-21.483	-7.249	-21.864	-7.630	-22.246	-8.012	-22.627	-8.393
28004480	544792.010	6928017.578	90.257	-27.7715808	135.4546043	-0.4847055	0.2171074	-0.9694110	0.6798870	979111.754	979153.777	-42.023	27.853	-10.100	-24.270	-6.809	-20.979	-7.187	-21.357	-7.565	-21.735	-7.944	-22.114	-8.322
28004560	545596.940	6928002.055	90.604	-27.7716938	135.4627741	-0.4847075	0.2171090	-0.9694150	0.6798907	979112.661	979153.786	-41.125	27.960	-10.139	-23.303	-6.835	-19.999	-7.215	-20.379	-7.594	-20.759	-7.974	-21.139	-8.354
28004640	546396.903	6928002.479	88.630	-27.7716626	135.4708929	-0.4847070	0.2171086	-0.9694139	0.6798897	979114.151	979153.783	-39.632	27.351	-9.918	-22.199	-6.686	-18.967	-7.058	-19.339	-7.429	-19.710	-7.800	-20.082	-8.172
28004720	547199.199	6928000.994	89.381	-27.7716480	135.4790354	-0.4847067	0.2171083	-0.9694134	0.6798892	979115.789	979153.782	-37.993	27.583	-10.002	-20.412	-6.743	-17.153	-7.117	-17.528	-7.492	-17.902	-7.867	-18.277	-8.241
28004800	547997.610	6927998.848	88.369	-27.7716390	135.4871385	-0.4847065	0.2171082	-0.9694131	0.6798889	979118.475	979153.782	-35.307	27.271	-9.888	-17.924	-6.666	-14.702	-7.037	-15.073	-7.407	-15.443	-7.777	-15.813	-8.148
28004880	548795.629	6927998.727	89.375	-27.7716114	135.4952376	-0.4847061	0.2171078	-0.9694121	0.6798880	979120.781	979153.780	-32.999	27.581	-10.001	-15.419	-6.742	-12.160	-7.117	-12.534	-7.491	-12.909	-7.866	-13.283	-8.241
28004960	549599.059	6928000.564	92.755	-27.7715653	135.5033914	-0.4847053	0.2171072	-0.9694105	0.6798865	979122.403	979153.776	-31.373	28.624	-10.379	-13.128	-6.997	-9.746	-7.386	-10.135	-7.775	-10.524	-8.163	-10.912	-8.552
28005040	550390.329	6928000.226	97.302	-27.7715389	135.5114219	-0.4847048	0.2171068	-0.9694096	0.6798857	979123.783	979153.774	-29.991	30.027	-10.888	-10.852	-7.340	-7.304	-7.748	-7.712	-8.156	-8.120	-8.564	-8.527	-8.971
28804080	540798.349	6928799.908	96.507	-27.7646457	135.4140459	-0.4845845	0.2170076	-0.9691690	0.6796612	979106.350	979153.261	-46.911	29.782	-10.799	-27.928	-7.280	-24.409	-7.685	-24.814	-8.089	-25.218	-8.494	-25.623	-8.898
28804160	541600.467	6928799.182	96.226	-27.7646277	135.4221861	-0.4845842	0.2170073	-0.9691683	0.6796606	979107.972	979153.260	-45.288	29.695	-10.768	-26.360	-7.259	-22.852	-7.662	-23.255	-8.066	-23.658	-8.469	-24.061	-8.872
28804240	542393.796	6928800.862	95.804	-27.7645877	135.4302371	-0.4845835	0.2170067	-0.9691669	0.6796593	979109.678	979153.257	-43.579	29.565	-10.720	-24.734	-7.227	-21.241	-7.629	-21.642	-8.030	-22.044	-8.432	-22.445	-8.833
28804320	543200.398	6928800.337	94.001	-27.7645667	135.4384228	-0.4845831	0.2170064	-0.9691662	0.6796586	979110.436	979153.255	-42.819	29.009	-10.519	-24.329	-7.091	-20.902	-7.485	-21.296	-7.879	-21.690	-8.273	-22.084	-8.667
28804400	543999.889	6928797.187	92.760	-27.7645692	135.4465364	-0.4845831	0.2170065	-0.9691663	0.6796587	979110.652	979153.255	-42.603	28.626	-10.380	-24.358	-6.998	-20.975	-7.386	-21.364	-7.775	-21.753	-8.164	-22.142	-8.553
28804480	544796.489	6928798.543	93.031	-27.7645306	135.4546205	-0.4845825	0.2170059	-0.9691649	0.6796574	979110.852	979153.253	-42.401	28.709	-10.410	-24.101	-7.018	-20.709	-7.408	-21.099	-7.798	-21.489	-8.188	-21.879	-8.578
28804560	545595.801	6928799.945	94.128	-27.7644910	135.4627321	-0.4845818	0.2170054	-0.9691636	0.6796561	979111.393	979153.250	-41.857	29.048	-10.533	-23.342	-7.101	-19.910	-7.495	-20.304	-7.890	-20.699	-8.284	-21.093	-8.679
28804640	546401.803	6928802.528	90.659	-27.7644401	135.4709115	-0.4845809	0.2170046	-0.9691618	0.6796545	979112.986	979153.246	-40.260	27.977	-10.145	-22.427	-6.839	-19.122	-7.219	-19.502	-7.599	-19.881	-7.979	-20.261	-8.359
28804720	547197.096	6928799.453	91.839	-27.7644401	135.4789825	-0.4845809	0.2170046	-0.9691618	0.6796545	979114.258	979153.246	-38.988	28.342	-10.277	-20.923	-6.928	-17.574	-7.313	-17.959	-7.698	-18.344	-8.083	-18.729	-8.468
28804800	547992.676	6928798.125	97.494	-27.7644239	135.4870563	-0.4845806	0.2170044	-0.9691612	0.6796539	979115.309	979153.245	-37.936	30.087	-10.910	-18.759	-7.355	-15.204	-7.763	-15.612	-8.172	-16.021	-8.581	-16.430	-8.989
28804880	548795.794	6928799.329	97.822	-27.7643841	135.4952065	-0.4845799	0.2170038	-0.9691598	0.6796526	979117.720	979153.242	-35.522	30.188	-10.946	-16.280	-7.379	-12.713	-7.789	-13.123	-8.199	-13.533	-8.609	-13.943	-9.019
28804960	549590.109	6928798.493	99.426	-27.7643626	135.5032674	-0.4845795	0.2170035	-0.9691591	0.6796519	979119.996	979153.240	-33.244	30.683	-11.126	-13.687	-7.500	-10.062	-7.917	-10.478	-8.334	-10.895	-8.751	-11.312	-9.167
28805040	550399.982	6928798.076	97.034	-27.7643362	135.5114862	-0.4845791	0.2170031	-0.9691582	0.6796511	979122.941	979153.238	-30.297	29.945	-10.858	-11.210	-7.320	-7.672	-7.727	-8.079	-8.133	-8.486	-8.540	-8.892	-8.947
28805120	551198.074	6928796.919	94.972	-27.7643164	135.5195855	-0.4845787	0.2170028	-0.9691575	0.6796504	979125.208	979153.237	-28.029	29.308	-10.627	-9.348	-7.164	-5.885	-7.563	-6.283	-7.961	-6.681	-8.359	-7.079	-8.757
29605200	552000.294	6929593.574	92.959	-27.7570940	135.5276919	-0.4844527	0.2168989	-0.9689054	0.6794151	979125.842	979152.699	-26.857	28.687	-10.402	-8.572	-7.013	-5.183	-7.402	-5.572	-7.792	-5.962	-8.181	-6.351	-8.571
33605680	556795.022	6933598.729	120.008	-27.7207445	135.5761560	-0.4838183	0.2163762	-0.9676365	0.6782302	979118.496	979149.995	-31.499	37.034	-13.429	-7.894	-9.053	-3.518	-9.556	-4.021	-10.059	-4.524	-10.562	-5.027	-11.065
34405200	552017.080	6934405.598	115.944	-27.7136539	135.5276529	-0.4836945	0.2162743	-0.9673890	0.6779990	979114.602	979149.468	-34.866	35.780	-12.974	-12.060	-8.747	-7.832	-9.233	-8.318	-9.718	-8.804	-10.204	-9.290	-10.690
34405280	552800.030	6934402.346	113.967	-27.7136528	135.5355949	-0.4836945	0.2162743	-0.9673890	0.6779989	979116.132	979149.468	-33.336	35.170	-12.753	-10.919	-8.597	-6.763	-9.075	-7.241	-9.553	-7.719	-10.030	-8.196	-10.508
34405360	553595.557	6934400.695	124.596	-27.7136363	135.5436644	-0.4836942	0.2162741	-0.9673884	0.6779984	979114.127	979149.467	-35.340	38.450	-13.942	-10.832	-9.399	-6.289	-9.921	-6.811	-10.444	-7.333	-10.966	-7.855	-11.488
34405440	554396.580	6934402.238	121.501	-27.7135902	135.5517894	-0.4836934	0.2162734	-0.9673868	0.6779969	979115.449	979149.463	-34.014	37.495	-13.596	-10.115	-9.166	-5.685	-9.675	-6.194	-10.184	-6.703	-10.693	-7.213	-11.203
34405520	555199.705	6934397.870	118.536	-27.7135969	135.5599361	-0.4836935	0.2162735	-0.9673870	0.6779971	979116.435	979149.464	-33.029	36.580	-13.264	-9.713	-8.942	-5.391	-9.439	-5.888	-9.936	-6.384	-10.432	-6.881	-10.929
34405600	556013.479	6934397.641	118.085	-27.7135653	135.5681906	-0.4836930	0.2162730	-0.9673859	0.6779961	979117.400	979149.462	-32.062	36.441	-13.214	-8.834	-8.908	-4.529	-9.403	-5.023	-9.898	-5.518	-10.393	-6.013	-10.888
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
25605120	551199.875	6925598.785	89.807	-27.7931866	135.5197410	-0.4850826	0.2174184	-0.9701652	0.6805905	979130.669	979155.386	-24.717	27.714	-10.049	-7.052	-6.775	-3.778	-7.151	-4.154	-7.528	-4.530	-7.904	-4.907	-8.280
25605200	551999.976	6925603.903	89.907	-27.7931096	135.5278625	-0.4850813	0.2174173	-0.9701625	0.6805880	979132.122	979155.380	-23.258	27.745	-10.061	-5.574	-6.782	-2.296	-7.159	-2.672	-7.536	-3.049	-7.913	-3.426	-8.290
25605280	552797.540	6925599.085	89.811	-27.7931219	135.5359586	-0.4850815	0.2174175	-0.9701630	0.6805884	979132.613	979155.381	-22.768	27.716	-10.050	-5.103	-6.775	-1.828	-7.152	-2.204	-7.528	-2.581	-7.904	-2.957	-8.281
25605360	553595.729	6925598.750	90.282	-27.7930933	135.5440609	-0.4850810	0.2174170	-0.9701620	0.6805875	979132.801	979155.379	-22.578	27.861	-10.103	-4.820	-6.811	-1.528	-7.189	-1.906	-7.567	-2.285	-7.946	-2.663	-8.324
25605440	554391.562	6925600.603	91.272	-27.7930445	135.5521392	-0.4850801	0.2174163	-0.9701603	0.6805859	979132.546	979155.376	-22.830	28.167	-10.213	-4.876	-6.885	-1.548	-7.268	-1.931	-7.650	-2.313	-8.033	-2.696	-8.415
25605520	555195.175	6925599.931	89.964	-27.7930177	135.5602965	-0.4850797	0.2174160	-0.9701593	0.6805850	979132.565	979155.374	-22.809	27.763	-10.067	-5.113	-6.787	-1.832	-7.164	-2.209	-7.541	-2.586	-7.918	-2.964	-8.295
25605600	555999.668	6925602.369	86.616	-27.7929624	135.5684627	-0.4850787	0.2174152	-0.9701574	0.6805832	979133.081	979155.369	-22.288	26.730	-9.692	-5.251	-6.534	-2.093	-6.897	-2.456	-7.260	-2.819	-7.623	-3.182	-7.986
25605680	556784.544	6925598.770	81.526	-27.7929618	135.5764299	-0.4850787	0.2174152	-0.9701574	0.6805832	979134.261	979155.369	-21.108	25.159	-9.123	-5.072	-6.150	-2.100	-6.492	-2.441	-6.834	-2.783	-7.175	-3.125	-7.517
25605760	557588.611	6925601.307	86.580	-27.7929046	135.5845917	-0.4850777	0.2174143	-0.9701554	0.6805813	979133.027	979155.365	-22.338	26.719	-9.688	-5.308	-6.531	-2.151	-6.894	-2.514	-7.257	-2.877	-7.620	-3.240	-7.983
25605840	558387.836	6925599.103	82.974	-27.7928900	135.5927045	-0.4850774	0.2174141	-0.9701549	0.6805809	979133.398	979155.364	-21.966	25.606	-9.285	-5.645	-6.259	-2.620	-6.607	-2.967	-6.955	-3.315	-7.303	-3.663	-7.650
25605920	559183.751	6925596.774	87.432	-27.7928761	135.6007837	-0.4850772	0.2174139	-0.9701544	0.6805804	979131.829	979155.363	-23.534	26.982	-9.784	-6.336	-6.596	-3.148	-6.962	-3.515	-7.329	-3.881	-7.695	-4.248	-8.061
25606000	559990.092	6925600.775	81.886	-27.7928042	135.6089684	-0.4850759	0.2174129	-0.9701519	0.6805781	979132.246	979155.358	-23.112	25.270	-9.163	-7.005	-6.177	-4.019	-6.521	-4.362	-6.864	-4.705	-7.207	-5.049	-7.550
26405120	551198.237	6926399.262	90.857	-27.7859606	135.5196900	-0.4849565	0.2173144	-0.9699130	0.6803553	979129.829	979154.848	-25.019	28.038	-10.167	-7.147	-6.854	-3.835	-7.235	-4.215	-7.616	-4.596	-7.996	-4.977	-8.377
26405200	551999.490	6926396.438	93.405	-27.7859552	135.5278230	-0.4849564	0.2173143	-0.9699128	0.6803551	979130.356	979154.848	-24.492	28.825	-10.452	-6.119	-7.046	-2.713	-7.438	-3.105	-7.829	-3.496	-8.221	-3.888	-8.612
26405280	552798.187	6926403.560	96.619	-27.7858597	135.5359296	-0.4849547	0.2173129	-0.9699095	0.6803520	979130.129	979154.841	-24.712	29.817	-10.812	-5.707	-7.289	-2.184	-7.694	-2.589	-8.099	-2.993	-8.504	-3.398	-8.908
26405360	553592.488	6926400.676	100.270	-27.7858543	135.5439920	-0.4849546	0.2173128	-0.9699093	0.6803518	979129.731	979154.840	-25.109	30.943	-11.220	-5.386	-7.564	-1.730	-7.984	-2.150	-8.405	-2.570	-8.825	-2.991	-9.245
26405440	554397.118	6926397.100	98.274	-27.7858542	135.5521593	-0.4849546	0.2173128	-0.9699093	0.6803518	979130.501	979154.840	-24.339	30.327	-10.997	-5.009	-7.414	-1.425	-7.825	-1.837	-8.237	-2.249	-8.649	-2.661	-9.061
26405520	555196.349	6926403.725	94.254	-27.7857617	135.5602713	-0.4849530	0.2173115	-0.9699061	0.6803488	979131.439	979154.833	-23.394	29.087	-10.547	-4.854	-7.110	-1.418	-7.505	-1.813	-7.900	-2.208	-8.295	-2.603	-8.690
26405600	556000.861	6926397.864	90.291	-27.7857813	135.5684374	-0.4849534	0.2173118	-0.9699067	0.6803495	979132.241	979154.835	-22.594	27.864	-10.104	-4.833	-6.811	-1.541	-7.190	-1.920	-7.568	-2.298	-7.947	-2.676	-8.325
26405680	556791.008	6926399.244	87.032	-27.7857356	135.5764574	-0.4849526	0.2173111	-0.9699051	0.6803480	979133.159	979154.831	-21.672	26.858	-9.739	-4.553	-6.566	-1.380	-6.930	-1.744	-7.295	-2.109	-7.660	-2.474	-8.025
26405760	557605.459	6926404.223	80.972	-27.7856559	135.5847239	-0.4849512	0.2173100	-0.9699024	0.6803454	979134.369	979154.825	-20.456	24.988	-9.061	-4.529	-6.108	-1.577	-6.448	-1.916	-6.787	-2.255	-7.126	-2.595	-7.466
26405840	558395.182	6926394.286	87.871	-27.7857115	135.5927401	-0.4849522	0.2173108	-0.9699043	0.6803472	979132.211	979154.829	-22.618	27.117	-9.833	-5.334	-6.629	-2.130	-6.997	-2.499	-7.365	-2.867	-7.734	-3.235	-8.102
26405920	559200.163	6926395.477	87.804	-27.7856654	135.6009107	-0.4849513	0.2173101	-0.9699027	0.6803457	979131.540	979154.826	-23.286	27.096	-9.825	-6.015	-6.624	-2.813	-6.992	-3.181	-7.360	-3.549	-7.728	-3.917	-8.096
26406000	559999.127	6926406.273	82.789	-27.7855325	135.6090196	-0.4849490	0.2173082	-0.9698981	0.6803414	979131.716	979154.816	-23.100	25.549	-9.264	-6.816	-6.245	-3.797	-6.592	-4.144	-6.939	-4.491	-7.286	-4.838	-7.633
27205120	551194.550	6927201.133	98.810	-27.7787221	135.5196181	-0.4848302	0.2172102	-0.9696603	0.6801196	979126.599	979154.309	-27.710	30.493	-11.057	-8.274	-7.454	-4.671	-7.868	-5.085	-8.282	-5.500	-8.696	-5.914	-9.110
27205200	551996.423	6927200.610	101.080	-27.7786959	135.5277568	-0.4848297	0.2172098	-0.9696594	0.6801188	979127.222	979154.307	-27.085	31.193	-11.311	-7.203	-7.625	-3.517	-8.049	-3.941	-8.473	-4.364	-8.896	-4.788	-9.320
27205280	552797.055	6927198.793	99.258	-27.7786811	135.5358829	-0.4848294	0.2172096	-0.9696589	0.6801183	979128.517	979154.306	-25.789	30.631	-11.107	-6.265	-7.488	-2.646	-7.904	-3.062	-8.320	-3.478	-8.736	-3.894	-9.152
27205360	553595.649	6927203.475	93.981	-27.7786071	135.5439880	-0.4848282	0.2172085	-0.9696563	0.6801159	979130.628	979154.300	-23.672	29.003	-10.516	-5.186	-7.090	-1.760	-7.484	-2.154	-7.877	-2.547	-8.271	-2.941	-8.665
27205440	554387.422	6927196.395	90.422	-27.7786392	135.5520244	-0.4848287	0.2172090	-0.9696574	0.6801169	979132.103	979154.303	-22.200	27.904	-10.118	-4.414	-6.821	-1.117	-7.200	-1.496	-7.579	-1.875	-7.958	-2.254	-8.337
27205520	555191.494	6927198.232	90.322	-27.7785898	135.5601852	-0.4848279	0.2172082	-0.9696557	0.6801153	979132.487	979154.299	-21.812	27.873	-10.107	-4.046	-6.814	-0.753	-7.192	-1.131	-7.571	-1.510	-7.949	-1.888	-8.328
27205600	555999.288	6927199.711	83.962	-27.7785430	135.5683838	-0.4848270	0.2172076	-0.9696541	0.6801138	979134.037	979154.296	-20.259	25.911	-9.395	-3.743	-6.334	-0.682	-6.686	-1.034	-7.038	-1.386	-7.390	-1.738	-7.741
27205680	556796.265	6927200.487	82.807	-27.7785025	135.5764726	-0.4848263	0.2172070	-0.9696527	0.6801125	979134.327	979154.293	-19.966	25.554	-9.266	-3.678	-6.247	-0.658	-6.594	-1.005	-6.941	-1.352	-7.288	-1.699	-7.635
27205760	557599.997	6927197.458	87.284	-27.7784955	135.5846302	-0.4848262	0.2172069	-0.9696524	0.6801122	979132.899	979154.292	-21.393	26.936	-9.767	-4.224	-6.585	-1.042	-6.950	-1.408	-7.316	-1.773	-7.682	-2.139	-8.048
27205840	558388.424	6927198.022	89.585	-27.7784564	135.5926322	-0.4848255	0.2172063	-0.9696510	0.6801110	979131.681	979154.289	-22.608	27.646	-10.025	-4.987	-6.758	-1.720	-7.134	-2.096	-7.509	-2.471	-7.884	-2.847	-8.260
27205920	559191.374	6927198.387	90.984	-27.7784179	135.6007816	-0.4848249	0.2172058	-0.9696497	0.6801097	979130.499	979154.286	-23.787	28.078	-10.181	-5.891	-6.864	-2.573	-7.245	-2.955	-7.626	-3.336	-8.008	-3.717	-8.389
27206000	559987.492	6927193.779	84.615	-27.7784241	135.6088619	-0.4848250	0.2172059	-0.9696499	0.6801099	979131.038	979154.287	-23.249	26.112	-9.468	-6.605	-6.383	-3.520	-6.738	-3.874	-7.092	-4.229	-7.447	-4.584	-7.802
28005120	551195.831	6928000.275	99.452	-27.7715080	135.5195969	-0.4847043	0.2171063	-0.9694085	0.6798847	979125.413	979153.772	-28.359	30.691	-11.129	-8.797	-7.502	-5.171	-7.919	-5.587	-8.336	-6.004	-8.753	-6.421	-9.170
28005200	551993.797	6927997.676	95.133	-27.7715008	135.5276954	-0.4847041	0.2171062	-0.9694083	0.6798844	979127.571	979153.771	-26.200	29.358	-10.645	-7.488	-7.177	-4.019	-7.575	-4.418	-7.974	-4.816	-8.373	-5.215	-8.771
28005280	552790.268	6927998.070	92.969	-27.7714661	135.5357787	-0.4847035	0.2171057	-0.9694070	0.6798833	979129.446	979153.769	-24.323	28.690	-10.403	-6.036	-7.013	-2.646	-7.403	-3.036	-7.793	-3.425	-8.182	-3.815	-8.572
28005360	553595.817	6927999.966	93.332	-27.7714171	135.5439540	-0.4847027	0.2171050	-0.9694053	0.6798817	979130.120	979153.765	-23.645	28.802	-10.444	-5.287	-7.041	-1.884	-7.432	-2.275	-7.823	-2.666	-8.214	-3.057	-8.605
28005440	554406.051	6927987.072	86.647	-27.7715009	135.5521774	-0.4847041	0.2171062	-0.9694083	0.6798844	979132.494	979153.771	-21.277	26.739	-9.696	-4.234	-6.536	-1.075	-6.900	-1.438	-7.263	-1.801	-7.626	-2.164	-7.989
28005520	555193.015	6928000.548	91.067	-27.7713471	135.5601636	-0.4847014	0.2171040	-0.9694029	0.6798794	979132.281	979153.760	-21.479	28.103	-10.190	-3.566	-6.870	-0.246	-7.252	-0.627	-7.633	-1.009	-8.015	-1.391	-8.397
28005600	555995.673	6927998.314	90.094	-27.7713340	135.5683097	-0.4847012	0.2171038	-0.9694024	0.6798790	979132.713	979153.759	-21.046	27.803	-10.081	-3.324	-6.797	-0.039	-7.174	-0.417	-7.552	-0.795	-7.929	-1.172	-8.307

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
28005680	556796.892	6928000.535	87.249	-27.7712803	135.5764409	-0.4847003	0.2171030	-0.9694006	0.6798773	979133.301	979153.755	-20.454	26.925	-9.763	-3.292	-6.582	-0.111	-6.948	-0.476	-7.313	-0.842	-7.679	-1.208	-8.045
28005760	557590.477	6928000.469	85.893	-27.7712471	135.5844948	-0.4846997	0.2171026	-0.9693994	0.6798762	979132.919	979153.753	-20.834	26.507	-9.611	-3.938	-6.480	-0.807	-6.840	-1.167	-7.200	-1.526	-7.560	-1.886	-7.920
28005840	558393.263	6927999.054	91.756	-27.7712252	135.5926421	-0.4846993	0.2171023	-0.9693986	0.6798755	979130.795	979153.751	-22.956	28.316	-10.267	-4.907	-6.922	-1.562	-7.306	-1.946	-7.691	-2.331	-8.076	-2.716	-8.460
28005920	559191.159	6927999.371	95.110	-27.7711873	135.6007397	-0.4846987	0.2171017	-0.9693973	0.6798742	979129.200	979153.748	-24.548	29.351	-10.643	-5.840	-7.175	-2.372	-7.574	-2.771	-7.972	-3.169	-8.371	-3.568	-8.769
28006000	559992.618	6928004.696	90.101	-27.7711037	135.6088732	-0.4846972	0.2171005	-0.9693944	0.6798715	979129.441	979153.742	-24.301	27.805	-10.082	-6.578	-6.797	-3.293	-7.175	-3.670	-7.552	-4.048	-7.930	-4.426	-8.307
28805200	551991.681	6928802.597	94.828	-27.7642346	135.5276389	-0.4845773	0.2170017	-0.9691546	0.6796478	979126.681	979153.231	-26.550	29.264	-10.611	-7.897	-7.154	-4.439	-7.551	-4.837	-7.948	-5.234	-8.346	-5.632	-8.743
28805280	552799.323	6928801.035	92.667	-27.7642172	135.5358351	-0.4845770	0.2170014	-0.9691540	0.6796472	979128.820	979153.229	-24.409	28.597	-10.369	-6.182	-6.991	-2.803	-7.379	-3.191	-7.767	-3.580	-8.156	-3.968	-8.544
28805360	553593.292	6928795.854	88.391	-27.7642325	135.5438926	-0.4845773	0.2170016	-0.9691545	0.6796477	979130.607	979153.230	-22.623	27.277	-9.891	-5.237	-6.668	-2.014	-7.038	-2.384	-7.409	-2.755	-7.779	-3.125	-8.150
28805440	554397.582	6928800.612	92.655	-27.7641572	135.5520544	-0.4845760	0.2170005	-0.9691519	0.6796452	979130.480	979153.225	-22.745	28.593	-10.368	-4.520	-6.990	-1.141	-7.378	-1.529	-7.766	-1.918	-8.155	-2.306	-8.543
28805520	555196.040	6928800.872	90.573	-27.7641223	135.5601573	-0.4845753	0.2170000	-0.9691507	0.6796441	979131.919	979153.222	-21.303	27.951	-10.135	-3.487	-6.833	-0.185	-7.212	-0.565	-7.592	-0.944	-7.971	-1.324	-8.351
28805600	555994.369	6928800.552	95.519	-27.7640921	135.5682588	-0.4845748	0.2169996	-0.9691496	0.6796431	979131.154	979153.220	-22.066	29.477	-10.689	-3.277	-7.206	0.205	-7.606	-0.195	-8.006	-0.595	-8.407	-0.995	-8.807
28805680	556796.895	6928800.496	91.446	-27.7640589	135.5764029	-0.4845742	0.2169991	-0.9691485	0.6796420	979131.873	979153.217	-21.344	28.220	-10.233	-3.357	-6.899	-0.023	-7.282	-0.406	-7.665	-0.789	-8.048	-1.172	-8.432
28805760	557594.567	6928798.234	88.016	-27.7640454	135.5844978	-0.4845740	0.2169989	-0.9691480	0.6796416	979131.977	979153.216	-21.239	27.162	-9.849	-3.927	-6.640	-0.717	-7.009	-1.086	-7.378	-1.455	-7.746	-1.824	-8.115
28805840	558389.315	6928797.818	94.999	-27.7640148	135.5925630	-0.4845735	0.2169985	-0.9691469	0.6796406	979129.453	979153.214	-23.761	29.317	-10.630	-5.075	-7.167	-1.611	-7.565	-2.009	-7.963	-2.407	-8.361	-2.805	-8.759
28805920	559186.354	6928798.564	96.115	-27.7639732	135.6006514	-0.4845727	0.2169979	-0.9691455	0.6796392	979128.410	979153.211	-24.801	29.661	-10.755	-5.895	-7.251	-2.391	-7.654	-2.794	-8.056	-3.196	-8.459	-3.599	-8.862
28806000	559994.979	6928799.627	94.237	-27.7639277	135.6088572	-0.4845720	0.2169972	-0.9691439	0.6796378	979128.044	979153.208	-25.164	29.082	-10.545	-6.627	-7.109	-3.191	-7.504	-3.586	-7.899	-3.981	-8.294	-4.376	-8.689
29605280	552788.201	6929597.024	92.389	-27.7570321	135.5356870	-0.4844516	0.2168980	-0.9689032	0.6794131	979127.825	979152.694	-24.869	28.511	-10.338	-6.697	-6.970	-3.328	-7.357	-3.715	-7.744	-4.102	-8.131	-4.489	-8.518
32005360	553598.541	6932002.088	100.934	-27.7352890	135.5438021	-0.4840721	0.2165853	-0.9681442	0.6787045	979123.251	979151.077	-27.826	31.148	-11.294	-7.972	-7.614	-4.292	-8.037	-4.715	-8.460	-5.138	-8.883	-5.561	-9.306
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
24004640	546401.535	6924006.031	89.780	-27.8077394	135.4710954	-0.4853366	0.2176280	-0.9706732	0.6810641	979116.956	979156.470	-39.514	27.706	-10.046	-21.855	-6.773	-18.581	-7.149	-18.957	-7.525	-19.334	-7.902	-19.710	-8.278
24004720	547202.195	6924002.894	85.810	-27.8077398	135.4792241	-0.4853366	0.2176280	-0.9706732	0.6810641	979119.789	979156.470	-36.681	26.481	-9.602	-19.802	-6.473	-16.674	-6.833	-17.033	-7.193	-17.393	-7.552	-17.753	-7.912
24004800	548008.246	6924000.118	86.979	-27.8077362	135.4874074	-0.4853366	0.2176279	-0.9706731	0.6810640	979121.325	979156.470	-35.145	26.842	-9.733	-18.036	-6.562	-14.865	-6.926	-15.229	-7.291	-15.594	-7.655	-15.958	-8.020
24004880	548800.631	6924003.414	82.058	-27.8076778	135.4954518	-0.4853355	0.2176271	-0.9706711	0.6810621	979124.675	979156.466	-31.791	25.323	-9.182	-15.650	-6.190	-12.658	-6.534	-13.002	-6.878	-13.346	-7.222	-13.690	-7.566
24004960	549600.469	6924001.720	82.539	-27.8076637	135.5035720	-0.4853353	0.2176269	-0.9706706	0.6810617	979126.914	979156.465	-29.551	25.472	-9.236	-13.315	-6.227	-10.306	-6.572	-10.652	-6.918	-10.998	-7.264	-11.343	-7.610
24005040	550399.750	6923992.384	82.397	-27.8077182	135.5116869	-0.4853362	0.2176277	-0.9706725	0.6810634	979129.219	979156.469	-27.250	25.428	-9.220	-11.042	-6.216	-8.038	-6.561	-8.383	-6.907	-8.729	-7.252	-9.074	-7.597
24005120	551198.508	6924000.107	85.941	-27.8076182	135.5197958	-0.4853345	0.2176262	-0.9706690	0.6810602	979130.581	979156.461	-25.880	26.521	-9.617	-8.976	-6.483	-5.842	-6.843	-6.202	-7.204	-6.562	-7.564	-6.923	-7.924
24005200	551989.445	6923996.963	86.371	-27.8076161	135.5278256	-0.4853345	0.2176262	-0.9706689	0.6810601	979132.224	979156.461	-24.237	26.654	-9.665	-7.248	-6.516	-4.099	-6.878	-4.461	-7.240	-4.823	-7.602	-5.185	-7.964
24005280	552793.186	6923998.596	85.900	-27.8075700	135.5359853	-0.4853337	0.2176255	-0.9706673	0.6810586	979133.578	979156.458	-22.880	26.509	-9.612	-5.983	-6.480	-2.851	-6.840	-3.211	-7.200	-3.571	-7.560	-3.931	-7.920
24005360	553595.179	6924000.677	85.523	-27.8075193	135.5441272	-0.4853328	0.2176248	-0.9706655	0.6810570	979134.250	979156.454	-22.204	26.392	-9.570	-5.381	-6.452	-2.263	-6.810	-2.622	-7.169	-2.980	-7.527	-3.338	-7.885
24005440	554398.652	6923999.603	85.288	-27.8074967	135.5522842	-0.4853324	0.2176245	-0.9706647	0.6810562	979134.661	979156.452	-21.791	26.320	-9.544	-5.015	-6.434	-1.905	-6.791	-2.263	-7.149	-2.620	-7.506	-2.978	-7.864
24005520	555194.792	6924000.339	83.321	-27.8074575	135.5603667	-0.4853317	0.2176239	-0.9706634	0.6810550	979134.727	979156.449	-21.722	25.713	-9.324	-5.333	-6.286	-2.295	-6.635	-2.644	-6.984	-2.993	-7.333	-3.343	-7.682
24005600	555999.190	6923998.836	78.796	-27.8074377	135.5685331	-0.4853313	0.2176236	-0.9706627	0.6810543	979135.245	979156.448	-21.203	24.316	-8.817	-5.704	-5.944	-2.831	-6.274	-3.161	-6.605	-3.491	-6.935	-3.821	-7.265
24005680	556800.302	6924002.443	76.473	-27.8073714	135.5766659	-0.4853302	0.2176227	-0.9706604	0.6810522	979135.325	979156.443	-21.118	23.600	-8.557	-6.076	-5.769	-3.287	-6.089	-3.608	-6.410	-3.928	-6.730	-4.249	-7.051
24005760	557592.737	6923998.573	76.655	-27.8073725	135.5847110	-0.4853302	0.2176227	-0.9706604	0.6810522	979134.909	979156.443	-21.534	23.656	-8.578	-6.456	-5.783	-3.661	-6.104	-3.982	-6.425	-4.303	-6.746	-4.625	-7.068
24005840	558387.530	6924014.104	77.584	-27.8071979	135.5927790	-0.4853272	0.2176202	-0.9706543	0.6810465	979134.382	979156.430	-22.048	23.942	-8.682	-6.787	-5.853	-3.958	-6.178	-4.283	-6.503	-4.609	-6.828	-4.934	-7.153
24005920	559190.489	6924003.937	78.673	-27.8072545	135.6009312	-0.4853281	0.2176210	-0.9706563	0.6810484	979134.161	979156.434	-22.273	24.278	-8.803	-6.798	-5.935	-3.930	-6.265	-4.259	-6.594	-4.589	-6.924	-4.919	-7.254
24006000	559996.237	6923998.765	80.743	-27.8072653	135.6091115	-0.4853283	0.2176211	-0.9706567	0.6810487	979133.070	979156.435	-23.365	24.917	-9.035	-7.483	-6.091	-4.539	-6.429	-4.877	-6.768	-5.216	-7.106	-5.554	-7.445
24804640	546395.556	6924800.368	87.297	-27.8005689	135.4710038	-0.4852115	0.2175247	-0.9704229	0.6808308	979116.573	979155.936	-39.363	26.940	-9.769	-22.192	-6.586	-19.009	-6.951	-19.375	-7.317	-19.740	-7.683	-20.106	-8.049
24804720	547192.935	6924794.747	87.489	-27.8005918	135.4790987	-0.4852119	0.2175250	-0.9704237	0.6808315	979118.509	979155.938	-37.429	26.999	-9.790	-20.220	-6.600	-17.030	-6.967	-17.396	-7.333	-17.763	-7.700	-18.130	-8.067
24804800	548002.955	6924800.403	88.276	-27.8005120	135.4873215	-0.4852105	0.2175239	-0.9704209	0.6808289	979120.237	979155.932	-35.695	27.242	-9.878	-18.331	-6.659	-15.112	-7.029	-15.482	-7.399	-15.852	-7.769	-16.222	-8.139
24804880	548793.837	6924799.273	83.289	-27.8004937	135.4953502	-0.4852101	0.2175236	-0.9704203	0.6808284	979124.177	979155.930	-31.753	25.703	-9.320	-15.371	-6.283	-12.334	-6.632	-12.683	-6.981	-13.032	-7.330	-13.381	-7.679
24804960	549596.113	6924800.744	86.979	-27.8004509	135.5034945	-0.4852094	0.2175230	-0.9704188	0.6808270	979126.265	979155.927	-29.662	26.842	-9.733	-12.553	-6.562	-9.382	-6.926	-9.747	-7.291	-10.111	-7.655	-10.476	-8.020
24806000	559992.054	6924803.864	80.090	-27.7999978	135.6090285	-0.4852015	0.2175165	-0.9704030	0.6808122	979132.942	979155.894	-22.952	24.716	-8.962	-7.198	-6.042	-4.278	-6.377	-4.613	-6.713	-4.949	-7.049	-5.285	-7.384
25604640	546396.356	6925603.855	91.156	-27.7933156	135.4709806	-0.4850849	0.2174202	-0.9701697	0.6805947	979115.020	979155.396	-40.376	28.131	-10.200	-22.445	-6.877	-19.122	-7.259	-19.504	-7.641	-19.886	-8.023	-20.268	-8.405
25604720	547197.437	6925601.320	90.301	-27.7933105	135.4791125	-0.4850848	0.2174202	-0.9701696	0.6805946	979117.140	979155.395	-38.255	27.867	-10.105	-20.493	-6.812	-17.201	-7.191	-17.579	-7.569	-17.958	-7.947	-18.336	-8.326
25604800	548004.226	6925599.547	85.711	-27.7932979	135.4873022	-0.4850846	0.2174200	-0.9701691	0.6805942	979120.540	979155.394	-34.854	26.450	-9.591	-17.995	-6.466	-14.870	-6.825	-15.229	-7.184	-15.588	-7.544	-15.948	-7.903
25604880	548800.996	6925597.885	87.146	-27.7932842	135.4953902	-0.4850843	0.2174198	-0.9701686	0.6805937	979123.311	979155.393	-32.082	26.893	-9.752	-14.941	-6.574	-11.763	-6.939	-12.129	-7.305	-12.494	-7.670	-12.859	-8.035
25604960	549599.228	6925600.205	87.337	-27.7932339	135.5034929	-0.4850834	0.2174191	-0.9701669	0.6805921	979126.454	979155.390	-28.936	26.952	-9.773	-11.756	-6.589	-8.572	-6.955	-8.938	-7.321	-9.304	-7.687	-9.670	-8.053
25605040	550400.840	6925599.270	88.272	-27.7932125	135.5116300	-0.4850831	0.2174188	-0.9701661	0.6805914	979128.922	979155.388	-26.466	27.241	-9.878	-9.103	-6.659	-5.884	-7.029	-6.254	-7.399	-6.624	-7.769	-6.994	-8.139
25605120	551199.916	6925599.217	89.813	-27.7931827	135.5197414	-0.4850825	0.2174183	-0.9701651	0.6805904	979130.672	979155.386	-24.714	27.716	-10.050	-7.048	-6.775	-3.773	-7.152	-4.149	-7.528	-4.526	-7.905	-4.902	-8.281
26404640	546408.281	6926402.093	91.386	-27.7861093	135.4710706	-0.4849591	0.2173165	-0.9699182	0.6803601	979114.391	979154.859	-40.468	28.202	-10.226	-22.492	-6.894	-19.160	-7.277	-19.543	-7.660	-19.926	-8.043	-20.309	-8.426
26404720	547198.355	6926398.765	90.667	-27.7861118	135.4790902	-0.4849591	0.2173165	-0.9699183	0.6803602	979116.660	979154.859	-38.199	27.980	-10.146	-20.365	-6.840	-17.059	-7.220	-17.439	-7.600	-17.819	-7.980	-18.199	-8.360
26404800	547992.371	6926401.172	85.872	-27.7860619	135.4871496	-0.4849583	0.2173158	-0.9699165	0.6803586	979120.429	979154.856	-34.427	26.500	-9.609	-17.536	-6.478	-14.404	-6.838	-14.764	-7.198	-15.124	-7.558	-15.484	-7.918
26404880	548805.091	6926399.219	85.742	-27.7860502	135.4953990	-0.4849581	0.2173156	-0.9699161	0.6803582	979123.479	979154.855	-31.376	26.460	-9.595	-14.510	-6.468	-11.384	-6.828	-11.743	-7.187	-12.103	-7.546	-12.462	-7.906
26404960	549592.303	6926398.634	89.929	-27.7860266	135.5033894	-0.4849576	0.2173153	-0.9699153	0.6803574	979125.230	979154.853	-29.623	27.752	-10.063	-11.934	-6.784	-8.655	-7.161	-9.032	-7.538	-9.409	-7.915	-9.786	-8.292
26405040	550398.409	6926397.146	89.604	-27.7860100	135.5115716	-0.4849574	0.2173151	-0.9699147	0.6803569	979128.003	979154.852	-26.849	27.652	-10.027	-9.224	-6.760	-5.956	-7.135	-6.332	-7.511	-6.708	-7.886	-7.083	-8.262
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
32805600	555997.214	6932804.430	108.785	-27.7279483	135.5681001	-0.4839440	0.2164798	-0.9678880	0.6784651	979122.477	979150.531	-28.054	33.571	-12.173	-6.656	-8.207	-2.689	-8.662	-3.145	-9.118	-3.601	-9.574	-4.057	-10.030
34405600	556013.604	6934397.652	118.085	-27.7135652	135.5681918	-0.4836930	0.2162730	-0.9673859	0.6779961	979117.411	979149.461	-32.050	36.441	-13.214	-8.823	-8.908	-4.518	-9.403	-5.012	-9.898	-5.507	-10.393	-6.002	-10.888
34405680	556791.591	6934398.667	133.104	-27.7135234	135.5760832	-0.4836922	0.2162724	-0.9673845	0.6779947	979115.135	979149.458	-34.323	41.076	-14.894	-8.142	-10.041	-3.289	-10.599	-3.846	-11.157	-4.404	-11.715	-4.962	-12.272
34405760	557598.001	6934406.520	130.657	-27.7134183	135.5842626	-0.4836904	0.2162709	-0.9673808	0.6779913	979116.816	979149.451	-32.635	40.321	-14.620	-6.934	-9.857	-2.170	-10.404	-2.718	-10.952	-3.265	-11.499	-3.813	-12.047
34405840	558397.583	6934404.602	112.521	-27.7134011	135.5923731	-0.4836901	0.2162707	-0.9673802	0.6779907	979121.508	979149.449	-27.941	34.724	-12.591	-5.808	-8.488	-1.706	-8.960	-2.177	-9.432	-2.649	-9.903	-3.120	-10.375
34405920	559193.723	6934401.847	109.771	-27.7133912	135.6004488	-0.4836899	0.2162705	-0.9673798	0.6779904	979122.114	979149.449	-27.335	33.875	-12.283	-5.743	-8.281	-1.740	-8.741	-2.200	-9.201	-2.660	-9.661	-3.120	-10.121
34406000	559990.760	6934400.431	109.919	-27.7133687	135.6085334	-0.4836895	0.2162702	-0.9673791	0.6779896	979121.258	979149.447	-28.189	33.921	-12.300	-6.568	-8.292	-2.560	-8.753	-3.021	-9.213	-3.481	-9.674	-3.942	-10.135
35205600	555990.420	6935196.711	130.115	-27.7063529	135.5679193	-0.4835671	0.2161694	-0.9671342	0.6777608	979114.578	979148.925	-34.347	40.153	-14.560	-8.754	-9.816	-4.010	-10.361	-4.555	-10.906	-5.100	-11.452	-5.645	-11.997
35205680	556797.879	6935197.574	138.492	-27.7063113	135.5761091	-0.4835664	0.2161688	-0.9671327	0.6777594	979113.182	979148.922	-35.740	42.739	-15.497	-8.499	-10.448	-3.449	-11.028	-4.030	-11.608	-4.610	-12.189	-5.190	-12.769
35205760	557602.065	6935201.034	141.275	-27.7062459	135.5842656	-0.4835652	0.2161679	-0.9671304	0.6777573	979112.732	979148.917	-36.185	43.597	-15.809	-8.397	-10.658	-3.245	-11.250	-3.838	-11.842	-4.430	-12.434	-5.022	-13.026
35205840	558398.129	6935201.410	122.373	-27.7062082	135.5923398	-0.4835646	0.2161673	-0.9671291	0.6777560	979117.078	979148.915	-31.837	37.764	-13.694	-7.766	-9.232	-3.304	-9.744	-3.817	-10.257	-4.330	-10.770	-4.842	-11.283
35205920	559202.057	6935204.854	119.591	-27.7061419	135.6004936	-0.4835634	0.2161664	-0.9671268	0.6777539	979117.092	979148.910	-31.818	36.906	-13.382	-8.294	-9.022	-3.934	-9.523	-4.435	-10.024	-4.936	-10.525	-5.437	-11.027
35206000	559993.067	6935205.525	123.997	-27.7061009	135.6085165	-0.4835627	0.2161658	-0.9671254	0.6777525	979115.219	979148.907	-33.688	38.265	-13.875	-9.297	-9.354	-4.776	-9.874	-5.296	-10.393	-5.816	-10.913	-6.335	-11.433
36005520	555200.499	6936005.256	129.942	-27.6990866	135.5598701	-0.4834403	0.2160650	-0.9668805	0.6775237	979112.469	979148.385	-35.916	40.100	-14.540	-10.357	-9.803	-5.619	-10.347	-6.163	-10.892	-6.708	-11.436	-7.253	-11.981
36005600	555997.775	6935998.873	128.350	-27.6991113	135.5679564	-0.4834407	0.2160654	-0.9668814	0.6775245	979113.393	979148.387	-34.994	39.609	-14.362	-9.748	-9.682	-5.068	-10.220	-5.606	-10.758	-6.144	-11.296	-6.682	-11.834
36005680	556794.469	6936016.251	160.168	-27.6989210	135.5760357	-0.4834374	0.2160626	-0.9668747	0.6775183	979105.971	979148.373	-42.402	49.428	-17.923	-10.897	-12.083	-5.057	-12.754	-5.728	-13.425	-6.399	-14.097	-7.071	-14.768
36005760	557594.837	6936000.810	149.438	-27.6990264	135.5841538	-0.4834392	0.2160641	-0.9668784	0.6775217	979108.625	979148.381	-39.756	46.117	-16.722	-10.361	-11.273	-4.913	-11.900	-5.539	-12.526	-6.165	-13.152	-6.792	-13.778
36005840	558391.365	6936001.798	141.494	-27.6989832	135.5922322	-0.4834385	0.2160635	-0.9668769	0.6775203	979110.142	979148.378	-38.236	43.665	-15.833	-10.404	-10.674	-5.245	-11.267	-5.838	-11.860	-6.431	-12.453	-7.024	-13.046
36005920	559198.402	6936003.137	129.207	-27.6989359	135.6004171	-0.4834376	0.2160628	-0.9668753	0.6775188	979112.519	979148.374	-35.855	39.873	-14.458	-10.440	-9.747	-5.729	-10.289	-6.270	-10.830	-6.812	-11.372	-7.354	-11.913
36006000	560006.025	6936018.257	121.116	-27.6987636	135.6086072	-0.4834346	0.2160604	-0.9668692	0.6775131	979113.271	979148.361	-35.090	37.376	-13.553	-11.267	-9.137	-6.851	-9.644	-7.358	-10.152	-7.866	-10.660	-8.373	-11.167
36805440	554400.471	6936821.906	144.357	-27.6917470	135.5517190	-0.4833122	0.2159596	-0.9666243	0.6772841	979106.120	979147.840	-41.720	44.549	-16.154	-13.325	-10.890	-8.061	-11.495	-8.666	-12.100	-9.271	-12.705	-9.876	-13.310
36805520	555179.872	6936787.778	148.328	-27.6920234	135.5596248	-0.4833170	0.2159635	-0.9666340	0.6772932	979105.967	979147.861	-41.894	45.774	-16.598	-12.717	-11.190	-7.309	-11.811	-7.931	-12.433	-8.552	-13.054	-9.174	-13.676
36805600	555923.728	6936783.350	182.441	-27.6920327	135.5671688	-0.4833171	0.2159637	-0.9666343	0.6772935	979098.231	979147.861	-49.630	56.301	-20.415	-13.744	-13.763	-7.092	-14.528	-7.857	-15.292	-8.621	-16.057	-9.386	-16.821
36805680	556829.173	6936803.502	152.241	-27.6918129	135.5763503	-0.4833133	0.2159605	-0.9666266	0.6772863	979105.437	979147.845	-42.408	46.982	-17.036	-12.462	-11.485	-6.911	-12.123	-7.549	-12.761	-8.187	-13.399	-8.825	-14.037

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
36805760	557589.304	6936801.892	181.367	-27.6917951	135.5840592	-0.4833130	0.2159603	-0.9666260	0.6772857	979099.235	979147.844	-48.609	55.970	-20.295	-12.934	-13.682	-6.321	-14.442	-7.081	-15.202	-7.841	-15.962	-8.601	-16.722
36805840	558385.492	6936869.865	149.300	-27.6911472	135.5921303	-0.4833017	0.2159510	-0.9666034	0.6772646	979106.481	979147.795	-41.314	46.074	-16.707	-11.947	-11.263	-6.503	-11.889	-7.129	-12.514	-7.755	-13.140	-8.380	-13.766
36805920	559196.087	6936798.880	144.603	-27.6917526	135.6003543	-0.4833123	0.2159597	-0.9666245	0.6772843	979107.136	979147.840	-40.704	44.624	-16.181	-12.261	-10.909	-6.988	-11.515	-7.594	-12.121	-8.201	-12.727	-8.807	-13.333
36806000	559995.623	6936799.071	128.556	-27.6917155	135.6084627	-0.4833116	0.2159591	-0.9666232	0.6772831	979109.733	979147.838	-38.105	39.672	-14.385	-12.818	-9.698	-8.130	-10.237	-8.669	-10.776	-9.208	-11.314	-9.747	-11.853
37605440	554388.817	6937599.791	159.981	-27.6847253	135.5515656	-0.4831896	0.2158587	-0.9663792	0.6770549	979100.883	979147.318	-46.435	49.370	-17.902	-14.967	-12.069	-9.134	-12.739	-9.804	-13.410	-10.475	-14.080	-11.145	-14.751
37605520	555193.998	6937598.892	166.944	-27.6847007	135.5597308	-0.4831892	0.2158584	-0.9663784	0.6770541	979099.656	979147.316	-47.660	51.519	-18.681	-14.823	-12.594	-8.735	-13.294	-9.435	-13.993	-10.135	-14.693	-10.834	-15.393
37605600	556007.955	6937663.856	170.680	-27.6840806	135.5679819	-0.4831784	0.2158495	-0.9663567	0.6770339	979098.415	979147.270	-48.855	52.672	-19.099	-15.283	-12.876	-9.059	-13.591	-9.775	-14.306	-10.490	-15.022	-11.205	-15.737
37605680	556803.395	6937593.926	181.271	-27.6846786	135.5760515	-0.4831888	0.2158581	-0.9663776	0.6770534	979096.259	979147.315	-51.056	55.940	-20.284	-15.400	-13.675	-8.790	-14.434	-9.550	-15.194	-10.310	-15.954	-11.069	-16.714
37605760	557609.140	6937600.112	188.549	-27.6845885	135.5842220	-0.4831872	0.2158568	-0.9663744	0.6770505	979095.128	979147.308	-52.180	58.186	-21.099	-15.093	-14.224	-8.218	-15.014	-9.008	-15.804	-9.798	-16.594	-10.588	-17.385
37605840	558399.188	6937604.291	189.663	-27.6845168	135.5922334	-0.4831860	0.2158557	-0.9663719	0.6770481	979095.310	979147.303	-51.993	58.530	-21.223	-14.686	-14.308	-7.771	-15.103	-8.565	-15.898	-9.360	-16.692	-10.155	-17.487
37605920	559201.458	6937664.912	158.545	-27.6839345	135.6003660	-0.4831758	0.2158474	-0.9663516	0.6770291	979101.900	979147.260	-45.360	48.927	-17.741	-14.174	-11.960	-8.393	-12.625	-9.057	-13.289	-9.722	-13.954	-10.386	-14.618
37606000	560000.243	6937617.951	128.568	-27.6843231	135.6084685	-0.4831826	0.2158529	-0.9663652	0.6770418	979108.161	979147.288	-39.127	39.676	-14.387	-13.838	-9.699	-9.150	-10.238	-9.689	-10.777	-10.228	-11.315	-10.767	-11.854
38405360	553617.235	6938396.728	143.969	-27.6775620	135.5437055	-0.4830646	0.2157559	-0.9661292	0.6768211	979102.599	979146.786	-44.187	44.429	-16.110	-15.868	-10.861	-10.619	-11.464	-11.222	-12.067	-11.826	-12.671	-12.429	-13.274
38405440	554399.252	6938402.562	146.015	-27.6774780	135.5516350	-0.4830631	0.2157547	-0.9661262	0.6768183	979103.064	979146.780	-43.716	45.060	-16.339	-14.995	-11.015	-9.671	-11.627	-10.283	-12.239	-10.895	-12.851	-11.507	-13.463
38405520	555184.749	6938388.322	152.592	-27.6775746	135.5596006	-0.4830648	0.2157560	-0.9661296	0.6768215	979101.571	979146.787	-45.216	47.090	-17.075	-15.201	-11.511	-9.637	-12.151	-10.277	-12.790	-10.917	-13.430	-11.556	-14.069
38405600	556002.554	6938395.379	157.650	-27.6774772	135.5678929	-0.4830631	0.2157546	-0.9661262	0.6768183	979099.978	979146.780	-46.802	48.651	-17.641	-15.792	-11.893	-10.044	-12.554	-10.705	-13.214	-11.365	-13.875	-12.026	-14.536
38405680	556806.379	6938401.941	162.004	-27.6773843	135.5760435	-0.4830615	0.2157533	-0.9661230	0.6768153	979098.629	979146.773	-48.144	49.994	-18.128	-16.278	-12.221	-10.371	-12.900	-11.050	-13.579	-11.729	-14.258	-12.408	-14.937
38405760	557607.071	6938404.213	178.646	-27.6773298	135.5841624	-0.4830605	0.2157525	-0.9661211	0.6768135	979094.862	979146.769	-51.907	55.130	-19.990	-16.767	-13.477	-10.254	-14.225	-11.002	-14.974	-11.751	-15.723	-12.500	-16.472
38405840	558401.058	6938400.280	177.713	-27.6773311	135.5922136	-0.4830606	0.2157525	-0.9661211	0.6768135	979095.183	979146.769	-51.586	54.842	-19.886	-16.630	-13.406	-10.150	-14.151	-10.895	-14.896	-11.640	-15.641	-12.385	-16.385
38405920	559146.828	6938398.106	152.186	-27.6773182	135.5997759	-0.4830603	0.2157524	-0.9661207	0.6768131	979100.977	979146.768	-45.791	46.965	-17.030	-15.856	-11.481	-10.307	-12.118	-10.945	-12.756	-11.583	-13.394	-12.221	-14.032
38406000	559974.936	6938383.419	134.455	-27.6774142	135.6081736	-0.4830620	0.2157537	-0.9661240	0.6768163	979104.803	979146.775	-41.972	41.493	-15.045	-15.525	-10.143	-10.622	-10.707	-11.186	-11.270	-11.749	-11.834	-12.313	-12.397
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
36804480	544794.123	6936790.436	121.607	-27.6923849	135.4542973	-0.4833233	0.2159687	-0.9666466	0.6773050	979103.549	979147.887	-44.338	37.528	-13.608	-20.418	-9.174	-15.984	-9.683	-16.494	-10.193	-17.004	-10.703	-17.513	-11.212
36804560	545589.924	6936797.274	146.402	-27.6922965	135.4623677	-0.4833218	0.2159675	-0.9666435	0.6773021	979098.475	979147.881	-49.406	45.180	-16.382	-20.608	-11.044	-15.270	-11.658	-15.884	-12.271	-16.498	-12.885	-17.111	-13.499
36804640	546403.619	6936800.641	144.941	-27.6922383	135.4706198	-0.4833207	0.2159666	-0.9666415	0.6773002	979099.902	979147.876	-47.974	44.729	-16.219	-19.465	-10.934	-14.180	-11.542	-14.787	-12.149	-15.395	-12.756	-16.002	-13.364
36804720	547194.341	6936799.490	171.424	-27.6922212	135.4786390	-0.4833204	0.2159664	-0.9666409	0.6772996	979094.652	979147.875	-53.223	52.901	-19.182	-19.504	-12.932	-13.254	-13.650	-13.972	-14.369	-14.691	-15.087	-15.409	-15.806
36804800	547975.840	6936795.689	152.699	-27.6922279	135.4865648	-0.4833206	0.2159665	-0.9666411	0.6772998	979099.041	979147.876	-48.835	47.123	-17.087	-18.799	-11.519	-13.231	-12.159	-13.871	-12.799	-14.511	-13.439	-15.151	-14.079
36804880	548803.418	6936804.086	124.916	-27.6921224	135.4949574	-0.4833187	0.2159650	-0.9666374	0.6772964	979105.644	979147.868	-42.224	38.549	-13.978	-17.653	-9.423	-13.098	-9.947	-13.622	-10.470	-14.145	-10.994	-14.669	-11.518
36804960	549591.211	6936789.978	135.331	-27.6922209	135.5029474	-0.4833204	0.2159664	-0.9666409	0.6772996	979103.074	979147.875	-44.801	41.763	-15.143	-18.182	-10.209	-13.247	-10.776	-13.814	-11.343	-14.381	-11.911	-14.949	-12.478
36805040	550390.877	6936812.656	156.075	-27.6919865	135.5110563	-0.4833163	0.2159630	-0.9666327	0.6772920	979098.601	979147.858	-49.257	48.165	-17.465	-18.557	-11.774	-12.866	-12.428	-13.520	-13.082	-14.174	-13.736	-14.828	-14.390
36805120	551205.394	6936800.211	160.895	-27.6920682	135.5193172	-0.4833178	0.2159642	-0.9666355	0.6772946	979098.323	979147.864	-49.541	49.652	-18.004	-17.893	-12.138	-12.026	-12.812	-12.701	-13.486	-13.375	-14.161	-14.049	-14.835
36805200	551998.416	6936802.181	166.168	-27.6920200	135.5273596	-0.4833169	0.2159635	-0.9666339	0.6772931	979097.930	979147.860	-49.930	51.279	-18.594	-17.245	-12.535	-11.186	-13.232	-11.883	-13.928	-12.579	-14.625	-13.275	-15.321
36805280	552794.276	6936802.673	180.695	-27.6919846	135.5354308	-0.4833163	0.2159630	-0.9666326	0.6772919	979095.690	979147.858	-52.168	55.762	-20.220	-16.625	-13.631	-10.036	-14.389	-10.794	-15.146	-11.551	-15.903	-12.308	-16.660
36805360	553603.114	6936798.670	170.377	-27.6919888	135.5436337	-0.4833164	0.2159630	-0.9666328	0.6772920	979099.255	979147.858	-48.603	52.578	-19.065	-15.090	-12.853	-8.877	-13.567	-9.592	-14.281	-10.306	-14.995	-11.020	-15.709
36805440	554400.727	6936822.153	144.339	-27.6917448	135.5517216	-0.4833121	0.2159595	-0.9666242	0.6772841	979106.150	979147.840	-41.690	44.543	-16.151	-13.298	-10.889	-8.035	-11.494	-8.640	-12.098	-9.245	-12.703	-9.850	-13.308
37604480	544793.991	6937595.708	132.377	-27.6851154	135.4542658	-0.4831964	0.2158643	-0.9663928	0.6770677	979101.023	979147.347	-46.324	40.852	-14.813	-20.286	-9.986	-15.459	-10.541	-16.014	-11.096	-16.569	-11.651	-17.123	-12.205
37604560	545597.395	6937622.119	162.673	-27.6848500	135.4624121	-0.4831918	0.2158605	-0.9663836	0.6770590	979094.181	979147.328	-53.147	50.201	-18.203	-21.149	-12.272	-15.217	-12.953	-15.899	-13.635	-16.581	-14.317	-17.263	-14.999
37604640	546424.664	6937624.337	133.137	-27.6848017	135.4708013	-0.4831909	0.2158598	-0.9663819	0.6770574	979101.636	979147.324	-45.688	41.086	-14.898	-19.500	-10.044	-14.645	-10.602	-15.203	-11.160	-15.761	-11.718	-16.319	-12.275
37604720	547191.831	6937597.908	163.357	-27.6850137	135.4785821	-0.4831946	0.2158629	-0.9663893	0.6770644	979095.464	979147.340	-51.876	50.412	-18.280	-19.743	-12.323	-13.787	-13.008	-14.472	-13.693	-15.156	-14.377	-15.841	-15.062
37604800	548053.833	6937597.200	154.425	-27.6849896	135.4873236	-0.4831942	0.2158625	-0.9663884	0.6770636	979097.851	979147.338	-49.487	47.656	-17.280	-19.111	-11.650	-13.481	-12.297	-14.128	-12.944	-14.775	-13.591	-15.422	-14.238
37604880	548800.827	6937606.143	129.980	-27.6848820	135.4948984	-0.4831923	0.2158610	-0.9663847	0.6770601	979103.628	979147.330	-43.702	40.112	-14.545	-18.135	-9.805	-13.396	-10.350	-13.940	-10.895	-14.485	-11.440	-15.030	-11.984
37604960	549573.993	6937615.598	137.877	-27.6847684	135.5027386	-0.4831904	0.2158593	-0.9663807	0.6770564	979101.809	979147.322	-45.513	42.549	-15.428	-18.392	-10.401	-13.365	-10.979	-13.943	-11.557	-14.521	-12.135	-15.098	-12.713
37605040	550395.822	6937599.980	154.679	-27.6848789	135.5110733	-0.4831923	0.2158609	-0.9663846	0.6770600	979097.890	979147.330	-49.440	47.734	-17.309	-19.014	-11.669	-13.374	-12.317	-14.023	-12.965	-14.671	-13.613	-15.319	-14.262
37605120	551197.531	6937598.556	159.083	-27.6848615	135.5192034	-0.4831920	0.2158607	-0.9663840	0.6770594	979097.196	979147.328	-50.132	49.093	-17.801	-18.841	-12.001	-13.040	-12.668	-13.707	-13.334	-14.374	-14.001	-15.040	-14.668
37605200	552001.486	6937609.675	157.020	-27.6847304	135.5273557	-0.4831897	0.2158588	-0.9663794	0.6770551	979098.326	979147.319	-48.993	48.456	-17.570	-18.107	-11.845	-12.382	-12.503	-13.040	-13.161	-13.698	-13.819	-14.356	-14.478
37605280	552778.597	6937592.829	170.318	-27.6848522	135.5352370	-0.4831918	0.2158605	-0.9663836	0.6770591	979096.328	979147.328	-51.000	52.560	-19.059	-17.498	-12.848	-11.288	-13.562	-12.002	-14.276	-12.716	-14.990	-13.429	-15.704
37605360	553589.166	6937601.942	154.429	-27.6847379	135.5434564	-0.4831898	0.2158589	-0.9663797	0.6770554	979101.485	979147.319	-45.834	47.657	-17.281	-15.458	-11.650	-9.827	-12.297	-10.474	-12.944	-11.122	-13.591	-11.769	-14.239
38404880	548800.862	6938396.538	139.547	-27.6777468	135.4948666	-0.4830678	0.2157585	-0.9661356	0.6768271	979100.322	979146.800	-46.478	43.064	-15.615	-19.029	-10.527	-13.941	-11.112	-14.526	-11.697	-15.111	-12.282	-15.695	-12.867
38404960	549600.978	6938395.122	149.191	-27.6777304	135.5029800	-0.4830675	0.2157583	-0.9661350	0.6768266	979098.117	979146.799	-48.682	46.040	-16.694	-19.336	-11.255	-13.896	-11.880	-14.521	-12.505	-15.147	-13.130	-15.772	-13.756
38405040	550398.868	6938398.630	146.063	-27.6776691	135.5110707	-0.4830665	0.2157574	-0.9661329	0.6768246	979098.643	979146.794	-48.151	45.075	-16.344	-19.421	-11.019	-14.095	-11.631	-14.707	-12.243	-15.319	-12.855	-15.931	-13.467
38405120	551194.573	6938401.492	147.532	-27.6776133	135.5191391	-0.4830655	0.2157566	-0.9661310	0.6768228	979098.198	979146.790	-48.592	45.528	-16.509	-19.572	-11.130	-14.193	-11.748	-14.811	-12.366	-15.430	-12.984	-16.048	-13.603
38405200	551985.285	6938401.568	145.165	-27.6775823	135.5271571	-0.4830649	0.2157562	-0.9661299	0.6768217	979098.515	979146.788	-48.273	44.798	-16.244	-19.719	-10.951	-14.426	-11.559	-15.034	-12.168	-15.643	-12.776	-16.251	-13.385
38405280	552793.997	6938398.998	164.893	-27.6775741	135.5353576	-0.4830648	0.2157560	-0.9661296	0.6768215	979094.919	979146.787	-51.868	50.886	-18.451	-19.434	-12.439	-13.421	-13.130	-14.112	-13.821	-14.803	-14.512	-15.495	-15.203
38405360	553617.988	6938396.856	143.969	-27.6775609	135.5437131	-0.4830646	0.2157558	-0.9661291	0.6768210	979102.563	979146.786	-44.223	44.429	-16.110	-15.904	-10.861	-10.655	-11.464	-11.258	-12.067	-11.862	-12.671	-12.465	-13.274
39204880	548796.508	6939201.398	145.307	-27.6704812	135.4947897	-0.4829410	0.2156542	-0.9658820	0.6765899	979097.563	979146.260	-48.697	44.842	-16.260	-20.115	-10.962	-14.817	-11.571	-15.426	-12.180	-16.035	-12.789	-16.644	-13.398
39204960	549599.994	6939204.732	143.431	-27.6704218	135.5029366	-0.4829400	0.2156533	-0.9658799	0.6765879	979097.940	979146.256	-48.316	44.263	-16.050	-20.103	-10.820	-14.873	-11.421	-15.474	-12.022	-16.075	-12.624	-16.677	-13.225
39205040	550396.979	6939201.986	141.619	-27.6704170	135.5110178	-0.4829399	0.2156533	-0.9658798	0.6765878	979097.973	979146.256	-48.283	43.704	-15.847	-20.426	-10.683	-15.262	-11.277	-15.856	-11.871	-16.449	-12.464	-17.043	-13.058
39205120	551189.543	6939198.290	142.266	-27.6704205	135.5190541	-0.4829399	0.2156533	-0.9658799	0.6765879	979097.177	979146.256	-49.079	43.903	-15.920	-21.095	-10.732	-15.908	-11.328	-16.504	-11.925	-17.100	-12.521	-17.697	-13.117
39205200	551999.194	6939198.467	141.305	-27.6703879	135.5272636	-0.4829394	0.2156529	-0.9658787	0.6765868	979096.657	979146.253	-49.596	43.607	-15.812	-21.802	-10.660	-16.649	-11.252	-17.242	-11.844	-17.834	-12.436	-18.426	-13.029
39205280	552792.419	6939196.108	143.356	-27.6703784	135.5353066	-0.4829392	0.2156527	-0.9658784	0.6765865	979096.654	979146.253	-49.599	44.240	-16.041	-21.401	-10.814	-16.174	-11.415	-16.774	-12.016	-17.375	-12.617	-17.976	-13.218
39205360	553597.815	6939197.911	146.328	-27.6703303	135.5434728	-0.4829384	0.2156520	-0.9658767	0.6765849	979098.759	979146.249	-47.490	45.157	-16.374	-18.707	-11.039	-13.372	-11.652	-13.985	-12.265	-14.599	-12.878	-15.212	-13.492
39205440	554397.762	6939199.179	138.153	-27.6702868	135.5515837	-0.4829376	0.2156514	-0.9658752	0.6765835	979102.538	979146.246	-43.708	42.634	-15.459	-16.533	-10.422	-11.496	-11.001	-12.075	-11.580	-12.654	-12.159	-13.233	-12.738
39205520	555195.602	6939200.785	147.041	-27.6702399	135.5596733	-0.4829368	0.2156507	-0.9658736	0.6765820	979100.805	979146.242	-45.437	45.377	-16.454	-16.514	-11.092	-11.153	-11.709	-11.769	-12.325	-12.386	-12.941	-13.002	-13.557
39205600	555993.165	6939199.524	151.902	-27.6702183	135.5677602	-0.4829364	0.2156504	-0.9658728	0.6765813	979099.432	979146.241	-46.809	46.877	-16.998	-16.930	-11.459	-11.391	-12.096	-12.028	-12.732	-12.664	-13.369	-13.301	-14.006
39205680	556790.931	6939206.886	155.193	-27.6701185	135.5758487	-0.4829347	0.2156490	-0.9658693	0.6765780	979098.216	979146.233	-48.017	47.893	-17.366	-17.491	-11.707	-11.832	-12.358	-12.483	-13.008	-13.133	-13.659	-13.784	-14.309
39205760	557591.201	6939195.693	175.960	-27.6701856	135.5839635	-0.4829358	0.2156500	-0.9658717	0.6765802	979092.847	979146.238	-53.391	54.301	-19.690	-18.780	-13.274	-12.364	-14.012	-13.102	-14.749	-13.839	-15.486	-14.577	-16.224
39205840	558397.465	6939190.061	162.607	-27.6702017	135.5921388	-0.4829361	0.2156502	-0.9658723	0.6765807	979095.912	979146.240	-50.328	50.181	-18.196	-18.343	-12.267	-12.414	-12.948	-13.095	-13.630	-13.777	-14.311	-14.458	-14.993
39205920	559192.379	6939201.412	142.458	-27.6700646	135.6001981	-0.4829337	0.2156482	-0.9658675	0.6765763	979100.315	979146.229	-45.914	43.963	-15.941	-17.893	-10.747	-12.699	-11.344	-13.296	-11.941	-13.893	-12.538	-14.490	-13.135
39206000	559971.137	6939177.066	153.696	-27.6702500	135.6080954	-0.4829370	0.2156509	-0.9658739	0.6765823	979097.532	979146.243	-48.711	47.431	-17.199	-18.479	-11.595	-12.875	-12.239	-13.519	-12.883	-14.163	-13.527	-14.808	-14.171
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
34404480	544807.807	6934396.772	110.121	-27.7139930	135.4545256	-0.4837004	0.2162792	-0.9674009	0.6780100	979105.715	979149.493	-43.778	33.983	-12.323	-22.117	-8.307	-18.102	-8.769	-18.564	-9.230	-19.025	-9.692	-19.487	-10.153
34404560	545601.683	6934391.542	110.902	-27.7140136	135.4625785	-0.4837008	0.2162795	-0.9674016	0.6780107	979106.661	979149.495	-42.834	34.224	-12.410	-21.019	-8.366	-16.976	-8.831	-17.440	-9.296	-17.905	-9.761	-18.370	-10.225
34404640	546396.690	6934399.702	111.380	-27.7139127	135.4706425	-0.4836990	0.2162780	-0.9673981	0.6780074	979107.935	979149.487	-41.552	34.372	-12.463	-19.644	-8.402	-15.583	-8.869	-16.050	-9.336	-16.516	-9.803	-16.983	-10.269
34404720	547167.560	6934395.063	108.155	-27.7139278	135.4784620	-0.4836993	0.2162783	-0.9673986	0.6780079	979110.063	979149.488	-39.425	33.377	-12.103	-18.151	-8.159	-14.208	-8.612	-14.661	-9.066	-15.114	-9.519	-15.568	-9.972
34404800	548008.723	6934399.326	105.754	-27.7138596	135.4869943	-0.4836981	0.2162773	-0.9673962	0.6780057	979111.636	979149.483	-37.847	32.636	-11.834	-17.046	-7.978	-13.190	-8.421	-13.633	-8.864	-14.076	-9.308	-14.519	-9.751
34404880	548796.354	6934401.591	119.337	-27.7138108	135.4949836	-0.4836972	0.2162766	-0.9673945	0.6780041	979109.133	979149.480	-40.347	36.827	-13.354	-16.873	-9.003	-12.522	-9.503	-13.022	-10.003	-13.522	-10.503	-14.022	-11.003
34404960	549586.843	6934408.678	112.465	-27.7137179	135.5030016	-0.4836956	0.2162752	-0.9673913	0.6780010	979111.298	979149.473	-38.175	34.707	-12.585	-16.053	-8.484	-11.952	-8.955	-12.424	-9.427	-12.895	-9.898	-13.366	-10.369
34405040	550400.897	6934402.505	110.952	-27.7137434	135.5112593	-0.4836961	0.2162756	-0.9673921	0.6780019	979112.467	979149.475	-37.008	34.240	-12.415	-15.183	-8.370	-11.138	-8.835	-11.603	-9.300	-12.068	-9.765	-12.533	-10.230
34405120	551199.496	6934402.103	116.232	-27.7137169	135.5193599	-0.4836956	0.2162752	-0.9673912	0.6780010	979112.628	979149.473	-36.845	35.869	-13.006	-13.982	-8.768	-9.744	-9.255	-10.231	-9.743	-10.718	-10.230	-11.205	-10.717
35204480	544799.437	6935193.285	121.794	-27.7068029	135.4544109	-0.4835749	0.2161759	-0.9671499	0.6777755	979103.145	979148.959	-45.814	37.586	-13.629	-21.857	-9.188	-17.416	-9.698	-17.927	-10.209	-18.437	-10.719	-18.947	-11.230
35204560	544595.625	6935201.757	116.456	-27.7066997	135.4624862	-0.4835731	0.2161744	-0.9671463	0.6777721	979105.545	979148.951	-43.406	35.938	-13.031	-20.499	-8.785	-16.253	-9.273	-16.741	-9.761	-17.229	-10.249	-17.717	-10.737

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
35204640	546408.991	6935199.650	116.640	-27.7066909	135.4707362	-0.4835730	0.2161743	-0.9671460	0.6777718	979107.018	979148.951	-41.933	35.995	-13.052	-18.989	-8.799	-14.736	-9.288	-15.225	-9.777	-15.714	-10.266	-16.203	-10.754
35204720	547198.983	6935200.847	123.494	-27.7066526	135.4787490	-0.4835723	0.2161737	-0.9671446	0.6777705	979106.374	979148.948	-42.574	38.110	-13.819	-18.282	-9.316	-13.780	-9.834	-14.297	-10.351	-14.815	-10.869	-15.332	-11.386
35204800	548003.934	6935201.454	116.897	-27.7066187	135.4869136	-0.4835717	0.2161732	-0.9671434	0.6777694	979108.566	979148.945	-40.379	36.074	-13.081	-17.385	-8.818	-13.123	-9.308	-13.613	-9.798	-14.103	-10.288	-14.593	-10.778
35204880	548801.484	6935192.114	117.848	-27.7066743	135.4950034	-0.4835727	0.2161740	-0.9671454	0.6777713	979108.605	979148.949	-40.344	36.368	-13.187	-17.164	-8.890	-12.867	-9.384	-13.360	-9.878	-13.854	-10.372	-14.348	-10.866
35204960	549596.069	6935199.338	120.700	-27.7065800	135.5030625	-0.4835710	0.2161727	-0.9671421	0.6777682	979108.265	979148.942	-40.677	37.248	-13.506	-16.936	-9.105	-12.535	-9.611	-13.040	-10.117	-13.546	-10.623	-14.052	-11.129
35205040	550400.660	6935200.271	123.001	-27.7065417	135.5112233	-0.4835704	0.2161721	-0.9671408	0.6777669	979108.380	979148.939	-40.559	37.958	-13.764	-16.365	-9.279	-11.880	-9.794	-12.396	-10.310	-12.911	-10.825	-13.427	-11.341
35205120	551206.425	6935204.658	125.319	-27.7064717	135.5193959	-0.4835692	0.2161711	-0.9671383	0.6777646	979108.922	979148.934	-40.012	38.673	-14.023	-15.362	-9.454	-10.793	-9.979	-11.318	-10.504	-11.843	-11.029	-12.368	-11.555
35205200	552002.322	6935193.122	135.394	-27.7065453	135.5274690	-0.4835704	0.2161722	-0.9671409	0.6777670	979108.040	979148.940	-40.900	41.783	-15.151	-14.268	-10.214	-9.331	-10.781	-9.898	-11.349	-10.466	-11.916	-11.033	-12.484
35205280	552805.745	6935204.304	133.696	-27.7064131	135.5356175	-0.4835681	0.2161703	-0.9671363	0.6777627	979109.723	979148.930	-39.207	41.259	-14.961	-12.909	-10.086	-8.034	-10.646	-8.594	-11.206	-9.155	-11.767	-9.715	-12.327
35205360	553600.094	6935201.788	133.049	-27.7064044	135.5436745	-0.4835680	0.2161701	-0.9671360	0.6777624	979111.008	979148.929	-37.921	41.059	-14.888	-11.750	-10.037	-6.899	-10.595	-7.457	-11.152	-8.014	-11.710	-8.572	-12.267
35205440	554403.793	6935198.759	131.276	-27.7063995	135.5518264	-0.4835679	0.2161701	-0.9671358	0.6777623	979112.503	979148.929	-36.426	40.512	-14.690	-10.604	-9.903	-5.817	-10.453	-6.367	-11.004	-6.918	-11.554	-7.468	-12.104
35205520	555202.166	6935202.557	119.873	-27.7063327	135.5599240	-0.4835667	0.2161691	-0.9671335	0.6777601	979116.170	979148.924	-32.754	36.993	-13.414	-9.175	-9.043	-4.804	-9.545	-5.306	-10.048	-5.809	-10.550	-6.311	-11.053
35205600	555990.746	6935196.844	130.121	-27.7063517	135.5679226	-0.4835671	0.2161694	-0.9671341	0.6777607	979114.552	979148.925	-34.373	40.155	-14.561	-8.778	-9.816	-4.034	-10.361	-4.579	-10.907	-5.125	-11.452	-5.670	-11.997
36004480	544796.623	6935996.014	123.607	-27.6995564	135.4543523	-0.4834485	0.2160718	-0.9668969	0.6775390	979102.820	979148.420	-45.600	38.145	-13.832	-21.287	-9.325	-16.780	-9.843	-17.298	-10.361	-17.816	-10.879	-18.334	-11.397
36004560	545591.155	6936005.595	122.052	-27.6994433	135.4624103	-0.4834465	0.2160701	-0.9668930	0.6775353	979104.087	979148.412	-44.325	37.665	-13.658	-20.317	-9.207	-15.867	-9.719	-16.378	-10.230	-16.890	-10.742	-17.402	-11.253
36004640	546420.919	6936028.165	160.977	-27.6992112	135.4708251	-0.4834424	0.2160668	-0.9668849	0.6775277	979096.360	979148.395	-52.035	49.678	-18.013	-20.370	-12.144	-14.501	-12.818	-15.176	-13.493	-15.850	-14.168	-16.525	-14.842
36004720	547195.662	6935998.389	135.212	-27.6994530	135.4786839	-0.4834467	0.2160703	-0.9668933	0.6775356	979103.346	979148.413	-45.067	41.726	-15.130	-18.470	-10.200	-13.540	-10.767	-14.107	-11.333	-14.674	-11.900	-15.240	-12.467
36004800	547994.071	6935994.976	140.886	-27.6994556	135.4867817	-0.4834467	0.2160703	-0.9668934	0.6775357	979102.251	979148.413	-46.162	43.477	-15.765	-18.449	-10.628	-13.313	-11.219	-13.903	-11.809	-14.493	-12.400	-15.084	-12.990
36004880	548795.586	6936003.473	124.778	-27.6993501	135.4949105	-0.4834449	0.2160688	-0.9668897	0.6775323	979106.083	979148.405	-42.322	38.506	-13.963	-17.778	-9.413	-13.228	-9.936	-13.751	-10.459	-14.274	-10.982	-14.797	-11.505
36004960	549592.842	6936008.941	150.953	-27.6992716	135.5029962	-0.4834435	0.2160677	-0.9668870	0.6775297	979099.921	979148.399	-48.478	46.584	-16.892	-18.786	-11.388	-13.282	-12.020	-13.914	-12.653	-14.547	-13.286	-15.180	-13.918
36005040	550416.941	6936008.666	138.781	-27.6992435	135.5113544	-0.4834430	0.2160673	-0.9668860	0.6775288	979103.180	979148.397	-45.217	42.828	-15.530	-17.919	-10.469	-12.859	-11.051	-13.440	-11.633	-14.022	-12.214	-14.603	-12.796
36005120	551185.817	6936001.482	165.293	-27.6992793	135.5191528	-0.4834436	0.2160678	-0.9668872	0.6775300	979098.304	979148.400	-50.096	51.009	-18.496	-17.582	-12.469	-11.556	-13.162	-12.248	-13.855	-12.941	-14.548	-13.634	-15.240
36005200	551993.110	6936000.995	176.147	-27.6992527	135.5273405	-0.4834432	0.2160674	-0.9668863	0.6775291	979097.107	979148.398	-51.291	54.359	-19.711	-16.643	-13.288	-10.220	-14.026	-10.958	-14.765	-11.696	-15.503	-12.435	-16.241
36005280	552789.017	6935916.103	149.344	-27.6999881	135.5354165	-0.4834560	0.2160780	-0.9669120	0.6775531	979104.514	979148.452	-43.938	46.088	-16.712	-14.562	-11.266	-9.117	-11.892	-9.743	-12.518	-10.369	-13.144	-10.995	-13.770
36005360	553593.957	6936004.829	146.811	-27.6991554	135.5435764	-0.4834415	0.2160660	-0.9668829	0.6775259	979106.390	979148.390	-42.000	45.306	-16.428	-13.123	-11.075	-7.770	-11.690	-8.385	-12.306	-9.000	-12.921	-9.616	-13.536
36005440	554390.632	6935994.657	147.377	-27.6992152	135.5516568	-0.4834425	0.2160669	-0.9668850	0.6775279	979107.571	979148.395	-40.824	45.481	-16.491	-11.835	-11.118	-6.461	-11.735	-7.079	-12.353	-7.697	-12.971	-8.314	-13.588
36005520	555200.699	6936005.471	129.956	-27.6990846	135.5598721	-0.4834402	0.2160650	-0.9668805	0.6775236	979112.486	979148.385	-35.899	40.104	-14.542	-10.337	-9.804	-5.598	-10.348	-6.143	-10.893	-6.688	-11.438	-7.232	-11.982
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
5102	553442.192	6931813.041	105.126	-27.7370018	135.5422243	-0.4841020	0.2166099	-0.9682040	0.6787603	979122.441	979151.204	-28.763	32.442	-11.764	-8.085	-7.930	-4.252	-8.371	-4.692	-8.812	-5.133	-9.252	-5.574	-9.693
24805040	550394.325	6924809.258	87.780	-27.8003443	135.5115973	-0.4852075	0.2175215	-0.9704151	0.6808235	979128.606	979155.919	-27.313	27.089	-9.823	-10.047	-6.622	-6.846	-6.990	-7.214	-7.358	-7.582	-7.726	-7.950	-8.093
24805120	551192.972	6924801.655	87.050	-27.8003827	135.5197051	-0.4852082	0.2175220	-0.9704164	0.6808247	979130.874	979155.922	-25.048	26.864	-9.741	-7.925	-6.567	-4.751	-6.932	-5.116	-7.297	-5.481	-7.661	-5.846	-8.026
24805200	552001.932	6924799.076	87.467	-27.8003748	135.5279174	-0.4852081	0.2175219	-0.9704161	0.6808245	979132.475	979155.922	-23.447	26.992	-9.788	-6.242	-6.598	-3.053	-6.965	-3.419	-7.331	-3.786	-7.698	-4.152	-8.065
24805280	552792.613	6924797.623	87.643	-27.8003570	135.5359441	-0.4852078	0.2175216	-0.9704155	0.6808239	979133.503	979155.920	-22.417	27.047	-9.807	-5.178	-6.612	-1.982	-6.979	-2.350	-7.346	-2.717	-7.714	-3.084	-8.081
24805360	553596.269	6924799.407	87.405	-27.8003090	135.5441023	-0.4852069	0.2175209	-0.9704139	0.6808223	979134.048	979155.917	-21.869	26.973	-9.781	-4.676	-6.594	-1.489	-6.960	-1.856	-7.326	-2.222	-7.693	-2.588	-8.059
24805440	554393.958	6924802.962	88.002	-27.8002448	135.5521999	-0.4852058	0.2175200	-0.9704116	0.6808203	979133.993	979155.912	-21.919	27.157	-9.847	-4.609	-6.639	-1.400	-7.008	-1.769	-7.376	-2.138	-7.745	-2.507	-8.114
24805520	555192.739	6924798.415	87.014	-27.8002532	135.5603089	-0.4852060	0.2175201	-0.9704119	0.6808205	979133.800	979155.913	-22.113	26.853	-9.737	-4.997	-6.564	-1.824	-6.929	-2.189	-7.294	-2.554	-7.658	-2.918	-8.023
24805600	555989.760	6924798.668	82.959	-27.8002179	135.5683998	-0.4852053	0.2175196	-0.9704107	0.6808194	979134.268	979155.910	-21.642	25.601	-9.283	-5.324	-6.258	-2.299	-6.606	-2.647	-6.954	-2.994	-7.301	-3.342	-7.649
24805680	556785.986	6924792.295	79.020	-27.8002419	135.5764830	-0.4852058	0.2175200	-0.9704115	0.6808202	979134.785	979155.912	-21.127	24.386	-8.842	-5.583	-5.961	-2.702	-6.292	-3.033	-6.623	-3.365	-6.955	-3.696	-7.286
24805760	557587.260	6924803.122	78.080	-27.8001100	135.5846165	-0.4852035	0.2175181	-0.9704069	0.6808159	979134.812	979155.902	-21.090	24.095	-8.737	-5.732	-5.890	-2.885	-6.217	-3.212	-6.545	-3.539	-6.872	-3.866	-7.199
24805840	558390.931	6924802.743	78.767	-27.8000787	135.5927749	-0.4852029	0.2175176	-0.9704058	0.6808148	979134.270	979155.900	-21.630	24.307	-8.814	-6.136	-5.942	-3.264	-6.272	-3.594	-6.602	-3.924	-6.932	-4.254	-7.262
24805920	559197.394	6924794.951	81.722	-27.8001136	135.6009620	-0.4852035	0.2175181	-0.9704070	0.6808160	979133.263	979155.902	-22.639	25.219	-9.145	-6.564	-6.165	-3.585	-6.507	-3.927	-6.850	-4.270	-7.192	-4.612	-7.535
32005360	553598.547	6932002.013	100.931	-27.7352896	135.5438021	-0.4840721	0.2165853	-0.9681442	0.6787045	979123.314	979151.077	-27.763	31.147	-11.294	-7.910	-7.614	-4.230	-8.037	-4.653	-8.460	-5.076	-8.883	-5.499	-9.306
32805600	555997.195	6932804.477	108.796	-27.7279478	135.5680999	-0.4839440	0.2164798	-0.9678880	0.6784651	979122.526	979150.531	-28.005	33.574	-12.174	-6.605	-8.207	-2.638	-8.663	-3.094	-9.119	-3.550	-9.575	-4.006	-10.031
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
225000	557211.639	6933210.647	126.315	-27.7242301	135.5804007	-0.4838791	0.2164263	-0.9677582	0.6783439	979118.417	979150.254	-31.837	38.981	-14.135	-6.991	-9.529	-2.386	-10.058	-2.915	-10.588	-3.444	-11.117	-3.974	-11.646
225010	557269.645	6933270.704	127.632	-27.7236855	135.5809863	-0.4838696	0.2164185	-0.9677392	0.6783261	979118.034	979150.214	-32.180	39.387	-14.282	-7.075	-9.628	-2.421	-10.163	-2.956	-10.698	-3.491	-11.233	-4.026	-11.768
225020	557344.875	6933340.666	130.778	-27.7230508	135.5817461	-0.4838585	0.2164094	-0.9677170	0.6783054	979117.278	979150.167	-32.889	40.358	-14.634	-7.165	-9.866	-2.396	-10.414	-2.944	-10.962	-3.492	-11.510	-4.041	-12.058
225030	557417.605	6933417.444	132.756	-27.7223546	135.5824802	-0.4838464	0.2163994	-0.9676927	0.6782827	979116.693	979150.115	-33.422	40.969	-14.855	-7.309	-10.015	-2.468	-10.571	-3.025	-11.128	-3.581	-11.684	-4.137	-12.240
225040	557481.804	6933484.112	132.755	-27.7217500	135.5831282	-0.4838358	0.2163907	-0.9676716	0.6782630	979116.625	979150.070	-33.445	40.968	-14.855	-7.332	-10.015	-2.492	-10.571	-3.048	-11.128	-3.604	-11.684	-4.161	-12.240
225050	557556.233	6933552.995	131.356	-27.7211250	135.5838799	-0.4838249	0.2163817	-0.9676498	0.6782426	979116.918	979150.024	-33.106	40.536	-14.699	-7.268	-9.909	-2.478	-10.460	-3.029	-11.010	-3.579	-11.561	-4.130	-12.111
225060	557623.610	6933626.880	129.554	-27.7204551	135.5845599	-0.4838132	0.2163721	-0.9676264	0.6782208	979117.372	979149.974	-32.602	39.980	-14.497	-7.118	-9.773	-2.395	-10.316	-2.938	-10.859	-3.481	-11.402	-4.024	-11.945
225070	557695.687	6933693.695	126.726	-27.7198489	135.5852878	-0.4838026	0.2163634	-0.9676053	0.6782010	979118.084	979149.929	-31.845	39.108	-14.181	-6.918	-9.560	-2.297	-10.091	-2.828	-10.622	-3.359	-11.153	-3.890	-11.684
225080	557764.649	6933767.408	126.123	-27.7191805	135.5859838	-0.4837910	0.2163537	-0.9675819	0.6781792	979118.283	979149.879	-31.596	38.922	-14.113	-6.788	-9.514	-2.189	-10.043	-2.717	-10.572	-3.246	-11.100	-3.775	-11.629
225090	557838.107	6933836.436	128.602	-27.7185542	135.5867256	-0.4837800	0.2163447	-0.9675601	0.6781588	979117.867	979149.832	-31.965	39.687	-14.391	-6.669	-9.701	-1.980	-10.240	-2.519	-10.779	-3.058	-11.318	-3.597	-11.857
225100	557906.554	6933907.308	129.377	-27.7179115	135.5874165	-0.4837688	0.2163355	-0.9675376	0.6781378	979117.790	979149.785	-31.995	39.926	-14.477	-6.546	-9.760	-1.829	-10.302	-2.371	-10.844	-2.913	-11.387	-3.455	-11.929
225110	557978.388	6933978.214	130.264	-27.7172683	135.5881417	-0.4837576	0.2163263	-0.9675152	0.6781168	979117.674	979149.737	-32.063	40.199	-14.577	-6.440	-9.827	-1.690	-10.373	-2.236	-10.919	-2.782	-11.465	-3.328	-12.011
225120	558046.674	6934048.267	129.507	-27.7166330	135.5888310	-0.4837465	0.2163171	-0.9674930	0.6780961	979117.893	979149.690	-31.797	39.966	-14.492	-6.322	-9.770	-1.600	-10.313	-2.143	-10.855	-2.686	-11.398	-3.229	-11.941
225130	558117.298	6934119.526	126.553	-27.7159867	135.5895439	-0.4837352	0.2163078	-0.9674704	0.6780750	979118.598	979149.642	-31.044	39.054	-14.161	-6.150	-9.547	-1.536	-10.077	-2.067	-10.608	-2.597	-11.138	-3.127	-11.668
225140	558189.738	6934190.690	123.526	-27.7153411	135.5902753	-0.4837240	0.2162986	-0.9674479	0.6780540	979119.293	979149.594	-30.301	38.120	-13.823	-6.003	-9.319	-1.499	-9.836	-2.017	-10.354	-2.534	-10.872	-3.052	-11.389
225150	558261.271	6934262.191	118.949	-27.7146926	135.5909974	-0.4837126	0.2162892	-0.9674253	0.6780328	979120.301	979149.545	-29.244	36.708	-13.310	-5.847	-8.973	-1.510	-9.472	-2.008	-9.970	-2.507	-10.469	-3.005	-10.967
225160	558331.337	6934331.738	116.743	-27.7140617	135.5917047	-0.4837016	0.2162802	-0.9674033	0.6780123	979120.690	979149.498	-28.808	36.027	-13.064	-5.845	-8.807	-1.588	-9.296	-2.078	-9.785	-2.567	-10.275	-3.056	-10.764
225170	558403.500	6934406.660	112.335	-27.7133823	135.5924330	-0.4836898	0.2162704	-0.9673795	0.6779901	979121.646	979149.448	-27.802	34.667	-12.570	-5.706	-8.474	-1.610	-8.945	-2.080	-9.416	-2.551	-9.887	-3.022	-10.358
30003900	539005.759	6929993.679	97.436	-27.7539224	135.3958150	-0.4843973	0.2168533	-0.9687947	0.6793118	979104.704	979152.463	-47.759	30.069	-10.903	-28.593	-7.350	-25.041	-7.759	-25.449	-8.167	-25.857	-8.575	-26.266	-8.984
30003920	539200.167	6930002.162	97.529	-27.7538401	135.3977875	-0.4843959	0.2168521	-0.9687918	0.6793091	979104.727	979152.457	-47.730	30.097	-10.913	-28.546	-7.357	-24.990	-7.766	-25.399	-8.175	-25.807	-8.584	-26.216	-8.992
30003940	539400.295	6930000.818	97.799	-27.7538464	135.3998183	-0.4843960	0.2168522	-0.9687920	0.6793093	979104.736	979152.457	-47.721	30.181	-10.944	-28.484	-7.378	-24.918	-7.788	-25.328	-8.198	-25.738	-8.607	-26.148	-9.017
30003960	539599.330	6930000.141	98.013	-27.7538467	135.4018380	-0.4843960	0.2168522	-0.9687920	0.6793093	979104.850	979152.457	-47.607	30.247	-10.968	-28.328	-7.394	-24.755	-7.805	-25.165	-8.215	-25.576	-8.626	-25.987	-9.037
30003980	539799.631	6930001.254	98.046	-27.7538307	135.4038705	-0.4843957	0.2168520	-0.9687915	0.6793088	979104.932	979152.456	-47.524	30.257	-10.971	-28.239	-7.396	-24.664	-7.807	-25.075	-8.218	-25.485	-8.629	-25.896	-9.040
30004000	540000.091	6930000.562	98.104	-27.7538310	135.4059047	-0.4843957	0.2168520	-0.9687915	0.6793088	979105.067	979152.456	-47.389	30.275	-10.978	-28.092	-7.401	-24.515	-7.812	-24.926	-8.223	-25.337	-8.634	-25.749	-9.045
30004020	540200.441	6930001.042	97.889	-27.7538207	135.4079377	-0.4843956	0.2168518	-0.9687911	0.6793085	979105.293	979152.456	-47.163	30.209	-10.954	-27.908	-7.385	-24.339	-7.795	-24.749	-8.205	-25.159	-8.615	-25.569	-9.026
30004040	540399.284	6930001.481	97.840	-27.7538108	135.4099554	-0.4843954	0.2168517	-0.9687908	0.6793082	979105.516	979152.455	-46.939	30.193	-10.948	-27.694	-7.381	-24.126	-7.791	-24.536	-8.201	-24.946	-8.611	-25.356	-9.021
30004060	540599.224	6929999.590	98.056	-27.7538218	135.4119844	-0.4843956	0.2168519	-0.9687911	0.6793085	979105.753	979152.456	-46.703	30.260	-10.972	-27.415	-7.397	-23.840	-7.808	-24.251	-8.219	-24.662	-8.630	-25.073	-9.041
30004080	540802.831	6929999.927	98.282	-27.7538126	135.4140504	-0.4843954	0.2168517	-0.9687908	0.6793082	979106.117	979152.455	-46.338	30.330	-10.998	-27.006	-7.414	-23.422	-7.826	-23.834	-8.238	-24.246	-8.650	-24.658	-9.062
30004100	541000.424	6930001.216	97.722	-27.7537949	135.4160554	-0.4843951	0.2168515	-0.9687902	0.6793076	979106.677	979152.454	-45.777	30.157	-10.935	-26.555	-7.372	-22.992	-7.782	-23.401	-8.191	-23.811	-8.601	-24.220	-9.010
30004120	541201.120	6929999.407	98.238	-27.7538051	135.4180920	-0.4843953	0.2168516	-0.9687906	0.6793080	979107.074	979152.454	-45.380	30.316	-10.993	-26.057	-7.411	-22.475	-7.823	-22.887	-8.234	-23.298	-8.646	-23.710	-9.058
30004140	541399.828	6930000.348	99.081	-27.7537905	135.4201084	-0.4843950	0.2168514	-0.9687900	0.6793075	979107.376	979152.453	-45.077	30.576	-11.087	-25.588	-7.474	-21.975	-7.890	-22.391	-8.305	-22.806	-8.720	-23.221	-9.135
30004160	541601.153	6930000.691	98.762	-27.7537812	135.4221513	-0.4843949	0.2168513	-0.9687897	0.6793072	979107.922	979152.453	-44.531	30.478	-11.051	-25.104	-7.450	-21.503	-7.864	-21.917	-8.278	-22.331	-8.692	-22.745	-9.106
30004180	541797.518	6930001.102	98.869	-27.7537714	135.4241438	-0.4843947	0.2168511	-0.9687894	0.6793069	979108.318	979152.452	-44.134	30.511	-11.063	-24.686	-7.458	-21.081	-7.873	-21.496	-8.287	-21.910	-8.702	-22.324	-9.116
30004200	541998.596	6930000.703	99.074	-27.7537687	135.4261843	-0.4843946	0.2168511	-0.9687893	0.6793068	979108.542	979152.452	-43.910	30.574	-11.086	-24.422	-7.474	-20.809	-7.889	-21.225	-8.304	-21.640	-8.720	-22.055	-9.135
30004220	542200.008	6930000.542	99.132	-27.7537639	135.4282281	-0.4843946	0.2168510	-0.9687891	0.6793066	979108.760	979152.451	-43.691	30.592	-11.093	-24.192	-7.478	-20.577	-7.894	-20.993	-8.309	-21.408	-8.725	-21.824	-9.140
30004240	542399.061	6930000.035	98.943	-27.7537622	135.4302479	-0.4843945	0.2168510	-0.9687891	0.6793066	979108.972	979152.451	-43.479	30.534	-11.072	-24.017	-7.464	-20.409	-7.879	-20.824	-8.293	-21.239	-8.708	-21.653	-9.123

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
30004260	542597.378	6930001.027	98.812	-27.7537469	135.4322603	-0.4843943	0.2168508	-0.9687885	0.6793061	979109.020	979152.450	-43.430	30.493	-11.057	-23.994	-7.454	-20.391	-7.868	-20.805	-8.282	-21.219	-8.697	-21.633	-9.111
30004280	542800.177	6930000.089	98.165	-27.7537490	135.4343182	-0.4843943	0.2168508	-0.9687886	0.6793061	979109.160	979152.450	-43.290	30.294	-10.985	-23.981	-7.405	-20.402	-7.817	-20.813	-8.228	-21.225	-8.640	-21.636	-9.051
30004300	542997.508	6929999.951	98.299	-27.7537439	135.4363206	-0.4843942	0.2168507	-0.9687884	0.6793060	979109.138	979152.450	-43.312	30.335	-11.000	-23.976	-7.415	-20.392	-7.827	-20.804	-8.239	-21.216	-8.651	-21.628	-9.063
30004320	543195.273	6930000.267	97.628	-27.7537347	135.4383274	-0.4843941	0.2168506	-0.9687881	0.6793057	979109.251	979152.449	-43.198	30.128	-10.925	-23.995	-7.365	-20.435	-7.774	-20.844	-8.183	-21.253	-8.592	-21.662	-9.001
30004340	543395.016	6930000.880	96.757	-27.7537227	135.4403542	-0.4843938	0.2168504	-0.9687877	0.6793053	979109.347	979152.448	-43.101	29.859	-10.827	-24.069	-7.299	-20.541	-7.705	-20.947	-8.110	-21.352	-8.516	-21.758	-8.921
30004360	543600.542	6929999.987	97.846	-27.7537241	135.4424398	-0.4843939	0.2168505	-0.9687877	0.6793053	979109.036	979152.448	-43.412	30.195	-10.949	-24.166	-7.381	-20.598	-7.791	-21.008	-8.201	-21.419	-8.612	-21.829	-9.022
30004380	543798.012	6929999.480	96.442	-27.7537223	135.4444436	-0.4843938	0.2168504	-0.9687877	0.6793053	979109.228	979152.448	-43.220	29.762	-10.792	-24.250	-7.275	-20.734	-7.680	-21.138	-8.084	-21.542	-8.488	-21.946	-8.892
30004400	544001.278	6930000.595	95.379	-27.7537056	135.4465061	-0.4843935	0.2168502	-0.9687871	0.6793047	979109.416	979152.447	-43.031	29.434	-10.673	-24.270	-7.195	-20.792	-7.595	-21.192	-7.995	-21.592	-8.394	-21.991	-8.794
30004420	544184.529	6929997.234	95.097	-27.7537299	135.4483658	-0.4843940	0.2168505	-0.9687879	0.6793055	979109.385	979152.449	-43.064	29.347	-10.641	-24.358	-7.174	-20.891	-7.572	-21.289	-7.971	-21.688	-8.370	-22.086	-8.768
30004440	544399.082	6929999.405	98.134	-27.7537032	135.4505428	-0.4843935	0.2168502	-0.9687870	0.6793047	979108.660	979152.447	-43.787	30.284	-10.981	-24.484	-7.403	-20.906	-7.814	-21.317	-8.226	-21.728	-8.637	-22.139	-9.048
30004460	544597.474	6929999.535	97.930	-27.7536955	135.4525560	-0.4843934	0.2168500	-0.9687867	0.6793044	979108.665	979152.446	-43.781	30.221	-10.958	-24.518	-7.388	-20.948	-7.798	-21.358	-8.208	-21.768	-8.619	-22.179	-9.029
30004480	544798.579	6929999.936	98.127	-27.7536852	135.4545966	-0.4843932	0.2168499	-0.9687864	0.6793041	979108.751	979152.445	-43.694	30.282	-10.980	-24.393	-7.403	-20.815	-7.814	-21.226	-8.225	-21.637	-8.636	-22.049	-9.048
30004500	544997.751	6930000.839	97.767	-27.7536704	135.4566177	-0.4843929	0.2168497	-0.9687859	0.6793036	979108.913	979152.444	-43.531	30.171	-10.940	-24.301	-7.375	-20.736	-7.785	-21.146	-8.195	-21.555	-8.605	-21.965	-9.014
30004520	545196.569	6930000.411	97.564	-27.7536676	135.4586351	-0.4843929	0.2168496	-0.9687858	0.6793035	979109.096	979152.444	-43.348	30.108	-10.917	-24.157	-7.360	-20.600	-7.769	-21.009	-8.178	-21.418	-8.587	-21.827	-8.996
30004540	545394.972	6930000.302	97.770	-27.7536618	135.4606484	-0.4843928	0.2168496	-0.9687856	0.6793033	979109.191	979152.444	-43.253	30.172	-10.940	-24.021	-7.376	-20.456	-7.785	-20.866	-8.195	-21.276	-8.605	-21.686	-9.015
30004560	545599.895	6929999.361	97.442	-27.7536634	135.4627279	-0.4843928	0.2168496	-0.9687856	0.6793034	979109.426	979152.444	-43.018	30.071	-10.904	-23.851	-7.351	-20.298	-7.759	-20.706	-8.168	-21.115	-8.576	-21.523	-8.984
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
22404640	546399.565	6922431.352	78.673	-27.8219545	135.4711367	-0.4855847	0.2178327	-0.9711694	0.6815266	979121.115	979157.530	-36.415	24.278	-8.803	-20.940	-5.935	-18.071	-6.265	-18.401	-6.594	-18.730	-6.924	-19.060	-7.254
22404720	547200.314	6922399.674	78.238	-27.8222124	135.4792685	-0.4855892	0.2178365	-0.9711784	0.6815350	979123.243	979157.549	-34.306	24.144	-8.755	-18.916	-5.902	-16.064	-6.230	-16.392	-6.558	-16.720	-6.886	-17.047	-7.214
22404800	547995.640	6922405.023	78.721	-27.8221359	135.4873437	-0.4855879	0.2178354	-0.9711758	0.6815325	979124.833	979157.543	-32.710	24.293	-8.809	-17.226	-5.939	-14.355	-6.268	-14.685	-6.598	-15.015	-6.928	-15.345	-7.258
22404880	548797.121	6922400.189	81.383	-27.8221506	135.4954818	-0.4855881	0.2178356	-0.9711763	0.6815329	979125.843	979157.544	-31.701	25.115	-9.107	-15.693	-6.139	-12.726	-6.480	-13.067	-6.822	-13.408	-7.163	-13.749	-7.504
22404960	549592.837	6922398.478	84.943	-27.8221368	135.5035613	-0.4855879	0.2178354	-0.9711758	0.6815325	979126.473	979157.543	-31.070	26.213	-9.505	-14.362	-6.408	-11.265	-6.764	-11.621	-7.120	-11.977	-7.476	-12.333	-7.832
22405040	550392.692	6922400.724	78.937	-27.8220867	135.5116826	-0.4855870	0.2178347	-0.9711740	0.6815309	979129.325	979157.539	-28.214	24.360	-8.833	-12.688	-5.955	-9.809	-6.286	-10.140	-6.616	-10.471	-6.947	-10.802	-7.278
22405120	551189.205	6922399.193	81.328	-27.8220703	135.5197701	-0.4855867	0.2178344	-0.9711735	0.6815303	979130.302	979157.538	-27.236	25.098	-9.101	-11.239	-6.135	-8.274	-6.476	-8.614	-6.817	-8.955	-7.158	-9.296	-7.499
22405200	551994.312	6922396.697	80.830	-27.8220618	135.5279449	-0.4855866	0.2178343	-0.9711732	0.6815301	979131.860	979157.538	-25.678	24.944	-9.045	-9.778	-6.098	-6.831	-6.436	-7.170	-6.775	-7.509	-7.114	-7.847	-7.453
22405280	552802.153	6922404.843	82.832	-27.8219566	135.5361470	-0.4855847	0.2178328	-0.9711695	0.6815266	979132.495	979157.530	-25.035	25.562	-9.269	-8.742	-6.249	-5.721	-6.596	-6.069	-6.943	-6.416	-7.290	-6.763	-7.637
22405360	553606.600	6922392.974	83.474	-27.8220318	135.5443155	-0.4855861	0.2178339	-0.9711721	0.6815291	979133.131	979157.535	-24.404	25.760	-9.341	-7.985	-6.297	-4.941	-6.647	-5.291	-6.997	-5.641	-7.347	-5.991	-7.696
22405440	554404.641	6922402.652	82.972	-27.8219123	135.5524180	-0.4855840	0.2178321	-0.9711679	0.6815252	979133.805	979157.526	-23.721	25.605	-9.285	-7.401	-6.259	-4.376	-6.607	-4.723	-6.955	-5.071	-7.302	-5.419	-7.650
22405520	555204.123	6922404.894	80.374	-27.8218593	135.5605354	-0.4855830	0.2178314	-0.9711661	0.6815235	979134.593	979157.523	-22.930	24.803	-8.994	-7.120	-6.063	-4.189	-6.400	-4.526	-6.737	-4.863	-7.074	-5.200	-7.411
22405600	556000.123	6922397.238	79.431	-27.8218954	135.5686179	-0.4855837	0.2178319	-0.9711674	0.6815246	979134.541	979157.525	-22.984	24.512	-8.888	-7.360	-5.992	-4.464	-6.325	-4.797	-6.658	-5.130	-6.991	-5.463	-7.324
22405680	556806.563	6922401.790	76.581	-27.8218203	135.5768058	-0.4855824	0.2178308	-0.9711647	0.6815222	979135.078	979157.520	-22.442	23.633	-8.569	-7.378	-5.777	-4.586	-6.098	-4.907	-6.419	-5.228	-6.740	-5.549	-7.061
22405760	557603.946	6922391.517	74.909	-27.8218790	135.5849025	-0.4855834	0.2178317	-0.9711668	0.6815241	979135.543	979157.524	-21.981	23.117	-8.382	-7.246	-5.651	-4.515	-5.965	-4.829	-6.279	-5.143	-6.593	-5.457	-6.907
22405840	558401.369	6922403.741	75.993	-27.8217341	135.5929985	-0.4855809	0.2178296	-0.9711617	0.6815194	979135.251	979157.513	-22.262	23.451	-8.504	-7.314	-5.733	-4.544	-6.051	-4.862	-6.370	-5.180	-6.688	-5.499	-7.007
22405920	559194.325	6922394.072	79.217	-27.8217866	135.6010502	-0.4855818	0.2178303	-0.9711636	0.6815211	979134.195	979157.517	-23.322	24.446	-8.864	-7.740	-5.976	-4.852	-6.308	-5.184	-6.640	-5.516	-6.972	-5.848	-7.304
22406000	560000.703	6922396.271	83.391	-27.8217309	135.6092375	-0.4855808	0.2178295	-0.9711616	0.6815193	979133.010	979157.513	-24.503	25.734	-9.331	-8.100	-6.291	-5.059	-6.640	-5.409	-6.990	-5.758	-7.339	-6.108	-7.689
23204640	546427.899	6923214.105	81.320	-27.8148874	135.4713939	-0.4854614	0.2177309	-0.9709227	0.6812967	979119.958	979157.003	-37.045	25.095	-9.100	-21.049	-6.135	-18.084	-6.475	-18.425	-6.816	-18.766	-7.157	-19.107	-7.498
23204720	547198.000	6923191.976	85.972	-27.8150602	135.4792136	-0.4854644	0.2177334	-0.9709288	0.6813023	979120.901	979157.016	-36.115	26.531	-9.620	-19.204	-6.486	-16.069	-6.846	-16.430	-7.206	-16.790	-7.566	-17.150	-7.927
23204800	547998.881	6923198.063	82.809	-27.8149768	135.4873447	-0.4854629	0.2177322	-0.9709259	0.6812996	979123.225	979157.010	-33.785	25.555	-9.266	-17.496	-6.247	-14.477	-6.594	-14.824	-6.941	-15.171	-7.288	-15.518	-7.635
23204880	548797.150	6923200.140	84.614	-27.8149293	135.4954494	-0.4854621	0.2177315	-0.9709242	0.6812980	979124.520	979157.006	-32.486	26.112	-9.468	-15.842	-6.383	-12.757	-6.738	-13.112	-7.092	-13.467	-7.447	-13.821	-7.802
23204960	549597.911	6923194.029	79.750	-27.8149550	135.5035797	-0.4854625	0.2177319	-0.9709251	0.6812989	979127.407	979157.008	-29.601	24.611	-8.924	-13.914	-6.016	-11.006	-6.350	-11.341	-6.685	-11.675	-7.019	-12.009	-7.353
23205040	550406.014	6923199.654	79.751	-27.8148741	135.5117840	-0.4854611	0.2177307	-0.9709223	0.6812963	979129.328	979157.002	-27.674	24.611	-8.924	-11.987	-6.016	-9.079	-6.350	-9.413	-6.685	-9.747	-7.019	-10.082	-7.353
23205120	551198.561	6923208.647	86.225	-27.8147628	135.5198303	-0.4854592	0.2177291	-0.9709184	0.6812926	979129.760	979156.994	-27.234	26.609	-9.649	-10.273	-6.505	-7.129	-6.866	-7.491	-7.227	-7.852	-7.589	-8.213	-7.950
23205200	551998.285	6923202.705	83.964	-27.8147857	135.5279501	-0.4854596	0.2177295	-0.9709192	0.6812934	979131.957	979156.995	-25.038	25.911	-9.396	-8.523	-6.334	-5.461	-6.686	-5.813	-7.038	-6.165	-7.390	-6.517	-7.742
23205280	552795.246	6923201.912	84.777	-27.8147617	135.5360415	-0.4854592	0.2177291	-0.9709183	0.6812926	979133.002	979156.994	-23.992	26.162	-9.487	-7.316	-6.395	-4.225	-6.751	-4.580	-7.106	-4.935	-7.461	-5.291	-7.817
23205360	553599.447	6923200.371	84.244	-27.8147436	135.5442065	-0.4854589	0.2177289	-0.9709177	0.6812920	979133.827	979156.992	-23.165	25.998	-9.427	-6.594	-6.355	-3.523	-6.708	-3.876	-7.061	-4.229	-7.414	-4.582	-7.767
23205440	554397.357	6923200.574	83.801	-27.8147096	135.5523076	-0.4854583	0.2177284	-0.9709165	0.6812909	979134.264	979156.990	-22.726	25.861	-9.377	-6.242	-6.322	-3.186	-6.673	-3.538	-7.024	-3.889	-7.375	-4.240	-7.727
23205520	555199.329	6923196.798	83.790	-27.8147109	135.5604500	-0.4854583	0.2177284	-0.9709166	0.6812909	979134.213	979156.990	-22.777	25.858	-9.376	-6.295	-6.321	-3.240	-6.672	-3.591	-7.023	-3.942	-7.374	-4.294	-7.726
23205600	555992.631	6923192.673	83.357	-27.8147152	135.5685044	-0.4854584	0.2177284	-0.9709167	0.6812911	979133.967	979156.990	-23.023	25.724	-9.328	-6.627	-6.288	-3.587	-6.638	-3.937	-6.987	-4.286	-7.336	-4.635	-7.686
23205680	556792.570	6923207.123	75.062	-27.8145511	135.5766254	-0.4854555	0.2177261	-0.9709110	0.6812857	979135.585	979156.978	-21.393	23.164	-8.399	-6.628	-5.663	-3.891	-5.977	-4.206	-6.292	-4.520	-6.606	-4.835	-6.921
23205760	557590.971	6923202.361	76.019	-27.8145600	135.5847316	-0.4854557	0.2177262	-0.9709113	0.6812860	979135.224	979156.979	-21.755	23.459	-8.507	-6.802	-5.735	-4.030	-6.053	-4.348	-6.372	-4.667	-6.691	-4.986	-7.009
23205840	558385.661	6923203.286	76.718	-27.8145173	135.5927998	-0.4854549	0.2177256	-0.9709098	0.6812846	979134.998	979156.975	-21.977	23.675	-8.585	-6.887	-5.787	-4.090	-6.109	-4.411	-6.431	-4.733	-6.752	-5.054	-7.074
23205920	559185.168	6923200.096	79.271	-27.8145110	135.6009171	-0.4854548	0.2177255	-0.9709096	0.6812844	979134.198	979156.975	-22.777	24.463	-8.870	-7.184	-5.980	-4.294	-6.312	-4.626	-6.644	-4.958	-6.977	-5.291	-7.309
23206000	560009.303	6923202.011	87.404	-27.8144570	135.6092842	-0.4854539	0.2177247	-0.9709077	0.6812827	979131.755	979156.971	-25.216	26.973	-9.780	-8.023	-6.594	-4.837	-6.960	-5.203	-7.326	-5.569	-7.693	-5.935	-8.059
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
225170	558398.348	6934404.613	112.615	-27.7134010	135.5923809	-0.4836901	0.2162707	-0.9673802	0.6779907	979121.547	979149.449	-27.902	34.753	-12.602	-5.751	-8.495	-1.645	-8.967	-2.117	-9.439	-2.589	-9.911	-3.061	-10.383
225180	558473.790	6934474.488	114.214	-27.7127669	135.5931427	-0.4836790	0.2162616	-0.9673581	0.6779700	979121.041	979149.402	-28.361	35.246	-12.781	-5.895	-8.616	-1.731	-9.095	-2.209	-9.573	-2.688	-10.052	-3.167	-10.531
225190	558544.668	6934545.596	115.719	-27.7121219	135.5938581	-0.4836678	0.2162523	-0.9673355	0.6779490	979120.533	979149.354	-28.821	35.711	-12.949	-6.059	-8.730	-1.840	-9.215	-2.325	-9.700	-2.810	-10.185	-3.295	-10.670
225200	558614.623	6934614.040	117.483	-27.7115010	135.5945644	-0.4836569	0.2162434	-0.9673139	0.6779287	979119.947	979149.308	-29.361	36.255	-13.146	-6.252	-8.863	-1.968	-9.355	-2.461	-9.847	-2.953	-10.340	-3.446	-10.832
225210	558686.353	6934686.141	120.464	-27.7108470	135.5952884	-0.4836455	0.2162340	-0.9672910	0.6779074	979118.997	979149.259	-30.262	37.175	-13.480	-6.567	-9.088	-2.175	-9.592	-2.680	-10.097	-3.185	-10.602	-3.689	-11.107
225220	558757.592	6934758.385	122.500	-27.7101918	135.5960074	-0.4836341	0.2162246	-0.9672682	0.6778860	979118.290	979149.211	-30.921	37.804	-13.708	-6.825	-9.241	-2.358	-9.755	-2.872	-10.268	-3.385	-10.781	-3.899	-11.295
225230	558826.286	6934824.975	119.374	-27.7095877	135.5967009	-0.4836235	0.2162159	-0.9672471	0.6778663	979118.760	979149.166	-30.406	36.839	-13.358	-6.925	-9.005	-2.572	-9.506	-3.073	-10.006	-3.573	-10.506	-4.073	-11.007
225240	558894.905	6934896.894	115.439	-27.7089354	135.5973934	-0.4836122	0.2162065	-0.9672243	0.6778450	979119.380	979149.117	-29.737	35.624	-12.918	-7.030	-8.708	-2.821	-9.192	-3.305	-9.676	-3.789	-10.160	-4.273	-10.644
225250	558966.762	6934968.403	112.785	-27.7082868	135.5981187	-0.4836008	0.2161972	-0.9672017	0.6778239	979119.730	979149.069	-29.339	34.805	-12.621	-7.154	-8.508	-3.042	-8.981	-3.515	-9.454	-3.987	-9.926	-4.460	-10.399
225260	559032.633	6935041.384	112.051	-27.7076251	135.5987832	-0.4835893	0.2161877	-0.9671786	0.6778023	979119.584	979149.020	-29.436	34.579	-12.538	-7.395	-8.453	-3.310	-8.923	-3.780	-9.392	-4.249	-9.862	-4.719	-10.331
225270	559108.844	6935105.033	116.439	-27.7070471	135.5995531	-0.4835792	0.2161794	-0.9671584	0.6777834	979118.332	979148.977	-30.645	35.933	-13.029	-7.741	-8.784	-3.496	-9.272	-3.984	-9.760	-4.472	-10.248	-4.960	-10.736
225280	559175.946	6935175.884	117.911	-27.7064046	135.6002302	-0.4835680	0.2161701	-0.9671360	0.6777625	979117.708	979148.929	-31.221	36.387	-13.194	-8.028	-8.895	-3.729	-9.389	-4.223	-9.883	-4.717	-10.377	-5.211	-10.872
225290	559246.772	6935251.266	123.693	-27.7057210	135.6009448	-0.4835561	0.2161603	-0.9671121	0.6777402	979116.077	979148.878	-32.801	38.172	-13.841	-8.471	-9.331	-3.961	-9.850	-4.479	-10.368	-4.998	-10.886	-5.516	-11.405
225300	559316.177	6935324.378	133.792	-27.7050580	135.6016452	-0.4835445	0.2161508	-0.9670890	0.6777185	979113.382	979148.829	-35.447	41.288	-14.971	-9.130	-10.093	-4.252	-10.654	-4.813	-11.214	-5.373	-11.775	-5.934	-12.336
20804640	546401.630	6920802.898	79.303	-27.8366548	135.4712212	-0.4858413	0.2180446	-0.9716826	0.6820046	979121.532	979158.625	-37.093	24.473	-8.874	-21.495	-5.982	-18.603	-6.315	-18.935	-6.647	-19.268	-6.980	-19.600	-7.312
20804720	547196.324	6920800.352	78.590	-27.8366500	135.4792914	-0.4858412	0.2180445	-0.9716824	0.6820044	979122.999	979158.625	-35.626	24.253	-8.794	-20.167	-5.929	-17.302	-6.258	-17.631	-6.587	-17.961	-6.917	-18.290	-7.246
20804800	547991.602	6920798.404	77.766	-27.8366393	135.4873675	-0.4858410	0.2180444	-0.9716820	0.6820041	979124.615	979158.624	-34.009	23.999	-8.702	-18.713	-5.867	-15.877	-6.192	-16.203	-6.518	-16.529	-6.844	-16.855	-7.170
20804880	548795.690	6920799.447	77.299	-27.8366008	135.4955329	-0.4858403	0.2180438	-0.9716807	0.6820028	979126.217	979158.621	-32.404	23.854	-8.650	-17.200	-5.831	-14.381	-6.155	-14.705	-6.479	-15.029	-6.803	-15.353	-7.127
20804960	549589.984	6920803.729	75.892	-27.8365330	135.5035988	-0.4858392	0.2180428	-0.9716783	0.6820006	979128.219	979158.616	-30.397	23.420	-8.492	-15.469	-5.725	-12.702	-6.043	-13.020	-6.361	-13.338	-6.679	-13.656	-6.997
20805040	550398.730	6920794.121	75.961	-27.8365895	135.5118119	-0.4858401	0.2180437	-0.9716803	0.6820025	979129.720	979158.621	-28.901	23.442	-8.500	-13.959	-5.730	-11.189	-6.049	-11.508	-6.367	-11.826	-6.685	-12.144	-7.004
20805120	551209.203	6920790.071	75.911	-27.8365953	135.5200424	-0.4858402	0.2180437	-0.9716805	0.6820027	979130.863	979158.621	-27.758	23.426	-8.494	-12.826	-5.727	-10.058	-6.045	-10.377	-6.363	-10.695	-6.681	-11.013	-6.999
20805200	552000.810	6920803.202	75.253	-27.8364462	135.5280805	-0.4858376	0.2180416	-0.9716753	0.6819978	979132.000	979158.610	-26.610	23.223	-8.421	-11.808	-5.677	-9.064	-5.992	-9.379	-6.308	-9.695	-6.623	-10.010	-6.938
20805280	552790.602	6920799.818	73.930	-27.8364459	135.5361009	-0.4858376	0.2180416	-0.9716753	0.6819978	979133.140	979158.610	-25.470	22.815	-8.273	-10.928	-5.577	-8.232	-5.887	-8.542	-6.197	-8.852	-6.507	-9.162	-6.816
20805360	553594.536	6920785.697	74.439	-27.8365414	135.5442654	-0.4858393	0.2180430	-0.9716786	0.6820009	979133.920	979158.617	-24.697	22.972	-8.330	-10.055	-5.616	-7.341	-5.928	-7.653	-6.239	-7.965	-6.551	-8.277	-6.863
20805440	554395.201	6920792.820	73.808	-27.8364448	135.5523957	-0.4858376	0.2180416	-0.9716752	0.6819978	979134.748	979158.610	-23.862	22.777	-8.259	-9.344	-5.568	-6.653	-5.877	-6.962	-6.187	-7.271	-6.496	-7.581	-6.805
20805520	555208.070	6920801.324	83.041	-27.8363347	135.5606498	-0.4858357	0.2180400	-0.9716714	0.6819942	979132.802	979158.602	-25.800	25.626	-9.292	-9.465	-6.264	-6.438	-6.612	-6.786	-6.960	-7.134	-7.309	-7.482	-7.657
20805600	555994.835	6920794.815	81.226	-27.8363608	135.5686396	-0.4858361	0.2180404	-0.9716723	0.6819950	979133.476	979158.604	-25.128	25.066	-9.089	-9.150	-6.128	-6.189	-6.468	-6.529	-6.808	-6.870	-7.149	-7.210	-7.489

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
20805680	556803.347	6920799.064	82.640	-27.8362884	135.5768497	-0.4858349	0.2180393	-0.9716698	0.6819927	979133.626	979158.598	-24.972	25.503	-9.247	-8.717	-6.234	-5.704	-6.581	-6.050	-6.927	-6.396	-7.273	-6.743	-7.620
20805760	557584.283	6920801.562	72.804	-27.8362325	135.5847798	-0.4858339	0.2180385	-0.9716678	0.6819909	979136.267	979158.594	-22.327	22.467	-8.147	-8.006	-5.492	-5.352	-5.797	-5.657	-6.102	-5.962	-6.408	-6.267	-6.713
20805840	558402.066	6920793.643	73.920	-27.8362685	135.5930846	-0.4858345	0.2180390	-0.9716691	0.6819920	979136.131	979158.597	-22.466	22.812	-8.272	-7.926	-5.576	-5.230	-5.886	-5.540	-6.196	-5.850	-6.506	-6.160	-6.816
20805920	559202.313	6920795.049	77.865	-27.8362207	135.6012108	-0.4858337	0.2180383	-0.9716674	0.6819905	979135.263	979158.593	-23.330	24.029	-8.713	-8.014	-5.874	-5.175	-6.200	-5.501	-6.527	-5.828	-6.853	-6.154	-7.179
20806000	560002.648	6920799.851	80.691	-27.8361417	135.6093377	-0.4858323	0.2180372	-0.9716646	0.6819879	979134.859	979158.587	-23.728	24.901	-9.029	-7.856	-6.087	-4.914	-6.425	-5.252	-6.764	-5.590	-7.102	-5.929	-7.440
21604640	546401.482	6921609.884	79.198	-27.8293700	135.4711882	-0.4857141	0.2179396	-0.9714283	0.6817677	979121.206	979158.082	-36.876	24.441	-8.862	-21.298	-5.975	-18.410	-6.306	-18.742	-6.638	-19.074	-6.970	-19.406	-7.302
21604720	547210.834	6921609.490	78.337	-27.8293452	135.4794066	-0.4857137	0.2179392	-0.9714274	0.6817669	979123.249	979158.081	-34.832	24.175	-8.766	-19.423	-5.910	-16.566	-6.238	-16.895	-6.566	-17.223	-6.895	-17.551	-7.223
21604800	548003.417	6921599.524	77.449	-27.8294070	135.4874552	-0.4857148	0.2179401	-0.9714296	0.6817689	979125.201	979158.085	-32.884	23.901	-8.667	-17.650	-5.843	-14.826	-6.167	-15.151	-6.492	-15.475	-6.816	-15.800	-7.141
21604880	548786.572	6921608.456	76.734	-27.8292981	135.4954072	-0.4857129	0.2179386	-0.9714258	0.6817654	979127.120	979158.077	-30.957	23.680	-8.587	-15.863	-5.789	-13.066	-6.110	-13.387	-6.432	-13.709	-6.753	-14.030	-7.075
21604960	549591.004	6921605.868	76.828	-27.8292919	135.5035757	-0.4857128	0.2179385	-0.9714255	0.6817652	979128.666	979158.077	-29.411	23.709	-8.597	-14.298	-5.796	-11.497	-6.118	-11.819	-6.440	-12.141	-6.762	-12.463	-7.084
21605040	550431.867	6921611.795	76.690	-27.8292070	135.5121138	-0.4857113	0.2179373	-0.9714226	0.6817624	979129.920	979158.070	-28.150	23.667	-8.582	-13.065	-5.785	-10.269	-6.107	-10.590	-6.428	-10.912	-6.750	-11.233	-7.071
21605120	551199.200	6921600.835	77.313	-27.8292768	135.5199059	-0.4857125	0.2179383	-0.9714250	0.6817647	979130.939	979158.075	-27.136	23.859	-8.651	-11.929	-5.832	-9.110	-6.156	-9.434	-6.480	-9.758	-6.804	-10.082	-7.128
21605200	552002.888	6921603.026	75.732	-27.8292260	135.5280667	-0.4857116	0.2179375	-0.9714232	0.6817630	979132.509	979158.072	-25.563	23.371	-8.474	-10.666	-5.713	-7.905	-6.030	-8.222	-6.348	-8.540	-6.665	-8.857	-6.983
21605280	552799.469	6921603.982	76.311	-27.8291862	135.5361553	-0.4857109	0.2179370	-0.9714219	0.6817618	979133.287	979158.069	-24.782	23.550	-8.539	-9.771	-5.757	-6.989	-6.077	-7.309	-6.396	-7.628	-6.716	-7.948	-7.036
21605360	553600.257	6921602.273	78.176	-27.8291698	135.5442867	-0.4857106	0.2179367	-0.9714213	0.6817612	979133.654	979158.067	-24.413	24.125	-8.748	-9.036	-5.897	-6.186	-6.225	-6.513	-6.553	-6.841	-6.880	-7.169	-7.208
21605440	554402.560	6921603.013	82.196	-27.8291308	135.5524334	-0.4857100	0.2179362	-0.9714199	0.6817599	979133.349	979158.065	-24.716	25.366	-9.198	-8.548	-6.201	-5.551	-6.545	-5.895	-6.890	-6.240	-7.234	-6.584	-7.579
21605520	555196.468	6921596.862	79.965	-27.8291538	135.5604951	-0.4857104	0.2179365	-0.9714207	0.6817607	979134.061	979158.066	-24.005	24.677	-8.948	-8.276	-6.032	-5.360	-6.368	-5.696	-6.703	-6.031	-7.038	-6.366	-7.373
21605600	555994.392	6921606.191	77.549	-27.8290365	135.5685969	-0.4857083	0.2179348	-0.9714166	0.6817569	979134.711	979158.058	-23.347	23.932	-8.678	-8.093	-5.850	-5.265	-6.175	-5.590	-6.500	-5.915	-6.825	-6.240	-7.150
21605680	556794.151	6921594.336	74.717	-27.8291098	135.5767183	-0.4857096	0.2179359	-0.9714192	0.6817593	979135.554	979158.063	-22.509	23.058	-8.361	-7.812	-5.637	-5.088	-5.950	-5.401	-6.263	-5.714	-6.576	-6.027	-6.889
21605760	557589.876	6921596.042	73.258	-27.8290604	135.5847981	-0.4857087	0.2179351	-0.9714175	0.6817577	979136.088	979158.059	-21.971	22.607	-8.198	-7.561	-5.526	-4.890	-5.833	-5.197	-6.140	-5.504	-6.448	-5.811	-6.755
21605840	558390.145	6921597.569	75.225	-27.8290120	135.5929241	-0.4857079	0.2179344	-0.9714158	0.6817561	979135.623	979158.056	-22.433	23.214	-8.418	-7.636	-5.675	-4.893	-5.990	-5.208	-6.305	-5.524	-6.621	-5.839	-6.936
21605920	559193.608	6921594.678	79.287	-27.8290028	135.6010826	-0.4857077	0.2179343	-0.9714155	0.6817558	979134.476	979158.055	-23.579	24.468	-8.872	-7.983	-5.981	-5.092	-6.314	-5.425	-6.646	-5.757	-6.978	-6.089	-7.310
21606000	560003.719	6921596.978	82.546	-27.8289460	135.6093084	-0.4857067	0.2179335	-0.9714135	0.6817539	979133.569	979158.051	-24.482	25.474	-9.237	-8.245	-6.227	-5.235	-6.573	-5.581	-6.919	-5.927	-7.265	-6.273	-7.611
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
225300	559316.001	6935324.296	133.762	-27.7050587	135.6016434	-0.4835445	0.2161508	-0.9670890	0.6777185	979113.415	979148.829	-35.414	41.279	-14.968	-9.103	-10.091	-4.226	-10.651	-4.787	-11.212	-5.347	-11.773	-5.908	-12.333
225310	559392.562	6935385.804	135.217	-27.7045001	135.6024169	-0.4835347	0.2161428	-0.9670695	0.6777003	979112.757	979148.788	-36.031	41.728	-15.131	-9.433	-10.201	-4.503	-10.767	-5.070	-11.334	-5.637	-11.901	-6.203	-12.467
225320	559461.483	6935459.205	127.751	-27.7038344	135.6031122	-0.4835231	0.2161332	-0.9670463	0.6776786	979114.254	979148.738	-34.484	39.424	-14.295	-9.356	-9.637	-4.698	-10.173	-5.233	-10.708	-5.768	-11.243	-6.304	-11.779
225330	559530.366	6935532.408	124.171	-27.7031706	135.6038073	-0.4835115	0.2161237	-0.9670231	0.6776569	979114.795	979148.689	-33.894	38.319	-13.895	-9.469	-9.367	-4.942	-9.888	-5.462	-10.408	-5.983	-10.928	-6.503	-11.449
225340	559604.033	6935600.719	122.495	-27.7025507	135.6045510	-0.4835007	0.2161148	-0.9670014	0.6776362	979114.847	979148.643	-33.796	37.802	-13.707	-9.701	-9.241	-5.235	-9.754	-5.748	-10.268	-6.261	-10.781	-6.775	-11.294
225350	559675.801	6935673.495	123.209	-27.7018905	135.6052753	-0.4834892	0.2161053	-0.9669784	0.6776152	979114.346	979148.594	-34.248	38.022	-13.787	-10.012	-9.295	-5.520	-9.811	-6.036	-10.327	-6.553	-10.844	-7.069	-11.360
225360	559741.408	6935744.473	124.016	-27.7012469	135.6059371	-0.4834780	0.2160960	-0.9669559	0.6775942	979113.885	979148.546	-34.661	38.271	-13.877	-10.267	-9.356	-5.745	-9.875	-6.265	-10.395	-6.785	-10.915	-7.304	-11.435
225370	559816.164	6935814.942	124.516	-27.7006074	135.6066918	-0.4834668	0.2160869	-0.9669336	0.6775733	979113.428	979148.498	-35.070	38.426	-13.933	-10.578	-9.393	-6.038	-9.915	-6.560	-10.437	-7.082	-10.959	-7.604	-11.481
225380	559884.888	6935885.225	125.912	-27.6999699	135.6073853	-0.4834557	0.2160777	-0.9669114	0.6775525	979112.768	979148.451	-35.683	38.856	-14.090	-10.916	-9.499	-6.325	-10.026	-6.853	-10.554	-7.380	-11.082	-7.908	-11.609
225390	559956.540	6935957.029	122.535	-27.6993185	135.6081084	-0.4834443	0.2160683	-0.9668886	0.6775312	979113.270	979148.403	-35.133	37.814	-13.712	-11.030	-9.244	-6.562	-9.757	-7.076	-10.271	-7.589	-10.784	-8.103	-11.298
225400	560027.510	6936026.306	121.360	-27.6986900	135.6088247	-0.4834333	0.2160593	-0.9668667	0.6775107	979113.186	979148.356	-35.170	37.452	-13.580	-11.298	-9.155	-6.873	-9.664	-7.382	-10.172	-7.891	-10.681	-8.399	-11.190
52403200	552400.965	6932000.676	97.841	-27.7353489	135.5316522	-0.4840732	0.2165862	-0.9681463	0.6787064	979121.905	979151.081	-29.176	30.194	-10.948	-9.931	-7.381	-6.364	-7.791	-6.774	-8.201	-7.184	-8.611	-7.594	-9.021
52403210	552400.563	6932101.941	97.658	-27.7344348	135.5316436	-0.4840572	0.2165730	-0.9681144	0.6786766	979121.781	979151.013	-29.232	30.137	-10.928	-10.023	-7.367	-6.462	-7.776	-6.871	-8.186	-7.281	-8.595	-7.690	-9.004
52403220	552398.631	6932196.401	98.300	-27.7335822	135.5316199	-0.4840423	0.2165608	-0.9680846	0.6786488	979121.460	979150.950	-29.490	30.335	-11.000	-10.154	-7.416	-6.570	-7.828	-6.982	-8.240	-7.394	-8.651	-7.806	-9.063
52403230	552398.142	6932299.219	98.562	-27.7326540	135.5316104	-0.4840261	0.2165474	-0.9680522	0.6786186	979121.252	979150.881	-29.629	30.416	-11.029	-10.242	-7.435	-6.648	-7.848	-7.061	-8.261	-7.474	-8.675	-7.887	-9.088
52403240	552398.555	6932395.192	98.877	-27.7317876	135.5316104	-0.4840110	0.2165350	-0.9680220	0.6785903	979121.054	979150.816	-29.762	30.513	-11.064	-10.313	-7.459	-6.708	-7.873	-7.122	-8.288	-7.537	-8.702	-7.951	-9.117
52403250	552398.734	6932496.999	99.228	-27.7308686	135.5316078	-0.4839950	0.2165218	-0.9679899	0.6785604	979120.875	979150.748	-29.873	30.622	-11.104	-10.355	-7.486	-6.737	-7.901	-7.153	-8.317	-7.569	-8.733	-7.984	-9.149
52403260	552402.752	6932603.297	99.637	-27.7299088	135.5316439	-0.4839782	0.2165080	-0.9679564	0.6785291	979120.659	979150.677	-30.018	30.748	-11.149	-10.419	-7.516	-6.786	-7.934	-7.204	-8.352	-7.621	-8.769	-8.039	-9.187
52403270	552397.427	6932695.219	100.955	-27.7290792	135.5315858	-0.4839637	0.2164960	-0.9679275	0.6785020	979120.183	979150.615	-30.432	31.155	-11.297	-10.574	-7.616	-6.893	-8.039	-7.316	-8.462	-7.739	-8.885	-8.162	-9.308
52403280	552399.996	6932797.335	101.869	-27.7281573	135.5316074	-0.4839476	0.2164828	-0.9678953	0.6784720	979119.900	979150.546	-30.646	31.437	-11.399	-10.609	-7.685	-6.894	-8.112	-7.321	-8.539	-7.748	-8.966	-8.175	-9.393
52403290	552401.207	6932898.891	102.771	-27.7272405	135.5316153	-0.4839316	0.2164696	-0.9678633	0.6784421	979119.676	979150.478	-30.802	31.715	-11.500	-10.587	-7.753	-6.840	-8.184	-7.271	-8.614	-7.701	-9.045	-8.132	-9.476
52403300	552402.156	6932996.695	103.541	-27.7263576	135.5316206	-0.4839162	0.2164569	-0.9678325	0.6784133	979119.483	979150.413	-30.930	31.953	-11.586	-10.563	-7.811	-6.788	-8.245	-7.222	-8.679	-7.656	-9.113	-8.090	-9.547
52403310	552398.515	6933098.044	104.022	-27.7254428	135.5315792	-0.4839003	0.2164438	-0.9678005	0.6783834	979119.298	979150.345	-31.047	32.101	-11.640	-10.585	-7.847	-6.793	-8.283	-7.229	-8.719	-7.665	-9.155	-8.100	-9.591
52403320	552399.735	6933198.544	104.486	-27.7245355	135.5315872	-0.4838844	0.2164307	-0.9677689	0.6783539	979119.181	979150.277	-31.096	32.244	-11.692	-10.544	-7.882	-6.734	-8.320	-7.172	-8.758	-7.610	-9.196	-8.048	-9.634
52403330	552400.937	6933296.351	103.662	-27.7236525	135.5315951	-0.4838690	0.2164180	-0.9677380	0.6783251	979119.414	979150.211	-30.797	31.990	-11.600	-10.407	-7.820	-6.627	-8.255	-7.062	-8.689	-7.496	-9.123	-7.931	-9.558
52403340	552403.224	6933397.427	103.847	-27.7227400	135.5316139	-0.4838531	0.2164049	-0.9677062	0.6782953	979119.346	979150.144	-30.798	32.047	-11.620	-10.371	-7.834	-6.584	-8.269	-7.020	-8.704	-7.455	-9.140	-7.890	-9.575
52403350	552401.354	6933498.741	104.530	-27.7218255	135.5315905	-0.4838371	0.2163918	-0.9676743	0.6782655	979119.134	979150.076	-30.942	32.258	-11.697	-10.381	-7.886	-6.569	-8.324	-7.007	-8.762	-7.445	-9.200	-7.883	-9.638
52403360	552399.903	6933599.993	105.047	-27.7209115	135.5315713	-0.4838212	0.2163786	-0.9676424	0.6782357	979118.994	979150.008	-31.014	32.418	-11.755	-10.351	-7.925	-6.521	-8.365	-6.961	-8.805	-7.401	-9.245	-7.841	-9.686
52403370	552395.582	6933702.011	105.985	-27.7199907	135.5315230	-0.4838051	0.2163654	-0.9676102	0.6782056	979118.660	979149.939	-31.279	32.707	-11.860	-10.432	-7.995	-6.568	-8.439	-7.012	-8.884	-7.456	-9.328	-7.900	-9.772
52403380	552402.851	6933793.299	106.444	-27.7191664	135.5315928	-0.4837907	0.2163535	-0.9675814	0.6781788	979118.508	979149.878	-31.370	32.849	-11.911	-10.432	-8.030	-6.551	-8.476	-6.997	-8.922	-7.443	-9.368	-7.890	-9.814
52403390	552397.970	6933896.177	107.719	-27.7182379	135.5315388	-0.4837745	0.2163402	-0.9675490	0.6781485	979118.075	979149.809	-31.734	33.242	-12.054	-10.546	-8.126	-6.618	-8.578	-7.069	-9.029	-7.521	-9.480	-7.972	-9.932
52403400	552400.840	6934000.578	109.832	-27.7172953	135.5315633	-0.4837581	0.2163267	-0.9675161	0.6781177	979117.394	979149.739	-32.345	33.894	-12.290	-10.741	-8.286	-6.736	-8.746	-7.196	-9.206	-7.657	-9.666	-8.117	-10.127
52403410	552402.166	6934096.689	113.110	-27.7164276	135.5315726	-0.4837429	0.2163142	-0.9674858	0.6780894	979116.526	979149.674	-33.148	34.906	-12.657	-10.900	-8.533	-6.775	-9.007	-7.249	-9.481	-7.723	-9.955	-8.197	-10.429
52403420	552401.509	6934199.489	117.181	-27.7154996	135.5315614	-0.4837267	0.2163008	-0.9674534	0.6780592	979115.356	979149.605	-34.249	36.162	-13.113	-11.200	-8.840	-6.927	-9.331	-7.418	-9.822	-7.909	-10.313	-8.400	-10.804
52403430	552402.589	6934299.293	120.864	-27.7145986	135.5315680	-0.4837110	0.2162879	-0.9674220	0.6780298	979114.324	979149.538	-35.214	37.299	-13.525	-11.440	-9.118	-7.033	-9.624	-7.540	-10.131	-8.047	-10.637	-8.553	-11.144
52403440	552402.756	6934394.055	122.360	-27.7137432	135.5315655	-0.4836961	0.2162756	-0.9673921	0.6780019	979113.772	979149.475	-35.703	37.760	-13.692	-11.634	-9.231	-7.173	-9.743	-7.686	-10.256	-8.199	-10.769	-8.711	-11.282
52403450	552400.690	6934501.083	119.516	-27.7127771	135.5315399	-0.4836792	0.2162617	-0.9673584	0.6779703	979114.190	979149.403	-35.213	36.883	-13.374	-11.704	-9.016	-7.346	-9.517	-7.847	-10.018	-8.348	-10.519	-8.849	-11.020
52403460	552400.592	6934598.927	117.566	-27.7118938	135.5315346	-0.4836638	0.2162490	-0.9673276	0.6779415	979114.435	979149.337	-34.902	36.281	-13.156	-11.777	-8.869	-7.490	-9.362	-7.983	-9.854	-8.476	-10.347	-8.968	-10.840
52403470	552398.200	6934697.823	119.589	-27.7110012	135.5315060	-0.4836482	0.2162362	-0.9672964	0.6779124	979113.741	979149.271	-35.530	36.905	-13.382	-12.007	-9.022	-7.646	-9.523	-8.147	-10.024	-8.649	-10.525	-9.150	-11.026
52403480	552400.089	6934797.217	126.390	-27.7101038	135.5315208	-0.4836325	0.2162233	-0.9672651	0.6778831	979111.924	979149.204	-37.280	39.004	-14.143	-12.419	-9.535	-7.811	-10.064	-8.341	-10.594	-8.870	-11.124	-9.400	-11.653
52403490	552396.736	6934901.902	135.483	-27.7091589	135.5314822	-0.4836161	0.2162097	-0.9672321	0.6778523	979109.475	979149.134	-39.659	41.810	-15.161	-13.009	-10.221	-8.069	-10.788	-8.637	-11.356	-9.205	-11.924	-9.773	-12.492
52403500	552395.030	6934999.366	143.515	-27.7082792	135.5314607	-0.4836007	0.2161971	-0.9672014	0.6778236	979107.202	979149.069	-41.867	44.289	-16.059	-13.637	-10.826	-8.404	-11.428	-9.006	-12.029	-9.607	-12.631	-10.209	-13.232
52403510	552376.169	6935092.309	148.886	-27.7074409	135.5312653	-0.4835861	0.2161850	-0.9671721	0.6777963	979105.712	979149.006	-43.294	45.946	-16.660	-14.008	-11.232	-8.580	-11.856	-9.204	-12.480	-9.828	-13.104	-10.452	-13.728
52403520	552371.873	6935205.120	136.773	-27.7064227	135.5312168	-0.4835683	0.2161704	-0.9671366	0.6777630	979108.392	979148.931	-40.539	42.208	-15.305	-13.635	-10.318	-8.648	-10.891	-9.222	-11.464	-9.795	-12.038	-10.368	-12.611
52403530	552400.463	6935298.126	131.332	-27.7055820	135.5315027	-0.4835536	0.2161583	-0.9671073	0.6777356	979109.518	979148.868	-39.350	40.529	-14.696	-13.517	-9.907	-8.728	-10.458	-9.279	-11.008	-9.829	-11.559	-10.380	-12.109
52403540	552401.938	6935401.803	132.062	-27.7046460	135.5315131	-0.4835373	0.2161449	-0.9670746	0.6777051	979109.044	979148.799	-39.755	40.754	-14.778	-13.778	-9.962	-8.963	-10.516	-9.516	-11.069	-10.070	-11.623	-10.623	-12.176
52403550	552398.612	6935497.086	134.191	-27.7037860	135.5314752	-0.4835223	0.2161325	-0.9670446	0.6776770	979108.291	979148.735	-40.444	41.411	-15.016	-14.048	-10.123	-9.155	-10.685	-9.718	-11.248	-10.280	-11.810	-10.843	-12.373
52403560	552398.220	6935550.010	139.101	-27.7033082	135.5314689	-0.4835139	0.2161257	-0.9670279	0.6776614	979106.912	979148.699	-41.787	42.927	-15.565	-14.426	-10.494	-9.354	-11.076	-9.937	-11.659	-10.520	-12.242	-11.103	-12.825
52403570	552400.972	6935696.169	174.677	-27.7019887	135.5314905	-0.4834909	0.2161067	-0.9669818	0.6776184	979098.498	979148.601	-50.103	53.905	-19.546	-15.744	-13.177	-9.375	-13.909	-10.107	-14.641	-10.839	-15.373	-11.571	-16.106
52403580	552398.221	6935794.130	176.749	-27.7011045	135.5314583	-0.4834755	0.2160940	-0.9669510	0.6775895	979097.987	979148.535	-50.548	54.545	-19.778	-15.782	-13.334	-9.337	-14.074	-10.078	-14.815	-10.819	-15.556	-11.559	-16.297
52403590	552401.587	6935896.971	181.240	-27.7001760	135.5314879	-0.4834593	0.2160807	-0.9669185	0.6775592	979096.808	979148.466	-51.658	55.931	-20.281	-16.008	-13.672	-9.400	-14.432	-10.160	-15.192	-10.919	-15.951	-11.679	-16.711
52403600	552398.506	6936000.425	180.584	-27.6992422	135.5314521	-0.4834430	0.2160672	-0.9668860	0.6775288	979096.759	979148.397	-51.638	55.728	-20.207	-16.117	-13.623	-9.533	-14.380	-10.289	-15.137	-11.046	-15.893	-11.803	-16.650
52403620	552402.354	6936196.542	176.549	-27.6974716	135.5314826	-0.4834121	0.2160418	-0.9668241	0.6774710	979097.241	979148.265	-51.024	54.483	-19.756	-16.297	-13.319	-9.860	-14.058	-10.600	-14.798	-11.340	-15.538	-12.080	-16.278
52403640	552401.858	6936399.270	173.585	-27.6956416	135.5314687	-0.4833801	0.2160155	-0.9667603	0.6774112	979097.660	979148.129	-50.469	53.568	-19.424	-16.325	-13.095	-9.996	-13.822	-10.723	-14.550	-11.451	-15.277	-12.178	-16.005
52403660	552399.767	6936602.964	173.017	-27.6938028	135.5314386	-0.4833480	0.2159891	-0.9666961	0.6773512	979097.402	979147.993	-50.591	53.393	-19.361	-16.558	-13.052	-10.250	-13.777	-10.975	-14.502	-11.700	-15.227	-12.425	-15.953
52403680	552400.259	6936797.683	173.535	-27.6920450	135.5314351	-0.4833174	0.2159639	-0.9666347	0.6772939	979096.774	979147.862	-51.088	53.553	-19.419	-16.954	-13.091	-10.626	-13.818	-11.354	-14.546	-12.081	-15.273	-12.808	-16.000
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170
5103	560903.423	6924252.997	88.615	-27.8049294	135.6183082	-0.4852876	0.2175875	-0.9705751	0.6809727	979130.365	979156.261	-25.896	27.347	-9.916	-8.465	-6.685	-5.234	-7.056	-5.606	-7.428	-5.977	-7.799	-6.348	-8.170

STATION NO.	MGA_E	MGA_N	elev AHD	WGS84 Lat (D.ddd)	WGS84 LONG (D.ddd)	WGS84 Radians	Sin2 latitude	sin22 lat	sin^2*2 Lat	gobs84	gth	anom	freeair corrn	bouguer corrn (2.67)	Bouguer Anomaly(2.67)	bouguer corrn (1.8)	Bouguer Anomaly(1.8)	bouguer corrn (1.9)	Bouguer Anomaly(1.9)	bouguer corrn (2.0)	Bouguer Anomaly(2.0)	bouguer corrn (2.1)	Bouguer Anomaly(2.1)	bouguer corrn (2.2)
335000	549695.205	6922435.058	84.674	-27.8218028	135.5045992	-0.4855821	0.2178306	-0.9711641	0.6815216	979126.621	979157.518	-30.897	26.130	-9.475	-14.242	-6.388	-11.155	-6.743	-11.509	-7.097	-11.864	-7.452	-12.219	-7.807
335020	549800.743	6922613.861	83.348	-27.8201848	135.5056633	-0.4855538	0.2178072	-0.9711076	0.6814690	979127.036	979157.398	-30.362	25.721	-9.327	-13.967	-6.288	-10.928	-6.637	-11.277	-6.986	-11.627	-7.336	-11.976	-7.685
335040	549899.409	6922791.143	79.869	-27.8185807	135.5066576	-0.4855258	0.2177841	-0.9710517	0.6814168	979128.009	979157.278	-29.269	24.648	-8.937	-13.559	-6.025	-10.647	-6.360	-10.981	-6.695	-11.316	-7.029	-11.651	-7.364
335060	549998.455	6922926.034	78.467	-27.8173594	135.5076576	-0.4855045	0.2177665	-0.9710090	0.6813771	979128.571	979157.187	-28.616	24.215	-8.780	-13.182	-5.919	-10.321	-6.248	-10.649	-6.577	-10.978	-6.906	-11.307	-7.235
335080	550106.713	6923137.901	79.554	-27.8154428	135.5087479	-0.4854711	0.2177389	-0.9709421	0.6813148	979128.620	979157.044	-28.424	24.550	-8.902	-12.776	-6.001	-9.875	-6.335	-10.209	-6.668	-10.542	-7.002	-10.876	-7.335
335100	550200.491	6923306.260	79.770	-27.8139194	135.5096929	-0.4854445	0.2177170	-0.9708889	0.6812652	979128.845	979156.931	-28.086	24.617	-8.926	-12.395	-6.018	-9.486	-6.352	-9.821	-6.686	-10.155	-7.021	-10.489	-7.355
335120	550302.869	6923480.252	81.098	-27.8123449	135.5107250	-0.4854170	0.2176943	-0.9708340	0.6812140	979128.932	979156.813	-27.881	25.027	-9.075	-11.929	-6.118	-8.972	-6.458	-9.312	-6.798	-9.652	-7.138	-9.992	-7.477
335140	550401.390	6923657.070	81.172	-27.8107451	135.5117177	-0.4853891	0.2176713	-0.9707781	0.6811619	979129.294	979156.694	-27.400	25.050	-9.083	-11.434	-6.123	-8.474	-6.464	-8.814	-6.804	-9.154	-7.144	-9.495	-7.484
335160	550497.079	6923822.518	82.143	-27.8092479	135.5126822	-0.4853629	0.2176497	-0.9707259	0.6811132	979129.489	979156.583	-27.094	25.349	-9.192	-10.936	-6.197	-7.941	-6.541	-8.285	-6.885	-8.630	-7.229	-8.974	-7.574
335180	550601.779	6923999.466	83.721	-27.8076466	135.5137377	-0.4853350	0.2176266	-0.9706700	0.6810611	979129.530	979156.463	-26.933	25.836	-9.368	-10.465	-6.316	-7.413	-6.667	-7.764	-7.017	-8.115	-7.368	-8.465	-7.719
335200	550702.024	6924174.948	84.834	-27.8060587	135.5147479	-0.4853073	0.2176038	-0.9706146	0.6810094	979129.698	979156.345	-26.647	26.180	-9.493	-9.960	-6.400	-6.867	-6.755	-7.223	-7.111	-7.578	-7.466	-7.934	-7.822
335220	550800.171	6924346.236	87.257	-27.8045088	135.5157370	-0.4852802	0.2175814	-0.9705605	0.6809590	979129.517	979156.230	-26.713	26.928	-9.764	-9.549	-6.582	-6.368	-6.948	-6.733	-7.314	-7.099	-7.680	-7.465	-8.045
335240	550899.713	6924517.575	87.330	-27.8029583	135.5167402	-0.4852532	0.2175591	-0.9705063	0.6809086	979129.874	979156.114	-26.240	26.950	-9.772	-9.062	-6.588	-5.878	-6.954	-6.244	-7.320	-6.610	-7.686	-6.976	-8.052
335260	551002.777	6924690.160	87.448	-27.8013964	135.5177791	-0.4852259	0.2175366	-0.9704518	0.6808577	979130.272	979155.998	-25.726	26.986	-9.785	-8.525	-6.597	-5.336	-6.963	-5.703	-7.330	-6.069	-7.696	-6.436	-8.063
335280	551102.277	6924865.606	87.194	-27.7998088	135.5187817	-0.4851982	0.2175137	-0.9703964	0.6808061	979130.696	979155.879	-25.183	26.908	-9.757	-8.032	-6.578	-4.853	-6.943	-5.219	-7.309	-5.584	-7.674	-5.949	-8.039
335300	551198.227	6925040.442	87.639	-27.7982269	135.5197482	-0.4851706	0.2174910	-0.9703412	0.6807546	979130.867	979155.762	-24.895	27.045	-9.807	-7.656	-6.611	-4.461	-6.979	-4.828	-7.346	-5.195	-7.713	-5.562	-8.080
335320	551301.941	6925210.764	88.090	-27.7966854	135.5207937	-0.4851437	0.2174688	-0.9702874	0.6807044	979131.138	979155.647	-24.509	27.185	-9.857	-7.181	-6.645	-3.970	-7.015	-4.339	-7.384	-4.708	-7.753	-5.077	-8.122
335340	551398.382	6925385.122	89.051	-27.7951078	135.5217652	-0.4851161	0.2174460	-0.9702323	0.6806531	979131.272	979155.529	-24.257	27.481	-9.965	-6.741	-6.718	-3.494	-7.091	-3.867	-7.464	-4.240	-7.837	-4.614	-8.211
335360	551500.507	6925555.377	89.840	-27.7935669	135.5227945	-0.4850893	0.2174239	-0.9701785	0.6806029	979131.357	979155.415	-24.058	27.725	-10.053	-6.386	-6.777	-3.110	-7.154	-3.487	-7.530	-3.863	-7.907	-4.240	-8.283
335380	551598.174	6925733.926	89.969	-27.7919514	135.5237782	-0.4850611	0.2174006	-0.9701221	0.6805503	979131.487	979155.294	-23.807	27.764	-10.068	-6.110	-6.787	-2.830	-7.164	-3.207	-7.541	-3.584	-7.918	-3.961	-8.295
335400	551699.016	6925905.780	89.192	-27.7903961	135.5247944	-0.4850339	0.2173782	-0.9700678	0.6804997	979131.781	979155.178	-23.397	27.525	-9.981	-5.853	-6.728	-2.601	-7.102	-2.975	-7.476	-3.349	-7.850	-3.723	-8.224
335420	551798.299	6926082.411	89.910	-27.7887978	135.5257945	-0.4850060	0.2173552	-0.9700120	0.6804477	979131.551	979155.059	-23.508	27.746	-10.061	-5.823	-6.783	-2.545	-7.159	-2.922	-7.536	-3.298	-7.913	-3.675	-8.290
335440	551898.143	6926250.716	91.178	-27.7872746	135.5268006	-0.4849794	0.2173333	-0.9699589	0.6803981	979131.056	979154.946	-23.890	28.138	-10.203	-5.955	-6.878	-2.631	-7.260	-3.013	-7.643	-3.395	-8.025	-3.777	-8.407
335460	552005.819	6926428.212	93.931	-27.7856682	135.5278858	-0.4849514	0.2173101	-0.9699028	0.6803458	979130.279	979154.826	-24.547	28.987	-10.511	-6.071	-7.086	-2.646	-7.480	-3.040	-7.873	-3.433	-8.267	-3.827	-8.661
335480	552103.668	6926597.385	96.778	-27.7841372	135.5288716	-0.4849247	0.2172881	-0.9698493	0.6802959	979129.371	979154.712	-25.341	29.866	-10.829	-6.305	-7.301	-2.776	-7.706	-3.182	-8.112	-3.587	-8.518	-3.993	-8.923
335500	552199.245	6926771.578	101.282	-27.7825610	135.5298341	-0.4848972	0.2172654	-0.9697943	0.6802446	979128.070	979154.595	-26.525	31.256	-11.333	-6.603	-7.641	-2.910	-8.065	-3.334	-8.489	-3.759	-8.914	-4.183	-9.338
335520	552298.785	6926942.509	101.271	-27.7810141	135.5308369	-0.4848702	0.2172431	-0.9697403	0.6801942	979127.851	979154.480	-26.629	31.252	-11.332	-6.709	-7.640	-3.016	-8.064	-3.441	-8.489	-3.865	-8.913	-4.289	-9.337
335540	552400.645	6927117.714	100.239	-27.7794285	135.5318631	-0.4848425	0.2172203	-0.9696850	0.6801426	979127.946	979154.362	-26.416	30.934	-11.217	-6.699	-7.562	-3.044	-7.982	-3.464	-8.402	-3.884	-8.822	-4.304	-9.242
335560	552500.426	6927292.532	98.635	-27.7778465	135.5328681	-0.4848149	0.2171976	-0.9696298	0.6800911	979128.230	979154.244	-26.014	30.439	-11.037	-6.612	-7.441	-3.016	-7.854	-3.429	-8.268	-3.843	-8.681	-4.256	-9.094
335580	552599.837	6927465.945	96.947	-27.7762772	135.5338695	-0.4847875	0.2171750	-0.9695750	0.6800400	979128.601	979154.127	-25.526	29.918	-10.848	-6.456	-7.313	-2.922	-7.720	-3.328	-8.126	-3.734	-8.532	-4.141	-8.939
335600	552700.859	6927635.672	95.717	-27.7747411	135.5348873	-0.4847607	0.2171529	-0.9695214	0.6799900	979128.911	979154.013	-25.102	29.538	-10.711	-6.274	-7.221	-2.784	-7.622	-3.185	-8.023	-3.586	-8.424	-3.988	-8.825
335620	552806.738	6927810.282	94.243	-27.7731607	135.5359541	-0.4847331	0.2171301	-0.9694662	0.6799385	979129.300	979153.895	-24.595	29.083	-10.546	-6.057	-7.110	-2.621	-7.504	-3.016	-7.899	-3.411	-8.294	-3.806	-8.689
335640	552894.956	6927980.982	93.098	-27.7716162	135.5368419	-0.4847061	0.2171079	-0.9694123	0.6798882	979129.551	979153.780	-24.229	28.730	-10.418	-5.917	-7.023	-2.522	-7.413	-2.912	-7.803	-3.302	-8.194	-3.693	-8.584
335660	552998.344	6928153.195	92.746	-27.7700576	135.5378835	-0.4846789	0.2170855	-0.9693579	0.6798374	979129.676	979153.664	-23.988	28.621	-10.378	-5.745	-6.997	-2.363	-7.385	-2.752	-7.774	-3.141	-8.163	-3.529	-8.551
335680	553102.057	6928334.804	92.256	-27.7684140	135.5389280	-0.4846503	0.2170618	-0.9693005	0.6797839	979129.690	979153.542	-23.852	28.470	-10.323	-5.705	-6.960	-2.341	-7.346	-2.728	-7.733	-3.114	-8.120	-3.501	-8.506

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
3.253	-9.988	2.819	-10.422	2.384	-10.856	1.950
4.328	-11.152	3.843	-11.637	3.358	-12.122	2.873
3.363	-9.310	2.958	-9.715	2.553	-10.119	2.148
4.818	-8.918	4.430	-9.306	4.043	-9.693	3.655
0.158	-11.239	-0.331	-11.728	-0.819	-12.217	-1.308
1.654	-10.498	1.198	-10.954	0.741	-11.411	0.285
3.311	-12.312	2.776	-12.847	2.241	-13.382	1.706
2.307	-10.756	1.839	-11.224	1.371	-11.691	0.904
3.623	-9.319	3.217	-9.724	2.812	-10.129	2.407
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-4.581	-7.095	-4.890	-7.403	-5.198	-7.712	-5.507
-2.659	-7.068	-2.967	-7.376	-3.274	-7.683	-3.581
-2.696	-6.972	-3.000	-7.275	-3.303	-7.578	-3.606
-2.831	-6.860	-3.129	-7.159	-3.428	-7.457	-3.726
-1.363	-6.831	-1.660	-7.128	-1.957	-7.425	-2.254
-0.433	-6.714	-0.725	-7.006	-1.017	-7.298	-1.309
0.500	-6.619	0.212	-6.906	-0.076	-7.194	-0.363
2.369	-6.551	2.085	-6.836	1.800	-7.121	1.515
5.631	-6.537	5.347	-6.821	5.063	-7.105	4.778
9.816	-6.634	9.528	-6.922	9.239	-7.211	8.951
12.818	-6.616	12.530	-6.904	12.243	-7.192	11.955
-5.471	-7.001	-5.775	-7.306	-6.080	-7.610	-6.384
-3.727	-7.179	-4.039	-7.491	-4.351	-7.804	-4.663
-3.376	-7.027	-3.682	-7.333	-3.987	-7.638	-4.293
-2.707	-6.699	-2.999	-6.990	-3.290	-7.282	-3.581
-1.374	-6.647	-1.663	-6.936	-1.952	-7.225	-2.241
-0.212	-6.557	-0.497	-6.842	-0.782	-7.127	-1.067
0.813	-6.506	0.530	-6.789	0.247	-7.072	-0.036
3.027	-6.486	2.745	-6.768	2.463	-7.050	2.181
6.571	-6.466	6.290	-6.747	6.008	-7.028	5.727
11.666	-6.443	11.386	-6.723	11.106	-7.004	10.825
12.961	-6.463	12.680	-6.744	12.399	-7.025	12.118
3.277	-9.989	2.843	-10.424	2.409	-10.858	1.975
-6.491	-8.035	-6.840	-8.384	-7.189	-8.734	-7.539
-6.412	-8.482	-6.781	-8.851	-7.150	-9.220	-7.518
-6.270	-9.063	-6.664	-9.457	-7.058	-9.851	-7.453
-5.250	-9.552	-5.665	-9.967	-6.080	-10.382	-6.496
-3.346	-10.138	-3.787	-10.579	-4.228	-11.020	-4.668
-1.391	-10.725	-1.857	-11.191	-2.324	-11.658	-2.790
0.162	-11.237	-0.327	-11.726	-0.816	-12.215	-1.304
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-6.626	-7.955	-6.972	-8.301	-7.318	-8.647	-7.664
-6.241	-8.425	-6.608	-8.792	-6.974	-9.158	-7.340
-5.429	-9.233	-5.830	-9.635	-6.231	-10.036	-6.633
-3.822	-10.187	-4.265	-10.630	-4.708	-11.073	-5.151
-1.842	-10.871	-2.315	-11.343	-2.787	-11.816	-3.260
0.054	-11.673	-0.453	-12.181	-0.961	-12.688	-1.468
1.441	-11.450	0.944	-11.948	0.446	-12.445	-0.052
3.221	-9.986	2.787	-10.420	2.353	-10.854	1.918
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-1.992	-7.446	-2.316	-7.770	-2.640	-8.093	-2.963
-0.561	-7.211	-0.875	-7.525	-1.188	-7.839	-1.502
-1.019	-7.283	-1.336	-7.600	-1.652	-7.916	-1.969
-2.510	-7.501	-2.836	-7.827	-3.162	-8.153	-3.488
-1.648	-7.376	-1.968	-7.697	-2.289	-8.017	-2.610
-0.551	-7.248	-0.866	-7.563	-1.181	-7.878	-1.496
0.050	-7.286	-0.267	-7.603	-0.584	-7.920	-0.901
0.803	-7.115	0.494	-7.424	0.185	-7.734	-0.125
2.643	-7.065	2.336	-7.372	2.029	-7.679	1.722
5.838	-7.074	5.530	-7.382	5.223	-7.689	4.915
9.111	-7.403	8.789	-7.725	8.467	-8.047	8.145
-2.969	-7.301	-3.286	-7.619	-3.603	-7.936	-3.921
-0.984	-7.442	-1.307	-7.766	-1.631	-8.089	-1.954
-2.570	-7.468	-2.895	-7.793	-3.219	-8.118	-3.544
-2.975	-7.078	-3.283	-7.386	-3.590	-7.694	-3.898
-1.298	-7.032	-1.603	-7.338	-1.909	-7.643	-2.215
-0.200	-6.987	-0.504	-7.291	-0.808	-7.594	-1.112
0.327	-6.986	0.024	-7.290	-0.280	-7.594	-0.584
1.478	-7.235	1.164	-7.549	0.849	-7.864	0.535
3.919	-7.164	3.608	-7.476	3.296	-7.787	2.985
8.036	-6.835	7.739	-7.132	7.442	-7.429	7.145
10.753	-6.800	10.457	-7.096	10.162	-7.391	9.866
-4.613	-7.097	-4.921	-7.405	-5.230	-7.714	-5.539
-6.281	-7.778	-6.620	-8.116	-6.958	-8.455	-7.296

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-5.785	-8.437	-6.152	-8.804	-6.519	-9.171	-6.886
-4.900	-8.789	-5.282	-9.171	-5.664	-9.553	-6.046
-3.122	-9.699	-3.544	-10.120	-3.966	-10.542	-4.387
-1.179	-10.973	-1.656	-11.450	-2.133	-11.927	-2.611
1.031	-11.282	0.541	-11.772	0.050	-12.263	-0.440
3.351	-10.859	2.879	-11.331	2.407	-11.803	1.935
4.268	-10.687	3.803	-11.151	3.339	-11.616	2.874
4.099	-9.200	3.699	-9.600	3.299	-10.000	2.899
4.038	-8.651	3.662	-9.027	3.286	-9.404	2.910
6.423	-8.280	6.063	-8.640	5.703	-9.000	5.343
4.801	-8.917	4.413	-9.304	4.025	-9.692	3.638
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-6.146	-6.768	-6.440	-7.063	-6.734	-7.357	-7.029
-5.200	-7.070	-5.507	-7.377	-5.815	-7.685	-6.122
-4.299	-7.337	-4.618	-7.656	-4.937	-7.975	-5.256
-3.392	-8.976	-3.782	-9.367	-4.172	-9.757	-4.563
-2.219	-9.504	-2.632	-9.917	-3.045	-10.331	-3.459
-0.688	-8.976	-1.078	-9.366	-1.468	-9.757	-1.858
1.910	-8.780	1.528	-9.161	1.146	-9.543	0.764
4.757	-8.939	4.369	-9.328	3.980	-9.716	3.592
5.399	-7.542	5.071	-7.870	4.744	-8.198	4.416
8.538	-7.791	8.199	-8.129	7.861	-8.468	7.522
11.521	-7.452	11.197	-7.776	10.873	-8.100	10.549
-6.162	-7.000	-6.466	-7.305	-6.770	-7.609	-7.075
-5.160	-7.758	-5.498	-8.096	-5.835	-8.433	-6.172
-4.089	-7.786	-4.427	-8.124	-4.766	-8.463	-5.104
-2.975	-8.785	-3.357	-9.167	-3.738	-9.549	-4.120
-1.483	-10.429	-1.936	-10.883	-2.390	-11.336	-2.843
0.463	-10.611	0.002	-11.072	-0.459	-11.534	-0.921
2.536	-9.376	2.128	-9.784	1.721	-10.192	1.313
5.037	-9.549	4.622	-9.964	4.207	-10.380	3.791
4.925	-8.037	4.575	-8.386	4.226	-8.736	3.876
7.021	-8.055	6.671	-8.405	6.320	-8.756	5.970
9.726	-7.617	9.395	-7.949	9.064	-8.280	8.732
-6.165	-7.482	-6.490	-7.808	-6.815	-8.133	-7.141
-5.257	-7.766	-5.595	-8.104	-5.933	-8.441	-6.270
-4.117	-8.439	-4.484	-8.805	-4.851	-9.172	-5.217
-2.789	-9.264	-3.192	-9.667	-3.595	-10.070	-3.998
-1.043	-10.884	-1.516	-11.357	-1.989	-11.831	-2.463
1.183	-10.997	0.705	-11.475	0.227	-11.954	-0.252
3.003	-10.867	2.531	-11.340	2.058	-11.812	1.586
4.742	-9.658	4.322	-10.078	3.902	-10.498	3.482
4.133	-8.902	3.746	-9.289	3.359	-9.676	2.972
5.427	-8.360	5.063	-8.723	4.700	-9.087	4.336
7.732	-7.987	7.385	-8.334	7.038	-8.681	6.691
-6.272	-7.777	-6.610	-8.115	-6.948	-8.453	-7.286
6.451	-8.280	6.091	-8.640	5.731	-9.000	5.371
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-6.097	-6.923	-6.398	-7.224	-6.699	-7.525	-7.000
-5.538	-6.689	-5.829	-6.980	-6.120	-7.271	-6.411
-4.659	-6.680	-4.950	-6.971	-5.240	-7.261	-5.530
-3.562	-6.894	-3.862	-7.194	-4.162	-7.494	-4.461
-2.185	-7.034	-2.491	-7.340	-2.796	-7.645	-3.102
-1.140	-7.229	-1.454	-7.543	-1.769	-7.857	-2.083
0.944	-7.387	0.622	-7.708	0.301	-8.029	-0.020
4.190	-7.496	3.864	-7.822	3.538	-8.148	3.212
8.628	-6.921	8.327	-7.222	8.026	-7.522	7.726
10.951	-6.673	10.661	-6.964	10.371	-7.254	10.081
12.606	-6.648	12.317	-6.937	12.028	-7.226	11.739
-6.232	-6.799	-6.528	-7.095	-6.823	-7.390	-7.119
-5.461	-6.746	-5.755	-7.040	-6.048	-7.333	-6.341
-4.590	-6.944	-4.892	-7.246	-5.194	-7.548	-5.496
-3.598	-7.451	-3.922	-7.775	-4.246	-8.099	-4.570
-2.549	-7.824	-2.889	-8.165	-3.229	-8.505	-3.569
-1.255	-7.864	-1.597	-8.205	-1.939	-8.547	-2.281
1.296	-8.020	0.948	-8.369	0.599	-8.718	0.250
4.496	-7.903	4.152	-8.246	3.809	-8.590	3.465
7.110	-7.412	6.788	-7.735	6.465	-8.057	6.143
10.181	-7.164	9.870	-7.476	9.558	-7.787	9.247
12.359	-7.345	12.040	-7.664	11.720	-7.984	11.401
11.533	-7.452	11.209	-7.776	10.885	-8.100	10.561
6.473	-8.279	6.113	-8.639	5.753	-8.999	5.393
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
-5.951	-6.840	-6.248	-7.137	-6.546	-7.434	-6.843
-4.270	-6.825	-4.567	-7.121	-4.864	-7.418	-5.160
-3.882	-6.758	-4.175	-7.052	-4.469	-7.346	-4.763
-3.177	-6.653	-3.466	-6.943	-3.755	-7.232	-4.044
-1.374	-6.577	-1.660	-6.863	-1.946	-7.149	-2.232

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
0.229	-6.527	-0.055	-6.811	-0.339	-7.095	-0.622
1.274	-6.498	0.991	-6.781	0.709	-7.064	0.426
3.572	-6.508	3.289	-6.791	3.006	-7.074	2.724
7.657	-6.460	7.376	-6.741	7.096	-7.021	6.815
11.132	-6.426	10.852	-6.706	10.573	-6.985	10.294
12.698	-6.387	12.420	-6.665	12.142	-6.943	11.865
-6.089	-7.020	-6.394	-7.325	-6.700	-7.631	-7.005
-5.269	-6.770	-5.564	-7.065	-5.858	-7.359	-6.152
-4.435	-6.667	-4.725	-6.957	-5.015	-7.246	-5.305
-3.370	-6.590	-3.656	-6.877	-3.943	-7.163	-4.229
-1.603	-6.625	-1.891	-6.913	-2.179	-7.201	-2.467
-0.502	-6.686	-0.792	-6.977	-1.083	-7.268	-1.374
1.097	-6.744	0.804	-7.037	0.511	-7.330	0.218
4.345	-6.850	4.047	-7.148	3.749	-7.446	3.451
9.555	-6.553	9.270	-6.838	8.985	-7.123	8.700
11.036	-6.417	10.757	-6.696	10.478	-6.976	10.199
12.533	-6.366	12.257	-6.643	11.980	-6.920	11.703
-6.128	-6.924	-6.429	-7.225	-6.730	-7.527	-7.031
1.487	-11.443	0.990	-11.940	0.492	-12.438	-0.005
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
0.184	-11.238	-0.305	-11.727	-0.794	-12.216	-1.282
3.603	-9.320	3.197	-9.725	2.792	-10.131	2.387
-6.309	-8.425	-6.675	-8.791	-7.041	-9.158	-7.408
-6.846	-8.547	-7.218	-8.919	-7.590	-9.290	-7.961
-6.991	-9.170	-7.389	-9.569	-7.788	-9.967	-8.187
-6.165	-9.512	-6.578	-9.925	-6.992	-10.339	-7.405
-4.754	-9.790	-5.179	-10.216	-5.605	-10.641	-6.031
-2.589	-10.856	-3.061	-11.328	-3.533	-11.800	-4.005
-0.957	-12.526	-1.501	-13.070	-2.046	-13.615	-2.591
0.529	-11.197	0.042	-11.684	-0.445	-12.170	-0.931
2.195	-12.348	1.658	-12.885	1.121	-13.422	0.584
2.940	-13.322	2.360	-13.901	1.781	-14.481	1.202
1.913	-10.018	1.478	-10.454	1.042	-10.889	0.607
-5.849	-7.789	-6.188	-8.127	-6.526	-8.466	-6.865
-6.654	-8.320	-7.015	-8.682	-7.377	-9.043	-7.739
-7.308	-8.760	-7.689	-9.141	-8.070	-9.522	-8.451
-6.857	-8.763	-7.238	-9.144	-7.619	-9.525	-8.000
-5.351	-9.803	-5.778	-10.229	-6.204	-10.655	-6.630
-3.602	-10.964	-4.078	-11.440	-4.555	-11.917	-5.032
-1.960	-11.450	-2.458	-11.947	-2.956	-12.445	-3.453
-0.901	-11.817	-1.414	-12.330	-1.928	-12.844	-2.442
0.881	-11.607	0.376	-12.112	-0.129	-12.616	-0.633
2.025	-15.694	1.343	-16.376	0.660	-17.058	-0.022
0.345	-10.465	-0.110	-10.920	-0.565	-11.375	-1.020
-4.399	-10.269	-4.846	-10.716	-5.292	-11.162	-5.739
-3.300	-11.233	-3.788	-11.722	-4.277	-12.210	-4.765
-2.441	-11.108	-2.923	-11.591	-3.406	-12.074	-3.889
-0.716	-10.996	-1.194	-11.474	-1.672	-11.952	-2.150
0.856	-12.778	0.300	-13.333	-0.255	-13.889	-0.811
-0.852	-9.960	-1.285	-10.393	-1.718	-10.826	-2.151
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
2.897	-12.043	2.374	-12.567	1.850	-13.090	1.327
0.174	-11.241	-0.315	-11.730	-0.804	-12.219	-1.292
-5.688	-7.727	-6.024	-8.063	-6.360	-8.399	-6.696
-6.504	-7.783	-6.842	-8.121	-7.181	-8.459	-7.519
-7.096	-8.098	-7.449	-8.450	-7.801	-8.802	-8.153
-6.737	-8.853	-7.122	-9.238	-7.507	-9.623	-7.892
-5.679	-9.629	-6.098	-10.047	-6.516	-10.466	-6.935
-4.398	-10.271	-4.844	-10.718	-5.291	-11.165	-5.737
-5.416	-7.887	-5.759	-8.230	-6.102	-8.573	-6.445
-6.348	-8.120	-6.701	-8.473	-7.054	-8.826	-7.407
-6.625	-8.095	-6.977	-8.447	-7.329	-8.799	-7.681
-6.129	-8.402	-6.494	-8.768	-6.860	-9.133	-7.225
-5.374	-8.826	-5.758	-9.210	-6.141	-9.594	-6.525
-4.693	-9.503	-5.106	-9.916	-5.520	-10.329	-5.933
-4.208	-10.003	-4.643	-10.438	-5.078	-10.873	-5.513
-4.075	-9.954	-4.508	-10.387	-4.941	-10.820	-5.374
-2.044	-10.426	-2.497	-10.879	-2.950	-11.332	-3.404
-0.401	-10.996	-0.880	-11.474	-1.358	-11.952	-1.836
-2.068	-9.964	-2.501	-10.397	-2.934	-10.830	-3.368
-5.139	-7.990	-5.486	-8.337	-5.834	-8.684	-6.181
-5.953	-8.198	-6.309	-8.555	-6.665	-8.911	-7.022
-6.115	-7.955	-6.461	-8.301	-6.807	-8.647	-7.153
-5.648	-9.012	-6.040	-9.404	-6.432	-9.796	-6.824
-5.101	-9.487	-5.514	-9.900	-5.926	-10.312	-6.339
-4.759	-9.653	-5.179	-10.072	-5.599	-10.492	-6.019
-4.535	-9.430	-4.945	-9.840	-5.355	-10.250	-5.765
-5.414	-9.327	-5.820	-9.732	-6.225	-10.138	-6.631
-5.028	-9.686	-5.449	-10.107	-5.870	-10.529	-6.291
-2.779	-10.376	-3.230	-10.827	-3.681	-11.278	-4.133
-3.612	-9.652	-4.032	-10.071	-4.451	-10.491	-4.871
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-3.795	-8.898	-4.181	-9.285	-4.568	-9.672	-4.955
-3.266	-9.115	-3.662	-9.511	-4.059	-9.907	-4.455
-2.168	-8.988	-2.559	-9.379	-2.949	-9.770	-3.340
-1.482	-9.178	-1.881	-9.577	-2.280	-9.976	-2.679
-1.543	-9.215	-1.944	-9.616	-2.344	-10.016	-2.745
-2.028	-9.067	-2.422	-9.461	-2.816	-9.856	-3.210
-3.020	-9.216	-3.421	-9.616	-3.822	-10.017	-4.223
-4.001	-9.090	-4.396	-9.486	-4.792	-9.881	-5.187
-4.940	-9.300	-5.344	-9.705	-5.749	-10.109	-6.153
-4.516	-9.085	-4.911	-9.480	-5.306	-9.875	-5.701
-3.740	-9.267	-4.143	-9.670	-4.546	-10.073	-4.949
-2.778	-9.360	-3.185	-9.767	-3.591	-10.174	-3.998
-1.737	-9.258	-2.140	-9.660	-2.542	-10.063	-2.945
-1.534	-10.032	-1.970	-10.468	-2.406	-10.904	-2.842
-1.808	-9.408	-2.217	-9.817	-2.626	-10.226	-3.036
-2.820	-9.628	-3.239	-10.047	-3.657	-10.465	-4.076
-3.944	-9.693	-4.366	-10.114	-4.787	-10.536	-5.208
-4.808	-8.866	-5.193	-9.252	-5.579	-9.637	-5.964
-5.145	-9.276	-5.549	-9.679	-5.952	-10.082	-6.355
-4.298	-9.596	-4.715	-10.013	-5.132	-10.430	-5.549
-3.223	-9.569	-3.639	-9.985	-4.055	-10.401	-4.471
-2.203	-9.776	-2.628	-10.201	-3.053	-10.626	-3.478
-1.852	-10.686	-2.317	-11.151	-2.782	-11.615	-3.246
-1.812	-10.128	-2.253	-10.569	-2.693	-11.009	-3.133
-2.433	-9.951	-2.865	-10.384	-3.298	-10.817	-3.731
-3.390	-9.371	-3.797	-9.779	-4.205	-10.186	-4.612
-4.531	-9.434	-4.942	-9.844	-5.352	-10.255	-5.762
-5.951	-9.730	-6.374	-10.153	-6.798	-10.576	-7.221
-5.019	-9.933	-5.451	-10.365	-5.883	-10.797	-6.315
-4.112	-9.967	-4.546	-10.401	-4.979	-10.834	-5.412
-3.002	-10.108	-3.442	-10.547	-3.881	-10.987	-4.321
-2.603	-10.930	-3.078	-11.406	-3.553	-11.881	-4.029
-2.275	-10.538	-2.733	-10.996	-3.191	-11.454	-3.649
-2.312	-9.957	-2.745	-10.390	-3.178	-10.823	-3.611
-2.743	-9.446	-3.153	-9.856	-3.564	-10.267	-3.975
-3.914	-10.688	-4.379	-11.153	-4.843	-11.617	-5.308
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-25.148	-9.728	-25.571	-10.151	-25.994	-10.574	-26.417
-23.756	-10.023	-24.192	-10.459	-24.628	-10.895	-25.063
-22.800	-9.729	-23.223	-10.152	-23.646	-10.575	-24.069
-22.786	-9.619	-23.204	-10.038	-23.623	-10.456	-24.041
-22.800	-9.389	-23.208	-9.797	-23.616	-10.205	-24.024
-22.500	-9.581	-22.917	-9.998	-23.333	-10.415	-23.750
-21.678	-9.483	-22.090	-9.895	-22.502	-10.307	-22.915
-20.599	-9.414	-21.009	-9.824	-21.418	-10.233	-21.827
-18.937	-9.295	-19.341	-9.699	-19.745	-10.103	-20.149
-17.126	-9.223	-17.527	-9.624	-17.928	-10.026	-18.329
-15.047	-9.203	-15.447	-9.603	-15.848	-10.003	-16.248
-13.024	-9.210	-13.424	-9.610	-13.825	-10.011	-14.225
-11.313	-9.309	-11.718	-9.714	-12.122	-10.119	-12.527
-9.576	-9.267	-9.979	-9.670	-10.382	-10.073	-10.785
-7.814	-9.264	-8.217	-9.667	-8.620	-10.070	-9.023
-6.251	-9.139	-6.648	-9.536	-7.046	-9.933	-7.443
-25.713	-9.798	-26.139	-10.224	-26.565	-10.650	-26.991
-24.617	-9.638	-25.036	-10.057	-25.455	-10.477	-25.874
-23.595	-9.710	-24.017	-10.132	-24.439	-10.554	-24.861
-22.983	-9.597	-23.401	-10.014	-23.818	-10.431	-24.235
-22.531	-9.571	-22.947	-9.987	-23.363	-10.404	-23.780
-22.009	-9.720	-22.431	-10.143	-22.854	-10.565	-23.276
-21.092	-9.648	-21.511	-10.067	-21.931	-10.487	-22.350
-19.892	-9.527	-20.306	-9.941	-20.721	-10.355	-21.135
-18.354	-9.456	-18.765	-9.867	-19.176	-10.278	-19.587
-16.775	-9.384	-17.183	-9.792	-17.591	-10.200	-17.999
-15.077	-9.330	-15.483	-9.736	-15.889	-10.141	-16.294
-13.436	-9.428	-13.846	-9.838	-14.256	-10.248	-14.666
-11.673	-9.684	-12.094	-10.105	-12.515	-10.526	-12.936
-10.050	-9.602	-10.468	-10.019	-10.885	-10.437	-11.303
-8.719	-9.529	-9.133	-9.944	-9.547	-10.358	-9.962
-7.274	-9.386	-7.682	-9.794	-8.091	-10.203	-8.499
-6.005	-9.730	-6.428	-10.153	-6.851	-10.576	-7.274
-5.046	-9.934	-5.478	-10.366	-5.910	-10.798	-6.342
-7.947	-9.723	-8.370	-10.145	-8.792	-10.568	-9.215
-6.747	-11.065	-7.228	-11.546	-7.709	-12.027	-8.190
-5.809	-11.108	-6.292	-11.591	-6.775	-12.074	-7.258
-5.028	-9.964	-5.461	-10.397	-5.894	-10.830	-6.328
-4.506	-10.489	-4.962	-10.945	-5.418	-11.401	-5.874
-3.987	-11.032	-4.466	-11.512	-4.946	-11.992	-5.426
-3.391	-10.868	-3.863	-11.341	-4.336	-11.813	-4.809
-2.777	-10.267	-3.224	-10.714	-3.670	-11.160	-4.117

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-2.428	-9.498	-2.841	-9.911	-3.254	-10.323	-3.667
-3.198	-10.930	-3.673	-11.405	-4.148	-11.880	-4.623
-7.939	-10.323	-8.388	-10.772	-8.837	-11.220	-9.286
-7.264	-11.544	-7.766	-12.046	-8.267	-12.547	-8.769
-6.450	-10.890	-6.924	-11.363	-7.397	-11.837	-7.871
-6.200	-10.746	-6.667	-11.213	-7.134	-11.680	-7.601
-6.321	-12.644	-6.871	-13.194	-7.420	-13.744	-7.970
-5.512	-11.567	-6.015	-12.070	-6.518	-12.573	-7.020
-4.721	-12.574	-5.268	-13.120	-5.815	-13.667	-6.361
-3.565	-12.169	-4.094	-12.698	-4.623	-13.227	-5.152
-2.500	-9.907	-2.931	-10.338	-3.362	-10.768	-3.793
-2.883	-9.710	-3.305	-10.132	-3.727	-10.555	-4.149
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-25.383	-9.405	-25.792	-9.814	-26.201	-10.223	-26.610
-23.505	-9.360	-23.912	-9.767	-24.319	-10.174	-24.726
-22.178	-9.446	-22.588	-9.857	-22.999	-10.267	-23.410
-22.066	-9.121	-22.462	-9.518	-22.859	-9.914	-23.255
-22.332	-9.080	-22.727	-9.475	-23.122	-9.870	-23.517
-22.421	-9.194	-22.820	-9.594	-23.220	-9.994	-23.620
-21.833	-9.353	-22.239	-9.760	-22.646	-10.167	-23.053
-20.944	-8.973	-21.334	-9.363	-21.724	-9.753	-22.115
-19.379	-8.905	-19.766	-9.292	-20.153	-9.679	-20.540
-17.245	-9.123	-17.642	-9.519	-18.039	-9.916	-18.435
-14.793	-9.140	-15.190	-9.538	-15.588	-9.935	-15.985
-12.302	-9.206	-12.702	-9.607	-13.103	-10.007	-13.503
-10.159	-9.189	-10.558	-9.588	-10.958	-9.988	-11.357
-8.336	-9.163	-8.734	-9.561	-9.132	-9.959	-9.531
-6.763	-8.959	-7.152	-9.348	-7.542	-9.738	-7.932
-4.913	-8.904	-5.300	-9.291	-5.687	-9.678	-6.075
-24.970	-9.538	-25.385	-9.953	-25.799	-10.368	-26.214
-23.164	-9.615	-23.582	-10.033	-24.000	-10.451	-24.418
-22.179	-9.581	-22.595	-9.997	-23.012	-10.414	-23.428
-22.274	-9.539	-22.688	-9.953	-23.103	-10.368	-23.518
-22.635	-9.436	-23.046	-9.847	-23.456	-10.257	-23.866
-22.576	-9.417	-22.985	-9.826	-23.395	-10.236	-23.804
-21.898	-9.372	-22.306	-9.780	-22.713	-10.187	-23.121
-20.954	-9.315	-21.359	-9.720	-21.764	-10.125	-22.169
-19.359	-9.272	-19.762	-9.675	-20.166	-10.079	-20.569
-17.404	-9.269	-17.808	-9.672	-18.211	-10.075	-18.614
-15.024	-9.195	-15.423	-9.595	-15.823	-9.994	-16.223
-12.871	-9.130	-13.268	-9.527	-13.664	-9.923	-14.061
-10.856	-8.953	-11.245	-9.342	-11.634	-9.731	-12.023
-9.101	-8.989	-9.492	-9.380	-9.883	-9.770	-10.273
-7.312	-9.009	-7.704	-9.401	-8.096	-9.793	-8.487
-5.696	-8.935	-6.084	-9.324	-6.473	-9.712	-6.861
-4.530	-9.087	-4.925	-9.482	-5.320	-9.877	-5.715
-26.238	-9.828	-26.666	-10.255	-27.093	-10.682	-27.520
-25.200	-9.747	-25.624	-10.170	-26.048	-10.594	-26.472
-24.015	-9.897	-24.445	-10.327	-24.876	-10.757	-25.306
-22.913	-9.848	-23.341	-10.277	-23.769	-10.705	-24.197
-22.202	-9.916	-22.633	-10.347	-23.064	-10.778	-23.495
-21.388	-9.937	-21.820	-10.369	-22.252	-10.801	-22.684
-20.258	-10.005	-20.693	-10.440	-21.128	-10.875	-21.563
-18.945	-9.747	-19.369	-10.171	-19.793	-10.594	-20.217
-17.431	-9.731	-17.854	-10.155	-18.277	-10.578	-18.700
-16.072	-9.566	-16.488	-9.982	-16.903	-10.398	-17.319
-14.961	-9.513	-15.374	-9.927	-15.788	-10.340	-16.202
-13.805	-9.991	-14.239	-10.425	-14.673	-10.860	-15.108
-12.474	-10.096	-12.913	-10.535	-13.352	-10.974	-13.791
-11.030	-9.916	-11.461	-10.347	-11.892	-10.778	-12.323
-9.245	-9.733	-9.668	-10.156	-10.092	-10.579	-10.515
-20.856	-10.199	-21.299	-10.642	-21.743	-11.085	-22.186
-19.677	-10.429	-20.131	-10.883	-20.584	-11.336	-21.038
-18.221	-10.172	-18.663	-10.614	-19.106	-11.057	-19.548
-16.509	-10.090	-16.947	-10.528	-17.386	-10.967	-17.825
-15.353	-9.846	-15.781	-10.274	-16.209	-10.702	-16.638
-14.823	-9.979	-15.257	-10.412	-15.691	-10.846	-16.125
-13.982	-11.060	-14.463	-11.541	-14.944	-12.022	-15.425
-12.652	-10.379	-13.103	-10.830	-13.555	-11.282	-14.006
-11.185	-10.160	-11.627	-10.602	-12.068	-11.044	-12.510
-8.998	-10.466	-9.454	-10.921	-9.909	-11.376	-10.364
-7.900	-10.323	-8.349	-10.772	-8.798	-11.221	-9.246
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-26.817	-9.090	-27.212	-9.485	-27.607	-9.880	-28.003
-26.179	-9.122	-26.575	-9.518	-26.972	-9.915	-27.369
-25.139	-9.071	-25.533	-9.465	-25.928	-9.860	-26.322
-24.264	-9.047	-24.657	-9.440	-25.051	-9.833	-25.444
-23.632	-8.950	-24.021	-9.339	-24.410	-9.728	-24.799
-22.937	-8.712	-23.316	-9.090	-23.695	-9.469	-24.074
-22.037	-8.557	-22.409	-8.930	-22.782	-9.302	-23.154
-20.518	-8.414	-20.884	-8.780	-21.250	-9.145	-21.615

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-18.316	-8.319	-18.678	-8.680	-19.040	-9.042	-19.402
-15.630	-8.278	-15.990	-8.638	-16.350	-8.998	-16.710
-13.121	-8.574	-13.494	-8.947	-13.867	-9.319	-14.239
-10.835	-8.454	-11.203	-8.821	-11.570	-9.189	-11.938
-8.471	-8.912	-8.858	-9.300	-9.246	-9.687	-9.633
-26.592	-9.262	-26.995	-9.665	-27.398	-10.068	-27.801
-25.440	-9.174	-25.839	-9.573	-26.238	-9.972	-26.637
-23.916	-9.133	-24.313	-9.531	-24.710	-9.928	-25.107
-23.226	-9.083	-23.620	-9.478	-24.015	-9.873	-24.410
-23.009	-8.775	-23.390	-9.156	-23.772	-9.538	-24.154
-22.492	-8.700	-22.870	-9.078	-23.248	-9.457	-23.627
-21.518	-8.734	-21.898	-9.113	-22.278	-9.493	-22.657
-20.453	-8.543	-20.825	-8.915	-21.196	-9.286	-21.567
-18.651	-8.616	-19.026	-8.990	-19.401	-9.365	-19.775
-16.184	-8.518	-16.554	-8.889	-16.925	-9.259	-17.295
-13.658	-8.615	-14.033	-8.990	-14.407	-9.364	-14.782
-11.301	-8.941	-11.690	-9.330	-12.079	-9.718	-12.467
-8.935	-9.379	-9.343	-9.787	-9.751	-10.195	-10.159
-26.027	-9.303	-26.432	-9.707	-26.836	-10.112	-27.241
-24.465	-9.276	-24.868	-9.679	-25.271	-10.082	-25.675
-22.847	-9.235	-23.249	-9.636	-23.650	-10.038	-24.052
-22.478	-9.061	-22.872	-9.455	-23.266	-9.849	-23.659
-22.530	-8.941	-22.919	-9.330	-23.308	-9.719	-23.697
-22.269	-8.968	-22.659	-9.357	-23.049	-9.747	-23.439
-21.488	-9.073	-21.882	-9.468	-22.276	-9.862	-22.671
-20.641	-8.739	-21.021	-9.119	-21.401	-9.499	-21.781
-19.114	-8.853	-19.499	-9.238	-19.884	-9.622	-20.269
-16.838	-9.398	-17.247	-9.806	-17.655	-10.215	-18.064
-14.353	-9.429	-14.763	-9.839	-15.173	-10.249	-15.583
-11.728	-9.584	-12.145	-10.001	-12.562	-10.417	-12.979
-9.299	-9.353	-9.706	-9.760	-10.112	-10.167	-10.519
-7.477	-9.155	-7.875	-9.553	-8.273	-9.951	-8.671
-6.741	-8.961	-7.131	-9.350	-7.520	-9.740	-7.910
-5.530	-11.568	-6.033	-12.071	-6.536	-12.574	-7.039
-9.776	-11.176	-10.262	-11.662	-10.748	-12.148	-11.234
-8.674	-10.986	-9.151	-11.463	-9.629	-11.941	-10.107
-8.377	-12.010	-8.900	-12.532	-9.422	-13.055	-9.944
-7.722	-11.712	-8.231	-12.221	-8.740	-12.730	-9.249
-7.378	-11.426	-7.875	-11.923	-8.371	-12.420	-8.868
-6.508	-11.383	-7.003	-11.877	-7.498	-12.372	-7.993
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-5.283	-8.657	-5.660	-9.033	-6.036	-9.410	-6.412
-3.803	-8.666	-4.180	-9.043	-4.556	-9.420	-4.933
-3.333	-8.657	-3.710	-9.034	-4.086	-9.410	-4.463
-3.041	-8.703	-3.420	-9.081	-3.798	-9.459	-4.176
-3.079	-8.798	-3.461	-9.181	-3.844	-9.563	-4.226
-3.341	-8.672	-3.718	-9.049	-4.095	-9.426	-4.472
-3.545	-8.349	-3.908	-8.712	-4.271	-9.075	-4.634
-3.466	-7.859	-3.808	-8.200	-4.150	-8.542	-4.491
-3.602	-8.346	-3.965	-8.709	-4.328	-9.071	-4.691
-4.011	-7.998	-4.358	-8.346	-4.706	-8.694	-5.054
-4.614	-8.428	-4.980	-8.794	-5.347	-9.161	-5.713
-5.392	-7.893	-5.735	-8.236	-6.078	-8.580	-6.421
-5.358	-8.758	-5.739	-9.139	-6.119	-9.520	-6.500
-4.279	-9.004	-4.670	-9.395	-5.062	-9.787	-5.453
-3.803	-9.313	-4.208	-9.718	-4.613	-10.123	-5.018
-3.411	-9.665	-3.831	-10.086	-4.251	-10.506	-4.672
-3.073	-9.473	-3.485	-9.885	-3.897	-10.297	-4.308
-2.998	-9.085	-3.393	-9.480	-3.788	-9.875	-4.183
-3.055	-8.703	-3.433	-9.082	-3.812	-9.460	-4.190
-2.839	-8.389	-3.203	-8.754	-3.568	-9.119	-3.933
-2.934	-7.805	-3.274	-8.144	-3.613	-8.484	-3.952
-3.603	-8.470	-3.972	-8.838	-4.340	-9.207	-4.708
-4.285	-8.464	-4.653	-8.832	-5.021	-9.200	-5.389
-5.185	-7.980	-5.532	-8.327	-5.879	-8.674	-6.226
-6.328	-9.525	-6.742	-9.939	-7.156	-10.353	-7.570
-5.212	-9.743	-5.635	-10.167	-6.059	-10.591	-6.482
-4.310	-9.568	-4.726	-9.984	-5.142	-10.400	-5.558
-3.335	-9.059	-3.729	-9.453	-4.123	-9.847	-4.517
-2.633	-8.716	-3.012	-9.095	-3.391	-9.474	-3.770
-2.267	-8.706	-2.645	-9.085	-3.024	-9.463	-3.402
-2.089	-8.093	-2.441	-8.445	-2.793	-8.797	-3.145
-2.046	-7.982	-2.393	-8.329	-2.740	-8.676	-3.088
-2.505	-8.414	-2.871	-8.779	-3.237	-9.145	-3.602
-3.222	-8.635	-3.598	-9.011	-3.973	-9.386	-4.349
-4.099	-8.770	-4.480	-9.152	-4.861	-9.533	-5.243
-4.938	-8.156	-5.293	-8.511	-5.648	-8.866	-6.002
-6.838	-9.586	-7.255	-10.003	-7.671	-10.420	-8.088
-5.614	-9.170	-6.013	-9.569	-6.411	-9.968	-6.810
-4.205	-8.962	-4.594	-9.351	-4.984	-9.741	-5.373
-3.448	-8.997	-3.839	-9.388	-4.231	-9.779	-4.622
-2.527	-8.352	-2.890	-8.715	-3.253	-9.078	-3.617
-1.772	-8.778	-2.154	-9.160	-2.536	-9.542	-2.917
-1.550	-8.684	-1.927	-9.062	-2.305	-9.440	-2.683

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-1.573	-8.410	-1.939	-8.776	-2.305	-9.142	-2.670
-2.246	-8.279	-2.606	-8.639	-2.966	-8.999	-3.326
-3.100	-8.845	-3.485	-9.229	-3.869	-9.614	-4.254
-3.966	-9.168	-4.365	-9.567	-4.764	-9.965	-5.162
-4.803	-8.685	-5.181	-9.063	-5.558	-9.440	-5.936
-6.029	-9.141	-6.426	-9.538	-6.824	-9.936	-7.221
-4.356	-8.932	-4.745	-9.321	-5.133	-9.709	-5.521
-3.496	-8.520	-3.866	-8.891	-4.237	-9.261	-4.607
-2.694	-8.931	-3.083	-9.320	-3.471	-9.708	-3.859
-1.703	-8.731	-2.083	-9.110	-2.463	-9.490	-2.842
-1.396	-9.207	-1.796	-9.608	-2.196	-10.008	-2.597
-1.556	-8.815	-1.939	-9.198	-2.322	-9.581	-2.705
-2.193	-8.484	-2.562	-8.853	-2.931	-9.222	-3.300
-3.204	-9.157	-3.602	-9.555	-4.000	-9.954	-4.398
-4.002	-9.265	-4.405	-9.668	-4.808	-10.070	-5.210
-4.771	-9.084	-5.166	-9.479	-5.561	-9.874	-5.956
-4.877	-8.906	-5.264	-9.293	-5.651	-9.680	-6.038
-5.984	-9.729	-6.407	-10.152	-6.830	-10.575	-7.253
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-20.086	-8.654	-20.462	-9.030	-20.839	-9.407	-21.215
-18.112	-8.271	-18.472	-8.631	-18.831	-8.991	-19.191
-16.323	-8.384	-16.688	-8.749	-17.052	-9.113	-17.417
-14.034	-7.910	-14.377	-8.254	-14.721	-8.598	-15.065
-11.689	-7.956	-12.035	-8.302	-12.381	-8.648	-12.727
-9.419	-7.942	-9.764	-8.288	-10.110	-8.633	-10.455
-7.283	-8.284	-7.643	-8.644	-8.003	-9.004	-8.363
-5.547	-8.326	-5.909	-8.688	-6.271	-9.050	-6.633
-4.291	-8.280	-4.651	-8.640	-5.011	-9.000	-5.371
-3.697	-8.244	-4.055	-8.602	-4.414	-8.961	-4.772
-3.335	-8.221	-3.692	-8.579	-4.050	-8.936	-4.407
-3.692	-8.032	-4.041	-8.381	-4.390	-8.730	-4.739
-4.152	-7.595	-4.482	-7.926	-4.812	-8.256	-5.142
-4.569	-7.371	-4.890	-7.692	-5.210	-8.012	-5.531
-4.946	-7.389	-5.267	-7.710	-5.588	-8.032	-5.910
-5.259	-7.479	-5.584	-7.804	-5.909	-8.129	-6.234
-5.248	-7.584	-5.578	-7.913	-5.908	-8.243	-6.238
-5.892	-7.783	-6.231	-8.121	-6.569	-8.460	-6.908
-20.472	-8.415	-20.838	-8.781	-21.204	-9.147	-21.570
-18.496	-8.433	-18.863	-8.800	-19.230	-9.167	-19.596
-16.592	-8.509	-16.962	-8.879	-17.332	-9.249	-17.702
-13.730	-8.028	-14.079	-8.378	-14.428	-8.727	-14.777
-10.840	-8.384	-11.205	-8.749	-11.569	-9.113	-11.934
-5.620	-7.720	-5.956	-8.056	-6.292	-8.391	-6.627
-20.650	-8.787	-21.032	-9.169	-21.414	-9.551	-21.796
-18.714	-8.704	-19.093	-9.083	-19.471	-9.461	-19.850
-16.307	-8.262	-16.666	-8.621	-17.025	-8.980	-17.384
-13.224	-8.400	-13.589	-8.765	-13.955	-9.131	-14.320
-10.036	-8.419	-10.402	-8.785	-10.768	-9.151	-11.134
-7.364	-8.509	-7.734	-8.879	-8.104	-9.249	-8.474
-5.279	-8.657	-5.655	-9.034	-6.031	-9.410	-6.408
-20.692	-8.809	-21.075	-9.192	-21.458	-9.575	-21.841
-18.579	-8.740	-18.959	-9.120	-19.339	-9.500	-19.719
-15.844	-8.277	-16.204	-8.637	-16.564	-8.997	-16.924
-12.821	-8.265	-13.181	-8.624	-13.540	-8.984	-13.899
-10.162	-8.669	-10.539	-9.045	-10.916	-9.422	-11.293
-7.459	-8.637	-7.834	-9.013	-8.210	-9.388	-8.585
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-4.513	-10.486	-4.969	-10.942	-5.425	-11.398	-5.881
-6.497	-11.383	-6.992	-11.877	-7.487	-12.372	-7.982
-5.520	-12.830	-6.078	-13.388	-6.636	-13.946	-7.193
-4.361	-12.594	-4.908	-13.142	-5.456	-13.690	-6.003
-3.592	-10.846	-4.064	-11.318	-4.535	-11.789	-5.007
-3.580	-10.581	-4.040	-11.041	-4.500	-11.501	-4.960
-4.403	-10.595	-4.863	-11.056	-5.324	-11.517	-5.785
-6.191	-12.542	-6.736	-13.087	-7.281	-13.633	-7.827
-5.771	-13.350	-6.351	-13.930	-6.932	-14.510	-7.512
-5.614	-13.618	-6.206	-14.210	-6.798	-14.802	-7.390
-5.355	-11.796	-5.868	-12.309	-6.381	-12.822	-6.894
-5.938	-11.528	-6.440	-12.029	-6.941	-12.530	-7.442
-6.855	-11.952	-7.375	-12.472	-7.894	-12.992	-8.414
-7.797	-12.525	-8.342	-13.070	-8.886	-13.615	-9.431
-7.220	-12.372	-7.757	-12.910	-8.295	-13.448	-8.833
-7.742	-15.439	-8.413	-16.110	-9.085	-16.782	-9.756
-7.418	-14.405	-8.044	-15.031	-8.670	-15.657	-9.297
-7.617	-13.639	-8.210	-14.232	-8.803	-14.825	-9.396
-7.895	-12.455	-8.437	-12.996	-8.978	-13.538	-9.520
-8.881	-11.675	-9.389	-12.182	-9.896	-12.690	-10.404
-10.481	-13.915	-11.086	-14.520	-11.691	-15.125	-12.296
-9.796	-14.298	-10.417	-14.919	-11.039	-15.541	-11.661
-10.150	-17.586	-10.915	-18.351	-11.680	-19.115	-12.444
-9.463	-14.675	-10.101	-15.313	-10.739	-15.951	-11.377

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-9.361	-17.483	-10.121	-18.243	-10.881	-19.003	-11.641
-9.006	-14.391	-9.632	-15.017	-10.258	-15.643	-10.883
-9.413	-13.939	-10.019	-14.545	-10.625	-15.151	-11.231
-10.285	-12.392	-10.824	-12.931	-11.363	-13.469	-11.902
-11.816	-15.421	-12.486	-16.092	-13.157	-16.762	-13.827
-11.534	-16.092	-12.234	-16.792	-12.933	-17.492	-13.633
-11.921	-16.452	-12.636	-17.168	-13.351	-17.883	-14.067
-11.829	-17.473	-12.589	-18.233	-13.349	-18.993	-14.108
-11.379	-18.175	-12.169	-18.965	-12.959	-19.755	-13.749
-10.950	-18.282	-11.745	-19.077	-12.540	-19.872	-13.335
-11.051	-15.283	-11.715	-15.947	-12.380	-16.612	-13.044
-11.306	-12.393	-11.844	-12.932	-12.383	-13.471	-12.922
-13.033	-13.878	-13.636	-14.481	-14.239	-15.084	-14.843
-12.119	-14.075	-12.731	-14.687	-13.343	-15.299	-13.954
-12.196	-14.709	-12.835	-15.348	-13.475	-15.988	-14.114
-12.687	-15.196	-13.347	-15.857	-14.008	-16.518	-14.669
-13.087	-15.616	-13.766	-16.295	-14.445	-16.974	-15.124
-13.248	-17.220	-13.997	-17.969	-14.746	-18.718	-15.494
-13.129	-17.130	-13.874	-17.875	-14.619	-18.620	-15.364
-12.858	-14.670	-13.496	-15.307	-14.134	-15.945	-14.772
-12.876	-12.961	-13.440	-13.524	-14.003	-14.088	-14.567
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-18.023	-11.722	-18.533	-12.232	-19.042	-12.741	-19.552
-17.725	-14.112	-18.338	-14.726	-18.952	-15.339	-19.565
-16.610	-13.971	-17.217	-14.579	-17.824	-15.186	-18.432
-16.127	-16.524	-16.846	-17.243	-17.564	-17.961	-18.283
-15.791	-14.719	-16.431	-15.359	-17.071	-15.999	-17.711
-15.192	-12.041	-15.716	-12.565	-16.239	-13.088	-16.763
-15.516	-13.045	-16.083	-13.612	-16.650	-14.179	-17.217
-15.482	-15.045	-16.137	-15.699	-16.791	-16.353	-17.445
-14.723	-15.509	-15.398	-16.183	-16.072	-16.858	-16.746
-13.972	-16.017	-14.668	-16.714	-15.365	-17.410	-16.061
-13.066	-17.418	-13.823	-18.175	-14.580	-18.932	-15.337
-11.734	-16.423	-12.448	-17.137	-13.162	-17.851	-13.876
-10.455	-13.913	-11.060	-14.518	-11.665	-15.123	-12.270
-17.678	-12.760	-18.233	-13.315	-18.788	-13.870	-19.343
-17.944	-15.681	-18.626	-16.362	-19.308	-17.044	-19.990
-16.877	-12.833	-17.435	-13.391	-17.993	-13.949	-18.551
-16.526	-15.746	-17.210	-16.431	-17.895	-17.116	-18.579
-16.070	-14.885	-16.717	-15.533	-17.364	-16.180	-18.011
-15.575	-12.529	-16.119	-13.074	-16.664	-13.619	-17.209
-15.676	-13.290	-16.254	-13.868	-16.832	-14.446	-17.410
-15.967	-14.910	-16.616	-15.558	-17.264	-16.206	-17.912
-15.707	-15.334	-16.374	-16.001	-17.041	-16.668	-17.707
-15.014	-15.136	-15.672	-15.794	-16.330	-16.452	-16.988
-14.143	-16.417	-14.857	-17.131	-15.571	-17.845	-16.285
-12.416	-14.886	-13.063	-15.533	-13.711	-16.180	-14.358
-16.280	-13.451	-16.865	-14.036	-17.450	-14.621	-18.035
-16.397	-14.381	-17.022	-15.006	-17.648	-15.631	-18.273
-16.543	-14.079	-17.156	-14.692	-17.768	-15.304	-18.380
-16.666	-14.221	-17.285	-14.839	-17.903	-15.458	-18.521
-16.859	-13.993	-17.468	-14.601	-18.076	-15.210	-18.684
-16.186	-15.895	-16.877	-16.586	-17.568	-17.277	-18.259
-13.069	-13.878	-13.672	-14.481	-14.275	-15.084	-14.879
-17.253	-14.007	-17.862	-14.616	-18.471	-15.225	-19.080
-17.278	-13.826	-17.879	-14.427	-18.480	-15.028	-19.081
-17.636	-13.651	-18.230	-14.245	-18.824	-14.838	-19.417
-18.293	-13.713	-18.889	-14.310	-19.485	-14.906	-20.081
-19.018	-13.621	-19.610	-14.213	-20.203	-14.805	-20.795
-18.577	-13.819	-19.178	-14.419	-19.778	-15.020	-20.379
-15.825	-14.105	-16.438	-14.718	-17.052	-15.332	-17.665
-13.812	-13.317	-14.391	-13.896	-14.970	-14.475	-15.549
-13.618	-14.174	-14.234	-14.790	-14.851	-15.406	-15.467
-13.938	-14.642	-14.574	-15.279	-15.211	-15.916	-15.847
-14.434	-14.960	-15.084	-15.610	-15.735	-16.260	-16.385
-15.314	-16.961	-16.051	-17.699	-16.789	-18.436	-17.526
-15.140	-15.674	-15.821	-16.356	-16.503	-17.037	-17.184
-15.087	-13.732	-15.684	-14.329	-16.281	-14.926	-16.878
-15.452	-14.815	-16.096	-15.459	-16.740	-16.103	-17.384
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-19.948	-10.615	-20.410	-11.076	-20.871	-11.538	-21.333
-18.835	-10.690	-19.300	-11.155	-19.764	-11.620	-20.229
-17.450	-10.736	-17.917	-11.203	-18.384	-11.670	-18.850
-16.021	-10.425	-16.474	-10.879	-16.927	-11.332	-17.381
-14.962	-10.194	-15.406	-10.637	-15.849	-11.080	-16.292
-14.522	-11.503	-15.023	-12.003	-15.523	-12.504	-16.023
-13.838	-10.841	-14.309	-11.312	-14.780	-11.784	-15.252
-12.998	-10.695	-13.463	-11.160	-13.928	-11.625	-14.393
-11.692	-11.204	-12.180	-11.691	-12.667	-12.178	-13.154
-19.458	-11.740	-19.968	-12.251	-20.479	-12.761	-20.989
-18.205	-11.226	-18.693	-11.714	-19.181	-12.202	-19.670

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-16.692	-11.243	-17.181	-11.732	-17.670	-12.221	-18.158
-15.850	-11.904	-16.367	-12.422	-16.885	-12.939	-17.402
-15.083	-11.268	-15.573	-11.758	-16.063	-12.248	-16.553
-14.842	-11.360	-15.336	-11.854	-15.830	-12.348	-16.324
-14.558	-11.635	-15.064	-12.140	-15.570	-12.646	-16.076
-13.942	-11.856	-14.458	-12.372	-14.973	-12.887	-15.489
-12.893	-12.080	-13.419	-12.605	-13.944	-13.130	-14.469
-11.601	-13.051	-12.168	-13.618	-12.736	-14.186	-13.303
-10.275	-12.887	-10.836	-13.448	-11.396	-14.008	-11.956
-9.130	-12.825	-9.687	-13.383	-10.245	-13.940	-10.802
-8.018	-12.654	-8.568	-13.204	-9.118	-13.754	-9.669
-6.814	-11.555	-7.316	-12.057	-7.818	-12.560	-8.321
-6.215	-12.543	-6.761	-13.088	-7.306	-13.633	-7.851
-18.852	-11.915	-19.370	-12.433	-19.888	-12.951	-20.406
-17.913	-11.765	-18.425	-12.276	-18.936	-12.788	-19.448
-17.200	-15.517	-17.874	-16.192	-18.549	-16.866	-19.223
-15.807	-13.033	-16.374	-13.600	-16.940	-14.167	-17.507
-15.674	-13.580	-16.265	-14.171	-16.855	-14.761	-17.446
-15.320	-12.028	-15.843	-12.551	-16.366	-13.074	-16.889
-15.812	-14.551	-16.445	-15.183	-17.077	-15.816	-17.710
-15.185	-13.378	-15.767	-13.959	-16.348	-14.541	-16.930
-14.327	-15.933	-15.019	-16.626	-15.712	-17.319	-16.405
-13.173	-16.979	-13.911	-17.718	-14.649	-18.456	-15.388
-11.621	-14.396	-12.247	-15.022	-12.872	-15.648	-13.498
-10.231	-14.152	-10.846	-14.767	-11.461	-15.382	-12.077
-8.932	-14.206	-9.549	-14.824	-10.167	-15.441	-10.785
-7.777	-12.527	-8.322	-13.071	-8.866	-13.616	-9.411
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-6.014	-10.133	-6.455	-10.574	-6.895	-11.015	-7.336
-8.318	-8.461	-8.686	-8.829	-9.054	-9.197	-9.422
-6.211	-8.391	-6.576	-8.756	-6.940	-9.121	-7.305
-4.519	-8.431	-4.886	-8.798	-5.252	-9.164	-5.619
-3.452	-8.448	-3.819	-8.815	-4.186	-9.183	-4.553
-2.954	-8.425	-3.321	-8.792	-3.687	-9.158	-4.053
-2.875	-8.483	-3.244	-8.852	-3.613	-9.220	-3.982
-3.283	-8.388	-3.648	-8.752	-4.012	-9.117	-4.377
-3.690	-7.997	-4.037	-8.344	-4.385	-8.692	-4.733
-4.027	-7.617	-4.358	-7.948	-4.689	-8.279	-5.020
-4.194	-7.526	-4.521	-7.854	-4.848	-8.181	-5.175
-4.585	-7.593	-4.915	-7.923	-5.245	-8.253	-5.575
-4.955	-7.877	-5.297	-8.220	-5.640	-8.562	-5.982
-5.922	-9.729	-6.345	-10.152	-6.768	-10.575	-7.191
-4.462	-10.487	-4.918	-10.943	-5.374	-11.399	-5.830
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-4.503	-12.176	-5.032	-12.705	-5.562	-13.235	-6.091
-4.561	-12.303	-5.096	-12.838	-5.630	-13.373	-6.165
-4.589	-12.606	-5.137	-13.154	-5.685	-13.702	-6.233
-4.694	-12.797	-5.250	-13.353	-5.807	-13.910	-6.363
-4.717	-12.797	-5.273	-13.353	-5.830	-13.909	-6.386
-4.680	-12.662	-5.231	-13.212	-5.781	-13.763	-6.332
-4.567	-12.488	-5.109	-13.031	-5.652	-13.574	-6.195
-4.421	-12.215	-4.953	-12.747	-5.484	-13.278	-6.015
-4.303	-12.157	-4.832	-12.686	-5.360	-13.215	-5.889
-4.136	-12.396	-4.675	-12.935	-5.214	-13.474	-5.753
-3.998	-12.471	-4.540	-13.013	-5.082	-13.555	-5.624
-3.874	-12.557	-4.420	-13.102	-4.966	-13.648	-5.512
-3.772	-12.484	-4.314	-13.026	-4.857	-13.569	-5.400
-3.658	-12.199	-4.188	-12.729	-4.718	-13.260	-5.249
-3.570	-11.907	-4.087	-12.425	-4.605	-12.942	-5.123
-3.504	-11.466	-4.002	-11.964	-4.501	-12.463	-5.000
-3.545	-11.253	-4.035	-11.742	-4.524	-12.232	-5.013
-3.493	-10.828	-3.964	-11.299	-4.434	-11.770	-4.905
-26.674	-9.392	-27.082	-9.801	-27.491	-10.209	-27.899
-26.625	-9.401	-27.034	-9.810	-27.442	-10.219	-27.851
-26.558	-9.427	-26.968	-9.837	-27.378	-10.247	-27.788
-26.398	-9.448	-26.808	-9.859	-27.219	-10.269	-27.630
-26.307	-9.451	-26.718	-9.862	-27.129	-10.273	-27.540
-26.160	-9.457	-26.571	-9.868	-26.982	-10.279	-27.393
-25.980	-9.436	-26.390	-9.846	-26.800	-10.256	-27.210
-25.766	-9.431	-26.176	-9.841	-26.586	-10.251	-26.997
-25.483	-9.452	-25.894	-9.863	-26.305	-10.274	-26.716
-25.070	-9.474	-25.482	-9.886	-25.894	-10.297	-26.306
-24.630	-9.420	-25.039	-9.829	-25.449	-10.239	-25.858
-24.122	-9.469	-24.534	-9.881	-24.945	-10.293	-25.357
-23.636	-9.551	-24.052	-9.966	-24.467	-10.381	-24.882
-23.159	-9.520	-23.573	-9.934	-23.986	-10.348	-24.400
-22.739	-9.530	-23.153	-9.945	-23.568	-10.359	-23.982
-22.470	-9.550	-22.885	-9.965	-23.301	-10.380	-23.716
-22.239	-9.556	-22.655	-9.971	-23.070	-10.387	-23.486
-22.068	-9.537	-22.483	-9.952	-22.897	-10.367	-23.312

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-22.047	-9.525	-22.461	-9.939	-22.876	-10.353	-23.290
-22.047	-9.462	-22.459	-9.874	-22.870	-10.285	-23.282
-22.040	-9.475	-22.452	-9.887	-22.864	-10.299	-23.276
-22.072	-9.411	-22.481	-9.820	-22.890	-10.229	-23.299
-22.163	-9.327	-22.569	-9.732	-22.974	-10.138	-23.380
-22.239	-9.432	-22.649	-9.842	-23.059	-10.252	-23.469
-22.350	-9.296	-22.755	-9.701	-23.159	-10.105	-23.563
-22.391	-9.194	-22.791	-9.594	-23.191	-9.993	-23.590
-22.485	-9.167	-22.884	-9.565	-23.282	-9.964	-23.681
-22.551	-9.459	-22.962	-9.871	-23.373	-10.282	-23.785
-22.589	-9.440	-23.000	-9.850	-23.410	-10.261	-23.821
-22.460	-9.459	-22.871	-9.870	-23.282	-10.281	-23.694
-22.375	-9.424	-22.784	-9.834	-23.194	-10.244	-23.604
-22.235	-9.404	-22.644	-9.813	-23.053	-10.222	-23.462
-22.095	-9.424	-22.505	-9.834	-22.915	-10.244	-23.325
-21.932	-9.393	-22.340	-9.801	-22.748	-10.209	-23.157
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-19.390	-7.584	-19.720	-7.913	-20.049	-8.243	-20.379
-17.375	-7.542	-17.703	-7.869	-18.031	-8.197	-18.359
-15.675	-7.588	-16.005	-7.918	-16.335	-8.248	-16.665
-14.090	-7.845	-14.431	-8.186	-14.772	-8.527	-15.113
-12.689	-8.188	-13.045	-8.544	-13.401	-8.900	-13.757
-11.133	-7.609	-11.463	-7.940	-11.794	-8.271	-12.125
-9.637	-7.839	-9.978	-8.180	-10.319	-8.521	-10.660
-8.186	-7.791	-8.525	-8.130	-8.864	-8.469	-9.202
-7.110	-7.984	-7.457	-8.332	-7.804	-8.679	-8.152
-6.341	-8.046	-6.691	-8.396	-7.040	-8.746	-7.390
-5.766	-7.998	-6.114	-8.346	-6.462	-8.693	-6.810
-5.537	-7.747	-5.874	-8.084	-6.210	-8.421	-6.547
-5.795	-7.657	-6.128	-7.989	-6.461	-8.322	-6.794
-5.870	-7.382	-6.191	-7.703	-6.512	-8.024	-6.832
-5.771	-7.221	-6.085	-7.535	-6.399	-7.849	-6.713
-5.817	-7.325	-6.136	-7.644	-6.454	-7.962	-6.773
-6.180	-7.636	-6.512	-7.968	-6.844	-8.300	-7.176
-6.457	-8.038	-6.807	-8.388	-7.156	-8.737	-7.506
-19.447	-7.839	-19.788	-8.179	-20.129	-8.520	-20.470
-17.511	-8.287	-17.871	-8.647	-18.231	-9.008	-18.592
-15.865	-7.982	-16.212	-8.329	-16.559	-8.676	-16.906
-14.176	-8.156	-14.530	-8.511	-14.885	-8.865	-15.240
-12.343	-7.687	-12.677	-8.022	-13.012	-8.356	-13.346
-10.416	-7.687	-10.750	-8.022	-11.084	-8.356	-11.419
-8.575	-8.311	-8.936	-8.673	-9.297	-9.034	-9.659
-6.869	-8.094	-7.221	-8.445	-7.572	-8.797	-7.924
-5.646	-8.172	-6.001	-8.527	-6.357	-8.883	-6.712
-4.935	-8.121	-5.288	-8.474	-5.641	-8.827	-5.994
-4.591	-8.078	-4.943	-8.429	-5.294	-8.780	-5.645
-4.645	-8.077	-4.996	-8.428	-5.347	-8.779	-5.698
-4.985	-8.035	-5.334	-8.384	-5.684	-8.734	-6.033
-5.150	-7.235	-5.464	-7.550	-5.779	-7.865	-6.093
-5.304	-7.328	-5.623	-7.646	-5.941	-7.965	-6.260
-5.376	-7.395	-5.697	-7.717	-6.019	-8.038	-6.340
-5.623	-7.641	-5.955	-7.973	-6.287	-8.306	-6.619
-6.302	-8.425	-6.668	-8.791	-7.034	-9.158	-7.401
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-3.533	-10.855	-4.005	-11.327	-4.477	-11.799	-4.949
-3.645	-11.009	-4.124	-11.488	-4.603	-11.967	-5.081
-3.780	-11.155	-4.265	-11.639	-4.750	-12.124	-5.235
-3.938	-11.325	-4.430	-11.817	-4.923	-12.309	-5.415
-4.194	-11.612	-4.699	-12.117	-5.204	-12.622	-5.709
-4.412	-11.808	-4.925	-12.322	-5.439	-12.835	-5.952
-4.574	-11.507	-5.074	-12.007	-5.574	-12.507	-6.074
-4.757	-11.128	-5.240	-11.611	-5.724	-12.095	-6.208
-4.933	-10.872	-5.405	-11.344	-5.878	-11.817	-6.351
-5.188	-10.801	-5.658	-11.271	-6.128	-11.740	-6.597
-5.448	-11.224	-5.936	-11.712	-6.424	-12.200	-6.912
-5.706	-11.366	-6.200	-11.860	-6.694	-12.354	-7.188
-6.034	-11.923	-6.553	-12.442	-7.071	-12.960	-7.590
-6.495	-12.897	-7.056	-13.457	-7.616	-14.018	-8.177
-19.932	-7.644	-20.265	-7.977	-20.597	-8.309	-20.930
-18.619	-7.576	-18.949	-7.905	-19.278	-8.234	-19.608
-17.181	-7.496	-17.507	-7.822	-17.833	-8.148	-18.159
-15.677	-7.451	-16.001	-7.775	-16.325	-8.099	-16.649
-13.975	-7.315	-14.293	-7.634	-14.611	-7.952	-14.929
-12.463	-7.322	-12.781	-7.640	-13.100	-7.959	-13.418
-11.331	-7.317	-11.649	-7.635	-11.967	-7.954	-12.285
-10.325	-7.254	-10.641	-7.569	-10.956	-7.885	-11.271
-9.472	-7.126	-9.781	-7.436	-10.091	-7.746	-10.401
-8.589	-7.175	-8.901	-7.487	-9.213	-7.799	-9.524
-7.890	-7.115	-8.199	-7.424	-8.509	-7.733	-8.818
-7.830	-8.005	-8.178	-8.353	-8.526	-8.701	-8.874
-7.550	-7.830	-7.891	-8.170	-8.231	-8.510	-8.572

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-7.089	-7.966	-7.435	-8.312	-7.782	-8.659	-8.128
-6.572	-7.018	-6.877	-7.323	-7.183	-7.628	-7.488
-6.470	-7.125	-6.779	-7.435	-7.089	-7.745	-7.399
-6.480	-7.506	-6.807	-7.832	-7.133	-8.158	-7.459
-6.267	-7.778	-6.605	-8.116	-6.943	-8.454	-7.281
-19.738	-7.634	-20.070	-7.966	-20.402	-8.298	-20.734
-17.880	-7.551	-18.208	-7.879	-18.536	-8.208	-18.864
-16.124	-7.466	-16.449	-7.790	-16.773	-8.115	-17.098
-14.352	-7.397	-14.674	-7.718	-14.995	-8.040	-15.317
-12.785	-7.406	-13.107	-7.728	-13.429	-8.050	-13.751
-11.555	-7.392	-11.876	-7.714	-12.197	-8.035	-12.519
-10.406	-7.452	-10.730	-7.776	-11.054	-8.100	-11.378
-9.174	-7.300	-9.492	-7.617	-9.809	-7.935	-10.127
-8.268	-7.356	-8.588	-7.676	-8.908	-7.995	-9.228
-7.496	-7.536	-7.824	-7.863	-8.152	-8.191	-8.479
-6.928	-7.923	-7.273	-8.268	-7.617	-8.612	-7.962
-6.701	-7.708	-7.036	-8.043	-7.371	-8.378	-7.706
-6.565	-7.475	-6.890	-7.800	-7.215	-8.125	-7.540
-6.340	-7.202	-6.654	-7.515	-6.967	-7.828	-7.280
-6.118	-7.062	-6.425	-7.369	-6.732	-7.676	-7.039
-6.154	-7.251	-6.469	-7.566	-6.785	-7.882	-7.100
-6.421	-7.643	-6.754	-7.975	-7.086	-8.307	-7.418
-6.619	-7.957	-6.965	-8.303	-7.311	-8.649	-7.657
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.468	-12.894	-7.029	-13.454	-7.590	-14.015	-8.150
-6.770	-13.034	-7.337	-13.601	-7.903	-14.167	-8.470
-6.839	-12.314	-7.375	-12.850	-7.910	-13.385	-8.445
-7.024	-11.969	-7.544	-12.490	-8.064	-13.010	-8.585
-7.288	-11.808	-7.801	-12.321	-8.315	-12.834	-8.828
-7.586	-11.876	-8.102	-12.393	-8.618	-12.909	-9.135
-7.824	-11.954	-8.344	-12.474	-8.864	-12.994	-9.383
-8.125	-12.002	-8.647	-12.524	-9.169	-13.046	-9.691
-8.436	-12.137	-8.964	-12.665	-9.491	-13.192	-10.019
-8.616	-11.812	-9.130	-12.325	-9.643	-12.839	-10.157
-8.908	-11.698	-9.416	-12.207	-9.925	-12.715	-10.434
-8.004	-9.431	-8.414	-9.841	-8.824	-10.251	-9.234
-8.099	-9.414	-8.509	-9.823	-8.918	-10.232	-9.327
-8.218	-9.475	-8.630	-9.887	-9.042	-10.299	-9.454
-8.300	-9.501	-8.713	-9.914	-9.126	-10.327	-9.539
-8.366	-9.531	-8.780	-9.945	-9.194	-10.360	-9.609
-8.400	-9.565	-8.816	-9.981	-9.232	-10.397	-9.648
-8.456	-9.604	-8.874	-10.022	-9.292	-10.439	-9.709
-8.586	-9.731	-9.009	-10.154	-9.432	-10.578	-9.855
-8.602	-9.819	-9.029	-10.246	-9.456	-10.673	-9.883
-8.563	-9.906	-8.994	-10.337	-9.424	-10.768	-9.855
-8.524	-9.981	-8.957	-10.415	-9.391	-10.849	-9.825
-8.536	-10.027	-8.972	-10.463	-9.408	-10.899	-9.844
-8.486	-10.072	-8.923	-10.510	-9.361	-10.948	-9.799
-8.365	-9.992	-8.800	-10.427	-9.234	-10.861	-9.669
-8.325	-10.010	-8.761	-10.445	-9.196	-10.881	-9.631
-8.322	-10.076	-8.760	-10.514	-9.198	-10.952	-9.636
-8.282	-10.126	-8.722	-10.566	-9.162	-11.006	-9.602
-8.344	-10.216	-8.788	-10.660	-9.233	-11.105	-9.677
-8.336	-10.260	-8.782	-10.707	-9.228	-11.153	-9.674
-8.424	-10.383	-8.875	-10.835	-9.327	-11.286	-9.778
-8.577	-10.587	-9.038	-11.047	-9.498	-11.508	-9.958
-8.672	-10.903	-9.146	-11.377	-9.620	-11.851	-10.094
-8.892	-11.295	-9.383	-11.787	-9.874	-12.278	-10.365
-9.060	-11.650	-9.566	-12.157	-10.073	-12.664	-10.579
-9.224	-11.795	-9.737	-12.307	-10.250	-12.820	-10.763
-9.350	-11.521	-9.851	-12.021	-10.352	-12.522	-10.853
-9.461	-11.333	-9.954	-11.825	-10.447	-12.318	-10.939
-9.651	-11.528	-10.152	-12.029	-10.653	-12.530	-11.155
-9.930	-12.183	-10.459	-12.713	-10.989	-13.243	-11.519
-10.341	-13.060	-10.909	-13.627	-11.476	-14.195	-12.044
-10.810	-13.834	-11.412	-14.435	-12.013	-15.037	-12.615
-11.076	-14.352	-11.700	-14.976	-12.324	-15.600	-12.948
-10.941	-13.184	-11.514	-13.757	-12.088	-14.330	-12.661
-10.930	-12.659	-11.481	-13.210	-12.031	-13.760	-12.581
-11.177	-12.730	-11.730	-13.283	-12.284	-13.837	-12.837
-11.405	-12.935	-11.967	-13.497	-12.530	-14.060	-13.092
-11.686	-13.408	-12.269	-13.991	-12.852	-14.574	-13.435
-12.303	-16.838	-13.035	-17.570	-13.767	-18.302	-14.499
-12.300	-17.037	-13.041	-17.778	-13.782	-18.519	-14.522
-12.438	-17.470	-13.198	-18.230	-13.957	-18.989	-14.717
-12.560	-17.407	-13.317	-18.164	-14.074	-18.921	-14.830
-12.819	-17.018	-13.559	-17.758	-14.299	-18.498	-15.039
-12.906	-16.732	-13.633	-17.460	-14.361	-18.187	-15.088
-13.150	-16.678	-13.875	-17.403	-14.600	-18.128	-15.326
-13.535	-16.728	-14.263	-17.455	-14.990	-18.182	-15.717
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834
-6.720	-8.542	-7.091	-8.913	-7.463	-9.285	-7.834

Bouguer Anomaly(2.2)	bouguer corrn (2.3)	Bouguer Anomaly(2.3)	bouguer corrn (2.4)	Bouguer Anomaly(2.4)	bouguer corrn (2.5)	Bouguer Anomaly(2.5)
-12.574	-8.162	-12.929	-8.517	-13.284	-8.872	-13.639
-12.325	-8.034	-12.675	-8.383	-13.024	-8.733	-13.373
-11.986	-7.699	-12.320	-8.034	-12.655	-8.368	-12.990
-11.636	-7.564	-11.965	-7.893	-12.294	-8.221	-12.623
-11.209	-7.668	-11.542	-8.002	-11.876	-8.335	-12.209
-10.824	-7.689	-11.158	-8.024	-11.492	-8.358	-11.827
-10.332	-7.817	-10.672	-8.157	-11.012	-8.497	-11.352
-9.835	-7.824	-10.175	-8.165	-10.515	-8.505	-10.855
-9.318	-7.918	-9.662	-8.262	-10.007	-8.607	-10.351
-8.816	-8.070	-9.167	-8.421	-9.518	-8.772	-9.869
-8.289	-8.177	-8.645	-8.533	-9.000	-8.888	-9.356
-7.830	-8.411	-8.196	-8.777	-8.562	-9.142	-8.927
-7.342	-8.418	-7.708	-8.784	-8.074	-9.150	-8.440
-6.802	-8.429	-7.169	-8.796	-7.535	-9.162	-7.902
-6.315	-8.405	-6.680	-8.770	-7.046	-9.136	-7.411
-5.930	-8.448	-6.297	-8.815	-6.664	-9.182	-7.032
-5.446	-8.491	-5.815	-8.860	-6.185	-9.230	-6.554
-4.987	-8.584	-5.360	-8.957	-5.733	-9.330	-6.106
-4.616	-8.660	-4.993	-9.036	-5.369	-9.413	-5.746
-4.338	-8.672	-4.715	-9.049	-5.092	-9.427	-5.469
-4.096	-8.597	-4.470	-8.971	-4.844	-9.345	-5.218
-4.052	-8.667	-4.429	-9.044	-4.806	-9.420	-5.182
-4.159	-8.789	-4.541	-9.171	-4.923	-9.553	-5.306
-4.221	-9.054	-4.614	-9.448	-5.008	-9.842	-5.402
-4.399	-9.329	-4.804	-9.734	-5.210	-10.140	-5.615
-4.608	-9.763	-5.032	-10.187	-5.457	-10.612	-5.881
-4.714	-9.762	-5.138	-10.186	-5.563	-10.611	-5.987
-4.724	-9.662	-5.144	-10.082	-5.564	-10.503	-5.984
-4.669	-9.508	-5.083	-9.921	-5.496	-10.334	-5.910
-4.547	-9.345	-4.953	-9.751	-5.359	-10.158	-5.766
-4.389	-9.226	-4.790	-9.628	-5.191	-10.029	-5.592
-4.201	-9.084	-4.596	-9.479	-4.991	-9.874	-5.386
-4.083	-8.974	-4.473	-9.364	-4.863	-9.754	-5.253
-3.918	-8.940	-4.307	-9.329	-4.695	-9.717	-5.084
-3.888	-8.893	-4.274	-9.279	-4.661	-9.666	-5.048

0702

OODNADATTA-MOUNT CARULINA GRAVITY SURVEY

BARRICK GOLD OF AUSTRALIA LTD

MARCH-APRIL 2007

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Introduction

Two regional GPS gravity surveys collectively designated as Oodnadatta-Mount Carulina Gravity Survey (separately as Oodnadatta 2007 and Mount Carulina) have been carried out in areas 15 to 55 kilometres south east and immediately west of Oodnadatta in South Australia over 15 days between 20 March 2007 and 5 April 2007 on behalf of Barrick Gold of Australia Ltd.

The originally proposed Oodnadatta 2007 survey was for 928 stations in 62 irregular west-east lines coincident with MGA94 with line spacing of 800 and 400 metres and a station spacing of 800 metres bounded in the south west by MGA94 Zone 53 544800E 6903200N and in the north east by 568000E 6939600N. The survey was designed to extend and infill a 2006 survey also conducted by Haines Surveys. After initial completion of the survey a further 32 infill stations centred on 8 stations were requested giving a grand total of 960 stations. The survey was completed as proposed however, due to terrain and conditions, there are some larger than normal proposed-observed station eccentricities in the data set. There were 53 observations repeated for quality control purposes giving a repeat rate of 5.5%. There were a further 19 stations from the previous survey repeated for comparison purposes.

After the initial proposal for the Mount Carulina survey was modified due to access issues, the finally proposed survey was for 69 new stations in 10 south-north lines coincident with AMG84 with line spacings of 1000, 800 and 400 metres and station spacings of 1000 and 800 metres bounded in the south west by AMG84 Zone 53 532071E 6950228N and in the north east by 538271E. The western half of the survey overlapped a 1995 gravity survey and the proposal required repeat observations on at least 20 of the previously observed stations. After initial results showed the current survey to be incompatible with the 1995 survey, it was requested that the remaining accessible 1995 stations (a total of 52) be observed. The completed survey comprised 69 new stations and 73 reobserved 1995 stations.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Figure 1 on the following page shows the location of the survey areas.

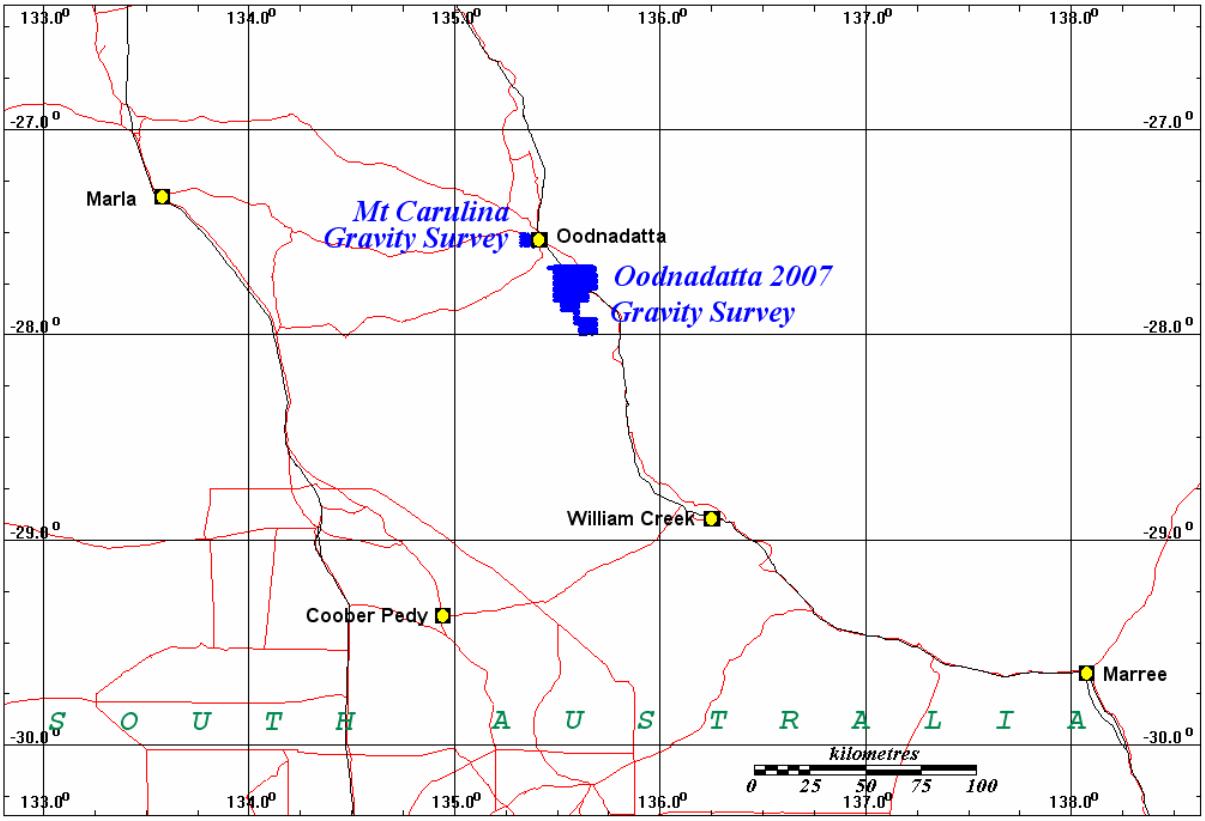


Figure 1. Location Diagram

Survey and Gravity Datum

Oodnadatta 2007

Horizontal Datum:	Geocentric Datum of Australia1994 (GDA94) Map Grid of Australia 1994 (MGA94) Zone 53

Mount Carulina

Horizontal Datum:	Australian Geodetic Datum 1966 (AGD66) Australian Map Grid 1966 (AMG66) Zone 53
Vertical Datum:	Australian Height Datum (AHD)
Gravity Datum:	Isogal 1984/IGSN 71

Survey and Gravity Base Stations

Two new base stations were established in each of the survey areas in positions to provide good VHF radio coverage for the RTK GPS system. The bases were designated as 2007.0201 for Oodnadatta and 2002.0202 for Mount Carulina. Each base is marked with a short star picket driven flush with the natural surface and witnessed by a 1 metre high star picket within 0.3m of the ground mark. An aluminium tag is attached to the witness pickets marked with the inscription "Haines Surveys Gravity 2007.0201" and "Haines Surveys Gravity 2007.0202.

Also used for the Oodnadatta survey were 2 of the bases established for the 2006 survey.

Subsidiary bases were located nearby the main bases to provide an additional check on the main base station loop ties. Subsidiary base 2007.0299 was used for main bases 2006.5102 and 2006.5103, 2007.0298 was used for 2007.0201 and 2007.0297 was used for the Mount Carulina main base. None of the subsidiary bases are marked but 2007.0298 and 2007.0297 were fixed by RTK observations and these coordinates along with the navigational quality values for 2007.0299 are listed in the table below.

Survey Control

Horizontal and vertical control for 2007.0201 has been established using Static GPS baseline techniques from the existing base, 2006.5103 from the 2006 Oodnadatta Gravity Survey using control values obtained from Haines Surveys records.

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Horizontal and vertical control for 2007.0202 has been established using Static GPS baseline techniques from the South Australian State Survey Mark 5942.1053 using AMG84 and AHD control values obtained from South Australian Department of Environment and Heritage Land Services Group.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height and the AUSGEOID98 gravimetric geoid.

Gravity Control

Gravity control for both 2007.0201 and 2007.0202 bases has been established on the Australian Fundamental Gravity Network (Isogal 1984/IGSN 71) using repeated loop closures from the AGSO gravity station 6491.0136, Oodnadatta Airport Terminal. The value for 6491.0136 was obtained from Geoscience Australia.

Survey and Gravity Control Values

Control information (**WGS84 heights have been derived using AusGeoid98**):

OODNADATTA SURVEY / GRAVITY CONTROL

	GDA 94			MGA94 Zone 53		AHD	Isogal84
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mgal
2007.0201	-27° 56' 33.02417"	135° 38' 54.27982"	92.783	563787.986	6908997.292	85.320	979144.255
2007.0298	-27° 47' 05.59242"	135° 37' 43.05001"	93.538	561931.009	6926468.075	85.948	979130.195
2007.0299	-27° 43' 51.2"	135° 33' 46.5"	107	555485	6932480	100	979124.155
2006.5102	-27° 44' 13.20631"	135° 32' 32.00746"	112.504	553442.192	6931813.041	105.126	979122.441
2006.5103	-27° 48' 17.74593"	135° 37' 05.90963"	96.158	560903.423	6924252.997	88.615	979130.365
6491.0136	-27° 33' 18.8"	135° 26' 10.6"	120	543070	6951992	112	979085.916

MOUNT CARULINA SURVEY / GRAVITY CONTROL

	WGS84			AMG84 Zone 53		AHD	Isogal84
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mgal
2007.0202	-27° 30' 54.11665"	135° 21' 57.86903"	133.697	536024.672	6956293.166	126.574	979078.635
2007.0297	-27° 32' 07.94167"	135° 24' 26.15936"	119.482	540085.327	6954008.946	112.306	979088.920
5942.1053	-27° 32' 36.16688"	135° 26' 41.79189"	125.175	543802.399	6953127.685	117.940	

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series Geodetic receivers.

Measurements for post processed observations have been made using Static techniques with baselines processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Static baseline processing has been completed using Trimble GPSurvey version 2.30 software.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques including Post Processed Infill giving horizontal and vertical precisions of at least 5 cm.

RTK processing has been has been completed using Trimble TDC1 firmware and TRIMMAP version 6.50 software.

Gravity Observations

Gravity measurements have been made using *Scintrex CG3 Autograv* instruments. The instruments numbered 403244 and 601037 were used on this project.

Readings of 120 seconds were taken at base stations. Readings of 40 seconds were taken at all other gravity survey points. Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG3 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

For the Oodnadatta 2007 survey the lines are west-east on MGA94 and the 8 digits are constructed from the planned coordinates for each gravity station using:

Line No = (MGA N – 6900000) /10 Station No = (MGA E– 500000)/10

For example:

Planned gravity station coordinates

6826800.000N 558800.000E

Line No = 2680 Station No = 5880

That is, Pt No = 26805880

The original numbers for stations from earlier Haines Surveys Gravity Surveys repeated in the Oodnadatta 2007 Gravity Survey have been retained.

For the Mount Carulina survey the lines are south-north on AMG84 and the 8 digits are constructed from the planned coordinates for each gravity station using:

Line No = (AMG E – 500000) /10 Station No = (AMG N – 6900000)/10

For example:

Planned gravity station coordinates

535500.000E 6956100.000N

Line No = 3550 Station No = 5610

That is, Pt No = 35505610

The original numbers for stations from the 1995 WMC Gravity Survey repeated in the Mount Carulina Gravity Survey have been retained.

Station numbers have not been expanded in the processed data.

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by *Geoscience Australia*.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

$$\text{Drift} = [\,(t_1 - t_n)\,((b_2 - b_1)/(t_2 - t_1))\,]$$

t_n = time of meter reading at each station
b_1 = base meter reading prior to station reading
t_1 = time of base reading b_1
b_2 = base meter reading after station reading
t_2 = time of base reading b_2

Observed Gravity

This is the observed gravity value in milligals.

$$\text{Obs_g} = b_g + (r_n - \text{drift}) - b_1$$

b_g = base stn gravity value (Isogal84)
r_n = meter reading at each station as shown in the gravity meter log file
drift = residual drift correction as shown above
b_1 = base meter reading prior to station reading

Anomaly

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

$$Anom = Obs - g_{th}$$

Obs = observed gravity as explained above

$$g_{th} = 978031.8 \ (1 + 0.0053024 \sin^2\phi - 0.0000059 \sin^2 2\phi \ )$$

ϕ = WGS84 Latitude

Free Air Correction

The freeair correction is calculated using

$$Freeair = 0.3086 \ H$$

H = height above sea level (AHD height)

Bouguer Correction

$$Bouguer = -0.04191 \ \rho \ H$$

ρ = density (2.67 g/cc used for this survey)

H = height above sea level (AHD height)

Bouguer Anomaly

Bouguer Anom = Anom + Freeair + Bouguer

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. The results are also supplied in digital form on compact disk with the following of files being supplied.

Oodnadatta07.CSV MtCarulina.CSV REPEATS.REP

Oodnadatta07.CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

"Pt#"	Station identifiers used in data loggers, line and station numbers combined
"Line"	Station line number
"Stn"	Station number
"Date"	Date of observation
"Day"	GPS day number
"Time"	Time of observation
"GDA94_Lat"	GDA94 Latitude used in GPS observation
"GDA94_Long"	GDA94 Longitude used in GPS observation
"GDA94_Ht"	Height above the ellipsoid defined by the GDA94 Datum
"MGA94(ZONE53)E"	Easting value for observation on the MGA94/GDA94 Datum
"MGA94(ZONE53)N"	Northing value for observation on the MGA94/GDA94 Datum
"AHD_Ht"	Height of observation in the Australian Height Datum
"Meter_Ser_No"	Gravity meter serial number
"Meter_Rdg"	Gravity meter observation value in mGals
"Meter_Error"	Measurement of the quality of the gravity observation (a function of the SD of the observation set used and the duration of the set)
"ETC"	Earth Tide Correction applied to the gravity observation
"Drift"	The component of the meter drift between opening and closing gravity base observations applied to the observation
"Corr_Meter"	The meter observation with the drift applied
"dg"	The difference in gravity between the base and the observation
"Obs_g"	Observed gravity of the station
"Anom"	Difference between observed and theoretical gravity
"Freeair"	Free air correction (see above)
"Bouguer(2.67)"	Bouguer correction using a density of 2.67g/cc (see above)
"Bouguer_Anom"	Bouguer anomaly (see above)

MtCarulina.CSV Format

This is the same format as for Oodnadatt07.CSV with additional columns to accommodate the different horizontal datum used in the survey. Each record (line) contains the following data fields:

"Pt#" "Line" "Stn" "Date" "Day" "Time"	as per the above description
"WGS84_Lat"	WGS84 Latitude used in GPS observation
"WGS84_Long"	WGS84 Longitude used in GPS observation
"WGS84_Ht"	Height above the ellipsoid defined by the WGS84 Datum

Note that the WGS84 values are the AGD84/AMG84 values transformed using the Geoscience Australia recommended 7 Parameter Transformation (Higgins values). The WGS84 height is indistinguishable from the GDA94 height (using AusGeoid98).

"AMG84(ZONE53)E"	Easting value for observation on the AMG84/AGD84 Datum
"AMG84(ZONE53)N"	Northing value for observation on the AMG84/AGD84 Datum
"AHD_Ht"	Height of observation in the Australian Height Datum

"GDA94_Lat" GDA94 Latitude used in GPS observation
"GDA94_Long" GDA94 Longitude used in GPS observation
"MGA94(ZONE53)E" Easting value for observation on the MGA94/GDA94 Datum
"MGA94(ZONE53)N" Northing value for observation on the MGA94/GDA94 Datum

Note that the GDA94/MGA94 values are the AGD84/AMG84 values transformed using the Geoscience Australia recommended distortion grid transformation method and the best available distortion grid values from Geoscience Australia (National 84 (02.07.01).gsb).

"Meter_Ser_No" "Meter_Rdg" "Meter_Error" "ETC" "Drift" "Corr_Meter" "dg" "Obs_g" "Anom" "Freeair" "Bouguer(2.67)" "Bouguer_Anom" as above.

REPEATS.REP Format

This file contains the stations that were repeated for quality control purposes. The repeats are generally selected at random but it is usual that the last observation of the day is reobserved as the first observation the following day. Depending on access and the logistics within the project, repeat stations are also attempted on points surveyed during the middle of the previous day. Quite often, repeats are taken at locations which are readily accessible eg, stations near tracks and fencelines. The REPEATS.REP file has the following format: Essentially the original observation is listed with the repeat observation listed below then the difference between the two listed.

Pt #	Day	E	N	H	G	Bouguer
Pt #	*Day(original observation)*	*E*	*N*	*H*	*G*	*Bouguer*
Pt #	*Day(repeat observation)*	*E*	*N*	*H*	*G*	*Bouguer*
		Diff. E	*Diff. N*	*Diff H.*	*Diff. G*	*Diff. B.*

Field gravity observation files with the extension .DAT and .DC and GPS solution summary files with the extension .GPS are also supplied in a subdirectory named OBS.

*.DAT

These are the raw data files from the *Scintrex CG3* gravimeter. There is a separate file for each day's data for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G089 = day 89 (30th March).

*.DC

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

*.GPS

These are the GPS solution summaries for post processed Fast Static and Kinematic baselines. Each record (line) contains the following data fields:
Station, Solution Type, GPS Time, WGS84 Latitude, WGS84 Longitude, WGS84 Height, WGS84 dX, WGS84 dY, WGS84 dZ, Wgs84 dH, Baseline Distance, Solution Reference Variance, Solution RMSE, Rover Antenna Height, Baseline Standard Deviation , Solution Variance Ratio, Observation Count/Rejects, Observation Start time, Observation Finish time

PRODUCTION LOG

Oodnadatta - Mount Carulina Gravity Surveys Production Log

Date	GPS Day	Observed	Repeats	Comments	Crew
19-Mar-07	D078			Mobilise to Oodnadatta ex Wudinna	
20-Mar-07	D079	58	2	Commence Oodnadatta Grid (2 previous survey repeated obs)	2
21-Mar-07	D080	66	14	Continue Gravity Survey (10 previous survey repeated obs)	2
22-Mar-07	D081	84	4	Continue Gravity Survey	2
23-Mar-07	D082	79	6	Continue Gravity Survey (2 previous survey repeated obs)	2
24-Mar-07	D083	82	4	Continue Gravity Survey	2
25-Mar-07	D084	41	4	Continue Gravity Survey	2
26-Mar-07	D085	126	6	Continue Gravity Survey	2
27-Mar-07	D086	86	5	Continue Gravity Survey	2
28-Mar-07	D087			Standby - rain	2
29-Mar-07	D088			Standby - rain	2
30-Mar-07	D089	41	2	Continue Gravity Survey (1 Crew on standby)	1
31-Mar-07	D090	60	3	Continue Gravity Survey	2
01-Apr-07	D091	113	8	Continue Gravity Survey (2 previous survey repeated obs)	2
02-Apr-07	D092	91	4	Complete Oodnadatta Grid	2
03-Apr-07	D093	69	21	Commence Mt Carulina Grid (21 previous survey repeated obs)	2
04-Apr-07	D094	0	52	Compltete Mt Carulina (52 previous survey repeated obs)	2
05-Apr-07	D095	33	11	Commence, complete Infill for Oodnadatta Grid	2
06-Apr-07	D096			Depart Ooodnadatta for Adelaide	2
	Total	1029	146		

An extended Log with Field Crew comments is included below as a further appendix.

Repeat Observation Results

Pt	Day1	Day2	Diff E	Diff N	Diff Hgt	Diff g	Diff BAn	Vector	Abs Diff g	Abs Diff BAn
30805400	79	80	0.042	0.245	0.006	0.013	0.015	0.249	0.013	0.015
31605320	79	80	0.095	0.201	0.005	0.037	0.038	0.222	0.037	0.038
34805160	79	80	-0.861	-2.377	0.043	-0.005	0.002	2.528	0.005	0.002
34805240	79	80	0.518	0.571	0.058	-0.011	0.001	0.771	0.011	0.001
34805080	79	81	-0.581	0.270	-0.156	-0.016	-0.047	0.641	0.016	0.047
34005720	80	81	0.171	-0.304	0.015	-0.010	-0.007	0.349	0.010	0.007
34005960	80	81	0.099	0.111	0.012	-0.009	-0.007	0.149	0.009	0.007
36405160	80	81	0.219	0.051	0.016	-0.008	-0.005	0.225	0.008	0.005
33205880	80	82	0.221	-0.002	-0.010	0.030	0.028	0.221	0.030	0.028
38005240	81	82	0.249	-0.317	0.010	0.004	0.006	0.403	0.004	0.006
38006120	81	82	-0.345	0.102	-0.090	-0.017	-0.034	0.360	0.017	0.034
38805160	81	82	-0.304	0.345	0.017	0.002	0.006	0.460	0.002	0.006
31604920	79	83	0.035	0.078	-0.030	0.020	0.014	0.085	0.020	0.014
31605400	79	83	-0.146	-0.081	-0.014	0.005	0.003	0.167	0.005	0.003
30804920	82	83	0.553	-0.027	-0.012	-0.014	-0.017	0.554	0.014	0.017
30805000	82	83	1.649	-0.661	-0.054	0.007	-0.004	1.777	0.007	0.004
32405320	79	84	0.015	0.110	-0.014	-0.001	-0.004	0.111	0.001	0.004
34805800	79	84	0.351	0.531	-0.015	-0.002	-0.005	0.637	0.002	0.005
36006400	82	84	0.121	0.037	-0.084	0.014	-0.003	0.127	0.014	0.003
30006120	83	84	-0.428	0.026	0.026	0.032	0.037	0.429	0.032	0.037
26805400	83	85	-0.787	-0.064	0.019	0.019	0.022	0.790	0.019	0.022
26805800	83	85	-0.554	-0.393	0.018	-0.025	-0.022	0.679	0.025	0.022
29206120	83	85	-0.044	0.189	-0.054	-0.004	-0.015	0.194	0.004	0.015
31206080	84	85	0.259	0.302	-0.012	0.004	0.002	0.398	0.004	0.002
31206160	84	86	0.028	-0.375	-0.099	-0.015	-0.035	0.376	0.015	0.035
34806040	84	86	0.084	0.233	-0.099	-0.004	-0.024	0.248	0.004	0.024
25205240	85	86	-0.604	0.133	0.005	-0.018	-0.017	0.618	0.018	0.017
30406080	85	86	0.053	0.156	0.048	0.005	0.015	0.165	0.005	0.015
24406040	86	89	-0.318	0.227	-0.034	0.004	-0.003	0.391	0.004	0.003
24406120	86	89	-0.072	0.178	-0.087	0.022	0.005	0.192	0.022	0.005
24405160	85	90	0.174	-0.076	-0.016	-0.020	-0.024	0.190	0.020	0.024
25205240	85	90	-0.642	-0.044	-0.043	-0.034	-0.043	0.644	0.034	0.043
25206120	89	90	-0.436	-0.738	-0.025	0.011	0.005	0.857	0.011	0.005
21205880	89	91	-0.153	-0.144	0.029	-0.037	-0.031	0.210	0.037	0.031
21205960	89	91	-0.024	-0.108	-0.001	-0.039	-0.039	0.111	0.039	0.039
16005120	90	91	0.006	-0.215	0.053	0.005	0.016	0.215	0.005	0.016
16005440	90	91	-0.351	-0.254	0.061	0.009	0.021	0.433	0.009	0.021
27206640	90	91	-0.010	0.051	0.023	-0.041	-0.036	0.052	0.041	0.036
27206720	90	91	0.236	0.155	-0.009	-0.042	-0.044	0.282	0.042	0.044
09606320	91	92	0.313	0.377	0.042	-0.009	0.000	0.490	0.009	0.000
09606400	91	92	-0.068	-0.192	0.072	-0.009	0.005	0.204	0.009	0.005
09606800	91	92	0.100	0.160	-0.019	0.022	0.019	0.189	0.022	0.019
10406400	91	92	-0.232	-0.347	-0.030	0.029	0.023	0.417	0.029	0.023

Pt	Day1	Day2	Diff E	Diff N	Diff Hgt	Diff g	Diff BAn	Vector	Abs Diff g	Abs Diff BAn
31605320	79	95	-0.111	0.058	0.014	0.046	0.049	0.125	0.046	0.049
36405560	80	95	1.741	-2.461	-0.457	0.051	-0.041	3.015	0.051	0.041
35206560	84	95	0.067	0.059	0.167	0.023	0.056	0.089	0.023	0.056
34806600	86	95	-0.069	0.010	0.026	0.014	0.019	0.070	0.014	0.019
22004840	90	95	-0.020	0.164	0.192	0.008	0.046	0.165	0.008	0.046
22005080	90	95	0.001	0.006	0.092	0.066	0.084	0.006	0.066	0.084
22005240	90	95	-0.075	-0.263	0.168	0.046	0.079	0.273	0.046	0.079
22005320	90	95	0.090	-0.332	0.112	0.019	0.041	0.344	0.019	0.041
22005640	90	95	0.187	0.053	0.078	0.010	0.026	0.194	0.010	0.026
22005720	90	95	0.307	0.205	0.057	0.055	0.066	0.369	0.055	0.066

Mean	0.005	0.005	0.443	0.019	0.024
Min	-0.042	-0.047	0.006	0.001	0.000
Max	0.066	0.084	3.015	0.066	0.084
Count	53	53	53	53	53
SD	0.025	0.031	0.548	0.016	0.020

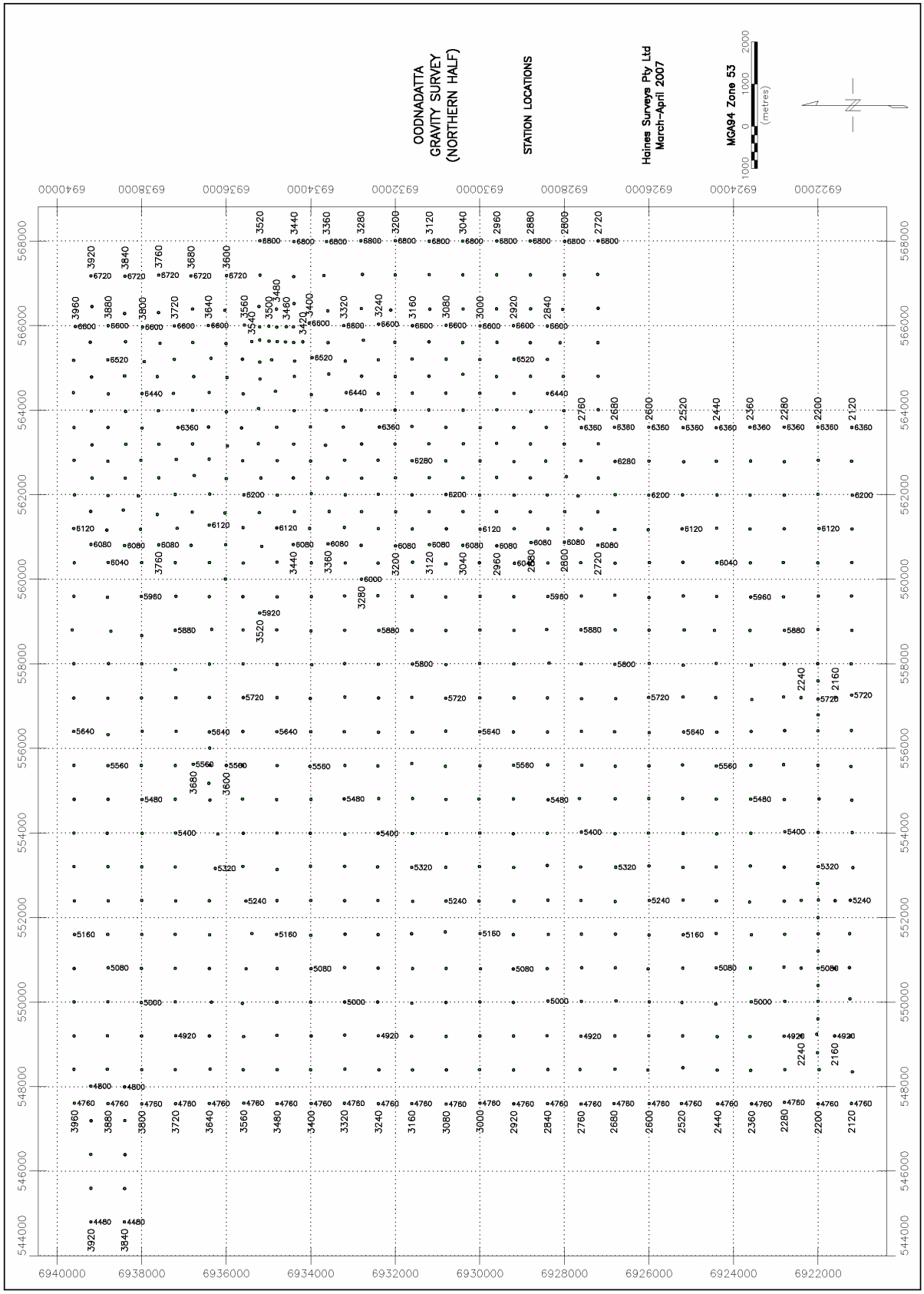
Previous Surveys Repeats Observations

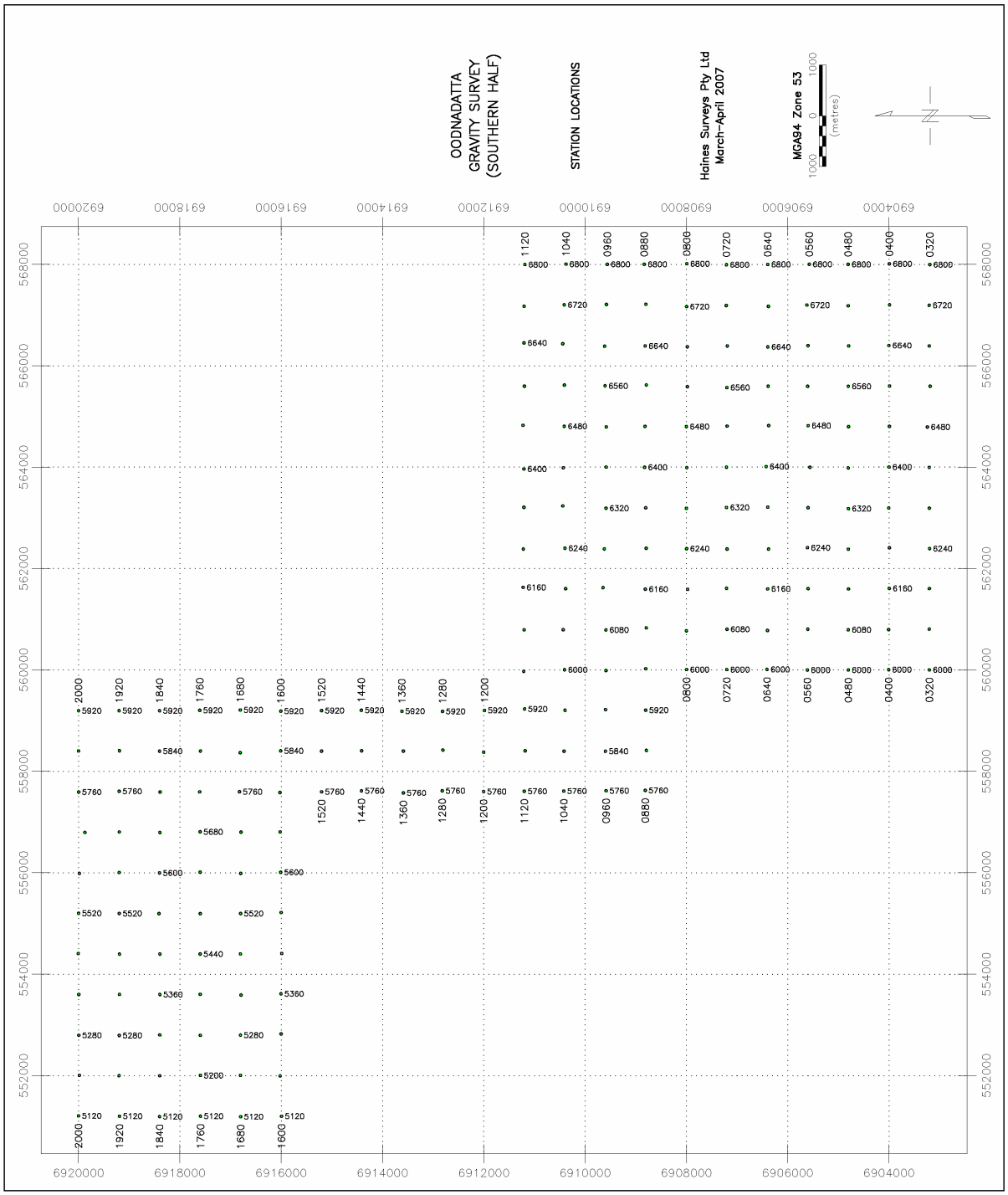
Pt	Day1	Day2	Diff E	Diff N	Diff Hgt	Diff g	Diff BAn	Vector	Abs Diff g	Abs Diff BAn
00225230	254	79	0.073	0.110	0.045	0.012	0.021	0.132	0.012	0.021
52403240	255	79	0.546	0.416	-0.050	0.029	0.020	0.686	0.029	0.020
31206000	242	80	-0.123	0.616	-0.031	0.026	0.021	0.628	0.026	0.021
32806000	243	80	0.581	-0.275	-0.132	-0.021	-0.047	0.643	0.021	0.047
33606000	243	80	0.093	-0.348	-0.095	0.009	-0.010	0.360	0.009	0.010
35205920	248	80	0.170	-0.855	0.045	-0.037	-0.028	0.872	0.037	0.028
36006000	248	80	0.910	-0.761	-0.041	-0.014	-0.023	1.186	0.014	0.023
00225000	252	80	-0.744	0.574	0.029	0.036	0.042	0.940	0.036	0.042
00225340	255	80	-0.945	0.648	0.018	0.007	0.011	1.146	0.007	0.011
52403320	255	80	0.116	0.421	-0.038	0.002	-0.005	0.437	0.002	0.005
52403400	255	80	-0.198	0.859	-0.014	-0.038	-0.040	0.882	0.038	0.040
52403640	255	80	0.759	0.551	0.059	0.029	0.041	0.938	0.029	0.041
38404880	249	82	0.221	-0.049	-0.052	-0.011	-0.021	0.226	0.011	0.021
39204880	249	82	-0.221	0.004	-0.022	0.021	0.017	0.221	0.021	0.017
00335320	256	85	0.020	0.371	-0.011	0.017	0.016	0.372	0.017	0.016
00335400	256	85	0.017	-0.443	-0.070	0.013	-0.001	0.443	0.013	0.001
00335040	256	86	-0.318	0.551	-0.050	0.000	-0.009	0.636	0.000	0.009
14406000	234	91	0.826	0.160	-0.031	-0.039	-0.045	0.841	0.039	0.045
15206000	239	91	0.451	-0.167	-0.080	-0.023	-0.039	0.481	0.023	0.039

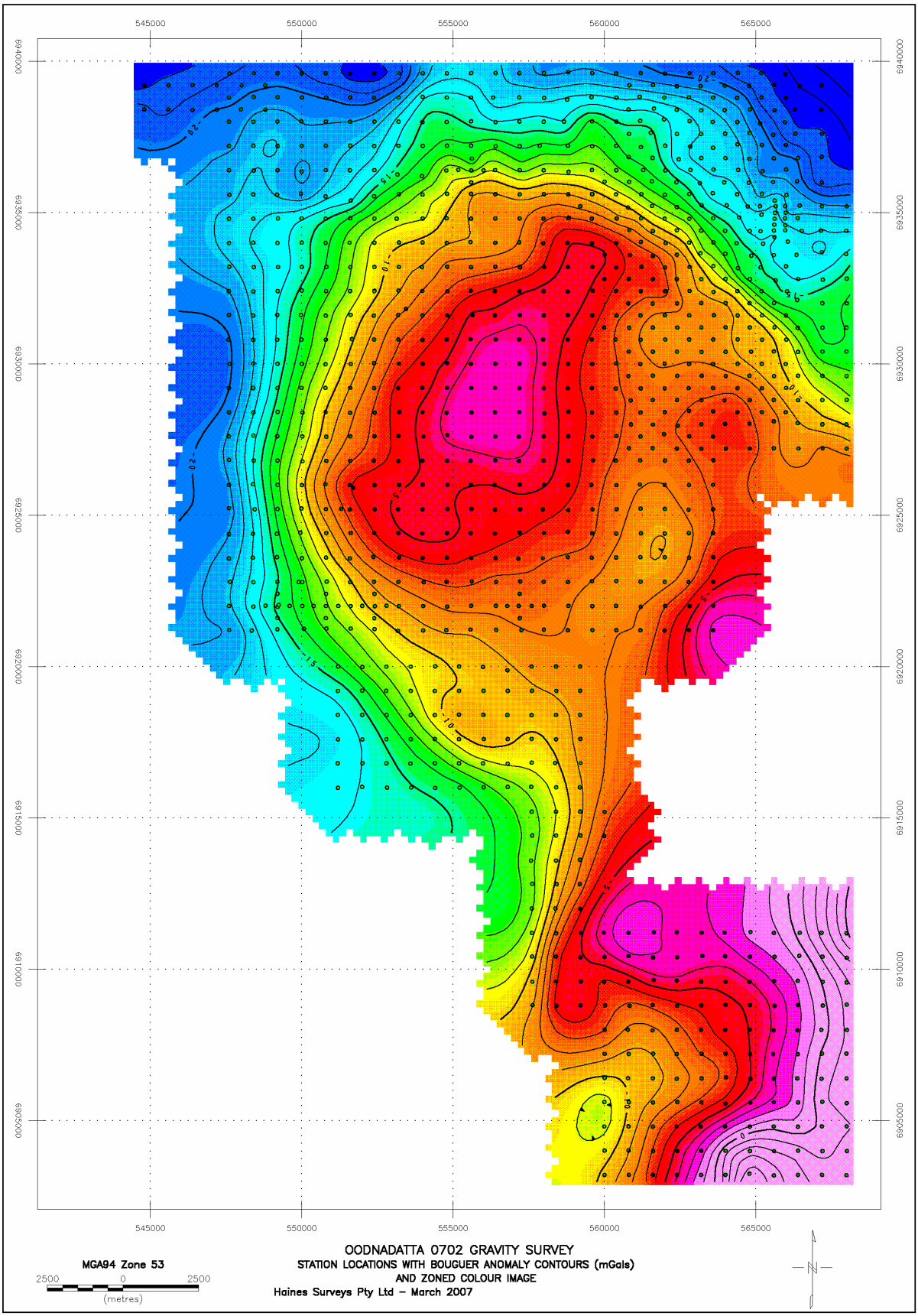
Mean	0.001	-0.004	0.635	0.020	0.024
Min	-0.039	-0.047	0.132	0.000	0.001
Max	0.036	0.042	1.186	0.039	0.047
Count	19	19	19	19	19
SD	0.024	0.028	0.312	0.012	0.014

Plots

Station Locations Oodnadatta 2007 North 15
Station Locations Oodnadatta 2007 South 16
Bouguer Anomaly Contours and Zoned Colour Image Oodnadatta 2007 17
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Bouguer Anomaly Contours and Zoned Colour Image Mount Carulina 19


OODNADATTA
GRAVITY SURVEY
(NORTHERN HALF)
STATION LOCATIONS
Haines Surveys Pty Ltd
March-April 2007
MGA94 Zone 53
2000
1000
0
1000
(metres)
N
6940000
6938000
6936000
6934000
6932000
6930000
6928000
6926000
6924000
6922000
544000
546000
548000
550000
552000
554000
556000
558000
560000
562000
564000
566000
568000


OODNADATTA
GRAVITY SURVEY
(SOUTHERN HALF)
STATION LOCATIONS
Haines Surveys Pty Ltd
March-April 2007
MGA94 Zone 53
1000
0
1000
(metres)
6920000
6918000
6916000
6914000
6912000
6910000
6908000
6906000
6904000
568000
566000
564000
562000
560000
558000
556000
554000
552000


545000
550000
555000
560000
565000
6940000
6935000
6930000
6925000
6920000
6915000
6910000
6905000
MGA94 Zone 53
2500 0 2500
(metres)
OODNADATTA 0702 GRAVITY SURVEY
STATION LOCATIONS WITH BOUGUER ANOMALY CONTOURS (mGals)
AND ZONED COLOUR IMAGE
Haines Surveys Pty Ltd – March 2007

Gravity Processing Results

Oodnadatta 2007

MGA94 ZONE 53 E	N	GRID Line	Stn	drift	corr'd meter	obs mgal	anom	freeair corrn	bouguer corrn (2.67)	bouguer anom	height (AHD)
D79											
553442.2	6931813.0	0	5102	+0.000	3541.412	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.412	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.088	3541.412	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.500	979122.441	-28.763	32.442	-11.764	-8.085	105.126
551658.4	6930817.2	3080	5160	-0.086	3542.101	979123.130	-28.748	29.204	-10.589	-10.134	94.633
552389.9	6930800.4	3080	5240	-0.084	3543.715	979124.744	-27.143	29.067	-10.540	-8.616	94.189
553188.1	6930805.6	3080	5320	-0.083	3545.217	979126.246	-25.635	29.070	-10.541	-7.107	94.198
553987.6	6930787.6	3080	5400	-0.081	3545.199	979126.228	-25.663	30.251	-10.969	-6.381	98.027
547599.4	6931609.9	3160	4760	-0.021	3531.616	979112.645	-38.712	29.941	-10.857	-19.628	97.023
548394.0	6931595.2	3160	4840	-0.020	3533.543	979114.572	-36.793	29.728	-10.780	-17.844	96.333
549191.1	6931614.5	3160	4920	-0.019	3535.612	979116.641	-34.709	29.523	-10.705	-15.891	95.667
549973.7	6931608.3	3160	5000	-0.018	3536.940	979117.969	-33.383	30.104	-10.916	-14.195	97.549
550793.6	6931590.3	3160	5080	-0.017	3538.439	979119.468	-31.893	30.525	-11.069	-12.437	98.916
551615.4	6931615.6	3160	5160	-0.016	3540.360	979121.389	-29.953	30.080	-10.907	-10.780	97.474
552382.2	6931589.3	3160	5240	-0.014	3541.816	979122.845	-28.513	29.986	-10.873	-9.400	97.168
553186.8	6931610.9	3160	5320	-0.012	3543.420	979124.449	-26.892	29.701	-10.770	-7.961	96.243
553988.6	6931596.3	3160	5400	-0.080	3543.163	979124.192	-27.156	31.528	-11.432	-7.060	102.165
554814.7	6931590.3	3160	5480	-0.073	3544.066	979125.095	-26.255	31.450	-11.404	-6.209	101.911
555641.9	6931610.9	3160	5560	-0.072	3546.101	979127.130	-24.203	30.417	-11.029	-4.816	98.565
556381.8	6931596.2	3160	5640	-0.070	3542.250	979123.279	-28.062	36.529	-13.246	-4.779	118.370
557207.5	6931609.0	3160	5720	-0.069	3544.872	979125.901	-25.429	33.424	-12.120	-4.125	108.307
557995.9	6931594.8	3160	5800	-0.067	3543.919	979124.948	-26.389	34.441	-12.489	-4.436	111.605
558789.4	6931606.3	3160	5880	-0.066	3545.366	979126.395	-24.932	31.729	-11.505	-4.708	102.815
559596.0	6931599.2	3160	5960	-0.065	3546.024	979127.053	-24.276	29.415	-10.666	-5.526	95.319
560402.1	6931591.7	3160	6040	-0.063	3542.524	979123.553	-27.778	32.820	-11.901	-6.859	106.352
547596.2	6932398.4	3240	4760	-0.023	3531.280	979112.309	-38.519	30.554	-11.079	-19.044	99.007
548399.3	6932386.8	3240	4840	-0.024	3532.971	979114.000	-36.833	30.235	-10.963	-17.561	97.976
549205.3	6932400.9	3240	4920	-0.026	3534.140	979115.169	-35.653	30.528	-11.070	-16.194	98.925
550001.3	6932418.1	3240	5000	-0.027	3534.982	979116.011	-34.797	31.417	-11.392	-14.772	101.804
550804.4	6932405.4	3240	5080	-0.028	3536.431	979117.460	-33.354	31.524	-11.431	-13.261	102.152
551596.0	6932405.2	3240	5160	-0.030	3538.125	979119.154	-31.658	31.144	-11.293	-11.807	100.919
552403.0	6932412.2	3240	5240	-0.031	3540.039	979121.068	-29.737	30.567	-11.084	-10.254	99.049
553198.2	6932419.3	3240	5320	-0.033	3539.956	979120.985	-29.813	32.488	-11.780	-9.105	105.276
553990.8	6932407.3	3240	5400	-0.034	3540.399	979121.428	-29.376	33.620	-12.191	-7.946	108.944
554814.0	6932393.7	3240	5480	-0.035	3541.970	979122.999	-27.811	32.660	-11.843	-6.994	105.833
555584.8	6932413.1	3240	5560	-0.043	3543.354	979124.383	-26.412	31.673	-11.485	-6.223	102.636
556381.0	6932397.8	3240	5640	-0.045	3541.174	979122.203	-28.600	35.748	-12.962	-5.814	115.840
557192.1	6932396.1	3240	5720	-0.047	3542.750	979123.779	-27.022	34.339	-12.451	-5.135	111.273
557990.4	6932398.3	3240	5800	-0.049	3543.963	979124.992	-25.805	33.037	-11.980	-4.747	107.056
558790.8	6932386.6	3240	5880	-0.050	3544.922	979125.951	-24.852	31.956	-11.587	-4.483	103.552
559610.7	6932413.9	3240	5960	-0.060	3543.598	979124.627	-26.155	32.964	-11.953	-5.144	106.817
560382.0	6932406.2	3240	6040	-0.062	3541.541	979122.570	-28.214	34.533	-12.522	-6.203	111.903
552398.0	6932394.8	5240	3240	-0.076	3539.996	979121.025	-29.792	30.529	-11.070	-10.333	98.927
D79											
553442.2	6931813.0	0	5102	+0.000	3978.542	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.542	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.058	3978.542	979122.441	-28.763	32.442	-11.764	-8.085	105.126
558826.2	6934824.9	22	5230	-0.046	3974.849	979118.748	-30.418	36.825	-13.353	-6.946	119.329
547600.2	6934794.0	3480	4760	-0.024	3965.596	979109.495	-39.725	34.751	-12.601	-17.574	112.610
548401.5	6934794.7	3480	4840	-0.022	3964.343	979108.242	-40.975	37.251	-13.508	-17.231	120.711
549212.5	6934801.3	3480	4920	-0.021	3965.609	979109.508	-39.702	36.215	-13.132	-16.619	117.351
549996.9	6934801.6	3480	5000	-0.019	3966.551	979110.450	-38.758	35.675	-12.936	-16.019	115.604
550793.0	6934796.6	3480	5080	-0.017	3967.933	979111.832	-37.377	35.061	-12.713	-15.030	113.612
551600.5	6934808.7	3480	5160	-0.016	3967.144	979111.043	-38.156	38.192	-13.849	-13.812	123.759
552400.6	6934799.9	3480	5240	-0.014	3967.916	979111.815	-37.387	39.041	-14.157	-12.503	126.511
553136.3	6934795.5	3480	5320	-0.012	3970.458	979114.357	-34.846	36.712	-13.312	-11.446	118.963
553996.8	6934798.6	3480	5400	-0.056	3967.314	979111.213	-37.986	41.968	-15.218	-11.235	135.996
554786.4	6934806.4	3480	5480	-0.054	3971.791	979115.690	-33.501	37.108	-13.455	-9.849	120.246
555593.0	6934794.1	3480	5560	-0.053	3973.712	979117.611	-31.586	35.623	-12.917	-8.880	115.433
556394.3	6934801.0	3480	5640	-0.051	3972.574	979116.473	-32.717	38.651	-14.015	-8.081	125.245
557199.1	6934799.0	3480	5720	-0.049	3967.606	979111.505	-37.684	46.234	-16.764	-8.215	149.817
557985.1	6934796.6	3480	5800	-0.048	3972.777	979116.676	-32.512	39.944	-14.484	-7.052	129.436
558802.8	6934804.3	3480	5880	-0.045	3974.465	979118.364	-30.816	37.438	-13.575	-6.953	121.314
547610.6	6935583.9	3560	4760	-0.026	3959.514	979103.413	-45.277	42.134	-15.278	-18.421	136.533
548399.4	6935597.7	3560	4840	-0.027	3963.608	979107.507	-41.171	37.042	-13.432	-17.561	120.033
549185.1	6935587.1	3560	4920	-0.029	3959.261	979103.160	-45.523	43.017	-15.598	-18.105	139.393
549971.3	6935618.4	3560	5000	-0.032	3953.443	979097.342	-51.318	51.080	-18.522	-18.760	165.521
550787.4	6935528.9	3560	5080	-0.034	3958.186	979102.085	-46.633	45.964	-16.667	-17.336	148.943
D80											
553442.2	6931813.0	0	5102	+0.000	3541.518	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.518	979122.441	-28.763	32.442	-11.764	-8.085	105.126

553442.2	6931813.0	0	5102	-0.042	3541.518	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.560	979122.441	-28.763	32.442	-11.764	-8.085	105.126
557212.4	6933210.1	22	5000	-0.014	3537.458	979118.381	-31.874	38.972	-14.131	-7.033	126.286
553987.6	6930787.3	3080	5400	-0.003	3545.292	979126.215	-25.676	30.249	-10.969	-6.396	98.021
554790.9	6930802.2	3080	5480	-0.003	3545.977	979126.900	-24.979	30.484	-11.053	-5.549	98.780
555576.3	6930815.8	3080	5560	-0.004	3547.748	979128.671	-23.196	29.657	-10.754	-4.293	96.103
556407.7	6930805.9	3080	5640	-0.005	3546.809	979127.732	-24.140	31.956	-11.587	-3.771	103.551
557185.6	6930807.7	3080	5720	-0.005	3545.830	979126.753	-25.115	33.414	-12.116	-3.817	108.275
557979.6	6930802.4	3080	5800	-0.006	3546.451	979127.374	-24.495	31.878	-11.559	-4.176	103.300
558787.3	6930803.7	3080	5880	-0.006	3545.458	979126.381	-25.484	31.755	-11.515	-5.244	102.901
559580.1	6930804.8	3080	5960	-0.007	3545.766	979126.689	-25.173	29.840	-10.820	-6.153	96.694
560364.1	6930803.9	3080	6040	-0.007	3544.918	979125.841	-26.019	29.709	-10.772	-7.083	96.269
559995.6	6931198.5	3120	6000	-0.008	3544.936	979125.859	-25.737	30.213	-10.955	-6.480	97.904
553186.7	6931610.7	3160	5320	-0.042	3543.489	979124.412	-26.929	29.699	-10.769	-7.999	96.238
559999.4	6932801.9	3280	6000	-0.010	3541.884	979122.807	-27.713	35.031	-12.703	-5.384	113.517
547606.9	6933205.2	3320	4760	-0.023	3531.035	979111.958	-38.328	31.592	-11.456	-18.191	102.373
548414.9	6933191.4	3320	4840	-0.022	3532.533	979113.456	-36.837	30.772	-11.158	-17.223	99.716
549218.4	6933196.3	3320	4920	-0.021	3531.837	979112.760	-37.528	32.888	-11.925	-16.565	106.571
550001.7	6933198.6	3320	5000	-0.021	3531.877	979112.800	-37.484	34.410	-12.477	-15.551	111.503
550815.8	6933200.5	3320	5080	-0.020	3534.681	979115.604	-34.676	32.493	-11.782	-13.966	105.291
551606.7	6933189.4	3320	5160	-0.020	3537.113	979118.036	-32.250	31.712	-11.499	-12.037	102.760
552399.6	6933198.1	3320	5240	-0.019	3538.254	979119.177	-31.100	32.259	-11.697	-10.539	104.532
553207.7	6933198.2	3320	5320	-0.018	3538.918	979119.841	-30.434	32.967	-11.954	-9.421	106.829
553973.4	6933191.3	3320	5400	-0.017	3536.153	979117.076	-33.201	37.980	-13.772	-8.993	123.071
554805.1	6933208.4	3320	5480	-0.016	3540.625	979121.548	-28.715	32.992	-11.963	-7.687	106.907
555596.2	6933192.7	3320	5560	-0.016	3540.369	979121.292	-28.980	33.622	-12.191	-7.549	108.949
556393.4	6933207.6	3320	5640	-0.015	3538.961	979119.884	-30.375	36.146	-13.107	-7.336	117.130
557214.3	6933194.0	3320	5720	-0.013	3537.516	979118.439	-31.827	38.987	-14.137	-6.976	126.335
558005.3	6933200.5	3320	5800	-0.013	3539.891	979120.814	-29.445	36.827	-13.354	-5.972	119.335
558791.6	6933198.7	3320	5880	-0.012	3543.665	979124.588	-25.669	32.858	-11.915	-4.726	106.476
559604.4	6933199.1	3320	5960	-0.011	3544.135	979125.058	-25.196	32.207	-11.678	-4.668	104.365
560383.6	6933182.6	3320	6040	-0.010	3540.787	979121.710	-28.553	35.925	-13.027	-5.654	116.413
560002.9	6933606.7	3360	6000	-0.039	3544.366	979125.289	-24.691	31.116	-11.283	-4.857	100.831
547600.9	6933989.8	3400	4760	-0.023	3530.021	979110.944	-38.815	33.227	-12.048	-17.637	107.670
548398.9	6934003.4	3400	4840	-0.024	3531.803	979112.726	-37.022	31.652	-11.477	-16.847	102.568
549199.1	6933992.1	3400	4920	-0.024	3530.233	979111.156	-38.598	34.737	-12.596	-16.457	112.562
549999.9	6934002.9	3400	5000	-0.025	3531.757	979112.680	-37.064	34.060	-12.350	-15.354	110.370
550790.7	6933993.7	3400	5080	-0.029	3533.339	979114.262	-35.486	33.266	-12.063	-14.282	107.798
551579.8	6934000.8	3400	5160	-0.030	3534.205	979115.128	-34.613	34.733	-12.594	-12.475	112.549
552401.0	6933999.7	3400	5240	-0.032	3536.509	979117.432	-32.307	33.901	-12.293	-10.699	109.853
553211.7	6934006.9	3400	5320	-0.032	3536.688	979117.611	-32.121	34.534	-12.522	-10.110	111.904
553992.4	6934010.9	3400	5400	-0.033	3536.173	979117.096	-32.631	35.959	-13.039	-9.711	116.524
554793.5	6933994.3	3400	5480	-0.034	3537.583	979118.506	-31.230	34.756	-12.603	-9.076	112.626
555574.4	6934019.0	3400	5560	-0.034	3537.203	979118.126	-31.591	35.411	-12.840	-9.020	114.747
556394.2	6933999.4	3400	5640	-0.035	3535.665	979116.588	-33.140	38.307	-13.890	-8.723	124.133
557181.4	6934011.3	3400	5720	-0.036	3534.504	979115.427	-34.290	41.204	-14.941	-8.027	133.520
557979.0	6933978.3	3400	5800	-0.037	3536.628	979117.551	-32.186	40.207	-14.579	-6.558	130.287
558776.2	6933994.5	3400	5880	-0.037	3542.179	979123.102	-26.621	33.834	-12.268	-5.056	109.638
559588.7	6933984.9	3400	5960	-0.038	3542.913	979123.836	-25.891	32.611	-11.825	-5.105	105.674
560388.3	6933986.8	3400	6040	-0.039	3542.047	979122.970	-26.753	32.457	-11.769	-6.065	105.176
552399.6	6933198.1	5240	3320	-0.018	3538.256	979119.179	-31.098	32.256	-11.696	-10.539	104.524
552401.0	6933999.7	5240	3400	-0.031	3536.509	979117.432	-32.307	33.898	-12.292	-10.701	109.846
D80											
553442.2	6931813.0	0	5102	+0.000	3978.570	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.570	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.060	3978.570	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.630	979122.441	-28.763	32.442	-11.764	-8.085	105.126
559605.0	6935600.1	22	5340	-0.026	3970.969	979114.840	-33.803	37.796	-13.705	-9.712	122.477
551601.3	6934811.1	3480	5160	-0.058	3967.177	979111.048	-38.149	38.179	-13.844	-13.814	123.716
552400.1	6934799.3	3480	5240	-0.005	3967.955	979111.826	-37.377	39.023	-14.150	-12.504	126.453
559201.9	6935205.7	3520	5920	-0.027	3973.258	979117.129	-31.780	36.892	-13.377	-8.266	119.546
551621.2	6935392.5	3560	5160	-0.008	3957.537	979101.408	-47.399	48.914	-17.737	-16.221	158.504
552390.4	6935534.4	3560	5240	-0.011	3963.844	979107.715	-40.995	41.991	-15.226	-14.230	136.070
553207.4	6935605.2	3560	5320	-0.013	3964.487	979108.358	-40.302	42.782	-15.513	-13.033	138.631
553991.6	6935594.1	3560	5400	-0.015	3965.985	979109.856	-38.809	42.641	-15.462	-11.629	138.177
554801.9	6935614.3	3560	5480	-0.017	3964.493	979108.364	-40.285	46.078	-16.708	-10.915	149.314
555595.7	6935613.9	3560	5560	-0.018	3972.122	979115.993	-32.654	37.002	-13.417	-9.068	119.904
556398.9	6935604.0	3560	5640	-0.019	3970.036	979113.907	-34.744	40.543	-14.701	-8.902	131.376
557202.5	6935595.9	3560	5720	-0.021	3966.049	979109.920	-38.734	45.919	-16.650	-9.465	148.798
558000.0	6935600.8	3560	5800	-0.022	3968.878	979112.749	-35.899	42.147	-15.283	-9.035	136.575
558799.6	6935599.8	3560	5880	-0.023	3972.122	979115.993	-32.653	37.204	-13.490	-8.940	120.557
559588.9	6935605.0	3560	5960	-0.025	3970.990	979114.861	-33.779	37.809	-13.710	-9.680	122.518
560383.6	6935596.0	3560	6040	-0.028	3971.932	979115.803	-32.840	34.818	-12.625	-10.648	112.825
560005.1	6936019.0	3600	6000	-0.031	3969.414	979113.285	-35.076	37.389	-13.557	-11.244	121.157
551589.7	6936394.6	3640	5160	-0.056	3953.659	979097.530	-50.605	52.192	-18.925	-17.338	169.126
552396.4	6936399.3	3640	5240	-0.054	3953.736	979097.607	-50.522	53.569	-19.424	-16.377	173.588
553160.3	6936256.8	3640	5320	-0.052	3959.773	979103.644	-44.579	47.085	-17.073	-14.567	152.575
553975.1	6936199.0	3640	5400	-0.050	3958.640	979102.511	-45.748	50.727	-18.394	-13.415	164.378
554776.5	6936384.8	3640	5480	-0.048	3966.982	979110.853	-37.279	40.478	-14.678	-11.478	131.168
555601.8	6936386.1	3640	5560	-0.046	3955.594	979099.465	-48.664	56.037	-20.319	-12.946	181.586
556388.0	6936399.7	3640	5640	-0.044	3965.466	979109.337	-38.780	43.476	-15.765	-11.068	140.883
557203.7	6936397.2	3640	5720	-0.042	3955.973	979099.844	-48.272	56.275	-20.406	-12.403	182.357
557993.4	6936394.2	3640	5800	-0.039	3962.991	979106.862	-41.254	47.040	-17.057	-11.271	152.431

558815.2	6936342.6	3640	5880	-0.037	3963.648	979107.519	-40.629	45.984	-16.674	-11.318	149.010
559588.8	6936400.4	3640	5960	-0.036	3967.774	979111.645	-36.461	39.128	-14.188	-11.522	126.791
560393.1	6936396.2	3640	6040	-0.035	3967.750	979111.621	-36.486	37.196	-13.487	-12.777	120.532
552401.1	6936398.7	5240	3640	-0.055	3953.760	979097.631	-50.499	53.550	-19.418	-16.366	173.526
D81											
553442.2	6931813.0	0	5102	+0.000	3541.619	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.619	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.046	3541.619	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.665	979122.441	-28.763	32.442	-11.764	-8.085	105.126
557181.3	6934011.6	3400	5720	-0.003	3534.615	979115.437	-34.280	41.200	-14.939	-8.020	133.505
559588.6	6933984.8	3400	5960	-0.044	3543.023	979123.845	-25.882	32.607	-11.824	-5.098	105.662
561181.0	6938025.9	3800	6120	-0.034	3528.463	979109.285	-37.726	35.540	-12.887	-15.073	115.164
561968.3	6938077.1	3800	6200	-0.035	3527.710	979108.532	-38.442	35.501	-12.873	-15.814	115.038
562810.7	6938017.4	3800	6280	-0.037	3525.946	979106.768	-40.243	36.734	-13.320	-16.829	119.034
563575.6	6937990.9	3800	6360	-0.038	3524.112	979104.934	-42.092	38.496	-13.959	-17.555	124.744
564390.4	6937989.9	3800	6440	-0.038	3520.531	979101.353	-45.671	42.349	-15.356	-18.678	137.230
565145.9	6937938.0	3800	6520	-0.039	3515.910	979096.732	-50.324	47.466	-17.211	-20.070	153.810
565964.5	6937977.7	3800	6600	-0.040	3512.063	979092.885	-54.142	51.139	-18.543	-21.546	165.714
560796.9	6938403.6	3840	6080	-0.034	3525.202	979106.024	-40.735	38.460	-13.946	-16.221	124.628
561636.9	6938433.3	3840	6160	-0.033	3526.698	979107.520	-39.216	36.093	-13.087	-16.211	116.956
562389.8	6938390.0	3840	6240	-0.032	3525.975	979106.797	-39.966	36.252	-13.145	-16.859	117.472
563193.2	6938373.1	3840	6320	-0.031	3524.546	979105.368	-41.403	37.333	-13.537	-17.607	120.976
563968.0	6938381.1	3840	6400	-0.030	3522.745	979103.567	-43.196	38.860	-14.091	-18.427	125.923
564807.8	6938403.6	3840	6480	-0.026	3520.188	979101.010	-45.735	41.206	-14.942	-19.470	133.527
565617.4	6938381.3	3840	6560	-0.026	3512.232	979093.054	-53.703	50.435	-18.288	-21.556	163.432
566284.8	6938402.1	3840	6640	-0.025	3512.457	979093.279	-53.462	48.837	-17.708	-22.333	158.253
567166.2	6938394.3	3840	6720	-0.024	3514.893	979095.715	-51.028	44.324	-16.072	-22.776	143.628
561162.4	6938825.2	3880	6120	-0.019	3525.092	979105.914	-40.561	36.731	-13.319	-17.149	119.025
561979.6	6938795.7	3880	6200	-0.019	3524.753	979105.575	-40.917	36.542	-13.250	-17.625	118.412
562790.2	6938798.4	3880	6280	-0.020	3523.920	979104.742	-41.746	37.191	-13.485	-18.040	120.514
563590.6	6938795.6	3880	6360	-0.020	3522.653	979103.475	-43.012	38.120	-13.822	-18.714	123.524
564382.2	6938787.4	3880	6440	-0.021	3521.115	979101.937	-44.552	39.477	-14.314	-19.390	127.922
565190.7	6938801.1	3880	6520	-0.022	3511.666	979092.488	-53.989	50.837	-18.434	-21.586	164.733
565995.8	6938790.4	3880	6600	-0.023	3513.170	979093.992	-52.489	47.564	-17.247	-22.173	154.127
560822.9	6939199.7	3920	6080	-0.018	3522.311	979103.133	-43.092	38.852	-14.088	-18.328	125.897
561602.8	6939207.1	3920	6160	-0.017	3522.694	979103.516	-42.702	37.654	-13.654	-18.701	122.016
562393.7	6939173.0	3920	6240	-0.017	3521.737	979102.559	-43.679	38.745	-14.049	-18.983	125.552
563176.4	6939173.6	3920	6320	-0.016	3522.004	979102.826	-43.409	37.915	-13.748	-19.242	122.860
563973.0	6939190.1	3920	6400	-0.016	3519.990	979100.812	-45.409	40.067	-14.528	-19.870	129.835
564781.2	6939185.8	3920	6480	-0.015	3517.640	979098.462	-47.759	42.166	-15.290	-20.882	136.637
565605.4	6939215.8	3920	6560	-0.014	3514.237	979095.059	-51.139	45.661	-16.557	-22.034	147.963
566447.4	6939174.0	3920	6640	-0.013	3511.169	979091.991	-54.232	48.901	-17.732	-23.062	158.462
567175.9	6939199.3	3920	6720	-0.012	3512.657	979093.479	-52.724	46.029	-16.690	-23.386	149.154
561199.8	6939606.0	3960	6120	-0.006	3521.229	979102.051	-43.901	38.004	-13.780	-19.677	123.149
561995.7	6939588.7	3960	6200	-0.007	3520.224	979101.046	-44.915	38.901	-14.106	-20.119	126.058
562813.8	6939598.2	3960	6280	-0.008	3518.316	979099.138	-46.813	41.228	-14.949	-20.535	133.597
563588.3	6939600.6	3960	6360	-0.009	3519.625	979100.447	-45.500	39.224	-14.223	-20.499	127.103
564412.3	6939613.7	3960	6440	-0.010	3514.691	979095.513	-50.422	45.190	-16.386	-21.618	146.436
565177.0	6939609.5	3960	6520	-0.011	3516.258	979097.080	-48.855	42.336	-15.351	-21.871	137.186
565977.7	6939566.7	3960	6600	-0.011	3512.794	979093.616	-52.345	46.433	-16.837	-22.749	150.465
D81											
553442.2	6931813.0	0	5102	+0.000	3978.592	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.592	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.083	3978.592	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.675	979122.441	-28.763	32.442	-11.764	-8.085	105.126
550793.6	6934796.3	3480	5080	-0.081	3967.999	979111.848	-37.361	35.109	-12.731	-14.983	113.768
547601.3	6936397.1	3640	4760	-0.014	3957.691	979101.540	-46.604	44.247	-16.044	-18.401	143.381
548414.8	6936380.3	3640	4840	-0.012	3960.728	979104.577	-43.576	40.163	-14.563	-17.976	130.146
549199.4	6936397.7	3640	4920	-0.010	3959.495	979103.344	-44.795	41.664	-15.107	-18.239	135.009
549998.5	6936349.0	3640	5000	-0.009	3951.281	979095.130	-53.040	53.046	-19.235	-19.228	171.893
550794.1	6936398.3	3640	5080	-0.008	3953.732	979097.581	-50.554	50.588	-18.343	-18.309	163.928
551589.5	6936394.5	3640	5160	-0.006	3953.689	979097.538	-50.597	52.187	-18.923	-17.333	169.110
547596.7	6937197.8	3720	4760	-0.017	3951.558	979095.407	-52.200	51.569	-18.699	-19.330	167.106
548401.2	6937206.1	3720	4840	-0.018	3958.127	979101.976	-45.623	43.002	-15.593	-18.214	139.346
549204.3	6937195.3	3720	4920	-0.020	3960.185	979104.034	-43.570	40.318	-14.619	-17.872	130.647
550004.8	6937203.3	3720	5000	-0.023	3953.652	979097.501	-50.096	49.311	-17.880	-18.665	159.789
550797.0	6937206.9	3720	5080	-0.024	3954.426	979098.275	-49.317	48.414	-17.555	-18.458	156.884
551602.2	6937208.1	3720	5160	-0.025	3952.950	979096.799	-50.790	51.338	-18.615	-18.068	166.358
552393.3	6937194.2	3720	5240	-0.027	3953.383	979097.232	-50.364	51.894	-18.817	-17.287	168.158
553195.4	6937203.0	3720	5320	-0.028	3955.902	979099.751	-47.837	50.266	-18.227	-15.798	162.883
553999.1	6937197.9	3720	5400	-0.029	3959.191	979103.040	-44.549	47.071	-17.068	-14.546	152.531
554796.7	6937206.6	3720	5480	-0.030	3961.385	979105.234	-42.347	45.060	-16.339	-13.626	146.015
555595.9	6937204.1	3720	5560	-0.033	3958.172	979102.021	-45.559	49.782	-18.051	-13.828	161.317
556404.9	6937184.5	3720	5640	-0.034	3961.906	979105.755	-41.836	45.061	-16.339	-13.114	146.017
557197.0	6937191.3	3720	5720	-0.036	3952.469	979096.318	-51.266	58.124	-21.076	-14.218	188.346
557865.2	6937202.7	3720	5800	-0.037	3953.893	979097.742	-49.832	56.662	-20.546	-13.716	183.611
558794.3	6937205.2	3720	5880	-0.040	3952.565	979096.414	-51.155	58.327	-21.149	-13.978	189.004
559595.5	6937190.3	3720	5960	-0.042	3964.368	979108.217	-39.360	41.575	-15.075	-12.860	134.720
560392.1	6937203.3	3720	6040	-0.044	3966.091	979109.940	-37.625	37.209	-13.492	-13.909	120.573
547593.2	6937996.2	3800	4760	-0.071	3951.324	979095.173	-51.899	50.248	-18.220	-19.871	162.826
548402.7	6937995.0	3800	4840	-0.070	3957.740	979101.589	-45.481	42.090	-15.262	-18.653	136.390
549196.6	6938003.0	3800	4920	-0.069	3958.111	979101.960	-45.103	41.737	-15.134	-18.500	135.247
549989.0	6938009.2	3800	5000	-0.068	3954.582	979098.431	-48.625	46.359	-16.810	-19.077	150.223

550795.6	6938005.0	3800	5080	-0.067	3954.743	979098.592	-48.465	46.127	-16.726	-19.064	149.471
551598.5	6937995.3	3800	5160	-0.066	3953.889	979097.738	-49.323	47.509	-17.227	-19.041	153.950
552404.9	6937999.3	3800	5240	-0.064	3954.646	979098.495	-48.561	47.328	-17.161	-18.395	153.362
553198.8	6937997.2	3800	5320	-0.063	3957.002	979100.851	-46.204	46.457	-16.845	-16.593	150.541
553990.7	6937989.8	3800	5400	-0.060	3959.150	979102.999	-44.059	45.778	-16.599	-14.881	148.340
554790.1	6937991.5	3800	5480	-0.059	3958.321	979102.170	-44.884	47.269	-17.140	-14.755	153.173
555597.5	6938007.8	3800	5560	-0.058	3955.152	979099.001	-48.040	51.253	-18.584	-15.372	166.081
556403.8	6937985.9	3800	5640	-0.057	3951.503	979095.352	-51.701	55.995	-20.304	-16.010	181.450
557192.6	6938004.4	3800	5720	-0.056	3952.059	979095.908	-51.130	55.368	-20.077	-15.839	179.417
557996.3	6937996.9	3800	5800	-0.054	3951.521	979095.370	-51.671	56.693	-20.557	-15.535	183.711
558668.5	6937998.6	3800	5880	-0.053	3949.922	979093.771	-53.267	58.450	-21.194	-16.011	189.403
559591.7	6938008.5	3800	5960	-0.050	3963.925	979107.774	-39.254	40.088	-14.536	-13.702	129.904
560393.4	6938000.1	3800	6040	-0.049	3963.701	979107.550	-39.481	38.379	-13.916	-15.019	124.364
547599.6	6938794.9	3880	4760	-0.072	3951.728	979095.577	-50.959	48.107	-17.444	-20.296	155.887
548410.7	6938812.8	3880	4840	-0.073	3953.952	979097.801	-48.721	45.356	-16.446	-19.811	146.974
549202.8	6938808.6	3880	4920	-0.074	3954.671	979098.520	-48.003	44.707	-16.211	-19.507	144.870
550008.6	6938798.7	3880	5000	-0.075	3953.920	979097.769	-48.758	45.521	-16.506	-19.743	147.509
550812.0	6938792.6	3880	5080	-0.076	3953.559	979097.408	-49.121	45.515	-16.504	-20.110	147.489
551601.1	6938802.9	3880	5160	-0.077	3952.728	979096.577	-49.943	46.049	-16.698	-20.591	149.220
D82											
553442.2	6931813.0	0	5102	+0.000	3541.673	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.673	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.018	3541.673	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.691	979122.441	-28.763	32.442	-11.764	-8.085	105.126
558791.4	6933198.7	3320	5880	-0.017	3543.790	979124.558	-25.699	32.862	-11.916	-4.754	106.486
560816.1	6936010.1	3600	6080	-0.014	3533.083	979113.851	-34.513	34.579	-12.539	-12.473	112.052
561565.0	6936029.7	3600	6160	-0.015	3530.740	979111.508	-36.840	36.294	-13.160	-13.707	117.607
562380.1	6935998.0	3600	6240	-0.015	3529.195	979109.963	-38.404	37.082	-13.446	-14.768	120.161
563149.7	6935972.2	3600	6320	-0.015	3524.083	979104.851	-43.531	43.225	-15.674	-15.979	140.069
563958.3	6935994.4	3600	6400	-0.016	3524.372	979105.140	-43.224	41.592	-15.081	-16.714	134.775
564770.3	6935980.9	3600	6480	-0.016	3520.599	979101.367	-47.003	45.858	-16.628	-17.773	148.600
561282.0	6936399.9	3640	6120	-0.013	3531.984	979112.752	-35.349	33.817	-12.262	-13.794	109.583
562014.2	6936390.0	3640	6200	-0.013	3528.865	979109.633	-38.472	37.097	-13.452	-14.827	120.212
562840.4	6936404.6	3640	6280	-0.013	3524.379	979105.147	-42.946	41.846	-15.174	-16.273	135.600
563600.4	6936417.7	3640	6360	-0.013	3522.262	979103.030	-45.051	43.462	-15.759	-17.349	140.835
564418.0	6936405.2	3640	6440	-0.013	3522.445	979103.213	-44.874	42.588	-15.442	-17.728	138.003
565224.0	6936359.9	3640	6520	-0.012	3515.003	979095.771	-52.343	51.675	-18.738	-19.406	167.450
566001.3	6936423.0	3640	6600	-0.012	3521.319	979102.087	-45.982	41.936	-15.206	-19.252	135.892
560801.6	6936831.7	3680	6080	-0.007	3529.762	979110.530	-37.283	36.356	-13.183	-14.110	117.811
561589.3	6936802.0	3680	6160	-0.007	3530.627	979111.395	-36.435	34.330	-12.448	-14.553	111.245
562454.0	6936755.7	3680	6240	-0.008	3521.865	979102.633	-45.225	44.641	-16.187	-16.771	144.657
563200.0	6936797.1	3680	6320	-0.008	3522.928	979103.696	-44.132	42.100	-15.266	-17.298	136.424
563994.7	6936796.1	3680	6400	-0.008	3524.543	979105.311	-42.515	39.425	-14.296	-17.386	127.753
564790.7	6936768.9	3680	6480	-0.009	3521.842	979102.610	-45.231	42.310	-15.342	-18.263	137.103
565597.7	6936791.2	3680	6560	-0.009	3514.239	979095.007	-52.817	51.625	-18.719	-19.911	167.287
566389.9	6936796.4	3680	6640	-0.009	3521.058	979101.826	-45.991	40.921	-14.838	-19.908	132.602
567174.8	6936833.3	3680	6720	-0.010	3516.277	979097.045	-50.744	45.530	-16.509	-21.724	147.538
561206.7	6937159.4	3720	6120	-0.007	3529.931	979110.699	-36.893	35.109	-12.731	-14.514	113.770
562005.5	6937206.1	3720	6200	-0.007	3528.261	979109.029	-38.529	36.132	-13.102	-15.498	117.085
562833.6	6937180.4	3720	6280	-0.006	3524.505	979105.273	-42.299	39.644	-14.375	-17.031	128.463
563587.6	6937139.5	3720	6360	-0.006	3523.516	979104.284	-43.313	40.694	-14.756	-17.375	131.868
564394.1	6937249.3	3720	6440	-0.006	3523.187	979103.955	-43.566	40.365	-14.637	-17.837	130.802
565200.9	6937229.1	3720	6520	-0.006	3518.956	979099.724	-47.807	44.880	-16.274	-19.201	145.432
565990.7	6937225.4	3720	6600	-0.005	3513.606	979094.374	-53.157	50.751	-18.402	-20.809	164.455
560813.5	6937597.0	3760	6080	-0.002	3528.630	979109.398	-37.902	36.229	-13.137	-14.810	117.398
561532.3	6937628.9	3760	6160	-0.002	3529.421	979110.189	-37.087	35.010	-12.695	-14.771	113.449
562397.5	6937594.2	3760	6240	-0.003	3526.555	979107.323	-39.973	37.080	-13.445	-16.339	120.156
563193.0	6937593.5	3760	6320	-0.003	3525.226	979105.994	-41.300	38.126	-13.825	-16.999	123.546
563986.1	6937603.4	3760	6400	-0.003	3524.214	979104.982	-42.303	38.806	-14.071	-17.568	125.747
564793.0	6937628.4	3760	6480	-0.003	3519.832	979100.600	-46.665	43.514	-15.778	-18.929	141.004
565580.0	6937565.7	3760	6560	-0.003	3513.831	979094.599	-52.705	50.487	-18.307	-20.525	163.601
566307.1	6937602.0	3760	6640	-0.004	3510.643	979091.411	-55.866	53.342	-19.342	-21.866	172.851
567192.5	6937597.9	3760	6720	-0.004	3518.237	979099.005	-48.272	41.524	-15.057	-21.805	134.555
561181.3	6938025.8	3800	6120	-0.001	3528.534	979109.302	-37.709	35.567	-12.897	-15.039	115.254
D82											
553442.2	6931813.0	0	5102	+0.000	3978.638	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.638	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.060	3978.638	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.100	3978.698	979122.441	-28.763	32.442	-11.764	-8.085	105.126
549188.3	6930797.6	3080	4920	-0.058	3973.642	979117.445	-34.453	29.121	-10.559	-15.892	94.364
549991.2	6930801.2	3080	5000	-0.058	3975.832	979119.635	-32.259	28.842	-10.458	-13.875	93.461
550795.4	6930798.7	3080	5080	-0.057	3977.213	979121.016	-30.877	29.464	-10.684	-12.097	95.476
552404.7	6937999.7	3800	5240	-0.052	3954.688	979098.491	-48.565	47.324	-17.160	-18.401	153.352
544799.6	6938407.6	3840	4480	-0.015	3954.525	979098.328	-48.475	43.308	-15.704	-20.871	140.337
545590.6	6938404.2	3840	4560	-0.014	3950.386	979094.189	-52.614	49.262	-17.863	-21.215	159.632
546391.6	6938394.6	3840	4640	-0.013	3955.127	979098.930	-47.878	43.068	-15.616	-20.427	139.558
547197.2	6938397.3	3840	4720	-0.012	3954.768	979098.571	-48.233	44.435	-16.112	-19.910	143.988
547994.6	6938403.0	3840	4800	-0.011	3952.674	979096.477	-50.321	48.032	-17.417	-19.706	155.644
548800.6	6938396.6	3840	4880	-0.010	3956.530	979100.333	-46.467	43.080	-15.621	-19.008	139.599
551601.4	6938802.6	3880	5160	-0.008	3952.772	979096.575	-49.945	46.044	-16.696	-20.597	149.203
552394.1	6938790.8	3880	5240	-0.051	3954.124	979097.927	-48.599	44.225	-16.036	-20.409	143.310
553202.1	6938796.3	3880	5320	-0.051	3955.064	979098.867	-47.653	45.357	-16.447	-18.742	146.977
553993.5	6938816.0	3880	5400	-0.050	3959.075	979102.878	-43.626	43.290	-15.697	-16.033	140.280

554793.7	6938795.8	3880	5480	-0.049	3957.446	979101.249	-45.266	46.399	-16.825	-15.692	150.354
555591.7	6938796.2	3880	5560	-0.048	3957.092	979100.895	-45.617	46.630	-16.908	-15.896	151.101
556323.9	6938795.0	3880	5640	-0.047	3949.723	979093.526	-52.985	55.627	-20.170	-17.529	180.255
557185.8	6938799.7	3880	5720	-0.046	3953.144	979096.947	-49.558	50.666	-18.372	-17.264	164.181
558005.9	6938783.7	3880	5800	-0.045	3951.665	979095.468	-51.045	52.916	-19.187	-17.317	171.470
558768.1	6938727.9	3880	5880	-0.044	3956.846	979100.649	-45.899	45.724	-16.580	-16.755	148.167
559574.1	6938807.4	3880	5960	-0.042	3957.948	979101.751	-44.741	43.901	-15.919	-16.759	142.257
560397.5	6938792.3	3880	6040	-0.040	3960.320	979104.123	-42.377	39.608	-14.362	-17.131	128.348
544801.3	6939199.9	3920	4480	-0.016	3950.434	979094.237	-52.035	46.896	-17.005	-22.143	151.963
545597.5	6939199.5	3920	4560	-0.018	3952.097	979095.900	-50.370	45.015	-16.323	-21.678	145.868
546396.8	6939205.0	3920	4640	-0.019	3952.111	979095.914	-50.350	45.331	-16.437	-21.456	146.893
547193.7	6939195.9	3920	4720	-0.020	3952.760	979096.563	-49.705	45.251	-16.408	-20.863	146.632
548012.5	6939203.4	3920	4800	-0.020	3952.865	979096.668	-49.593	45.947	-16.661	-20.307	148.889
548796.7	6939201.4	3920	4880	-0.021	3953.739	979097.542	-48.718	44.849	-16.262	-20.132	145.329
547609.8	6939589.7	3960	4760	-0.022	3952.708	979096.511	-49.492	44.505	-16.138	-21.125	144.216
548409.4	6939601.0	3960	4840	-0.023	3953.587	979097.390	-48.604	43.981	-15.948	-20.570	142.519
549197.8	6939599.0	3960	4920	-0.024	3954.066	979097.869	-48.124	43.404	-15.738	-20.458	140.648
550003.3	6939598.4	3960	5000	-0.024	3953.786	979097.589	-48.402	43.071	-15.618	-20.948	139.570
550792.2	6939596.8	3960	5080	-0.025	3951.915	979095.718	-50.272	44.537	-16.149	-21.884	144.320
551597.9	6939588.2	3960	5160	-0.026	3952.444	979096.247	-49.746	42.559	-15.432	-22.619	137.911
552393.0	6939591.4	3960	5240	-0.027	3952.563	979096.366	-49.623	42.346	-15.355	-22.632	137.221
553203.0	6939600.2	3960	5320	-0.028	3952.522	979096.325	-49.656	43.912	-15.923	-21.667	142.293
553996.7	6939600.1	3960	5400	-0.029	3957.016	979100.819	-45.159	41.526	-15.057	-18.691	134.562
554795.5	6939596.7	3960	5480	-0.030	3957.070	979100.873	-45.105	43.510	-15.777	-17.372	140.990
555598.4	6939604.2	3960	5560	-0.030	3955.355	979099.158	-46.813	46.014	-16.685	-17.483	149.107
556402.6	6939605.8	3960	5640	-0.032	3955.423	979099.226	-46.741	45.465	-16.486	-17.762	147.327
557189.7	6939605.4	3960	5720	-0.033	3952.572	979096.375	-49.590	48.492	-17.583	-18.682	157.135
558002.2	6939604.8	3960	5800	-0.034	3948.861	979092.664	-53.299	53.380	-19.356	-19.275	172.974
558798.7	6939643.1	3960	5880	-0.035	3952.030	979095.833	-50.102	48.716	-17.665	-19.050	157.861
559597.2	6939603.2	3960	5960	-0.036	3952.539	979096.342	-49.617	48.302	-17.514	-18.829	156.519
560389.9	6939592.5	3960	6040	-0.037	3957.523	979101.326	-44.637	39.879	-14.460	-19.218	129.227
D83											
553442.2	6931813.0	0	5102	+0.000	3541.742	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.742	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.052	3541.742	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.794	979122.441	-28.763	32.442	-11.764	-8.085	105.126
550811.9	6926793.4	2680	5080	-0.041	3547.285	979127.984	-26.600	28.386	-10.293	-8.507	91.982
551607.4	6926792.8	2680	5160	-0.041	3547.799	979128.498	-26.084	29.819	-10.813	-7.078	96.627
552377.2	6926797.3	2680	5240	-0.042	3547.548	979128.247	-26.330	31.166	-11.301	-6.465	100.990
553189.9	6926785.5	2680	5320	-0.043	3548.522	979129.221	-25.362	30.867	-11.192	-5.687	100.022
553982.8	6926800.0	2680	5400	-0.043	3550.342	979131.041	-23.530	29.192	-10.585	-4.923	94.595
554807.2	6926798.9	2680	5480	-0.044	3550.982	979131.681	-22.888	28.852	-10.462	-4.498	93.493
555577.2	6926797.0	2680	5560	-0.045	3551.341	979132.040	-22.528	28.375	-10.289	-4.442	91.948
556392.9	6926812.7	2680	5640	-0.046	3553.069	979133.768	-20.787	26.211	-9.504	-4.080	84.935
557176.4	6926785.6	2680	5720	-0.046	3553.647	979134.346	-20.224	25.361	-9.196	-4.059	82.182
557988.3	6926803.7	2680	5800	-0.048	3552.732	979133.431	-21.125	25.920	-9.399	-4.603	83.993
547590.1	6927605.2	2760	4760	-0.015	3537.455	979118.154	-35.893	26.708	-9.685	-18.870	86.547
548405.9	6927631.0	2760	4840	-0.014	3539.895	979120.594	-33.434	26.984	-9.785	-16.234	87.441
549192.1	6927608.4	2760	4920	-0.014	3541.840	979122.539	-31.502	27.564	-9.995	-13.932	89.321
550018.0	6927599.6	2760	5000	-0.013	3543.872	979124.571	-29.474	27.976	-10.144	-11.642	90.656
550812.3	6927590.8	2760	5080	-0.012	3544.129	979124.828	-29.220	30.941	-11.219	-9.498	100.263
551606.8	6927598.4	2760	5160	-0.039	3545.941	979126.640	-27.401	30.688	-11.128	-7.840	99.444
552403.7	6927609.6	2760	5240	-0.039	3547.743	979128.442	-25.589	29.533	-10.709	-6.765	95.699
553195.6	6927616.1	2760	5320	-0.038	3549.062	979129.761	-24.263	29.207	-10.590	-5.647	94.642
554021.3	6927597.5	2760	5400	-0.037	3550.876	979131.575	-22.459	27.903	-10.118	-4.674	90.417
554811.4	6927644.1	2760	5480	-0.035	3552.603	979133.302	-20.699	26.499	-9.608	-3.809	85.867
555603.0	6927588.6	2760	5560	-0.034	3553.224	979133.923	-20.113	26.179	-9.493	-3.426	84.832
556402.1	6927597.2	2760	5640	-0.033	3552.060	979132.759	-21.268	27.889	-10.113	-3.492	90.374
557174.5	6927593.8	2760	5720	-0.033	3553.196	979133.895	-20.132	25.934	-9.404	-3.602	84.037
557996.7	6927601.6	2760	5800	-0.032	3551.283	979131.982	-22.037	27.593	-10.005	-4.450	89.412
558804.9	6927606.5	2760	5880	-0.031	3550.002	979130.701	-23.312	28.161	-10.211	-5.362	91.255
559603.1	6927596.9	2760	5960	-0.030	3548.931	979129.630	-24.387	28.394	-10.296	-6.289	92.008
560393.3	6927613.7	2760	6040	-0.030	3549.361	979130.060	-23.943	26.741	-9.696	-6.899	86.653
547598.4	6928396.9	2840	4760	-0.008	3534.740	979115.439	-38.076	28.986	-10.511	-19.600	93.929
548404.3	6928391.4	2840	4840	-0.008	3537.802	979118.501	-35.016	28.247	-10.243	-17.011	91.534
549203.9	6928410.3	2840	4920	-0.009	3540.028	979120.727	-32.775	28.642	-10.386	-14.519	92.813
550023.2	6928388.3	2840	5000	-0.010	3541.241	979121.940	-31.575	30.583	-11.090	-12.081	99.103
550790.8	6928406.8	2840	5080	-0.011	3543.559	979124.258	-29.242	30.280	-10.980	-9.941	98.122
551600.4	6928379.9	2840	5160	-0.020	3545.897	979126.596	-26.920	29.230	-10.599	-8.288	94.719
552409.4	6928389.5	2840	5240	-0.021	3547.884	979128.583	-24.924	28.464	-10.321	-6.781	92.235
553229.4	6928406.2	2840	5320	-0.022	3549.040	979129.739	-23.754	28.534	-10.347	-5.567	92.463
553992.0	6928401.3	2840	5400	-0.023	3550.691	979131.390	-22.104	27.104	-9.828	-4.828	87.829
554783.0	6928385.0	2840	5480	-0.024	3551.693	979132.392	-21.111	27.181	-9.856	-3.786	88.077
555609.8	6928394.1	2840	5560	-0.024	3551.465	979132.164	-21.330	28.289	-10.258	-3.299	91.668
556387.5	6928399.3	2840	5640	-0.025	3551.608	979132.307	-21.181	28.271	-10.251	-3.161	91.612
557192.3	6928401.6	2840	5720	-0.026	3551.902	979132.601	-20.883	27.223	-9.871	-3.532	88.214
558017.6	6928363.1	2840	5800	-0.027	3551.024	979131.723	-21.785	27.204	-9.864	-4.445	88.152
558810.2	6928418.7	2840	5880	-0.027	3548.645	979129.344	-24.124	29.331	-10.636	-5.428	95.045
559591.1	6928392.7	2840	5960	-0.028	3548.875	979129.574	-23.908	27.864	-10.104	-6.148	90.293
560386.7	6928390.1	2840	6040	-0.029	3548.791	979129.490	-23.992	27.028	-9.801	-6.764	87.584
549191.0	6931614.5	3160	4920	-0.005	3535.922	979116.621	-34.729	29.532	-10.708	-15.905	95.697
553988.8	6931596.4	3160	5400	-0.051	3543.488	979124.187	-27.161	31.532	-11.434	-7.063	102.179
D83											

553442.2	6931813.0	0	5102	+0.000	3978.660	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.010	3978.660	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.070	3978.670	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.010	3978.740	979122.441	-28.763	32.442	-11.764	-8.085	105.126
547593.3	6929198.1	2920	4760	-0.066	3970.694	979114.465	-38.512	28.858	-10.464	-20.118	93.513
548393.9	6929200.8	2920	4840	-0.065	3972.265	979116.036	-36.937	30.136	-10.928	-17.728	97.655
549197.8	6929203.6	2920	4920	-0.064	3975.386	979119.157	-33.812	29.293	-10.622	-15.141	94.922
549992.3	6929206.6	2920	5000	-0.063	3977.547	979121.318	-31.647	29.845	-10.822	-12.624	96.710
550783.3	6929207.8	2920	5080	-0.063	3979.627	979123.398	-29.564	29.532	-10.708	-10.740	95.697
551595.9	6929205.6	2920	5160	-0.062	3981.663	979125.434	-27.527	29.109	-10.555	-8.973	94.325
552388.8	6929194.0	2920	5240	-0.061	3983.504	979127.275	-25.691	28.689	-10.403	-7.405	92.965
553183.7	6929198.3	2920	5320	-0.059	3985.736	979129.507	-23.454	27.884	-10.111	-5.681	90.355
553980.8	6929207.4	2920	5400	-0.058	3985.722	979129.493	-23.460	28.377	-10.290	-5.372	91.954
554805.5	6929204.9	2920	5480	-0.058	3987.047	979130.818	-22.134	28.185	-10.220	-4.169	91.332
555602.3	6929204.8	2920	5560	-0.057	3987.258	979131.029	-21.921	29.050	-10.534	-3.404	94.135
556388.9	6929205.0	2920	5640	-0.056	3987.594	979131.365	-21.582	28.854	-10.463	-3.191	93.499
557193.2	6929192.0	2920	5720	-0.055	3987.480	979131.251	-21.702	28.359	-10.283	-3.626	91.895
557996.9	6929195.6	2920	5800	-0.054	3986.791	979130.562	-22.386	28.209	-10.229	-4.406	91.411
558792.5	6929193.2	2920	5880	-0.053	3983.682	979127.453	-25.494	31.136	-11.290	-5.648	100.894
559588.1	6929195.0	2920	5960	-0.052	3984.468	979128.239	-24.704	28.842	-10.458	-6.320	93.462
560377.1	6929180.9	2920	6040	-0.051	3984.609	979128.380	-24.570	27.706	-10.046	-6.911	89.780
561196.7	6929187.4	2920	6120	-0.037	3983.453	979127.224	-25.719	28.657	-10.391	-7.454	92.860
547609.7	6929997.4	3000	4760	-0.011	3969.669	979113.440	-39.000	29.433	-10.673	-20.239	95.377
548401.7	6930007.6	3000	4840	-0.012	3972.058	979115.829	-36.602	29.236	-10.601	-17.967	94.738
549200.6	6929998.8	3000	4920	-0.013	3974.172	979117.943	-34.492	29.540	-10.711	-15.663	95.723
550002.8	6929998.3	3000	5000	-0.014	3976.596	979120.367	-32.066	29.348	-10.642	-13.360	95.099
550787.5	6929983.7	3000	5080	-0.015	3978.545	979122.316	-30.124	29.262	-10.611	-11.473	94.822
551622.4	6929994.5	3000	5160	-0.016	3981.004	979124.775	-27.656	28.349	-10.280	-9.586	91.864
552389.0	6930018.9	3000	5240	-0.018	3982.317	979126.088	-26.324	28.646	-10.387	-8.066	92.825
553204.7	6930009.4	3000	5320	-0.020	3983.865	979127.636	-24.780	28.692	-10.404	-6.492	92.975
553997.5	6930001.7	3000	5400	-0.021	3984.464	979128.235	-24.184	29.074	-10.542	-5.653	94.213
554800.8	6930021.6	3000	5480	-0.022	3985.088	979128.859	-23.544	29.230	-10.599	-4.913	94.719
555588.1	6929998.2	3000	5560	-0.023	3986.517	979130.288	-22.129	28.755	-10.427	-3.801	93.178
556395.4	6930002.7	3000	5640	-0.027	3986.013	979129.784	-22.627	30.267	-10.975	-3.335	98.077
557194.7	6930002.3	3000	5720	-0.028	3986.522	979130.293	-22.116	29.282	-10.618	-3.452	94.885
558009.5	6930004.9	3000	5800	-0.029	3985.186	979128.957	-23.448	30.072	-10.904	-4.279	97.448
558800.1	6929999.0	3000	5880	-0.031	3983.654	979127.425	-24.981	30.571	-11.085	-5.495	99.064
559596.0	6929995.0	3000	5960	-0.033	3983.212	979126.983	-25.423	29.887	-10.837	-6.373	96.846
560390.4	6930011.3	3000	6040	-0.034	3983.791	979127.562	-24.830	28.051	-10.171	-6.951	90.898
561183.4	6929992.7	3000	6120	-0.035	3982.445	979126.216	-26.186	29.097	-10.551	-7.640	94.286
547587.4	6930796.7	3080	4760	-0.010	3969.190	979112.961	-38.942	29.436	-10.674	-20.180	95.385
548398.2	6930791.7	3080	4840	-0.008	3971.347	979115.118	-36.786	29.476	-10.688	-17.998	95.516
549187.7	6930797.7	3080	4920	-0.007	3973.688	979117.459	-34.439	29.124	-10.561	-15.875	94.376
549989.5	6930801.8	3080	5000	-0.068	3975.857	979119.628	-32.265	28.859	-10.464	-13.871	93.515
D84											
553442.2	6931813.0	0	5102	+0.000	3541.816	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.816	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.049	3541.816	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.767	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553198.2	6932419.2	3240	5320	+0.048	3540.361	979120.986	-29.812	32.492	-11.782	-9.101	105.290
563206.2	6935238.8	3520	6320	+0.045	3522.697	979103.322	-45.551	47.517	-17.230	-15.264	153.977
564037.3	6935235.2	3520	6400	+0.045	3522.628	979103.253	-45.620	46.232	-16.764	-16.152	149.811
564733.7	6935198.3	3520	6480	+0.044	3518.880	979099.505	-49.390	50.842	-18.436	-16.983	164.752
565655.6	6935207.6	3520	6560	+0.043	3526.566	979107.191	-41.695	39.015	-14.147	-16.827	126.425
566451.2	6935225.6	3520	6640	+0.041	3520.495	979101.120	-47.751	46.471	-16.851	-18.130	150.587
567191.8	6935199.9	3520	6720	+0.040	3515.179	979095.804	-53.081	53.864	-19.531	-18.748	174.544
568004.6	6935203.2	3520	6800	+0.039	3517.338	979097.963	-50.917	50.557	-18.332	-18.692	163.827
561220.8	6935602.5	3560	6120	+0.032	3534.553	979115.178	-33.458	33.490	-12.144	-12.112	108.523
561996.8	6935581.0	3560	6200	+0.031	3532.562	979113.187	-35.461	34.788	-12.614	-13.287	112.728
562802.3	6935610.8	3560	6280	+0.031	3529.565	979110.190	-38.435	37.222	-13.497	-14.710	120.617
563578.8	6935636.3	3560	6360	+0.030	3522.489	979103.114	-45.491	45.736	-16.584	-16.339	148.205
564383.0	6935597.8	3560	6440	+0.029	3522.637	979103.262	-45.367	44.821	-16.252	-16.798	145.240
565204.5	6935615.6	3560	6520	+0.029	3516.654	979097.279	-51.335	51.693	-18.744	-18.386	167.508
566011.3	6935571.0	3560	6600	+0.026	3523.246	979103.871	-44.770	41.832	-15.168	-18.106	135.554
563958.2	6935994.3	3600	6400	+0.005	3524.501	979105.126	-43.238	41.617	-15.091	-16.711	134.859
565571.7	6936004.6	3600	6560	+0.009	3520.266	979100.891	-47.460	45.011	-16.321	-18.771	145.854
566361.5	6936032.0	3600	6640	+0.023	3520.673	979101.298	-47.032	43.117	-15.634	-19.549	139.718
567181.1	6935992.5	3600	6720	+0.025	3511.718	979092.343	-56.010	53.969	-19.569	-21.611	174.884
D84											
553442.2	6931813.0	0	5102	+0.000	3978.738	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.738	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.057	3978.738	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.795	979122.441	-28.763	32.442	-11.764	-8.085	105.126
561183.9	6929992.7	3000	6120	-0.004	3982.481	979126.184	-26.218	29.089	-10.548	-7.677	94.260
560818.7	6931192.8	3120	6080	-0.006	3981.409	979125.112	-26.485	29.837	-10.819	-7.467	96.686
561600.4	6931198.6	3120	6160	-0.007	3976.668	979120.371	-31.220	35.626	-12.918	-8.512	115.445
562403.2	6931194.8	3120	6240	-0.008	3977.912	979121.615	-29.976	33.497	-12.146	-8.625	108.544
563203.0	6931205.8	3120	6320	-0.009	3979.881	979123.584	-27.997	31.022	-11.249	-8.223	100.524
564002.2	6931207.5	3120	6400	-0.010	3978.090	979121.793	-29.784	32.846	-11.910	-8.848	106.435
564803.6	6931202.1	3120	6480	-0.011	3977.044	979120.747	-30.830	33.318	-12.081	-9.594	107.965
565614.4	6931204.3	3120	6560	-0.011	3978.584	979122.287	-29.286	29.301	-10.625	-10.610	94.949
566386.8	6931185.4	3120	6640	-0.013	3975.347	979119.050	-32.533	30.480	-11.052	-13.105	98.769
567203.5	6931196.5	3120	6720	-0.014	3972.811	979116.514	-35.058	32.656	-11.841	-14.243	105.821

560819.4	6934412.2	3440	6080	-0.046	3977.574	979121.277	-28.159	32.091	-11.636	-7.705	103.989
561600.2	6934387.6	3440	6160	-0.045	3973.720	979117.423	-32.027	35.389	-12.832	-9.470	114.676
562395.9	6934411.0	3440	6240	-0.044	3971.851	979115.554	-33.878	36.368	-13.187	-10.697	117.848
563194.4	6934401.3	3440	6320	-0.043	3967.827	979111.530	-37.906	39.427	-14.297	-12.775	127.762
563987.2	6934392.1	3440	6400	-0.043	3965.427	979109.130	-40.309	40.583	-14.716	-14.441	131.508
564798.7	6934385.9	3440	6480	-0.042	3959.473	979103.176	-46.264	47.116	-17.084	-16.233	152.675
566519.2	6934394.3	3440	6640	-0.031	3956.444	979100.147	-49.281	50.572	-18.338	-17.047	163.877
567156.1	6934403.0	3440	6720	-0.030	3955.555	979099.258	-50.162	52.219	-18.935	-16.878	169.211
567986.3	6934395.9	3440	6800	-0.028	3952.352	979096.055	-53.367	56.983	-20.662	-17.046	184.650
557984.7	6934796.1	3480	5800	-0.055	3972.975	979116.678	-32.510	39.949	-14.486	-7.047	129.451
559582.5	6934794.9	3480	5960	-0.048	3974.622	979118.325	-30.859	36.794	-13.342	-7.406	119.229
560404.2	6934800.5	3480	6040	-0.049	3972.821	979116.524	-32.653	37.480	-13.590	-8.764	121.451
561213.0	6934805.2	3480	6120	-0.049	3974.261	979117.964	-31.207	33.722	-12.228	-9.713	109.275
561989.8	6934793.1	3480	6200	-0.050	3972.070	979115.773	-33.404	34.821	-12.626	-11.209	112.835
562803.7	6934792.6	3480	6280	-0.051	3969.129	979112.832	-36.342	37.468	-13.586	-12.460	121.414
563593.7	6934805.3	3480	6360	-0.052	3963.978	979107.681	-41.482	42.085	-15.260	-14.657	136.374
D85											
553442.2	6931813.0	0	5102	+0.000	3541.903	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.903	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.037	3541.903	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.866	979122.441	-28.763	32.442	-11.764	-8.085	105.126
551301.9	6925210.4	33	5320	+0.019	3550.583	979131.121	-24.526	27.188	-9.858	-7.197	88.101
551699.0	6925906.2	33	5400	+0.009	3551.230	979131.768	-23.410	27.546	-9.988	-5.852	89.262
555615.3	6922815.1	2280	5560	+0.034	3553.897	979134.435	-22.810	25.019	-9.072	-6.863	81.074
556418.8	6922788.7	2280	5640	+0.034	3553.323	979133.861	-23.400	25.328	-9.184	-7.256	82.074
550006.3	6923580.3	2360	5000	+0.030	3547.207	979127.745	-29.002	25.654	-9.302	-12.650	83.131
550803.6	6923599.2	2360	5080	+0.031	3549.344	979129.882	-26.850	25.599	-9.282	-10.534	82.951
551592.3	6923574.0	2360	5160	+0.031	3551.067	979131.605	-25.142	25.838	-9.369	-8.673	83.726
552366.8	6923618.3	2360	5240	+0.032	3552.107	979132.645	-24.070	26.550	-9.627	-7.147	86.034
553218.7	6923601.7	2360	5320	+0.032	3553.215	979133.753	-22.970	26.372	-9.563	-6.161	85.458
553993.6	6923589.2	2360	5400	+0.032	3553.732	979134.270	-22.460	26.224	-9.509	-5.745	84.976
554797.8	6923593.2	2360	5480	+0.032	3553.915	979134.453	-22.271	26.072	-9.454	-5.653	84.484
555599.1	6923589.0	2360	5560	+0.033	3553.726	979134.264	-22.461	25.738	-9.333	-6.055	83.403
556401.6	6923582.4	2360	5640	+0.033	3554.573	979135.111	-21.616	24.041	-8.717	-6.292	77.902
557154.0	6923566.6	2360	5720	+0.033	3554.770	979135.308	-21.427	23.369	-8.474	-6.531	75.727
547596.4	6924373.9	2440	4760	+0.017	3539.817	979120.355	-35.865	26.312	-9.541	-19.094	85.262
548390.0	6924386.3	2440	4840	+0.017	3541.462	979122.000	-34.209	26.876	-9.745	-17.078	87.091
549180.6	6924385.5	2440	4920	+0.017	3545.171	979125.709	-30.499	25.525	-9.255	-14.229	82.711
549952.6	6924417.1	2440	5000	+0.018	3547.067	979127.605	-28.579	26.372	-9.563	-11.770	85.457
550810.1	6924409.0	2440	5080	+0.030	3549.066	979129.604	-26.583	26.918	-9.761	-9.426	87.227
551622.4	6924410.3	2440	5160	+0.029	3551.238	979131.776	-24.408	26.658	-9.666	-7.417	86.383
552394.7	6924406.1	2440	5240	+0.029	3552.640	979133.178	-23.007	26.782	-9.711	-5.936	86.786
553197.4	6924408.1	2440	5320	+0.029	3553.508	979134.046	-22.135	26.705	-9.683	-5.113	86.537
553980.2	6924396.2	2440	5400	+0.029	3553.921	979134.459	-21.728	26.723	-9.690	-4.695	86.595
554800.0	6924406.9	2440	5480	+0.028	3553.993	979134.531	-21.646	26.485	-9.604	-4.765	85.823
555582.3	6924405.3	2440	5560	+0.028	3553.662	979134.200	-21.976	26.273	-9.527	-5.229	85.136
556383.8	6924396.2	2440	5640	+0.028	3554.286	979134.824	-21.355	24.571	-8.910	-5.694	79.622
557199.2	6924421.7	2440	5720	+0.027	3554.579	979135.117	-21.043	23.765	-8.617	-5.895	77.010
558007.8	6924410.1	2440	5800	+0.025	3553.967	979134.505	-21.660	23.979	-8.695	-6.376	77.702
558789.3	6924450.4	2440	5880	+0.024	3553.736	979134.274	-21.861	24.208	-8.778	-6.431	78.444
547600.6	6925229.4	2520	4760	+0.016	3538.300	979118.838	-36.806	27.227	-9.873	-19.452	88.228
548448.0	6925194.3	2520	4840	+0.016	3542.480	979123.018	-32.648	25.356	-9.194	-16.486	82.164
549200.7	6925202.7	2520	4920	+0.016	3544.234	979124.772	-30.886	27.124	-9.835	-13.597	87.894
549991.3	6925220.0	2520	5000	+0.015	3547.069	979127.607	-28.037	26.998	-9.789	-10.829	87.484
550803.0	6925200.1	2520	5080	+0.018	3549.340	979129.878	-25.777	27.190	-9.859	-8.447	88.106
551592.9	6925187.9	2520	5160	+0.019	3551.127	979131.665	-23.996	27.252	-9.882	-6.626	88.309
552410.7	6925193.4	2520	5240	+0.019	3552.187	979132.725	-22.930	27.455	-9.955	-5.431	88.966
553184.4	6925195.2	2520	5320	+0.019	3552.711	979133.249	-22.403	27.523	-9.980	-4.860	89.186
553989.6	6925192.1	2520	5400	+0.020	3552.992	979133.530	-22.121	27.460	-9.957	-4.618	88.984
554815.2	6925203.4	2520	5480	+0.020	3552.238	979132.776	-22.865	28.103	-10.190	-4.953	91.065
555609.3	6925205.3	2520	5560	+0.020	3552.982	979133.520	-22.118	26.562	-9.631	-5.187	86.072
556388.1	6925179.8	2520	5640	+0.021	3552.704	979133.242	-22.410	26.518	-9.615	-5.508	85.929
557215.7	6925194.6	2520	5720	+0.021	3554.287	979134.825	-20.815	24.322	-8.819	-5.312	78.814
557965.6	6925187.9	2520	5800	+0.022	3553.947	979134.485	-21.157	24.332	-8.823	-5.648	78.845
558800.8	6925165.6	2520	5880	+0.022	3552.505	979133.043	-22.611	25.833	-9.367	-6.145	83.710
559606.1	6925187.7	2520	5960	+0.022	3551.310	979131.848	-23.789	26.613	-9.650	-6.826	86.237
560402.2	6925196.3	2520	6040	+0.023	3551.241	979131.779	-23.849	25.459	-9.231	-7.622	82.497
547599.7	6925995.0	2600	4760	+0.011	3538.158	979118.696	-36.434	26.994	-9.788	-19.228	87.472
548390.5	6926022.6	2600	4840	+0.012	3542.071	979122.609	-32.500	25.665	-9.306	-16.141	83.166
549204.8	6926001.8	2600	4920	+0.014	3544.046	979124.584	-30.537	27.275	-9.890	-13.152	88.384
550003.6	6925991.4	2600	5000	+0.015	3546.828	979127.366	-27.760	27.394	-9.933	-10.299	88.768
550785.6	6926018.8	2600	5080	+0.009	3549.019	979129.557	-25.548	27.780	-10.073	-7.841	90.018
551586.2	6925996.3	2600	5160	+0.009	3550.850	979131.388	-23.730	27.717	-10.050	-6.063	89.816
552403.4	6925991.2	2600	5240	+0.008	3551.186	979131.724	-23.395	28.313	-10.266	-5.349	91.745
553218.3	6925999.1	2600	5320	+0.008	3551.115	979131.653	-23.458	28.713	-10.412	-5.157	93.044
553997.3	6926011.3	2600	5400	+0.007	3551.492	979132.030	-23.071	28.569	-10.359	-4.861	92.575
554814.0	6926003.5	2600	5480	+0.007	3551.407	979131.945	-23.159	28.636	-10.384	-4.906	92.794
555588.4	6925998.2	2600	5560	+0.007	3552.013	979132.551	-22.554	27.553	-9.991	-4.992	89.283
556372.0	6925995.4	2600	5640	+0.006	3552.371	979132.909	-22.195	26.969	-9.779	-5.005	87.392
557205.1	6926006.6	2600	5720	+0.006	3552.898	979133.436	-21.658	26.544	-9.625	-4.739	86.014
558007.7	6925993.0	2600	5800	+0.006	3553.894	979134.432	-20.669	24.721	-8.964	-4.911	80.107
558796.7	6925996.4	2600	5880	+0.005	3552.457	979132.995	-22.101	25.825	-9.364	-5.640	83.683
559566.5	6926000.2	2600	5960	+0.005	3550.412	979130.950	-24.141	27.638	-10.022	-6.524	89.560

560395.0	6925989.5	2600	6040	+0.005	3550.232	979130.770	-24.325	26.406	-9.575	-7.494	85.568
561170.6	6926016.7	2600	6120	+0.004	3550.532	979131.070	-24.004	25.200	-9.138	-7.942	81.658
547600.2	6926827.2	2680	4760	+0.011	3538.361	979118.899	-35.671	26.649	-9.663	-18.686	86.353
548414.3	6926803.0	2680	4840	+0.010	3540.647	979121.185	-33.399	27.493	-9.969	-15.875	89.091
549199.3	6926805.9	2680	4920	+0.010	3543.803	979124.341	-30.239	26.605	-9.647	-13.282	86.211
550027.5	6926778.3	2680	5000	+0.010	3545.565	979126.103	-28.494	27.659	-10.029	-10.864	89.627
553983.6	6926800.0	2680	5400	+0.035	3550.484	979131.022	-23.549	29.186	-10.583	-4.945	94.576
557988.8	6926804.1	2680	5800	+0.002	3552.918	979133.456	-21.099	25.915	-9.397	-4.581	83.975
558803.8	6926799.1	2680	5880	+0.003	3551.266	979131.804	-22.752	27.186	-9.858	-5.424	88.094
559622.5	6926807.4	2680	5960	+0.003	3549.852	979130.390	-24.158	27.861	-10.103	-6.399	90.282
560377.3	6926800.0	2680	6040	+0.003	3549.941	979130.479	-24.071	26.663	-9.668	-7.077	86.399
561176.9	6926809.5	2680	6120	+0.004	3550.088	979130.626	-23.915	25.719	-9.326	-7.522	83.342
D85											
553442.2	6931813.0	0	5102	+0.000	3978.840	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.840	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.045	3978.840	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.005	3978.885	979122.441	-28.763	32.442	-11.764	-8.085	105.126
562803.0	6927607.5	2760	6280	-0.032	3986.708	979130.309	-23.690	26.520	-9.616	-6.787	85.936
563587.2	6927597.4	2760	6360	-0.032	3986.478	979130.079	-23.924	27.438	-9.949	-6.436	88.910
563195.6	6928004.4	2800	6320	-0.029	3986.166	979129.767	-23.964	27.013	-9.795	-6.746	87.534
563985.9	6928012.1	2800	6400	-0.028	3986.562	979130.163	-23.560	27.166	-9.851	-6.244	88.030
564796.8	6928025.7	2800	6480	-0.028	3984.482	979128.083	-25.628	29.521	-10.705	-6.811	95.662
565593.0	6928100.1	2800	6560	-0.027	3982.758	979126.359	-27.299	30.921	-11.212	-7.591	100.197
566381.7	6928040.8	2800	6640	-0.027	3982.143	979125.744	-27.951	29.810	-10.809	-8.951	96.597
567198.6	6928000.3	2800	6720	-0.026	3979.454	979123.055	-30.664	32.992	-11.963	-9.635	106.910
567991.5	6927995.9	2800	6800	-0.026	3977.509	979121.110	-32.609	35.257	-12.784	-10.137	114.249
564394.0	6928399.3	2840	6440	-0.024	3985.906	979129.507	-23.955	27.414	-9.941	-6.481	88.835
565198.7	6928403.1	2840	6520	-0.024	3983.096	979126.697	-26.759	30.278	-10.979	-7.460	98.115
565986.7	6928401.6	2840	6600	-0.025	3982.660	979126.261	-27.193	29.051	-10.534	-8.676	94.137
564800.2	6928800.8	2880	6480	-0.022	3984.648	979128.249	-24.941	27.816	-10.086	-7.212	90.136
565593.1	6928806.7	2880	6560	-0.022	3983.073	979126.674	-26.509	28.426	-10.308	-8.391	92.114
566394.9	6928798.7	2880	6640	-0.021	3980.449	979124.050	-29.136	30.325	-10.996	-9.807	98.267
567198.5	6928803.6	2880	6720	-0.021	3976.479	979120.080	-33.100	35.180	-12.756	-10.676	113.999
567999.6	6928807.8	2880	6800	-0.020	3973.025	979116.626	-36.548	38.850	-14.087	-11.785	125.891
561196.7	6929187.2	2920	6120	-0.043	3983.627	979127.228	-25.715	28.673	-10.397	-7.439	92.914
561988.4	6929190.1	2920	6200	-0.042	3983.148	979126.749	-26.190	28.985	-10.510	-7.714	93.925
562781.3	6929193.2	2920	6280	-0.042	3984.493	979128.094	-24.840	27.439	-9.950	-7.350	88.915
563586.4	6929197.4	2920	6360	-0.041	3983.984	979127.585	-25.343	28.350	-10.280	-7.273	91.867
564397.2	6929192.0	2920	6440	-0.018	3984.832	979128.433	-24.496	27.098	-9.826	-7.224	87.810
565201.8	6929191.8	2920	6520	-0.019	3983.411	979127.012	-25.914	27.797	-10.079	-8.197	90.074
565997.3	6929204.9	2920	6600	-0.019	3980.676	979124.277	-28.637	29.579	-10.725	-9.784	95.848
560790.6	6929598.9	2960	6080	-0.038	3984.142	979127.743	-24.925	27.712	-10.048	-7.262	89.799
561598.7	6929607.0	2960	6160	-0.039	3982.571	979126.172	-26.488	29.376	-10.652	-7.764	95.190
562408.1	6929603.1	2960	6240	-0.040	3983.520	979127.121	-25.539	27.993	-10.150	-7.696	90.709
563212.9	6929603.8	2960	6320	-0.040	3984.170	979127.771	-24.886	27.343	-9.915	-7.457	88.604
564006.5	6929598.1	2960	6400	-0.041	3982.964	979126.565	-26.093	28.808	-10.446	-7.730	93.351
564793.2	6929605.2	2960	6480	-0.018	3983.292	979126.893	-25.757	27.456	-9.956	-8.257	88.970
565602.3	6929595.0	2960	6560	-0.017	3980.243	979123.844	-28.810	29.917	-10.848	-9.741	96.945
566395.2	6929606.0	2960	6640	-0.016	3978.269	979121.870	-30.774	31.873	-11.557	-10.458	103.282
567199.3	6929603.0	2960	6720	-0.016	3972.909	979116.510	-36.133	37.863	-13.729	-11.999	122.693
567999.0	6929598.7	2960	6800	-0.015	3974.000	979117.601	-35.041	34.821	-12.626	-12.847	112.835
561989.4	6930003.4	3000	6200	-0.038	3981.512	979125.113	-27.279	30.073	-10.905	-8.111	97.451
562798.0	6929994.0	3000	6280	-0.037	3982.458	979126.059	-26.337	29.020	-10.523	-7.839	94.038
563585.6	6929991.7	3000	6360	-0.037	3982.273	979125.874	-26.521	28.963	-10.502	-8.060	93.852
564399.0	6930001.7	3000	6440	-0.036	3981.179	979124.780	-27.605	29.502	-10.697	-8.801	95.599
565196.8	6929999.7	3000	6520	-0.013	3981.392	979124.993	-27.390	28.029	-10.163	-9.525	90.825
565988.8	6929995.7	3000	6600	-0.014	3979.621	979123.222	-29.161	29.890	-10.838	-10.110	96.856
560800.8	6930403.9	3040	6080	-0.033	3982.407	979126.008	-26.119	29.299	-10.624	-7.444	94.943
561599.8	6930399.5	3040	6160	-0.034	3980.261	979123.862	-28.266	31.438	-11.400	-8.227	101.874
562399.0	6930400.3	3040	6240	-0.034	3979.886	979123.487	-28.637	31.725	-11.504	-8.416	102.802
563203.9	6930390.6	3040	6320	-0.035	3980.250	979123.851	-28.277	31.211	-11.317	-8.383	101.136
563998.8	6930396.2	3040	6400	-0.035	3980.970	979124.571	-27.550	29.538	-10.711	-8.723	95.716
564847.9	6930401.3	3040	6480	-0.013	3981.237	979124.838	-27.277	28.097	-10.188	-9.368	91.048
565596.7	6930408.2	3040	6560	-0.012	3980.463	979124.064	-28.044	28.560	-10.356	-9.840	92.547
566392.7	6930394.1	3040	6640	-0.012	3977.403	979121.004	-31.110	31.124	-11.286	-11.272	100.855
567199.1	6930404.2	3040	6720	-0.010	3972.270	979115.871	-36.233	35.271	-12.789	-13.752	114.292
567996.1	6930405.2	3040	6800	-0.010	3974.930	979118.531	-33.570	30.974	-11.231	-13.827	100.368
561191.9	6930792.8	3080	6120	-0.003	3979.227	979122.828	-29.037	32.848	-11.911	-8.100	106.442
562004.8	6930802.2	3080	6200	-0.004	3979.786	979123.387	-28.469	31.478	-11.414	-8.405	102.001
562799.0	6930805.0	3080	6280	-0.004	3979.096	979122.697	-29.154	32.307	-11.715	-8.562	104.688
563591.6	6930803.3	3080	6360	-0.005	3980.880	979124.481	-27.368	29.839	-10.820	-8.349	96.693
564401.4	6930805.1	3080	6440	-0.005	3978.860	979122.461	-29.384	31.586	-11.453	-9.252	102.352
565206.1	6930796.3	3080	6520	-0.007	3980.433	979124.034	-27.814	28.538	-10.348	-9.624	92.476
566005.6	6930797.9	3080	6600	-0.008	3979.047	979122.648	-29.196	29.067	-10.540	-10.669	94.189
560818.4	6931192.5	3120	6080	-0.003	3981.507	979125.108	-26.490	29.841	-10.820	-7.469	96.698
567993.8	6931196.9	3120	6800	-0.009	3975.001	979118.602	-32.967	29.911	-10.846	-13.902	96.925
D86											
553442.2	6931813.0	0	5102	+0.000	3541.882	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.882	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.057	3541.882	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3541.939	979122.441	-28.763	32.442	-11.764	-8.085	105.126
549899.7	6922790.6	33	5040	-0.048	3547.450	979128.009	-29.270	24.663	-8.943	-13.550	79.919
547628.6	6922796.1	2280	4760	-0.051	3542.333	979122.892	-34.389	25.463	-9.233	-18.159	82.512

548403.4	6922785.5	2280	4840	-0.050	3543.684	979124.243	-33.043	25.687	-9.314	-16.670	83.237
549196.0	6922801.4	2280	4920	-0.050	3544.604	979125.163	-32.110	26.564	-9.632	-15.179	86.078
550018.9	6922787.1	2280	5000	-0.048	3547.850	979128.409	-28.872	24.490	-8.880	-13.262	79.359
550826.2	6922807.0	2280	5080	-0.047	3548.972	979129.531	-27.734	25.262	-9.160	-11.632	81.861
551601.9	6922789.2	2280	5160	-0.046	3550.089	979130.648	-26.627	25.929	-9.402	-10.100	84.022
552385.2	6922800.3	2280	5240	-0.045	3551.433	979131.992	-25.273	26.062	-9.450	-8.661	84.453
553190.7	6922800.2	2280	5320	-0.045	3552.662	979133.221	-24.042	25.612	-9.287	-7.717	82.993
554029.7	6922786.6	2280	5400	-0.044	3553.056	979133.615	-23.654	25.942	-9.407	-7.119	84.065
554789.6	6922798.1	2280	5480	-0.043	3553.758	979134.317	-22.942	25.370	-9.199	-6.772	82.209
547593.8	6923570.0	2360	4760	-0.051	3541.551	979122.110	-34.651	25.347	-9.191	-18.495	82.134
548383.7	6923594.2	2360	4840	-0.052	3542.022	979122.581	-34.161	27.027	-9.800	-16.934	87.581
549183.7	6923611.9	2360	4920	-0.052	3545.549	979126.108	-30.620	25.015	-9.071	-14.676	81.060
552411.3	6925193.2	2520	5240	-0.054	3552.184	979132.743	-22.912	27.453	-9.955	-5.414	88.961
561224.5	6933205.8	3320	6120	-0.032	3540.148	979120.707	-29.538	36.596	-13.270	-6.211	118.588
561996.6	6933184.2	3320	6200	-0.031	3536.540	979117.099	-33.157	40.881	-14.824	-7.100	132.472
562814.7	6933197.8	3320	6280	-0.031	3534.374	979114.933	-35.312	41.661	-15.106	-8.757	135.000
563596.9	6933230.4	3320	6360	-0.030	3529.043	979109.602	-40.618	46.051	-16.698	-11.265	149.227
564412.4	6933161.9	3320	6440	-0.029	3524.977	979105.536	-44.727	48.056	-17.425	-14.097	155.721
565160.3	6933182.7	3320	6520	-0.027	3532.246	979112.805	-37.441	35.630	-12.920	-14.731	115.458
565999.0	6933219.3	3320	6600	-0.021	3522.982	979103.541	-46.678	47.410	-17.191	-16.459	153.629
560837.7	6933591.3	3360	6080	-0.033	3540.165	979120.724	-29.263	35.969	-13.043	-6.337	116.556
561601.5	6933563.8	3360	6160	-0.033	3540.189	979120.748	-29.255	35.424	-12.845	-6.676	114.788
562394.1	6933602.4	3360	6240	-0.034	3537.107	979117.666	-32.308	37.556	-13.618	-8.370	121.698
563169.6	6933652.1	3360	6320	-0.035	3525.556	979106.115	-43.823	50.296	-18.238	-11.765	162.981
563996.0	6933638.2	3360	6400	-0.036	3529.274	979109.833	-40.112	42.209	-15.305	-13.208	136.775
564852.1	6933573.3	3360	6480	-0.015	3530.679	979111.238	-38.747	37.817	-13.713	-14.643	122.543
565595.8	6933591.5	3360	6560	-0.016	3524.362	979104.921	-45.049	45.154	-16.373	-16.268	146.320
566346.7	6933597.2	3360	6640	-0.017	3522.391	979102.950	-47.014	47.717	-17.302	-16.599	154.624
567181.8	6933688.8	3360	6720	-0.018	3518.712	979099.271	-50.628	52.489	-19.033	-17.172	170.089
567984.0	6933626.2	3360	6800	-0.019	3525.617	979106.176	-43.762	43.845	-15.898	-15.816	142.077
561201.1	6934027.0	3400	6120	-0.039	3540.513	979121.072	-28.621	33.345	-12.091	-7.368	108.051
562024.5	6933988.2	3400	6200	-0.038	3537.790	979118.349	-31.368	35.377	-12.828	-8.818	114.638
562795.2	6934002.6	3400	6280	-0.038	3533.754	979114.313	-35.391	39.100	-14.178	-10.469	126.702
563602.4	6934008.2	3400	6360	-0.037	3527.211	979107.770	-41.928	45.385	-16.457	-13.000	147.068
564365.3	6933986.3	3400	6440	-0.036	3528.746	979109.305	-40.405	40.586	-14.717	-14.536	131.516
565240.5	6933968.1	3400	6520	-0.014	3524.231	979104.790	-44.929	45.246	-16.406	-16.090	146.616
566055.5	6934035.4	3400	6600	-0.012	3522.583	979103.142	-46.529	46.724	-16.942	-16.747	151.405
560404.1	6934800.2	3480	6040	-0.005	3535.969	979116.528	-32.649	37.510	-13.601	-8.740	121.550
564447.0	6934834.9	3480	6440	-0.008	3522.673	979103.232	-45.908	47.057	-17.063	-15.914	152.484
565190.1	6934925.0	3480	6520	-0.009	3523.790	979104.349	-44.728	44.138	-16.004	-16.595	143.025
565962.8	6934804.2	3480	6600	-0.010	3518.604	979099.163	-49.992	50.701	-18.384	-17.676	164.293
560777.8	6935160.7	3520	6080	-0.005	3537.133	979117.692	-31.242	33.356	-12.095	-9.981	108.089
561577.0	6935215.0	3520	6160	-0.006	3533.921	979114.480	-34.415	35.548	-12.890	-11.757	115.190
562393.5	6935178.5	3520	6240	-0.007	3532.187	979112.746	-36.171	36.411	-13.203	-12.962	117.989
D86											
553442.2	6931813.0	0	5102	+0.000	3978.905	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.905	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.080	3978.905	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3978.985	979122.441	-28.763	32.442	-11.764	-8.085	105.126
559592.2	6924399.2	2440	5960	-0.069	3990.181	979133.717	-22.450	24.466	-8.872	-6.855	79.282
560391.8	6924391.9	2440	6040	-0.070	3989.080	979132.616	-23.553	24.802	-8.993	-7.745	80.368
561205.5	6924399.9	2440	6120	-0.071	3987.354	979130.890	-25.271	26.040	-9.442	-8.674	84.380
560867.8	6928787.6	2880	6080	-0.056	3985.269	979128.805	-24.408	27.132	-9.838	-7.114	87.921
561595.7	6928805.8	2880	6160	-0.057	3984.058	979127.594	-25.604	28.458	-10.319	-7.465	92.216
562398.5	6928807.3	2880	6240	-0.058	3983.947	979127.483	-25.711	28.656	-10.391	-7.446	92.858
563199.7	6928802.8	2880	6320	-0.059	3985.731	979129.267	-23.928	26.594	-9.643	-6.977	86.177
563962.6	6928794.4	2880	6400	-0.059	3985.741	979129.277	-23.921	26.946	-9.771	-6.745	87.318
560800.8	6930403.8	3040	6080	-0.078	3982.467	979126.003	-26.124	29.285	-10.619	-7.459	94.895
561600.4	6931199.0	3120	6160	-0.005	3976.850	979120.386	-31.205	35.657	-12.929	-8.477	115.544
561190.4	6931596.9	3160	6120	-0.007	3980.563	979124.099	-27.226	30.983	-11.235	-7.477	100.400
561995.4	6931603.1	3160	6200	-0.008	3977.277	979120.813	-30.505	35.067	-12.715	-8.154	113.632
562803.4	6931602.5	3160	6280	-0.009	3977.961	979121.497	-29.819	34.041	-12.344	-8.121	110.309
563613.9	6931606.2	3160	6360	-0.010	3979.140	979122.676	-28.634	32.039	-11.618	-8.213	103.821
564400.7	6931596.8	3160	6440	-0.011	3976.744	979120.280	-31.034	34.185	-12.395	-9.245	110.773
565208.9	6931602.4	3160	6520	-0.012	3977.123	979120.659	-30.648	31.357	-11.370	-10.662	101.609
565995.5	6931595.2	3160	6600	-0.013	3975.567	979119.103	-32.206	30.184	-10.945	-12.967	97.810
560789.3	6931996.1	3200	6080	-0.039	3980.846	979124.382	-26.676	31.266	-11.337	-6.747	101.317
561594.9	6931992.4	3200	6160	-0.038	3978.182	979121.718	-29.340	34.257	-12.422	-7.504	111.009
562398.7	6931996.9	3200	6240	-0.037	3975.738	979119.274	-31.778	37.800	-13.707	-7.684	122.490
563197.1	6932008.2	3200	6320	-0.036	3975.824	979119.360	-31.682	36.694	-13.305	-8.293	118.904
564000.7	6932006.4	3200	6400	-0.035	3976.605	979120.141	-30.899	34.288	-12.433	-9.044	111.107
564794.5	6932000.7	3200	6480	-0.034	3972.871	979116.407	-34.634	37.047	-13.433	-11.021	120.047
565603.8	6932011.6	3200	6560	-0.032	3968.093	979111.629	-39.402	39.871	-14.457	-13.988	129.200
566367.8	6932109.4	3200	6640	-0.017	3970.858	979114.394	-36.568	34.282	-12.431	-14.717	111.090
567197.3	6932001.8	3200	6720	-0.016	3973.909	979117.445	-33.587	30.429	-11.034	-14.191	98.603
568005.0	6931997.5	3200	6800	-0.015	3975.380	979118.916	-32.115	28.686	-10.402	-13.831	92.954
561198.9	6932401.5	3240	6120	-0.040	3979.465	979123.001	-27.784	33.079	-11.995	-6.699	107.190
562010.1	6932402.7	3240	6200	-0.041	3978.019	979121.555	-29.226	35.546	-12.889	-6.569	115.186
562814.9	6932407.8	3240	6280	-0.043	3968.837	979112.373	-38.402	46.384	-16.819	-8.837	150.306
563599.7	6932376.5	3240	6360	-0.044	3972.121	979115.657	-35.136	39.995	-14.502	-9.644	129.600
564388.6	6932404.6	3240	6440	-0.045	3972.845	979116.381	-34.390	37.073	-13.443	-10.760	120.134
565188.7	6932400.2	3240	6520	-0.046	3965.074	979108.610	-42.162	44.244	-16.043	-13.961	143.369
566033.1	6932394.1	3240	6600	-0.019	3966.651	979110.187	-40.586	39.771	-14.421	-15.235	128.877

560802.4	6932806.6	3280	6080	-0.052	3978.063	979121.599	-28.915	35.523	-12.881	-6.273	115.109
561598.5	6932798.4	3280	6160	-0.051	3978.444	979121.980	-28.537	35.398	-12.835	-5.974	114.705
562388.7	6932795.8	3280	6240	-0.050	3967.655	979111.191	-39.325	48.560	-17.608	-8.373	157.357
563199.2	6932797.5	3280	6320	-0.049	3969.621	979113.157	-37.355	43.907	-15.921	-9.369	142.279
564001.7	6932804.7	3280	6400	-0.048	3967.682	979111.218	-39.286	43.974	-15.945	-11.257	142.495
564802.2	6932799.3	3280	6480	-0.047	3960.123	979103.659	-46.846	50.821	-18.428	-14.453	164.681
565652.2	6932755.3	3280	6560	-0.023	3969.537	979113.073	-37.458	35.474	-12.863	-14.848	114.951
566402.9	6932801.6	3280	6640	-0.024	3961.186	979104.722	-45.776	46.514	-16.866	-16.128	150.726
567211.4	6932776.4	3280	6720	-0.025	3966.245	979109.781	-40.731	39.602	-14.360	-15.488	128.328
568003.2	6932814.5	3280	6800	-0.027	3972.633	979116.169	-34.314	31.036	-11.254	-14.532	100.569
D89											
560903.4	6924253.0	0	5103	+0.000	3987.100	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.100	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.095	3987.100	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.195	979130.365	-25.896	27.347	-9.916	-8.465	88.615
557260.3	6921204.1	2120	5720	-0.073	3992.597	979135.862	-22.462	22.589	-8.191	-8.064	73.199
557998.7	6921216.5	2120	5800	-0.075	3992.765	979136.030	-22.284	22.560	-8.180	-7.904	73.103
558790.7	6921200.0	2120	5880	-0.077	3992.028	979135.293	-23.029	23.504	-8.523	-8.047	76.164
559605.2	6921207.7	2120	5960	-0.078	3991.027	979134.292	-24.022	24.847	-9.009	-8.185	80.514
560394.4	6921203.2	2120	6040	-0.079	3990.461	979133.726	-24.589	25.995	-9.426	-8.020	84.234
561188.8	6921197.0	2120	6120	-0.081	3988.979	979132.244	-26.072	28.434	-10.310	-7.948	92.139
561987.3	6921187.2	2120	6200	-0.082	3989.753	979133.018	-25.302	29.635	-10.746	-6.413	96.029
562791.6	6921207.0	2120	6280	-0.084	3989.451	979132.716	-25.588	32.768	-11.882	-4.701	106.184
563590.6	6921200.2	2120	6360	-0.085	3990.020	979133.285	-25.020	34.977	-12.683	-2.726	113.340
558003.5	6922008.4	2200	5800	-0.070	3992.175	979135.440	-22.341	23.094	-8.374	-7.621	74.835
558811.7	6922002.1	2200	5880	-0.069	3991.396	979134.661	-23.121	23.868	-8.655	-7.908	77.344
559601.3	6921994.5	2200	5960	-0.068	3989.932	979133.197	-24.588	25.328	-9.184	-8.443	82.075
560387.3	6922005.4	2200	6040	-0.067	3989.303	979132.568	-25.207	26.460	-9.594	-8.341	85.741
561199.3	6921975.9	2200	6120	-0.065	3988.550	979131.815	-25.977	28.201	-10.226	-8.002	91.384
562010.2	6922000.7	2200	6200	-0.063	3988.592	979131.857	-25.915	29.671	-10.759	-7.003	96.146
562813.4	6921995.6	2200	6280	-0.061	3988.074	979131.339	-26.434	32.554	-11.804	-5.684	105.488
563597.3	6922003.9	2200	6360	-0.060	3988.055	979131.320	-26.445	35.608	-12.912	-3.748	115.386
557216.9	6922813.6	2280	5720	-0.046	3992.039	979135.304	-21.937	23.156	-8.397	-7.177	75.037
557991.2	6922800.2	2280	5800	-0.049	3991.796	979135.061	-22.187	23.414	-8.490	-7.263	75.872
558790.8	6922792.3	2280	5880	-0.050	3991.135	979134.400	-22.850	24.059	-8.724	-7.515	77.961
559584.6	6922818.2	2280	5960	-0.051	3989.719	979132.984	-24.247	25.484	-9.241	-8.003	82.580
560394.6	6922822.2	2280	6040	-0.052	3988.458	979131.723	-25.502	26.668	-9.670	-8.504	86.415
561194.8	6922799.6	2280	6120	-0.054	3987.226	979130.491	-26.747	28.191	-10.222	-8.778	91.351
561989.4	6922798.4	2280	6200	-0.055	3986.705	979129.970	-27.266	29.556	-10.717	-8.427	95.773
562778.5	6922797.1	2280	6280	-0.056	3986.714	979129.979	-27.255	31.343	-11.365	-7.277	101.566
563595.7	6922799.4	2280	6360	-0.057	3986.783	979130.048	-27.181	33.945	-12.309	-5.545	109.997
557968.2	6923577.0	2360	5800	-0.044	3991.441	979134.706	-22.019	23.671	-8.583	-6.932	76.703
558787.5	6923610.6	2360	5880	-0.042	3990.993	979134.258	-22.442	24.050	-8.721	-7.113	77.934
559578.6	6923592.8	2360	5960	-0.041	3990.419	979133.684	-23.026	24.657	-8.941	-7.309	79.899
560387.6	6923600.8	2360	6040	-0.040	3988.040	979131.305	-25.396	26.828	-9.728	-8.297	86.934
561187.4	6923611.2	2360	6120	-0.038	3987.262	979130.527	-26.165	27.172	-9.853	-8.845	88.050
561991.1	6923609.5	2360	6200	-0.037	3986.308	979129.573	-27.117	28.517	-10.340	-8.940	92.408
562795.6	6923595.3	2360	6280	-0.036	3986.764	979130.029	-26.668	29.413	-10.665	-7.920	95.312
563593.7	6923611.2	2360	6360	-0.033	3986.722	979129.987	-26.696	32.108	-11.642	-6.231	104.044
560392.1	6924391.6	2440	6040	-0.008	3989.347	979132.612	-23.557	24.812	-8.997	-7.742	80.402
561205.6	6924399.7	2440	6120	-0.092	3987.603	979130.868	-25.293	26.067	-9.452	-8.679	84.467
561993.3	6924389.9	2440	6200	-0.028	3986.807	979130.072	-26.093	26.809	-9.721	-9.006	86.872
562789.6	6924406.0	2440	6280	-0.030	3985.340	979128.605	-27.547	30.155	-10.934	-8.326	97.716
563583.8	6924408.7	2440	6360	-0.021	3985.279	979128.544	-27.603	32.350	-11.730	-6.984	104.827
561190.4	6925214.7	2520	6120	-0.012	3988.093	979131.358	-24.255	25.136	-9.115	-8.234	81.453
561994.3	6925204.0	2520	6200	-0.013	3986.222	979129.487	-26.131	27.671	-10.034	-8.493	89.667
562778.0	6925177.4	2520	6280	-0.014	3986.356	979129.621	-26.012	28.627	-10.380	-7.765	92.763
563586.5	6925193.6	2520	6360	-0.018	3986.052	979129.317	-26.302	30.294	-10.985	-6.993	98.167
D90											
561931.0	6926468.1	0	298	+0.000	3549.897	979130.204	-24.564	26.524	-9.618	-7.658	85.948
561931.0	6926468.1	0	298	+0.000	3549.897	979130.204	-24.564	26.524	-9.618	-7.658	85.948
561931.0	6926468.1	0	298	+0.000	3549.916	979130.203	-24.565	26.524	-9.618	-7.659	85.948
561931.0	6926468.1	0	298	+0.000	3549.916	979130.203	-24.565	26.524	-9.618	-7.659	85.948
560903.4	6924253.0	0	5103	+0.000	3550.058	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3550.058	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.020	3550.058	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3550.078	979130.365	-25.896	27.347	-9.916	-8.465	88.615
551198.4	6915992.9	1600	5120	-0.017	3548.793	979129.100	-32.752	25.694	-9.317	-16.374	83.260
551993.8	6916021.1	1600	5200	-0.017	3550.249	979130.556	-31.274	24.094	-8.736	-15.917	78.074
552821.1	6916002.0	1600	5280	-0.017	3550.694	979131.001	-30.840	24.163	-8.762	-15.438	78.300
553613.3	6916004.2	1600	5360	-0.017	3550.725	979131.032	-30.805	24.733	-8.968	-15.040	80.146
554407.2	6915988.6	1600	5440	-0.018	3551.234	979131.541	-30.304	24.430	-8.859	-14.732	79.165
547602.9	6921208.7	2120	4760	-0.016	3543.710	979124.017	-34.332	24.092	-8.736	-18.976	78.069
548350.9	6921187.7	2120	4840	-0.015	3545.273	979125.580	-32.781	24.020	-8.710	-17.471	77.837
549196.7	6921230.5	2120	4920	-0.015	3547.370	979127.677	-30.653	23.710	-8.597	-15.540	76.832
550076.0	6921245.0	2120	5000	-0.014	3548.905	979129.212	-29.106	23.772	-8.620	-13.954	77.031
550813.3	6921256.0	2120	5080	-0.013	3550.161	979130.468	-27.841	23.566	-8.545	-12.820	76.363
551618.2	6921253.2	2120	5160	-0.013	3551.413	979131.720	-26.588	23.201	-8.413	-11.800	75.183
552407.1	6921235.3	2120	5240	-0.012	3552.500	979132.807	-25.511	23.065	-8.364	-10.809	74.742
553179.6	6921177.2	2120	5320	-0.012	3553.458	979133.765	-24.590	22.959	-8.325	-9.956	74.396
554010.8	6921192.2	2120	5400	-0.012	3553.660	979133.967	-24.375	23.812	-8.634	-9.197	77.162
554775.5	6921203.2	2120	5480	-0.012	3553.824	979134.131	-24.202	24.175	-8.766	-8.792	78.338
555572.9	6921223.6	2120	5560	-0.012	3553.030	979133.337	-24.979	25.301	-9.174	-8.853	81.986

556422.4	6921210.1	2120	5640	-0.011	3554.135	979134.442	-23.881	24.323	-8.820	-8.377	78.818
547594.3	6921999.1	2200	4760	-0.003	3544.110	979124.417	-33.400	23.972	-8.692	-18.121	77.679
548401.8	6921975.9	2200	4840	-0.003	3546.001	979126.308	-31.523	23.814	-8.635	-16.344	77.169
549202.1	6921969.5	2200	4920	-0.004	3547.498	979127.805	-30.028	23.934	-8.679	-14.772	77.557
550018.9	6921999.6	2200	5000	-0.005	3547.660	979127.967	-29.843	25.631	-9.294	-13.506	83.056
550800.1	6921997.8	2200	5080	-0.005	3550.255	979130.562	-27.247	23.810	-8.634	-12.071	77.155
551613.8	6921998.0	2200	5160	-0.005	3550.129	979130.436	-27.371	25.805	-9.357	-10.923	83.618
552415.9	6921992.3	2200	5240	-0.005	3551.931	979132.238	-25.571	25.001	-9.066	-9.635	81.015
553206.2	6921995.0	2200	5320	-0.006	3552.566	979132.873	-24.931	25.089	-9.097	-8.940	81.300
554012.1	6921997.6	2200	5400	-0.006	3552.948	979133.255	-24.545	25.496	-9.245	-8.294	82.617
554805.2	6921978.4	2200	5480	-0.006	3553.500	979133.807	-24.004	25.384	-9.204	-7.824	82.256
555599.2	6922003.4	2200	5560	-0.006	3553.727	979134.034	-23.757	25.257	-9.158	-7.658	81.845
556414.6	6922004.3	2200	5640	-0.006	3553.680	979133.987	-23.801	25.167	-9.126	-7.760	81.551
557166.6	6922000.0	2200	5720	-0.007	3555.546	979135.853	-21.936	22.818	-8.274	-7.392	73.940
551622.3	6924410.4	2440	5160	-0.019	3551.489	979131.796	-24.388	26.663	-9.668	-7.393	86.399
552411.3	6925193.4	2520	5240	-0.002	3552.452	979132.759	-22.896	27.468	-9.960	-5.388	89.009
D90											
561931.0	6926468.1	0	298	+0.000	3987.070	979130.215	-24.553	26.524	-9.618	-7.647	85.948
561931.0	6926468.1	0	298	+0.000	3987.060	979130.205	-24.563	26.524	-9.618	-7.657	85.948
561931.0	6926468.1	0	298	+0.000	3987.210	979130.187	-24.581	26.524	-9.618	-7.675	85.948
561931.0	6926468.1	0	298	+0.000	3987.205	979130.182	-24.586	26.524	-9.618	-7.680	85.948
560903.4	6924253.0	0	5103	+0.000	3987.220	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.220	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.168	3987.220	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.388	979130.365	-25.896	27.347	-9.916	-8.465	88.615
558408.2	6919194.7	1920	5840	-0.158	3993.517	979136.662	-23.011	22.172	-8.040	-8.879	71.847
559196.8	6919200.4	1920	5920	-0.160	3994.240	979137.385	-22.282	21.833	-7.917	-8.366	70.748
557592.4	6919996.9	2000	5760	-0.151	3993.149	979136.294	-22.842	22.335	-8.099	-8.606	72.374
558402.9	6920000.9	2000	5840	-0.148	3993.547	979136.692	-22.438	22.158	-8.035	-8.315	71.801
559196.6	6920000.2	2000	5920	-0.146	3993.649	979136.794	-22.334	22.288	-8.082	-8.128	72.224
561190.8	6925215.4	2520	6120	-0.008	3988.202	979131.347	-24.266	25.144	-9.117	-8.239	81.478
561990.0	6926001.6	2600	6200	-0.121	3986.339	979129.484	-25.597	27.576	-9.999	-8.021	89.358
562793.8	6925999.1	2600	6280	-0.124	3985.786	979128.931	-26.149	29.441	-10.675	-7.384	95.401
563592.7	6926003.3	2600	6360	-0.126	3986.584	979129.729	-25.346	29.006	-10.518	-6.858	93.992
562000.2	6926799.8	2680	6200	-0.118	3986.602	979129.747	-24.798	26.994	-9.788	-7.592	87.474
562788.1	6926802.3	2680	6280	-0.117	3986.183	979129.328	-25.212	28.499	-10.334	-7.048	92.348
563595.1	6926817.4	2680	6360	-0.114	3985.061	979128.206	-26.321	30.547	-11.076	-6.851	98.985
560804.5	6927209.0	2720	6080	-0.134	3987.341	979130.486	-23.788	25.959	-9.413	-7.242	84.118
561594.4	6927209.2	2720	6160	-0.136	3987.234	979130.379	-23.892	25.845	-9.371	-7.419	83.748
562394.2	6927199.0	2720	6240	-0.085	3986.315	979129.460	-24.815	27.623	-10.016	-7.208	89.512
563201.6	6927197.3	2720	6320	-0.088	3986.167	979129.312	-24.962	28.491	-10.331	-6.801	92.325
564008.3	6927200.0	2720	6400	-0.090	3986.190	979129.335	-24.934	28.896	-10.478	-6.515	93.637
564798.7	6927202.7	2720	6480	-0.092	3986.453	979129.598	-24.666	28.513	-10.339	-6.492	92.396
565595.9	6927208.1	2720	6560	-0.099	3983.561	979126.706	-27.552	31.082	-11.270	-7.740	100.718
566407.1	6927202.5	2720	6640	-0.101	3982.529	979125.674	-28.585	31.251	-11.332	-8.665	101.267
567208.5	6927215.2	2720	6720	-0.103	3983.227	979126.372	-27.875	31.361	-11.371	-7.886	101.622
568000.7	6927201.3	2720	6800	-0.107	3981.813	979124.958	-29.295	32.607	-11.823	-8.512	105.661
561193.4	6927601.0	2760	6120	-0.038	3986.772	979129.917	-24.092	26.262	-9.523	-7.353	85.102
561969.1	6927676.6	2760	6200	-0.041	3987.099	979130.244	-23.712	25.929	-9.402	-7.184	84.022
560876.1	6928001.2	2800	6080	-0.036	3986.394	979129.539	-24.202	26.657	-9.666	-7.211	86.380
561599.8	6927992.6	2800	6160	-0.034	3986.576	979129.721	-24.024	26.241	-9.515	-7.298	85.033
562425.8	6927954.8	2800	6240	-0.031	3987.119	979130.264	-23.503	26.013	-9.433	-6.922	84.295
561191.0	6928392.2	2840	6120	-0.015	3984.880	979128.025	-25.452	28.411	-10.302	-7.343	92.064
561991.8	6928405.0	2840	6200	-0.018	3985.792	979128.937	-24.529	27.042	-9.806	-7.293	87.628
562794.3	6928441.7	2840	6280	-0.021	3986.639	979129.784	-23.655	26.305	-9.538	-6.888	85.241
563590.2	6928428.6	2840	6360	-0.024	3986.626	979129.771	-23.674	26.656	-9.666	-6.683	86.377
D91											
563788.0	6908997.3	0	201	-0.042	3564.016	979144.264	-22.264	26.330	-9.547	-5.481	85.320
563788.0	6908997.3	0	201	-0.042	3564.015	979144.263	-22.265	26.330	-9.547	-5.482	85.320
563788.0	6908997.3	0	201	-0.011	3564.074	979144.277	-22.251	26.330	-9.547	-5.468	85.320
563788.0	6908997.3	0	201	-0.012	3564.074	979144.277	-22.251	26.330	-9.547	-5.468	85.320
560903.4	6924253.0	0	5103	+0.000	3550.117	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3550.117	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.045	3550.117	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3550.162	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.018	3550.162	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3550.180	979130.365	-25.896	27.347	-9.916	-8.465	88.615
557618.4	6909585.4	960	5760	-0.030	3559.466	979139.714	-26.438	26.402	-9.573	-9.610	85.554
558397.4	6909600.2	960	5840	-0.031	3562.370	979142.618	-23.521	27.447	-9.952	-6.027	88.941
559218.2	6909596.7	960	5920	-0.031	3563.842	979144.090	-22.049	26.415	-9.578	-5.213	85.595
559988.8	6909588.6	960	6000	-0.031	3563.230	979143.478	-22.664	25.737	-9.332	-6.259	83.400
560789.3	6909589.3	960	6080	-0.032	3564.108	979144.356	-21.783	25.414	-9.215	-5.584	82.354
561624.6	6909646.9	960	6160	-0.032	3565.114	979145.362	-20.735	25.746	-9.336	-4.324	83.430
562387.4	6909621.3	960	6240	-0.033	3565.434	979145.682	-20.430	25.483	-9.240	-4.187	82.577
563190.9	6909588.5	960	6320	-0.033	3564.932	979145.180	-20.951	25.373	-9.200	-4.778	82.220
564002.5	6909585.5	960	6400	-0.033	3565.146	979145.394	-20.736	25.082	-9.095	-4.749	81.277
564793.2	6909583.1	960	6480	-0.034	3565.805	979146.053	-20.076	25.128	-9.112	-4.059	81.426
565603.6	6909606.3	960	6560	-0.034	3567.046	979147.294	-18.816	25.048	-9.083	-2.851	81.168
566385.9	6909615.3	960	6640	-0.035	3567.746	979147.994	-18.107	25.580	-9.275	-1.803	82.890
567210.3	6909579.9	960	6720	-0.035	3569.079	979149.327	-16.795	26.499	-9.609	0.095	85.868
568000.5	6909560.9	960	6800	-0.036	3572.041	979152.289	-13.843	24.964	-9.052	2.069	80.893
557612.2	6910420.6	1040	5760	-0.030	3559.042	979139.290	-26.299	24.770	-8.982	-10.510	80.267
558397.9	6910416.7	1040	5840	-0.029	3563.250	979143.498	-22.091	24.659	-8.941	-6.373	79.906

559204.9	6910396.6	1040	5920	-0.029	3564.223	979144.471	-21.129	25.128	-9.111	-5.112	81.425
560004.7	6910406.4	1040	6000	-0.028	3564.924	979145.172	-20.418	25.128	-9.112	-4.402	81.426
560795.1	6910433.0	1040	6080	-0.028	3566.225	979146.473	-19.097	24.951	-9.047	-3.193	80.852
561604.4	6910385.1	1040	6160	-0.028	3565.243	979145.491	-20.108	26.650	-9.663	-3.122	86.358
562401.1	6910399.2	1040	6240	-0.027	3566.376	979146.624	-18.963	25.089	-9.097	-2.971	81.299
563235.7	6910439.5	1040	6320	-0.027	3565.700	979145.948	-19.609	25.311	-9.178	-3.476	82.018
563988.8	6910431.0	1040	6400	-0.026	3565.887	979146.135	-19.425	25.008	-9.068	-3.485	81.037
564806.1	6910411.4	1040	6480	-0.026	3566.885	979147.133	-18.437	24.756	-8.977	-2.658	80.221
565618.9	6910408.9	1040	6560	-0.025	3568.253	979148.501	-17.068	23.818	-8.637	-1.886	77.182
566434.8	6910442.6	1040	6640	-0.025	3568.803	979149.051	-16.492	24.884	-9.023	-0.631	80.636
567202.2	6910412.7	1040	6720	-0.024	3569.931	979150.179	-15.381	25.991	-9.424	1.185	84.221
568004.6	6910377.2	1040	6800	-0.024	3571.879	979152.127	-13.454	26.324	-9.545	3.324	85.300
557608.0	6911200.9	1120	5760	-0.018	3558.010	979138.258	-26.804	24.277	-8.803	-11.330	78.668
558405.3	6911184.1	1120	5840	-0.018	3562.019	979142.267	-22.804	23.829	-8.640	-7.616	77.215
559231.4	6911195.2	1120	5920	-0.019	3564.719	979144.967	-20.094	23.561	-8.543	-5.076	76.349
559973.6	6911211.9	1120	6000	-0.019	3565.287	979145.535	-19.512	25.104	-9.103	-3.511	81.347
560792.2	6911204.0	1120	6080	-0.020	3567.515	979147.763	-17.287	23.945	-8.683	-2.024	77.593
561629.5	6911223.5	1120	6160	-0.020	3565.968	979146.216	-18.818	25.219	-9.144	-2.743	81.720
562386.2	6911219.8	1120	6240	-0.020	3565.600	979145.848	-19.185	24.371	-8.837	-3.651	78.974
563208.3	6911208.1	1120	6320	-0.021	3565.722	979145.970	-19.068	24.798	-8.992	-3.262	80.357
563964.0	6911208.6	1120	6400	-0.021	3566.762	979147.010	-18.025	23.991	-8.699	-2.733	77.743
564825.7	6911225.8	1120	6480	-0.022	3568.609	979148.857	-16.164	22.725	-8.240	-1.679	73.640
565597.4	6911198.7	1120	6560	-0.022	3568.588	979148.836	-16.200	23.492	-8.518	-1.227	76.123
566451.3	6911206.0	1120	6640	-0.023	3570.442	979150.690	-14.338	23.131	-8.387	0.405	74.954
567173.8	6911204.9	1120	6720	-0.023	3570.914	979151.162	-13.864	25.418	-9.217	2.337	82.365
567996.3	6911189.2	1120	6800	-0.024	3573.291	979153.539	-11.495	26.110	-9.468	5.148	84.608
557602.2	6912004.4	1200	5760	-0.017	3555.951	979136.199	-28.321	25.312	-9.178	-12.188	82.022
558380.1	6912003.0	1200	5840	-0.017	3560.137	979140.385	-24.134	23.572	-8.547	-9.109	76.383
559202.6	6911986.6	1200	5920	-0.017	3562.857	979143.105	-21.422	23.984	-8.697	-6.135	77.720
557617.4	6912819.8	1280	5760	-0.016	3555.834	979136.082	-27.889	24.614	-8.925	-12.200	79.760
558420.7	6912807.7	1280	5840	-0.016	3559.242	979139.490	-24.486	23.064	-8.363	-9.785	74.739
559183.8	6912815.7	1280	5920	-0.015	3561.699	979141.947	-22.021	22.690	-8.227	-7.559	73.524
557575.3	6913587.5	1360	5760	-0.014	3556.623	979136.871	-26.582	22.544	-8.174	-12.213	73.051
558400.0	6913588.6	1360	5840	-0.015	3558.669	979138.917	-24.533	22.354	-8.106	-10.284	72.437
559187.1	6913616.8	1360	5920	-0.015	3560.478	979140.726	-22.702	22.831	-8.279	-8.150	73.982
557615.3	6914415.6	1440	5760	-0.014	3555.037	979135.285	-27.610	23.767	-8.618	-12.461	77.016
558405.5	6914413.1	1440	5840	-0.013	3556.691	979136.939	-25.955	23.715	-8.599	-10.839	76.848
559205.5	6914417.5	1440	5920	-0.013	3559.878	979140.126	-22.763	21.931	-7.952	-8.784	71.067
560001.2	6914399.5	1440	6000	-0.012	3561.500	979141.748	-21.150	22.424	-8.131	-6.857	72.665
557597.5	6915203.1	1520	5760	-0.010	3555.074	979135.322	-27.042	23.133	-8.388	-12.298	74.960
558399.6	6915204.1	1520	5840	-0.011	3556.576	979136.824	-25.537	22.788	-8.263	-11.012	73.842
559199.4	6915203.9	1520	5920	-0.011	3558.800	979139.048	-23.311	22.160	-8.035	-9.186	71.807
560004.1	6915199.9	1520	6000	-0.012	3560.828	979141.076	-21.283	21.922	-7.949	-7.310	71.036
554407.6	6915988.8	1600	5440	-0.006	3551.284	979131.532	-30.313	24.411	-8.852	-14.753	79.104
555216.1	6916001.4	1600	5520	-0.007	3551.788	979132.036	-29.798	24.401	-8.848	-14.245	79.070
556009.4	6916011.2	1600	5600	-0.007	3553.291	979133.539	-28.286	23.587	-8.553	-13.252	76.431
556805.1	6916021.6	1600	5680	-0.007	3554.482	979134.730	-27.085	23.083	-8.370	-12.372	74.800
557582.9	6916023.8	1600	5760	-0.008	3555.494	979135.742	-26.069	22.646	-8.211	-11.635	73.382
558404.9	6916010.0	1600	5840	-0.008	3556.523	979136.771	-25.047	22.537	-8.172	-10.682	73.029
559188.2	6916007.6	1600	5920	-0.008	3558.394	979138.642	-23.175	22.111	-8.018	-9.081	71.651
557598.5	6916823.9	1680	5760	-0.010	3555.828	979136.076	-25.196	22.714	-8.236	-10.719	73.603
558368.9	6916809.4	1680	5840	-0.009	3556.466	979136.714	-24.566	22.524	-8.167	-10.209	72.988
559211.3	6916807.9	1680	5920	-0.009	3557.282	979137.530	-23.748	23.454	-8.504	-8.799	76.000
D91											
563788.0	6908997.3	0	201	-0.043	4001.262	979144.245	-22.283	26.330	-9.547	-5.500	85.320
563788.0	6908997.3	0	201	-0.043	4001.272	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	-0.009	4001.311	979144.248	-22.280	26.330	-9.547	-5.497	85.320
563788.0	6908997.3	0	201	-0.009	4001.296	979144.233	-22.295	26.330	-9.547	-5.512	85.320
563788.0	6908997.3	0	201	-0.010	4001.310	979144.247	-22.281	26.330	-9.547	-5.498	85.320
563788.0	6908997.3	0	201	-0.010	4001.305	979144.242	-22.286	26.330	-9.547	-5.503	85.320
560903.4	6924253.0	0	5103	+0.000	3987.382	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.382	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.046	3987.382	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.428	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	-0.014	3987.428	979130.365	-25.896	27.347	-9.916	-8.465	88.615
560903.4	6924253.0	0	5103	+0.000	3987.442	979130.365	-25.896	27.347	-9.916	-8.465	88.615
551198.3	6915993.1	1600	5120	-0.038	3986.112	979129.095	-32.756	25.678	-9.311	-16.390	83.207
551189.6	6916801.4	1680	5120	-0.038	3985.802	979128.785	-32.522	24.921	-9.037	-16.637	80.756
552004.8	6916805.1	1680	5200	-0.037	3986.463	979129.446	-31.856	24.954	-9.049	-15.950	80.863
552797.3	6916804.7	1680	5280	-0.037	3986.918	979129.901	-31.399	25.345	-9.190	-15.244	82.128
553587.9	6916793.1	1680	5360	-0.036	3987.689	979130.672	-30.634	25.305	-9.176	-14.504	82.000
554399.6	6916805.3	1680	5440	-0.036	3988.794	979131.777	-29.518	24.768	-8.981	-13.731	80.260
555196.9	6916801.8	1680	5520	-0.035	3990.810	979133.793	-27.502	23.750	-8.612	-12.363	76.962
555988.5	6916799.4	1680	5600	-0.035	3992.165	979135.148	-26.146	23.347	-8.466	-11.264	75.656
556802.3	6916793.3	1680	5680	-0.034	3992.771	979135.754	-25.541	23.017	-8.346	-10.871	74.585
551199.1	6917593.7	1760	5120	-0.028	3984.347	979127.330	-33.443	26.011	-9.432	-16.864	84.288
552003.3	6917594.3	1760	5200	-0.029	3985.656	979128.639	-32.132	25.524	-9.255	-15.862	82.710
552793.8	6917597.0	1760	5280	-0.029	3987.316	979130.299	-30.467	24.599	-8.920	-14.788	79.713
553602.3	6917599.4	1760	5360	-0.030	3988.950	979131.933	-28.829	24.042	-8.718	-13.505	77.906
554397.6	6917600.4	1760	5440	-0.031	3990.629	979133.612	-27.147	23.846	-8.647	-11.948	77.272
555194.9	6917598.6	1760	5520	-0.031	3992.594	979135.577	-25.181	23.349	-8.466	-10.299	75.660
556011.5	6917600.8	1760	5600	-0.031	3993.579	979136.562	-24.192	23.090	-8.373	-9.474	74.823
556807.3	6917600.6	1760	5680	-0.032	3993.398	979136.381	-24.371	22.864	-8.291	-9.797	74.091

557595.4	6917609.2	1760	5760	-0.032	3993.013	979135.996	-24.747	22.871	-8.293	-10.169	74.113
558400.7	6917593.5	1760	5840	-0.033	3993.777	979136.760	-23.991	22.399	-8.122	-9.714	72.582
559204.6	6917607.6	1760	5920	-0.033	3995.202	979138.185	-22.554	21.882	-7.934	-8.607	70.906
551191.7	6918400.6	1840	5120	-0.028	3985.502	979128.485	-31.745	24.108	-8.741	-16.379	78.119
551996.5	6918398.7	1840	5200	-0.026	3986.834	979129.817	-30.412	23.805	-8.632	-15.239	77.138
552802.2	6918397.1	1840	5280	-0.026	3988.269	979131.252	-28.976	23.676	-8.585	-13.885	76.720
553599.2	6918395.3	1840	5360	-0.025	3990.115	979133.098	-27.128	23.399	-8.485	-12.214	75.824
554397.8	6918395.4	1840	5440	-0.025	3992.085	979135.068	-25.156	23.163	-8.399	-10.392	75.059
555195.1	6918412.9	1840	5520	-0.024	3993.376	979136.359	-23.851	22.917	-8.310	-9.243	74.262
555996.5	6918402.4	1840	5600	-0.024	3993.311	979136.294	-23.920	22.727	-8.241	-9.434	73.647
556794.4	6918395.6	1840	5680	-0.023	3993.052	979136.035	-24.181	22.580	-8.188	-9.789	73.170
557592.8	6918390.8	1840	5760	-0.023	3993.267	979136.250	-23.967	22.318	-8.093	-9.742	72.320
558398.4	6918401.7	1840	5840	-0.022	3993.773	979136.756	-23.451	22.066	-8.001	-9.386	71.504
559195.9	6918400.6	1840	5920	-0.021	3994.584	979137.567	-22.638	21.941	-7.956	-8.653	71.099
551198.0	6919191.7	1920	5120	-0.016	3985.994	979128.977	-30.720	23.796	-8.629	-15.553	77.110
551998.2	6919202.6	1920	5200	-0.016	3987.444	979130.427	-29.260	23.546	-8.538	-14.253	76.298
552791.5	6919196.9	1920	5280	-0.017	3989.148	979132.131	-27.558	23.306	-8.451	-12.703	75.522
553600.5	6919192.8	1920	5360	-0.017	3990.683	979133.666	-26.023	23.139	-8.390	-11.274	74.982
554395.5	6919192.7	1920	5440	-0.018	3991.842	979134.825	-24.862	22.903	-8.305	-10.264	74.217
555197.8	6919197.7	1920	5520	-0.018	3992.322	979135.305	-24.376	22.636	-8.208	-9.948	73.349
556004.8	6919198.8	1920	5600	-0.019	3992.531	979135.514	-24.164	22.479	-8.151	-9.836	72.842
556805.6	6919195.4	1920	5680	-0.020	3992.970	979135.953	-23.725	22.247	-8.067	-9.545	72.089
557607.8	6919199.1	1920	5760	-0.020	3993.500	979136.483	-23.190	22.041	-7.992	-9.141	71.423
551205.4	6920001.1	2000	5120	-0.015	3987.070	979130.053	-29.099	23.590	-8.554	-14.063	76.443
552005.5	6919984.5	2000	5200	-0.015	3988.630	979131.613	-27.548	23.218	-8.419	-12.749	75.235
552795.3	6919995.1	2000	5280	-0.014	3989.946	979132.929	-26.223	22.910	-8.307	-11.619	74.240
553600.1	6919995.5	2000	5360	-0.013	3990.732	979133.715	-25.434	22.823	-8.276	-10.887	73.958
554407.0	6920006.5	2000	5440	-0.013	3991.302	979134.285	-24.854	22.814	-8.272	-10.313	73.927
555201.5	6919999.4	2000	5520	-0.012	3992.093	979135.076	-24.066	22.270	-8.075	-9.871	72.165
555988.4	6919985.6	2000	5600	-0.011	3992.504	979135.487	-23.661	22.136	-8.026	-9.552	71.729
556795.9	6919875.7	2000	5680	-0.010	3993.030	979136.013	-23.207	21.999	-7.977	-9.185	71.287
558790.8	6921200.2	2120	5880	-0.008	3992.347	979135.330	-22.992	23.495	-8.519	-8.016	76.135
559605.2	6921207.8	2120	5960	-0.007	3991.348	979134.331	-23.983	24.847	-9.010	-8.146	80.515
566407.1	6927202.4	2720	6640	-0.003	3982.732	979125.715	-28.544	31.244	-11.329	-8.629	101.244
567208.2	6927215.0	2720	6720	-0.004	3983.431	979126.414	-27.833	31.363	-11.372	-7.842	101.631
D92											
563788.0	6908997.3	0	201	+0.000	3564.104	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	+0.000	3564.104	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	-0.031	3564.104	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	+0.000	3564.135	979144.255	-22.273	26.330	-9.547	-5.490	85.320
566396.9	6905600.1	560	6640	-0.028	3573.628	979153.779	-15.032	21.132	-7.663	-1.563	68.477
567197.9	6905622.2	560	6720	-0.028	3577.228	979157.379	-11.414	19.096	-6.924	0.757	61.879
568002.4	6905574.3	560	6800	-0.027	3577.903	979158.054	-10.769	19.348	-7.016	1.564	62.695
560010.7	6906409.5	640	6000	-0.022	3563.367	979143.518	-24.770	22.954	-8.323	-10.139	74.382
560779.7	6906400.1	640	6080	-0.023	3564.493	979144.644	-23.647	21.798	-7.904	-9.753	70.636
561600.1	6906396.8	640	6160	-0.023	3564.318	979144.469	-23.822	22.586	-8.190	-9.425	73.189
562384.9	6906379.8	640	6240	-0.024	3566.014	979146.165	-22.134	21.453	-7.779	-8.460	69.517
563211.1	6906394.3	640	6320	-0.024	3566.325	979146.476	-21.811	22.159	-8.035	-7.687	71.804
564012.4	6906426.4	640	6400	-0.025	3568.081	979148.232	-20.030	20.821	-7.550	-6.759	67.470
564820.2	6906375.8	640	6480	-0.025	3569.870	979150.021	-18.272	20.849	-7.560	-4.983	67.560
565597.7	6906386.7	640	6560	-0.025	3570.997	979151.148	-17.135	22.095	-8.012	-3.052	71.596
566371.9	6906394.0	640	6640	-0.026	3572.467	979152.618	-15.657	22.027	-7.987	-1.618	71.376
567171.4	6906382.4	640	6720	-0.026	3576.191	979156.342	-11.938	19.396	-7.033	0.425	62.852
567998.3	6906395.2	640	6800	-0.027	3576.861	979157.012	-11.256	20.376	-7.389	1.731	66.028
560007.4	6907203.0	720	6000	-0.022	3564.351	979144.502	-23.250	23.145	-8.392	-8.498	74.999
560803.1	6907199.3	720	6080	-0.021	3563.446	979143.597	-24.155	23.462	-8.508	-9.200	76.028
561610.5	6907208.0	720	6160	-0.021	3563.943	979144.094	-23.649	23.059	-8.361	-8.951	74.721
562385.2	6907198.1	720	6240	-0.020	3565.288	979145.439	-22.308	22.696	-8.230	-7.842	73.545
563205.4	6907208.0	720	6320	-0.020	3566.873	979147.024	-20.713	21.666	-7.856	-6.904	70.207
564000.5	6907210.0	720	6400	-0.019	3566.024	979146.175	-21.558	23.723	-8.602	-6.438	76.872
564810.2	6907196.9	720	6480	-0.019	3568.062	979148.213	-19.526	22.770	-8.257	-5.012	73.786
565570.4	6907200.9	720	6560	-0.018	3568.247	979148.398	-19.336	25.009	-9.068	-3.395	81.040
566390.2	6907192.8	720	6640	-0.018	3571.423	979151.574	-16.162	22.349	-8.104	-1.917	72.420
567188.1	6907213.8	720	6720	-0.017	3574.500	979154.651	-13.068	20.821	-7.550	0.203	67.469
567992.5	6907210.3	720	6800	-0.017	3575.031	979155.182	-12.536	21.380	-7.753	1.092	69.282
560008.4	6907998.0	800	6000	-0.012	3564.674	979144.825	-22.390	24.215	-8.781	-6.956	78.468
560773.0	6908002.0	800	6080	-0.012	3562.904	979143.055	-24.155	25.046	-9.082	-8.191	81.160
561591.4	6907977.4	800	6160	-0.013	3563.008	979143.159	-24.065	24.895	-9.027	-8.197	80.672
562392.8	6907996.7	800	6240	-0.013	3565.113	979145.264	-21.944	23.048	-8.357	-7.253	74.687
563188.3	6908000.4	800	6320	-0.014	3566.214	979146.365	-20.838	22.665	-8.219	-6.391	73.446
563989.6	6907992.7	800	6400	-0.014	3566.606	979146.757	-20.448	23.597	-8.556	-5.407	76.464
564800.2	6908001.1	800	6480	-0.015	3566.733	979146.884	-20.312	24.033	-8.714	-4.994	77.876
565587.9	6907982.0	800	6560	-0.015	3566.883	979147.034	-20.172	25.588	-9.278	-3.863	82.915
566374.3	6907982.4	800	6640	-0.016	3570.246	979150.397	-16.806	22.839	-8.281	-2.249	74.007
567166.9	6907997.8	800	6720	-0.016	3572.947	979153.098	-14.092	21.272	-7.713	-0.533	68.930
568011.8	6907993.0	800	6800	-0.017	3574.007	979154.158	-13.032	22.601	-8.195	1.374	73.238
557624.9	6908813.1	880	5760	-0.010	3560.505	979140.656	-26.017	26.425	-9.582	-9.174	85.628
558413.9	6908790.4	880	5840	-0.010	3565.158	979145.309	-21.377	24.810	-8.996	-5.563	80.395
559207.4	6908804.5	880	5920	-0.009	3565.251	979145.402	-21.272	25.377	-9.202	-5.097	82.232
560023.4	6908803.2	880	6000	-0.009	3563.919	979144.070	-22.602	25.260	-9.159	-6.501	81.853
560830.0	6908793.0	880	6080	-0.009	3563.772	979143.923	-22.753	24.389	-8.844	-7.207	79.031
561593.6	6908811.8	880	6160	-0.008	3563.735	979143.886	-22.775	25.057	-9.086	-6.803	81.196
562400.8	6908794.8	880	6240	-0.007	3565.264	979145.415	-21.254	23.654	-8.577	-6.177	76.650

563199.2	6908803.5	880	6320	-0.007	3565.590	979145.741	-20.920	23.735	-8.606	-5.791	76.912
563997.8	6908826.8	880	6400	-0.006	3565.439	979145.590	-21.052	24.866	-9.017	-5.202	80.578
564804.2	6908817.3	880	6480	-0.006	3566.041	979146.192	-20.454	24.416	-8.853	-4.891	79.118
565622.2	6908791.5	880	6560	-0.005	3565.742	979145.893	-20.767	26.765	-9.705	-3.707	86.731
566390.3	6908815.2	880	6640	-0.005	3568.532	979148.683	-17.958	24.736	-8.970	-2.191	80.157
567214.1	6908800.8	880	6720	-0.004	3570.394	979150.545	-16.103	24.861	-9.015	-0.257	80.560
568002.5	6908832.9	880	6800	-0.004	3573.105	979153.256	-13.367	23.149	-8.394	1.388	75.014
568000.4	6909560.7	960	6800	-0.003	3572.116	979152.267	-13.865	24.969	-9.054	2.050	80.912
563989.0	6910431.3	1040	6400	-0.030	3565.955	979146.106	-19.454	25.017	-9.071	-3.508	81.067
D92											
563788.0	6908997.3	0	201	+0.000	4001.332	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	+0.000	4001.332	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	-0.050	4001.332	979144.255	-22.273	26.330	-9.547	-5.490	85.320
563788.0	6908997.3	0	201	+0.000	4001.382	979144.255	-22.273	26.330	-9.547	-5.490	85.320
560002.2	6903205.3	320	6000	-0.018	4002.637	979145.560	-24.892	23.724	-8.602	-9.770	76.875
560805.2	6903206.7	320	6080	-0.018	4004.177	979147.100	-23.348	23.815	-8.635	-8.168	77.170
561605.2	6903204.3	320	6160	-0.017	4006.148	979149.071	-21.376	23.552	-8.540	-6.364	76.318
562394.1	6903201.0	320	6240	-0.016	4007.754	979150.677	-19.769	24.744	-8.972	-3.997	80.181
563191.6	6903205.5	320	6320	-0.015	4009.880	979152.803	-17.637	25.109	-9.105	-1.633	81.365
563996.6	6903207.3	320	6400	-0.014	4013.531	979156.454	-13.982	24.334	-8.824	1.528	78.853
564792.0	6903243.3	320	6480	-0.013	4017.657	979160.580	-9.829	22.197	-8.049	4.319	71.927
565597.1	6903189.2	320	6560	-0.012	4016.653	979159.576	-10.867	22.382	-8.116	3.399	72.526
566391.3	6903205.8	320	6640	-0.011	4015.599	979158.522	-11.906	22.473	-8.149	2.418	72.824
567192.6	6903209.1	320	6720	-0.010	4014.935	979157.858	-12.565	22.268	-8.075	1.629	72.159
567994.3	6903195.5	320	6800	-0.008	4015.242	979158.165	-12.264	21.879	-7.933	1.681	70.898
560006.1	6904007.3	400	6000	-0.019	4002.426	979145.349	-24.561	22.136	-8.027	-10.451	71.730
560796.3	6904008.8	400	6080	-0.020	4002.630	979145.553	-24.353	24.115	-8.744	-8.982	78.143
561608.4	6903996.3	400	6160	-0.021	4006.364	979149.287	-20.625	21.626	-7.842	-6.840	70.077
562410.6	6903992.9	400	6240	-0.022	4007.873	979150.796	-19.115	22.823	-8.276	-4.568	73.955
563195.1	6904006.6	400	6320	-0.023	4009.267	979152.190	-17.709	23.838	-8.644	-2.515	77.247
564002.3	6904000.9	400	6400	-0.024	4013.861	979156.784	-13.116	21.787	-7.900	0.771	70.600
564804.5	6903993.0	400	6480	-0.026	4015.674	979158.597	-11.306	21.737	-7.882	2.550	70.438
565601.2	6903989.3	400	6560	-0.027	4015.078	979158.001	-11.901	21.716	-7.874	1.941	70.370
566399.7	6904003.8	400	6640	-0.027	4014.823	979157.746	-12.143	21.491	-7.793	1.555	69.640
567202.4	6903990.6	400	6720	-0.028	4014.727	979157.650	-12.245	20.224	-7.333	0.646	65.534
568010.2	6903995.0	400	6800	-0.029	4016.521	979159.444	-10.445	19.214	-6.967	1.802	62.262
559999.5	6904804.5	480	6000	-0.038	4001.227	979144.150	-25.221	21.937	-7.955	-11.239	71.087
560793.8	6904805.6	480	6080	-0.037	4002.163	979145.086	-24.282	22.974	-8.330	-9.639	74.445
561598.4	6904801.8	480	6160	-0.037	4005.078	979148.001	-21.367	21.475	-7.787	-7.679	69.588
562383.4	6904804.6	480	6240	-0.036	4006.809	979149.732	-19.631	21.441	-7.775	-5.965	69.479
563181.5	6904803.0	480	6320	-0.035	4007.910	979150.833	-18.528	21.800	-7.905	-4.633	70.642
563985.5	6904806.4	480	6400	-0.034	4009.746	979152.669	-16.687	21.895	-7.939	-2.731	70.951
564800.1	6904800.2	480	6480	-0.033	4012.102	979155.025	-14.332	20.990	-7.611	-0.954	68.016
565595.3	6904804.8	480	6560	-0.033	4013.682	979156.605	-12.746	19.674	-7.134	-0.206	63.751
566390.9	6904797.0	480	6640	-0.032	4013.328	979156.251	-13.103	19.587	-7.102	-0.618	63.470
567183.6	6904807.2	480	6720	-0.031	4014.634	979157.557	-11.787	18.839	-6.831	0.221	61.046
568000.1	6904808.5	480	6800	-0.030	4015.510	979158.433	-10.907	18.625	-6.753	0.965	60.353
559998.9	6905612.9	560	6000	-0.039	4000.901	979143.824	-25.001	21.442	-7.775	-11.334	69.483
560804.1	6905604.3	560	6080	-0.040	4002.720	979145.643	-23.185	20.940	-7.593	-9.839	67.854
561604.1	6905597.9	560	6160	-0.041	4003.664	979146.587	-22.243	20.987	-7.610	-8.866	68.008
562412.0	6905611.1	560	6240	-0.042	4004.853	979147.776	-21.042	20.740	-7.520	-7.823	67.207
563201.2	6905598.8	560	6320	-0.043	4006.202	979149.125	-19.699	20.324	-7.369	-6.744	65.858
563998.3	6905561.3	560	6400	-0.043	4007.807	979150.730	-18.116	19.706	-7.145	-5.556	63.855
564819.6	6905597.6	560	6480	-0.044	4009.496	979152.419	-16.400	19.485	-7.065	-3.980	63.140
565595.1	6905608.3	560	6560	-0.045	4010.630	979153.553	-15.256	19.565	-7.094	-2.785	63.399
563190.6	6909588.2	960	6320	-0.049	4002.266	979145.189	-20.942	25.360	-9.196	-4.778	82.178
564002.5	6909585.7	960	6400	-0.005	4002.480	979145.403	-20.727	25.060	-9.087	-4.754	81.205
D95											
553442.2	6931813.0	0	5102	+0.000	3542.509	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3542.509	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.062	3542.509	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3542.447	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553186.9	6931610.8	3160	5320	+0.061	3544.471	979124.403	-26.938	29.696	-10.768	-8.010	96.229
565614.9	6934188.7	3420	6560	+0.029	3528.527	979108.459	-41.110	39.586	-14.354	-15.878	128.276
565158.9	6934380.9	3440	6520	+0.033	3526.282	979106.214	-43.228	42.395	-15.372	-16.206	137.377
565598.8	6934404.6	3440	6560	+0.028	3526.810	979106.742	-42.683	41.434	-15.024	-16.273	134.266
565968.1	6934410.3	3440	6600	+0.026	3525.509	979105.441	-43.978	42.990	-15.589	-16.577	139.308
565611.0	6934598.0	3460	6560	+0.030	3524.597	979104.529	-44.766	44.152	-16.010	-16.624	143.071
565972.6	6934578.7	3460	6600	+0.024	3525.008	979104.940	-44.366	43.264	-15.688	-16.790	140.193
565621.2	6934793.2	3480	6560	+0.031	3525.046	979104.978	-44.186	43.144	-15.644	-16.686	139.806
565962.9	6934804.1	3480	6600	+0.022	3519.217	979099.149	-50.006	50.693	-18.381	-17.695	164.267
566386.1	6934810.4	3480	6640	+0.022	3518.612	979098.544	-50.606	51.396	-18.637	-17.846	166.547
565630.5	6934987.2	3500	6560	+0.020	3527.651	979107.583	-41.451	39.055	-14.162	-16.557	126.557
565985.3	6934992.4	3500	6600	+0.019	3517.978	979097.910	-51.119	51.599	-18.710	-18.230	167.202
565135.6	6935205.9	3520	6520	+0.013	3518.904	979098.836	-50.053	50.857	-18.441	-17.637	164.798
565655.5	6935207.6	3520	6560	+0.011	3527.236	979107.168	-41.718	38.963	-14.128	-16.883	126.258
565968.9	6935208.6	3520	6600	+0.018	3520.009	979099.941	-48.943	48.039	-17.419	-18.323	155.667
565621.9	6935396.5	3540	6560	+0.015	3526.831	979106.763	-41.996	39.043	-14.157	-17.110	126.516
555596.5	6935995.5	3600	5560	+0.058	3531.782	979111.714	-36.677	41.590	-15.081	-10.167	134.771
555173.7	6936410.2	3640	5520	+0.049	3529.208	979109.140	-38.974	43.220	-15.672	-11.425	140.053
555600.1	6936388.5	3640	5560	+0.051	3519.482	979099.414	-48.713	56.178	-20.371	-12.905	182.043
556007.8	6936391.4	3640	5600	+0.057	3529.864	979109.796	-38.328	42.900	-15.556	-10.984	139.015
555624.0	6936779.0	3680	5560	+0.055	3519.277	979099.209	-48.656	55.125	-19.989	-13.520	178.630

D95

553442.2	6931813.0	0	5102	+0.000	3979.678	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3979.678	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	-0.047	3979.678	979122.441	-28.763	32.442	-11.764	-8.085	105.126
553442.2	6931813.0	0	5102	+0.000	3979.725	979122.441	-28.763	32.442	-11.764	-8.085	105.126
549198.9	6921607.1	2160	4920	-0.017	3985.188	979127.951	-30.126	23.726	-8.603	-15.003	76.882
550799.4	6921602.0	2160	5080	-0.023	3987.727	979130.490	-27.586	23.642	-8.573	-12.516	76.612
552397.8	6921596.7	2160	5240	-0.027	3990.108	979132.871	-25.204	23.489	-8.517	-10.232	76.114
557205.1	6921593.0	2160	5720	-0.034	3993.251	979136.014	-22.049	22.565	-8.182	-7.665	73.122
548401.8	6921975.8	2200	4840	-0.013	3983.537	979126.300	-31.531	23.755	-8.614	-16.390	76.977
548803.1	6922011.7	2200	4880	-0.014	3984.231	979126.994	-30.812	23.875	-8.657	-15.593	77.367
549239.4	6922031.8	2200	4920	-0.016	3984.859	979127.622	-30.169	24.355	-8.831	-14.645	78.920
549601.4	6922004.1	2200	4960	-0.019	3985.006	979127.769	-30.040	24.840	-9.007	-14.207	80.492
550392.7	6922001.5	2200	5040	-0.021	3985.664	979128.427	-29.381	25.687	-9.314	-13.008	83.238
550800.1	6921997.8	2200	5080	-0.022	3987.733	979130.496	-27.313	23.782	-8.623	-12.155	77.063
551205.8	6921999.7	2200	5120	-0.024	3988.401	979131.164	-26.643	23.856	-8.650	-11.437	77.305
551997.3	6922001.6	2200	5200	-0.025	3989.520	979132.283	-25.520	24.030	-8.713	-10.204	77.867
552416.0	6921992.6	2200	5240	-0.026	3989.429	979132.192	-25.616	24.949	-9.047	-9.714	80.847
552803.7	6922009.6	2200	5280	-0.028	3990.432	979133.195	-24.601	24.124	-8.748	-9.224	78.174
553206.1	6921995.3	2200	5320	-0.039	3990.091	979132.854	-24.950	25.055	-9.085	-8.981	81.188
556414.4	6922004.3	2200	5640	-0.036	3991.214	979133.977	-23.811	25.143	-9.117	-7.786	81.473
556793.5	6921998.7	2200	5680	-0.031	3991.734	979134.497	-23.294	24.461	-8.870	-7.703	79.263
557166.3	6921999.8	2200	5720	-0.035	3993.035	979135.798	-21.991	22.800	-8.267	-7.458	73.883
557594.4	6921999.5	2200	5760	-0.033	3993.037	979135.800	-21.988	22.874	-8.294	-7.408	74.121
549199.1	6922403.3	2240	4920	-0.015	3983.695	979126.458	-31.083	25.432	-9.222	-14.873	82.411
550803.5	6922400.4	2240	5080	-0.021	3987.329	979130.092	-27.446	24.333	-8.823	-11.937	78.850
552403.9	6922397.8	2240	5240	-0.026	3989.314	979132.077	-25.459	25.462	-9.233	-9.230	82.507
557199.9	6922401.9	2240	5720	-0.032	3992.878	979135.641	-21.877	22.874	-8.294	-7.298	74.122

Production Log

Mon 19-Mar-07 D078

Mobilise to Oodnadatta ex Wudinna
Induction

Tue 20-Mar-07 D079

Commenced northern quarter Oodnadatta Grid adjacent to existing base station.

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
58		2	60	58	2

Nil Safety Incidents

CREW Comments
CREW A:
The area is very soft in places and rocky in others and creek lines are reasonable.
Bogged once.

CREW B:
Accompanied by Barrick Geo.
The area was on the edge of an elevated area and very rocky with difficult driving.
Work interrupted to complete midday sched call after unexpected difficulties.
Organising better comms.

Wed 21-Mar-07 D080

Continued northern quarter Oodnadatta Grid

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
66	4	10	80	124	16

Nil Safety Incidents

CREW Comments
CREW A: Rowan and Darren
All lines flat and easy driving with a few creek crossings.

CREW B: Chris
Tough one today, all lines ran across an elevated range. The hills although not huge have steep sides and are littered with large rocks.

Excessive eccentricities on : 35605160 - 200m South due to terrain
36405400 - 200m South due to terrain
36405320 - 140m South due to terrain

Thu 22-Mar-07 D081

Continued northern quarter Oodnadatta Grid

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
84	4		91	208	20

Nil Safety Incidents

CREW Comments
CREW A: Rowan and Darren
Changed areas to the north east on the 400m lines. Driving is a bit more difficult with an intersecting range of hills but have been ok so far.

Excessive eccentricities on : 38406640 - 105M west due to terrain

Crew B: Chris
Good day today, the hills have levelled out a bit into plateaus so driving was not too difficult once up the top. Ground is a bit soft in places but poses no real problems and the creeks have all been traversable so far.

Excessive eccentricities on : 37205880 - 150M west due to terrain
38005880 - 130M west due to terrain

Fri 23-Mar-07 D082

Continued northern quarter Oodnadatta Grid

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
79	4	2	85	287	26

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren

2 PPI points: Radio range fine out to grid limit except for intervening hills. Driving conditions ok.

Crew B: Chris

Completed northern most lines.
The day was cut a little short because of a thunderstorm that came through with short bouts of heavy rain.

High winds most of today, especially in the afternoon so some high SDs in the gravity obs.

Delayed starting ob due difficulty getting to the first point of the day which necessitated some minor fence repair.

Sat 24-Mar-07 D083

Continued northern quarter Oodnadatta Grid

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
82	4		86	369	30

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren.

All good today. The only problem we had was with very strong winds all day.

Crew B: Chris.

It rained all last night and until about 8am this morning. The road out to the work site was flooded to about 0.5 meter. The work area itself was very

soft, as was the track out to the base so after getting permission we returned to Oodnadatta and brought the quads out to use. When we got back to the base it had dried out a bit so we were able to continue as normal with the two Toyotas.

Was still boggy in places and the creeks had a fair bit of water in them but only a couple of minor boggings.

Both crews in the flat southern area reasonably adjacent in case debogging support was required.

Sun 25-Mar-07 D084

Continued northern quarter Oodnadatta Grid

NEW STNS	QA REPEATS	PREV SVY REPEATS	DAY TOTAL	CUMULATIVE NEW	REPEATS
42	4		46	410	34

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren

Seriously bogged 10:00 t0 11:45 and needed Chris to help pull us out.
The creeks in the area still have plenty of water in them and finding crossing points can be difficult because of thick vegetation.

2 PPI points.

Crew B: Chris

Major seismic activity and echoes 10:15 to 12:00. Spent most of that time helping Crew A out of their bogging.
Bogged myself 13:00 to 14:00 and needed Crew A to pull me out.
A difficult day.

Excessive eccentricities on : 34406640 - 120m east due to terrain

Mon 26-Mar-07 D085

Continued northern third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
127	4	2	133	536	40

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren

Earlier start and had easy terrain. Avoided the creek lines.

Crew B: Chris

Major creek running through mainly flatter work area. Avoided multiple crossing by completing the eastern side first before coming back around to work on the western side.

Tue 27-Mar-07 D086

Continued central third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
8	4	1	90	622	45

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren.

Finished off the hilly section and continued with the southern sections from yesterday. These areas proved to be a bit harder than first thought as when we approach the river it turns swampy and impassable for the 4wd. Quad bike will be needed.

Crew B: Chris.

Finished off the hilly difficult stuff, and now into the swampy and sand dune difficult stuff. Ill be switching to quad bike tommorow to deal with the dunes and the swamp stuff. We will probably be relocating to base 5103 tommroow to cut down on the travel time getting to the work area.

Wed 28-Mar-07 D087

Standby day due to rain

Thu 29-Mar-07 D088

Standby day due to rain

Fri 30-Mar-07 D089

Continued central third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
41	2		43	663	47

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren.

No Production today. Ground was still toot wet for vehicle ops so crew A remained at base to support the quad if required.

Crew B: Chris.

Ground was still a bit soft but not a real problem for the quad. Stayed away from the very wet stuff which should be ok for tommorrow. No problems encountered and all should be all good for normal ops tomorrow.

Sat 31-Mar-07 D090

Completed central third, commenced southern third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
60	4		64	723	51

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren

Found a track that crosses the river so we can get access to the southern part of the grid. No problems today except for stopping work to go help chris with the quad bike.

Crew B: Chris.

Vehicle broken into during the night by smashing a window. It was still locked and nothing was taken.

Work area today was near the river which was very muddy. I managed to get myself out of most boggings with one exception from 10:00 to 11:00 which needed Crew A to help.

Sun 01-Apr-07 D091

Continued southern third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
113	6	2	121	836	59

Nil Safety Incidents

Crew Comments
Crew A: Rowan and Darren

Normal day's operations with no problems.

Crew B: Chris. Sat Phone #0011 881621434971

Once on the other side of the river the going is easier. The whole southern area is flat with no creeks, so we will be able to finish it tomorrow.

Set up new base 0201 late in the day. Gravity tie with both meters to 5103 which we will reinforce with readings on the oodnadata isogal tommorow.
I also did a 40 minute PPI reading on the new base for survey control.
As we only need to use the base tomorrow, we have left a receiver set up and running on the base overnight to provide extra data for AUSPOS.

Mon 02-Apr-07 D092

Continued southern third Oodnadatta Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
91	4		95	927	63

Nil Safety Incidents

Crew A: Rowan and Darren

No problems today. The area was very flat and easy going.

Crew B: Chris. Sat Phone #0011 881621434971

Seismic activity from the Solomon islands earthquake delayed commencment until 11:00 we were still able to finish off the work remaining. High gravity SDs for most of the day.

Filed a police report regarding the broken car window on Friday night.

Tue 03-Apr-07 D093

Commenced Mt Carulina Grid

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
69		21	90	996	84

Nil Safety Incidents

Crew A: Rowan and Darren

Normal day's operation. Going was reasonably good apart from fences.

Crew B: Chris.

Established new base with GPS control from the survey mark 5942.1053. Found the mark without any problems however it was stamped 2713.

Completed all proposed new stations and required repeats. Interrupted by more seismic activity in the morning.

Wed 04-Apr-07 D094

Completed reobs of Mt Carulina old Survey

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
		52	52	996	136

Nil Safety Incidents

Crew A: Rowan and Darren

Normal day's operation. Terrain was ok withy fences.

Crew B: Chris.

Ok today. A few fences on the grid slowed me down some.

Thu 05-Apr-07 D095

Commenced and complteted Oodnadatta Grid Infill

NEW STNS	QA RPTS	PREV SVY RPTS	DAY TOTAL	CUMULATIVE NEW	RPTS
33	11		44	1029	147

Nil Safety Incidents

Crew A: Rowan and Darren

Difficult area today. Bogged for about an hour on one of the points in a soft depression. Reaminder of the eastern 3 points were ok but tough.

Crew B: Chris.

Quad bike was used today for crew B.

Reasonable day with half the points easily accesable. Far western and far eastern points (line 2200) were both in the middle of river systems so I had to wrestle the quad through more mud and the washouts in the area.

Fri 06-Apr-07 D096

Return to Adelaide.

Pt#	Line	Stn	Date	Day	Time	WGS84_Lat	WGS84_Long	WGS84_Ht	AMG84(ZONE53)E	AMG84(ZONE53)N	AHD_Ht	GDA94_Lat	GDA94_Long	MGA94(ZONE53)E	MGA94(ZONE53)N	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)
202	0	202	3/04/2007	93	8:05:50	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.45	0.038	-0.063	0	3498.45	0	979078.635	-56.103	39.061	-14.164
202	0	202	3/04/2007	93	8:08:17	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.45	0.037	-0.061	0	3498.45	0	979078.635	-56.103	39.061	-14.164
202	0	202	3/04/2007	93	14:23:04	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.482	0.06	0.048	-0.032	3498.45	0	979078.635	-56.103	39.061	-14.164
202	0	202	3/04/2007	93	14:25:36	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.482	0.054	0.047	0	3498.482	0	979078.635	-56.103	39.061	-14.164
9271003	927	1003	3/04/2007	93	14:11:12	-27 31 02.32661	135 21 20.77738	129.1	535006.396	6956043.514	121.997	-27 31 02.32504	135 21 20.76585	535134.794	6956215.127	403244	3500.284	0.039	0.055	-0.031	3500.253	-1.803	979080.438	-54.469	37.648	-13.651
9421005	942	1005	3/04/2007	93	14:05:30	-27 31 35.04940	135 21 22.30248	127.423	535045.342	6955036.544	120.325	-27 31 35.04780	135 21 22.29114	535173.745	6955208.157	403244	3506.138	0.036	0.058	-0.031	3506.107	-7.657	979086.292	-49.288	37.132	-13.464
10041008	1004	1008	3/04/2007	93	13:56:20	-27 32 24.73214	135 21 23.25653	133.648	535067.116	6953507.774	126.561	-27 32 24.73051	135 21 23.24545	535195.526	6953679.388	403244	3509.738	0.035	0.063	-0.03	3509.708	-11.258	979089.893	-46.708	39.057	-14.162
10101009	1010	1009	3/04/2007	93	13:49:09	-27 32 39.85438	135 21 19.03383	135.709	534949.965	6953042.809	128.628	-27 32 39.85272	135 21 19.02283	535078.377	6953214.423	403244	3510.524	0.031	0.066	-0.029	3510.495	-12.045	979090.68	-46.232	39.695	-14.393
10171010	1017	1010	3/04/2007	93	13:44:44	-27 32 58.26565	135 21 21.78657	141.841	535023.834	6952476.092	134.764	-27 32 58.26397	135 21 21.77566	535152.248	6952647.707	403244	3510.126	0.03	0.067	-0.029	3510.097	-11.647	979090.282	-47.009	41.588	-15.08
10291012	1029	1012	3/04/2007	93	13:36:14	-27 33 28.99379	135 21 20.06449	138.64	534973.892	6951530.747	131.572	-27 33 28.99199	135 21 20.05369	535102.309	6951702.365	403244	3511.642	0.024	0.071	-0.028	3511.614	-13.164	979091.799	-46.124	40.603	-14.723
35505060	3550	5060	3/04/2007	93	13:29:38	-27 33 57.36332	135 21 38.41456	137.014	535474.559	6950656.382	129.944	-27 33 57.36137	135 21 38.40387	535602.979	6950828.005	403244	3510.979	0.036	0.073	-0.027	3510.952	-12.502	979091.137	-47.369	40.101	-14.541
35505140	3550	5140	3/04/2007	93	13:25:04	-27 33 32.26710	135 21 37.61818	135.142	535454.969	6951428.638	128.066	-27 33 32.26524	135 21 37.60739	535583.387	6951600.258	403244	3511.741	0.034	0.074	-0.027	3511.714	-13.264	979091.899	-46.091	39.521	-14.331
35505220	3550	5220	3/04/2007	93	13:20:35	-27 33 06.19284	135 21 38.05395	133.522	535469.255	6952230.888	126.439	-27 33 06.19108	135 21 38.04308	535597.67	6952402.506	403244	3511.574	0.062	0.076	-0.027	3511.547	-13.097	979091.732	-45.722	39.019	-14.148
35505300	3550	5300	3/04/2007	93	13:15:46	-27 32 39.81252	135 21 38.31356	135.75	535478.737	6953042.569	128.66	-27 32 39.81080	135 21 38.30256	535607.149	6953214.185	403244	3509.604	0.046	0.077	-0.026	3509.578	-11.128	979089.763	-47.148	39.704	-14.397
35505380	3550	5380	3/04/2007	93	13:10:42	-27 32 13.96228	135 21 38.33989	129.47	535481.774	6953837.957	122.373	-27 32 13.96059	135 21 38.32875	535610.182	6954009.573	403244	3509.329	0.061	0.078	-0.026	3509.303	-10.853	979089.488	-46.892	37.764	-13.694
35505460	3550	5460	3/04/2007	93	13:06:28	-27 31 48.25272	135 21 37.32011	126.108	535456.103	6954629.099	119.006	-27 31 48.25106	135 21 37.30882	535584.508	6954800.714	403244	3508.053	0.041	0.079	-0.025	3508.028	-9.578	979088.213	-47.638	36.725	-13.317
35505540	3550	5540	3/04/2007	93	13:01:47	-27 31 21.90729	135 21 37.54297	127.762	535464.573	6955439.707	120.654	-27 31 21.90563	135 21 37.53155	535592.974	6955611.322	403244	3503.248	0.045	0.08	-0.025	3503.223	-4.773	979083.408	-51.902	37.234	-13.501
35505610	3550	5610	3/04/2007	93	12:57:42	-27 30 59.31267	135 21 38.11067	130.251	535482.168	6956134.877	123.139	-27 30 59.31103	135 21 38.09915	535610.566	6956306.492	403244	3499.341	0.049	0.08	-0.025	3499.316	-0.866	979079.501	-55.344	38.001	-13.779
35905100	3590	5100	3/04/2007	93	12:20:38	-27 33 44.44516	135 21 52.81994	132.278	535870.736	6951052.708	125.199	-27 33 44.44319	135 21 52.80919	535999.155	6951224.331	403244	3511.586	0.018	0.081	-0.022	3511.564	-13.114	979091.749	-46.492	38.636	-14.01
35905180	3590	5180	3/04/2007	93	12:25:13	-27 33 17.80267	135 21 53.17200	133.29	535882.805	6951872.449	126.203	-27 33 17.80080	135 21 53.16117	536011.221	6952044.07	403244	3511.149	0.056	0.081	-0.022	3511.127	-12.677	979091.312	-46.381	38.946	-14.122
35905260	3590	5260	3/04/2007	93	12:30:24	-27 32 51.85869	135 21 54.00359	137.903	535907.962	6952670.658	130.809	-27 32 51.85690	135 21 53.99265	536036.376	6952842.276	403244	3509.282	0.033	0.081	-0.022	3509.26	-10.81	979089.445	-47.714	40.368	-14.637
35905340	3590	5340	3/04/2007	93	12:34:27	-27 32 27.37636	135 21 53.48366	132.174	535895.921	6953424.001	125.073	-27 32 27.37460	135 21 53.47259	536024.331	6953595.619	403244	3508.923	0.059	0.081	-0.023	3508.9	-10.45	979089.085	-47.57	38.598	-13.996
35905420	3590	5420	3/04/2007	93	12:38:52	-27 32 00.91341	135 21 52.34228	127.227	535867.011	6954238.336	120.119	-27 32 00.91167	135 21 52.33106	535995.418	6954409.953	403244	3508.901	0.096	0.082	-0.023	3508.878	-10.428	979089.063	-47.048	37.069	-13.441
35905500	3590	5500	3/04/2007	93	12:43:24	-27 31 35.09633	135 21 52.66011	126.543	535878.065	6955032.679	119.431	-27 31 35.09462	135 21 52.64875	536006.468	6955204.296	403244	3505.901	0.062	0.081	-0.023	3505.878	-7.428	979086.063	-49.518	36.856	-13.364
35905580	3590	5580	3/04/2007	93	12:47:58	-27 31 09.49591	135 21 52.37069	130.171	535872.443	6955820.405	123.054	-27 31 09.49419	135 21 52.35923	536000.842	6955992.021	403244	3500.954	0.038	0.081	-0.024	3500.93	-2.48	979081.115	-53.939	37.974	-13.77
35905660	3590	5660	3/04/2007	93	12:52:21	-27 30 43.42196	135 21 52.53644	130.84	535879.348	6956622.662	123.718	-27 30 43.42029	135 21 52.52483	536007.744	6956794.278	403244	3497.847	0.049	0.081	-0.024	3497.823	0.627	979078.008	-56.511	38.179	-13.844
36305140	3630	5140	3/04/2007	93	12:13:53	-27 33 32.05962	135 22 08.18262	133.404	536293.142	6951432.554	126.314	-27 33 32.05764	135 22 08.17183	536421.56	6951604.178	403244	3510.409	0.05	0.08	-0.021	3510.388	-11.938	979090.573	-47.413	38.981	-14.134
36305220	3630	5220	3/04/2007	93	12:09:05	-27 33 06.43342	135 22 08.26796	129.365	536297.831	6952221.046	122.267	-27 33 06.43153	135 22 08.25707	536426.246	6952392.667	403244	3511.269	0.041	0.079	-0.021	3511.248	-12.798	979091.433	-46.026	37.732	-13.682
36305300	3630	5300	3/04/2007	93	12:03:25	-27 32 39.42369	135 22 06.62887	134.617	536255.352	6953052.248	127.513	-27 32 39.42186	135 22 06.61786	536383.764	6953223.867	403244	3508.868	0.032	0.078	-0.02	3508.848	-10.398	979089.033	-47.87	39.351	-14.269
36305380	3630	5380	3/04/2007	93	11:58:58	-27 32 13.76411	135 22 07.58441	128.595	536283.908	6953841.694	121.484	-27 32 13.76231	135 22 07.57325	536412.317	6954013.313	403244	3508.94	0.053	0.077	-0.02	3508.92	-10.47	979089.105	-47.271	37.49	-13.594
36305460	3630	5460	3/04/2007	93	11:54:21	-27 31 47.80285	135 22 07.04763	125.214	536271.561	6954640.544	118.098	-27 31 47.80106	135 22 07.03634	536399.966	6954812.163	403244	3508.453	0.06	0.075	-0.019	3508.434	-9.984	979088.619	-47.223	36.445	-13.215
36705100	3670	5100	3/04/2007	93	11:14:53	-27 33 45.18503	135 22 21.30664	134.149	536651.821	6951027.617	127.056	-27 33 45.18297	135 22 21.29589	536780.24	6951199.243	403244	3509.161	0.041	0.061	-0.016	3509.145	-10.695	979089.33	-48.926	39.209	-14.218
36705180	3670	5180	3/04/2007	93	11:19:13	-27 33 20.01266	135 22 21.38914	132.449	536656.414	6951802.146	125.349	-27 33 20.01067	135 22 21.37832	536784.831	6951973.77	403244	3510.014	0.031	0.063	-0.016	3509.998	-11.548	979090.183	-47.555	38.683	-14.027
36705260	3670	5260	3/04/2007	93	11:23:28	-27 32 51.93829	135 22 22.45329	127.573	536688.196	6952665.885	120.465	-27 32 51.93639	135 22 22.44233	536816.61	6952837.506	403244	3510.627	0.035	0.064	-0.017	3510.61	-12.16	979090.795	-46.365	37.175	-13.48
36705340	3670	5340	3/04/2007	93	11:28:38	-27 32 27.76600	135 22 22.70692	129.188	536697.391	6953409.626	122.074	-27 32 27.76413	135 22 22.69584	536825.802	6953581.247	403244	3508.475	0.102	0.067	-0.017	3508.458	-10.008	979088.643	-48.02	37.672	-13.66
36705420	3670	5420	3/04/2007	93	11:33:19	-27 32 01.01717	135 22 21.35523	125.136	536662.793	6954232.777	118.016	-27 32 01.01532	135 22 21.34403	536791.2	6954404.398	403244	3508.908	0.039	0.069	-0.018	3508.89	-10.44	979089.075	-47.038	36.42	-13.206
36705500	3670	5500	3/04/2007	93	11:37:34	-27 31 35.43370	135 22 21.27854	125.128	536663.055	6955019.965	118.003	-27 31 35.43187	135 22 21.26719	536791.458	6955191.585	403244	3507.28	0.044	0.07	-0.018	3507.262	-8.812	979087.447	-48.141	36.416	-13.205
36705580	3670	5580	3/04/2007	93	11:41:47	-27 31 09.41172	135 22 21.35210	130.174	536667.479	6955820.632	123.044	-27 31 09.40991	135 22 21.34062	536795.879	6955992.252	403244	3502.478	0.035	0.072	-0.018	3502.46	-4.01	979082.645	-52.408	37.971	-13.769
36705660	3670	5660	3/04/2007	93	11:46:20	-27 30 43.74035	135 22 21.01043	129.721	536660.479	6956610.545	122.586	-27 30 43.73855	135 22 20.99883	536788.875	6956782.164	403244	3499.646	0.043	0.073	-0.019	3499.627	-1.177	979079.812	-54.713	37.83	-13.717
37105060	3710	5060	3/04/2007	93	11:10:24	-27 33 57.93725	135 22 36.46292	139.729	537066.237	6950633.983	132.632	-27 33 57.93508	135 22 36.45221	537194.657	6950805.612	403244	3506.766	0.042	0.058	-0.016	3506.75	-8.3	979086.935	-51.583	40.93	-14.841
37105140	3710	5140	3/04/2007	93	11:05:55	-27 33 31.55757	135 22 36.73451	133.14	537076.155	6951445.644	126.036	-27 33 31.55550	135 22 36.72373	537204.573	6951617.271	403244	3508.974	0.034	0.056	-0.015	3508.959	-10.509	979089.144	-48.831	38.895	-14.103
37105220	3710	5220	3/04/2007	93	11:01:03	-27 33 06.25381	135 22 36.35374	128.647	537068.081	6952224.254	121.536	-27 33 06.25182	135 22 36.34285	537196.496	6952395.878	403244	3510.233	0.067	0.053	-0.015	3510.218	-11.768	979090.403	-47.052	37.506	-13.6
37105300	3710	5300	3/04/2007	93	10:56:02	-27 32 39.87378	135 22 35.89297	126.618	537057.912	6953035.985	119.501	-27 32 39.87186	135 22 35.88195	537186.324	6953207.608	403244	3509.227	0.041	0.05	-0.014	3509.213	-10.763	979089.398	-47.514	36.878	-13.372
37105380	3710	5380	3/04/2007	93	10:49:39	-27 32 12.73056	135 22 36.19364	126.071	537068.697	6953871.135	118.946	-27 32 12.72866	135 22 36.18247	537197.106	6954042.757	403244	3507.94	0.063	0.047	-0.014	3507.926	-9.476	979088.111	-48.243	36.707	-13.31
37505020	3750	5020	3/04/2007	93	10:06:29	-27 34 09.57034	135 22 50.79043	134.904	537458.007	6950274.838	127.804	-27 34 09.56811	135 22 50.77974	537586.428	6950446.469	403244	3507.143	0.097	0.018	-0.01	3507.133	-8.683	979087.318	-51.44	39.44	-14.301
37505100	3750	5100	3/04/2007	93	10:11:44	-27 33 45.30916	135 22 50.79374	138.03	537460.394	6951021.338	130.922	-27 33 45.30700	135 22 50.78299	537588.813	6951192.967	403244	3506.998	0.085	0.022	-0.011	3506.987	-8.537	979087.172	-51.086	40.403	-14.65
37505180	3750	5180	3/04/2007	93	10:17:37	-27 33 19.62216	135 22 51.51777	131.849	537482.679	6951811.648	124.735	-27 33 19.62006	135 22 51.50691	537611.096	6951983.275	403244	3508.859	0.091	0.026	-0.011	3508.848	-10.398	979089.033	-48.697	38.493	-13.958
37505260	3750	5260	3/04/2007	93	10:21:53	-27 32 52.65485	135 22 50.28459	126.253	537451.411	6952641.515	119.132	-27 32 52.65286	135 22 50.27365	537579.825	6952813.14	403244	3509.328	0.098	0.029	-0.011	3509.317	-10.867	979089.502	-47.673	36.764	-13.331
37505340	3750	5340	3/04/2007	93	10:27:16	-27 32 27.54599	135 22 51.48088	125.303	537486.595	6953413.995	118.175	-27 32 27.54400	135 22 51.46981	537615.006	6953585.619	403244	3507.972	0.073	0.032	-0.012	3507.96	-9.51	979088.145	-48.514	36.469	-13.224
37505420	3750	5420	3/04/2007	93	10:31:39	-27 32 01.48214	135 22 51.24385	124.049	537482.559	6954215.978	116.915	-27 32 01.48019	135 22 51.23265	537610.966	6954387.602	403244	3507.368	0.045	0.036	-0.012	3507.356	-8.906	979087.541	-48.582	36.08	-13.083
37505500	3750	5500	3/04/2007	93	10:35:40	-27 31 35.57482	135 22 50.84428	125.396	537474.048	6955013.159	118.257	-27 31 35.57286	135 22 50.83295	537602.451	6955184.782	403244	3506.488	0.047	0.038	-0.013	3506.475	-8.025	979086.66	-48.93	36.494	-13.233
37505580	3750	5580	3/04/2007	93	10:39:26	-27 31 09.62799	135 22 50.73671	129.768	537473.549	6955811.529	122.624	-27 31 09.62607	135 22 50.72524	537601.949	6955983.152	403244	3503.892	0.046	0.04	-0.013	3503.879	-5.429	979084.064	-50.993	37.842	-13.722
38305020	3830	5020	3/04/2007	93	10:00:59	-27 34 09.89677	135 23 20.48838	125.835	538272.293	6950262.263	118.72	-27 34 09.89442	135 23 20.47770	538400.714	6950433.897	403244	3508.829	0.077	0.014	-0.01	3508.819	-10.369	979089.004	-49.76	36.637	-13.285
38305100	3830	5100	3/04/2007	93	9:56:33	-27 33 44.58924	135 23 20.16042	129.574	538265.746	6951040.987	122.453	-27 33 44.58697	135 23 20.14964	538394.165	6951212.619	403244	3508.176	0.069	0.011	-0.009	3508.167	-9.717	979088.352	-49.892	37.789	-13.702
38305180	3830	5180	3/04/2007	93	9:52:00	-27 33 19.55996	135 23 20.24792	130.736	538270.565	6951811.113	123.609	-27 33 19.55776	135 23 20.23709	538398.982	6951982.743	403244	3507.708	0.071	0.008	-0.009	3507.699	-9.249	979087.884	-49.845	38.146	-13.832
38305260	3830	5260	3/04/2007	93	9:46:52	-27 32 52.38097	135 23 20.04825	127.768	538267.714	6952647.408	120.634	-27 32 52.37883	135 23 20.03729	538396.128	6952819.036	403244	3507.519	0.082	0.004	-0.008	3507.511	-9.061	979087.696	-49.474	37.228	-13.499
38305340	3830	5340	3/04/2007	93	9:37:35	-27 32 25.90570	135 23 19.87898	123.49	538265.628	6953462.046	116.349	-27 32 25.90360	135 23 19.86787	538394.039	6953633.674	403244	3507.976	0.091	-0.003	-0.008	3507.968	-9.518	979088.153	-48.472	35.905	-13.019
38305420	3830	5420	3/04/2007	93	9:31:55	-27 32 01.43635	135 23 19.51572	124.076	538258.027	6954214.979	116.929	-27 32 01.43430	135 23 19.50451	538386.434	6954386.606	403244	3506.78	0.119	-0.007	-0.007	3506.773	-8.323	979086.958	-49.164	36.084	-13.084
38305500	3830	5500	3/04/2007	93	9:00:52	-27 31 34.69358	135 23 19.81557	128.442	538268.833	6955037.807	121.29	-27 31 34.69153	135 23 19.80423	538397.237	6955209.434	403244	3505.205	0.132	-0.029	-0.004	3505.201	-6.751	979085.386	-50.186	37.43	-13.572
38305580	3830	5580	3/04/2007	93	8:53:11	-27 31 09.68568	135 23 20.03476	127.921	538277.259	6955807.26	120.764	-27 31 09.68364	135 23 20.02330	538405.659	6955978.886	403244	3504.731	0.043	-0.035	-0.004	3504.727	-6.277	979084.912	-50.146	37.268	-13.513
202	0	202	3/04/2007	93	10:51:30	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3940.03	0.063	0.047	-0.001	3940.029	0.001	979078.634	-56.104	39.061	-14.164
202	0	202	3/04/2007	93	10:48:30	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3940.03	0.083	0.044	0	3940.03	0	979078.635	-56.103	39.061	-14.164
202	0	202	3/04/2007	93	14:46:30	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3940.07	0.038	0.031	-0.04	3940.03	0	979078.635	-56.103	39.061	-14.164
202	0	202	3/04/2007	93	14:44:30	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3940.07	0.037	0.033	-0.04	3940.03	0	979078.635	-56.103	39.061	-14.164
12011011	1201	1011	3/04/2007	93	11:19:30	-27 31 04.93612	135 19 32.30423	134.722	532030.462	6955971.397	127.671	-27 31 04.93471	135 19 32.29287	532158.863	6956143.005	601307	3947.995	0.039	0.069	-0.005	3947.99	-7.96	979086.595	-48.366	39.399	-14.286
12141012	1214	1012	3/04/2007	93	13:26:30	-27 31 03.30628	135 20 07.37379	133.84	532992.647	6956018.982	126.771	-27 31 03.30482	135 20 07.36235	533121.047	6956190.591	601307	3947.03	0.031	0.066	-0.027	3947.003	-6.973	979085.608	-49.319	39.122	-14.186
12241014	1224	1014	3/04/2007	93	13:49:30	-27 31 03.58978	135 20 44.89511	133.613	534021.936	6956007.432	126.527	-27 31 03.58829	135 20 44.88364	534150.335	6956179.042	601307	3944.052	0.039	0.055	-0.03	3944.022	-3.992	979082.627	-52.306	39.046	-14.158
12351014	1235	1014	3/04/2007	93	14:01:30	-27 31 35.64678	135 20 44.19279	128.636	533999.92	6955021.122	121.557	-27 31 35.64528	135 20 44.18147	534128.323	6955192.732	601307	3951.508	0.054	0.047	-0.032	3951.476	-11.446	979090.081	-45.511	37.512	-13.602
12421015	1242	1015	3/04/2007	93	13:16:30	-27 31 35.88578	135 20 07.79918	131.374	533001.604	6955016.51	124.312	-27 31 35.88436	135 20 07.78788	533130.008	6955188.118	601307	3952.184	0.025	0.068	-0.025	3952.159	-12.129	979090.764	-44.833	38.363	-13.91
12501016	1250	1016	3/04/2007	93	11:30:30	-27 31 35.15963	135 19 30.26485	138.861	531972.078	6955041.596	131.816	-27 31 35.15826	135 19 30.25360	532100.483	6955213.203	601307	3950.024	0.035	0.072	-0.007	3950.017	-9.987	979088.622	-46.96	40.678	-14.75
12591017	1259	1017	3/04/2007	93	11:43:30	-27 32 08.55575	135 19 31.95590	141.881	532015.766	6954013.908	134.843	-27 32 08.55439	135 19 31.94479	532144.174	6954185.513	601307	3952.975	0.032	0.078	-0.009	3952.966	-12.936	979091.571	-44.697	41.613	-15.089
13061018	1306	1018	3/04/2007	93	13:03:30	-27 32 08.14952	135 20 07.70919	136.887	532996.45	6954023.792	129.832	-27 32 08.14809	135 20 07.69808	533124.858	6954195.4	601307	3953.688	0.034	0.074	-0.023	3953.665	-13.635	979092.27	-43.99	40.066	-14.528
13521028	1352	1028	3/04/2007	93	13:36:30	-27 30 46.90751	135 20 26.34903	135.673	533514.576	6956522.137	128.592	-27 30 46.90604	135 20 26.33749	533642.973	6956693.747	601307	3941.472	0.035	0.063	-0.028	3941.444	-1.414	979080.049	-54.541	39.683	-14.389
14011024	1401	1024	3/04/2007	93	12:38:30	-27 33 12.75669	135 20 08.32616	148.616	533007.987	6952035.839	141.579	-27 33 12.75520	135 20 08.31532	533136.403	6952207.448	601307	3952.696	0.049	0.08	-0.018	3952.678	-12.648	979091.283	-46.306	43.691	-15.843
14101025	1410	1025	3/04/2007	93	12:51:30	-27 32 42.64105	135 20 08.11255	141.98	533004.639	6952962.488	134.934	-27 32 42.63963	135 20 08.10158	533133.051	6953134.095	601307	3953.84	0.046	0.077	-0.021	3953.819	-13.789	979092.424	-44.545	41.641	-15.099
14201026	1420	1026	3/04/2007	93	11:55:30	-27 32 41.08929	135 19 32.05281	147.151	532015.794	6953012.873	140.123	-27 32 41.08798	135 19 32.04183	532144.206	6953184.477	601307	3952.543	0.018	0.081	-0.011	3952.532	-12.502	979091.137	-45.8	43.242	-15.68
14281027	1428	1027	3/04/2007	93	12:08:30	-27 33 13.00163	135 19 31.97899	165.235	532011.19	6952030.963	158.216	-27 33 13.00025	135 19 31.96817	532139.605	6952202.569	601307	3948.824	0.033	0.081	-0.013	3948.811	-8.781	979087.416	-50.178	48.825	-17.704
16321054	1632	1054	3/04/2007	93	12:24:30	-27 33 30.17737	135 19 50.96295	163.867	532530.39	6951501.101	156.844	-27 33 30.17582	135 19 50.95218	532658.807	6951672.711	601307	3949.69	0.038	0.081	-0.016	3949.674	-9.644	979088.279	-49.668	48.402	-17.551
17361064	1736	1064	3/04/2007	93	11:07:30	-27 30 48.76507	135 19 48.96101	139.744	532488.726	6956467.756	132.681	-27 30 48.76362	135 19 48.94955	532617.125	6956639.365	601307	3943.637	0.041	0.061	-0.003	3943.634	-3.604	979082.239	-52.389	40.945	-14.847
32105150	3210	5150	3/04/2007	93	12:15:30	-27 33 29.53717	135 19 34.41115	169.336	532076.549	6951522.003	162.321	-27 33 29.53568	135 19 34.40040	532204.966	6951693.612	601307	3948.545	0.096	0.082	-0.015	3948.53	-8.5	979087.135	-50.799	50.092	-18.164
32105250	3210	5250	3/04/2007	93	12:01:30	-27 32 56.92508	135 19 33.96826	152.973	532067.045	6952525.482	145.948	-27 32 56.92375	135 19 33.95736	532195.459	6952697.086	601307	3951.52	0.056	0.081	-0.012	3951.508	-11.478	979090.113	-47.15	45.04	-16.332
32105350	3210	5350	3/04/2007	93	11:49:30	-27 32 24.35480	135 19 34.19458	140.254	532075.89	6953527.624	133.22	-27 32 24.35346	135 19 34.18355	532204.3	6953699.229	601307	3953.509	0.041	0.079	-0.01	3953.499	-13.469	979092

Pt#	Line	Stn	Date	Day	Time	WGS84_Lat	WGS84_Long	WGS84_Ht	AMG84(ZONE53)E	AMG84(ZONE53)N	AHD_Ht	GDA94_Lat	GDA94_Long	MGA94(ZONE53)E	MGA94(ZONE53)N	Meter_Ser_No	Meter_Rdg	Meter_Error	ETC	Drift	Corr_Meter	dg	Obs_g	Anom	Freeair	Bouguer(2.67)
33105350	3310	5350	3/04/2007	93	12:56:30	-27 32 24.09195	135 20 10.39009	137.92	533068.651	6953533.058	130.868	-27 32 24.09053	135 20 10.37903	533197.061	6953704.666	601307	3954.296	0.062	0.076	-0.022	3954.274	-14.244	979092.879	-43.709	40.386	-14.644
33105450	3310	5450	3/04/2007	93	13:09:30	-27 31 51.67098	135 20 10.23869	137.068	533067.204	6954530.633	130.008	-27 31 51.66955	135 20 10.22747	533195.61	6954702.241	601307	3952.375	0.024	0.071	-0.024	3952.351	-12.321	979090.956	-44.965	40.12	-14.548
33105550	3310	5550	3/04/2007	93	13:21:30	-27 31 19.26840	135 20 10.18970	131.956	533068.564	6955527.634	124.889	-27 31 19.26694	135 20 10.17834	533196.966	6955699.243	601307	3949.957	0.03	0.067	-0.026	3949.931	-9.901	979088.536	-46.719	38.541	-13.975
33105650	3310	5650	3/04/2007	93	13:31:30	-27 30 46.48767	135 20 10.17341	138.324	533070.851	6956536.266	131.25	-27 30 46.48620	135 20 10.16190	533199.249	6956707.876	601307	3941.893	0.053	0.063	-0.027	3941.866	-1.836	979080.471	-54.111	40.504	-14.687
34105150	3410	5150	3/04/2007	93	14:23:30	-27 33 29.19909	135 20 47.34358	144.168	534076.579	6951526.973	137.116	-27 33 29.19741	135 20 47.33282	534204.996	6951698.588	601307	3953.123	0.06	0.048	-0.036	3953.087	-13.057	979091.692	-46.235	42.314	-15.343
34105250	3410	5250	3/04/2007	93	14:18:30	-27 32 56.66541	135 20 46.82307	136.783	534065.103	6952528.048	129.723	-27 32 56.66388	135 20 46.81214	534193.517	6952699.659	601307	3954.358	0.078	0.022	-0.035	3954.323	-14.293	979092.928	-44.33	40.033	-14.516
34105350	3410	5350	3/04/2007	93	14:13:30	-27 32 24.28781	135 20 46.74983	133.432	534065.879	6953524.285	126.363	-27 32 24.28630	135 20 46.73875	534194.289	6953695.896	601307	3953.905	0.066	0.024	-0.034	3953.871	-13.841	979092.476	-44.116	38.996	-14.14
34105450	3410	5450	3/04/2007	93	14:07:30	-27 31 52.01393	135 20 46.48168	130.373	534061.299	6954517.344	123.295	-27 31 52.01244	135 20 46.47045	534189.704	6954688.954	601307	3952.745	0.038	0.031	-0.033	3952.712	-12.682	979091.317	-44.611	38.049	-13.797
34105550	3410	5550	3/04/2007	93	13:56:30	-27 31 19.37607	135 20 46.83360	129.6	534073.757	6955521.554	122.516	-27 31 19.37459	135 20 46.82219	534202.158	6955693.164	601307	3948.209	0.06	0.048	-0.032	3948.177	-8.147	979086.782	-48.475	37.808	-13.71
34105650	3410	5650	3/04/2007	93	13:43:30	-27 30 46.61637	135 20 46.65465	133.591	534071.663	6956529.552	126.501	-27 30 46.61490	135 20 46.64308	534200.06	6956701.162	601307	3940.524	0.036	0.058	-0.029	3940.495	-0.465	979079.1	-55.484	39.038	-14.155
202	0	202	4/04/2007	94	9:19:51	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.565	0.052	-0.039	0	3498.565	0	979078.635	-56.103	39.061	-14.164
202	0	202	4/04/2007	94	9:22:30	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.565	0.034	-0.037	0	3498.565	0	979078.635	-56.103	39.061	-14.164
202	0	202	4/04/2007	94	13:17:11	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.606	0.046	0.064	-0.041	3498.565	0	979078.635	-56.103	39.061	-14.164
202	0	202	4/04/2007	94	13:19:38	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	403244	3498.606	0.038	0.064	0	3498.606	0	979078.635	-56.103	39.061	-14.164
9121000	912	1000	4/04/2007	94	9:58:35	-27 30 31.08063	135 21 19.97897	131.778	534987.25	6957004.986	124.668	-27 30 31.07907	135 21 19.96730	535115.644	6957176.598	403244	3496.475	0.085	-0.015	-0.006	3496.469	2.096	979076.539	-57.726	38.473	-13.95
9181001	918	1001	4/04/2007	94	10:04:35	-27 30 45.89463	135 21 20.46004	131.364	534999.141	6956549.136	124.257	-27 30 45.89305	135 21 20.44844	535127.537	6956720.748	403244	3497.868	0.069	-0.011	-0.007	3497.861	0.704	979077.931	-56.638	38.346	-13.904
9341003	934	1003	4/04/2007	94	10:10:57	-27 31 19.54575	135 21 19.03445	130.952	534957.065	6955513.834	123.853	-27 31 19.54419	135 21 19.02303	535085.466	6955685.447	403244	3502.877	0.052	-0.006	-0.008	3502.869	-4.304	979082.939	-52.322	38.221	-13.859
9501005	950	1005	4/04/2007	94	10:17:22	-27 31 52.36615	135 21 20.00760	128.633	534980.864	6954503.904	121.539	-27 31 52.36454	135 21 19.99635	535109.269	6954675.517	403244	3508.914	0.061	-0.002	-0.01	3508.904	-10.339	979088.974	-46.962	37.507	-13.6
9571006	957	1006	4/04/2007	94	10:22:17	-27 32 07.28819	135 21 20.93448	133.871	535004.97	6954044.693	126.781	-27 32 07.28657	135 21 20.92332	535133.377	6954216.307	403244	3508.919	0.091	0.001	-0.01	3508.909	-10.344	979088.979	-47.263	39.125	-14.187
10191009	1019	1009	4/04/2007	94	11:56:32	-27 30 30.47150	135 20 44.63483	135.933	534017.636	6957026.469	128.84	-27 30 30.47001	135 20 44.62318	534146.03	6957198.079	403244	3496.287	0.058	0.053	-0.027	3496.26	2.305	979076.33	-57.922	39.76	-14.417
10231010	1023	1010	4/04/2007	94	10:32:39	-27 33 13.35336	135 21 22.91652	136.94	535053.488	6952011.766	129.866	-27 33 13.35162	135 21 22.90569	535181.904	6952183.383	403244	3511.895	0.039	0.008	-0.012	3511.883	-13.318	979091.953	-45.648	40.077	-14.532
10361012	1036	1012	4/04/2007	94	10:41:09	-27 33 46.29769	135 21 22.32278	140.19	535034.29	6950998.141	133.126	-27 33 46.29582	135 21 22.31207	535162.709	6951169.761	403244	3511.266	0.046	0.014	-0.014	3511.252	-12.687	979091.322	-46.957	41.083	-14.897
10441013	1044	1013	4/04/2007	94	10:47:00	-27 33 46.97091	135 21 03.99830	146.078	534531.746	6950978.862	139.023	-27 33 46.96909	135 21 03.98760	534660.165	6951150.481	403244	3510.684	0.046	0.017	-0.015	3510.669	-12.104	979090.739	-47.554	42.902	-15.557
10521014	1052	1014	4/04/2007	94	10:53:30	-27 33 29.90668	135 21 03.80386	138.755	534527.902	6951503.93	131.695	-27 33 29.90494	135 21 03.79307	534656.319	6951675.547	403244	3512.409	0.03	0.021	-0.016	3512.393	-13.828	979092.463	-45.479	40.641	-14.737
11031015	1103	1015	4/04/2007	94	10:59:07	-27 33 13.65279	135 21 03.52782	139.979	534521.749	6952004.071	132.915	-27 33 13.65112	135 21 03.51696	534650.165	6952175.686	403244	3511.977	0.029	0.025	-0.017	3511.96	-13.395	979092.03	-45.577	41.018	-14.873
11181016	1118	1016	4/04/2007	94	11:03:24	-27 32 58.91647	135 21 03.24525	142.147	534515.285	6952457.518	135.079	-27 32 58.91485	135 21 03.23436	534643.699	6952629.131	403244	3511.023	0.025	0.027	-0.018	3511.005	-12.44	979091.075	-46.229	41.685	-15.115
11261017	1126	1017	4/04/2007	94	11:07:55	-27 32 42.67308	135 21 03.27283	140.768	534517.457	6952957.311	133.696	-27 32 42.67151	135 21 03.26186	534645.869	6953128.923	403244	3510.541	0.043	0.03	-0.018	3510.523	-11.958	979090.593	-46.377	41.259	-14.961
11321018	1132	1018	4/04/2007	94	11:13:23	-27 32 24.17414	135 21 03.07867	134.238	534513.743	6953526.523	127.161	-27 32 24.17258	135 21 03.06758	534642.153	6953698.135	403244	3511.133	0.024	0.033	-0.019	3511.114	-12.549	979091.184	-45.406	39.242	-14.229
11411019	1141	1019	4/04/2007	94	11:17:44	-27 32 07.68092	135 21 03.96061	131.59	534539.37	6954033.937	124.508	-27 32 07.67935	135 21 03.94944	534667.777	6954205.549	403244	3510.778	0.037	0.035	-0.02	3510.758	-12.193	979090.828	-45.422	38.423	-13.932
11481020	1148	1020	4/04/2007	94	11:24:17	-27 31 51.54686	135 21 02.53602	127.616	534501.7	6954530.478	120.531	-27 31 51.54532	135 21 02.52475	534630.105	6954702.089	403244	3510.401	0.04	0.039	-0.021	3510.38	-11.815	979090.45	-45.469	37.196	-13.487
11541021	1154	1021	4/04/2007	94	11:30:26	-27 31 36.70094	135 21 03.50064	127.908	534529.453	6954987.198	120.819	-27 31 36.69943	135 21 03.48932	534657.856	6955158.809	403244	3508.32	0.062	0.041	-0.022	3508.298	-9.733	979088.368	-47.246	37.285	-13.52
12001022	1200	1022	4/04/2007	94	11:35:28	-27 31 20.31635	135 21 01.91386	130.076	534487.352	6955491.46	122.985	-27 31 20.31485	135 21 01.90245	534615.753	6955663.071	403244	3504.807	0.03	0.044	-0.023	3504.784	-6.219	979084.854	-50.423	37.953	-13.762
12061023	1206	1023	4/04/2007	94	11:40:15	-27 31 04.22192	135 21 02.42373	130.441	534502.739	6955986.631	123.346	-27 31 04.22042	135 21 02.41223	534631.137	6956158.242	403244	3501.695	0.073	0.046	-0.024	3501.671	-3.106	979081.741	-53.205	38.065	-13.802
12131024	1213	1024	4/04/2007	94	11:45:19	-27 30 46.61853	135 21 03.20597	134.092	534525.73	6956528.21	126.994	-27 30 46.61703	135 21 03.19436	534654.126	6956699.821	403244	3497.982	0.037	0.048	-0.025	3497.957	0.608	979078.027	-56.557	39.19	-14.211
12191025	1219	1025	4/04/2007	94	11:49:41	-27 30 33.58519	135 21 01.44225	134.525	534478.477	6956929.37	127.425	-27 30 33.58369	135 21 01.43057	534606.871	6957100.98	403244	3496.351	0.038	0.05	-0.026	3496.325	2.24	979076.395	-57.921	39.323	-14.259
13161018	1316	1018	4/04/2007	94	12:32:05	-27 32 08.50791	135 20 44.26949	129.853	533999.205	6954010.009	122.78	-27 32 08.50640	135 20 44.25835	534127.613	6954181.619	403244	3512.82	0.031	0.062	-0.033	3512.787	-14.222	979092.857	-43.41	37.89	-13.739
13241019	1324	1019	4/04/2007	94	12:39:05	-27 32 40.08151	135 20 44.19039	136.33	533994.326	6953038.523	129.266	-27 32 40.07998	135 20 44.17941	534122.738	6953210.133	403244	3512.563	0.03	0.063	-0.034	3512.529	-13.964	979092.599	-44.318	39.891	-14.465
13311020	1331	1020	4/04/2007	94	12:44:49	-27 33 14.01872	135 20 44.12728	140.068	533989.682	6951994.308	133.014	-27 33 14.01710	135 20 44.11644	534118.098	6952165.921	403244	3512.78	0.032	0.064	-0.035	3512.745	-14.18	979092.815	-44.8	41.048	-14.884
13391021	1339	1021	4/04/2007	94	12:51:02	-27 33 45.28848	135 20 45.71407	148.674	534030.51	6951032.041	141.628	-27 33 45.28670	135 20 45.70336	534158.929	6951203.658	403244	3510.799	0.032	0.064	-0.036	3510.763	-12.198	979090.833	-47.425	43.706	-15.848
13461026	1346	1026	4/04/2007	94	12:01:15	-27 30 30.56516	135 20 26.86670	137.327	533530.159	6957024.936	130.242	-27 30 30.56368	135 20 26.85508	533658.554	6957196.546	403244	3496.785	0.068	0.054	-0.028	3496.757	1.808	979076.827	-57.427	40.193	-14.574
13581028	1358	1028	4/04/2007	94	12:07:16	-27 31 02.84797	135 20 25.21134	133.317	533482.019	6956031.75	126.24	-27 31 02.84652	135 20 25.19989	533610.418	6956203.36	403244	3504.577	0.07	0.056	-0.029	3504.548	-5.983	979084.618	-50.3	38.958	-14.126
14041029	1404	1029	4/04/2007	94	12:12:22	-27 31 20.12935	135 20 25.32433	132.066	533483.659	6955500.01	124.992	-27 31 20.12790	135 20 25.31296	533612.061	6955671.62	403244	3508.141	0.029	0.058	-0.03	3508.111	-9.546	979088.181	-47.092	38.573	-13.987
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202	0	202	4/04/2007	94	9:21:50	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3935.88	0.043	-0.038	0	3935.88	0	979078.635	-56.103	39.061	-14.164
202	0	202	4/04/2007	94	12:53:53	-27 30 54.11665	135 21 57.86903	133.697	536024.672	6956293.166	126.574	-27 30 54.11493	135 21 57.85748	536153.069	6956464.783	601307	3935.9	0.029	0.065	-0.02	3935.88	0	979078.635	-56.103	39.061	-14.164
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Logistics Report

for a

DETAILED AIRBORNE MAGNETIC, RADIOMETRIC AND DIGITAL TERRAIN SURVEY

for the

MT CARULINA AND OODNADATTA PROJECTS

carried out on behalf of

BARRICK GOLD OF AUSTRALIA LIMITED

by

UTS GEOPHYSICS

(UTS Job #A855)

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1 GENERAL SURVEY INFORMATION

UTS Geophysics conducted a low level airborne geophysical survey for the following company:

Barrick Gold of Australia Limited
Level 10, 2 Mills Street
Perth WA 6850

Acquisition for this survey commenced on the 16th January 2007and was completed on the 22nd January 2007. The base location used for operating the aircraft and performing in-field quality control was Oodnadatta, South Australia

2 SURVEY SPECIFICATIONS

The area surveyed was near Oodnadatta in South Australia. The survey was flown using the AMG84 coordinate system (a Universal Transverse Mercator projection) derived from the Australian Geodetic Datum and was contained within zone 53 with a central meridian of 135 degrees. Details of the datum and projection system are provided in Appendix B of this report. Survey boundary coordinates are listed in Appendix C.

The survey data acquisition specifications for each area flown are specified in the following table:

PROJECT NAME	LINE SPACING	LINE DIRECTION	TIE LINE SPACING	TIE LINE DIRECTION	SENSOR HEIGHT	TOTAL LINE KM
Mt Carulina	150m	000 - 180	1500	090 - 270	20m	2,260
Oodnadatta	150m	000 - 180	1500	090 - 270	20m	2,732
TOTAL						**4,992**

The specified sensor height for the magnetic samples is as stated in the above table. This sensor height may be varied where topographic relief or laws pertaining to built up areas do not allow this altitude to be maintained, or where the safety of the aircraft and equipment is endangered.

3 AIRCRAFT AND SURVEY EQUIPMENT

The UTS navigation flight control computer, data acquisition system and geophysical sensors were installed into a specialised geophysical survey aircraft.

The list of geophysical and navigation equipment used for the survey is as follows:

General Survey Equipment

- FU24 – 954 fixed wing survey aircraft.
- UTS proprietory flight planning and survey navigation system.
- UTS proprietory high speed digital data acquisition system.
- Novatel 3951R, 12 channel precision navigation GPS.
- OMNILITE 132 real time differential GPS system.
- UTS LCD pilot navigation display and external track guidance display.
- UTS post mission data verification and processing system.
- Bendix King KRA-405 radar altimeter.

Magnetic Data Acquisition Equipment

- UTS tail stinger magnetometer installation.
- Scintrex Cesium Vapour CS-2 total field magnetometer.
- Fluxgate three component vector magnetometer.
- RMS Aeromagnetic Automatic Digital Compensator (AADC II).
- Diurnal monitoring magnetometer (Scintrex Envimag).

Radiometric Data Acquisition Equipment

- Exploranium GR-820 gamma ray spectrometer.
- Exploranium gamma ray detectors.
- Barometric altimeter (height and pressure measurements).
- Temperature and humidity sensor.

3.1 Survey Aircraft

The aircraft used for this survey was a FU24 – 950 series fixed wing survey aircraft, owned and operated by UTS Geophysics, registration VH-CYU. The specifications are as follows:

Power Plant

- Engine Type — Single engine, Lycoming, IO-720
- Brake Horse Power — 400 bhp
- Fuel Type — AV-GAS



Performance

- Cruise speed — 105 Kn
- Survey speed — 100 Kn
- Stall speed — 45 Kn
- Range — 970 Km
- Endurance (no reserves) — 5.6 hours
- Fuel tank capacity — 490 litres

3.2 Data Positioning and Flight Navigation

Survey data positioning and flight line navigation was derived using real-time differential GPS (Global Positioning System).

Navigation was performed using a UTS designed and built electronic pilot navigation system providing computer controlled digital navigation instrumentation mounted in the cockpit as well as an externally mounted track guidance system.

GPS derived positions were used to provide both aircraft navigation and survey data location information.

The GPS systems used for the survey were:

- Aircraft GPS Model — Novatel 3951R
- Sample rate — 0.5 Seconds (2 Hz)
- GPS satellite tracking channels — 12 parallel
- Typical differentially corrected accuracy — 1-2 metres (horizontal)
3-5 metres (vertical)

3.3 UTS Data Acquisition System and Digital Recording

All geophysical sensor data and positional information measured during the survey was recorded using a UTS developed, high speed, precision data acquisition system. Survey data was downloaded onto magnetic tape on completion of each survey flight.

Instrument synchronisation times were measured and removed in real-time by the UTS data acquisition system.

3.4 Altitude Readings

Accurate survey heights above the terrain were measured using a King radar altimeter installed in the aircraft. The height of each survey data point was measured by the radar altimeter and stored by the UTS data acquisition system.

- Radar altimeter models — King KRA- 405 twin antenna altimeter
- Accuracy — 0.3 metres
- Resolution — 0.1 metres
- Range — 0 - 500 metres
- Sample rate — 0.1 Seconds (10Hz)

The digital terrain model is calculated by subtracting the terrain clearance (radar altimeter) from the GPS height (interpolated to 0.1 Hz), and as such the accuracy is constrained by the differentially corrected GPS position.

3.5 UTS Stinger Mounted Magnetometer System

The installation platform used for the acquisition of magnetic data was a tail mounted stinger. This proprietory stinger system was constructed of carbon fibre and designed for maximum rigidity and stability.

Both the total field magnetometer and three component vector magnetometer were located within the tail stinger.



3.6 Total Field Magnetometer



Total field magnetic data readings for the survey were made using a Scintrex Cesium Vapour CS-2 Magnetometer. This precision sensor has the following specifications:

- Model Scintrex Cesium Vapour CS-2 Magnetometer
- Sample Rate 0.1 seconds (10Hz)
- Resolution 0.001nT
- Operating Range 15,000nT to 100,000nT

3.7 Three Component Vector Magnetometer

Three component vector magnetic data readings for the survey were made using a Develco Fluxgate Magnetometer. This precision sensor has the following specifications:

- Model Develco Fluxgate Magnetometer
- Sample Rate 0.1 seconds (10Hz)
- Resolution 0.1nT
- Operating Range -100,000nT to 100,000nT

3.8 Aircraft Magnetic Compensation

At the start of the survey, the system was calibrated for reduction of magnetic heading error. The heading and manoeuvre effects of the aircraft on the magnetic data was removed using an RMS Automatic Airborne Digital Compensator (AADC II).

Calibration of the aircraft heading effects were measured by flying a series of pitch, roll and yaw manoeuvres at high altitude while monitoring changes in the three axis magnetometer and the effect on total field readings. A 26 term model of the aircraft magnetic noise covering permanent, induced and eddy current fields was determined. These coefficients were then applied to the data collected during the survey in real-time.

UTS static compensation techniques were also employed to reduce the initial magnetic effects of the aircraft upon the survey data.

3.9 Diurnal Monitoring Magnetometer

A base station magnetometer was located in a low gradient area beyond the region of influence of any man made interference to monitor diurnal variations during the survey.

The specifications for the magnetometer used are as follows:



- Model Scintrex Envimag
- Resolution 0.1 nT
- Sample interval 5 seconds (0.2 Hz)
- Operating range 20,000nT to 90,000nT
- Temperature -20^{o}C to +50^{o}C

3.10 Barometric Altitude

An Air DB barometric altimeter was installed in the aircraft so as to record and monitor barometric height and pressure. The data was recorded at 0.10 second intervals and is used for the reduction of the radiometric data.

- Model Air DB barometric altimeter
- Accuracy 2 metres
- Height resolution 0.1 metres
- Height range 0 - 3500 metres
- Maximum operating pressure: 1,300 mb
- Pressure resolution: 0.01 mb
- Sample rate 10 Hz

3.11 Temperature and Humidity

Temperature and humidity measurements were made during the survey at a sample rate of 10Hz. Ambient temperature was measured with a resolution of 0.1 degree Celsius and ambient humidity to a resolution of 0.1 percent.

3.12 Radiometric Data Acquisition

The gamma ray spectrometer used for the survey was capable of recording 256 channels and was self stabilising in order to minimise spectral drift. The detectors used contain thallium activated sodium iodide crystals.

Thorium source measurements were made each survey day to monitor system resolution and sensitivity. A calibration line was also flown at the start and end of each survey day to monitor ground moisture levels and system performance.

Spectrometer model Exploranium GR820

- Detector volume 32 litres
- Sample rate 1 Hz



4 PROJECT MANAGEMENT

Barrick Gold of Australia Limited	Jared Townsend
UTS Geophysics Perth Office	Nino Tufilli David Abbott Barrett Cameron Rebecca Steadman

5 DATA PROCESSING PROCEDURES

5.1 Data Pre-processing

The raw survey data was loaded from the field tapes and the recorded data trimmed to the correct survey boundary extents. Any survey lines subsequently reflown were removed from the dataset.

At the commencement of each acquisition flight, all the instrumentation clocks were synchronized to local time, and the error and latency of each instrument in providing its data measurement calculated. The results of these latency measurements were recorded into a synchronisation file, and the results used to assign GPS positions to the magnetic, radiometric and elevation data. As a result of the physical separation of the sensors, a small residual offset still exists between instrument timings.

To compensate for this residual parallax error, an adjustment was made to the instrument clocks. The magnetic and radar altimeter data was adjusted by 0.600 seconds, and the radiometric data was adjusted by 1.375 seconds for each flight.

The synchronized, parallax corrected data was then exported as located ASCII data.

5.2 Magnetic Data Processing

The diurnal base station data was checked for spikes and steps, and suitably filtered prior to the removal of diurnal variations from the aircraft magnetic data.

The filtered diurnal measurements were subtracted from the diurnal base field and the residual corrections applied to the survey data by synchronising the diurnal data time and the aircraft survey time. The average diurnal base station value was added to the survey data.

The X and Y positioning of the data was then checked for spikes before applying the IGRF correction. Any spikes in the positions were manually edited. The updated IGRF 2005 correction was calculated at each data point (taking into account the height above sea level).

This regional magnetic gradient was subtracted from the survey data points.

Tie line levelling was applied to the data by least squares minimisation, using a polynomial fit of order 0, of the differences in magnetic values at the crossover points of the survey traverse and tie line data.

In order to remove any residual long wavelength variations in the tie line levelled data along the traverse lines, polynomial levelling was then applied.

Final micro-levelling techniques were then selectively applied to the tie line levelled data to remove minor residual variations in profile intensity

Located and gridded data were generated from the final processed magnetic data.

5.3 Radiometric Data Processing

Statistical noise reduction of the 256 channel data was performed using the Maximum Noise Fraction (MNF) method described by Dickson and Taylor (1998). This method constructs a noise covariance model from the survey data, which is then decorrelated and re-scaled so that the model has unit variance and no channel-to-channel correlation.

A principal component transformation of the noise-whitened data is performed, and the number of components to be saved is determined by ranking the eigenvectors by signal-to-noise ratio. The signal-rich components are retained, and the spectral data reconstructed without the noise fraction.

Channels 30-250 only are noise-cleaned, as these contain the regions of interest and are not dominated by the lower end of the Compton continuum. The energy spectrum between the potassium and thorium peaks was recalibrated from the noise-cleaned 256 channel measurements.

The aircraft background spectrum and the scaled unit cosmic spectrum were then subtracted from the 256 channel data. This 256 channel data was then windowed to the 5 primary channels of total count, potassium, uranium, thorium and low-energy uranium. Dead time corrections were then applied to the data. Radon background removal was performed using the Minty Spectral Ratio method (1992).

The radar altimeter data was corrected to standard temperature and pressure, and height corrected spectral stripping was then applied to the windowed data. Height attenuation corrections based on the STP radar altimeter were then performed to remove any altitude variation effects from the data.

The corrected count rate data was then converted to ground concentrations for potassium, uranium and thorium (sensitivity coefficients are supplied in Appendix E).

Final micro-levelling techniques were then selectively applied to the tie line levelled data to remove minor residual variations in profile intensities. Located and gridded data were generated from the final processed radiometric data.

5.4 Digital Terrain Model Data Processing

The radar altimeter data was subtracted from the GPS altimeter data. The separation distance between the GPS antenna and the radar altimeter of 1.4 metres was subtracted from the digital terrain data.

The digital terrain data thus derived was tie line levelled and gridded. Tie line levelled data was then examined and selectively microlevelled to produce a grid without line dependent artifacts.

For further information concerning the survey flown, please contact the following office:

Head Office Address:

UTS Geophysics
Fauntleroy Avenue, Perth Airport
REDCLIFFE WA 6104

Tel: +61 8 9479 4232
Fax: +61 8 9479 7361

Postal Address:

UTS Geophysics
P.O. Box 126
BELMONT WA 6984

Quoting reference number: A855

APPENDIX A - LOCATED DATA FORMATS

MAGNETIC LOCATED DATA

FIELD	FORMAT	DESCRIPTION	UNITS
1	I8	LINE NUMBER	
2	I4	FLIGHT/AREA NUMBER	AAFF (Area/Flight)
3	I9	DATE	YYMMDD
4	F10.1	TIME	sec
5	I8	FIDUCIAL NUMBER	
6	I4	UTM ZONE	
7	F12.2	EASTING (AMG84)	metres
8	F12.2	NORTHING (AMG84)	metres
9	F12.6	LATITUDE (WGS84)	degrees
10	F12.6	LONGITUDE (WGS84)	degrees
11	F12.2	EASTING (MGA94)	metres
12	F12.2	NORTHING (MGA94)	metres
13	F8.1	RADAR ALTIMETER HEIGHT	metres
14	F8.1	GPS HEIGHT (WGS84)	metres
15	F8.1	TERRAIN HEIGHT (WGS84)	metres
16	F10.2	RAW MAGNETIC INTENSITY	nT
17	F10.2	DIURNAL CORRECTION	nT
18	F10.2	IGRF CORRECTION	nT
19	F10.2	DRN AND IGRF CORRECTED TMI	nT
20	F10.2	FINAL TOTAL MAGNETIC INTENSITY	nT

RADIOMETRIC LOCATED DATA

FIELD	FORMAT	DESCRIPTION	UNITS
1	I8	LINE NUMBER	
2	I4	FLIGHT/AREA NUMBER	AAFF (Area/Flight)
3	I9	DATE	YYMMDD
4	F10.1	TIME	sec
5	I8	FIDUCIAL NUMBER	
6	I4	UTM ZONE	
7	F12.2	EASTING (AMG84)	metres
8	F12.2	NORTHING (AMG84)	metres
9	F12.6	LATITUDE (WGS84)	degrees
10	F12.6	LONGITUDE (WGS84)	degrees
11	F12.2	EASTING (MGA94)	metres
12	F12.2	NORTHING (MGA94)	metres
13	F8.1	RADAR ALTIMETER HEIGHT	metres
14	F8.1	GPS HEIGHT (WGS84)	metres
15	I5	LIVE TIME	milli sec
16	F8.1	PRESSURE	hPa
17	F6.1	TEMPERATURE	Degrees Celcius
18	F6.1	HUMIDITY	percent
19	I6	TOTAL COUNT (RAW)	Counts/sec
20	I6	POTASSIUM (RAW)	Counts/sec
21	I6	URANIUM (RAW)	Counts/sec
22	I6	THORIUM (RAW)	Counts/sec
23	I6	COSMIC (RAW)	Counts/sec
24	F8.1	TOTAL COUNT (CORRECTED)	Counts/sec
25	F8.1	POTASSIUM (CORRECTED)	Counts/sec
26	F8.1	URANIUM (CORRECTED)	Counts/sec
27	F8.1	THORIUM (CORRECTED)	Counts/sec
28	F9.4	DOSE RATE	nGy/hr
29	F9.4	POTASSIUM GRND CONCENTRATION	%
30	F9.4	URANIUM GRND CONCENTRATION	ppm
31	F9.4	THORIUM GRND CONCENTRATION	ppm

GRIDDED DATASET FORMATS

Gridding was performed using a bicubic spline algorithm.

The following grid formats have been provided:

- ER-Mapper format

LINE NUMBER FORMATS

Line numbers are identified with a six digit composite line number and have the following format - ALLLLB, where:

A	Survey area number
LLLL	Survey line number
	0001-8999 reserved for traverse lines
	9001-9999 reserved for tie lines
B	Line attempt number, 0 is attempt 1, 1 is attempt 2 etc..

UTS FILE NAMING FORMATS

Located and gridded data provided by UTS Geophysics uses the following 8 character file naming convention to be compatible with PC DOS based systems.

File names have the following general format - JJJJAABB.EEE, where:

JJJJ UTS Job number

AA Area number if the survey is broken into blocks

BB

M	Magnetic data
R	Radiometric data
TC	Total count data
K	Potassium counts
U	Uranium counts
Th	Thorium counts
DT	Digital terrain data

EEE File name extension

LDT	Located digital data file
FMT	Located data format definition file
ERS	Ermapper gridded data header file
	Ermapper data portion has no extension
GRD	Geosoft gridded data file

APPENDIX B - COORDINATE SYSTEM DETAILS

Locations for the survey data are provided in both geographical latitude and longitude and Universal Transverse Mercator metric projection coordinate systems.

AMG84	Australian Map Grid 1984
Coordinate Type	Universal Transverse Mercator Projection Grid
Geodetic datum	Australian Geodetic Datum
Semi Major Axis	6378160m
Flattening	1/298.25

WGS84	World Geodetic System 1984
Coordinate Type	Geographical
Semi Major Axis	6378137m
Flattening	1/298.257223563

MGA94	Map Grid of Australia 1994
Coordinate type	Universal Transverse Mercator Projection Grid
Geodetic datum	Geocentric Datum of Australia
Semi major axis	6378137m
Flattening	1/298.257222101

Oodnadatta Project

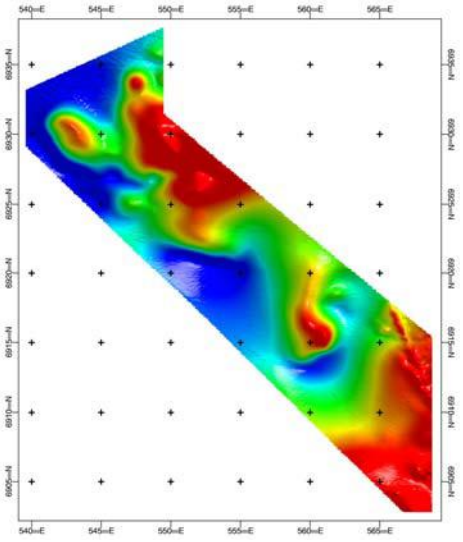
COORDINATES REPORT

Job ID code: A85502
Client: Barrick Gold of Australia Limited
Job: Oodnadatta
Coordinates AMG84 Grid Zone: 53
Include Point: 0.0 0.00

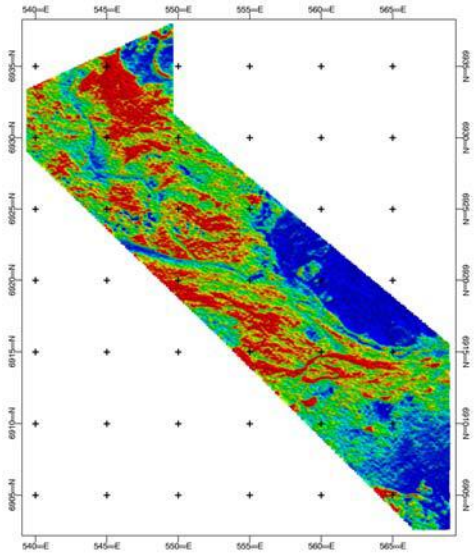
Surround

549600.000	6937800.000
549600.000	6931400.000
568900.000	6915300.000
568900.000	6902800.000
566600.000	6902800.000
552900.000	6916300.000
539500.000	6929200.000
539500.000	6933200.000

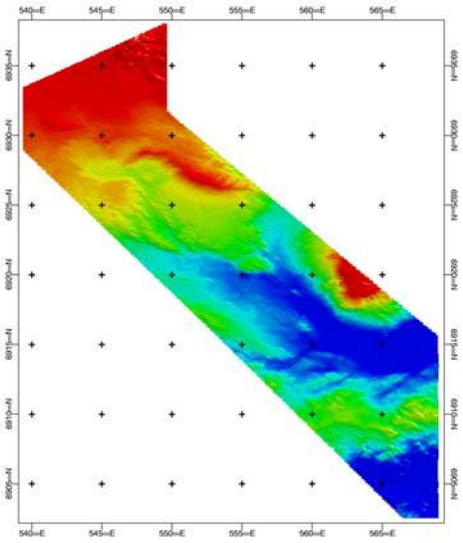
Oodnadatta Project



Total Magnetic Intensity



Radiometric Total Count



Digital Terrain Model

Oodnadatta Project

Magnetic Processing Parameters

IGRF date - 2007.04
IGRF mean value - 55765.53 nT
Magnetic inclination - -60.19 deg
Magnetic declination - 6.09 deg
Diurnal base value - 55650.00 nT

Radiometric Processing Parameters

Height Attenuation Coefficients

Total Count:	-0.0074
Potassium:	-0.0094
Uranium:	-0.0084
Thorium:	-0.0074

Aircraft Background Coefficients

Total Count:	62.96
Potassium:	8.34
Uranium:	2.57
Thorium:	1.11

Cosmic Correction Coefficients

Total Count:	1.051
Potassium:	0.047
Uranium:	0.046
Thorium:	0.055

Sensitivity Coefficients

Total Count:	45.69cps/dose rate
Potassium:	185.54cps/%k
Uranium:	19.44 cps/ppm
Thorium:	9.18 cps/ppm

Final Reduction - All data reduced to STP height datum 20m

BARRICK GOLD OF AUSTRALIA LIMITED

(ABN 19 008 143 137)

PROJECT 5022
OODNADATTA JV PROJECT

EL3835

ANNUAL TECHNICAL REPORT & EXPENDITURE

FOR THE PERIOD

12 July 2007 – 11 July 2008

TECHNICAL REPORT NO. 1278

Map Sheet 250K: SG53-15 (Oodnadatta)
Map Sheet 100K: 6042

DISTRIBUTION:

1. BGAL Perth 5022.310
2. BGAL Archive 5022.310
3. Integra Mining Ltd
4. Primary Industry and Resources – South Australia PIRSA

Stephen Brown

Project Geologist
August, 2008

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2. Project Location
3. Tenements

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2. Petrology Reports
3. Expenditure Statement

1.0 SUMMARY

This report details the exploration activities completed within the Oodnadatta JV project, from 12 July 2007 to 11 July 2008.

The exploration work during this period was conducted by Barrick Gold of Australia Limited and involved a two hole MRD (mud-rotary diamond) drilling program targeting gravity (+-magnetic) anomalies that possibly represent buried IOCG-type mineralised systems. These activities are summarised in Table 1 and illustrated in Figure 1.

Results from the drilling program were mixed with the first hole failing to reach crystalline basement or explain the source of the gravity anomaly. A second hole targeting a separate gravity anomaly intersected a relatively dense, thick sedimentary basin-fill sequence. Density measurements collected from the core suggest this may be the source of the gravity anomaly whereby the relatively dense sediments intersected, represent a thick package of uplifted (horst block) older sediments within a package of less dense, younger sediments.

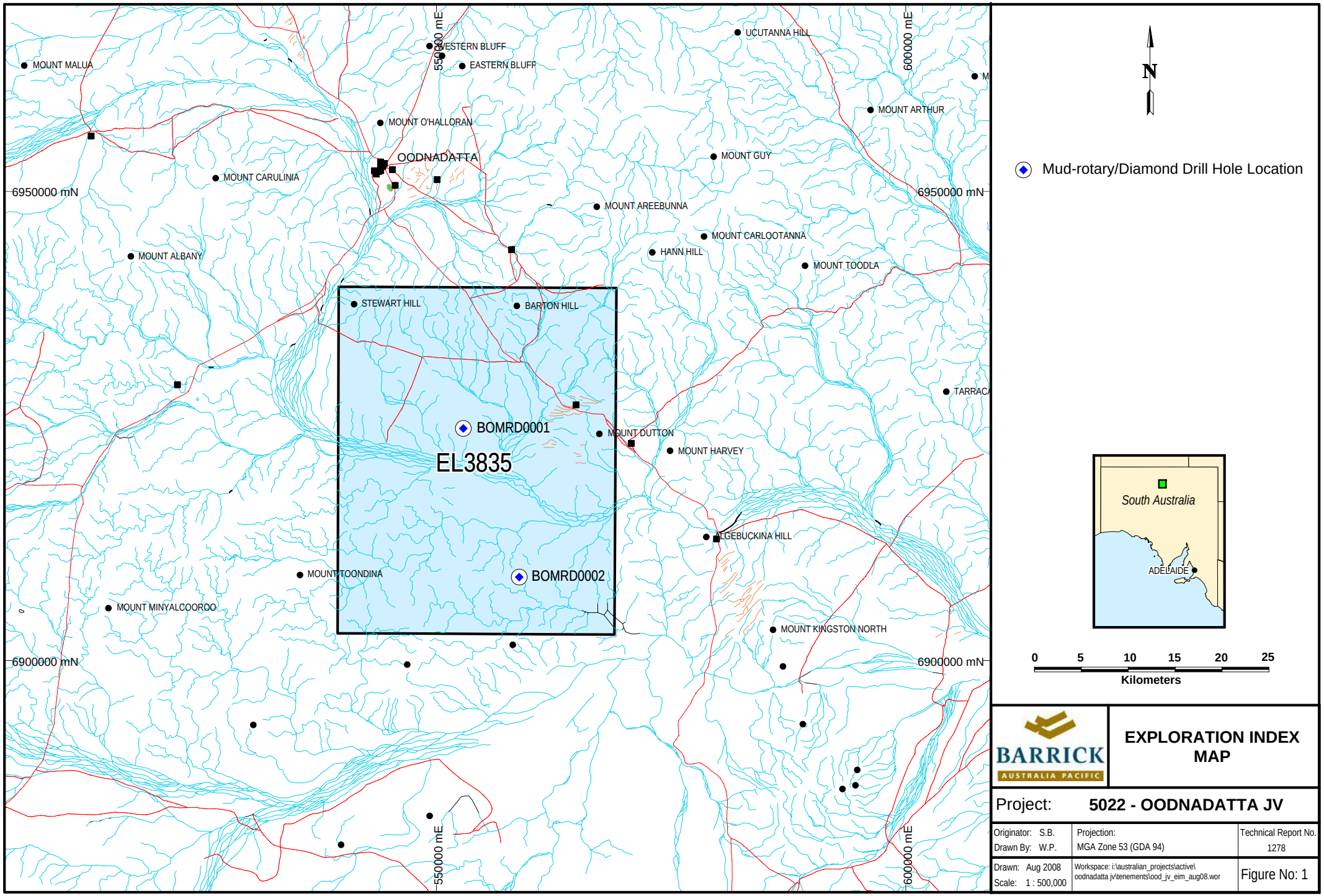
No significant intersections were recorded from either hole.

Future work will focus upon explaining the first gravity anomaly that was drilled, with other gravity anomalies possibly the target of further exploration.

Table 1
Oodnadatta JV Project
Summary of Exploration Activities

Drillholes	Mud-rotary (m)	Diamond Core (m)
2	739	652.2

Keywords: IOCG, gold, copper, Oodnadatta, Peake and Denison, gravity survey, Gawler Craton



BARRICK AUSTRALIA PACIFIC

EXPLORATION INDEX MAP

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: MGA Zone 53 (GDA 94)	Technical Report No. 1278
Drawn: Aug 2008 Scale: 1 : 500,000	Workspace: i:\australian_projects\active\oodnadatta jv\tenements\ood_jv_eim_aug08.wor	Figure No: 1

2.0 LOCATION AND ACCESS

The Oodnadatta JV Project consists of a single tenement – EL3835, which is situated approximately 20 km SE of Oodnadatta in South Australia. Oodnadatta is situated 750km north-northwest of Adelaide and 190km north-northeast of Coober Pedy. Access from Oodnadatta to the tenement is via the un-sealed Oodnadatta Track and various station tracks (Figure 2). The project area is situated upon Allandale Station.

The Exploration Licence occurs on the Oodnadatta (5315) 1:250,000 scale geological map sheet (Figure 2).

3.0 TENURE

The Oodnadatta Joint Venture Project area comprises a solitary Exploration Licence (EL3835), as detailed in Table 2 and illustrated in Figure 3.

The licence was granted to Integra Mining Limited (Integra) in replacement of EL2936 on 12 July 2007.

Barrick Gold of Australia Limited (Barrick) is manager of exploration on EL3835 pursuant to a Farm-In Agreement with Integra dated 28 November 2006. Barrick can acquire an 80% interest in EL3835 by sole funding exploration on the tenement.

Table 2 Tenement Register
Oodnadatta JV Project

Tenement	Area (sq km)	Commenced	Expires	Req. Exp.
EL 3835	1091	12/07/2007	11/07/2008	$270,000

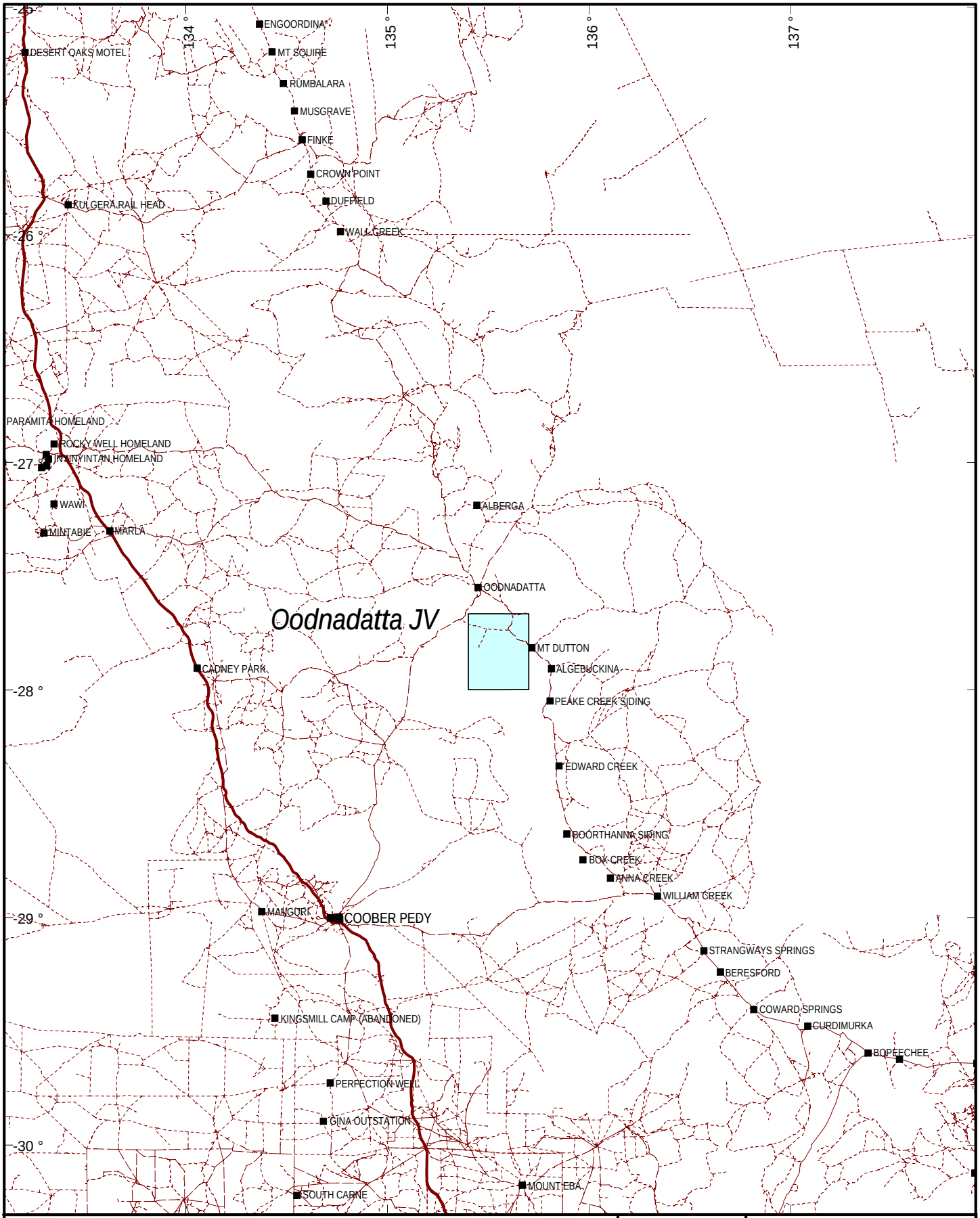
4.0 GEOLOGY

(summarised from Ambrose et al 1981, Cooper et al 2006, Drexel et al 1993, 1995, and Fanning et al 2007)

4.1 Regional Geology

The Oodnadatta JV tenement is located at the northern margin of the Gawler Craton, South Australia. The area is partly covered with recent Cainozoic sediments which overlie a thick package of flat lying Cretaceous to Cambrian aged sediments (Eromanga, Arckaringa and East Officer basins) and NeoProterozoic sediments and volcanics of the Adelaidean Geosyncline Arkaroola Subgroup.

Basement outcrop in the area is restricted to the Peake and Denison Inliers which crop out approximately 15km to the southeast of the project area. These comprise dominantly a thick sequence of PalaeoProterozoic-Mesoproterozoic meta-sediments and basal volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks and diapiric structures during the Palaeozoic Delamerian Orogeny.





N

0 25 50 75 100 125

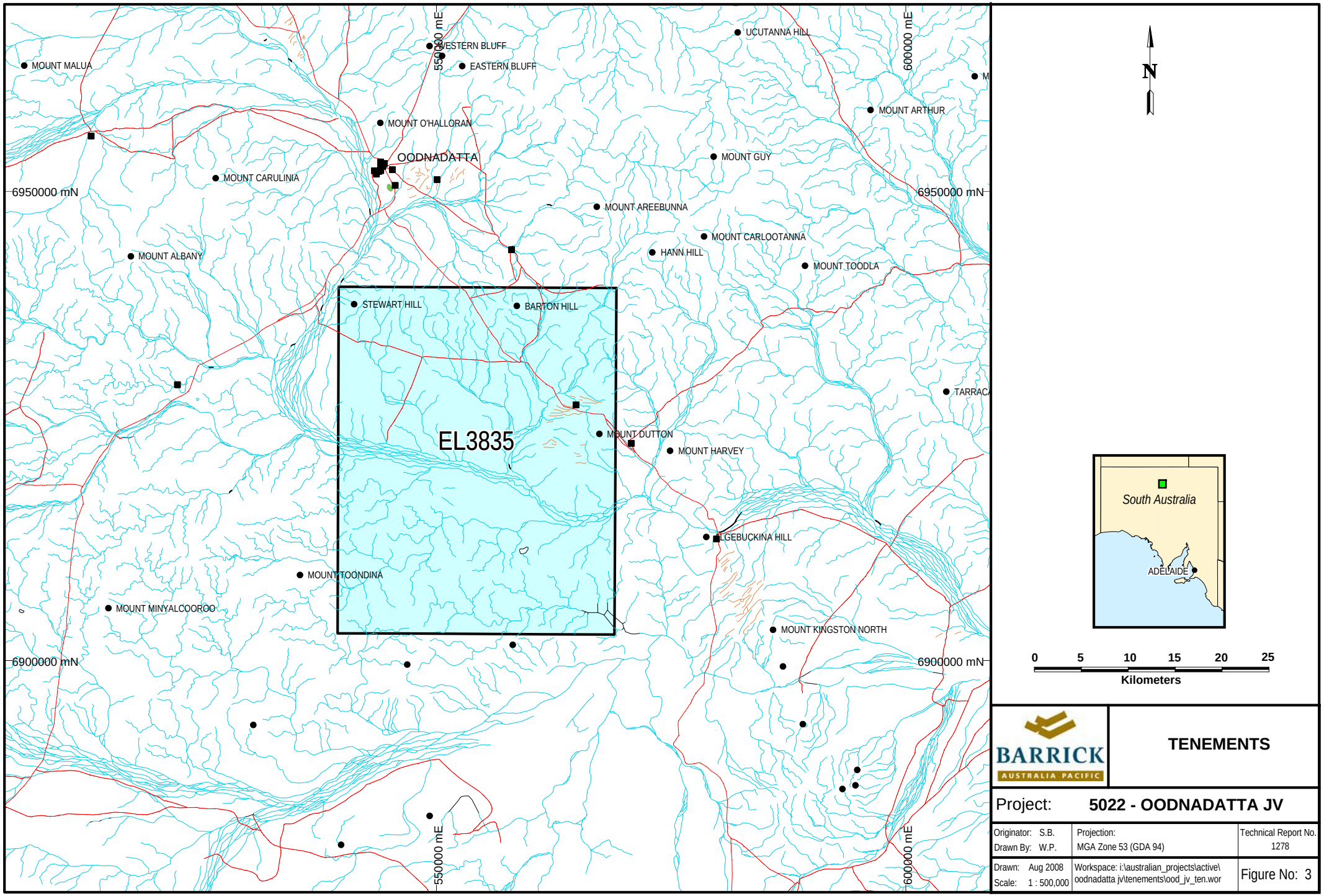
Kilometers

BARRICK AUSTRALIA PACIFIC

LOCATION

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: Latitude/Longitude (GDA 94)	Technical Report No. 1278
Drawn: Aug 2008 Scale: 1 : 2.5m	Workspace: i:\australian\projects\active\oodnadatta_jv\tenements\ood_jv_loc.wor	Figure No: 2



BARRICK AUSTRALIA PACIFIC

TENEMENTS

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: MGA Zone 53 (GDA 94)	Technical Report No. 1278
Drawn: Aug 2008 Scale: 1 : 500,000	Workspace: i:\australian_projects\active\oodnadatta jv\tenements\ood_jv_ten.wor	Figure No: 3

Large scale northwesterly-trending crustal-scale lineaments occur in the project area (O'Driscolls G2 and G9D lineament corridors) and can be observed in the regional geophysics. Associated with these crustal scale lineaments are smaller scale northeast trending structures.

4.2 Local Geology

Exploration Licence 3835 and the surrounding Oodnadatta area is partly covered by a thin veneer of recently deposited Cainozoic sediments. These overlie a thick package of flat lying basin sediments belonging to the Eromanga, Arckaringa and East Officer basins, and in some areas may unconformably overlie NeoProterozoic sediments and volcanics of the Adelaidean Geosyncline Arkaroola Subgroup. Little is known regarding the crystalline basement in the Oodnadatta area due to the thick basin cover and relative absence of drillholes that have penetrated the cover and intersected PalaeoProterozoic-Mesoproterozoic basement.

The Jurassic-Cretaceous aged Eromanga Basin can be divided into three packages – a lower terrestrial unit (Algebuckina Sandstone and Cadna-owie Formation – Great Artesian Basin), intervening marine sequence (Bulldog Shale and Oodnadatta Formation) and upper terrestrial unit (Winton and Mackunda Formation).

The Early Permian to late Carboniferous Arckaringa Basin is thought to underlie some areas in the Oodnadatta area. Arckaringa Basin sediments include the basal Boorthanna Formation (glacigene sequence with marine upper facies) upon which the Stuart Range Formation (homogeneous marine shales and siltstones), and Mount Toondina Formation (terrestrial siltstones, coal and carbonaceous shale grading to sandstone and lacustrine shales) overlie.

Interpreted to underlie the Arckaringa Basin sediments in the Oodnadatta area are sediments belonging to the Cambrian-aged East Officer Basin (Cootanoorina Formation – dolomitic sandstones to mudstones), and marine dominated sediments belonging to the NeoProterozoic Adelaidean Geosyncline – Arkaroola Subgroup.

Within the eastern portion of the tenement (Mount Dutton) and approximately 10km to the east of the tenement (Algebuckina Hill) are two small Neo-Palaeoproterozoic inliers. At Mount Dutton the Neoproterozoic Curdimurka Subcrop (siltstone, sandstone and dolomite) form a small hill while at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

Crystalline basement in the Oodnadatta area is thought to be represented by the Palaeoproterozoic Peake Metamorphics, which consist of un-named metamorphics, Baltucoodna Quartzite, Unnamed schists, and the Tidnamurkuna Volcanics. This sequence may be intruded by the Wirriecurrie Granite (Early Proterozoic).

Within the EL there are only two drillholes (ReLodes TNA001 and TNA002) which penetrate the cover sequence and intersect crystalline 'basement' as described above. These holes are located on the southeast tenement boundary where they intersected interpreted Palaeoproterozoic gneisses of the Peake Metamorphics. These were unconformably overlain by relatively flat-lying unmetamorphosed mafic volcanics (?Neoproterozoic).

Various drillholes (water bores, stratigraphic holes, and exploration drill holes) scattered throughout the project area provide evidence that the Phanerozoic cover sequence is in places quite thick (+500m to >900m).

5.0 PREVIOUS EXPLORATION

Previous exploration within the Oodnadatta JV tenement has been conducted by Shell Development (Australia) Pty Ltd, Getty Oil Development Co. Ltd, Delhi Australian Petroleum Ltd, Sapphire Mines NL, ReLode Ltd and Integra Mining Ltd. Early exploration focused on petroleum (in the deep basin sediments) coal (Permian sediments) and diamonds. Exploration drilling in the Oodnadatta JV tenement area is mainly restricted to the thick basin sediments which cover the Oodnadatta area, within the EL there are only two drillholes (ReLodes TNA001 and TNA002) which penetrate the cover sequence and intersect crystalline 'basement'. These activities are summarised as follows;

- **Shell Development (Australia) Pty Ltd – (1974)**

  Shell Development (Australia) Pty Ltd drilled one drill hole in the Oodnadatta JV Project area. SDA 15, drilled in 1974, was testing for possible coal seams associated with the Permian basin sediments. The hole failed to intersect the Permian sediments and was converted into a water bore.

- **Getty Oil Development Co. Ltd - (1984-5)**

  Getty Oil Development Co. Ltd in the mid 1980's drilled a number of exploration drill holes within the project area targeting coal within the Permian basin sediments. Some of the drill holes intersected uneconomic thin coal bands within the Mt Toondina formation.

- **Delhi Australian Petroleum Ltd (Santos) - (~1984)**

  Delhi Australian Petroleum Ltd conducted a number of regional seismic lines in the general Oodnadatta area to aid petroleum exploration. These were carried out using the vibroseis technique providing deep penetration. The 2D survey lines provide details on the basin cover sequence that occurs throughout the project area and in places crystalline ?basement.

- **Sapphire Mines NL (~1994)**

  Sapphire Mines were targeting diamonds and drilled 3 holes within the Oodnadatta JV tenement area. Drill hole K5M1 ended at 210m depth in Bulldog Shale, K5M2 finished in Cadna-owie formation sediments at a depth of 253m and K3M1 ended within the Bulldog Shale Formation at 120m depth. No kimberlite pipes, diamonds or indicator minerals were intersected by the drilling program.

- **ReLode NL & Integra Mining Ltd (2002 - 2006)**

  ReLode NL (the precursor company to Integra) targeted IOCG type mineralisation associated with large scale gravity features with a three hole drilling program within the Oodnadatta JV. Two holes (TNA001 and TNA002) were drilled in the Toondina Dam area on the southern boundary of EL3835 targeting a large gravity coincident magnetic anomaly. Drilling intersected unmetamorphosed mafic volcanics (?Neoproterozoic) unconformably overlying Palaeoproterozoic gneisses of the Peake Metamorphics. Weak mineralisation (chalcopyrite) was associated with albite+chlorite+hematite alteration. A third hole (OCK001) also targeting a gravity (+ weak magnetic) anomaly intersected hematite-chlorite altered mafic volcanics (?Neoproterozoic).

Integra Mining Ltd, prior to the Barrick JV, drill tested a gravity anomaly (Boorthanna target) with a single hole (BOD001) which failed to intersect crystalline 'basement'. The hole finished at a depth of 336m within the ?Stuart Range Formation (carbonaceous shales).

6.0 EXPLORATION ACTIVITIES AND RESULTS

Exploration activities conducted on the Oodnadatta JV Project have all been carried out on the Australian Geodetic Datum 1984 (AGD84) in Zone 53.

Exploration activities carried out within the reporting period involved:

- the testing of two gravity anomalies with a two hole mud-rotary diamond (MRD) drill program
- A petrological study of mud-rotary chips and diamond core

All downhole drilling data, including lithologies, assays, surveys and collar locations are included in Appendix 1.

6.1 Mud-Rotary Diamond (MRD) Drilling Program

A two hole MRD drill program was undertaken during the reporting period (Table 3), with collar positions shown in Figure 1.

The mud-rotary pre-collar drilling was carried out by Welldrill Pty Ltd using a T-3E drill rig. Due to the presence of the Great Artesian Basin (GAB) in the Oodnadatta area the drill holes were drilled vertically and steel cased prior to the diamond tail drilling. Boart Longyear were contracted to drill the diamond tail on BOMRD0002 and utilised a UDR1000H drill rig.

Samples were dispatched to Genalysis laboratories for preparation in Adelaide and assaying in Perth. Limited nominal 4m composite samples were assayed from the mud-rotary pre-collars. All MR pre-collar samples were assayed for gold by 50g FA with AAS finish and a multi element suite (Ag, As, Bi, Ce, Cu, La, Mo, Pb, Sb, Te, U, W, & Zn) by ICP/MS & ICP/OES.

Diamond core from the diamond tail on BOMRD0002 was ¼ cut with nominal 2m composite samples collected. All diamond core samples were analysed for gold by 50g FA with AAS finish and a multi element suite (Ag, As, Bi, Ce, Cu, La, Mo, Pb, Sb, Te, U, W, & Zn) by ICP/MS & ICP/OES. Selected core samples were chosen for analysis with a 40 element multi-element suite (Ag, Al, As, Ba, Bi, Ca, Ce,Co, Cr, Cs, Cu, Fe, Hf, K, La, Li, Mg, Mo, Mn, Na, Nb, Nd, Ni, P, Pb, Rb, S, Sb, Sc, Sn, Sr, Ta, Te, Th, Ti, U, V, W, Zr & Zn by ICP/MS & ICP/OES).

Table 3 Summary of MRD Drilling Program Hole Details								
Hole	**Co-ordinates (AGD84)**		**Azimuth**	**Dip**	**RL**	**MR Pre-collar**	**Diamond Core**	**Total Depth (m) EOH**
	AGD N	**AGD E**						
BOMRD0001	6924557	552557	360	-90	89.7	430	0	430
BOMRD0002	6908724	558680	360	-90	86.6	309	652.2	961.2

6.2 Petrology Study

A number of samples from BOMRD0002 were selected for petrological examination. These included both chip samples from the mud-rotary pre-collar and also drill core samples from the diamond tail.

The results of the petrology study are outlined within three reports which are included within Appendix 2.

6.3 Results

Barrick completed two MRD drill holes during the reporting period which were positioned to test large gravity (+- magnetic) anomalies. The mud-rotary pre-collar of the first drill hole (BOMRD0001) failed to intersect crystalline basement and the hole was abandoned before reaching target depth. The hole intersected a thick package of basin sediments (Table 4) and finished within a fine-grained sedimentary package consisting of carbonaceous shales/mudstones with lesser fine-grained sandstone at a depth of 430m (?Mt Toondina Formation). The source of the gravity anomaly remains un-tested.

The second hole (BOMRD0002) was completed to a final depth of 961.2m and finished in ?Cambrian-aged Cootanoorina Formation sediments. The hole intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina sandstone (Eromanga Basin), Mt Toondina and Stuarts Range Formation (Arckaringa Basin) before intersecting a very thick package of ?Cootanoorina Formation sediments (Table 4).

No significant intersections were recorded from either hole.

TABLE 4:
Summary Logs from MRD Drilling Program

BOMRD0001

From	To	Stratigraphic Unit	Description
0	2	Cainozoic	Transported polymictic sands, gravels and silts.
2	197	Bulldog Shale	Laminated to thinly bedded dark grey, fossiliferous siltstone and shaley mudstone with minor sandstone
197	228	Cadna-Owie Formation	Fine sandstone with interbedded siltstone and mudstone. Occasionally calcareous
228	243	Algebuckina Sandstone	Fine to medium-grained quartz-dominated sandstone (running). Gritty, with trace siltstone (GAB: 197-243m)
243	264	Mt Toondina Formation	Siltstone, carbonaceous clayey mudstone, shale and fine-grained sandstone. Minor fossiliferous calcareous siltstone-sandstone and fine-grained quartz-dominated sandstone
264	430	Stuarts Range Formation	Siltstone (carbonaceous) with fine grained sandstone

BOMRD0002

From	To	Stratigraphic Unit	Description
0	1	Cainozoic	Transported polymictic sands, gravels and silts.
1	69	Bulldog Shale	Laminated to thinly bedded dark grey, fossiliferous siltstone and shaley mudstone with minor sandstone.
69	88	Cadna-Owie Formation	Fine sandstone with interbedded siltstone and mudstone. Occasionally calcareous.
88	138	Algebuckina Sandstone	Fine to medium-grained quartz-dominated sandstone. Un-consolidated running quartz sand. Gritty, with trace siltstone. (GAB: 69-138m)
138	172	Mt Toondina Formation	Siltstone, carbonaceous clayey mudstone, shale and fine-grained sandstone.
172	289	Stuarts Range Formation	Fine-medium grained sandstones, siltstones and mudstones. Unconsolidated clayey carbonaceous mudstones.

289	330	?Cootanoorina Fm	Well lithified, fine-medium grained sandstone, siliceous with fine disseminated pyrite, and minor hematite +- sericite alteration and carbonate patches (?associated with quartz-carbonate veining), rare 1-2mm rounded quartz grains.
330	961	?Cootanoorina Fm	Dominantly deep basin fill sedimentary unit mostly mud-siltstone (laminated) with graded beds and minor interbedded fine-medium grain sandstone and rare clast poor conglomerate lenses

All downhole drilling data, including lithologies, assays, surveys and collar locations are included in **Appendix 1**.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Two gravity targets were tested during the reporting period with mixed results. The first MRD drill hole did not intersect crystalline basement and failed to reach target depth. The source of the gravity anomaly remains un-explained. A second hole targeting a separate gravity anomaly reached target depth but finished within unaltered and un-mineralised basin sediments belonging to the ?Cootanoorina Formation (Cambrian). Density measurements taken from the diamond core suggest that the relatively dense Cootanoorina sediments may be the source of the gravity anomaly possibly representing an older, uplifted / horst block of denser sediments within a package of less-dense younger basin sediments.

Further work will focus upon explaining the gravity anomaly initially targeted by BOMRD0001. Other exploration may target other high ranking gravity anomalies within the tenement. This exploration may take the form of;

- Infill gravity surveying – to gain further information over selected targets.
- Other geophysical surveys e.g. Seismic – to gain a greater understanding of the cover sequence over selected targets /depth to basement.
- Drill testing

8.0 EXPENDITURE STATEMENT

The expenditure attributable to the tenement during the reporting period is summarised in Table 5, and details are included in Appendix 3 (exclusive of administration overheads).

Table 5
Expenditure Summary
EL 3835 Oodnadatta JV Project

Tenement	Expenditure	*To period (last reporting date)*
EL3835	$1,598,228	11/07/08

9.0 REFERENCES

Ambrose, GL, Flint, RB, Webb, AW, 1981, *Precambrian and Palaeozoic Geology of the Peake and Denison Ranges*, South Australia Geological Survey, Bulletin 50.

Cooper, B.J. and McGeough, M.A. (Eds), 2006. South Australia mineral explorers guide. Second edn. *South Australia. Department of Primary Industries and Resources. Mineral Exploration Data Package,* 11.

Drexel, JF, Preiss, WV and Parker, AJ (eds), 1993, *The Geology of South Australia, Vol 1: The Precambrian, South Australia*, Geological Survey, Bulletin 54.

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Fanning, CM, Reid, AJ, Teale, GS, 2007, *A geochronological framework for the Gawler Craton, South Australia*, Geological Survey, Bulletin 55.

Rohde, C. 2007, *Annual and Final Technical Report EL158/2936*, Unpublished report to the Department of Primary Industry and Resources South Australia (PIRSA). Integra Mining Ltd.

APPENDIX 1

VERIFICATION LISTING FORM

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
Report	TR1278_A_2008	PDF
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Surface Geochemistry		
Stream sediment		
Soil		
Rock chip		
Laterite		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Data Dictionary	Data_Libraries_Acquire.mdb	
Collar	Tr1278coll.txt	SL3
Assay	Tr1278ass.txt	DG3
Survey	Tr1278surv.txt	DS3
Lithology	Tr1278lith.txt	DL3
Events	Tr1278event.txt	DL3
RQD	Tr1278rqd.txt	DL3
Magnetic Susceptibility	Tr1278mag.txt	DL3
Specific Gravity	Tr1278sg.txt	DL3
Water		DL3
Translation	L_Translat_Acquire.txt	
Alteration	Tr1278altn.txt	DL3
Vein	Tr1278vein.txt	DL3
Structure	Tr1278struct.txt	DL3
Drill	Tr1278drill.txt	DL3

BARRICK GOLD OF AUSTRALIA LIMITED

ACTIVITY SUMMARY TABLE

Project: Oodnadatta JV TR1278

Tenements	Drilling					Surface Sampling				Mapping Type & Scale			Geophysics	Compilation Work	
Tenement Group Totals		DDH	MRD	RAB	AC	No.	Auger	BLEG Soil/Lag	Rock Chip	Geology	Regolith	Structure	Type	Data Reviews	
	Holes		2											*Open File*	*Annual Report*
	Metres		1391.2												
													Line KM	Interpretation	
	Elements		Ag, Al, As, Au, Ba, Bi, Ca, Ce, Co, Cr, Cs, Cu, Fe, Hf, K, La, Li, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Rb, S, Sb, Sc, Sn, Sr, Ta, Th, TI, U, V, W, Zn, Zr									*Sections*	*Soils*
Tenement No. EL3835		DDH	MRD	RAB	AC	No.	Auger	BLEG Soil/Lag	Rock Chip	Geology	Regolith	Structure	Type	Data Reviews	
	Holes		2											*Open File*	*Annual Report*
	Metres		1391.2												
													Line KM	Interpretation	
	Elements		As Above											*Sections*	*Soils*

APPENDIX 2

Mason Geoscience Pty Ltd

Petrological Services for the
Minerals Exploration and Mining Industry

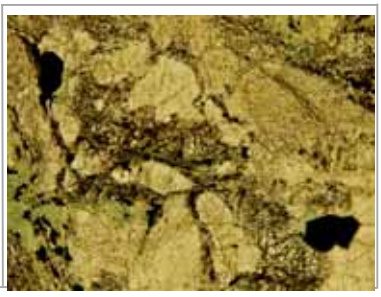
ABN 64 140 231 481 ACN 063 539 686

Postal & Delivery: 141 Yarrabee Rd Greenhill SA 5140 Australia
Phone: +61-8-8390-1507 Fax: +61-8-8390-1194
Email: masongeo@ozemail.com.au

Petrographic Descriptions for Three Rock Samples from Oodnadatta Project , South Australia

Note: Report modified by Barrick to remove details regarding other Projects

REPORT #	**3375**
CLIENT	**Barrick Gold of Australia Limited**
ORDER NO	**P.O. E115217**
CONTACT	**Tony Goddard**
REPORT BY	**Dr Douglas R Mason**
SIGNED	
	for Mason Geoscience Pty Ltd
DATE	**1 February 2008**



Petrographic Descriptions for Three Rock Samples from Oodnadatta Project , South Australia

SUMMARY

1. Rock Samples

•Three rock samples (3 drill core samples from Oodnadatta Project, South Australia) have been studied using optical petrographic methods.

2. Brief Results

- A summary of rock names and mineralogy is provided in TABLE 1.
- *Samples BOMRD002-1, -2 and -3 (Oodnadatta Project)*
  - **Dolomitic sandstone** formed as well-sorted framework-supported arenaceous sediment composed of abundant clastic particles (quartz >> K-feldspar >> tourmaline, zircon, rutile), accompanied by a moderate proportion of interparticle dolomitic matrix.
  - **Low-grade regional metamorphism** caused suturing of the clastic particles, overgrowth of clastic tourmaline by new metamorphic tourmaline, recrystallisation of interstitial dolomite, filling of interparticle pores by new coarser-grained dolomite, and development of trace tiny opaque grains (?sulphide) in the dolomite. Some of the opaques in the interstitial dolomite may be of earlier diagenetic origin (eg ?framboidal pyrite).

TABLE 1: SUMMARY OF ROCK NAMES AND MINERALOGY

SAMPLE	ROCK NAME	MINERALOGY*			
		Primary**	**Metamorphic/ Alteration*****	**Veins**	**Weath-ering**
OODNADATTA PROJECT					
BOMRD002-1	Meta-dolomitic sandstone	Qtz, Kf, tou, zir	Dol, opq(?sulp), tou	-	-
BOMRD002-2	Meta-dolomitic sandstone	Qtz, Kf, tou, rut	Dol, opq(?sulp), tou	-	-
BOMRD002-3	Meta-dolomitic sandstone	Qtz, Kf, tou, rut	Dol, opq(?sulp), tou	-	-

NOTES

*: Minerals are listed in each paragenesis according to approximate decreasing abundance.

**: Only primary minerals currently present in the rock are listed. Others may have been present, but are altered.

***: Earlier parageneses are separated from later parageneses by a semicolon.

Mineral abbreviations

Apa = apatite; cal = calcite; chl = chlorite; dol = dolomite; Kf = K-feldspar (microcline); leu = leucoxene (indeterminate Ti-mineral); mus = muscovite; opq = opaque minerals; pla = plagioclase; qtz = quartz; rut = rutile; ser = sericite; sulp = sulphide minerals; tou = tourmaline; zir = zircon; ?min = uncertain mineral identification.

1 INTRODUCTION

A collection of 3 drill rock samples was received from Mr Tony Goddard (Barrick Gold of Australia Limited, Perth, Western Australia) on 20 December 2007.

i) 3 drill core samples (BOMRD002-1, -2, -3) originate from the Oodnadatta Project.

Particular requests were:

i) To prepare a thin section and petrographic description for each sample;

ii) To perform staining for K-feldspar if relevant.

Excerpts from this report were provided by email to Mr Goddard on 31 December 2008. This report contains the full results of this work.

2 METHODS

At Mason Geoscience Pty Ltd the samples were examined in hand sample. Thin sections were obtained from an external laboratory. Conventional transmitted polarised light microscopy was used to prepare the routine petrographic descriptions. Paragenetic stages of development of each rock are indicated in the mineral modal list, where each mineral is assigned to a numerical paragenesis (paragenesis 1 is earliest; paragenesis 2 overprints 1; paragenesis 3 overprints both 2 and 1; etc). The paragenetic stages display relative timing within each sample, and are not meant to be directly equated between samples although this may be correct for some samples.

Positive optical identification of K-feldspar in all samples was aided by the presence of typical ‘tartan’ twinning, confirming identification as microcline. The section offcuts therefore were not stained for K-feldspar.

3 PETROGRAPHIC DESCRIPTIONS

The petrographic descriptions are provided in the following pages.

SAMPLE : BOMRD002-1 (Oodnadatta Project, South Australia)

SECTION NO. : BOMRD002-1

HAND SPECIMEN : The drill core sample represents a fine-grained, pale grey, massive rock in which small paler whitish grey angular patches lie in a waxy grey matrix.

The section offcut bubbles weakly in reaction with dilute HCl, suggesting dolomitic carbonate occurs as small grains throughout the rock.

ROCK NAME : Meta-dolomitic sandstone

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	Vol %	Origin
Quartz	69	Clastic particles 1
K-feldspar (microcline)	10	Clastic particles 1
Tourmaline	Tr	Clastic particles 1 / metamorphic 2
Zircon	Tr	Clastic particles 1
Carbonate (dolomite)	20	Metamorphic 2 (after primary carbonate 1)
Opaques (?sulphide)	Tr	?Diagenetic 2 / metamorphic 2

In thin section, this sample displays a partly-preserved primary framework-supported clastic sedimentary texture, modified by low-grade metamorphic suturing of grain contacts.

Quartz dominates the rock, occurring as small equant ovoid to anhedral grains ~0.2 mm in size. Some display optically continuous overgrowth of metamorphic quartz on ovoid clastic particle cores, and most grain contacts have suffered some degree of modification by suturing.

K-feldspar occurs in minor amount as small grains similar to size and shape to the quartz grains. All display ‘tartan’ twinning typical of microcline.

Tourmaline forms uncommon small ovoid grains similar in size to the quartz and K-feldspar. Some display thin discontinuous overgrowths of metamorphic tourmaline.

Zircon is present in trace amount as small rounded grains <0.1 mm in size.

Dolomitic carbonate is moderately abundant, and two textural types are distinguished:

i) Most dolomite occurs as very fine-grained massive microgranular aggregates which occupy interstitial patches uniformly distributed through the rock. This appears to represent primary interstitial carbonate matrix which has suffered incipient recrystallisation.

ii) Some dolomite forms larger anhedral grains and small aggregates which occupy some interstices, or form local small overgrowths on the finer-grained dolomite of i) above. This is interpreted to represent migration and recrystallisation of new dolomite during the low-grade metamorphic event.

Opaques occur in trace amount as tiny grains or microgranular aggregates, locally concentrated in the dolomitic interstitial aggregates. This possibly represents primary or diagenetic ?sulphide, but reflected light observations are not available for confirmation. Some have ovoid forms, suggestive of ?framboidal pyrite.

INTERPRETATION :

This sample is considered to have formed as a well-sorted framework-supported clastic sediment of fine sand particle size. Abundant small clastic particles (quartz >> K-feldspar >> tourmaline, zircon) were derived from a crystalline source, and were deposited together with a significant amount of fine-grained interstitial dolomitic carbonate matrix.

The rock suffered a low-grade regional metamorphic event, with particular effects:

i) All particles were firmly welded by grain boundary migration.

ii) Interstitial dolomite recrystallised to form fine-grained microgranular interstitial patches, and some dolomite formed coarser-grained pore fillings.

iii) Minor opaques (possibly ?pyrite) formed preferentially in the interstitial dolomite, possibly as diagenetic ?framboidal pyrite.

SAMPLE : BOMRD002-2 (Oodnadatta Project, South Australia)

SECTION NO. : BOMRD002-2

HAND SPECIMEN : The drill core sample represents a fine-grained pale grey rock.

ROCK NAME : Meta-dolomitic sandstone

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	Vol %	Origin
Quartz	69	Clastic particles 1
K-feldspar (microcline)	5	Clastic particles 1
Tourmaline	Tr	Clastic particles 1 / metamorphic 2
Rutile	Tr	Clastic particles 1
Carbonate (dolomite)	25	Metamorphic 2 (after primary carbonate 1)
Opaques (?sulphide)	Tr	?Diagenetic 2 / ?metamorphic 2

In thin section, this sample displays a well-sorted framework-supported clastic sedimentary texture, modified by low-grade metamorphic effects.

Quartz dominates the rock, forming equant grains ~0.2 mm in size. Some display ovoid (well-rounded) primary grain shapes, and have been overgrown by metamorphic quartz with the original grain surface marked by tiny inclusions. Many quartz grains display sutured grain boundaries in response to low-grade metamorphism.

K-feldspar occurs in minor amount as anhedral grains similar in size and shape to quartz. All display the 'tartan' twinning typical of microcline.

Tourmaline is present in trace amount as small grains pleochroic in dull orange. Some retain their primary rounded particle shape, but others are overgrown by new metamorphic tourmaline.

Rutile occurs in trace amount as small rounded grains of clastic origin.

Carbonate (dolomite) occurs in significant amount, and two textural types are distinguished:

i) Some occurs as very fine-grained turbid microcrystalline interstitial patches. This appears to represent recrystallised primary interstitial carbonate.

ii) Some carbonate occurs as clear anhedral grains and small aggregates, which have partly overgrown some of the finer-grained dolomite patches and otherwise fill the interstices.

Opaques occur in trace amount as tiny subhedral blocky crystals and small anhedral grains which tend to occur preferentially in the interstitial carbonate aggregates. These opaques may be ?pyrite of possible diagenetic or metamorphic origin.

INTERPRETATION :

This sample formed as a well-sorted framework-supported arenaceous sediment composed of abundant clastic particles (quartz >> K-feldspar >> tourmaline, rutile) with a moderate amount of interstitial carbonate matrix. Low-grade regional metamorphism caused suturing of the clastic particles and partial recrystallisation of the interstitial carbonate. The opaques (?pyrite) might have formed during diagenesis, and also as part of the metamorphic event.

SAMPLE : BOMRD002-3 (Oodnadatta Project, South Australia)

SECTION NO. : BOMRD002-3

HAND SPECIMEN : The drill core sample represents a fine-grained pale grey massive rock. One surface of the sample appears to display dissolution textures with redeposition of small translucent rhombic dolomite crystals and possible tiny ?pyrite grains on the solution surface.

ROCK NAME : Meta-dolomitic sandstone

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	Vol %	Origin
Quartz	71	Clastic particles 1
K-feldspar (microcline)	3	Clastic particles 1
Tourmaline	Tr	Clastic particles 1 / metamorphic 2
Rutile	Tr	Clastic particles 1
Carbonate (dolomite)	25	Metamorphic 2 (after primary carbonate 1)
Opaques (?pyrite)	Tr	?Diagenetic 2 / metamorphic 2

In thin section, this sample displays a well-sorted framework-supported arenaceous clastic sedimentary texture, modified by low-grade metamorphic effects.

Quartz is abundant, occurring as small equant grains ~0.2-0.4 mm in size. Some display ovoid shapes reminiscent of primary rounded particles, but most display anhedral shapes which reflect ground boundary suturing in response to metamorphism.

K-feldspar occurs in minor amount as small grains similar in size and shape to the quartz. All display the 'tartan' twinning typical of microcline.

Other clastic particles occur in trace amounts: tourmaline forms small pleochroic green to orange grains mostly of rounded clastic shape but some are overgrown by euhedral metamorphic tourmaline rims; rutile occurs in minor amount as small subrounded grains.

Carbonate (dolomite) is moderately abundant. Some forms very fine-grained microgranular interstitial patches, and some forms larger clear anhedral interstitial pore fillings.

Opaques occur in trace amount as small anhedral grains which occur within the interstitial dolomitic patches.

INTERPRETATION :

This sample represents a fine-grained arenaceous clastic sediment which was well-sorted and compositionally mature. It was originally composed of abundant clastic particles (quartz >> K-feldspar >> tourmaline, rutile) accompanied by a moderate proportion of interstitial carbonate matrix.

In response to a low-grade regional metamorphic event, migration of grain boundaries produced a firmly sutured rock. Interstitial carbonate patches recrystallised to form fine-grained patches and coarser-grained pore fillings. A trace amount of opaques (?sulphide, possibly ?pyrite) formed in the carbonate at this time.

Pontifex & Associates Pty Ltd

MINERALOGY – PETROLOGY · SECTION PREPARATION

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MINERALOGICAL REPORT No. 9228

by Ian R. Pontifex MSc.

NOTE: This report has being modified by Barrick to remove details referring to other projects

January 14th, 2008

TO :	Marian Moroney Barrack Gold of Australia Ltd Locked Bag 12, Cloisters Square PERTH WA 6850
YOUR REFERENCE :	Order No. E114039
MATERIAL :	Drill chips
IDENTIFICATION :	BOMRD0002 (4 samples)
WORK REQUESTED :	Section preparation, description and report with comments as specified.
SAMPLES & SECTIONS :	Returned to you with this report.
DIGITAL COPY :	Enclosed with hard copy of this report.

PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

The four samples of drill chips from the northern Gawler Craton discussed in this report, were submitted with the general request for detailed petrology, including rock type, evidence of fabric/deformation/metamorphism, alteration/sulphides and paragenesis, also to address specific questions listed for each sample.

The samples as received consist of variably 2 chips to 6 chips with a size ranging from 5mm to 12mm maximum and these were mounted in epoxy for section preparation. Although ID of sulphides was requested, initial binocular microscope study indicates "significant" opaque phases in just one sample BOMRD0002, GAB interval which was prepared as a polished thin section. The other three samples were made as normal thin sections, with trace fine pyrite checked in a polished surface on offcut mounts.

The small size of these chips somewhat restricts detailed petrological assessment but (perhaps somewhat surprisingly), most of the information required has been provided, including discussion on genesis.

A summary is presented in Table 1 below.

TABLE 1: Summary of rock types, comments, alteration, mineralisation

BOMRD0002	**Lithology, comment on genesis**
GAB Internal	"Unconsolidated" sand grains of quartz > feldspar, cemented by low temperature, authigenic/diagenetic pyrite
289-292m	Unsorted poorly consolidated bimodal quartz-rich sand, with coarse rounded grains of quartz >> feldspar in finer sand of quartz > feldspar. Finer interstitial matrix of carbonate (?dolomite) minor patches of microsparry carbonate, objectively interpreted as authigenic in this sample, but similar carbonate seen in the 303-312 sample appears to have been introduced, possibly epigenetic/low temperature hydrothermal together with trace probably low temperature hydrothermal pyrite. There is no clear evidence of whole rock metamorphism in these chips however.
292-303	Same as for 289-292m, including same comment on genesis of carbonate.
303-312	Same sand as 289-303 occurs as apparent residuals crowded with, invaded by fine carbonate mosaic, also cut by veins of related microsparry carbonate ± minor quartz and minor fine pyrite which, as noted above, seems to be introduced low temperature hydrothermal.

BOMRD0002 **Pyrite-cemented sand grains of quartz > feldspar, and minor micas. Pyrite almost certainly low-temperature, authigenic/diagenetic**

Field Note : *GAB interval, pyrite cemented sand*

Examination of the two small chips forming this sample in polished thin section confirms your field ID. At least 50% of each chip consists of microscopically massive cryptocrystalline to microcrystalline pyrite, as a matrix to scattered sand grains and minor micas. This pyrite cement has an optical colour, diffuse microtextures and some very incipient anisotropism (typical of marcasite) and mode of occurrence, all indicative of a low-temperature authigenic/diagenetic origin. This implies formation in-situ under reducing conditions (deoxygenated chemical environment) within a host sand.

The sand grains which occur independently within this pyrite meshwork cement are mostly (detrital) angular to rarely subrounded quartz, unsorted with a size range of 0.05mm to rarely 0.5mm. Lesser grains of feldspar have the same morphology and distribution, and minor (detrital) muscovite flakes party leached and altered. The pyrite cement which has invaded and replaced a largely original porosity, commonly permeates microfissures in some quartz veins, and cleavages in some micas.

BOMRD002
282-292m

Unsorted, poorly consolidated, bi-modal sand, with coarse rounded grains of quartz >> feldspar randomly in finer sand. Extensive even finer interstitial carbonate (dolomitic) cement + minor chalcedonic silica, trace fine pyrite. No evidence of metamorphism or hydrothermal influences.

Field Note : *Sandstone, grit gravel*

Three chips, same lithology, of essentially poorly consolidated and poorly sorted, possibly bimodal quartz sand, with minor scattered detrital carbonate. Relatively coarser quartz sand grains and rare feldspar grains, forming about 25% of this sediment are rounded to well-rounded and range in size from 0.25mm to 0.7mm. These are randomly disposed through a more extensive finer grained matrix of quartz grains > feldspar grains mostly 0.1mm to 0.2mm size subangular to subrounded and forming about 45% of the sediment.

The third essential component forming about 30% of this sediment is fine (silt size) carbonate, (which is only weakly reactive to HCl and apparently therefore dolomitic, with minor microfeathery quartz-chalcedony all mixed with minor quartz silt and is irregularly interstitial within the fine sand bulk rock matrix. Minor discrete sand size grains (?lithic fragments) of micritic to microsparry carbonate are also scattered, apparently calcitic and incipiently vein form. Sparse (1-2%) extremely fine 'grains' and minute thread-like particles of low temperature pyrite are also intricately interstitial.

The coarser sand grains of quartz and rarer feldspar (including K-spar) are mostly single crystal, but rarely composite, including diffuse-cherty. Their sphericity indicates that they are distal from their source, which compositionally may have been "granitoid" (metamorphosed), but this cannot be confirmed. The more extensive finer sand matrix is similarly non-diagnostic. The finest interstitial carbonate-rich material ± minor scattered microfeathery "chalcedonic" silica seems to be late stage diagenetic/authigenic, but this may be a low-temperature permeation from an external source (see discussion for carbonate in a similar host sand at 303-312m).

There is no evidence of "metamorphism" (fabric or mineralogy) or hydrothermal influences within this whole rock.

BOMRD0002
292-303m

Exact same bimodal sandy lithology (and therefore same genesis) as chips in sample 289-292, except for slightly more (5%) extremely fine authigenic/diagenetic pyrite interstitial in matrix.

Field Note : *Fine grained, well sorted, silicified pyretic sandstone.*

These three chips have essentially the same composition and textures (and therefore the same genesis) as described in detail above for the 289-292 sample i.e. it has the three essential components of:

- approx 25% rounded to well rounded coarse (to 0.7mm) sand grains of mostly (single crystal) quartz >> feldspar
- approx 45% matrix of fine to medium size sand grains of quartz >> feldspar, subangular to subrounded
- approx 30% very fine carbonate, sporadic interstitial cements, also minor scattered "fragments" and minor small incipient vein-like patches of microsparry/micritic carbonate, minor silt ± clay, minor microfeathery quartz.

These chips do however contain slightly more (5%) extremely fine pyrite, irregularly distributed as part of the interstitial cement-like carbonate-rich material, component #3 above and is interpreted a slow temperature authigenic/diagenetic, but if the carbonate is introduced, as discussed, for the 303-312 sample, this pyrite may also be introduced, but even so, apparently very low temperature.

As for sample 289-292, there is no evidence of whole rock metamorphism within this sand.

BOMRD0002
303-312m

Apparent residuals of the bimodal sandstone described at 289 to 303m above, within fine and coarser sparry, probable introduced low-temperature hydrothermal carbonate, partly replacing the host sand and in veins ± minor quartz crystals and hematite-staining. Sparse extremely fine pyrite may be genetically related.

Field Note : *fine grained, well sorted, silicified, pyretic, hematitic sandstone. (Numerous questions on genesis mineralisation)*

Initial petrographic examination of these three small chips indicates areas of mixed quartz >> feldspar unmetamorphosed sandstone, with coarse rounded grains in more extensive finer sandy matrix, essentially the same but less dominant than in the 289-292 and 292-303m samples, but here as apparent residuals, forming about 40% of the total of these three chips.

The other 60% of these three chips is carbonate which includes the "extremely fine interstitial" carbonate forming about 30% of the two samples above. This carbonate includes however several crosscutting braided veinlets of fine to coarse sparry carbonate, incorporating minor microprisms of (vein) quartz crystals. One chip also includes parallel close-spaced diffuse merging veinlets of the same microsparry carbonate indicating invasion and replacement of the bimodal sandstone as described. (A reddish Fe-staining in some of this invasive carbonate seems to be the hematite in your field note). Sparse extremely fine pyrite is disseminated in this carbonate.

Texturally, this carbonate, in veins ± minor quartz crystals, seems to be hydrothermally introduced, albeit probably at relatively low temperatures. This suggests that the less distinctive interstitial carbonate + minor incipient patchy sparry carbonate in the two samples above, may be very weak (distal) manifestations of the same mineralisation.

MINERALOGICAL REPORT No. 9277

by Alan C. Purvis, PhD

March 27th, 2008

TO :	Marian Moroney Barrick Gold of Australia Ltd Locked Bag 12 Cloisters Square WA 6850 Attention: Serena Goldsmith
YOUR REFERENCE :	Order No. E115119 (part)
MATERIAL :	Drill Core BOMRD0002 (7 samples)
IDENTIFICATION :	Various depths 341.2m to 901.73m
WORK REQUESTED :	Section preparation, description and report with comments and interpretations as specified.
SAMPLES & SECTIONS :	Returned to you with this report.
DIGITAL COPY :	Enclosed with hard copy of this report.

PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

Seven samples from a single drillhole (BOMRD0002), in the northern part of the Gawler Craton, are petrologically described in this report. These mostly consist of carbonate-cemented sandstones and siltstone and silty carbonate-rich rocks, with hematite and minor sulphides in several samples. The lithologies are summaries as follows:

Depth	Lithology	Notes
341.2	Breccia	Carbonate-poor to carbonate-rich siltstone and sandstone with pyrite and lenses of sparry hematite-stained carbonate
379.06	Dolostone	Sand-bearing with carbonate-rich and quartz-rich granules and lenses of authigenic or hydrothermal quartz and carbonate; rare pyrite
388.74	Unsorted sediment	Silt to coarse sand in a carbonate-rich matrix with lenses of authigenic or hydrothermal quartz and carbonate and rare pyrite
506.3	Sandstone	Fine-grained quartz-rich sandstone with feldspars and carbonate cement; cut by a vuggy carbonate vein with sandstone fragments and carbonate-rich offshoots; very minor disseminated pyrite
543.5	Dolomitic micrite	Laminated silty dolomite with pyrite as dendrites and a vein of sparry and fibrous quartz with minor carbonate; carbonate and pyrite occur parallel to the vein as well as in layer-parallel dendrites.
732.81	Pebbly sandy dolostone	Pebbles and granules of pegmatite, quartzofeldspathic gneiss, quartz mosaic, sandstone, granitoid and carbonate-rich to chlorite, quartz or microcline-rich clasts in a carbonate-rich matrix with lenses of authigenic or hydrothermal carbonate.
901.85	Breccia?	Fractured and fragmented pebble and granule-bearing, carbonate-cemented sandstone with lamellae of hematite and sparse pyrite; carbonate also occurs as veins and areas of flooding hosting fractured and fragmented chert, lithic clasts and sand grains, again with sparse pyrite.

Detrital sand is quartz-rich with minor microcline and with plagioclase at 506.3m, as well as accessory leucoxene, muscovite, tourmaline and zircon. Clasts of pegmatite, granite, gneiss and otherwise quartz-rich occur at 732.81m. Granules in some other samples, may be dropstones if there was any glacial activity in the area at the time of sedimentation. However, the abundance of sedimentary carbonate may be inconsistent with this, unless cold water carbonate is involved. Carbonate also commonly occurs as cement and as veins or

authigenic/hydrothermal lenses and aggregates, locally accompanied by pyrite, although minor pyrite also occurs in matrix material, as dendrites and in microfissures. Hematite occurs partly as lamellae and partly defining zones in vein carbonate.

Addressing specific questions in your covering letter:

Your covering notes requested comment on rock type (protolith), metamorphic grade, sulphide, alteration and the relative timing of metamorphic and alteration events. These samples are unmetamorphosed so that the protolith is essentially the same as the present day lithology, apart from veining and authigenic/hydrothermal carbonate ± quartz as well as minor possibly authigenic, diagenetic or low-temperature hydrothermal sulphides and hematite and vein materials.

The provenance is quartzofeldspathic (with microcline more abundant and widespread than plagioclase) and includes fragments of later cherty material, carbonate-free to carbonate-rich sandstone and carbonate, quartz, microcline, sericite and chlorite-bearing lithic fragments of uncertain origin. The possible dropstones at 732.81m suggest granite, pegmatite and protomylonitic gneiss in the provenance region.

INDIVIDUAL DESCRIPTIONS

SAMPLE BOMRD0002 – 341.2m

ROCK NAME (from TS) Breccia of carbonate-poor to carbonate-rich, quartz-rich, microcline-bearing siltstone to fine-grained sandstone. Includes accessory leucoxene and pyrite in microcline-bearing carbonate-poor medium-grained sandstone with lenses of sparry, very fine-grained and partly hematite-stained carbonate.

Field Note: *Altered hematite-dusted dolostone; sulphides and alteration?*

PETROGRAPHY:

This sample seems to be a breccia with unsorted angular fragments to 40mm or more in length visible in the core-segment. Possible matrix seems to be represented by quartz-rich sandstone containing very minor microcline and sparse carbonate as interstitial cement. This material has single-crystal quartz and microcline grains mostly less than 0.25mm in mean diameter, suggesting fine-grained sandstone. The fragments are massive or banded and have quartz and microcline grains from <0.05mm to 0.25mm in diameter as well as between 5% and 35% carbonate, suggesting carbonate-poor to carbonate-rich siltstone and very fine to fine-grained sandstone. Leucoxene is disseminated and in some fragments seems to define bedding laminations. Minor mostly fine-grained pyrite occurs in and along the margins of some of the fragments. Some of the pyrite occurs in lamellae with chlorite or clay.

Lenses, to 6mm long and 3mm wide, composed of sparry carbonate, occur somewhat sparingly with grains to 1.5mm in diameter, partly rhombohedral. This carbonate is locally dusted with hematite. Some of the coarser carbonate rims crystal-lined cavities filled with fine-grained carbonate and has zones outlined by microcrystalline hematite.

SAMPLE BOMRD0002, 379.06m

ROCK NAME (from TS) Sand-bearing dolostone with polycrystalline carbonate and quartz-rich fragments, also abundant authigenic or hydrothermal carbonate-quartz aggregates.

Field Note: *Pebbly conglomerate with weak sericite alteration: protolith; sulphides; alteration and textures?*

PETROGRAPHY:

In hand specimen this sample could be interpreted as granule-bearing dolostone, but the thin section has abundant apparently microporous microcrystalline carbonate in areas with sparse leucoxene, accessory zircon about 50μm in grainsize and rare apatite. These host relatively coarse-grained aggregates of quartz and/or carbonate to 10mm or more in length and 5mm wide, with partly euhedral or granular to prismatic quartz. These aggregates are irregular and seem to have formed in situ and are authigenic or hydrothermal in origin. However, there may be smaller fragments of microgranular, weakly porous carbonate and of microgranular quartz with sparse pyrite as well as rounded single-crystal quartz grains to 1mm in diameter. The quartz-carbonate aggregates make up 44% of the thin section, contributing 25% quartz and 19% carbonate, with 47% matrix, 3% polycrystalline carbonate fragments and 6% single-crystal and polycrystalline quartz grains ± pyrite.

SAMPLE BOMRD0002 – 388.74m

ROCK NAME (from TS) Unsorted silt to coarse sand with quartz > microcline and other accessories in microcrystalline carbonate. Abundant partly interconnected porous lenses of quartz and carbonate ± sulphide of authigenic/hydrothermal origin.

Field Note: *Fine-grained sandstone with sand/mud mixing textures: protolith; sulphides; alteration and textures?*

PETROGRAPHY:

In hand specimen this sample is blotchy with irregularly anastomosing pale areas as well as irregular grey areas. Some porosity is visible in the pale areas. In thin section the grey areas have unsorted terrigenous detritus in a matrix of microcrystalline carbonate, possibly dolomite. Most of the detrital grains range from < 0.05mm to 1mm in grainsize and include abundant quartz, very minor microcline and accessories such as leucoxene, tourmaline, zircon and fine-grained muscovite. Rare microcrystalline pyrite is disseminated and rare fragments of polycrystalline quartz ± carbonate and decussate sericite occur, to 1.5mm long. The pale anastomosing domains are composed of sparry carbonate and quartz in various proportions with sparse crystal-lined cavities. Some of these areas contain microcrystalline or colloform sulphide, possibly pyrite or marcasite.

In thin section these quartz-carbonate aggregates and associated quartz-rich fractures constitute about $^{1}/_{3}$ of the thin section, with carbonate (~15%) slightly more abundant than quartz (~12%) and 5-7% porosity. Some of the quartz is euhedral and most is granular to prismatic. Microcrystalline carbonate makes up about 40% of the host sediment or 27% of the thin section, leaving about 40% detrital material. There is less than 1% sulphide.

SAMPLE BOMRD0002 – 506.3m

ROCK NAME (from TS) Quartz-rich fine-grained sandstone with minor feldspars and a carbonate cement. Cut by a vuggy carbonate vein with fragments of sandstone and zones in the carbonate picked out by hematite. Carbonate-rich offshoots extend from the main vein into the sandstone.

Field Note: *Thin hematite veinlet in fine-grained sandstone: protolith; sulphides; alteration and textures*

PETROGRAPHY:

The host-rock in this sample is weakly laminated and rich in angular single-crystal quartz grains mostly less than 0.25mm in grainsize. It also has less abundant feldspar, including plagioclase as well as microcline, and accessories including leucoxene, tourmaline, muscovite and possible zircon. Very minor pyrite is also disseminated and there is 5-15% microcrystalline carbonate in different areas. The vein in this thin section varies from 2mm to 6mm wide with large crystal-lined cavities in the widest part and several offshoots less than 0.5mm wide. The vein is mostly filled with sparry carbonate to 1.5mm in grainsize but also has several fragments of sandstone to 3mm long. The carbonate has zones parallel to rhombohedral faces picked out by hematite but is not a hematite vein as suggested in your notes. The host-rock is quartz-rich fine-grained sandstone with a carbonate cement and has partly vuggy carbonate veins.

SAMPLE BOMRD0002 – 543.5m

ROCK NAME (from TS) Laminated silty dolomite micrite with sulphide in dendrites partly parallel to the layering and carbonate-filled fractures. A vein of microsparry and fibrous quartz contains minor carbonate and fragments of wall rock, with carbonate and sulphide-filled microfissures and dendritic sulphide parallel to the vein.

Field Note: *Mudstone with dendritic textures? Protolith; sulphides; alteration and textures?*

PETROGRAPHY:

This sample is finely laminated and has a crosscutting vein. Lamellae about 0.2mm wide contain silt-sized angular quartz grains mostly less than 50μm in diameter in possibly sericite-bearing micritic carbonate (dolomite?) with microcrystalline quartz. Dendritic masses of sulphide, possibly pyrite ± marcasite, are as much as 10mm long parallel to the layering and may extend for as much as 4mm across the layering. Smaller dendrites are also attached to a fracture at a low angle to the layering, filled with carbonate.

The main vein in this thin section is mostly less than 2mm wide but incorporates ragged fragments of wall rock. It has segments rich in microsparry quartz as well as longer segments with fan-shaped and microspherulitic fibrous quartz. Minor carbonate is also present and is granular or rhombohedral. Microfissures filled with carbonate occur on either side of this vein with microfissures and small dendrites composed of sulphide.

SAMPLE BOMRD0002 – 732.81m

ROCK NAME (from TS) Pebble bearing sandy dolomite. Pebbles include pegmatite, quartz-feldspar-rich augen gneiss and vein or metamorphic quartz material. The host matrix is carbonate-rich with quartz, various lithic fragments, K-spar and accessory heavy minerals. Local lenses of authigenic/hydrothermal carbonate and microfissures containing sulphide.

Field Note: *Granitic clast within matrix-supported conglomerate: protolith; sulphides; alteration; veining within clasts?*

PETROGRAPHY:

This sample has a granular pink and green fragment at least 40mm long along one edge of the core-segment, in a fine-grained matrix with sparse coarse sand-sized fragments and lenticular veins. In the thin section the largest clast is at least 25mm long and 8mm wide and has areas rich in weakly hematite-stained microcline and deformed sodic plagioclase to 10mm in grainsize. There are also patches of chlorite ± leucoxene and clay-altered small elongate crystals, with some patches suggesting former biotite. Leucoxene has also replaced opaque oxide or titanite (sphene) and there are chlorite and limonite-filled fractures. This clast seems to represent quartz-free pegmatite. Another large clast is 7mm x 5mm and quartz-rich with rare carbonate and a mosaic texture, suggesting vein or metamorphic quartz. A third large clast is probably at least 15mm x 10mm and has abundant coarse-grained quartz and less abundant albite-sericite-altered coarse-grained plagioclase. Lenses and lamellae of schistose chlorite ± sericite occur, usually with fine-grained quartz, and lamellae of fine-grained mylonitic quartz are also evident.

The matrix is carbonate-rich with silt to very coarse sand-sized grains and lithic fragments as well as partly microporous lenses of microsparry carbonate. The detritus varies from < 0.05mm in diameter to about 2mm and are dominated by single-crystal quartz grains but there is also minor microcline and various lithic grains. A clast of quartz-microcline-rich fine-grained sandstone is present, without carbonate and cemented by optically continuous overgrowths, as well as clasts composed variously of quartz, K-spar, carbonate and chlorite, including pure K-spar and pure fine-grained carbonate. Quartz-rich clasts also occur with plagioclase, muscovite or schistose biotite and chloritised possible feldspar, indicating granitoid and metasediment. There are also lenses of presumably authigenic or hydrothermal

microsparry carbonate, mostly without the quartz seen in the previous samples, as well as microfissures filled with sulphide, possibly low-temperature pyrite. Accessories include detrital muscovite, tourmaline, leucoxene and rare zircon to 0.15mm in grainsize. The matrix carbonate is microcrystalline, as in the previous samples.

It may be that some of the pebbles in this thin section are dropstones, suggesting possible glaciation in the vicinity. There are no obvious veins within clasts, apart from hairline chlorite and limonite-filled fractures, but there are sulphide-filled microfissures in the matrix.

SAMPLE BOMRD0002 – 901.85m

ROCK NAME (from TS) Apparently fractured and fragmented hematite-bearing, carbonate-cemented, pebble and granule-bearing coarse-grained sandstone. This lithology includes large lithic clasts (sandstone and carbonate ± sericite ± microcline ± chlorite), abundant quartz and minor microcline. Pale carbonate-rich areas have sparse veins and areas rich in mostly microcrystalline carbonate, with chert and various carbonate-chlorite-quartz-rich fragments, also sparse to abundant sand grains incorporated from the host-rock. Minor pyrite occurs in the host-rock and carbonate-rich areas.

Field Note: *Breccia zone within mudstone/fine sandstones with weak hematite staining within clasts: protolith; sulphides; alteration and veining?*

PETROGRAPHY:

This sample has apparently fractured and fragmented purplish hematite-bearing sediment with a network of possible carbonate-rich veining and flooding. In thin section the purplish areas consist of granule and pebble-bearing, carbonate-cemented quartz-rich coarse-grained sandstone with lamellae of hematite possibly defining a bedding-parallel foliation and sparse fine-grained pyrite. The sandstones have single-crystal quartz grains and less abundant microcline, together with rare polycrystalline quartz grains, mostly less than 1mm in grainsize. The largest pebble is 7mm long and 4mm wide and composed of bedded medium to coarse-grained quartz-rich sandstone with minor microcline and hematite. Granules and lithic coarse to very coarse sand grains 1-4mm in diameter contain micritic or microsparry carbonate with sericite and/or chlorite (± microcline) or fine-grained granular pyrite. Sparse chloritic clasts are also disseminated, with minor carbonate.

The pale areas include definite carbonate-rich veins from 0.2mm to 1.5mm wide with rare crystal-lined cavities and sparse pyrite, locally enclosing rounded single-crystal quartz grains, but are mostly composed of microcrystalline carbonate with sparse sand grains and lithic fragments. These areas are partly more than 10mm wide and contain possible fragments of carbonate-cemented sandstone with few or no hematite lamellae. One area has abundant angular fragments to 4mm long composed of shattered microcrystalline chert, with a carbonate vein along the edge of one fragment and a cement of partly microporous

microsparry carbonate. Other fragments to 4mm long are carbonate-rich with minor quartz, sericite and chlorite in various proportions. Quartz grains are mostly much less abundant than in the adjacent sandy dolomitic sediment, but there is an area that is rich in single-crystal quartz and microcline grains and represent carbonate-flooded sandy sediment rather than veining.

APPENDIX 3

EL 3835
Oodnadatta JV
Expenditure Statement for Year Ending 11 July 2008

Activity	*Expenditure Y/E 11/07/2008*
Geological Activities	**278,987**
Geochemical Activities	**3,110**
Geophysical Activities	**8,984**
Mineralogical Activities	**5,156**
Gridding & Surveying Activities	**5,000**
Drilling Activities	**1,141,611**
Drafting Activities	**13,673**
Field Supplies	**50,830**
Travel Costs	**48,941**
Field Camp Activities	**2,543**
Environmental Activities	**7,842**
Technical Studies	**1,514**
Sub-Total	**1,568,191**
Aboriginal Heritage Survey	**20,932**
General Tenement Costs	**574**
Tenement Rents	**4,513**
Administration	**4,018**
TOTAL	**$1,598,228**

BARRICK GOLD OF AUSTRALIA LIMITED

(ABN 19 008 143 137)

PROJECT 5022

OODNADATTA JV PROJECT

Tenement Holder - Integra Mining Ltd
Operator - Barrick Gold of Australia Limited

EL3835

ANNUAL REPORT AND EXPENDITURE

FOR THE PERIOD

12 July 2008 – 11 July 2009

TECHNICAL REPORT NO. 1294

MAP SHEETS: SG5315 (Oodnadatta)

DISTRIBUTION:

1. BGAL Perth 5022.310
2. BGAL Archive 5022.310
3. Integra Mining Ltd

Stephen Brown

Project Geologist
March 2009

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2. Petrology Reports
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4. PIRSA Rehabilitation Report
5. Expenditure Statement

1.0 SUMMARY

This report details the exploration activities completed within the Oodnadatta JV project, from 12 July 2008 to 31 March 2009, at which time Barrick withdrew from the JV.

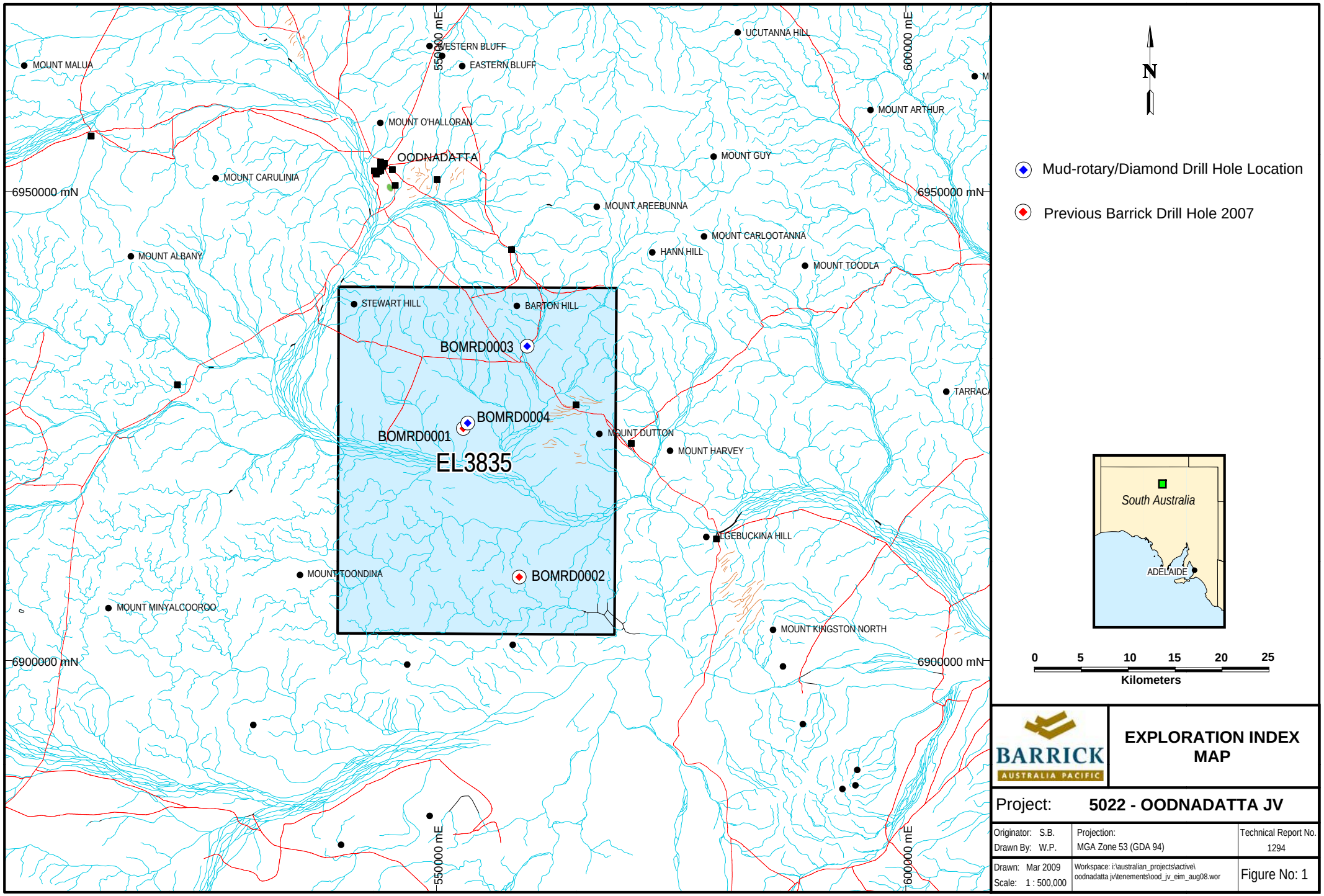
The exploration work during this period was conducted by Barrick Gold of Australia Limited and involved a two hole MRD (mud-rotary diamond) drilling program targeting coincident gravity-magnetic anomalies that possibly represent buried IOCG-type mineralised systems. These activities are summarised in Table 1 and illustrated in Figure 1.

Results from the MRD drilling program were disappointing with only one significant intersection recorded from the drill program (2m @ 7.95 g/t Au from 768m in BOMRD0003). Barrick has withdrawn from the Oodnadatta Joint Venture Project.

Table 1
Oodnadatta JV project
Summary of Exploration Activities

MRD Drilling Program			
Drill Holes	Mud-rotary (m)	Diamond Core (m)	Total metres drilled
2	905.5	801.5	1707
Petrology Study		Petrophysical Study	
20 Samples		4 Samples	

Keywords: IOCG, gold, copper, Oodnadatta, Peake and Denison, gravity survey, Gawler Craton



BARRICK AUSTRALIA PACIFIC

EXPLORATION INDEX MAP

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: MGA Zone 53 (GDA 94)	Technical Report No. 1294
Drawn: Mar 2009 Scale: 1 : 500,000	Workspace: i:\australian_projects\active\oodnadatta jv\tenements\ood_jv_eim_aug08.wor	Figure No: 1

2.0 LOCATION AND ACCESS

The Oodnadatta JV Project consists of a single tenement – EL3835, which is situated approximately 20 km SE of Oodnadatta in South Australia. Oodnadatta is situated 750km north-northwest of Adelaide and 190km north-northeast of Coober Pedy. Access from Oodnadatta to the tenement is via the un-sealed Oodnadatta Track and various station tracks (Figure 2). The project area is situated upon Allandale Station.

The exploration licence occurs on the Oodnadatta (5315) 1:250,000 scale geological map sheet (Figure 2).

3.0 TENURE

The Oodnadatta Joint Venture Project area comprises a solitary Exploration Licence (EL3835), as detailed in Table 2 and illustrated in Figure 3.

The licence was granted to Integra Mining Limited (Integra) in replacement of EL2936 on 12 July 2007.

Barrick Gold of Australia Limited (Barrick) is manager of exploration on EL3835 pursuant to a Farm-In Agreement with Integra dated 28 November 2006. Barrick can acquire an 80% interest in EL3835 by sole funding exploration on the tenement.

Table 2 Tenement Register
Oodnadatta JV Project

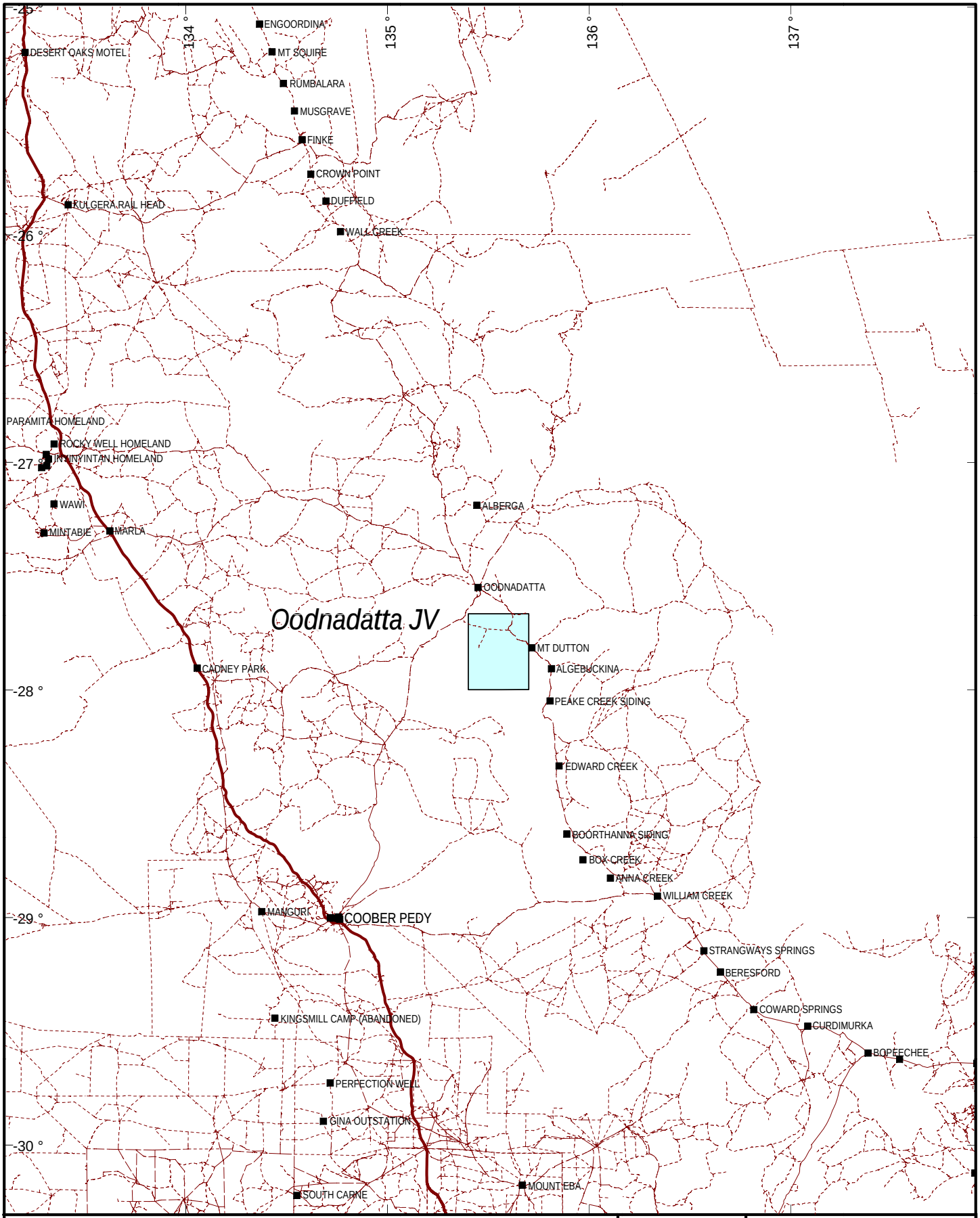
Tenement	Area (sq km)	Commences	Expires	Req. Exp.
EL 3835	1091	12/07/2007	11/07/2010	$270,000

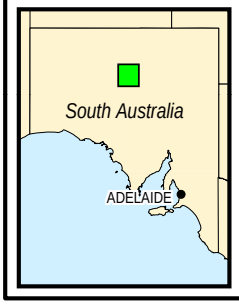
4.0 GEOLOGY

(was summarised in Brown 2008)

5.0 PREVIOUS EXPLORATION

(was summarised in Brown 2008)





N

0 25 50 75 100 125

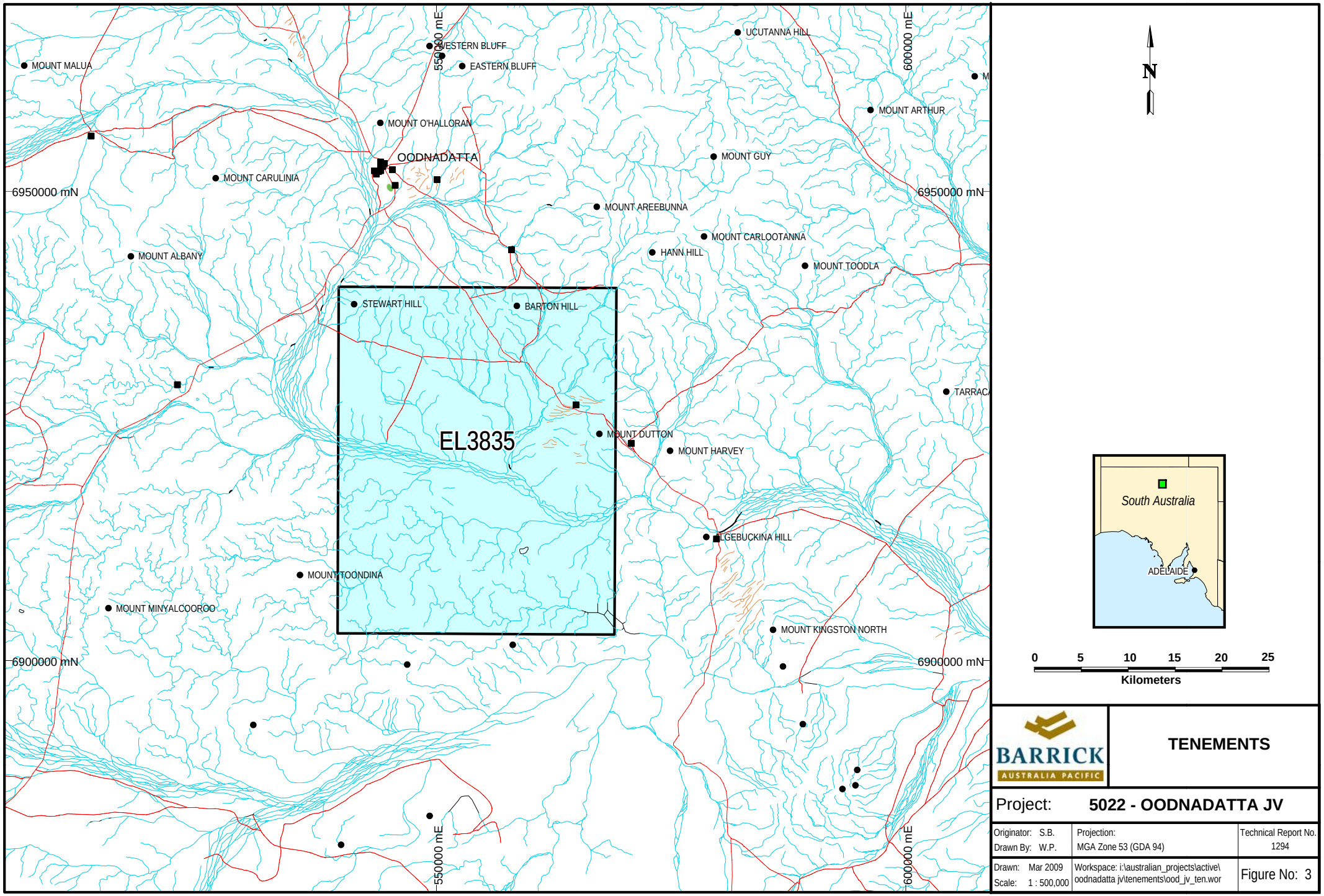
Kilometers

BARRICK AUSTRALIA PACIFIC

LOCATION

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: Latitude/Longitude (GDA 94)	Technical Report No. 1294
Drawn: Mar 2009 Scale: 1 : 2.5m	Workspace: i:\australian\projects\active\oodnadatta_jv\tenements\ood_jv_loc.wor	Figure No: 2



BARRICK AUSTRALIA PACIFIC

TENEMENTS

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: MGA Zone 53 (GDA 94)	Technical Report No. 1294
Drawn: Mar 2009 Scale: 1 : 500,000	Workspace: i:\australian_projects\active\ oodnadatta jv\tenements\ood_jv_ten.wor	Figure No: 3

6.0 EXPLORATION ACTIVITIES AND RESULTS

Exploration activities conducted on the Oodnadatta JV Project have all been carried out on the Australian Geodetic Datum 1984 (AGD84) in Zone 53.

Exploration activities carried out within the reporting period involved:

- the testing of two gravity-magnetic anomalies with a two hole mud-rotary diamond (MRD) drill program
- A petrological study of diamond core from the drilling program

All downhole drilling data, including lithologies, assays, surveys and collar locations are included in Appendix 1.

6.1 Mud-Rotary Diamond (MRD) Drilling Program

A two hole MRD drill program was undertaken during the reporting period (Table 3), with collar positions shown in Figure 1.

The mud-rotary pre-collar drilling was carried out by Watson Drilling Pty Ltd using a Bournedrill drill rig (T6). Due to the presence of the Great Artesian Basin (GAB) in the Oodnadatta area, the drill holes were drilled vertically and steel cased prior to the diamond tail drilling. Watson Drilling completed the diamond tail on BOMRD0003. Boart Longyear were contracted to complete the diamond tail on BOMRD0004 and utilised a UDR1000H drill rig (BLU 6).

Samples were dispatched to Genalysis laboratories for preparation in Adelaide and assaying in Perth. Limited nominal 4m composite samples were assayed from the mud-rotary pre-collars. The MR pre-collar samples were assayed for gold by 50g FA with AAS finish and a 40 element multi-element suite (Ag, Al, As, Ba, Bi, Ca, Ce,Co, Cr, Cs, Cu, Fe, Hf, K, La, Li, Mg, Mo, Mn, Na, Nb, Nd, Ni, P, Pb, Rb, S, Sb, Sc, Sn, Sr, Ta, Te, Th, Ti, U, V, W, Zr & Zn by ICP/MS & ICP/OES).

Diamond core sampling was carried out on site with nominal 2m composite samples of ½ core collected. Diamond core samples were analysed for gold by 50g FA with AAS finish and a multi element suite (Ag, As, Bi, Ce, Cu, La, Mo, Pb, Sb, Te, U, W, & Zn) by ICP/MS & ICP/OES. Selected core samples were chosen for analysis with a 40 element multi-element suite (Ag, Al, As, Ba, Bi, Ca, Ce, Co, Cr, Cs, Cu, Fe, Hf, K, La, Li, Mg, Mo, Mn, Na, Nb, Nd, Ni, P, Pb, Rb, S, Sb, Sc, Sn, Sr, Ta, Te, Th, Ti, U, V, W, Zr & Zn by ICP/MS & ICP/OES).

Table 3: Summary of MRD Drilling Program
Hole Details

Hole	Co-ordinates (AGD84)		Azimuth	Dip	RL	MR Pre-collar	Diamond Core	Total Depth (m) EOH
	AGD N	AGD E						
BOMRD0003	6933487	559650	360	-90	105	365.5	537.2	902.7
BOMRD0004	6908724	558680	360	-90	89.7	540	264.3	804.3

All drill holes, pad areas, access tracks and camp area were rehabilitated as per PIRSA guidelines.

The report submitted to PIRSA detailing the rehabilitation is included within Appendix 4.

6.2 Petrology Study

Twenty samples from the drill program were selected for petrological examination.

The results of the petrology study are outlined within two reports which are included within Appendix 2.

6.3 Petrophysical Study

Four diamond core samples were collected during the drilling program for petrophysical examination.

The results of the study are included within Appendix 3.

6.4 Results

Barrick completed two MRD drill holes during the reporting period which were positioned to test large coincident gravity-magnetic anomalies. The first drill hole (BOMRD0003) intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina Sandstone (Eromanga Basin), before intersecting quartzite, with interbedded minor siltstone to dolomictic mudstone and shale (Neoproterozoic ?Duff Creek Beds). Underlying the sedimentary package were andesitic volcanics (?Cadlareena Volcanics) which included thin, rare quartz-+feldspar porphyry intrusions. The volcanics displayed patchy to pervasive hematite-chlorite+-sericite-carbonate alteration throughout, with rare zones of earthy hematite overprinting (Table

5). Only rare occurrences of trace sulphide (pyrite +- trace chalcopyrite) were logged throughout the hole. One significant intersection was recorded from BOMRD0003 (2m @ 7.95 g/t Au from 768m) possibly associated with a narrow carbonate-chlorite vein at 768.5m.

The second hole (BOMRD0004) was completed to a final depth of 804.3m and positioned approximately 20m from a previous Barrick drill hole in which the pre-collar failed to reach 'bed-rock' (BOMRD0001). BOMRD0004 intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina Sandstone (Eromanga Basin), Mt Toondina and Stuarts Range Formation (Arckaringa Basin) before intersecting a thick package of Cambrian ?Cootanoorina Formation sediments containing dacitic porphyry intrusive (Table 5). Rare occurrences of trace pyrite were logged throughout the hole.

Significant intersections from the drilling program are noted within Table 4.

Table 4
Significant Core Drill Intersections

Hole	Co-ordinates (AGD84 z 53) N	E	RL	Azi	Dip	Gold Mineralisation > 1.0g/t From To (m)	Length (m)		Grade (g/t)
BOMRD0003	6933487	559650	105	-	-90	768-770	c	2	7.95

c Composite Sample	* Assays not received
! Mineralisation at base of hole	+ Hole incomplete
w Wet Sample	? Data subject to verification

Summary geology logs from the drilling program are noted within Table 5.

TABLE 5:
Summary Logs from MRD Drilling Program

BOMRD0003

From (m)	To (m)	Stratigraphic Unit	Description
0	4	Cainozoic	Transported polymictic sands, gravels and silts.
4	245	Bulldog Shale	Laminated to thinly bedded dark grey, siltstone and shaley mudstone with minor sandstone
245	265	Cadna-Owie Formation	Fine sandstone with interbedded siltstone and mudstone. Occasionally calcareous
265	302	Algebuckina Sandstone	Fine to medium-grained quartz-dominated sandstone (running). Gritty, with trace siltstone (GAB: 245-302m)
302	645	?Duff Creek Formation	Siltstone to dolomictic mudstone and shale with interbedded quartzite
645	657	?Duff Creek Formation	Fault Zone: Puggy clay, brecciated Cootanoorina Fm material, fault gouge
657	721	?Duff Creek Formation	Quartzite, with interbedded minor siltstone to dolomictic mudstone and shale
721	902.7	?Cadlareena Volcanics	Andesitic volcanic with rare quartz-+feldspar porphyry intrusive. Patchy pervasive hematite-chlorite+-sericite-carbonate alteration throughout, with rare zones of earthy hematite overprinting

BOMRD0004			
From (m)	To (m)	Stratigraphic Unit	Description
0	3	Cainozoic	Transported polymictic sands, gravels and silts.
3	195	Bulldog Shale	Laminated to thinly bedded dark grey, fossiliferous siltstone and shaley mudstone with minor sandstone.
195	236	Cadna-Owie Formation	Fine sandstone with interbedded siltstone and mudstone. Occasionally calcareous.
236	273	Algebuckina Sandstone	Fine to medium-grained quartz-dominated sandstone. Un-consolidated running quartz sand. Gritty, with trace siltstone. (GAB: 195-273m)
273	388	Mt Toondina Formation	Shale with rare interbedded fine-grain sandstone.
388	540	Stuarts Range Formation	Shale
540	601	? Stuarts Range Formation	Unconsolidated to weakly consolidated fine quartz sand and fine-medium grained sandstone (aquifer)
601	607	?Cootanoorina Fm	Well lithified, finely interbedded fine-grained sandstone and mudstone - ?dolomictic
607	670	?Cadlareena equivalent	Intermediate intrusive (dacitic porphyry) with fine magnetite with rare interbedded shale / fine-grain sandstone
670	804.3	?Cootanoorina Fm	shale, dolomictic shale, with minor sandstone (+- minor ?quartz-feldspar tuff)

7.0 CONCLUSIONS AND RECOMMENDATIONS

Results from the MRD drilling program were disappointing with only one significant intersection recorded from the drill program (2m @ 7.95 g/t Au from 768m in BOMRD0003). Both holes failed to intersect the interpreted underlying Paleoproterozoic Peake and Denison basement or identify mineralisation. Barrick withdrew from the Oodnadatta Joint Venture project on 31 March 2009.

8.0 EXPENDITURE STATEMENT

The expenditure attributable to the tenement during the reporting period is summarised in Table 6, and details are included in Appendix 5.

Table 6
Expenditure Summary
EL 3835 Oodnadatta JV Project

Tenement	Expenditure	*To period (last reporting date)*
EL3835	$1,238,251	31/03/09

9.0 REFERENCES

Brown, S. 2008, *Annual Technical Report EL3835*, Unpublished report to the Department of Primary Industry and Resources South Australia (PIRSA). Technical Report 1278. Barrick Gold of Australia.

APPENDIX 1

TEMPLATE 7 - VERIFICATION LISTING FORM

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
Report	TR 1294_A_2009	PDF
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Surface Geochemistry		
Stream sediment		
Soil		
Rock chip		
Laterite		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Data Dictionary	Data_Libraries_Acquire.mdb	
Collar	Tr1294coll.txt	WA SL3
Assay	Tr1294ass.txt	WA DG3
Survey	Tr1294surv.txt	WA DS3
Lithology	Tr1294lith.txt	WA DL3
Events	Tr1294event.txt	WA DL3
Recovery		WA DL3
Magnetic Susceptibility	Tr1294mag.txt	WA DL3
RQD	Tr1294RQD.txt	WA DL3
SG	Tr1294SG.txt	WA DL3
Translation	L_Translat_Acquire.txt	
Alteration	Tr1294altn.txt	WA DL3
Vein	Tr1294vein.txt	WA DL3
Structure	Tr1294struct.txt	WA DL3
Drill	Tr1294drill.txt	WA DL3

APPENDIX 2

Pontifex & Associates Pty Ltd

MINERALOGY – PETROLOGY · SECTION PREPARATION

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MINERALOGICAL REPORT No. 9482

by Alan C. Purvis, PhD

February 6th, 2009

TO : Stephen Brown
Barrick Gold of Australia Ltd
Locked Bag 12
Cloisters Square
PERTH WA 6850

YOUR REFERENCE : Your letter dated 7th November, 2008

MATERIAL : 3 drill cores, Northern Gawler Craton, East of Oodnadatta

IDENTIFICATION : BOMRD003-381.05, 381.7, 418.6

WORK REQUESTED : Thin section preparation, description and report.

SAMPLES & SECTIONS : Returned to you with this report.

DIGITAL COPY : Emailed 9/2/09 to:
<rkellet@barrick.com>
<sbrown@barrick.com>



PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMENTS

The three samples described in this report from polished thin sections are from a single drillhole in the northern Gawler Craton, east of Oodnadatta in South Australia. These samples are reported to be from intrusive bodies, possibly within the Cambrian Cootanorina Formation. All of the samples are highly altered and veined, involving various proportions of albite, sericite, carbonate, chlorite, leucoxene, magnetite, hematite, biotite, hematite, pyrite and chalcopyrite.

The shallowest sample, from 381.05m, is fine-grained and apparently sparsely plagioclase-porphyritic, with albite-carbonate-sericite-chlorite-biotite pervasive alteration, minor disseminated magnetite and rare sulphide. Locally chalcopyrite is the main sulphide, but other areas have pyrite > chalcopyrite. A large zone of carbonate veins also contains chalcopyrite, pyrite and rare hematite, with a zone of shearing and fracturing with clays, limonite, possible adularia, carbonate and microcrystalline hematite. This sample may be basaltic or andesitic.

The sample from 381.7m is quite different with altered elongate phenocrysts, probably ex-hornblende (now biotite-carbonate) and pyroxene (chlorite-carbonate) as well as scattered albite, carbonate, sericite, biotite, titanomagnetite, quartz and apatite. The precursor may have been a lamprophyric. A large carbonate-rich vein encloses a lens of sericite-clouded feldspathic rock with interstitial quartz and coarse-grained apatite. This carbonate vein also contains titanomagnetite locally replaced by hematite-rutile aggregates and abundant coarse-grained apatite. Chalcopyrite and pyrite occur sparsely in the host-rock and these veins. One lenticular carbonate vein carries microplaty hematite and rare chalcopyrite.

The deepest sample, from 418.6m, is rich in albite-sericite-altered plagioclase, together with carbonate-leucoxene ± sericite ± quartz after probable pyroxene and sericite-leucoxene-altered ex-biotite or amphibole. Minor magnetite is disseminated, also sparse interstitial quartz and rare fine-grained apatite. This sample could represent microdiorite or plagioclase-rich dolerite.

More exact classification of these samples may be achieved by selected geochemistry, especially of the more immobile elements (Al, Ti, Zr, Cr, and REE). The alteration is considered to be low-temperature hydrothermal, with common carbonate and sericite and minor sulphide, partly in veins. As indicated, magnetite occurs in all three samples.

INDIVIDUAL DESCRIPTIONS

BOMRD0003 – 381.05m **Possibly ex-basalt extensively altered to heterogeneous albite-quartz-carbonate-chlorite-biotite-sericite-magnetite. Small fractures contain chlorite, carbonate and adularia, larger carbonate veins enclose lenses and fragments of altered rock, patches of quartz ± adularia and limonite-clay-filled stylolite-like veins and fractures. Minor pyrite and chalcopyrite occur throughout.**

Field Note: *Intermediate-mafic intrusive: sulphides, magnetite in the groundmass, vein?*

This thin section is divided into three parts, with the central part being composed of veins. On one side there is an area with sparse albite-sericite-altered small plagioclase phenocrysts as well as abundant disseminated carbonate rhombs, locally composite with patches of chlorite. A large patch of olive-brown biotite is also present, together with carbonate. This material is enclosed in an aggregate of albite ± sericite with irregularly disseminated quartz, carbonate, chlorite, sericite and biotite. Very minor magnetite, rare pyrite and sparse chalcopyrite are also disseminated. Material on the opposite side of the vein system is similarly fine-grained and altered but seems to have more abundant small patches of biotite ± chlorite probably derived from mafic grains. Albite, quartz, carbonate, and sericite are abundant or common and sparse fine-grained magnetite is disseminated. The main sulphide is pyrite to 0.3mm in grainsize with rare chalcopyrite. Both areas contain carbonate vein and fractures filled variously with chlorite, carbonate and adularia. Some of these fractures contain chalcopyrite.

Between these areas of highly altered rock is a zone with subparallel and crosscutting carbonate veins to 5mm wide with lenses or fragments of altered rock, mostly rich in albite, quartz, carbonate and chlorite. Very minor chalcopyrite occurs in the main carbonate veins with minor hematite and pyrite. These main carbonate veins are clouded and contain small grains and aggregates of quartz, crosscutting lenses of albite and quartz or lenses of quartz passing into adularia-rich patches. There is also an irregular zone containing stylolite-like veins and fractures with limonite and clays as well as carbonate veins and lenses of clouded possible adularia. Minor microcrystalline hematite occurs in the fractures and sheared zone. Clear carbonate microfissures cutting across the clouded carbonate veins terminate against stylolite-like veins on either side of the main vein.

This sample is possibly basaltic but is too highly altered to be classified without reliable geochemical data.

BOMRD0003 – 381.7m **Possible hornblende-pyroxene porphyritic rock altered to albite-biotite-chlorite-sericite-carbonate. Minor opaque grains in a lenticular carbonate-rich vein. One large carbonate vein contains minor apatite > biotite. Chlorite and plagioclase-rich lenses and apatite lenses + minor quartz, biotite, and chlorite.**

Field Note: *Intermediate-mafic intrusive as above – granitic xenolith material?*

Disseminated possibly mafic phenocrysts in this thin section are as much as 2.5mm long and have been altered to decussate biotite and minor carbonate and may have been hornblende. Smaller phenocrysts have chlorite-carbonate alteration and may have been pyroxene. The groundmass is rich in albite but also has biotite, chlorite, carbonate and opaque grains. Quartz is very minor and mostly interstitial. The opaque material is mostly titanomagnetite with rare hematite-rutile aggregates and sparse sulphide, including pyrite and separate chalcopyrite to 0.4mm in grainsize. The phenocrysts are roughly parallel and may define a flow foliation. The presence of altered possibly mafic phenocrysts suggests the possibility of a lamprophyric character and a broadly andesitic composition.

Several parallel veins occur in this thin section. One is lenticular and has lenses of carbonate with sparse masses of specular hematite to 1mm long. A wider zoned vein system is 10-15mm wide with zones composed of granular and rhombohedral carbonate as well as minor biotite, chlorite and opaque grains, mostly magnetite with minor chalcopyrite and sparse hematite-rutile aggregates ex-magnetite. There are also irregularly disseminated large lenses of granular to prismatic apatite to 2mm in length. Lenses with albite-sericite altered plagioclase and minor interstitial quartz occur in this vein, with some aggregates of parallel plagioclase laths to 3mm long. Marginal zones are rich in biotite and very minor chlorite. One area also has lenses of apatite to 2mm long.

Partly vuggy hairline carbonate veins are also evident.

BOMRD0003 – 418.6m **Possible dolerite or quartz-bearing microdiorite, altered to albite-sericite-carbonate-leucoxene-hematite. Carbonate veins carry minor pyrite.**

Field Note: *Aplitic intrusive or sediment (quartzite?): sulphides, magnetite, alteration and textures?*

Elongate plagioclase laths to 2mm long seem to have dominated this sample and have been altered to albite and sericite. There are also common aggregates of carbonate and leucoxene, ± sericite ± quartz, possibly ex-pyroxene or amphibole and elongate sericite-leucoxene aggregates possibly derived form amphibole or biotite. Interstitial quartz is very minor and locally encloses apatite, with apatite also disseminated. There are also interstitial patches of carbonate. Irregular carbonate vein locally contain partly fractured and fragmented pyrite grains and there are limonite-filled fractures. Rare pyrite is also disseminated.

This sample may represent altered plagioclase-rich dolerite or quartz-bearing microdiorite but may need some geochemistry.

Pontifex & Associates Pty Ltd

MINERALOGY – PETROLOGY · SECTION PREPARATION

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MINERALOGICAL REPORT No. 9492

by Alan C. Purvis, PhD

February 26th, 2009

TO : Stephen Brown
Barrick Gold of Australia Ltd
Locked Bag 12
Cloisters Square
PERTH WA 6850

YOUR REFERENCE : Your letter dated 16th December 2008

MATERIAL : 17 Drill cores, Northern Gawler Craton, East of Oodnadatta

IDENTIFICATION : Drill Hole Numbers BOMRD003 to BOMRD004

WORK REQUESTED : Polished thin section preparation, description and report.

SAMPLES & SECTIONS : Returned to you with this report.

DIGITAL COPY : Emailed 26/2/09 to:
<rkellet@barrick.com>.
<sbrown@barrick.com>



PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

Seventeen polished thin sections of core segments from Drill Holes BOMRD003 and D004 (4 samples) and described and discussed in this report. Sample depths in each drill hole are listed below in summary tables of the petrology and mineralisation. These drill holes are from an area east of Oodnadatta in South Australia, into possible Cambrian and Neoproterozoic sediments and igneous rocks in or adjacent to the northern part of the Gawler Craton. Thirteen samples from drillhole BOMRD0003 may represent Cambrian sediments of the Cootanoorina Formation overlying Neoproterozoic Cadlareena Volcanics. The four BOMRD004 samples consist of crowded dacite porphyry with various alteration and veining.

Samples in drillhole BOMRD0003 include altered probable intermediate intrusive ± extrusive igneous rocks at about 553m (sparsely porphyritic with sericite-carbonate alteration) and 595m (two samples with hornblende ± biotite phenocrysts with albite-carbonate-chlorite-leucoxene-pyrite alteration). Chalcopyrite is abundant in the sample from 595.45m, mostly in a carbonate vein.

Two samples of pyritic fine-grained sediment occur at 645.3m and 649.1m, with sericite and carbonate interstitial to silt and very fine-grained sand, and a silicified layer at 645.3m.

The deeper samples include andesite porphyry at 671.6m, 691.2m and 803.0m, with apparently altered hornblende-pyroxene-porphyritic andesite at 717.8m, all showing various albite, sericite, chlorite, carbonate, leucoxene and pyrite alteration as well as xenoliths at 671.6m and various unmineralised veins. Albite-hematite-rich or albite-chlorite-rich mafic material at 798.7m, 817.5m, 830.5m and 848.8m is partly brecciated but may represent one or more sills or dykes of dolerite, depending on whether the andesitic material at 803.0m is earlier or later than the dolerite. The andesite at 803.0m has rare chalcopyrite.

The four samples from drillhole BOMRD0004 consist of crowded dacite porphyry at 634.6m to 648.0m, with abundant fresh, or sericite ± hematite-clouded, plagioclase phenocrysts, also quartz phenocrysts, fresh or chloritised hornblende ± biotite, accessory magnetite and/or pyrite, titanite, apatite and rare zircon. These all occur in a microcrystalline quartzofeldspathic groundmass. A probable xenolith occurs at 642.7m and a composite carbonate vein at 648m carrying minor epidote and chlorite, also abundant pyrite apparently derived from micaceous hematite.

All samples show relatively low-temperature hydrothermal alteration, superimposed on higher temperature alteration of hornblende to biotite in only one sample of dacite porphyry from BOMRD0004. This may be of late magmatic or deuteric origin, however.

Sericite, carbonate, chlorite, albite, quartz, leucoxene and hematite occur variously in BOMRD0003. Sericite, chlorite, albite, epidote and carbonate occur in BOMRD0004, but samples from this drillhole commonly have at least partly fresh plagioclase, hornblende and biotite phenocrysts.

Pyrite is widespread and may be diagenetic or of low-temperature hydrothermal origin in sediments and of low-temperature hydrothermal origin in the igneous rocks. Significant chalcopyrite in BMRD0003 at 595.45m seems to be related to carbonate veining. Veins with micaceous hematite also occur in BOMRD0003 at 594.4m (without sulphide) but pyrite has apparently replaced micaceous hematite in a carbonate-rich vein in BOMRD0004 at 648.0m

1. BOMRD0003

553.19m	Sericite-carbonate-leucoxene-pyrite-altered porphyritic volcanic or fine-grained intrusive rock, probably intermediate
594.4m	Biotite/hornblende-bearing intermediate rock with albite-carbonate-chlorite-adularia-hematite-leucoxene-pyrite alteration: cut by hematite-carbonate-chlorite-adularia and carbonate veins with later stylolite-like veins,
595.45m	Albite-carbonate-chlorite-leucoxene-pyrite-chalcopyrite-altered hornblende-bearing intermediate lithology with quartz-carbonate veins carrying chalcopyrite, carbonate veins, stylolite-like veins and a wide carbonate vein with abundant chalcopyrite and rare pyrite.
645.3m	Interbedded pyritic carbonate-bearing siltstone, silty carbonate and partly silicified carbonate rock with clay and carbonate-filled microfissures and carbonate veins ± quartz.
649.1m	Bedded sandy and silty sediments with interstitial sericite, quartz and carbonate in various proportions and carbonate veins ± quartz ± pyrite
671.6m	Sericite-albite-leucoxene-pyrite-chlorite-altered possible andesite porphyry with a fragment of quartzite and a quartz-carbonate fragment with a patch of sericite and leucoxene.
691.2m	Albite-sericite-chlorite-carbonate-leucoxene-pyrite-altered andesite porphyry with carbonate veins containing albite or chlorite and quartz.
717.8m	Albite-chlorite-clay-carbonate-hematite-pyrite-altered apparently hornblende-pyroxene porphyritic andesite or porphyry with chlorite and carbonate veins.
798.9m	Albite-hematite-chlorite-leucoxene-altered dolerite with early quartz veinlets and later carbonate veins ± hematite ± quartz.
803.0m	Albite-sericite-chlorite-carbonate-hematite-pyrite altered andesitic porphyry accessory sulphide (pyrite > chalcopyrite) and carbonate veinlets.
817.5m	Albite-hematite-chlorite-leucoxene-altered amygdaloidal basalt with amygdales filled with chlorite ± quartz ± carbonate and veins with albite ± carbonate ± chlorite.
830.5m	Breccia of albite-sericite-chlorite-leucoxene-hematite-altered fine-grained dolerite or coarse-grained basalt with hematite-rich fine-grained fragments, interstitial chlorite ± quartz ± carbonate and irregular carbonate veins
848.8m	Breccia of albite-chlorite-sericite-carbonate-hematite-leucoxene-altered dolerite with interstitial hematite, early carbonate and quartz veins and a later carbonate vein.

2. BOMRD0004

634.6m	Weakly sericite-chlorite-altered crowded dacite porphyry with plagioclase, hornblende and quartz phenocrysts, microphenocrysts of magnetite and titanite and sparse pyrite.
636.5m	Sericite-chlorite-pyrite-altered crowded dacite porphyry with plagioclase and hornblende phenocrysts and magnetite microphenocrysts: cut by hairline carbonate veins.
642.7m	Weakly altered crowded dacite porphyry with plagioclase, hornblende and biotite phenocrysts as well as pyrite, titanite, apatite and rare zircon and an elongate possible xenolith with decussate biotite and granular plagioclase.
648.0m	Sericite/clay and hematite-clouded crowded dacite porphyry with plagioclase phenocrysts and hornblende and biotite phenocrysts largely altered to chlorite as well as pyrite, titanite and axial plane in a clay-clouded quartzofeldspathic groundmass: cut by a composite vein with carbonate, pyrite ex-platy hematite, epidote and chlorite.

INDIVIDUAL DESCRIPTIONS

BOMRD0003 – 553.19m **Sericite-carbonate-leucoxene-pyrite-altered porphyritic volcanic or fine-grained intrusive rock, probably intermediate**

Field Note: *Aplitic intrusive?*

Schistose sericite dominates this sample but it also contains scattered aggregates of sericite that seem to have replaced plagioclase phenocrysts and aggregates of carbonate, sericite and leucoxene that seem to represent amphibole or pyroxene phenocrysts to 2mm long. The host schist has minor carbonate, leucoxene and quartz and has been cut by quartz-rich fractures containing minor carbonate. Very minor microcrystalline pyrite is partly disseminated and partly in the fractures. The textures are largely metamorphic apart from relict phenocrysts.

This sample seems to have been fine-grained and porphyritic but may have been either intrusive or extrusive and probably intermediate.

BOMRD0003 – 594.4m **Biotite/hornblende-bearing intermediate rock with albite-carbonate-chlorite-adularia-hematite-leucoxene-pyrite alteration: cut by hematite-carbonate-chlorite-adularia and carbonate veins with later stylolite-like veins,**

Field Note: *Intermediate-mafic intrusive?*

This sample is dominated by fine-grained orange-clouded albite 0.1mm to 0.2mm long. Interstitial patches and aggregates, some of which are more than 1mm long, are composed variously of chlorite, adularia and carbonate, rarely with hematite and locally with leucoxene suggesting possible pseudomorphs after biotite and/or hornblende. These aggregates may represent 15% of the thin section with 5% disseminated opaque oxide, accessory rare apatite and <1% pyrite. One pyrite aggregate is more than 1mm long. Early lenticular veins to 4mm wide contain various proportions of carbonate, chlorite and adularia as well as large aggregates of partly bent micaceous hematite. These have been cut by narrower carbonate veins, some of which have lenses of quartz and/or adularia. The carbonate veins have been cut and offset along stylolite-like veins with clays, leucoxene and hematite.

This sample seems to represent possibly biotite/hornblende-bearing intermediate rock with albite-carbonate-chlorite-adularia-hematite-leucoxene-pyrite alteration and various veins. It could be intrusive or extrusive, but if it is relatively thin it may be intrusive (dyke or sill).

BOMRD0003 – 595.45m **Albite-carbonate-chlorite-leucoxene-pyrite-chalcopyrite-altered possibly hornblende-bearing intermediate lithology with quartz-carbonate veins carrying chalcopyrite, carbonate veins, stylolite-like veins and a wide carbonate vein with abundant chalcopyrite and rare pyrite.**

Field Note: *Intermediate-mafic intrusive?*

The host-rock in this thin section is similar to that in the previous sample and has abundant orange stained albite about 0.2mm in grainsize but has possibly 20% carbonate-chlorite-opaque oxide aggregates (± quartz) apparently derived from hornblende to >1mm long, as many aggregates have a rhombic outline. There is also disseminated opaque oxide to 0.2mm in grainsize and pyrite to 0.5mm as well as minor chalcopyrite, locally rimming and veining pyrite. There is also more abundant apatite compared to the previous sample, as grains to 0.3mm long, but interstitial quartz is rare and there is little or no adularia.. Some of the pyrite has rims of carbonate. Early narrow carbonate-quartz veins (with minor chalcopyrite and rare hematite) and carbonate veins are present and have been cut by clay-leucoxene-rich stylolite-like veins as in the previous sample. The main vein is 8-12mm wide and rich in carbonate but also has partly fractured and fragmented grains and lenses of chalcopyrite to 5mm long, rarely enclosing fine-grained pyrite.

This sample is again intermediate but possibly hornblende-bearing .with albite-carbonate-chlorite-leucoxene-pyrite-chalcopyrite alteration.

BOMRD0003 – 645.3m **Interbedded pyritic carbonate-bearing siltstone, silty carbonate and partly silicified carbonate rock with clay and carbonate-filled microfissures and carbonate veins ± quartz.**

Field Note: *Weakly sheared/foliated quartzite and shale*

This sample has disrupted bedding with layers possibly 5-10mm wide offset by as much as 2mm along clay-filled microfissures and accompanying carbonate-filled hairline fractures. Most layers are rich in microcrystalline quartz and represent siltstone, with various proportions of foliated sericite and interstitial microcrystalline carbonate, commonly accompanied by microcrystalline pyrite. Some layers and patches are rich in microcrystalline carbonate with less abundant quartz and sericite. The foliation is mostly layer-parallel but is locally deformed adjacent to clay-filled fractures. Fragments of carbonate vein material have also been off set by clay and carbonate-filled fractures.

One layer seems to have been brecciated or affected by slumping and has rounded lenses or fragments of carbonate-rich or quartz-rich (partly microporous) material in a sheared sericite-carbonate-rich matrix. This layer also has abundant carbonate-filled fractures and quartz-bearing carbonate veins to 1mm wide, roughly parallel to the layering. The wider vein has lenses of microplaty carbonate suggesting boiling. The layer adjacent to this, at one end of the thin section, has abundant apparently low-temperature hydrothermal quartz with interstitial carbonate and more abundant pyrite compared to the other layers.

This sample has layers of carbonate-bearing pyritic, silty carbonate rock and partly silicified pyritic carbonate rock with a largely layer-parallel foliation, clay-filled fractures, carbonate-filled microfissures and disrupted or quartz-bearing carbonate veins.

BOMRD0003 – 649.1m **Bedded sandy and silty sediments with interstitial sericite, quartz and carbonate in various proportions and carbonate veins ± quartz ± pyrite**

Field Note: *Foliated quartzite and shale – bleached (near large structure)*

Beds in this thin section are mostly 2mm to 20mm in apparent thickness with some narrower lamellae about 0.2mm wide largely composed of sericite or illite. Most layers have microcrystalline to very fine sand-sized subangular quartz grains ($<^1/_8$ mm) with interstitial sericite, quartz and/or carbonate as well as minor pyrite, with bimodal (sandy and silty claystone) layers in the majority, but one layer has a single larger grain of microcline 0.4mm in diameter. There is some rhythmic layering and some suggestions of grading, but most beds are ungraded. There are possibly scours into very fine-grained narrow layers and very narrow lamellae or stylolites with carbonaceous matter. Sericite-rich beds have a bedding-parallel foliation but sericite in carbonate-rich beds is weakly oriented.

Carbonate-rich veins, with or without quartz, are partly confined to specific layers or zones and are crosscutting, but some veins are at a low angle to bedding. Some veins contain minor pyrite and one has offset bedding by 2mm.

Any bleaching seems to represent interstitial carbonate and more abundant carbonate veins.

BOMRD0003 – 671.6m **Sericite-albite-leucoxene-pyrite-chlorite-altered possible andesite porphyry with a fragment of quartzite and a quartz-carbonate fragment with a patch of sericite and leucoxene.**

Field Note: *Porphyry with wall-rock xenoliths (sedimentary)*

Sericitised feldspar phenocrysts to 6mm long are abundant in this sample and locally enclose sericite-leucoxene-altered mafic microphenocrysts. Mafic microphenocrysts elsewhere in the thin section have sericite-quartz-leucoxene ± chlorite alteration. Small grains and fragments of quartz could be xenocrystal as there is a fragment of fine-grained quartzite 3mm in diameter. There is also a large fragment, 10mm x 6mm with fine sand-sized quartz grains ser in carbonate, with a large block of carbonate in one corner and a patch of sericite and leucoxene. Chlorite patches attached to this fragment seem to have replaced mafic silicate (possibly amphibole?). The groundmass is mostly orange-stained albite with minor sericite, carbonate, leucoxene and pyrite but only rare quartz and apatite, suggesting andesite or andesitic porphyry.

BOMRD0003 – 691.2m **Albite-sericite-chlorite-carbonate-leucoxene-pyrite-altered andesite porphyry with carbonate veins containing albite or chlorite and quartz.**

Field Note: *Porphyry*

Albite-sericite-altered plagioclase phenocrysts to 5mm long are abundant (~35%) in this thin section and are accompanied by 7-8% chlorite-carbonate-leucoxene-altered probable hornblende to 3mm long. There is also rare apatite. The groundmass is fine-grained with abundant albite and sparse interstitial quartz as well as carbonate, chlorite, pyrite and leucoxene. Rare aggregates of quartz occur with minor carbonate and may be space-filling. Several carbonate veins occur, to 1.5mm wide. One has minor albite as optically continuous overgrowths on grains in the adjacent porphyry and one has minor quartz and chlorite. Small ragged patches of pyrite are not related to the veins, however.

This sample seems to be andesite porphyry.

BOMRD0003 – 717.8m **Albite-chlorite-clay-carbonate-hematite-pyrite-altered apparently hornblende-pyroxene porphyritic andesite or porphyry with chlorite and carbonate veins.**

Field Note: *Intermediate volcanic?*

This sample has two types of phenocrysts: one was clearly hornblende, to 3mm in grainsize and has clay-chlorite alteration with minor opaque grains and inclusions of apatite. The other has carbonate-quartz ± chlorite alteration and may have been clinopyroxene. Smaller crystals altered to chloritic clay (or chlorite-smectite?) or to carbonate-rich aggregates also occur in the groundmass, but are minor compared to reddish albitised plagioclase to 0.5mm in grainsize. There is also 5% interstitial quartz and disseminated opaques, mostly magnetite and hematite with minor pyrite. There is a narrow chlorite vein and a carbonate vein with minor hematite.

This sample is andesitic but seems to have been porphyritic in hornblende and pyroxene.

BOMRD0003 – 798.9m **Albite-hematite-chlorite-leucoxene-altered dolerite with early quartz veinlets and later carbonate veins ± hematite ± quartz.**

Field Note: *Hematite-altered andesite*

This sample represents altered ophitic dolerite with abundant (55%) albitised plagioclase laths, former ophitic pyroxene altered to earthy and microplaty hematite or to quartz and minor carbonate and skeletal opaque oxide altered to hematite and leucoxene. Interstitial patches of pale green chlorite are also disseminated as well as rare interstitial quartz. Early hairline fractures contain quartz and minor carbonate with later veins to 2mm wide with hematite-stained carbonate ± minor to abundant microcrystalline quartz. Some of these are largely paralleled by later veins to 2mm wide filled with clear granular carbonate.

BOMRD0003 – 803.0m **Albite-sericite-chlorite-carbonate-hematite-pyrite altered andesitic porphyry accessory sulphide (pyrite > chalcopyrite) and carbonate veinlets.**

Field Note: *Porphyry*

Altered plagioclase phenocrysts from 1mm to 8mm long comprise about 20-25% of this thin section and have been altered to various proportions of sericite, albite and chloritic clay. There are also mafic phenocrysts and microphenocrysts to 3mm long altered to chlorite, carbonate, quartz, and hematite with inclusions of primary opaque oxide. The groundmass is dominated by fine-grained orange albite to 0.2mm in grainsize with minor chlorite, microcrystalline opaque oxide and accessory apatite. Very minor sulphide is mostly pyrite with rare chalcopyrite.

Early clouded carbonate veinlets are followed by abundant hairline to 2mm possibly tension-gash veins of clear carbonate in an irregular array, without sulphides.

BOMRD0003 – 817.5m **Albite-hematite-chlorite-leucoxene-altered amygdaloidal basalt with amygdales filled with chlorite ± quartz ± carbonate and veins with albite ± carbonate ± chlorite.**

Field Note: *Altered andesitic volcanic with amygdales?*

Albitised unoriented plagioclase laths about 0.4mm long are abundant (55%) in this thin section with abundant interstitial material largely flooded by earthy hematite but with sufficient leucoxene to indicate former basalt rather than andesite. Small patches of green, nearly isotropic chlorite are also scattered but there is no evidence of former phenocrysts. Amygdales to 6mm long are mostly rich in chlorite but some have minor to abundant quartz and/or carbonate, and make up 3-5% of the thin section. Irregular veins, to 2.5mm wide, are also abundant and are mostly rich in small platy crystals of albite, locally with carbonate or chlorite, with some segments rimmed by albite with wide cores of carbonate.

This sample may be from an oxidised flow top.

BOMRD0003 – 830.5m **Breccia of albite-sericite-chlorite-leucoxene-hematite-altered fine-grained dolerite or coarse-grained basalt with hematite-rich fine-grained fragments, interstitial chlorite ± quartz ± carbonate and irregular carbonate veins**

Field Note: *Altered andesitic volcanic*

This sample seems to have been sheared and possibly fragmented, with areas to 1cm long retaining primary textures and interstitial areas of irregularly foliated chlorite ± carbonate and very minor quartz. The possible fragments have abundant albite-sericite-altered plagioclase laths to 1mm long and interstitial chloritised possible pyroxene as well as disseminated leucoxene derived from skeletal opaque oxide to 1mm in grainsize, suggesting former fine-grained dolerite or coarse-grained basalt. Small patched of hematite may represent oxide or sulphide.

One area has diffuse fragments to 3mm long altered to earthy hematite and quartz or albite ± carbonate, but the origin of these fragments is unclear, but they could represent a narrow chilled intrusion into the basalt.

Some of the chlorite-rich interstitial areas also contain irregular carbonate veins from hairline to 5mm wide and apparently disrupted or highly lenticular.

BOMRD0003 – 848.8m **Breccia of albite-chlorite-sericite-carbonate-hematite-leucoxene-altered dolerite with interstitial hematite, early carbonate and quartz veins and a later carbonate vein.**

Field Note: *Altered andesitic volcanic with hematite flooding/overprinting*

This sample is brecciated and has fragments of altered dolerite to 25mm or more in diameter with interstitial areas flooded by earthy hematite and containing fragments of albitised plagioclase and hematite-leucoxene ex-opaque oxide. Some interstitial areas are poor in fragments but others have abundant fragments and relatively sparse interstitial hematite.

The dolerite has albitised plagioclase to 2mm long with minor sericite and/or carbonate and interstitial pale green magnesian chlorite accompanied by hematite-leucoxene-altered skeletal opaque oxide to 1.5mm in diameter. Much of the chlorite is dusted with leucoxene and may have replaced pyroxene, but there are also lenses of chlorite that may be space filling and have almost isotropic pale green chlorite. Small areas of fine-grained mesostasis are composed of albitised fine-grained plagioclase with interstitial chlorite and/or carbonate and rare possible apatite. Hematite-filled fractures are common.

There are early lenticular veins with carbonate or quartz and a later crosscutting carbonate vein.

BOMRD0004 – 634.6m **Weakly sericite-chlorite-altered crowded dacite porphyry with plagioclase, hornblende and quartz phenocrysts, microphenocrysts of magnetite and titanite and sparse pyrite.**

Field Note: *Altered magnetite-bearing intermediate intrusive with disseminated pyrite and weak pervasive hematite alteration*

This sample is composed of crowded dacite porphyry with possibly 40-45% zoned plagioclase phenocrysts to 3mm long, 5% greenish-brown hornblende phenocrysts to 1.5mm long and 2-3% mostly bipyramidal quartz phenocrysts to 2mm in grainsize. There are also disseminated magnetite microphenocrysts and disseminated pyrite (<1%) partly in aggregates to 1mm long and smaller crystals of titanite (sphene). Some of the plagioclase phenocrysts contain sericite patches and some of the hornblende has weak to total chlorite alteration with secondary titanite. The groundmass is microcrystalline and apparently quartzofeldspathic with very minor apatite, titanite, hornblende and carbonate. Hematite alteration is not obvious in low-angle incident light.

BOMRD0004 – 636.5m **Sericite-chlorite-pyrite-altered crowded dacite porphyry with plagioclase and hornblende phenocrysts and magnetite microphenocrysts: cut by hairline carbonate veins.**

Field Note: *Altered magnetite-bearing intermediate intrusive with disseminated pyrite, biotite-altered blebs and bands that are feldspar-rich or dusted with hematite?*

This sample is again composed of crowded dacite porphyry with possibly 45-50% inequigranular plagioclase phenocrysts and microphenocrysts from 0.5mm to 6mm long, commonly zoned but with more abundant sericite compared to the previous sample. There is also about 5% hornblende as crystals and aggregates to 2mm long, more commonly altered to chlorite ± titanite, rather than to biotite as suggested in your notes. However, quartz phenocrysts are rare, small and rounded. Magnetite and fine-grained titanite are disseminated as microphenocrysts with magnetite also rimming a small probable amygdale filled with carbonate. Other small cavities are mostly filled with quartz, with some containing chlorite or carbonate as well as or instead of quartz. The groundmass is again microcrystalline and quartzofeldspathic. Minor pyrite is partly cubic and partly as irregular masses to 3mm in diameter, rarely rimming small cavities. Hairline carbonate veins are present.

BOMRD0004 – 642.7m **Weakly altered crowded dacite porphyry with plagioclase, hornblende and biotite phenocrysts as well as pyrite, titanite, apatite and rare zircon and an elongate possible xenolith with decussate biotite and granular plagioclase.**

Field Note: *Relatively unaltered magnetite-bearing intermediate intrusive; possibly globular biotite alteration in patches*

There seem to be fewer plagioclase phenocrysts in this thin section compared to the previous samples, with possibly 35-40% plagioclase phenocrysts mostly less than 2mm long with zones highlighted by sericite alteration. Minor hornblende occurs as phenocrysts to 3mm long with weak alteration to biotite and chlorite, but there are also sparsely disseminated biotite phenocrysts to 1.3mm long partly altered to clay or chlorite. Quartz phenocrysts are rare, small (to 1mm in diameter) and rounded. Accessories include pyrite, titanite and apatite but magnetite is rare or absent. Rare zircon was seen in a biotite phenocryst. The groundmass is again microcrystalline and quartzofeldspathic.

An irregular band, at least 15mm long and 1-4mm wide, represents a possible xenolith with irregularly disseminated granular plagioclase and decussate biotite about 0.5mm in grainsize, with plagioclase-rich areas also containing quartz and rare carbonate. Similar xenoliths have been interpreted as modified metasediment, and this seems likely in this sample, as there is abundant (~25%) biotite is estimated to be present.

BOMRD0004 – 648.0m **Sericite/clay and hematite-clouded crowded dacite porphyry with plagioclase phenocrysts and hornblende and biotite phenocrysts largely altered to chlorite as well as pyrite, titanite and axial plane in a clay-clouded quartzofeldspathic groundmass: cut by a composite vein with carbonate, pyrite ex-platy hematite, epidote and chlorite.**

Field Note: *Altered magnetite-bearing intermediate intrusive + disseminated pyrite with chlorite and earthy hematite alteration*

This sample is again crowded dacite porphyry with perhaps 45% plagioclase phenocrysts, to 3mm long, mostly clouded with sericite and clay. There are also chloritised phenocrysts of hornblende and biotite, locally with carbonate and epidote with very minor residual fresh biotite. Also disseminated are more abundant, mostly larger, euhedral or highly resorbed quartz phenocrysts to 3mm in diameter. Minor pyrite, titanite and apatite are disseminated, with titanite to 0.5mm in grainsize and pyrite to 0.8mm. The groundmass is possibly clay-clouded but is microcrystalline and quartzofeldspathic. Areas around a complex vein are weakly clouded with earthy hematite, mostly affecting the plagioclase phenocrysts.

The vein is mostly 3-4mm wide with parallel carbonate-filled fractures. It has zones of clouded carbonate rich in probably low-temperature pyrite that seems to have replaced micaceous hematite and small aggregates of chlorite and epidote. Later zones or veinlets are composed of clear granular carbonate and are parallel to, and mostly within the carbonate-pyrite vein.

APPENDIX 3

PETROPHYSICAL RESULTS
MESOSCALE LABORATORY DATA

Systems Exploration (NSW)
Pty Limited

Postal Address: Box 6001
Dural Delivery Centre
NSW 2158, Australia

Telephone: (02) 4579 1183
Fax: (02) 4579 1290
email: systemsexpl@bigpond.com

STUDY:	Barrick Gold of Australia Ltd	Project # 03/2009
DATE:	20 February 2009	**AREA:** Stuart Shelf
REFERENCE:	Brendan Howe email	
METHODS:	mass, inductive, galvanic	(velocity see Table 4)

DATA:	**Tables**	**Crossplots**
density, porosity	1	Fig P-D
mag k, em cond.	2	Fig k-D
galv. res, IP	3	Figs R_{ad}-R_{sat}, R_{sat}-WBD, R_{sat}-P_A, IP-WBD

SAMPLES: four (4) cores (split - half cores)

References on Techniques see:

Bertin, J & Loeb, J, 1976. *Experimental and Theoretical Aspects of Induced Polarisation.* Vol.1 [see 9.14: high resistivity -> high IP] Geopubl. Assoc. Geoexpl. Mon. 7; for IP see also Olhoeft, Geophysics, 1985, 2492; Nelson & VV, G 1983, 62; Mahan, R & S, GP, 1986, 743]

Clark, DA & Emerson, DW, 1991. *Notes on rock magnetisation characteristics in applied geophysical studies.* Explor. Geophys., 22, 547-555.

Emerson, DW, 1969. *Laboratory electrical resistivity measurements of rocks.* Proc. Aust. Inst. Min. & Metal., 230, 51-62 (incl. 4 electrode water bath IP technique).

Emerson, DW, 1990. *Notes on mass properties of rocks - density, porosity, permeability.* Explor. Geophys., 21, 209-216.

Emerson, DW & Yang, YP, 1997. *Insights from laboratory mass property crossplots.* ASEG Preview, 70, 10-14.

Yang, YP & Emerson, DW, 1997. *Electromagnetic conductivities of rock cores: Theory and analog results.* Geophysics, 62/6, 1779-1793 (incl. mag. k by induction coil).

Reference to high resistivity terrains:

Emerson, DW & Yang, YP, 1998. *Physical properties of fractured rock - bulk resistivity.* ASEG Preview, 77, 26-27. { RELEVANT TO THESE SAMPLES

Important Notes:

_ These petrophysical data results relate to laboratory measurements on small samples. The extrapolation of these results to large masses of in situ material should take account of sampling statistics, and other relevant variables e.g. water saturation in electrical studies, anisotropy, jointing etc.

_ The results contained herein relate only to the material submitted for testing and no responsibility is accepted for the representative nature or otherwise of the material submitted.

_ Non uniformity, variability, texture, fabric and structure of lithological formations should be kept in mind when assessing mesoscale petrophysics quantities derived from a limited number of samples. Tested rock *material* properties may not simply represent those of the overall rock *mass*; other information may be required.

_Errors: Usually on a given sample or subsample, and under fixed conditions, the root mean square error of an individual measurement is better than 1% when taking into account uncertainties in geometry of the specimen of rock material and the instrument specifications between calibrations. However, in no way can this indicative measured value be regarded as a definitive characteristic of the rock mass for which the accurate depiction of a physical property requires adequate and careful sampling (rarely done in routine test programs owing to considerations of cost and time) and cognisance of other variables, including lab. artefacts.

SYSTEMS EXPLORATION (NSW) PTY LIMITED — **Table 1**

Postal Address: Box 6001, Dural Delivery Centre, NSW, 2158
Telephone: (02) 4579 1183: Fax: (02) 4579 1290

MASS PROPERTIES

Project: 03/2009

Date: 14 February 2009

STUDY Barrick Gold of Australia Ltd — Sw: water sat. level in pores

TECHNIQUES mass properties, vac sat technique, occluded voids assumed minor

REFERENCE B Howe — saturant (in vacuum): fresh water

VALUES ROUNDED

SAMPLES			MESOSCALE PHYSICAL PROPERTIES				air dry condition	
			Sw -> 0%		(inferred)	Sw->100%	"as received"	
			dry bulk	apparent	SGGA	WBD	estimated	density
SUBSAMPLES			density	porosity P_A	(composite,	wet (sat.)	orig.	in orig.
cores			DBD	(water accessible	apparent)	bulk dens.	water	condition
		lithology	(105°C dry)	void vol. wrt total vol)	grain dens.		sat.	
	(depth m)		g/cm^3	%	g/cm^3	g/cm^3	S_w %	g/cm^3
BOMRD0001								
BILLIAT, 1-4								
1l		inter intrusive +				2.69		
1s		mtt, hem, py	2.65	5.3	2.80	2.71	11	2.66
2l		Duff Ck Beds				2.68		
2s		qtzite + chlor/ser	2.66	5.5	2.83	2.73	18	2.69
3l		Cad. Volc				2.84		
3s		andesite + hem,	2.82	3.1	2.91	2.85	34	2.83
3p		carbonate				2.85		
4l		Cad. Volc				2.83		
4si		andesite + chlorite,	2.82	1.4	2.86	2.83	69	2.83
4sii		carbonate	2.85	1.2	2.88	2.86	78	2.86
4p						2.83		

SYSTEMS EXPLORATION (NSW) PTY LIMITED — **Table 2**

Postal Address: Box 6001, Dural Delivery Centre, NSW, 2158
Telephone: (02) 4579 1183: Fax: (02) 4579 1290

INDUCTIVE TESTS

Project: 03/2009

Date: 23 Jan 2009

STUDY Barrick Gold of Australia Ltd

TECHNIQUES induction coils mag k 460 Hz, EM cond>100 kHz

REFERENCE B Howe

SAMPLE TREATMENT: none

tested as is

SAMPLES		MESOSCALE PHYSICAL PROPERTIES (LAB.)						
			small subsamples				large subsamples	
				average		average	lab limit 0.1 S/m	
			mag k	mag k	density	density	EM cond.	
cores		lithology			approx.	approx.	σ	comments
	(depth m)		SIx10^{-5}	SIx10^{-5}	g/cc, t/m^3	g/cc, t/m^3	S/m	
BOMRD0001								
BILLIAT, 1-4								
1		inter intrusive +	6311	5928	2.71	2.71	mag loss response effects, but does	
		mtt, hem, py	5546		2.71		not seem conductive	
2		Duff Ck Beds	25	25	2.62	2.63	→ 0	
		qtzite + chlor/ser	25		2.64			
3		Cad. Volc	43	45	2.85	2.85	→ 0	
		andesite + hem,	48		2.85			
		carbonate						
4		Cad. Volc	58	56	2.83	2.83	→ 0	
		andesite + chlorite,	54		2.83			
		carbonate						

SYSTEMS EXPLORATION (NSW) PTY LIMITED — **Table 3**

Postal Address: Box 6001, Dural Delivery Centre, NSW, 2158
Telephone: (02) 4579 1183: Fax: (02) 4579 1290

GALVANIC TESTS

Project: 03/2009

Date: 23 February 2009

STUDY Barrick Gold of Australia Ltd

TECHNIQUES galvanic electric resistivity and IP

REFERENCE B Howe

SAMPLE TREATMENT:

VACUUM SATURANT: 10 ohm m 25°C soln

SAMPLES		MESOSCALE PHYSICAL PROPERTIES (LAB.)						regard lab IP data as relative maxima	
		mostly measured along half-core axes (l: large subsample)							
					galvanic electrical resistivity				
				air dry, as received		sat. state		possible	IP effect
cores					ρ_t	WBD	ρ_o	IP	as equivalent
		lithology	texture		1 kHz		1 kHz	cause	chargeability
	(depth m)				ohm m	g/cc	ohm m		ms
BOMRD0001									
BILLIAT, 1-4									
1	l	inter intrusive +		⊥ fol	5448	2.69	218	mh	39
	s	mtt, hem, py				2.71		mtt	
								ms	
2	l	Duff Ck Beds		⊥ fol	39872	2.68	6637		
	s	qtzite + chlor/ser				2.73		ms	11
3	l	Cad. Volc			732	2.84	277		
	s	andesite + hem,				2.85		mh	78
	p	carbonate			672	2.85	217		
4	l	Cad. Volc			9547	2.83	2525		
	si	andesite + chlorite,				2.83			
	sii	carbonate				2.86		mh	90
	p					2.83	1625		

PETROPHYSICAL RESULTS
MESOSCALE LABORATORY DATA

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STUDY:	Barrick Gold of Australia Ltd	Project # 03/2009
DATE:	23 February 2009	**AREA:** Stuart Shelf
REFERENCE:	Brendan Howe email	
METHODS:	ULTRASONIC VELOCITY under uniaxial load: note that ultrasonic velocities can exceed low frequency seismic velocities (dispersion)	

DATA:	**Table**	**Crossplot**
velocity	4	Fig. V-D

SAMPLES: four (4) cores [split cores, small diameter ~ 5cm]

References

Emerson, DW, 1990. *Notes on mass properties of rocks - density, porosity, permeability.* Explor. Geophys., 21, 209-216.

Gregory, AR, 1977. *Aspects of rock physics from laboratory and log data that are important to seismic interpretation.* AAPG Memoir 26, 15-46 [see p.26 for uniaxial load technique]

ISRM, 1978. *Suggested method for determining sound velocity.* Inst. J. Rock Mech. Min. Sci. & Gemoech. Abstr., 15, 55-58. [and see also: ASTM, 1985. *Laboratory determination of pulse velocities and ultrasonic elastic constants of rock.* ASTM D2845-83]

Wyllie, RJ, Gregory, AR & Gardner, GHF, 1958. *An experimental investigation of factors affecting elastic wave velocities in porous media.* Geophysics, 23, 459-493. (see Fig. 2, p.463, uniaxial load technique)

Important Notes:

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_ The results contained herein relate only to the material submitted for testing and no responsibility is accepted for the representative nature or otherwise of the material submitted.

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SYSTEMS EXPLORATION (NSW) PTY LIMITED
Postal Address: Box 6001, Dural Delivery Centre, NSW, 2158
Telephone: (02) 4579 1183: Fax: (02) 4579 1290

Table 4

Project: 03/2009

Date: 23 February 2009

STUDY Barrick Gold of Australia Ltd

TECHNIQUES ultrasonic Pwave velocity (500 kHz) under uniaxial load

REFERENCE B Howe

SAMPLES		MESOSCALE PHYSICAL PROPERTIES (LAB.)						
						sat state		
cores			app porosity	WBD	sonic transit	Pwave		acoustic
		lithology/texture	%	g/cc	w.r.t.	velocity		impedance
	(depth m)		[Table 1]	t/m^3	foliation	m/s		$kt/m^2/s$
BOMRD0001								
BILLIAT, 1-4								
1		inter intrusive +	5.3	2.69	⊥	4746		12.8
		mtt, hem, py						
2		Duff Ck Beds	5.5	2.68	oblique	5543		14.9
		qtzite + chlor/ser						
3		Cad. Volc	3.1	2.84	oblique	5503		15.6
		andesite + hem,						
		carbonate						
4		Cad. Volc	1.3	2.83	oblique	5861		16.6
		andesite + chlorite,			⊥	5757		
		carbonate						

APPENDIX 4

BARRICK GOLD OF AUSTRALIA LIMITED

(ABN 19 008 143 137)

PROJECT 5022

OODNADATTA JV PROJECT

EL3835

REHABILITATION OF EL 3835

OODNADATTA JV DRILL PROGRAM

As per EWA (EL3835-C2008/02873 0002196/SC)

Map Sheet 250K: SG53-15 (Oodnadatta)
Map Sheet 100K: 6042

DISTRIBUTION:

1. BGAL Perth
2. Primary Industry and Resources – South Australia PIRSA

Stephen Brown
Project Geologist

March 2009

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SUMMARY

This report details the rehabilitation carried out following the completion of the Oodnadatta JV drill program conducted upon EL3835. The report briefly outlines the drill program and contains a number of representative photographs of the drill sites and access tracks taken prior to the drill program, during the drill program and after rehabilitation as per guidelines detailed in the EWA (EL3835 – C2008 / 02873 0002196 / SC).

The drill program managed by Barrick Gold of Australia (Barrick) consisted of four drill holes (B0MRD0001 – BOMRD0004) at three sites, and was completed in two stages during 2007-2008 (Table 1). A further drill site (Thring) was also prepared but never drilled. The rehabilitation of this site is also included within the report.

TABLE 1: Drill Program details

HOLE ID	BOMRD0001	BOMRD0002	BOMRD0003	BOMRD0004
Collar Location – AGD84z53	552,722mE 6,924,557mN	558,680mE 6,908,724mN	559,650mE 6,933,487mN	552,730mE 6,924,520mN
EOH Depth (m)	430m	961.2m	902.7m	804.3m
Drill Contractors	Welldrill Pty Ltd – mud-rotary pre-collar	Welldrill Pty Ltd – mud-rotary pre-collar Boart Longyear – diamond tail	Watson's Drilling Pty Ltd - mud-rotary pre-collar - diamond tail	Watson's Drilling Pty Ltd - mud-rotary pre-collar Boart Longyear - diamond tail
Date drilled	October 2007	November - December 2007	September - December 2008	November - December 2008
GAB (Great Artesian Basin)	• 197-243m (Cadna-owie +Algebuckina Formations) • No water sample collected due to mud-rotary drilling technique	• 69 -138m (Cadna-owie + Algebuckina Formations) • The GAB is artesian (approx flow rate ~1,000 gallons/hr) • No water sample collected due to mud-rotary drilling technique	• 245-302m (Cadna-owie + Algebuckina Formations) • - No water sample collected due to mud-rotary drilling technique	• 195-273m (Cadna-owie + Algebuckina Formations) • No water sample collected due to mud-rotary drilling technique
Hole Details	• 0 - 430m - Mud-rotary Pre-collar	• 0 - 309m - Mud-rotary Pre-collar / 4" ID Steel casing • 309 – 339.4m - HQ diamond core • 339.4 – 961.2m - NQ2 diamond core	• 0 - 366m - Mud-rotary Pre-collar / 4" ID Steel casing • 366 – 423m - HQ diamond core • 423 – 902.7m - NQ2 diamond core	• 0 - 540m - Mud-rotary Pre-collar / 4" ID Steel casing • 540 – 595.7m - HQ diamond core • 595.7 – 804.3m - NQ2 diamond core

HOLE ID	BOMRD0001	BOMRD0002	BOMRD0003	BOMRD0004
Gear left in hole	• 0-1m 10" Steel casing (ID) • 0-24m 8" Steel casing (ID)	Steel casing was pressure cement grouted in place during the drill process • 0-1m 10" Steel casing (ID) • 0-24m 8" Steel casing (ID) • 0-309m 4" Steel casing (ID)	Steel casing was pressure cement grouted in place during the drill process • 0-1m 10" Steel casing (ID) • 0-24m 8" Steel casing (ID) • 0-366m 4" Steel casing (ID)	Steel casing was pressure cement grouted in place during the drill process • 0-1m 10" Steel casing (ID) • 0-24m 8" Steel casing (ID) • 0-540m 4" Steel casing (ID)
Current status of the Hole	• The hole has been cemented as per PIRSA guidelines. • Hole was back filled from EOH to surface with cement on completion by Welldrill (the hole was NOT cased with 4" steel casing). • Steel casing has been cut ~40cm below the ground surface and a steel plate welded onto the top of the casing.	• The hole has been cemented as per PIRSA guidelines. A Van-Ruth plug was set at a depth of 312m, and cement placed from the plug to the surface. • Steel casing has been cut ~40cm below the ground surface and a steel plate welded onto the top of the casing.	• The hole has been cemented as per PIRSA guidelines. A Van-Ruth plug was set at a depth of 369m, and cement placed from the plug to the surface. • Steel casing has been cut ~40cm below the ground surface and a steel plate welded onto the top of the casing.	• The hole has been cemented as per PIRSA guidelines. A Van-Ruth plug was set at a depth of 490m, and cement placed from the plug to the surface. • Steel casing has been cut ~40cm below the ground surface and a steel plate welded onto the top of the casing.
Drill site status	• All sumps have been filled in, and have topsoil placed over them. • All samples were removed from the drill site as part of the drilling process • The drill site has been returned to the natural	• All sumps have been filled in, and have topsoil placed over them. • All samples were removed from the drill site as part of the drilling process • The drill site has been returned to the natural	• All sumps have been filled in, and have topsoil placed over them. • All samples were removed from the drill site as part of the drilling process • The drill site has been returned to the natural	• All sumps have been filled in, and have topsoil placed over them. • All samples were removed from the drill site as part of the drilling process • The drill site has been returned to the natural

HOLE ID	BOMRD0001	BOMRD0002	BOMRD0003	BOMRD0004
	contour of surrounding land surface • Pad area is clean of rubbish • The fence around the sumps has been removed	contour of surrounding land surface • Plastic lining in the sumps was ripped prior to rehabilitation. • Pad area is clean of rubbish • The fence around the sumps has been removed	contour of surrounding land surface • Plastic lining in the sumps was ripped prior to rehabilitation. • Pad area is clean of rubbish • The fence around the sumps has been removed	contour of surrounding land surface • Plastic lining in the sumps was ripped prior to rehabilitation. • Pad area is clean of rubbish • The fence around the sumps has been removed
Access track status	• The 850m long track created for access to the BOMRD0001 & BOMRD0004 drill holes has been rehabilitated as per PIRSA guidelines	• The 550m long track created for access the drill hole has been rehabilitated as per PIRSA guidelines	• The 700m long track created for access the drill hole has been rehabilitated as per PIRSA guidelines	• The 850m long track created for access to the BOMRD0001 & BOMRD0004 drill holes has been rehabilitated as per PIRSA guidelines
Thring target (never drilled)	• 6917807mN 555396mE (AGD84z53) • Sumps prepared for drill program and rehabilitated following decision not to drill.			

SITE PHOTOGRAPHS

PRE-DRILLING

Plate 1: BOMRD0001 & BOMRD0004 Drill site – with members of the Heritage survey team - looking NE



Plate 2: BOMRD0002 Drill site Initial reconnaissance – looking SE



Plate 3: BOMRD0003 Drill site prior to drilling with members of the Heritage Survey team at the proposed collar – looking SE



Plate 4: Thring target prior to drilling– looking SE



DURING THE DRILL PROGRAM

Plate 5: BOMRD0001 Drill site with sited collar. Soil from sumps has being removed and stockpiled for rehabilitation. Looking NE from photo point peg (552710mE 6924485mN *AGD84z53*)



Plate 6: BOMRD0002 Drill site - Soil from sumps has being removed and stockpiled for rehabilitation. Looking E from photo point peg (558640mE 6908730mN *AGD84z53*)



Plate 7: BOMRD0003 Drill site. Soil from sumps has being removed and stockpiled for rehabilitation. Looking E from photo point peg (559600mE 6933510mN *AGD84z53*)



Plate 8: BOMRD0002 Drill site access track - Soil stockpiles from sumps are visible at drill site. Looking SE (558270mE 6909150mN *AGD84z53*)



DRILL SITES POST- REHABILITATION

Plate 9: BOMRD0001 & BOMRD0004 Drill site following final rehabilitation. Looking NW (552760mE 6924500mN *AGD84z53*)



Plate 10: Thring site following final rehabilitation (proposed drill hole was not drilled). Looking N (555390mE 6917780mN *AGD84z53*)



Plate 11: BOMRD0002 Drill site – Post- rehabilitation. Looking E from photo point peg (558640mE 6908730mN *AGD84z53*)



Plate 12: BOMRD0002 Drill site access track – Post-rehabilitation Looking SE (558270mE 6909150mN *AGD84z53*)



Plate 13: BOMRD0002 Drill collar with plate welded over casing.



Plate 14: BOMRD0003 drill site following rehabilitation.



APPENDIX 5

EL 3835
Oodnadatta JV
Expenditure Statement – 1 July 2008 to 31 March 2009

Activity	*EL3835 - Expenditure 1 July 2008 to 31 Mar 2009*
Geological Activites	238,109.05
Geophysical Activities	5112.23
Field Supplies	56,436.17
Travel Costs	53319.18
Field Camp Activities	10,820.23
General Tenement Costs	0
Administration/Overheads	8,646.69
PIRSA Annual Rents	8291.6
Drilling Activities	796,791.77
Rehabilitation Activities	60,724
TOTAL	**$1,238,251.22**

ABN 54 093 278 436

Project Name:	Oodnadatta Project
Tenement Number:	EL3835
Tenement Operator:	Integra Mining Limited
Tenement Holder:	Integra Mining Limited
Report Type:	Final Technical
Report Title:	Final Technical Report for Oodnadatta Project – EL3835 for period 12 July 2009 to 11 July 2010
Report Period:	12 July 2009 to 11 July 2010
Author:	J.E. Murphy
Date of Report:	30 July 2010

Distribution:

1 Integra Mining Limited

1 Primary Industries and Resources SA

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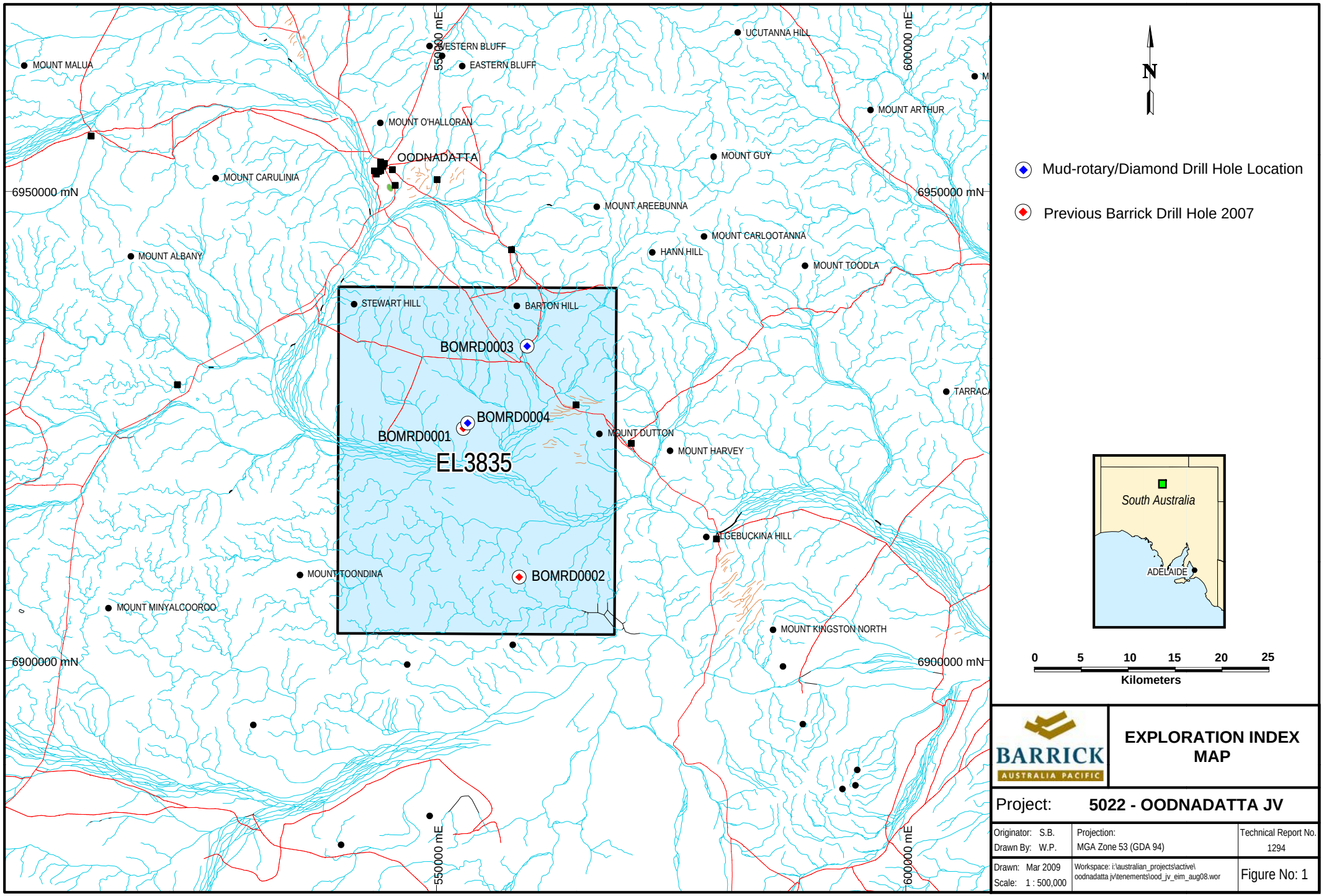
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Summary

This report details exploration carried out on Oodnadatta Project tenements EL3835 during the period 12th July 2009 to 11th July 2010. No exploration activities were conducted by Integra Mining Limited during the reporting period. An information memorandum was completed on EL3835 during the current work year in order to search for a joint venture partner to advance exploration on the project. No interest in the Oodnadatta was shown and the tenement was allowed to lapse on the 11th July 2010. Exploration completed on the project during previous work years by previous joint venture partner Barrick Gold of Australia comprised the drilling of four mud-rotary/ diamond drill holes (**Figure 1**). Results from the drilling program were disappointing with only one significant intersection recorded of 2m @ 7.95 g/t Au from 768m in BOMRD0003.

The Oodnadatta Project is located in the central north of South Australia, approximately 20 kilometres SE of Oodnadatta (**Figure 2**).

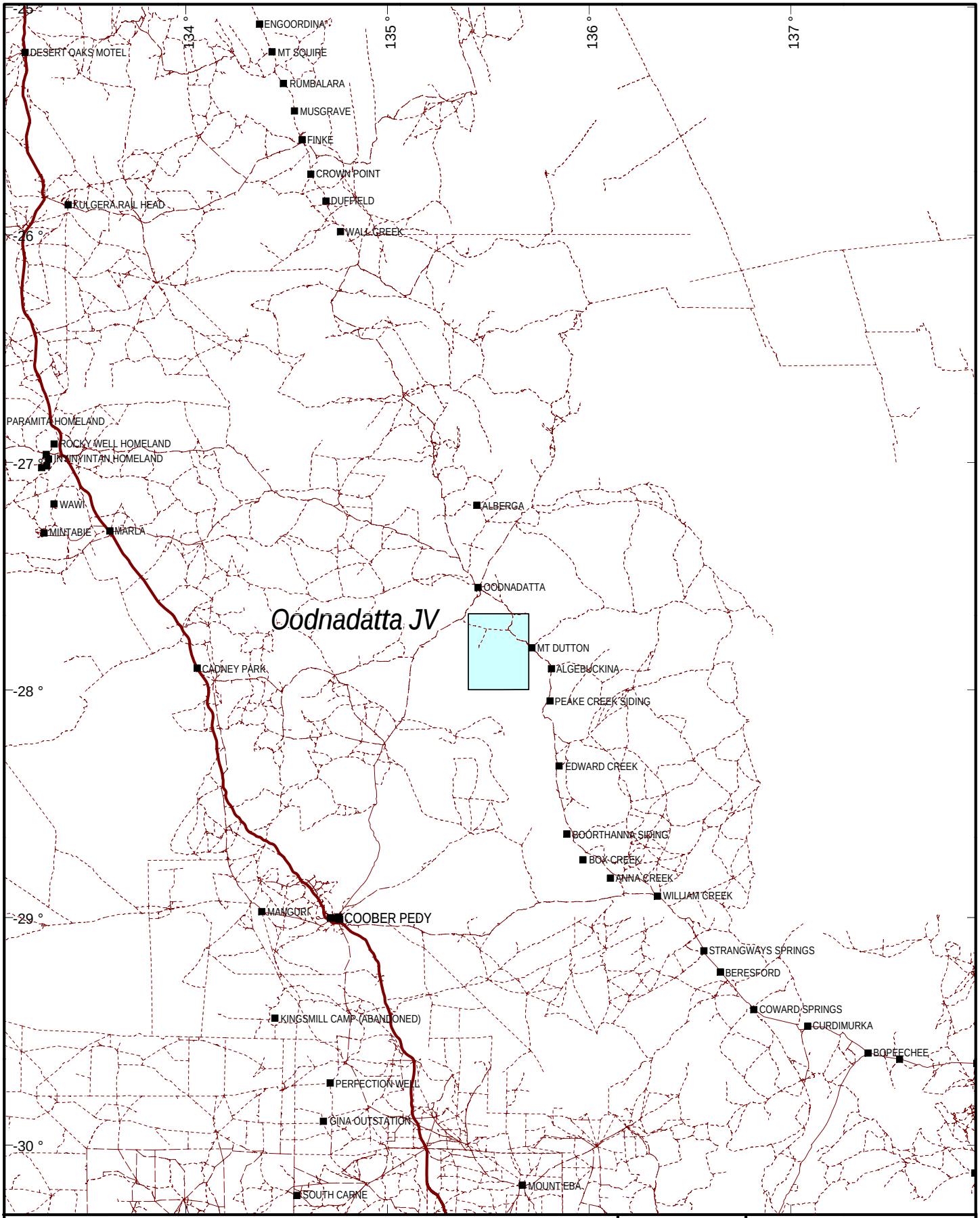


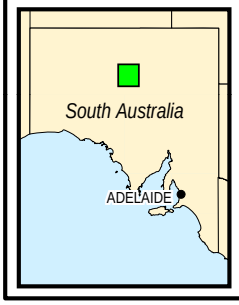
BARRICK AUSTRALIA PACIFIC

EXPLORATION INDEX MAP

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: MGA Zone 53 (GDA 94)	Technical Report No. 1294
Drawn: Mar 2009 Scale: 1 : 500,000	Workspace: i:\australian_projects\active\oodnadatta jv\tenements\ood_jv_eim_aug08.wor	Figure No: 1





N

0 25 50 75 100 125

Kilometers

BARRICK AUSTRALIA PACIFIC

LOCATION

Project: **5022 - OODNADATTA JV**

Originator: S.B. Drawn By: W.P.	Projection: Latitude/Longitude (GDA 94)	Technical Report No. 1294
Drawn: Mar 2009 Scale: 1 : 2.5m	Workspace: i:\australian\projects\active\oodnadatta_jv\tenements\ood_jv_loc.wor	Figure No: 2

Introduction

The Oodnadatta project area is located approximately 400 kilometres north northwest of Olympic Dam, within the vicinity of the major G2 Corridor, the Gawler Craton margin structure interpreted as hosting the Olympic Dam copper-uranium-gold and Mount Gunson copper deposits.

The Oodnadatta area is considered to have highly prospective gravity/ magnetic inversion features consistent with well developed magnetic/ haematite alteration systems associated with Iron-Oxide Copper Gold (IOCG) – style mineralisation, similar to Olympic Dam and Prominent Hill.

Tenure Details

Oodnadatta licence EL3835, which comprises an area of 1091 km^2, was granted to Integra in replacement of EL2936 on the 12th July 2007. In November 2006 Barrick Gold of Australia Limited (Barrick) signed a Farm-in agreement on licence EL3835 with Integra, whereby Barrick could acquire an 80% interest by sole funding of exploration. Barrick withdrew from the agreement in March 2009.

Location and Access

The Oodnadatta Project consists of a single tenement – EL3835, which is situated approximately 20 km SE of Oodnadatta in South Australia. Oodnadatta is situated 750km north-northwest of Adelaide and 190km north-northeast of Coober Pedy. Access from Oodnadatta to the tenement is via the un-sealed Oodnadatta Track and various station tracks (**Figure 1**). The project area is situated upon Allandale Station.

Historical Exploration

Previous exploration within the Oodnadatta tenement has been conducted by Shell Development (Australia) Pty Ltd, Getty Oil Development Co. Ltd, Delhi Australian Petroleum Ltd and Sapphire Mines NL. Early exploration focused on petroleum (in the deep basin sediments) coal (Permian sediments) and diamonds. Exploration drilling in the Oodnadatta tenement area is mainly restricted to the thick basin sediments which cover the Oodnadatta area. These activities are summarised as follows;

- **Shell Development (Australia) Pty Ltd – (1974)**

Shell Development (Australia) Pty Ltd drilled one drill hole in the Oodnadatta Project area. SDA 15, drilled in 1974, was testing for possible coal seams associated with the Permian basin sediments. The hole failed to intersect the Permian sediments and was converted into a water bore.

- **Getty Oil Development Co. Ltd - (1984-5)**

Getty Oil Development Co. Ltd in the mid 1980's drilled a number of exploration drill holes within the project area targeting coal within the Permian basin sediments. Some of the drill holes intersected uneconomic thin coal bands within the Mt Toondina formation.

- **Delhi Australian Petroleum Ltd (Santos) - (~1984)**

Delhi Australian Petroleum Ltd conducted a number of regional seismic lines in the general Oodnadatta area to aid petroleum exploration. These were carried out using the vibroseis technique providing deep penetration. The 2D survey lines provide details on the basin cover sequence that occurs throughout the project area and in places crystalline ?basement.

- **Sapphire Mines NL (~1994)**

Sapphire Mines were targeting diamonds and drilled 3 holes within the Oodnadatta tenement area. Drill hole K5M1 ended at 210m depth in Bulldog Shale, K5M2 finished in Cadna-owie formation sediments at a depth of 253m and K3M1 ended within the Bulldog Shale Formation at 120m depth. No kimberlite pipes, diamonds or indicator minerals were intersected by the drilling program.

Exploration Rationale

The Oodnadatta project was selected as an area with the potential to host Iron Oxide Cu-Au mineralisation similar to Olympic Dam and Prominent Hill. The criteria used in the area selection included proximity to craton scale structures, discrete coincident magnetic and gravity highs, margin of "magnetically active" domains and regional scale alteration.

Geology

Regional Geology

The Oodnadatta tenement is located at the northern margin of the Gawler Craton, South Australia. The area is partly covered with recent Cainozoic sediments which overlie a thick package of flat lying Cretaceous to Cambrian aged sediments (Eromanga, Arckaringa and East Officer basins) and NeoProterozoic sediments and volcanics of the Adelaidean Geosyncline Arkaroola Subgroup.

Basement outcrop in the area is restricted to the Peake and Denison Inliers which crop out approximately 15km to the southeast of the project area. These comprise dominantly a thick

sequence of PalaeoProterozoic-Mesoproterozoic meta-sediments and basal volcanics which were deformed and intruded by intermediate and basic igneous and volcanic rocks and diapiric structures during the Palaeozoic Delamerian Orogeny. Large scale northwesterly-trending crustal-scale lineaments occur in the project area (O'Driscolls G2 and G9D lineament corridors) and can be observed in the regional geophysics. Associated with these crustal scale lineaments are smaller scale northeast trending structures.

The Jurassic-Cretaceous aged Eromanga Basin can be divided into three packages – a lower terrestrial unit (Algebuckina Sandstone and Cadna-owie Formation – Great Artesian Basin), intervening marine sequence (Bulldog Shale and Oodnadatta Formation) and upper terrestrial unit (Winton and Mackunda Formation). The Early Permian to late Carboniferous Arckaringa Basin is thought to underlie some areas in the Oodnadatta area. Arckaringa Basin sediments include the basal Boorthanna Formation (glacigene sequence with marine upper facies) upon which the Stuart Range Formation (homogeneous marine shales and siltstones), and Mount Toondina Formation (terrestrial siltstones, coal and carbonaceous shale grading to sandstone and lacustrine shales) overlie.

Interpreted to underlie the Arckaringa Basin sediments in the Oodnadatta area are sediments belonging to the Cambrian-aged East Officer Basin (Cootanoorina Formation – dolomitic sandstones to mudstones), and marine dominated sediments belonging to the NeoProterozoic Adelaidean Geosyncline – Arkaroola Subgroup.

Within the eastern portion of the tenement (Mount Dutton) and approximately 10km to the east of the tenement (Algebuckina Hill) are two small Neo-Palaeoproterozoic inliers. At Mount Dutton the Neoproterozoic Curdimurka Subcrop (siltstone, sandstone and dolomite) form a small hill while at Algebuckina Hill an unnamed Palaeoproterozoic sequence comprising schist, gneiss, quartzite and pegmatite outcrops.

Crystalline basement in the Oodnadatta area is thought to be represented by the Palaeoproterozoic Peake Metamorphics, which consist of un-named metamorphics, Baltucoodna Quartzite, Unnamed schists, and the Tidnamurkuna Volcanics. This sequence may be intruded by the Wirriecurrie Granite (Early Proterozoic).

Previous Exploration – Integra Mining Limited & Barrick Gold

In 2006 ReLODE (the precursor company to Integra) commissioned 3D geophysical modelling using gravity and magnetic parameters derived from the Olympic Dam deposit to identify areas within the tenement where the gravity and magnetic responses are indicative of alteration and mineralisation styles associated with IOCG deposits. ReLODE completed three diamond drill holes to test interpreted coincident magnetic/gravity anomalies at the Ockenden and Toondina prospects. Holes TNA001 and TNA002 were drilled in the Toondina Dam area on the southern boundary of EL3835 and intersected unmetamorphosed mafic volcanics (?Neoproterozoic) unconformably overlying Palaeoproterozoic gneisses of the Peake Metamorphics. Weak mineralisation (chalcopyrite) was associated with albite+chlorite+hematite alteration. A third hole (OCK001) also targeting a gravity (+ weak magnetic) anomaly intersected hematite-chlorite altered mafic volcanics (?Neoproterozoic).

Integra Mining Ltd, prior to the Barrick JV, drill tested a gravity anomaly (Borthanna target) with a single hole (BOD001) which failed to intersect crystalline 'basement'. The hole finished at a depth of 336m within the ?Stuart Range Formation (carbonaceous shales).

During the first quarter of 2007 an airborne magnetic survey and a ground gravity survey were conducted over the Oodnadatta tenement for Barrick Gold of Australia Limited. In 2007 Barrick drilled two mud-rotary diamond (MRD) holes to test two gravity anomalies and conducted a petrological study on the mud-rotary chips and diamond core. Drill hole BOMRD001 failed to intersect crystalline basement and was abandoned at 430m before reaching target depth. The

hole intersected a thick package of basin sediments and finished within a fine-grained sedimentary package consisting of carbonaceous shales/mudstones with lesser fine-grained sandstone (?Mt Toondina Formation). The source of the gravity anomaly remains un-tested.

The second hole (BOMRD0002) was completed to a final depth of 961.2m. The hole intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina sandstone (Eromanga Basin), Mt Toondina and Stuarts Range Formation (Arckaringa Basin) before intersecting a very thick package of ?Cootanoorina Formation sediments. No significant intersections were recorded from either hole.

In late 2007 Primary Industries and Resources South Australia completed an airborne gravity survey over the entire extent of the Oodnadatta Project area, as part of their Northern G2 PACE Gravity survey (**Figure 3**).

In 2008 Barrick completed two MRD drill holes which were positioned to test large coincident gravity-magnetic anomalies. The first drill hole (BOMRD0003) was drilled to a depth of 902.7m and intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina Sandstone (Eromanga Basin), before intersecting quartzite, with interbedded minor siltstone to dolomictic mudstone and shale (Neoproterozoic ?Duff Creek Beds). Underlying the sedimentary package were andesitic volcanics (?Cadlareena Volcanics) which included thin, rare quartz-+feldspar porphyry intrusions. The volcanics displayed patchy to pervasive hematite-chlorite+-sericite-carbonate alteration throughout, with rare zones of earthy hematite overprinting. Only rare occurrences of trace sulphide (pyrite +- trace chalcopyrite) were logged throughout the hole. One significant intersection was recorded from BOMRD0003 (2m @ 7.95 g/t Au from 768m) possibly associated with a narrow carbonate-chlorite vein at 768.5m.

The second hole (BOMRD0004) was completed to a final depth of 804.3m and positioned approximately 20m from a previous Barrick drill hole in which the pre-collar failed to reach

'bed-rock' (BOMRD0001). BOMRD0004 intersected a thick package of basin sediments which included the Bulldog Shale, Cadna-owie Formation and Algebuckina Sandstone (Eromanga Basin), Mt Toondina and Stuarts Range Formation (Arckaringa Basin) before intersecting a thick package of Cambrian ?Cootanoorina Formation sediments containing dacitic porphyry intrusive. Rare occurrences of trace pyrite were logged throughout the hole.

The drill hole locations are shown in **Figure 4**.

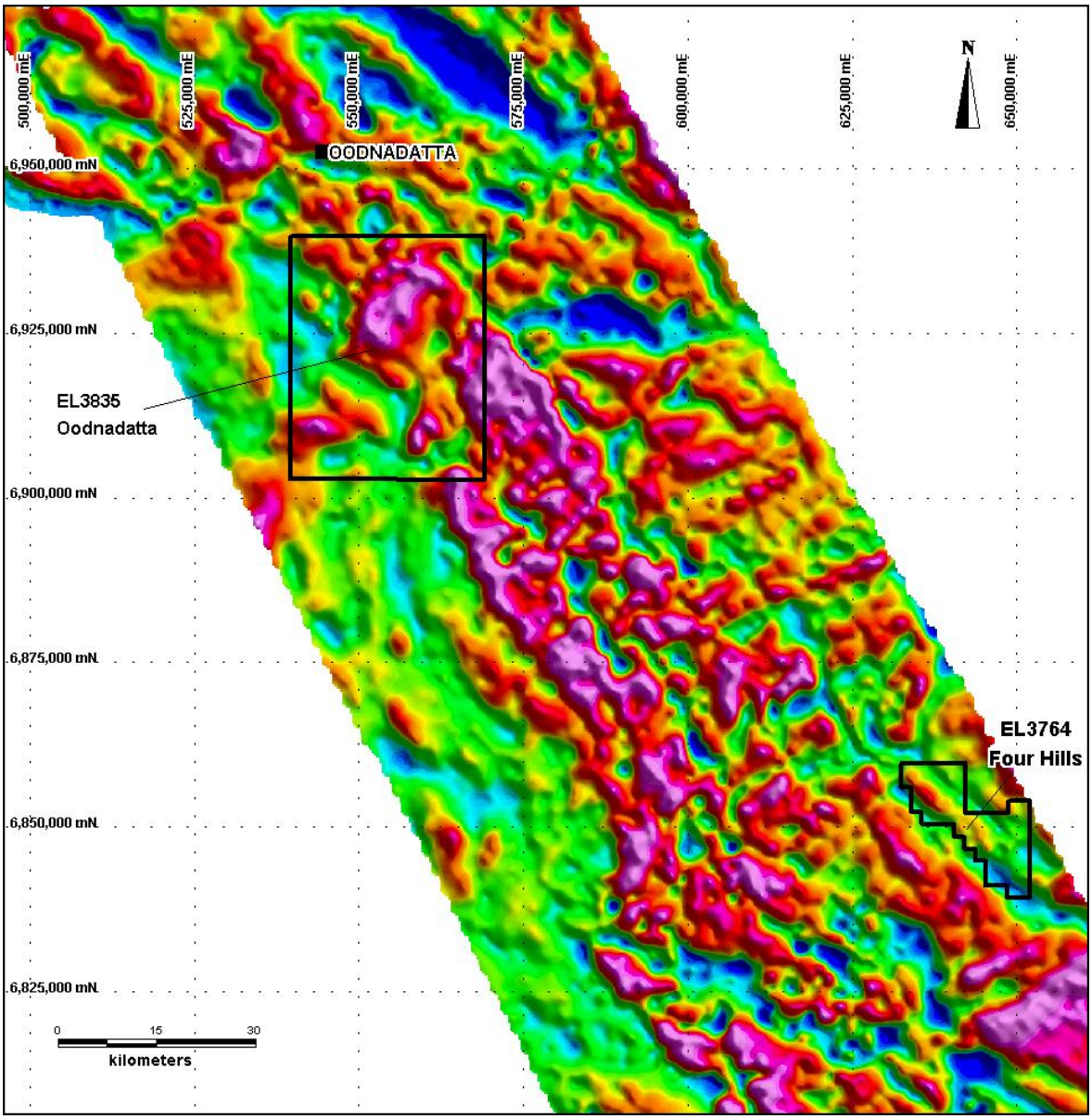


Figure 3. Northern G2 PACE – First Derivative Bouguer Gravity Image

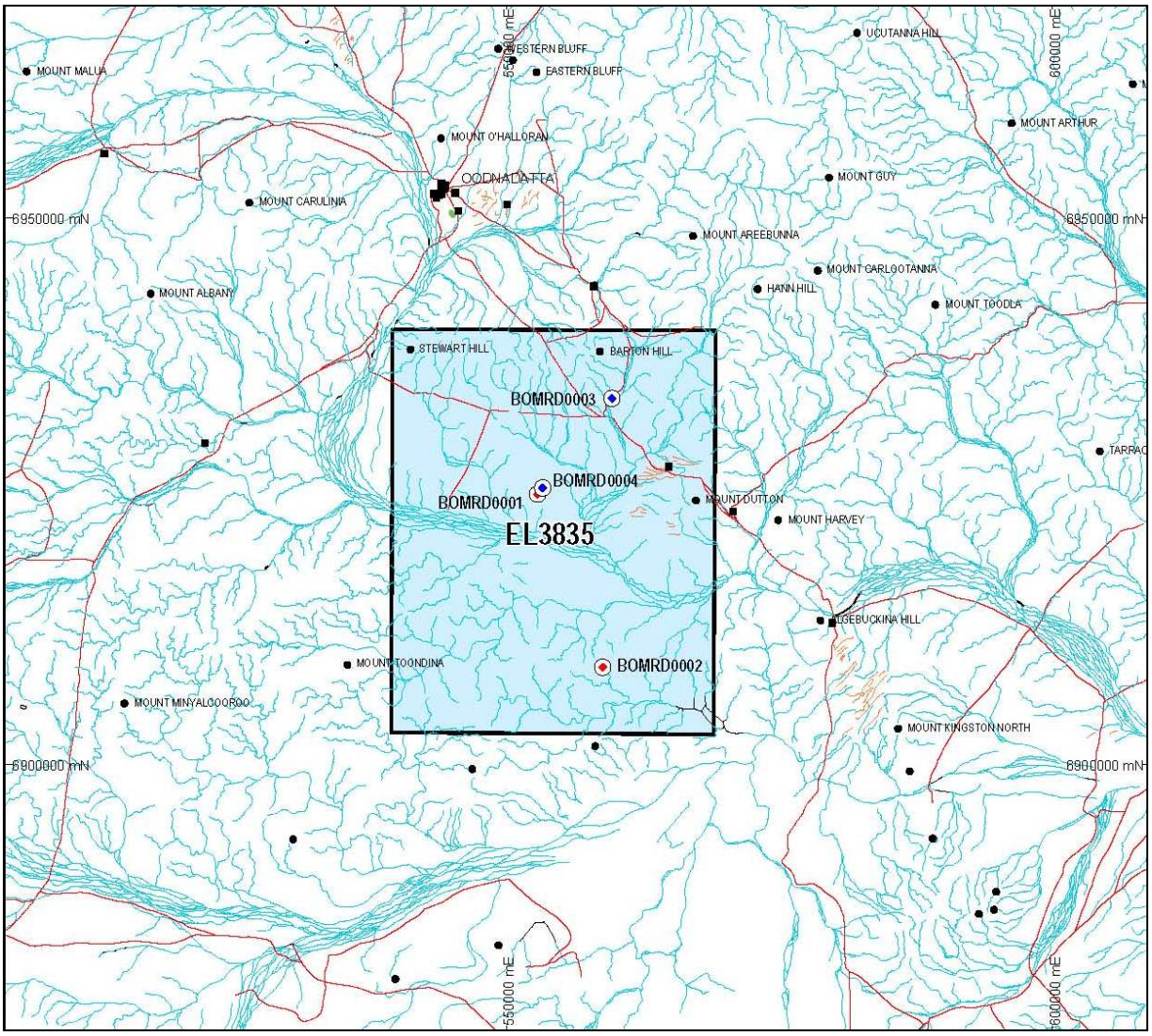


Figure 4. Oodnadatta Project Drill Hole Location Plan

Exploration Activities

No exploration activities were conducted by Integra Mining Limited during the reporting period. An information memorandum was completed on EL3835 during the current work year in order to search for a joint venture partner to advance exploration on the project. No interest in the Oodnadatta Project was shown and the tenement was allowed to lapse on the 11th July 2010.

Expenditure Statement

Expenditure Summary 12July 2009 to 11July 2010

Geology (incl salaries and wages)	$378.00
Geochemical Activities (Sample Storage)	$386.00
Total	$764.00
Administration & Overheads	$153.00
Total	**$917.00**

Conclusion

The Oodnatatta Project area was identified as having highly prospective gravity/ magnetic inversion model features consistent with well developed magnetite/ haematite alteration systems associated with IOCG- style mineralisation. Exploration conducted on the Oodnadatta licence by ReLode NL (the precursor company to Integra) between 2002 and 2006 comprised the drilling of three holes targeting IOCG type mineralisation associated with large scale gravity features. In 2007 Barrick conducted an airborne magnetic survey and a ground gravity survey over the Oodnadatta licence area. In 2007 and 2008 Barrick drilled a total of four mud-rotary diamond holes targeting gravity (+-magnetic) anomalies that possibly represent buried IOCG-type mineralised systems. A significant intersection of 2m @ 7.95g/t Au from 768m was returned in hole BOMRD0003.