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No. 9738

EL 2679 AND EL 3318

MANGURI

ANNUAL REPORTS AND FINAL REPORT TO LICENCE SURRENDER FOR THE PERIOD 13/12/1999 TO 4/10/2006

Submitted by
Goldstream Mining NL and Anglo American Exploration (Australia) Pty Ltd
2006

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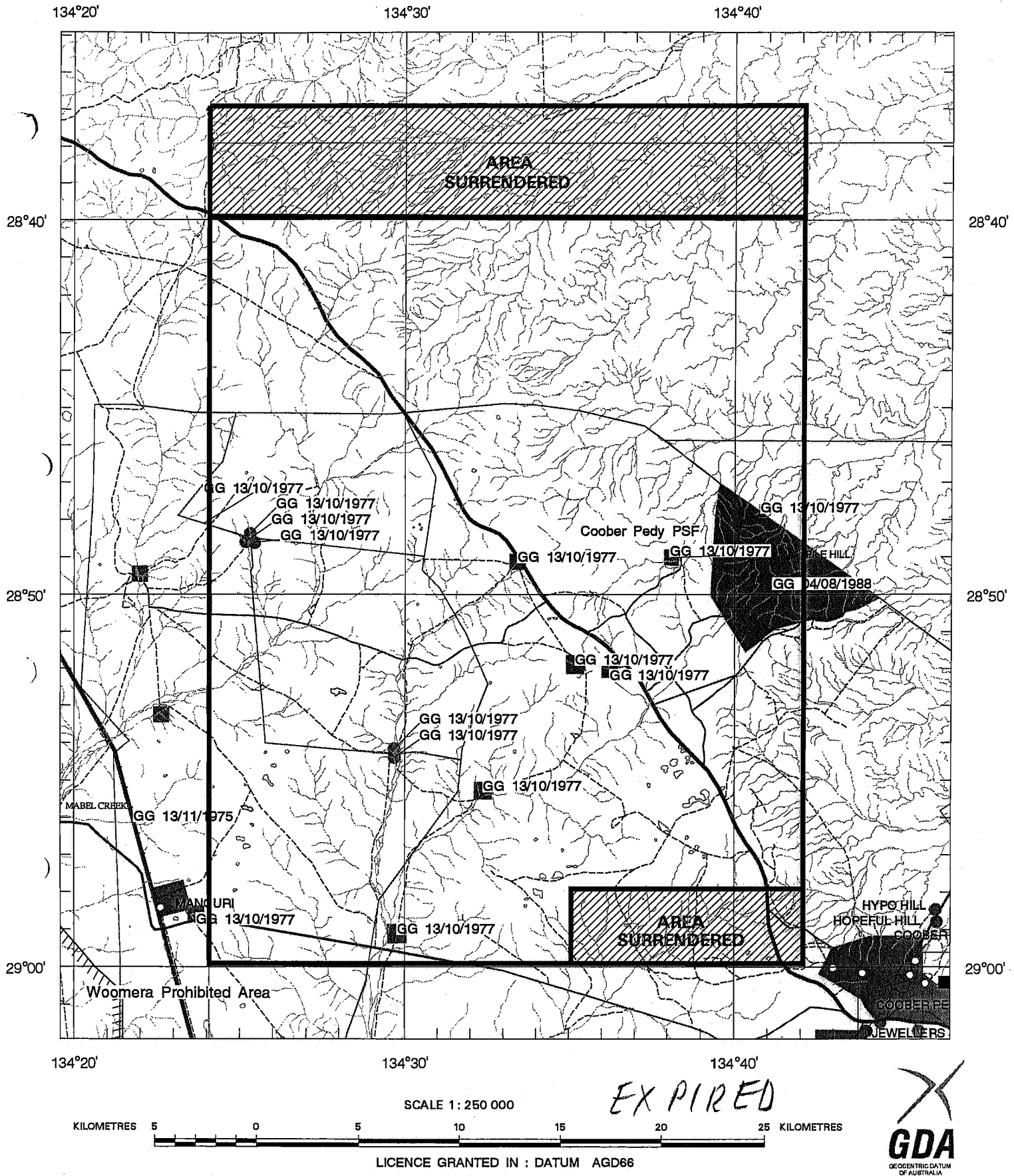
Enquiries: Customer Services Branch
Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880



Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



APPLICANT : **GOLDSTREAM MINING NL**

FILE REF : **103/99**

TYPE : **MINERAL ONLY**

AREA : **1039 km² (approx.)**

1:250000 MAPSHEETS : **MURLOOCOPPIE**

LOCALITY : **MANGURI AREA - Approximately 30 km northwest of Coober Pedy**

DATE GRANTED : **13-Dec-1999**

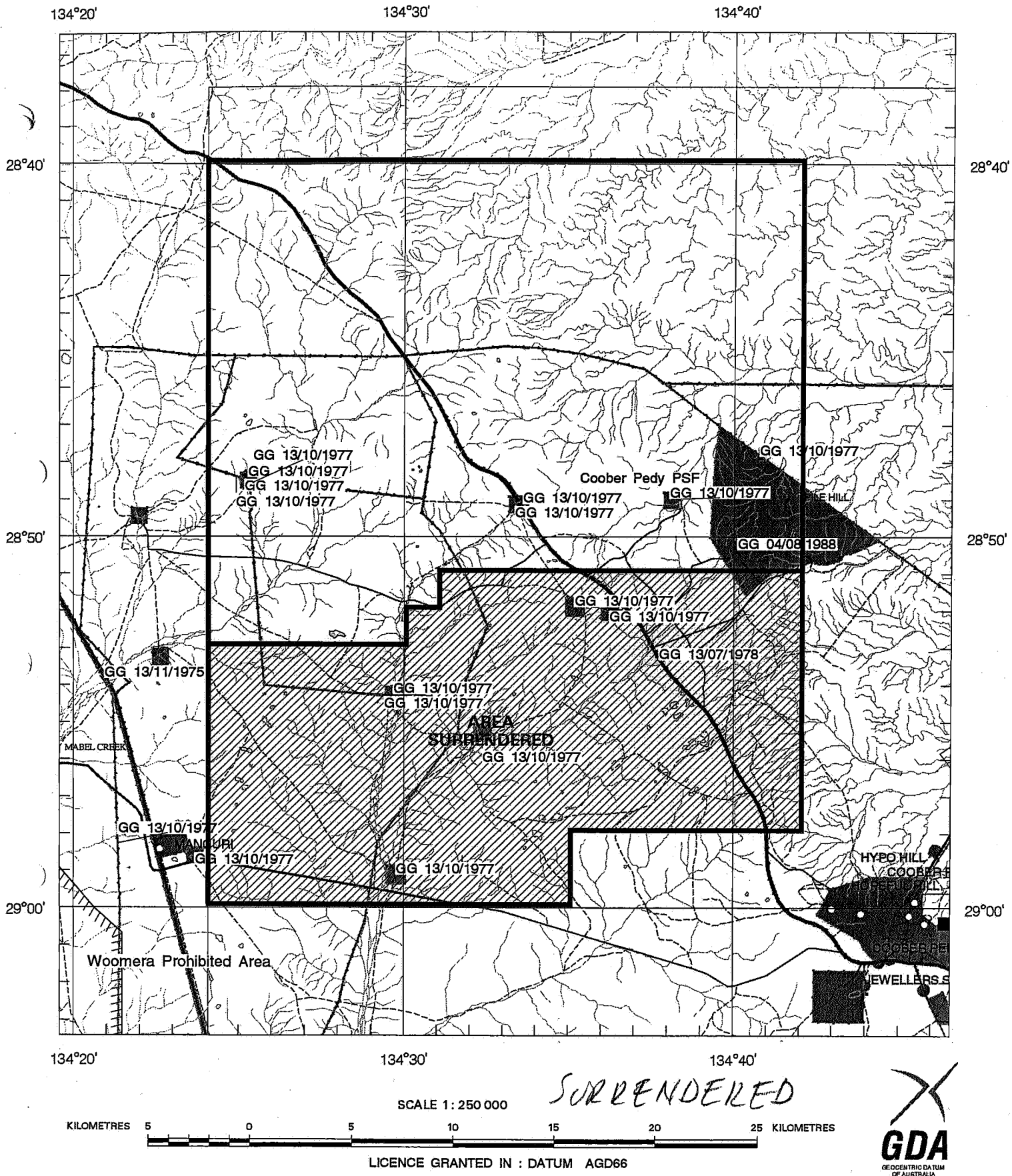
DATE EXPIRED : **12-Dec-2003**

EL NO : **2679**

2004

145

SCHEDULE A



APPLICANT : **GOLDSTREAM MINING NL**

FILE REF : **831/04**

TYPE : **MINERAL ONLY**

AREA : **602 km² (approx.)**

1:250000 MAPSHEETS : **MURLOOCOPPIE**

LOCALITY : **MANGURI AREA - Approximately 30 km northwest of Cooper Pedy**

DATE GRANTED : **14-Mar-2005**

DATE EXPIRED : **13-Mar-2006**

EL NO : **3318**

GOLDSTREAM MINING N.L.
A.C.N. 009 129 560

First Annual Report

E.L. 2679 “MANGURI”

For period 13th December 1999 to 12th December 2000

Holder/Operator	Goldstream Mining NL
Author:	Phil Greenhill
Date:	December 2000

Goldstream Mining Report No: 084

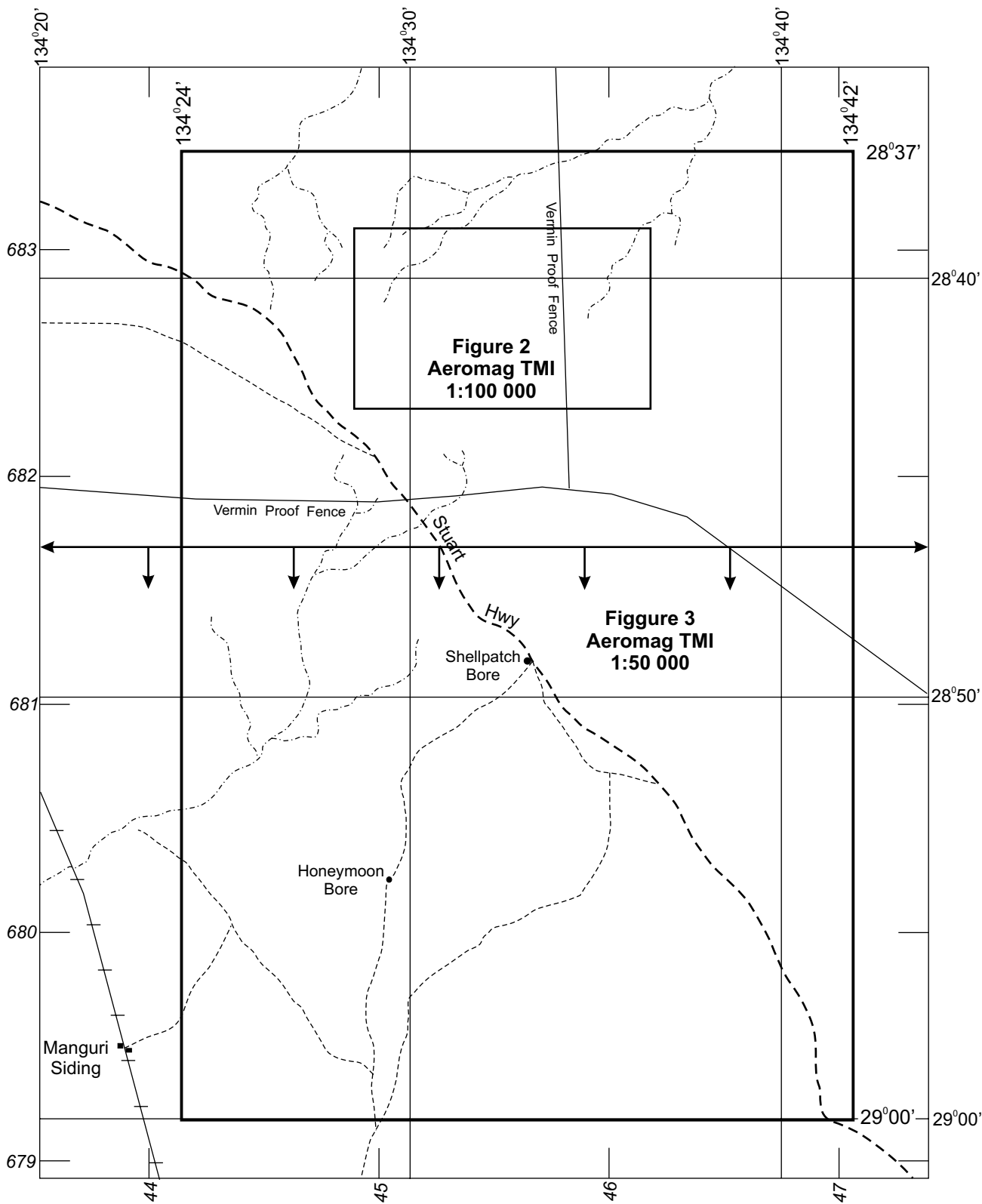
Table of Contents

SUMMARY:	3
EXPLORATION INDEX MAP	4
KEYWORDS:	5
1 INTRODUCTION, HISTORY AND EXPLORATION RATIONALE	6
1.1 Tenure:	6
1.2 Introduction:	6
1.3 Previous Exploration:	6
1.4 Summary:	6
2. GEOLOGY	6
3. GEOPHYSICAL DATA ACQUISITION AND INTERPRETATION	7
4. EXPENDITURE	7
5. CONCLUSIONS	7
FIGURE 1: LOCATION PLAN	8
FIGURE 2: POOTNOURA MAGNETIC COMPLEX	9
FIGURE 3: HIGHWAY MAGNETIC COMPLEX	10
EL2679_200012_01_MAIN REPORT.PDF	
EL2679_200012_02_TMI POOTNOURA.JPG	
EL2679_200012_03_TMI HIGHWAY.JPG	
EL2679_200012_04_FILE VERIFICATION LIST.PDF	
EL2679_200012_05_FILE VERIFICATION LIST.TXT	

Summary:

Goldstream Mining NL acquired this ground in order to explore for Fe-oxide hosted Cu/Au deposits. Initial work has included a review and interpretation of open file geophysical data and negotiations with Native Title claimants regarding access to the land.

Work Carried Out	Date	Comments
Native Title negotiations	ongoing	
Aeromagnetic interpretation	August 2000	Two areas of interest defined – Pootnoura and Highway



GOLDSTREAM MINING N.L.

EL 2679 - MANGURI Exploration Index Map

0 20 km

DATUM: AGD 66 / AMG ZONE 53

250 000 SHEET REF: Murloocoppie SH53-2

SCALE: 1:250 000

DATE DRAWN: August 1999

REVISED:

DRAWN: FR

REPORT NO: 084

PLAN NO: SA 276

Keywords:

Murloocoppie, Copper, Gold, Fe-oxide, aeromagnetism, Native Title, Pootnoura Prospect, Highway Prospect, Coober Pedy Ridge, Proterozoic

1 Introduction, History and Exploration Rationale

1.1 Tenure:

Exploration Licence 2679 “Manguri” was granted to Goldstream Mining N.L. on the 13th December 1999 for a period of twelve months. The tenement covers an area of 1243km², and following renewal on the 31st of December 2000, is now due to expire on the 12th December 2001.

1.2 Introduction:

Exploration Licence 2679 “Manguri” is centered approximately 40km northwest of Coober Pedy in the northern Gawler Craton (Fig. 1). Terrain predominantly consists of gibber plain with areas of bluebush and saltbush. Small hills and breakaways are common in the central part of the licence. The tenement is drained by a series of intermittent creeks including Algebullcullia, Mosquito and Yellow Bullock Creeks. Access to the tenement is via the Stuart Highway and then via station tracks.

1.3 Previous Exploration:

Historic exploration in the area covered by E.L. 2679 has been conducted by Dampier/Amoco in 1982 (coal base metals), CRAE in 1987-89 (iron ore, base metals), BHP in 1992-95 (gold, base metals) and MIM between 1996 and 1999 (base metals, nickel).

Regional geophysical coverage of the tenement area includes aeromagnetics flown by BHP in 1992 as part of the Mabel Creek Survey, and gravity conducted jointly by MIM and PIRSA in 1996.

BHP identified two regional aeromagnetic targets that were followed up with ground magnetics. Depth to basement calculations of >200m precluded any drill testing. Two pronounced gravity anomalies were identified from the MIM/PIRSA survey however due to difficulties in obtaining Heritage clearance the targets were not drill tested.

1.4 Summary:

Exploration for gold and base metals on E.L. 2679 “Manguri” has comprised a review of historical exploration data and drillholes, and geophysical data acquisition and interpretation. This initial work has led to the identification of a number of aeromagnetic and gravity anomalies that require ground magnetics and possible infill gravity prior to drill testing. Aboriginal Heritage Clearance negotiations have been instigated with ALRM and work will be undertaken pending the outcome.

2. Geology

Little is known about the crystalline basement geology of the licence. A limited number of exploration drillholes within the tenement have intersected Bulldog Shale, Cadna-owie Formation and Mount Toondina Formation to depths of 158m without reaching basement. A single hole drilled by BHP in the south of the tenement intersected magnetite gneiss under 196m of cover. Interpretation of regional aeromagnetic data indicates the tenement covers the eastern side of the Mabel Creek Ridge that is dominated

by paragneisses. Other features may be due to Proterozoic intrusives, while some Archaean basement may be present in the north of the licence area.

3. Geophysical Data Acquisition and Interpretation

CG Anderson and Associates were commissioned by Goldstream Mining to acquire open file aeromagnetic and gravity data for the Manguri area and to identify potential base metal targets. Initial work has identified two areas that require ground magnetics prior to possible drill testing. (Plates 1-2).

This work has been delayed while a Part 9B Exploration Agreement is negotiated between Piper Alderman lawyers representing Goldstream, and ALRM representing Antakarinja Native Title claimants.

Until an agreement is signed that is acceptable to both parties the claimants will not conduct a heritage clearance trip allowing any form of exploration on E.L 2679. Legal advice has indicated that this includes ground magnetics.

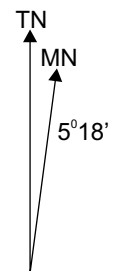
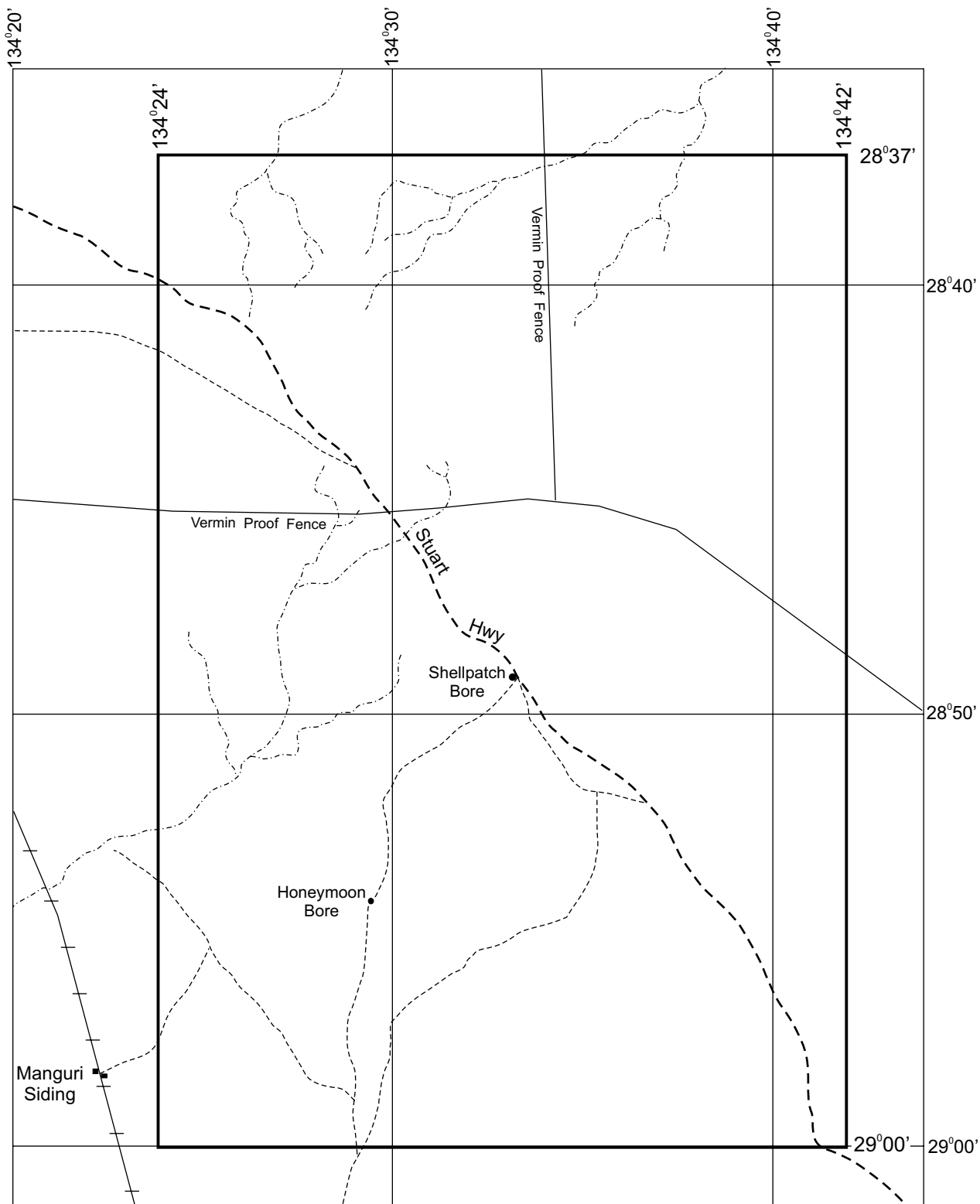
4. Expenditure

Accommodation	\$ 350
Drafting and maps	\$ 1,401
Field supplies and consumables	\$ 1,681
Geophysical data	\$ 2,325
Legal	\$ 1,742
Salaries and wages	\$ 7,499
Tenement costs	\$ 4,674
Vehicles and travel	\$ 1,687
Administration Overheads	\$ 3,204
PROJECT EXPENDITURE TOTAL	\$ 24,563

PIRSA EXPENDITURE TOTAL \$ 150,000

5. Conclusions

An assessment of regional aeromagnetic data and previous gravity surveys has highlighted a series of targets that require further geophysics prior to drilling. The timing of Aboriginal Heritage clearances will ultimately determine the time frame for the commencement of any work on the tenement.



0 20 km

Figure 1

GOLDSTREAM MINING N.L.

EL 2679 - MANGURI Location plan

DATUM: AGD 66

250 000 SHEET REF: Murloocoppie SH53-2

SCALE: 1:250 000

DATE DRAWN: August 1999

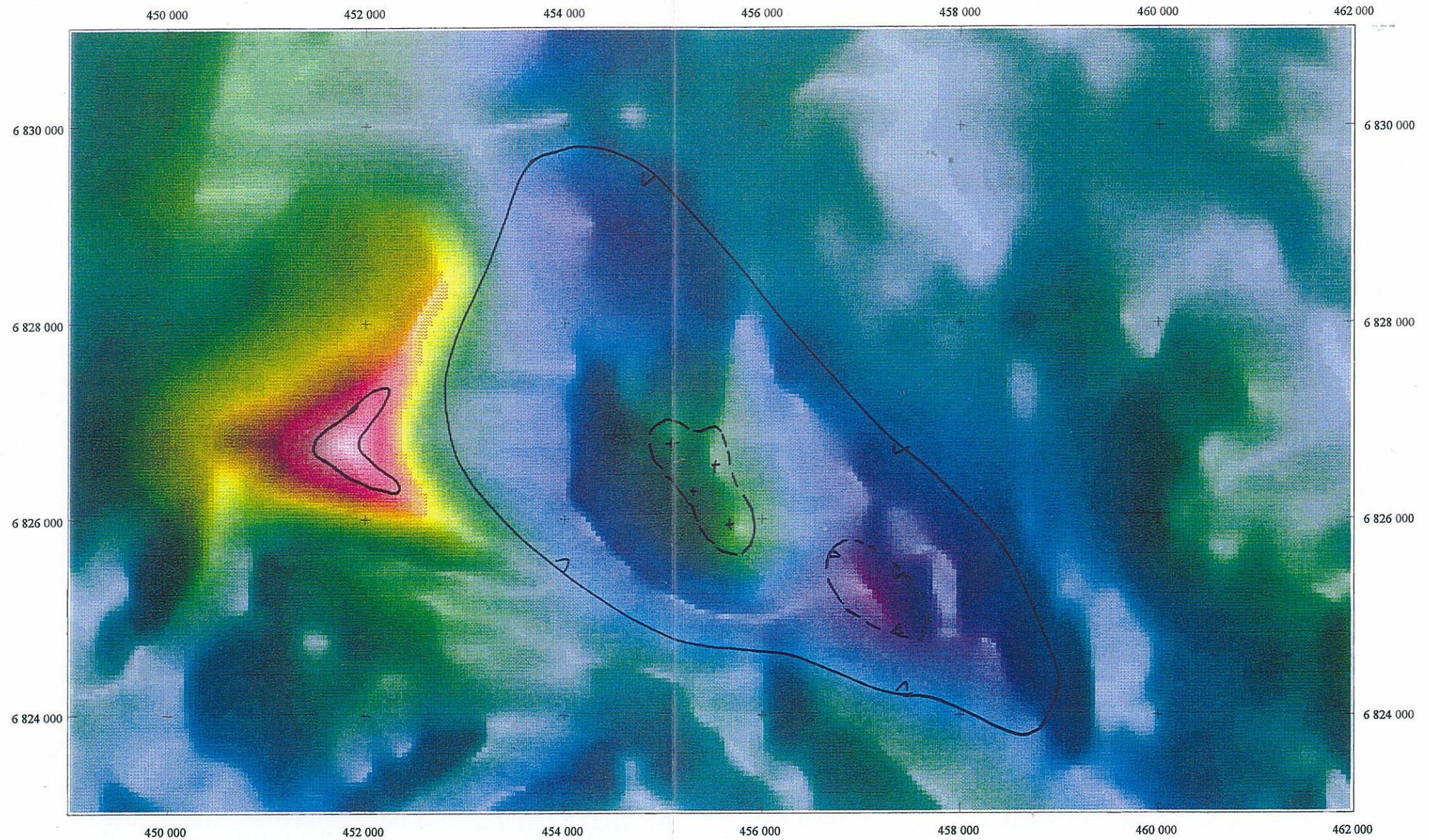
REVISED:

DRAWN: FR

REPORT NO: 084

PLAN NO: SA 276

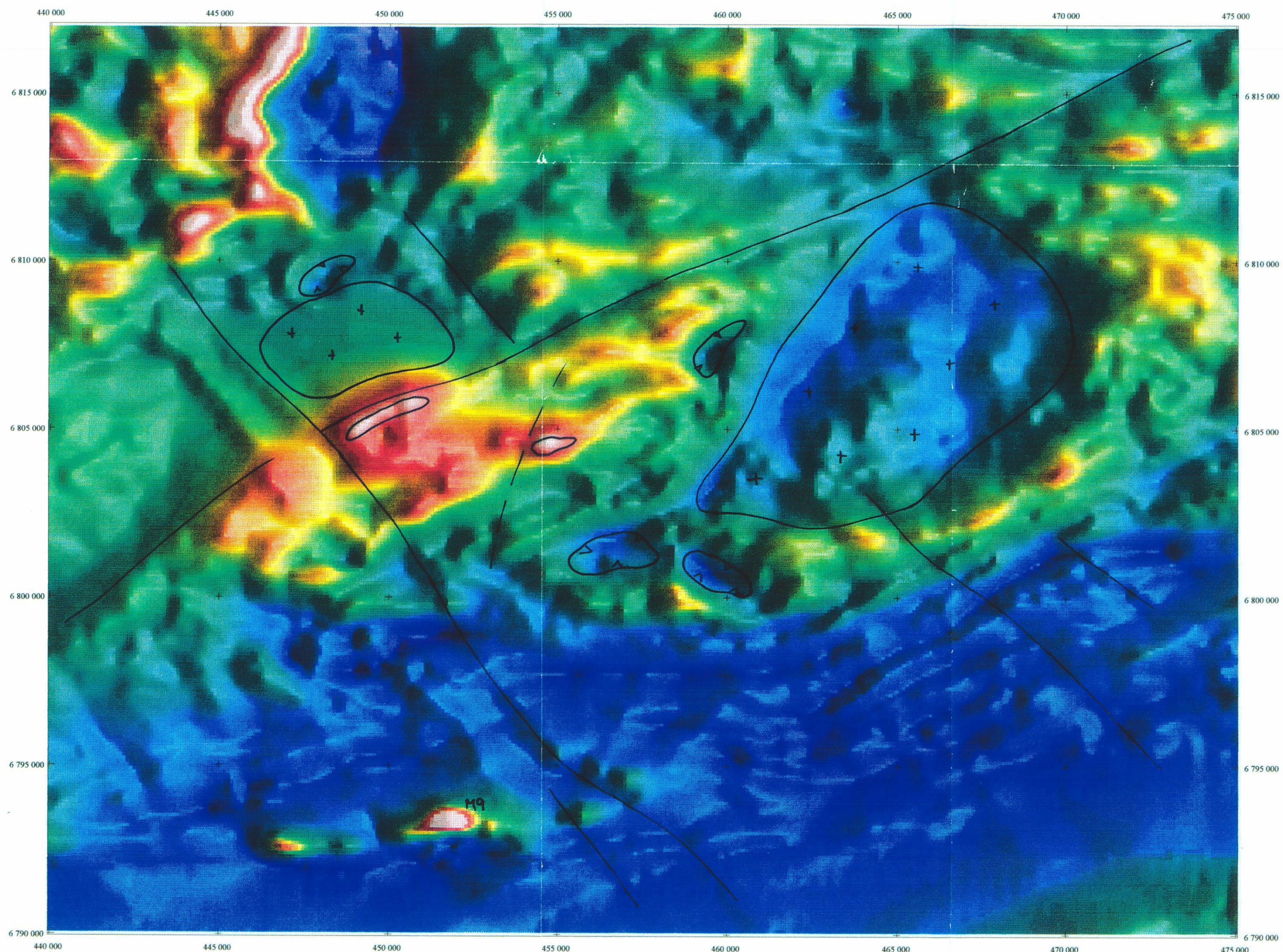
POOTNOURA COMPLEX TMI



Scale: 1: 50 000

EL 2679 MANGURI

HIGHWAY COMPLEX TMI

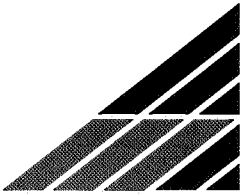


Scale: 1:100000

EL 2679 MANGURI
HIGHWAY MAGNETIC COMPLEX
GDM REPT. 084 FIGURE 3

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database Compilation		
Computer Modelling		
Reprocessing of data	EL2679_200012_02_TMI Pootnoura.jpg	jpg
Reprocessing of data	EL2679_200012_03_TMI Highway.jpg	jpg
General research		
Report preparation	EL2679_200012_01_Main report.pdf	pdf
Other (specify)		
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		
<i>Geological Mapping</i>		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resisitivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
<i>Geochemical Surveying</i>		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Laterite		
Water		
Biogeochemistry		
Isotope		

Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Diamond		
Reverse circulation		
Rotary air blast		
Air-core		
Auger		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	EL2679_200012_04_File Verification List.pdf	txt



GOLDSTREAM MINING N.L.

A.C.N. 009 129 560

ABN 67 009 129 560

5th March 2002

Jason Tugwell
Mineral Records Officer
Mineral Resources Group
Office of Minerals and Energy Resources SA
GPO Box 1671
ADELAIDE SA 5001

Dear Jason,

**Re: Second Annual Technical Report EL 2679 – “Manguri”
For period 13th December 2000 to 12th December 2001**

Goldstream wishes to advise that no new technical data has been collected for the above tenement, therefore please accept this letter in lieu of the second annual technical report.

Yours sincerely

per Rob Edwards
Exploration Manager



PIRSA

C2002/00438



02219047



**ANGLO
AMERICAN**

Suite 1, 16 Brodie-Hall Drive
Technology Park
Bentley, WA, Australia, 6102.
PO Box 1067, Bentley DC
Bentley, WA, Australia, 6983.
Tel: +61 8 6250 8100
Fax: +61 8 6250 8199

Anglo American Exploration (Australia) Pty. Ltd.
A.C.N. 006 195 982

EL 2679 “MANGURI”
Annual Report for the Period 13th December 2001 to
12th December 2002

Volume 1 of 1

Tenure Holder: Goldstream Mining NL
Operator: Anglo American Exploration (Australia) Pty Ltd
Author: Adrian Brewer
Date: December 3rd, 2003

Distribution

***Primary Industries and Resources South Australia - Mineral Resources
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Anglo American Exploration (Australia) Pty Ltd – Perth Office (2)

Goldstream Mining NL – (1)

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SUMMARY

Exploration Licence 2679, “Manguri” covering an area of 1,243km² lies northwest of Coober Pedy in South Australia. The area is held by Anglo American Exploration (Australia) Pty Ltd in Joint Venture with Goldstream Mining NL, and forms part of a significant tenement holding in the region, which includes the “Mount Woods Joint Venture” between Goldstream Mining NL (tenure holder) and Anglo American Exploration (Australia) Pty Ltd (project operator).

This report describes activities conducted on the tenement area during the period 13th December 2001 to 12th December 2002, during which time Anglo American became operators on the area.

Detailed examination of aeromagnetic data on the area led to siting of one diamond drill hole (AD001) to test a strongly reversely magnetised anomaly on Mt Clarence Station.

Field activities on this area consisted of heritage clearances of 2 potential drill sites, siting and drilling of AD001 (343.7m) and rehabilitation of the drill site. This work was completed in conjunction with significant operations on adjacent tenement areas.

KEY WORDS

Coober Pedy, Murloocoppie 1:250,000 map sheet, Proterozoic, Mabel Creek Ridge, Mount Woods Inlier, Coober Pedy Ridge, Iron oxide-Copper-Gold, Gravity, Geophysical Anomalies, Diamond Drilling, Magnetic Remanence, Assaying, Petrology.

TABLE OF CONTENTS

SUMMARY	i
KEY WORDS	i
LIST OF FIGURES	ii
LIST OF APPENDICES.....	ii
1.0 INTRODUCTION.....	1
2.0 TENURE	1
3.0 PREVIOUS EXPLORATION	1
4.0 REGIONAL GEOLOGY	2
5.0 EXPLORATION ACTIVITIES	3
6.0 EXPENDITURE.....	3
7.0 CONCLUSIONS AND RECOMMENDATIONS.....	4

Digital File List (on CD at back of report)

EL2679_Annual_Report_2002.pdf
EL2679_Figure1.pdf
EL2679_Figure2.pdf
EL2679_Figure3.pdf
EL2679_Appendix3_drill collar data.txt
EL2679_Appendix4_lithology logs.txt
EL2679_Appendix5_drill hole assays.txt

LIST OF FIGURES

Figure 1 Tenement Location Plan
Figure 2 Drill Hole Location Plan
Figure 3 Tectonic Interpretation Plan

LIST OF APPENDICES

Appendix 1 Magnetic Remanence Report (at back of text)
Appendix 2 Petrological Report (at back of text)
Appendix 3 Drill Collar Data

Appendix 4	Drill Lithology Logs
Appendix 5	Drill Hole Assay Data

1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 2679 “Manguri” during the period 13th December, 2001 to 12th December, 2002. Anglo American Exploration (Aust) Pty Ltd became operators on the area during March 2002 in a joint venture with Goldstream Mining NL.

Exploration Licence 2679, “Manguri” covering an area of 1,243km², lies northwest of Coober Pedy in South Australia in the northern Gawler Craton of South Australia (Figure 1). Access is via the sealed Stuart Highway or the unsealed Coober Pedy – Mabel Creek road and then via a series of dirt station tracks, many of which become impassable in wet weather.

EL 2679 is situated on the Mount Clarence and Mount Willoughby Pastoral Leases and lies within the Murloocoppie (SH53-2) 1:250,000 map sheet.

The area is covered in part by the Woomera Prohibited Area and the Coober Pedy Precious Stones Field. The terrain is dominated by generally open gibber plains with areas of bluebush and saltbush, with some low lying salt lake swamps, and is drained by a series of generally poorly defined and intermittent creeks.

Exploration work during the reporting period has comprised data compilation & review of previous company and Government exploration, and completion of one diamond drill hole for 343.7m. Petrological examination of drill core samples and a magnetic remanence study of the drill core were also completed to assist with interpretation of the data. The drill hole location is illustrated in Figure 2.

The principal exploration target for the area was Proterozoic iron oxide copper-gold deposits of the Olympic Dam and Prominent Hill type, and magmatic related nickel deposits.

2.0 TENURE

Exploration Licence 2679 (Manguri) was granted to Goldstream Mining NL on 13th December, 1999. Anglo American Exploration (Australia) Pty Ltd became operator of the area by means of a Joint Venture with Goldstream Mining during March 2002 (Figure 1). The tenement covers an area of approximately 1,243 km².

3.0 PREVIOUS EXPLORATION

Exploration for iron ore in the Coober Pedy region was undertaken by Delhi Petroleum during 1962-1965, with more extensive base and precious metal exploration, and minor uranium and diamond exploration being carried out by Newmont Ltd (1970-1977), CRA Exploration (1981-1995), BHP Minerals (1991-1995) and WMC Resources (1995-2000), in joint venture with BHP Minerals.

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. Some drilling (principally utilising Rotary Mud/Percussion) of geophysical basement targets under cover was completed but no mineralisation of note was intersected. Extensive regional RC drilling was also completed by PIRSA as part of the South Australian Steel and Energy Project on the Phillipson and Coober Pedy 1:100,000 map sheets (1995).

During 2001 Anglo American Exploration (Australia) Pty Ltd completed a comprehensive review and compilation of previous work and identified the potential of the area for craton margin magmatic nickel deposits together with a number of aeromagnetic and gravity targets with potential for iron oxide copper-gold style mineralisation.

4.0 REGIONAL GEOLOGY

The Manguri exploration licence covers a portion of the poorly understood Palaeoproterozoic Mabel Creek Inlier, a large block of variable magnetic intensity lying to the north of the Coober Pedy Ridge and the Mount Woods Inlier. These three terranes abut an interpreted Archaean age cratonic area to their south and west. The area contains major regional structures (including the Karari Fault Zone) and is traversed by a several prominent northwest trending structures along which significant thicknesses of Permian sediments have been deposited.

Basement outcrop in the region is generally restricted to the Mount Woods Inlier to the southeast of the tenement, and limited outcrop of Gawler Range Volcanics and Archaean Gneisses further to the south and southwest of the area.

The Mount Woods Inlier comprises high grade Palaeoproterozoic metasedimentary rocks (amphibolite to granulite facies quartzo-feldspathic gneisses, meta-iron formations, quartz-feldspar-biotite schists, metaquartzites, calc-silicates and forsterite marbles) intruded by syn- to post tectonic granitoids, (eg, the Balta Granite, a polyphase Hiltaba Granite equivalent, comprising non-foliated brick-red granite, porphyritic granites and hybrid granites) and is covered by Mesozoic and Tertiary sedimentary cover. The metasediments are characterised by an intense magnetic response in regional aeromagnetic data, which reflects a combination of magnetite rich precursor sediments including BIFs, magnetite alteration, and interpreted probable mafic intrusive bodies. The Inlier is bounded by major shear zones, the most prominent of which is the Karari Fault Zone which bounds the east-west trending Coober Pedy Ridge.

To the north, the Coober Pedy Ridge is separated from the Mabel Creek Ridge by the Permian Tallaringa Trough, and the cover thickness increases markedly. To the west cover thickness also increases due to the presence of Permian and some Cambrian sediments, and increased thickness of Mesozoic cover. Limited previous exploration drilling (primarily for coal) has shown that the cover sequences, generally comprising Cretaceous sediments of the Cadna-Owie Formation, Algebuckina Sandstone and the Bulldog Shale, which are in turn overlain by Tertiary, Quaternary and recent cover, typically exceeds 150m in depth over the area. Basement is interpreted to be greater than 200m over much of the tenement and to increase significantly to the north and south, with several prominent Permian channel features present both within and external to the area.

5.0 EXPLORATION ACTIVITIES

Following a review of previous exploration, including available public domain geophysical data sets, supplemented by geological reconnaissance on adjoining tenements, a drill hole was sited to test a strongly negative magnetic feature with similar characteristics to the Mount Brady mafic igneous complex to the south of Coober Pedy.

The drill hole (ARC001, Azimuth 355° Mag, dip -70°), intersected a thick sequence of Mesozoic and Permian sediments (262.2m) before entering a Mesoproterozoic partly retrogressed pelitic gneiss sequence to the termination of the hole at 343.7m. The drill hole location is illustrated on Figure 2, with geology, collar and assay details contained in Appendices 3-5. No mafic lithotypes were observed and a magnetic remanence study on oriented core samples indicated that the magnetic feature is most likely due to a very high reversely magnetised remanence in the gneisses (Appendix 1). Selected core intervals were assayed for a multielement suite, with no anomalous mineralisation observed.

Four samples were petrologically examined, with samples all being described as meta-pelitic gneisses (Appendix 2)

A regional tectonic interpretation was completed over the area by Leigh Rankin to assist with determining the tectonic relationships of the three main geophysical domains in the area. This data is illustrated on Figure 3.

6.0 EXPENDITURE

Expenditure over the licence area during the reporting period is summarised below –

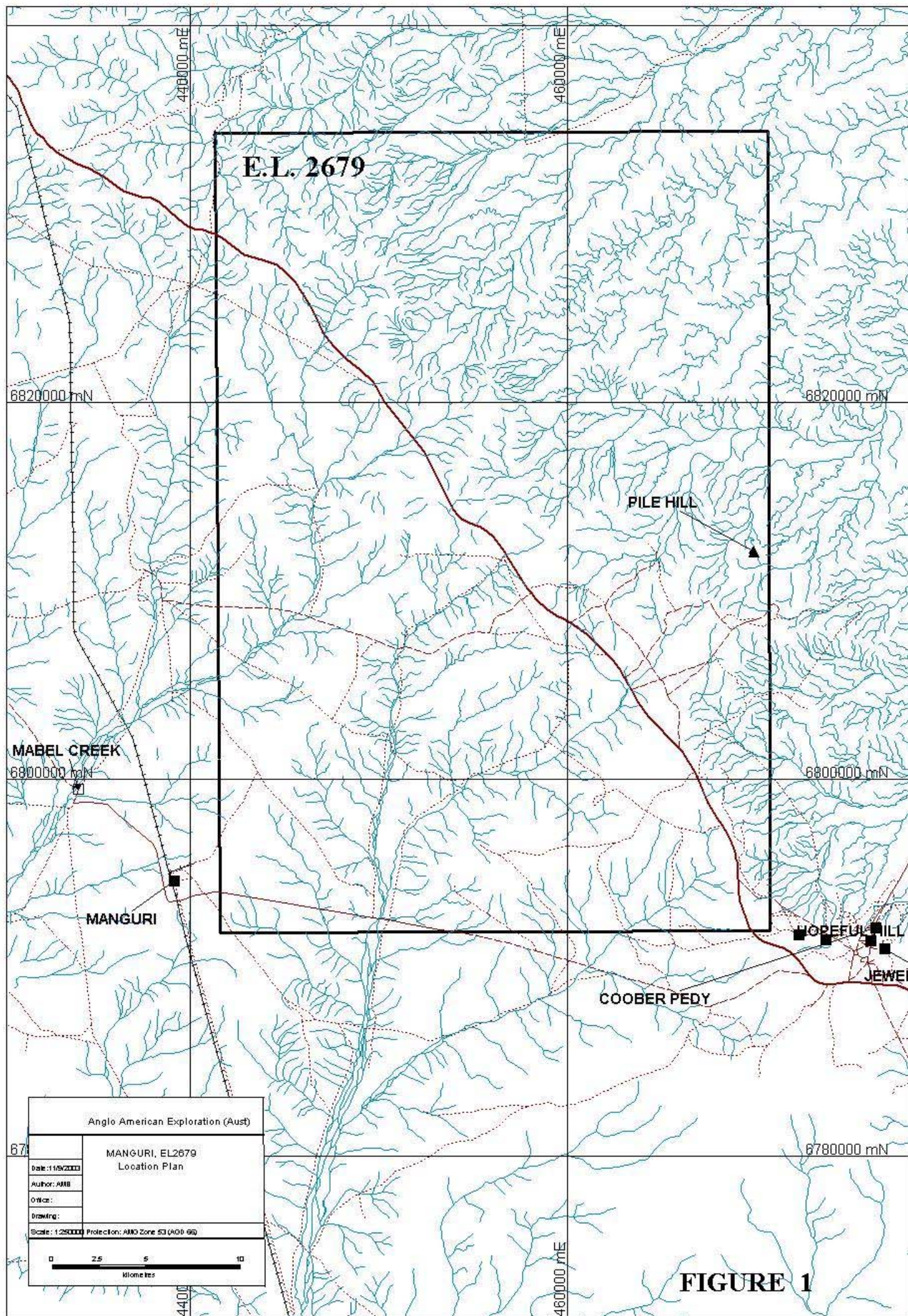
Staff Salaries & wages	\$12,523
Contract and Consulting Geologists, Field Assistants	\$13,593
Safety, Health and Environment	\$950
Aboriginal cultural clearances	\$6,000
Ground geophysical surveys	\$0
Geophysical Consultants and Interpretation	\$3,825
Drilling	\$27,487
Assaying	\$4,548
Communications	\$210
Printing and Digital Data	\$263
Tenure Maintenance	\$215
Field Expenses	\$1,507
Travel & accommodation	\$5,437
Vehicle hire/fuel/maintenance	\$438
Administration overheads	\$7,700
TOTAL	\$84,696

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 2679 covers a portion of the northeastern Mabel Creek Ridge, an area considered prospective for Proterozoic iron oxide copper-gold and magmatic nickel styles of mineralisation.

Drill hole AD001 sited to test for potential mafic intrusives, intersected only meta-pelitic gneisses, downgrading the potential of the area for magmatic nickel mineralisation. Significant cover thickness revealed in this hole coupled with significant cover intersected in previous exploration drilling has also downgraded the exploration potential of this area for IOCG style mineralisation at economic depths.

Additional interpretation of available geophysical datasets will be undertaken, and further data acquisition will be completed over any potential targets derived from this interpretation.



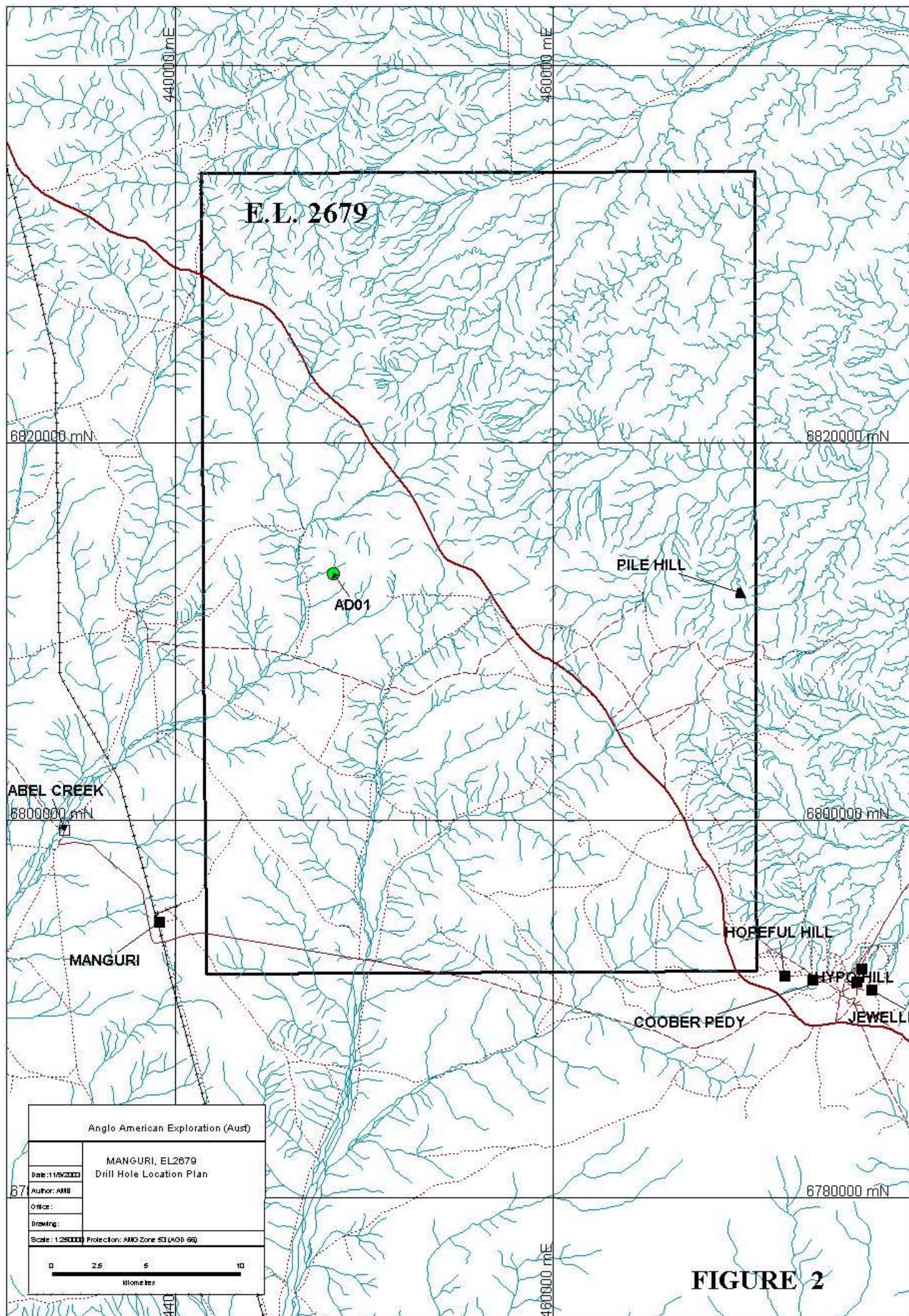


FIGURE 2

430000 mE 440000 mE 450000 mE 460000 mE 470000 mE 480000 mE

620000 mN

625000 mN

630000 mN

635000 mN

640000 mN

430000 mE

440000 mE

450000 mE

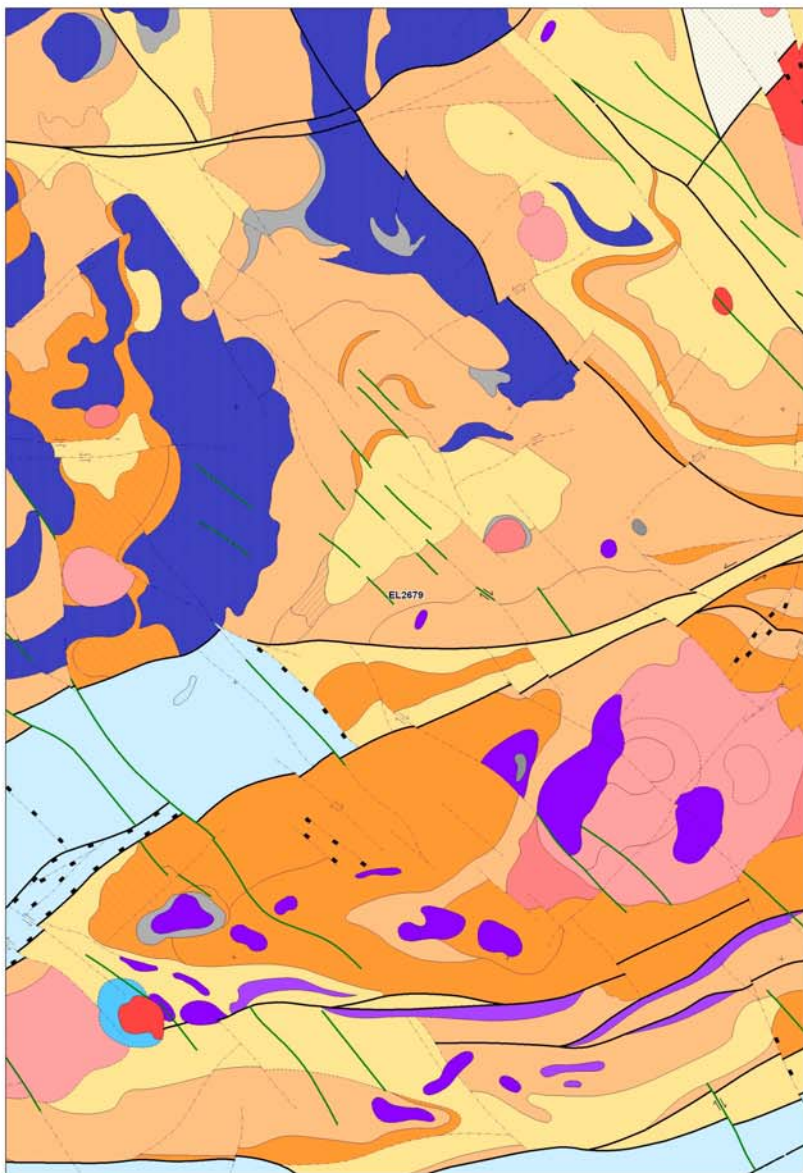
460000 mE

470000 mE

480000 mE

134°37'

134°45'



MAP NOTES:

- Map compiled as hard copy at 1:100,000 scale from combined digital and analogue data. Magnetic data, plus vectorized digital data, were used.
- Boundaries shown are based on magnetic, structural, and other data. They are not necessarily definitive and may be subject to change as more data become available.
- Geological interpretation is based on magnetic, structural, and other data. It is not necessarily definitive and may be subject to change as more data become available.
- Map compiled from digital data using MapInfo 6.0.5. Displayed at 1:100,000 scale.
- No field verification was conducted in this project. Results to be considered as preliminary.

REFERENCE

LEGEND

LINE LEGEND

Map Data Line Legend

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REGION: GUYANA
PROJECT: COOPER PED
DRAWING: ANG-S4-C00-GE-12760-1/01

FIGURE 3
MANGURI EL2679
TECTONIC INTERPRETATION

AUTHOR: J. BROWN
COMPILED BY: C. LEE
DATE: 12/11/2003
PROJECTION: UTM
SCALE: 1:100,000

APPENDIX 1

MAGNETIC REMANENCE STUDY

MAGNETIC PROPERTIES OF HEMATITE-BEARING DRILL CORE SAMPLES FROM THE ANGLO AMERICAN COOPER PEDY PROJECT -

D. Clark & S. Geuna, CSIRO Exploration And Mining

Four oriented samples of high metamorphic grade gneisses were submitted by Mike Webb for determination of magnetic properties. The drill hole was targeted on the interpreted source of a substantial magnetic anomaly, but the drill hole intersection had low susceptibility, suggesting either that the source had not been intersected or that these hematite-bearing gneisses were carrying an unusually strong remanent magnetisation (which would not be detectable by a susceptibility meter).

BASIC MAGNETIC PROPERTIES

Each sample was redrilled along its axis and the resulting 2.5 cm diameter core sliced into cylindrical specimens (height 2.2 cm) for palaeomagnetic measurements. The magnetic properties of the samples are given in the table below. NRM directions, and directions after 100 mT AF cleaning, of individual specimens from the samples are plotted on the accompanying stereonets. Demagnetisation behaviour for all specimens is illustrated in the composite plots (AF demagnetisation curves, stereonets and vector plots).

<u>SAMPLE</u>	Susceptibility (10⁻⁶ SI)	NRM (D, I; J)	Q
ADO1/1	21	(188°, -63°; 0.19)	0.2
ADO1/2	270	(151°, +62°; 6340)	648
ADO1/3	9	(254°, +30°; 234)	727
ADO1/4	570	(299°, +46°; 13,400)	655
<u>COMBINED</u>	220	(299°, +66°; 4400)	450

In the table D is the declination of NRM, I is the inclination, J is the NRM intensity in mA/m (1 mA/m = 1 μ G [CGS]), and Q is the Koenigsberger ratio (remanent/induced magnetisation). Q is calculated as J/kF , where k is the susceptibility and F is the geomagnetic field strength in equivalent units to J ($B = 57,000$ nT $\Rightarrow F = 45400$ mA/m).

All the samples have low susceptibility, implying that magnetite is absent, or present in only trace amounts. Sample ADO1/1 has a weak remanence, directed south and steeply upwards. However, the other three samples have substantial remanence and very high Koenigsberger ratios (650-730). Their NRMs are somewhat scattered, but broadly are directed west, with moderate to steep positive (downward) inclination. The effective remanent intensity and Q for the intersected unit, estimated from these four samples are reduced by the scatter of NRM directions, but the resultant NRM is nevertheless quite intense (4.4 A/m) and the corresponding Q is still very high. The magnetic properties are consistent with thermoremanent magnetisation acquired during post-metamorphic cooling from above $\sim 650^\circ\text{C}$ by multidomain hematite or slightly titaniferous hematite. For these compositions multidomain structure corresponds to grain sizes greater than 100 μm .

These results suggest that a substantial magnetic anomaly (up to 2500 nT for a half-space, or several hundred nT for a dyke-like body with thickness comparable to its depth beneath the sensor) could be produced by this rock type. Zones with similar magnetic mineralogy, but higher

concentrations of hematite, could produce very large anomalies. The anomalies arise solely from the remanent magnetisation, which is highly oblique to the Earth's field. Therefore dips interpreted by assuming magnetisation parallel to the Earth's field will be erroneous. The best estimate of the magnetisation direction that should be used in modelling the effect of the intersected unit is WNW and steep down.

STABILITY OF REMANANCE

Alternating field (AF) demagnetisation was carried to remove any palaeomagnetic noise that might be contaminating the NRM and to test the stability of the remanence. After removal of small unstable components the NRM are generally very very stable to AF demagnetisation. Intensities after 100 mT treatment are comparable to the NRM intensities and directions are similar. The scatter of NRM directions is somewhat reduced by AF cleaning, as shown in the stereogram of cleaned directions. The hardness of the remanence up to 100 mT confirms that the remanence is not carried by magnetite, and is consistent with (titano)hematite as the remanence carrier.

The mean AF cleaned remanence direction (after 100 mT treatment) for the samples that have significant remanence is: $\text{dec} = 264^\circ$, $\text{inc} = +63^\circ$. The corresponding palaeomagnetic pole (assuming an approximate site location of 29°S , 135°E) is: $\text{lat} = 24^\circ\text{S}$, $\text{long} = 84^\circ\text{E}$. There is a large uncertainty on this pole, because it is based on only three samples with independent orientations. However the pole position is consistent with acquisition of remanence c.1600 Ma, corresponding to the Olarian orogeny in the Curnamona Province and the age of the Hiltaba suite granitoids and Gawler Range Volcanics in the Gawler Province.

ROCK MAGNETIC TESTS

Because of the unusual magnetic properties, a series of rock magnetic experiments were carried out to characterise the magnetic carriers in these samples. Representative hysteresis loops, IRM acquisition curves, backfield coercivity plots and thermomagnetic curves are shown. These experiments confirmed that the magnetic carriers have high coercivity and Curie temperatures of $\sim 630^\circ\text{C}$ (*cf* 580°C for pure magnetite and 680°C for pure hematite). This Curie temperature indicates a slightly titaniferous composition for the hematite ($\sim 5\%$ ilmenite in solid solution).

CONCLUSIONS

- The intersected rock type is capable of causing substantial magnetic anomalies, in spite of its low susceptibility, due to its relatively intense remanent magnetisation.
- The remanence direction is oblique to the present field direction (WNW and steep down). For this type of magnetic source modelling that assumes magnetisation by induction will be seriously in error.
- The age of magnetisation is not well constrained, but the remanence direction is consistent with acquisition around 1600 Ma.
- The magnetic carrier in these rocks is slightly titaniferous hematite.

APPENDIX 2

PETROLOGICAL DESCRIPTIONS

Memo to: R. Goodgame

Copies to: A. Brewer
C. Tomich
I. Willis

Date: 20 September 2002

From: G. Teale

Subject: Preliminary petrological descriptions, drillhole AD01.

The drillhole collared by AngloAmerican is essentially represented by meta-sediments with some granitic sills and minor “sweats”. Samples investigated in AD01 are essentially meta-pelitic gneisses (feldspathic) containing abundant sillimanite, cordierite and hematite. The latter does not exsolve too much ferrian ilmenite but may be titaniferous. No magnetite was observed. The hematite is part of the high-grade gneiss assemblage with these gneisses being ferric iron-rich. Iron-rich silicates (e.g. garnet, etc.) do not form and the dominant Mg-Fe silicate is an Mg-rich cordierite (co-existing with the hematite), and Mg-biotite.

The mineralogy of the samples is as follows:

AD01 – 289.7m: Quartz-plagioclase-biotite-sillimanite-hematite (-muscovite)

AD01 – 308.5m: Quartz-plagioclase-K-feldspar (-titan hematite-ferrian ilmenite-muscovite).

AD01 – 340.4m: Biotite-sillimanite-K-feldspar-plagioclase- hematite.

AD01 – 341.0m: Quartz-plagioclase-cordierite-sillimanite-hematite-tourmaline

Graham Teale

APPENDIX 3

DRILL COLLAR DATA

HOLEID	PROJECT	TENEMENTID	HOLETYPE	EAST	NORTH	RL	TOTAL DEPTH	PROSPECT
AD-1	COOBERPDY	EL2679	Diamond	448,358.00	6,813,096.00	100	343.7	SHELLPATCH

HOLEID	STARTDATE	ENDDATE	CoordDatum	CoordZone	CollControl	PrecollarDepth	HolePurpose	CoverDepth
AD-1	26-Jun-02	6-Jul-02	AGD66	-53	GPS	262.2	To test reversly pol mag	262.2

APPENDIX 4

DRILL LITHOLOGY LOGS

HOLEID	From	To	Lithology 1	Lithology 2
AD-1	0	2	SND	CAL
AD-1	2	4	SRT	
AD-1	4	6	SRT	CLY
AD-1	6	102	CLT	
AD-1	102	108	SNT	CLT
AD-1	108	117	SNT	
AD-1	117	146	CLT	SNT
AD-1	146	174	SNT	
AD-1	174	262.2	CLT	
AD-1	262.2	263.1	PEG	
AD-1	263.1	263.9	GNS	
AD-1	263.9	264.1	SNT	
AD-1	264.1	264.8	GNS	
AD-1	264.8	271.4	PEG	
AD-1	271.4	274.7	GRT	PEG
AD-1	274.7	277.6	GNS	
AD-1	277.6	283.9	PEG	
AD-1	283.9	284.6	PEG	GNS
AD-1	284.6	285.3	GNS	
AD-1	285.3	286.8	PEG	
AD-1	286.8	298.8	GNS	
AD-1	298.8	299.5	GRT	PEG
AD-1	299.5	300.4	GNS	
AD-1	300.4	309.5	GRT	PEG
AD-1	309.5	311.1	GRT	
AD-1	311.1	331	GNS	
AD-1	331	343.7	GRT	

Australian Litho Codes

Litho1Comp1: Lithology

<i>Code</i>	<i>Description</i>
ALC	alluvial clay
ALG	alluvial gravel
ALM	alluvial sands containing mineral sands
ALS	alluvial sands
AMP	amphibolite
ANS	aeolian sands
BAS	basalt
BIF	banded iron formation
CAL	Calcrete
CAR	carbonate
CGL	conglomerate
CHT	chert
CLT	claystone
CLY	clay
DOL	dolerite
FER	ferricrete
GAB	gabbro
GFQ	garnet-feldspar-quartz rock
GNS	gneiss
GRF	felsic granulite
GRL	layered granulite
GRM	mafic granulite
GRT	granite
GRU	granulite
GRV	gravel
HBL	hornblendite
KCS	potassic calcsilicate
LIG	lignite
LST	limestone
LTG	lateritic gravel

Litho1Comp2: Lithology qualifier

<i>Code</i>	<i>Description</i>
-	not recorded
ca	carbonaceous
cc	calcitic
do	dolomitic
fo	fossiliferous
gl	glauconitic
gr	graphitic
pm	polymictic
qf	quartzo-feldspathic
tr	transported
tu	tuffaceous
vc	volcaniclastic

Litho1Sz: Grainsize

<i>Code</i>	<i>Description</i>
c	coarse grained
f	fine grained
m	medium grained

Litho1Text: Texture

<i>Code</i>	<i>Description</i>
gb	granoblastic
li	lithic
py	porphyritic

Litho1Col1: Colour

<i>Code</i>	<i>Description</i>
bf	buff
bk	black
bl	blue
br	brown
bs	brass



Australian Litho Codes

MIG	migmatite	cl	clear
PEG	pegmatite	cr	cream
PTL	pseudotachylite	gn	green
PYX	pyroxenite	go	gold
QGR	quartz-garnet rock	gy	grey
QMR	quartz-magnetite rock	ol	olive/khaki
QZT	quartzite	or	orange
SBX	sedimentary breccia	pi	pink
SIL	silt	pu	purple
SIT	siltstone	rd	red
SND	sand	si	silver
SNT	sandstone	tn	tan
SRT	silcrete	wh	white
TBX	tectonic breccia	ye	yellow
TUF	tuff		
UM	ultramafic		

APPENDIX 5

DRILL HOLE ASSAY DATA

HOLE_ID	SAMPLE No.	From	To	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	B
AD-1	AUX021002	268.0	270.0	74.02	14.53	1.81	0.03	0.50	4.61	3.11	0.02	0.06	0.38	0.001	
AD-1	AUX021003	289.0	291.0	59.33	17.50	8.96	2.63	2.10	1.62	3.45	0.81	0.15	0.09	0.008	
AD-1	AUX021004	307.0	309.0	75.02	13.69	1.49	0.27	1.41	1.97	4.94	0.04	0.08	0.02	0.001	
AD-1	AUX021005	313.0	315.0	57.48	19.06	9.45	2.50	1.49	1.29	4.00	0.82	0.14	0.09	0.014	
AD-1	AUX021006	339.0	341.0	59.45	18.06	9.10	2.75	1.94	1.41	2.98	0.78	0.15	0.11	0.010	

HOLE_ID	SAMPLE No.	From	To	Sc ppm	LOI %	TOT/C %	TOT/S %	SUM %	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm
AD-1	AUX021002	268.0	270.0	1	0.8	0.03	0.01	99.87	1.1	5.9	34.5	1.4	87.2	694.7	11	5.3
AD-1	AUX021003	289.0	291.0	16	3.1	0.06	0.01	99.82	20.2	11.1	24.4	6.0	12.9	202.2	5	108.3
AD-1	AUX021004	307.0	309.0	1	1.0	0.06	0.01	100.01	1.4	5.1	12.7	1.3	3.0	226.4	1	146.9
AD-1	AUX021005	313.0	315.0	18	3.5	0.03	0.01	99.92	21.8	13.8	29.1	4.6	16.8	311.2	5	113.8
AD-1	AUX021006	339.0	341.0	17	3.0	0.01	0.01	99.83	21.0	7.8	24.3	4.9	10.8	151.0	4	122.8

HOLE_ID	SAMPLE No.	From	To	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm
AD-1	AUX021002	268.0	270.0	20.2	3.8	4.2	5	5.5	27.7	13.3	2.5	6.2	0.66	2.1	0.7	0.05
AD-1	AUX021003	289.0	291.0	1.1	21.8	2.5	92	2.0	196.8	38.8	67.0	128.7	14.01	51.8	8.9	1.52
AD-1	AUX021004	307.0	309.0	1.1	6.6	1.3	7	2.6	40.1	40.5	18.4	34.0	3.69	13.6	2.8	0.61
AD-1	AUX021005	313.0	315.0	1.3	24.8	1.6	97	4.0	163.6	29.9	62.1	117.6	12.84	48.5	8.3	1.41
AD-1	AUX021006	339.0	341.0	1.0	24.3	2.4	91	0.7	186.5	31.3	59.2	115.6	12.66	48.5	8.6	1.36

HOLE_ID	SAMPLE No.	From	To	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm
AD-1	AUX021002	268.0	270.0	0.87	0.21	1.53	0.28	0.94	0.24	2.00	0.33	0.2	4.9	21.8	18	1.2
AD-1	AUX021003	289.0	291.0	6.32	0.99	5.36	1.02	2.74	0.39	2.54	0.37	0.5	2.4	28.9	104	40.1
AD-1	AUX021004	307.0	309.0	3.08	0.74	5.46	1.25	4.20	0.73	5.24	0.81	0.3	2.8	39.4	9	2.3
AD-1	AUX021005	313.0	315.0	6.44	0.96	5.44	1.03	2.72	0.40	2.31	0.35	0.4	1.3	25.2	98	46.5
AD-1	AUX021006	339.0	341.0	6.87	1.02	5.54	1.13	2.93	0.43	2.79	0.40	0.2	1.4	29.6	99	41.5

HOLE_ID	SAMPLE No.	From	To	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Tl ppm	Au ppb	Pd ppb	Pt ppb
AD-1	AUX021002	268.0	270.0	1	0.1	0.1	0.1	0.1	3.0	0.5	10	2
AD-1	AUX021003	289.0	291.0	1	0.1	0.1	0.1	0.1	1.0	1.2	10	2
AD-1	AUX021004	307.0	309.0	1	0.1	0.1	0.1	0.1	1.0	0.7	10	2
AD-1	AUX021005	313.0	315.0	1	0.1	0.1	0.1	0.1	1.6	0.5	10	2
AD-1	AUX021006	339.0	341.0	1	0.1	0.1	0.2	0.1	0.8	1.5	10	2

852 East Hastings Street. Vancouver, BC, Canada V6A 1R6

Ph: (604) 253-3158 Fax (604) 253-1716 Toll free (North America only): 1-800-990-2263 E-mail: info@acmelab.com

COMPANY: ANGLO AMERICAN AUSTRALIA

FILE#: A202320

BATCH: AU000063

PROJECT: NIL

TYPE OF SAMPLES: ROCK PULP

PREPARATION: NIL

ANALYTICAL PACKAGES:

53 ELEMENTS, GROUP 1F-MS

REAGENTS:

2:2:2 HNO3-HCL-H2O

SAMPLE SIZE:

WEIGHTS (g)	ACID (ml)	FINAL VOL. (ml)
30	180	600
15	90	300
7.5	45	150
1	6	20

PROCEDURE:

Digest in hot water bath for one hour.

INSTRUMENTS:

ICP-MS PERKIN-ELMER ELAN 6000

NOTE:

Package intended for un-mineralized samples.

Partial leached for refractory, alkaline and REE elements.

Not suitable for gold if samples contain massive sulfide and graphite.

* 10x dilution due to high mineralization

Assay recommended for Mo, Cu, Pb, Zn, Ni, As, >10,000ppm

Ag

>99999 ppb

Elements	Detection	Upper Limits	Elements	Detection	Upper Limits	Elements	Detection	Upper Limits
Au	0.2ppb	100ppm	Mg	0.01%	30%	V	2ppm	10000ppm
Ag	2 ppb	100ppm	Mn	1ppm	10000ppm	W	0.01ppm	100ppm
Al	0.001%	10%	Mo	0.01ppm	2000ppm	Zn	0.1ppm	10000ppm
As	0.1ppm	10000ppm	Na	0.001%	10%	Be	0.1ppm	1000ppm
B	1 ppm	2000ppm	Ni	0.1ppm	10000ppm	Ce	0.01ppm	2000ppm
Ba	0.5ppm	10000ppm	P	0.001%	5%	Cs	0.02ppm	2000ppm
Bi	0.02ppm	2000ppm	Pb	0.01ppm	10000ppm	Ge	0.1ppm	100ppm
Ca	0.001%	40%	S	0.01%	10%	Hf	0.02ppm	1000ppm
Cd	0.01ppm	2000ppm	Sb	0.02ppm	2000ppm	In	0.02ppm	1000ppm
Co	0.1 ppm	2000ppm	Sc	0.1ppm	100ppm	Li	0.1ppm	2000ppm
Cr	0.5ppm	10000ppm	Se	0.1ppm	100ppm	Nb	0.02ppm	2000ppm
Cu	0.01ppm	10000ppm	Sr	0.5ppm	10000ppm	Rb	0.1ppm	2000ppm
Fe	0.001%	40%	Te	0.02ppm	100ppm	Re	1ppb	1000ppm
Hg	5ppb	100ppm	Th	0.1ppm	2000ppm	Sn	0.01ppm	100ppm
Ga	0.1ppm	100ppm	Ti	0.001%	10%	Ta	0.05ppm	2000ppm
K	0.001%	10%	Tl	0.02ppm	100ppm	Y	0.1ppm	2000ppm
La	0.5ppm	10000ppm	U	0.01ppm	2000ppm	Zr	0.1ppm	2000ppm
Pd	10ppb	1000 ppb	Pt	2 ppb	1000 ppb			



Suite 1, 16 Brodie-Hall Drive
Technology Park
Bentley, WA, Australia, 6102.
PO Box 1067, Bentley DC
Bentley, WA, Australia, 6983.
Tel: +61 8 6250 8100
Fax: +61 8 6250 8199

Anglo American Exploration (Australia) Pty. Ltd.
A.C.N. 006 195 982

EL 2679 “MANGURI”
Annual Report for the Period 13th December 2002 to
12th December 2003

Volume 1 of 1

Tenure Holder: Goldstream Mining NL
Operator: Anglo American Exploration (Australia) Pty Ltd
Author: Adrian Brewer
Date: 14th January, 2004

Distribution

***Primary Industries and Resources South Australia - Mineral Resources
Group (1)***

Anglo American Exploration (Australia) Pty Ltd – Perth Office (2)

Goldstream Mining NL – (1)

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SUMMARY

Exploration Licence 2679, “Manguri” covering an area of 1,243km² lies northwest of Coober Pedy in South Australia. The area is held by Anglo American Exploration (Australia) Pty Ltd in Joint Venture with Goldstream Mining NL, and forms part of a significant tenement holding in the region, which includes the “Mount Woods Joint Venture” between Goldstream Mining NL (tenure holder) and Anglo American Exploration (Australia) Pty Ltd (project operator). AAEA has withdrawn from the Joint Venture during December 2003.

A reduction in area to 1,035km² was completed during the reporting period.

This report describes activities conducted on the tenement area during the period 13th December 2002 to 12th December 2003.

Field activities on this area consisted of a small gravity survey over a potential IOCG target defined in wide spaced regional gravity. Although the anomaly was confirmed, it is believed to be due to a basement horst block and no further work was completed.

KEY WORDS

Coober Pedy, Murloocoppie 1:250,000 map sheet, Proterozoic, Mabel Creek Ridge, Mount Woods Inlier, Coober Pedy Ridge, Iron oxide-Copper-Gold, Gravity, Geophysical Anomalies.

TABLE OF CONTENTS

SUMMARY	i
KEY WORDS	i
LIST OF FIGURES	ii
LIST OF APPENDICES.....	ii
1.0 INTRODUCTION.....	2
2.0 TENURE	2
3.0 PREVIOUS EXPLORATION	2
4.0 REGIONAL GEOLOGY	3
5.0 EXPLORATION ACTIVITIES	4
6.0 EXPENDITURE.....	4
7.0 CONCLUSIONS AND RECOMMENDATIONS.....	4

Digital File List (on CD at back of report)

EL2679_Annual_Report_2003.pdf
EL2679_Figure1.pdf
EL2679_Figure2.pdf
EL2679_Figure3.pdf
EL2679_Appendix1_gravity data.txt

LIST OF FIGURES

- Figure 1** Tenement Location Plan
- Figure 2** Tenement Relinquishment Plan
- Figure 3** Gravity Station Location Plan

LIST OF APPENDICES

- Appendix 1** Gravity Data

1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 2679 “Manguri”, during the period 13th December 2002 to 12th December 2003. Anglo American Exploration (Aust) Pty Ltd became operators on the area during March 2002 in a joint venture with Goldstream Mining NL, and has withdrawn from the joint venture as of December, 2003.

Exploration Licence 2679, “Manguri” covering an area of 1,243km², lies northwest of Coober Pedy in South Australia in the northern Gawler Craton of South Australia (Figure 1). A reduction in the area of approximately 208km² to 1,035 km² was completed in May, 2003. Access is via the sealed Stuart Highway or the unsealed Coober Pedy – Mabel Creek road and then via a series of dirt station tracks, many of which become impassable in wet weather.

EL 2679 is situated on the Mount Clarence and Mount Willoughby Pastoral Leases and lies within the Murloocoppie (SH53-2) 1:250,000 map sheet.

The area is covered in part by the Woomera Prohibited Area and the Coober Pedy Precious Stones Field. The terrain is dominated by generally open gibber plains with areas of bluebush and saltbush, with some low lying salt lake swamps, and is drained by a series of generally poorly defined and intermittent creeks.

Exploration work during the reporting period consisted of a small gravity survey (17 stations) covering a potential gravity/magnetic target identified from regional datasets.

The principal exploration target for the area was Proterozoic iron oxide copper-gold deposits of the Olympic Dam and Prominent Hill type, and magmatic related nickel deposits.

2.0 TENURE

Exploration Licence 2679 (Manguri) was granted to Goldstream Mining NL on 13th December, 1999. Anglo American Exploration (Australia) Pty Ltd became operator of the area by means of a Joint Venture with Goldstream Mining during March 2002 (Figure 1). The tenement now covers an area of approximately 1,035 km² (Figure 2).

3.0 PREVIOUS EXPLORATION

Exploration for iron ore in the Coober Pedy region was undertaken by Delhi Petroleum during 1962-1965, with more extensive base and precious metal exploration, and minor uranium and diamond exploration being carried out by Newmont Ltd (1970-1977), CRA Exploration (1981-1995), BHP Minerals (1991-1995) and WMC Resources (1995-2000), in joint venture with BHP Minerals.

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. Some drilling (principally utilising Rotary Mud/Percussion) of geophysical basement targets under cover was completed but no mineralisation of note was

intersected. Extensive regional RC drilling was also completed by PIRSA as part of the South Australian Steel and Energy Project on the Phillipson and Coober Pedy 1:100,000 map sheets (1995).

During 2001 Anglo American Exploration (Australia) Pty Ltd completed a comprehensive review and compilation of previous work and identified the potential of the area for craton margin magmatic nickel deposits together with a number of aeromagnetic and gravity targets with potential for iron oxide copper-gold style mineralisation.

4.0 REGIONAL GEOLOGY

The Manguri exploration licence covers a portion of the poorly understood Palaeoproterozoic Mabel Creek Inlier, a large block of variable magnetic intensity lying to the north of the Coober Pedy Ridge and the Mount Woods Inlier. These three terranes abut an interpreted Archaean age cratonic area to their south and west. The area contains major regional structures (including the Karari Fault Zone) and is traversed by a several prominent northwest trending structures along which significant thicknesses of Permian sediments have been deposited.

Basement outcrop in the region is generally restricted to the Mount Woods Inlier to the southeast of the tenement, and limited outcrop of Gawler Range Volcanics and Archaean Gneisses further to the south and southwest of the area.

The Mount Woods Inlier comprises high grade Palaeoproterozoic metasedimentary rocks (amphibolite to granulite facies quartzo-feldspathic gneisses, meta-iron formations, quartz-feldspar-biotite schists, metaquartzites, calc-silicates and forsterite marbles) intruded by syn- to post tectonic granitoids, (eg, the Balta Granite, a polyphase Hiltaba Granite equivalent, comprising non-foliated brick-red granite, porphyritic granites and hybrid granites) and is covered by Mesozoic and Tertiary sedimentary cover. The metasediments are characterised by an intense magnetic response in regional aeromagnetic data, which reflects a combination of magnetite rich precursor sediments including BIFs, magnetite alteration, and interpreted probable mafic intrusive bodies. The Inlier is bounded by major shear zones, the most prominent of which is the Karari Fault Zone which bounds the east-west trending Coober Pedy Ridge.

To the north, the Coober Pedy Ridge is separated from the Mabel Creek Ridge by the Permian Tallaringa Trough, and the cover thickness increases markedly. To the west cover thickness also increases due to the presence of Permian and some Cambrian sediments, and increased thickness of Mesozoic cover. Limited previous exploration drilling (primarily for coal) has shown that the cover sequences, generally comprising Cretaceous sediments of the Cadna-Owie Formation, Algebuckina Sandstone and the Bulldog Shale, which are in turn overlain by Tertiary, Quaternary and recent cover, typically exceeds 150m in depth over the area. Basement is interpreted to be greater than 200m over much of the tenement and to increase significantly to the north and south, with several prominent Permian channel features present both within and external to the area.

5.0 EXPLORATION ACTIVITIES

Following a review of previous exploration, including available public domain geophysical data sets, supplemented by geological reconnaissance on adjoining tenements, a small gravity survey comprising 17 stations was completed over a potential IOCG target area within the tenement (Figure 3). Interpretation of this data in combination with other regional information indicates that this anomaly is probably due to a basement horst block, a feature seen throughout the area.

Continued interpretation of geophysical datasets has failed to identify additional targets within the area.

6.0 EXPENDITURE

Expenditure over the licence area during the reporting period is summarised below –

Staff Salaries & wages	\$2,881
Contract and Consulting Geologists, Field Assistants	\$3,346
Safety, Health and Environment	\$0
Aboriginal cultural clearances	\$603
Ground geophysical surveys	\$1,300
Geophysical Consultants and Interpretation	\$0
Drilling	\$0
Assaying	\$61
Communications	\$53
Printing and Digital Data	\$0
Tenure Maintenance	\$4,639
Field Expenses	\$616
Travel & accommodation	\$2,001
Vehicle hire/fuel/maintenance	\$606
Administration overheads @ 15% of above	\$2,416
TOTAL	\$18,522

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 2679 covers a portion of the northeastern Mabel Creek Ridge, an area considered prospective for Proterozoic iron oxide copper-gold and magmatic nickel styles of mineralisation.

Additional interpretation of available geophysical datasets undertaken during the period coupled with further data acquisition has failed to enhance the prospectivity of the area for IOCG style mineralisation. Cover depths over much of the area are interpreted to be greater than 200 metres, further limiting the prospectivity of the area for this style of mineralisation.

No further work is planned by AAEA on the area and the tenement has been returned to Goldstream Mining following the withdrawal of AAEA from the Joint Venture.

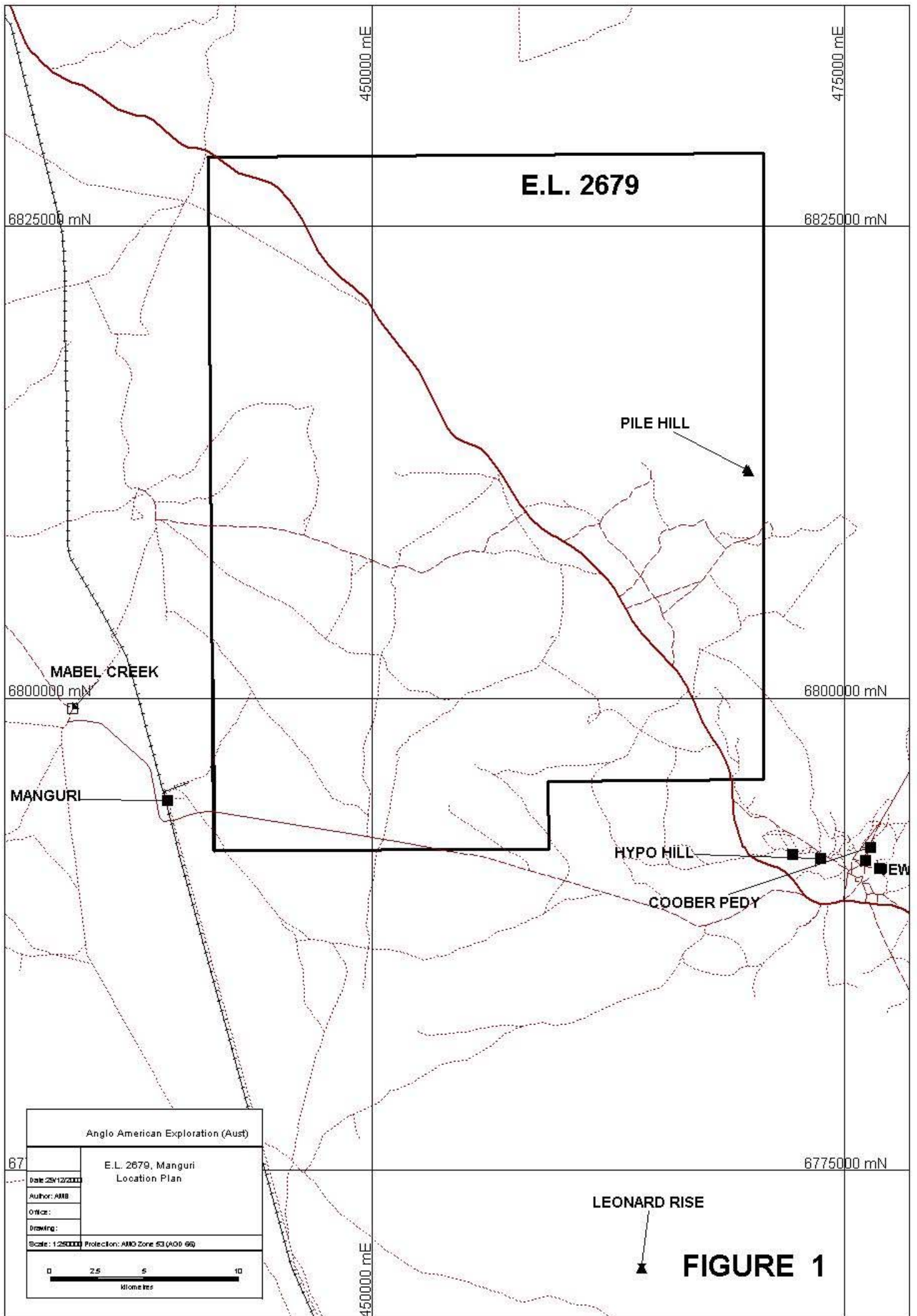
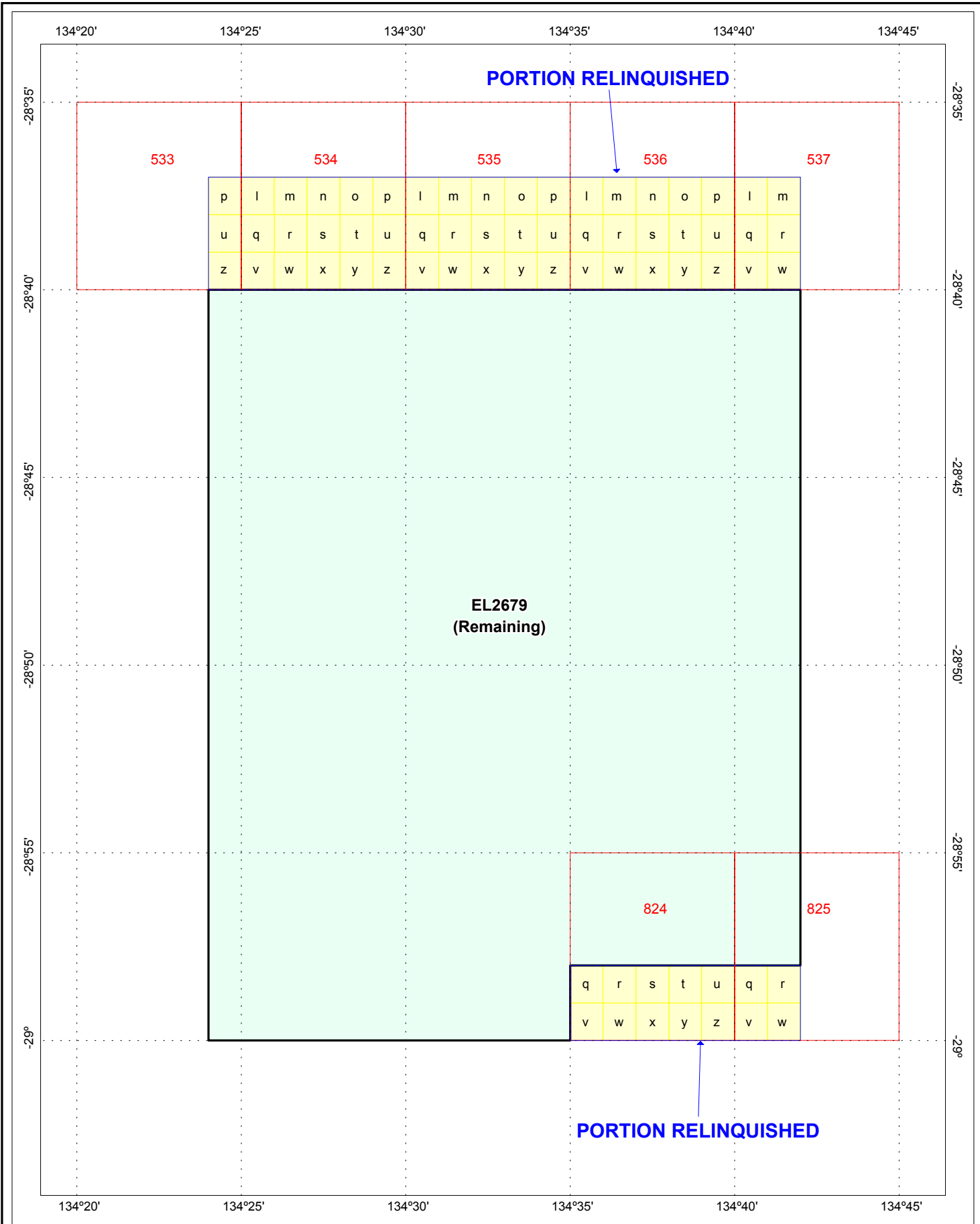


FIGURE 1



LOCATION MAP



REGION: GAWLER
PROJECT: COOBER PEDY
DRAWING No: AUS_SA_COO_TN_12013.WOR

AUTHOR:
C Tomich

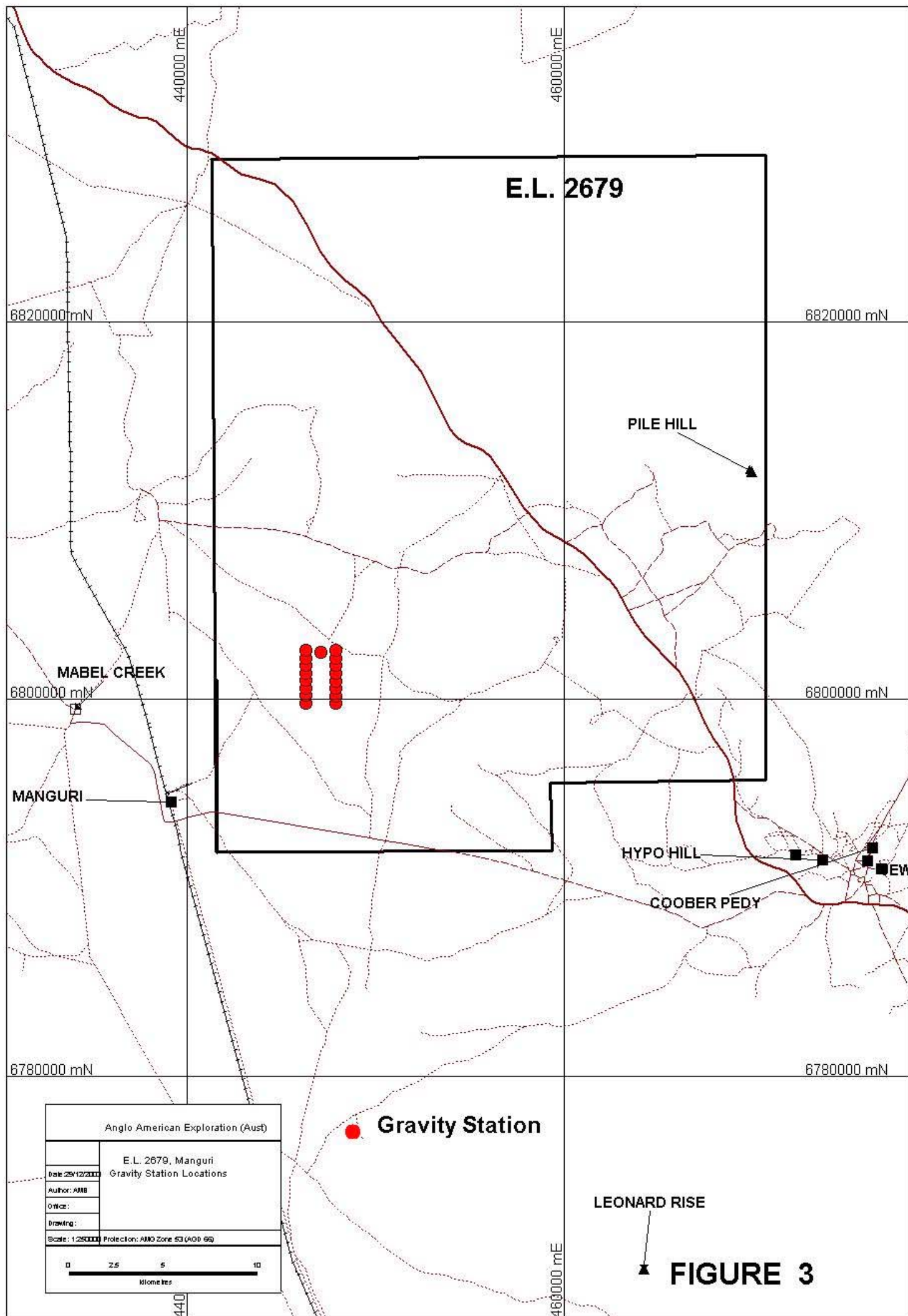
COMPILED BY:
C Lucy

DATE:
01/05/2003

PROJECTION:
Long/Lat (AGD 84)

SCALE:
1:250,000

EL2679 TENEMENT RELINQUISHMENT



EL2679_Appendix 1_Gravity Data

EAST_GDA94	NORTH_GDA94	G_obs	elevation	Boug_anom_2p67	Station	Line
446421.2	6799972	979181.47	206.487	-18.883	-20	4630
446424.7	6800379.9	979182.93	204.594	-17.514	20	4630
446433.8	6800767.3	979182.75	208.474	-16.664	60	4630
446428.8	6801177.2	979182.58	209.975	-16.256	100	4630
446422.4	6801578.6	979181.86	210.989	-16.494	140	4630
446427.3	6801978.9	979181.28	211.544	-16.698	180	4630
446434.9	6802374.5	979180.09	213.701	-17.186	220	4630
446436.1	6802770.2	979179.43	214.551	-17.406	260	4630
448034.8	6799968.2	979185.07	205.233	-15.533	-20	4790
448041.1	6800364.1	979185.86	207.637	-14.002	20	4790
448034	6800774.8	979185.86	209.154	-13.415	60	4790
448034.6	6801161.3	979185.29	210.85	-13.39	100	4790
448032.6	6801561.2	979184.67	211.584	-13.589	140	4790
448047.8	6801976.9	979183.07	216.462	-13.943	180	4790
448031.9	6802363.7	979182.26	217.697	-14.238	220	4790
448016.3	6802778.2	979181.18	219.071	-14.766	260	4790
447230.3	6802654	979180.35	219.018	-15.69	1103	0



GOLDSTREAM MINING NL

ABN 67 009 129 560

EL 2679 'Manguri'

Annual Report for the Period

13th December 2003 to 12th December 2004.

Volume 1 of 1

Holder/ Operator: Goldstream Mining N.L.

Level 2, 28-42 Ventnor Ave West Perth
PO Box 1784, West Perth WA 6872

Compiled by: Bianca Manzi and Ian Garsed

Date: 10 February 2005

Distribution: *PIRSA - (2)*
Goldstream Mining NL - (2)

SUMMARY

This report describes exploration activities undertaken on Exploration Licence 2679 'Manguri' between 13th December 2003 to 12th December 2004.

EL2679 covers an area of 1,039km², northwest of Coober Pedy in South Australia, and is part of the Mt Woods Project. Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream Mining NL (Goldstream) and Anglo American Exploration (Australia) Pty Ltd (Anglo). On February 11 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

EL2679 has just completed its fifth and final year of tenure, an application for a Subsequent Replacement Licence was submitted to PIRSA on the 4 November 2004 and is currently being assessed (ref 2004/00831- last correspondence from PIRSA 26 November 2004).

No field work was conducted during the report period however exploration activities have included re-assessing exploration conducted by Anglo during the past 3 years, and target generation. Two IOCG geophysical targets were generated by the data review, MA5 and MA15. Detailed geophysical modelling of gravity and magnetics data is recommended for both targets in order to determine target depths and geometry. If warranted a drilling programme will be proposed.

Total expenditure for the reporting period was \$ 5,765

KEY WORDS

Coober Pedy, Murloocoppie 1:250,000 map sheet, Proterozoic, Mabel Creek Ridge, Mount Woods Inlier, Iron Oxide-Copper-Gold, IOCG, Base Metals, Magnetism, Gravity, Geophysical Anomalies

TABLE OF CONTENTS

SUMMARY

KEY WORDS

DIGITAL FILES (ON REPORT CD)	i
LIST OF FIGURES	i
LIST OF TABLES	i
1.0 INTRODUCTION	1
2.0 TENURE	1
3.0 REGIONAL GEOLOGY	3
4.0 PREVIOUS EXPLORATION	3
5.0 EXPLORATION ACTIVITIES	4
5.1 TARGET GENERATION DATA REVIEW	4
6.0 EXPENDITURE	6
7.0 CONCLUSIONS AND RECOMMENDATIONS	6
8.0 REFERENCES	6

DIGITAL FILES (ON REPORT CD)

EL2679_Annual Report_2004.pdf

LIST OF FIGURES

- Figure 1 Tenement Location
Figure 2 Residual Gravity and Target Locations

LIST OF TABLES

- Table 1 Tenement Details
Table 2 Expenditure 2003 to 2004

1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 2679, 'Manguri' during the reporting period 13th December 2003 to 12th December 2004.

Manguri EL2679 is located approximately 40 km northeast of Coober Pedy in the northern Gawler Craton of South Australia (Figure 1). Access is via the sealed Stuart Highway and then via a series of dirt station tracks, many of which become impassable in wet weather. EL2679 is situated on the Mount Clarence and Mount Willoughby Pastoral Leases within the Murloocoppie (SH 53-02) 1:250,000 map sheet. It lies partially within the Woomera Prohibited Area. The terrain is dominantly gibber plains with areas of bluebush and saltbush, and some low lying salt lake swamps. It is drained by a series of intermittent creeks.

Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream and Anglo. On February 11 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

2.0 TENURE

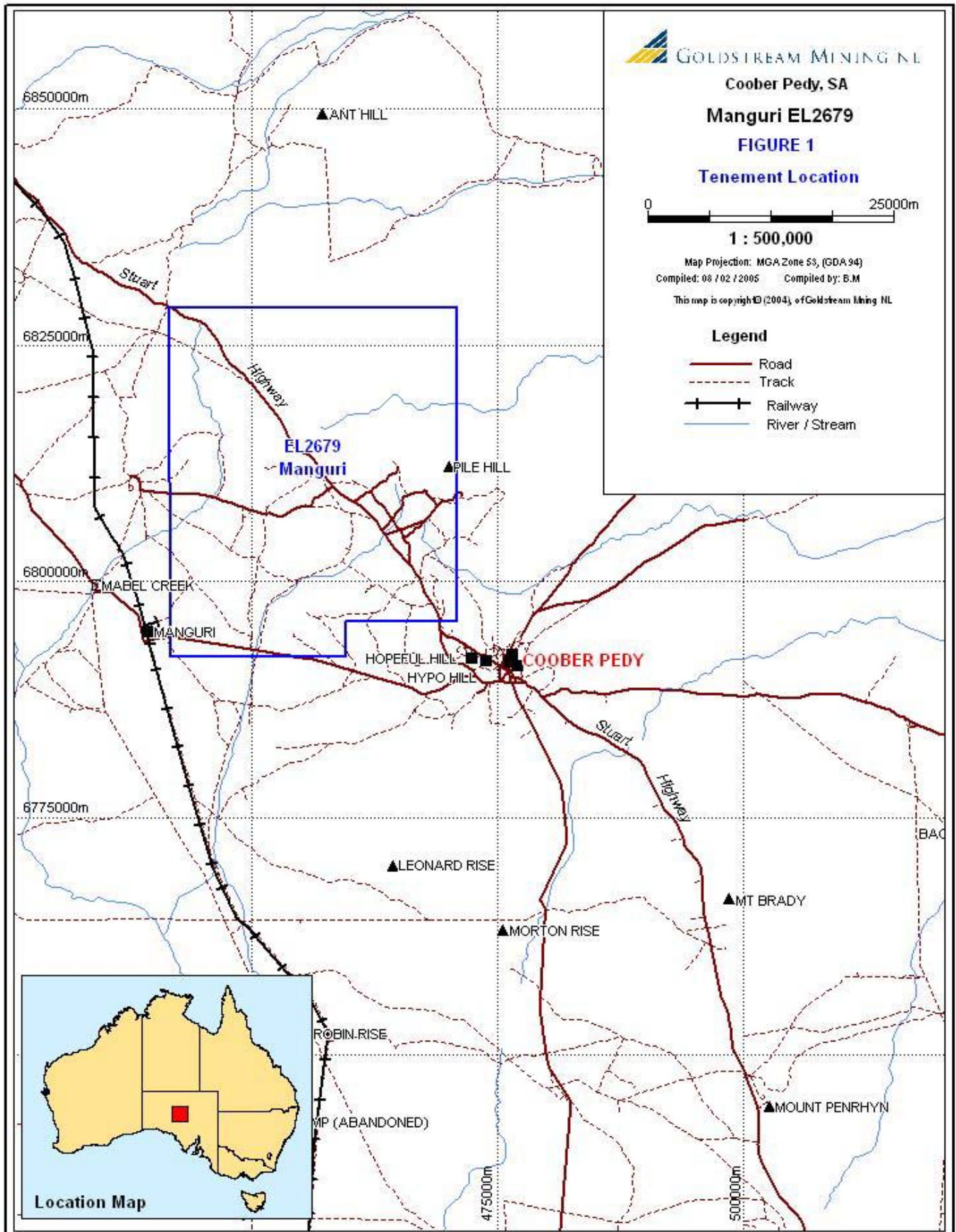
Exploration Licence 2679 was originally granted to Goldstream Mining NL on 13th December 1999 for a period of 12 months (Table 1). It has subsequently been renewed for additional 12 month periods and has just completed its fifth and final year. An application for a Subsequent Replacement Licence was submitted to PIRSA on the 4 November 2004 and is currently being assessed (ref 2004/00831- last correspondence from PIRSA 26 November 2004).

The lease is part of the Mt Woods Project Amalgamated Expenditure Agreement with the Department of Primary Industries and Resources South Australia (PIRSA) dated 6 October 2004. This agreement covers the period 1 May 2004 to 30 April 2005. It has also been the subject of previous Amalgamated Expenditure Agreements during the past 5 years.

The licence initially covered an area of approximately 1,243km² and has been reduced to 1,039km² under

Table 1 Licence Details

Licence	Granted	Expiry	Year	Area	Commitment
EL2679	13 December 1999	12 December 2004	5	1,039 km ²	\$130,000
Subsequent Renewal Application 2004/00831 - pending					



3.0 REGIONAL GEOLOGY

The Manguri exploration licence covers a portion of the poorly understood Palaeoproterozoic Mabel Creek Inlier, a large block of variable magnetic intensity lying to the north of the Coober Pedy Ridge and the Mount Woods Inlier. These three terranes abut an interpreted Archaean age cratonic area to their south and west. The area contains major regional structures (including the Karari Fault Zone) and is traversed by a several prominent northwest trending structures along which significant thicknesses of Permian sediments have been deposited.

Basement outcrop in the region is generally restricted to the Mount Woods Inlier to the southeast of the tenement, and limited outcrop of Gawler Range Volcanics and Archaean Gneisses further to the south and southwest of the area.

The Mount Woods Inlier comprises high grade Palaeoproterozoic metasedimentary rocks (amphibolite to granulite facies quartzo-feldspathic gneisses, meta-iron formations, quartz-feldspar-biotite schists, metaquartzites, calc-silicates and forsterite marbles) intruded by syn- to post tectonic granitoids, (eg, the Balta Granite, a polyphase Hiltaba Granite equivalent, comprising non-foliated brick-red granite, porphyritic granites and hybrid granites) and is covered by Mesozoic and Tertiary sedimentary cover. The metasediments are characterised by an intense magnetic response in regional aeromagnetic data, which reflects a combination of magnetite rich precursor sediments including BIFs, magnetite alteration, and interpreted probable mafic intrusive bodies. The Inlier is bounded by major shear zones, the most prominent of which is the Karari Fault Zone which bounds the east-west trending Coober Pedy Ridge.

To the north, the Coober Pedy Ridge is separated from the Mabel Creek Ridge by the Permian Tallaringa Trough, and the cover thickness increases markedly. To the west cover thickness also increases due to the presence of Permian and some Cambrian sediments, and increased thickness of Mesozoic cover. Limited previous exploration drilling has shown that the cover sequences generally comprising Cretaceous sediments of the Cadna-Owie Formation, Algebuckina Sandstone and the Bulldog Shale, which are in turn overlain by Tertiary, Quaternary and recent cover, is highly variable over the tenement area. Basement is interpreted to deepen to the south of the tenement into the Phillipson Trough.

Extensive pre and post tectonic alteration can be observed from drill holes in the region. Hematite±magnetite±sulphide breccias, iron introduction into meta-sediments and calcium-iron silicate alteration have been reported.

4.0 PREVIOUS EXPLORATION

Exploration for iron ore in the Coober Pedy region was undertaken by Delhi Petroleum during 1962-1965, with more extensive base and precious metal exploration, and minor uranium and diamond exploration being carried out by Newmont Ltd (1970-1977), CRA Exploration (1981-1988), BHP Minerals (1991-1995) and WMC Resources (1995-2000, in joint venture with BHP Minerals). Some drilling of geophysical basement targets under cover was completed but no mineralisation of note was intersected.

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. Some drilling (principally utilising Rotary Mud/Percussion) of geophysical basement targets under cover was completed but no mineralisation of note was intersected. Extensive regional RC drilling was also completed by PIRSA as part of the South

Australian Steel and Energy Project on the Phillipson and Coober Pedy 1:100,000 map sheets (1995).

Between 2001 and 2003 Anglo joint ventured into the ground and managed exploration on behalf of Goldstream. Initial exploration by Anglo involved a comprehensive review and compilation of previous work which identified the potential of the area for craton margin magmatic nickel deposits together with a number of aeromagnetic and gravity targets with potential for iron oxide copper-gold style mineralisation (IOCG). Aboriginal cultural heritage clearance surveys were completed to allow a ground geophysical gravity survey (17 stations) over an IOCG target, Diamond drill testing of a magnetically negative geophysical target (1 hole for 343.7m, AD-1), petrography (4), and a regional tectonic interpretation to be conducted. Results of the geophysical survey were considered to downgrade the potential of the IOCG target with the anomaly interpreted as being due to a basement horst block. Anglo subsequently withdrew from the joint venture.

5.0 EXPLORATION ACTIVITIES

Exploration over the licence during the reporting period has involved re-assessing exploration that has been conducted by Anglo and other explorers in order to determine the exploration potential of the licence.

5.1 TARGET GENERATION DATA REVIEW

In February 2004, Garsed & Associates were contracted to conduct a detailed assessment of previous exploration conducted over the entire Mt Woods Project licences which included EL2769.

Previous exploration over the Manguri tenement has been restricted to testing anomalies in the southern part of the licence. BHP drilled an east-west linear magnetic anomaly on the southern boundary of the tenement. Hole NC9307 drilled 196m of unconsolidated cover before intersecting quartz-feldspar-chlorite gneisses which are partially garnetiferous and hematite-altered. Anomalous copper results up to 270ppm were returned. BHP also drilled a linear magnetic anomaly on the western edge of a major magnetic low in the central western part of the licence. Hole NC94004 intersected basement stratigraphy of pegmatite-veined quartz-feldspar-biotite gneisses at 202m. No anomalous results were recorded and magnetite breccia zones within the pegmatites were considered to be the source of the magnetic anomaly.

In 2002, Anglo drilled a single diamond hole AD-1 in the northern part of the licence. The drilling was designed to target potential mafic Ni mineralisation, however no mafics were encountered. Instead, a thick 262.2m cover sequence of Mesozoic and Permian sediments was intersected above basement pelitic gneisses.

Two main IOCG geophysical targets MA5 and MA15 were identified within the Manguri tenement (Figure 2). These targets were selected on the basis of their amplitude (max 1.7) in the residual gravity grid and their interpreted geological setting. Neither target has been previously tested or explored (Garsed, 2004).

The residual gravity signature over EL2679 shows that for the most part the gravity response is fairly subdued with higher amplitudes in the west (Figure 2). These high amplitude responses occur on the edge of a major, regional gravity high that may represent voluminous mafic intrusives within the Mabel Creek sub domain.

Target MA15 is located in the northern part of the tenement and is the peak of a large gravity anomaly that may also represent a mafic intrusive complex. It occurs immediately south of a untested discrete magnetic anomaly. Similarly, target MA5 is part of a co-incident magnetic and gravity complex and may represent a mafic intrusive complex or an IOCG system.

Historical drilling by BHP and Anglo in the Manguri tenement suggests that the depth to the basement targets may be considerable. It is recommended that additional modelling of gravity and the magnetic anomalies be conducted in order to determine target depths and geometries prior to proposing any drill programmes.

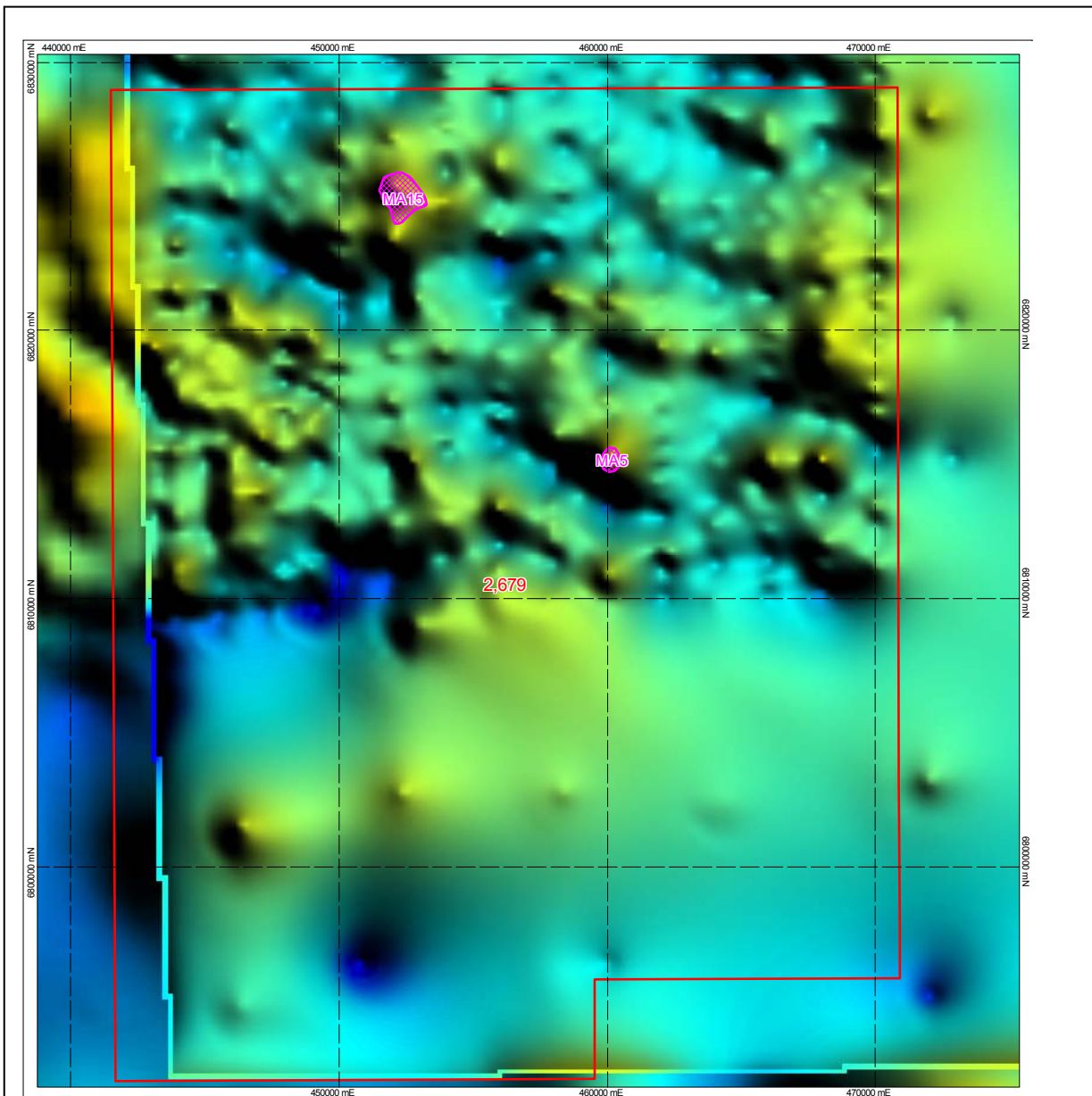


Figure 2. Residual gravity image for EL2679 Manguri showing IOCG target areas.

6.0 EXPENDITURE

Expenditure for Manguri, EL2679 for the reporting period ending 13th December 2003 to 12th December 2004 is listed below.

Table 2 Expenditure 2003 to 2004.

ITEM	Amount
Computing and Software	\$ 586
Geophysical Consultants and Interpretation	\$ 450
Printing and Digital Data	\$ 65
Staff Salaries and on costs	\$ 1,045
Tenure Maintenance	\$ 3,618
TOTAL	\$5,765

7.0 CONCLUSIONS AND RECOMMENDATIONS

During the 2003 to 2004 reporting period, exploration on EL2679 has comprised a data review in order to assess the potential of the licence and generate targets.

Two IOCG geophysical targets were generated by the data review, MA5 and MA15. Detailed geophysical modelling of gravity and magnetics data is recommended for both targets in order to determine target depths and geometry. If warranted a drilling programme will be proposed.

8.0 REFERENCES

Brewer, A., 2003. EL2679 Manguri, Mount Woods Joint Venture Annual Report for the Period 13th December 2001 to 12th December 2002. Anglo American Exploration (Australia) Pty Ltd. *Internal unpublished report for Goldstream Mining NL and PIRSA.*

Brewer, A., 2004. EL2679 Manguri, Mount Woods Joint Venture Annual Report for the Period 13th December 2002 to 12th December 2003. Anglo American Exploration (Australia) Pty Ltd. *Internal unpublished report for Goldstream Mining NL and PIRSA.*

Garsed, I., 2004. Goldstream Mining NL Mt Woods Project , Exploration Review and Target Generation. Volume I & II. Garsed & Associates. *Internal unpublished report for Goldstream Mining NL.*

EL 3318 'Manguri' (Formerly EL 2679)
Annual Report for the Period
14th March 2005 to 13th March 2006.

Volume 1 of 1

Holder/ Operator: Goldstream Mining N.L.

Level 2, 28-42 Ventnor Ave West Perth
PO Box 1784, West Perth WA 6872

Compiled by: B. Manzi and A. da Silva

Date: 14 July 2006

Distribution: *PIRSA - (2)*
Goldstream Mining NL - (2)

SUMMARY

This report describes exploration activities undertaken on Exploration Licence 3318 'Manguri' (formerly EL 2679) between 14th March 2005 and 13th March 2006.

The licence covers an area of 602km², northwest of Coober Pedy in South Australia, and is part of the Mt Woods Project. Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream Mining NL (Goldstream) and Anglo American Exploration (Australia) Pty Ltd (Anglo). On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

In order to retain the Manguri licence, Goldstream applied for and was granted a subsequent replacement licence covering the same area. EL 2679 was replaced by EL 3318, granted March 14th 2005. In compliance with the Mt Woods Amalgamated Expenditure Agreement, Goldstream reduced the licence from 1,039 km² to 602km² on December 19 2005.

No field work was conducted during the report period, however assessment of uranium potential of the palaeochannels and geophysical targets throughout the licence was ongoing. Geological consultants proposed a water bore program to sample for uranium.

Total expenditure for the reporting period was \$ 14,467.

KEY WORDS

Coober Pedy, Murloocoppie 1:250,000 map sheet, Proterozoic, Mabel Creek Ridge, Mount Woods Inlier, Iron Oxide-Copper-Gold, IOCG, Base Metals, Magnetism, Gravity, Geophysical Anomalies

TABLE OF CONTENTS

SUMMARY

KEY WORDS

DIGITAL FILES (ON REPORT CD)	i
LIST OF FIGURES	i
LIST OF TABLES	i
1.0 INTRODUCTION	1
2.0 TENURE	1
3.0 REGIONAL GEOLOGY	2
4.0 PREVIOUS EXPLORATION	2
5.0 EXPLORATION ACTIVITIES	3
6.0 EXPENDITURE	3
7.0 CONCLUSIONS AND RECOMMENDATIONS	3
8.0 REFERENCES	4

DIGITAL FILES (ON REPORT CD)

EL 3318_Annual Report_2005.pdf

LIST OF FIGURES

- Figure 1 Tenement Location
Figure 2 EL 3318 Partial Relinquishment 2005

LIST OF TABLES

- Table 1 Licence Details
Table 2 Expenditure 2005 to 2006

1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 3318 (formerly EL 2679), 'Manguri' during the reporting period 14th March 2005 to 13th March 2006.

Manguri EL 3318 is located approximately 40 km northeast of Coober Pedy in the northern Gawler Craton of South Australia (Figure 1). Access is via the sealed Stuart Highway and then via a series of dirt station tracks, many of which become impassable in wet weather. EL 3318 is situated on the Mount Clarence and Mount Willoughby Pastoral Leases within the Murloocoppie (SH 53-02) 1:250,000 map sheet. It lies partially within the Woomera Prohibited Area. The terrain is dominantly gibber plains with areas of bluebush and saltbush, and some low lying salt lake swamps. It is drained by a series of intermittent creeks.

Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream and Anglo. On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

2.0 TENURE

Exploration Licence 2679 was originally granted to Goldstream Mining NL on 13th December 1999 for a period of 12 months (Table 1). It was subsequently renewed for additional 12 month periods and completed its fifth and final year in 2004. The licence initially covered an area of approximately 1,243km² and was reduced to 1,039km² on 13th May 2003.

In order to retain the area and continue exploration activities Goldstream applied for, and was granted a subsequent replacement exploration licence covering the same area. The Manguri licence EL 2679 is now replaced by EL 3318, having commenced on March 14th 2005. There was a 3 month delay during the renewal process resulting in the December to March change of grant date. There were no exploration activities during the interim.

As per the terms of the Mt Woods Amalgamated Expenditure Agreement, Goldstream applied to reduce the licence to 602km² on December 19th 2005 (Figure 2).

Table 1 Licence Details

Licence	Granted	Expiry	Year	Area	Commitment
EL 2679	13 December 1999	12 December 2004	5	1,039 km ²	\$130,000
EL 3318	14 March 2005	13 March 2007	1	602 km ²	\$180,000

The lease is part of the Mt Woods Project Amalgamated Expenditure Agreement with the Department of Primary Industries and Resources South Australia (PIRSA) dated 6 October 2004. This agreement covers the period 1 May 2004 to 30 April 2005. It had been the subject of Amalgamated Expenditure Agreements during the previous 5 years. An extension to the Amalgamated Expenditure Agreement was granted dated 23 February 2006 and covers the period 1 May 2005 to 30 April 2006 when it is due to expire.

Coober Pedy, SA

Manguri EL3318

FIGURE 1

Tenement Location

0 25000m

1 : 500,000

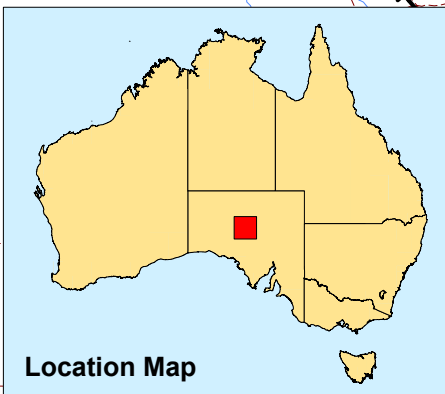
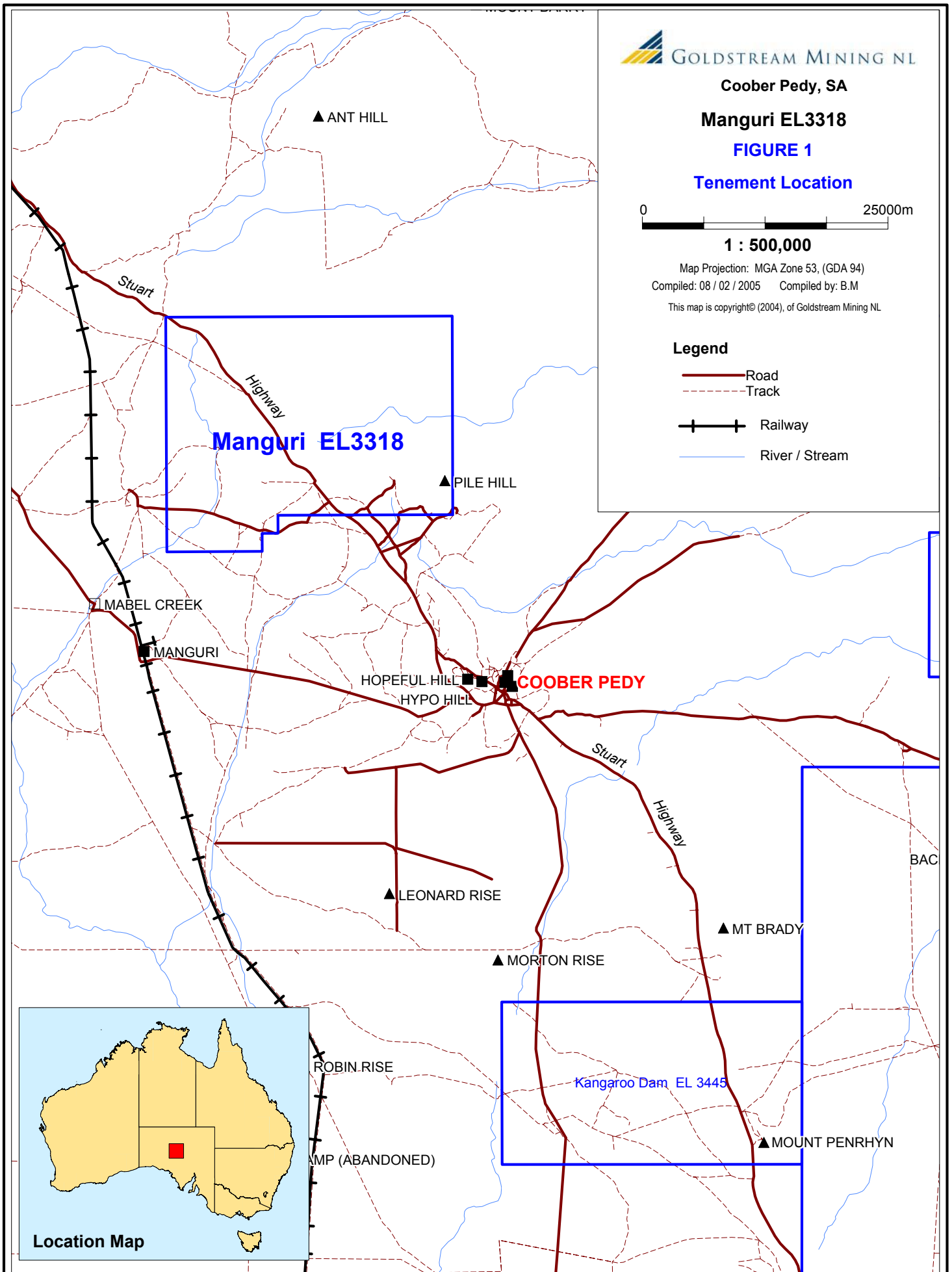
Map Projection: MGA Zone 53, (GDA 94)

Compiled: 08 / 02 / 2005 Compiled by: B.M

This map is copyright© (2004), of Goldstream Mining NL

Legend

-  Road
-  Track
-  Railway
-  River / Stream



SOUTH AUSTRALIA

**MT WOODS PROJECT
COOBER PEDY**

**Manguri EL3318
Partial Relinquishment**



1 : 200,000

Map Projection: Longitude / Latitude (AGD 66)

Compiled: 12 / 12 / 2005 Compiled by: BM

Figure 2

Legend

 Area Relinquished 405.8 sq km

 Area Retained

**Manguri EL3318
(area retained)**

749

750

751

752

753

821

822

823

824

825

3.0 REGIONAL GEOLOGY

The Manguri exploration licence covers a portion of the poorly understood Palaeoproterozoic Mabel Creek Inlier, a large block of variable magnetic intensity lying to the north of the Coober Pedy Ridge and the Mount Woods Inlier. These three terranes abut an interpreted Archaean age cratonic area to their south and west. The area contains major regional structures (including the Karari Fault Zone) and is traversed by a several prominent northwest trending structures along which significant thicknesses of Permian sediments have been deposited.

Basement outcrop in the region is generally restricted to the Mount Woods Inlier to the southeast of the tenement, and limited outcrop of Gawler Range Volcanics and Archaean Gneisses further to the south and southwest of the area.

The Mount Woods Inlier comprises high grade Palaeoproterozoic metasedimentary rocks (amphibolite to granulite facies quartzo-feldspathic gneisses, meta-iron formations, quartz-feldspar-biotite schists, metaquartzites, calc-silicates and forsterite marbles) intruded by syn- to post tectonic granitoids, (eg, the Balta Granite, a polyphase Hiltaba Granite equivalent, comprising non-foliated brick-red granite, porphyritic granites and hybrid granites) and is covered by Mesozoic and Tertiary sedimentary cover. The metasediments are characterised by an intense magnetic response in regional aeromagnetic data, which reflects a combination of magnetite rich precursor sediments including BIFs, magnetite alteration, and interpreted probable mafic intrusive bodies. The Inlier is bounded by major shear zones, the most prominent of which is the Karari Fault Zone which bounds the east-west trending Coober Pedy Ridge.

To the north, the Coober Pedy Ridge is separated from the Mabel Creek Ridge by the Permian Tallaringa Trough, and the cover thickness increases markedly. To the west cover thickness also increases due to the presence of Permian and some Cambrian sediments, and increased thickness of Mesozoic cover. Limited previous exploration drilling has shown that the cover sequences generally comprising Cretaceous sediments of the Cadna-Owie Formation, Algebuckina Sandstone and the Bulldog Shale, which are in turn overlain by Tertiary, Quaternary and recent cover, is highly variable over the tenement area. Basement is interpreted to deepen to the south of the tenement into the Phillipson Trough.

Extensive pre and post tectonic alteration can be observed from drill holes in the region. Hematite±magnetite±sulphide breccias, iron introduction into meta-sediments and calcium-iron silicate alteration have been reported.

4.0 PREVIOUS EXPLORATION

Exploration for iron ore in the Coober Pedy region was undertaken by Delhi Petroleum during 1962-1965, with more extensive base and precious metal exploration, and minor uranium and diamond exploration being carried out by Newmont Ltd (1970-1977), CRA Exploration (1981-1988), BHP Minerals (1991-1995) and WMC Resources (1995-2000, in joint venture with BHP Minerals). Some drilling of geophysical basement targets under cover was completed but no mineralisation of note was intersected.

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. Some drilling (principally utilising Rotary Mud/Percussion) of geophysical basement targets under cover was completed but no mineralisation of note was intersected. Extensive regional RC drilling was also completed by PIRSA as part of the South Australian Steel and Energy Project on the Phillipson and Coober Pedy 1:100,000 map sheets (1995).

Between 2001 and 2003 Anglo joint ventured into the ground and managed exploration on behalf of Goldstream. Initial exploration by Anglo involved a comprehensive review and compilation of previous work which identified the potential of the area for craton margin magmatic nickel deposits together with a number of aeromagnetic and gravity targets with potential for iron oxide copper-gold style mineralisation (IOCG). Aboriginal cultural heritage clearance surveys were completed to allow a ground geophysical gravity survey (17 stations) over an IOCG target, Diamond drill testing of a magnetically negative geophysical target (1 hole for 343.7m, AD-1), petrography (4), and a regional tectonic interpretation to be conducted. Results of the geophysical survey were considered to downgrade the potential of the IOCG target with the anomaly interpreted as being due to a basement horst block. Anglo subsequently withdrew from the joint venture.

In February 2004, Garsed & Associates were contracted by Goldstream to conduct a detailed assessment of previous exploration conducted over the entire Mt Woods Project licences which included EL 3318. Full details of the review were reported by Manzi and Garsed 2004.

5.0 EXPLORATION ACTIVITIES

Exploration activities during the reporting period have focussed on evaluating the uranium potential of palaeochannels throughout the licence area, as well as geophysical gravity and magnetic targets. Geological consultants have proposed a programme of water bore sampling for uranium. Assessment is continuing.

In accordance with the Mt Woods Amalgamated Expenditure Agreement, Goldstream applied to reduce the licence from 1,039 km² to 602km² on December 19th 2005.

6.0 EXPENDITURE

Expenditure for EL 3318 for the reporting period 14th March 2005 to 13th March 2006 is listed below.

Table 2 Expenditure 2005 to 2006.

ITEM	Amount
Geological Consultants	\$ 4,736
Tenement Costs	\$ 7,032
Salaries	\$ 813
Overheads (15%)	\$ 1,887
TOTAL	\$ 14,467

7.0 CONCLUSIONS AND RECOMMENDATIONS

During the reporting period, the evaluation of uranium potential of palaeochannels and geophysical targets throughout the licence area was ongoing. Geological consultants proposed a water bore program to sample for uranium.

Goldstream reduced the licence area from 1,039 km² to 602km² in accordance with the Mt Woods Amalgamated Expenditure Agreement.

8.0 REFERENCES

Brewer, A., 2003. EL 2679 Manguri, Mount Woods Joint Venture Annual Report for the Period 13th December 2001 to 12th December 2002. Anglo American Exploration (Australia) Pty Ltd. *Internal unpublished report for Goldstream Mining NL and PIRSA.*

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Contents

Introduction	2
Location Diagram	3
GPS Observations and Processing	4
Gravity Observations	4
Survey Control	5
Point Numbering and Marking	6
Gravity Processing	8
Results Formats	10
Production Log	11
Repeat Observation Results	12
Plots- Mabel Creek (area 1)	
Station Locations	14
Stations and Bouguer Anomaly Contours	15
Bouguer Anomaly Contours and Zoned Image	16
Bouguer - Elevation Profiles	17
Plots- Mabel Creek (area 2)	
Station Locations	29
Stations and Bouguer Anomaly Contours	30
Bouguer Anomaly Contours and Zoned Image	31
Bouguer - Elevation Profiles	32
Plots- Mabel Creek (area 3)	
Station Locations	35
Stations and Bouguer Anomaly Contours	36
Bouguer Anomaly Contours and Zoned Image	37
Bouguer - Elevation Profiles	38
Plots- Mabel Creek (area 4)	
Station Locations	39
Stations and Bouguer Anomaly Contours	40
Bouguer Anomaly Contours and Zoned Image	41
Bouguer - Elevation Profiles	42
Plots- Mabel Creek (area 5)	
Station Locations	45
Stations and Bouguer Anomaly Contours	46
Bouguer Anomaly Contours and Zoned Image	47
Bouguer - Elevation Profiles	48
Plots- Mabel Creek (area 6)	
Station Locations	53
Stations and Bouguer Anomaly Contours	54
Bouguer Anomaly Contours and Zoned Image	55
Bouguer - Elevation Profiles	56
Plots- Mabel Creek (area 5)	
Station Locations	61
Stations and Bouguer Anomaly Contours	62
Bouguer Anomaly Contours and Zoned Image	63
Bouguer - Elevation Profiles	64
Processed Results	66

Introduction

A detail GPS gravity survey designated as MABEL CREEK 2003 Gravity Survey has been carried out in seven separate areas around the Coober Pedy region in Central South Australia. The survey was carried out over a period of 12 days from 27 March 2003 to 7 April 2003 on behalf of Anglo American Exploration Pty Ltd.

The proposed survey consisted of Seven separate survey grids. Designated as Area 1, Area 2, Area 3, Area 4, Area 5, Area 6 and Area EW Gravity Surveys.

The Mabel Creek (Area 1) Gravity Survey area consisted of 449 detail gravity stations in an irregular grid comprising 21 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 492000E, in the east by 508000E, in the south by 6834800N and in the north by 6845200N. The line lengths ranged from 5200 metres to 10400 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area 2) Gravity Survey area consisted of 69 detail gravity stations in an irregular grid comprising 6 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 and 100 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 529200E, in the east by 534000E, in the south by 6805200N and in the north by 6812400N. The line lengths where 3200 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area 3) Gravity Survey area consisted of 16 detail gravity stations in an regular grid comprising 2 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 446300E, in the east by 447900E, in the south by 6799800N and in the north by 6802600N. The line lengths where 2800 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area 4) Gravity Survey area consisted of 45 detail gravity stations in an irregular grid comprising 5 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 and 200 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 463500E, in the east by 467500E, in the south by 6767500N and in the north by 6766800N. The line lengths ranged from 1600 to 2000 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area 5) Gravity Survey area consisted of 113 detail gravity stations in an irregular grid comprising 9 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 444700E, in the east by 451900E, in the south by 6759000N and in the north by 6763800N. The line lengths ranged from 3200 to 4800 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area 6) Gravity Survey area consisted of 88 detail gravity stations in an irregular grid comprising 9 North-South lines coincident with AMG84 with a line spacing of 1000, 800 and 400 metres and station intervals of 200 and 100 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 502300E, in the east by 508800E, in the south by 6748000N and in the north by 6753200N. The line lengths

ranged from 0 to 3000 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

The Mabel Creek (Area EW) Gravity Survey area consisted of 24 detail gravity stations in an regular grid comprising 3 North-South lines coincident with AMG84 with a line spacing of 800 metres and station intervals of 400 metres. The lines, of irregular length, were bounded in the west by AMG84 Zone 53 526300E, in the east by 529100E, in the south by 6815800N and in the north by 6817400N. The line lengths where 2800 metres. Note some of the stations may have been slight offset due to vegetation and landscape features such as creeks etc.

There were 12 observations repeated for quality control purposes, giving a repeat percentage of 1.5%. The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Figure 1 below shows the location of the survey area.

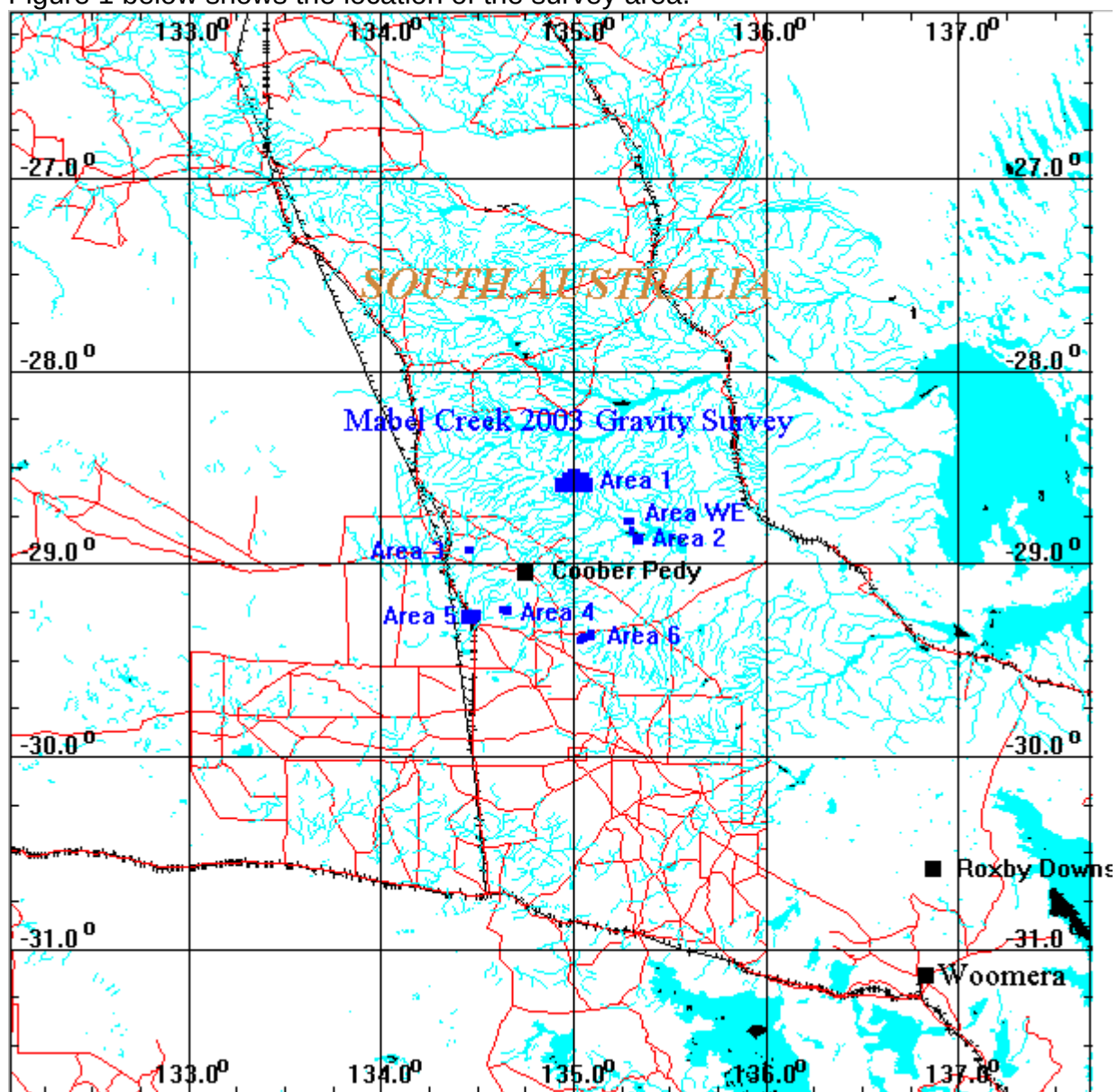


Figure 1. Location Diagram

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series Geodetic receivers.

Measurements to existing control have been made using Static techniques. All static baselines have been processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precisions of at least 5 cm.

Static baseline processing has been done using Trimble GPSurvey Version 2.35 software and RTK processing using Trimble TDC1 firmware and TRIMMAP Version 6.50 software.

The GPS horizontal coordinates (WGS84 datum) have been transformed to and from AGD coordinates using the ICSM published 7 parameters for WGS84 to AGD84. The AGD Latitude and Longitude is then converted into AMG Zone 53 grid coordinates.

The GPS ellipsoidal heights (WGS84 datum) have been corrected to orthometric heights (AHD) using the AusGeoid98 geoid model for the control and the gravity stations.

Details of Horizontal and Vertical control are given in the sections below.

Gravity Observations

Gravity measurements have been made using *Scintrex CG3 Autograv* instruments. The instrument numbers 601307 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 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.

Survey Control

Six local gravity/GPS bases were established in the survey areas and designated 2003 1101, 2003 1102, 2003 1103, 2003 1104, 2003 1105 and 2003 1106. All bases are marked with a metal pin at the natural surface and have conveniently located witness posts with metal tags stamped Haines Surveys "Base 2003 1101" as appropriate.

Horizontal and Vertical control was established on GPS base 2003 1101 using the AUSPOS online GPS Processing Service provided by The National Mapping Division (NMD) of Geoscience Australia. Three days of data each with +8 hours of logged data were processed by AUSPOS giving average cartesian coordinate precisions of sigma X (m) .007, sigma Y (m) .009 and sigma Z (m) .006.

Horizontal control was established on GPS Base 2003 1102 by a processed base line from Wirracanna Trig Station (5940/1001), Vertical control was established on GPS Base 2003 1102 by a processed base line from Bench Mark BM (5939 1043).

Horizontal control was established on GPS Base 2003 1103 by a processed base line from Viks Trig Station (5740/1086), Vertical control was established on GPS Base 2003 1102 by a processed base line from Bench Mark BM (5839 1252)

Horizontal control was established on GPS base 2003 1104 using the AUSPOS online GPS Processing Service provided by The National Mapping Division (NMD) of Geoscience Australia. One day of data with +8 hours of logged data was processed by AUSPOS giving cartesian coordinate precisions of sigma X (m) .004, sigma Y (m) .007 and sigma Z (m) .004. Vertical control was established on GPS Base 2003 1104 by a processed base line from Bench Mark BM (5740 1052).

Horizontal control was established on GPS Base 2003 1105 by a processed base line from Trig Station (5739 1010). Horizontal control was established on GPS base 2003 1105 using the AUSPOS online GPS Processing Service provided by The National Mapping Division (NMD) of Geoscience Australia. Two days of data with +8 hours of logged data was processed by AUSPOS giving cartesian coordinate precisions of sigma X (m) .008, sigma Y (m) .012 and sigma Z (m) .005

Horizontal control was established on GPS base 2003 1106 using the AUSPOS online GPS Processing Service provided by The National Mapping Division (NMD) of Geoscience Australia. One day of data with +8 hours of logged data was processed by AUSPOS giving cartesian coordinate precisions of sigma X (m) .008, sigma Y (m) .012 and sigma Z (m) .008. Vertical control was established on GPS Base 2003 1106 by a processed base line from Bench Mark BMs (5939 1054 and 5939 5067).

All Trig Station and Bench Mark Values were supplied by the Department of Lands South Australia.

Gravity control was established on all Established Haines Survey Gravity bases by repeated loop observations opening and closing on Coober Pedy Isogal 9293.2018. Gravity control values were supplied by Geoscience Australia and are part of the Australian National Gravity Network.

Control information (**WGS84 heights have been derived using AusGeoid98**):

MABEL CREEK 2003 SURVEY / GRAVITY CONTROL

	WGS 84			AMG 84 Zone 53		AHD	Isogal 84
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mGal
Established Gravity and GPS Base Stations							
2003 1101	-28 36 09.4623	134 55 36.9785	156.487	492728.101	6835864.754	151.716	979174.084
2003 1102	-28 51 58.54576	135 17 19.40427	119.854	528029.144	6806625.445	114.960	979199.984
2003 1103	-28 54 10.38197	134 27 31.40843	222.614	447101.569	6802481.953	219.018	979180.265
2003 1104	-29 14 24.33570	134 39 08.98010	172.929	466102.775	6765192.140	169.452	979247.750
2003 1105	-29 15 48.67817	134 27 45.44829	149.358	447663.974	6762526.705	146.353	979259.180
2003 1106	-29 23 41.00920	135 03 00.52150	209.428	504736.791	6748108.489	205.728	979232.365
Gravity Control Isogal Stations							
9293.202	-29 02 30	134 43	254.000	N/A	N/A	N/A	979197.655
Survey Control Base Stations							
5939 1043	N/A	N/A	N/A	512706.192	6787239.417	126.340	N/A
5940 1001	N/A	N/A	N/A	527963.568	6805278.643	118.700	N/A
5740 1052	N/A	N/A	N/A	436294.000	6798116.000	194.807	N/A
5740 1086	N/A	N/A	N/A	442465.871	6796768.503	209.430	N/A
5839 1252	N/A	N/A	N/A	N/A	N/A	183.007	N/A
5739 1010	N/A	N/A	N/A	444331.125	6763981.721	N/A	N/A
5939 1054	N/A	N/A	N/A	N/A	N/A	195.044	N/A
5939 5067	N/A	N/A	N/A	N/A	N/A	194.985	N/A

Point Numbering and Marking

Areas 1, 2, 3, 4, 5, 6

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 lines are North-South and the 8 digits are constructed from the planned MGA coordinates for each gravity station using

Line No = (MGA E – 400000) / 10)

Stn No = (MGA N – 6800000) / 10

eg. Planned gravity station MGA coordinates

492000.000N

6834800.000E

Line No = 9200

Station No = 3480

i.e. Pt No = 92003480

Station numbers have been partly expanded in the processed data to show metres, that is, the Line Numbers = MGA E– 400000 and Station Numbers = MGA N – 6800000.

The gravity stations have not been marked in the field.

Areas WE

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 lines are east-west and the 8 digits are constructed from the planned MGA coordinates for each gravity station using

$$\text{Line No} = (\text{MGA N} - 6800000) / 10$$

$$\text{Stn No} = (\text{AMG E} - 500000) / 10$$

eg. Planned gravity station AMG coordinates

6815800.000N

526700.000E

$$\text{Line No} = 1580$$

$$\text{Station No} = 2670$$

$$\text{i.e. Pt No} = 15802670$$

Station numbers have been partly expanded in the processed data to show metres, that is, the Line Numbers = AMG N – 6800000 and Station Numbers = AMG E – 500000.

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.

$$\text{Drift} = [(t_1 - t_n) ((b_2 - b_1) / (t_2 - t_1))]$$

- 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

Obs mgal

This is the observed gravity value in milligals.

$$\text{Obs} = b_g + (r_n - \text{drift}) - b_1$$

- b_g = base stn gravity value (Isogal84)
- r_n = meter reading at each station as shown in the 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*.

$$\text{Anom} = \text{Obs} - g_{th}$$

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

$$\text{Freeair corrn} = 0.3086 H$$

H = height above sea level (AHD height)

Bouguer corrn

$$\text{Bouguer corrn} = -0.04191 \rho H$$

ρ = density (2.67 g/cc used for this survey)

H = height above sea level (AHD height)

Bouguer Anom

$$\text{Bouguer Anom} = \text{Anom} + \text{Freeair corrn} + \text{Bouguer corrn}$$

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. The results are also supplied in digital form on floppy disk with the following of files being supplied.

ALLCOR.XYZ ALLGEO.XYZ ALLCSV.CSV

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 OBS.

ALLCOR.XYZ format

This is a *GEOSOF*T compatible XYZ (space delimited columns) file. The data is sorted by Day then Line and Stn number. The column order is as follows:

AMG E	AMG N	Line	Stn	drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
					meter	mgal		corr	corr	anom	(AHD)
										(2.67)	

ALLGEO.XYZ format

This is a *GEOSOF*T format XYZ (space delimited columns) file. The data is sorted into Line and Stn number suitable for profiling. The column order is as follows:

Line	Stn	AMG E	AMG N	drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
					meter	mgal		corr	corr	anom	(AHD)
										(2.67)	

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, AMG East, AMG 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, freeair 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).

*.GPS

These are the GPS solution summaries for all post processed Fast Static baselines with a separate file for each day's solutions. 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**MABEL CREEK 2003 Gravity Survey Production Log**

Date	GPS Day	Observed	Repeats	Comments
26-Mar-03	D85	0	0	Mobilised to Coober Pedy
27-Mar-03	D86	93	0	Commenced Mabel Creek (Area 1) Gravity Survey
28-Mar-03	D87	86	2	Continued Mabel Creek (Area 1) Gravity Survey
29-Mar-03	D88	75	0	Continued Mabel Creek (Area 1) Gravity Survey
30-Mar-03	D89	80	1	Continued Mabel Creek (Area 1) Gravity Survey
31-Mar-03	D90	64	5	Continued Mabel Creek (Area 1) Gravity Survey
01-Apr-03	D91	51	1	Completed Mabel Creek (Area 1) Gravity Survey
02-Apr-03	D92	45	0	Commenced and Completed Mabel Creek (Area 4) Gravity Survey
03-Apr-03	D93	83	0	Commenced Mabel Creek (Area 5 and Area 3) Gravity Survey
04-Apr-03	D94	46	2	Completed Mabel Creek (Area 5 and Area 3) Gravity Survey
05-Apr-03	D95	88	0	Commenced and Completed Mabel Creek (Area 6) Gravity Survey
06-Apr-03	D96	37	0	Commenced Mabel Creek (Area 2 and Area EW) Gravity Survey
07-Apr-03	D97	56	1	Commenced and Completed Mabel Creek (Area 2 & Area EW) Gravity Survey
08-Apr-03	D98	0	0	Demobilised from Coober Pedy
	Total	891	12	

Repeat Observation Results

AREA 1

Pt #	Day	E	N	H	G	Bouguer
93603720	D 86	493,620.215	6,837,201.090	157.533	979,171.469	-12.883
93603720	D 87	493,620.141 +0.074	6,837,201.035 +0.055	157.543 -0.010	979,171.515 -0.046	-12.835 -0.048
94403920	D 86	494,412.293	6,839,202.112	161.045	979,172.463	-9.828
94403920	D 87	494,412.309 -0.016	6,839,202.191 -0.079	161.051 -0.006	979,172.488 -0.025	-9.802 -0.026
803560	D 88	500,796.979	6,835,596.150	145.215	979,174.987	-12.888
803560	D 89	500,796.975 +0.004	6,835,596.675 -0.525	145.184 +0.031	979,175.018 -0.031	-12.863 -0.025
803560	D 90	500,797.041 -0.062	6,835,596.537 -0.387	145.169 +0.046	979,175.026 -0.039	-12.858 -0.030
2403560	D 89	502,400.887	6,835,577.393	138.438	979,172.645	-16.576
2403560	D 90	502,400.995 -0.108	6,835,577.494 -0.101	138.402 +0.036	979,172.675 -0.030	-16.553 -0.023
2404320	D 89	502,389.548	6,843,207.439	178.370	979,165.552	-10.591
2404320	D 90	502,389.586 -0.038	6,843,207.450 -0.011	178.284 +0.086	979,165.532 +0.020	-10.628 +0.037
2404360	D 89	502,395.670	6,843,601.764	172.485	979,166.271	-10.759
2404360	D 90	502,394.791 +0.879	6,843,599.879 +1.885	172.108 +0.377	979,166.353 -0.082	-10.753 -0.006
4003560	D 89	504,006.994	6,835,599.300	141.851	979,172.254	-16.281
4003560	D 90	504,007.059 -0.065	6,835,599.445 -0.145	141.861 -0.010	979,172.282 -0.028	-16.250 -0.031
5603480	D 90	505,595.433	6,834,795.412	144.189	979,166.548	-22.077
5603480	D 91	505,595.535 -0.102	6,834,795.552 -0.140	144.233 -0.044	979,166.584 -0.036	-22.032 -0.045

AREA 2

Pt #	Day	E	N	H	G	Bouguer
31600800	D 96	531,605.931	6,807,999.864	101.026	979,197.283	-18.215
31600800	D 97	531,606.029 -0.098	6,808,000.153 -0.289	101.062 -0.036	979,197.289 -0.006	-18.202 -0.013

AREA 5

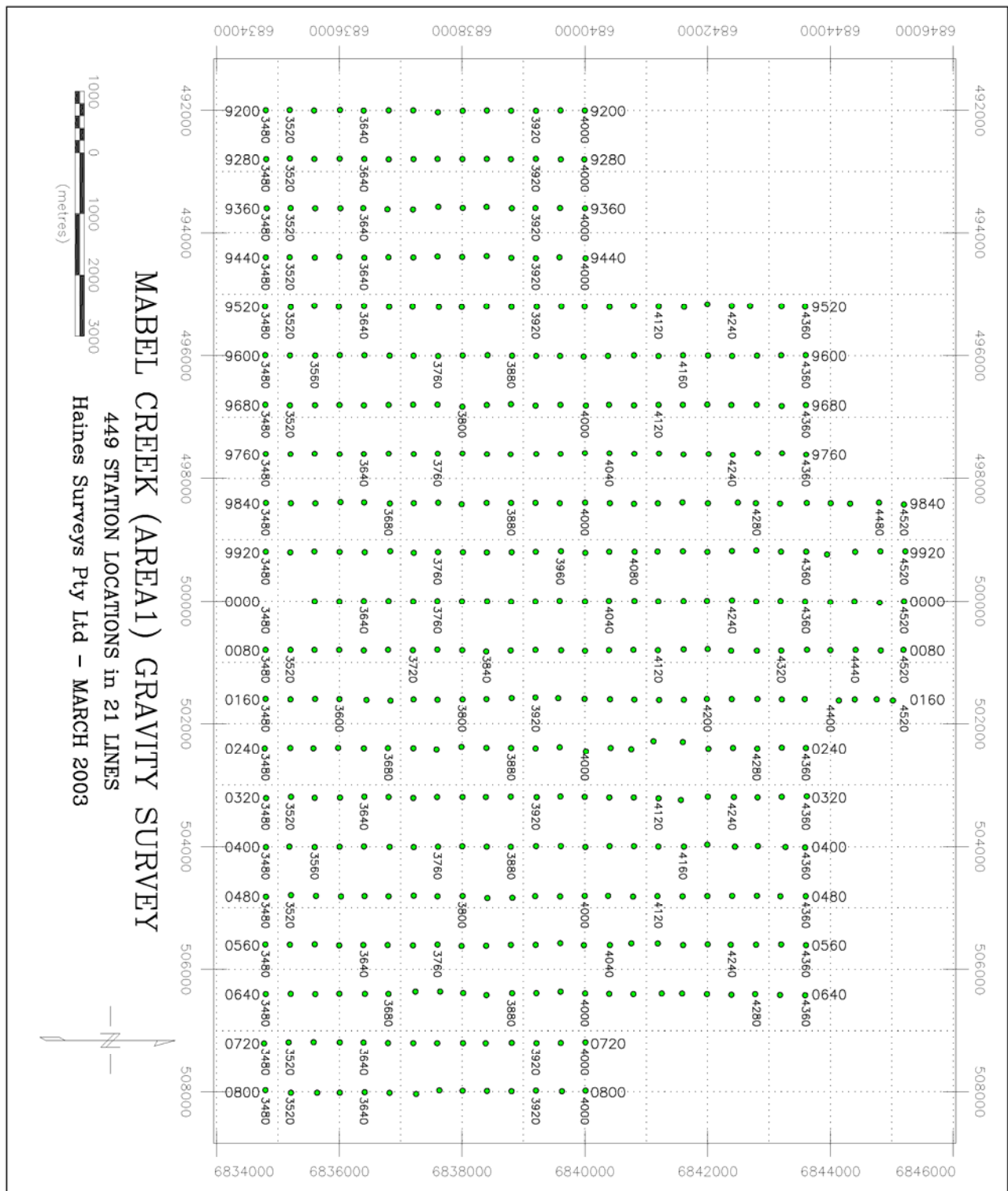
Pt #	Day	E	N	H	G	Bouguer
48706380	D 93	448,729.615	6,763,816.967	147.034	979,253.658	+16.686
48706380	D 94	448,729.538 +0.077	6,763,817.038 -0.071	147.020 +0.014	979,253.672 -0.014	+16.697 -0.011
50306220	D 93	450,316.785	6,762,201.754	147.444	979,250.288	+12.269
50306220	D 94	450,316.592 +0.193	6,762,201.621 +0.133	147.442 +0.002	979,250.317 -0.029	+12.297 -0.028

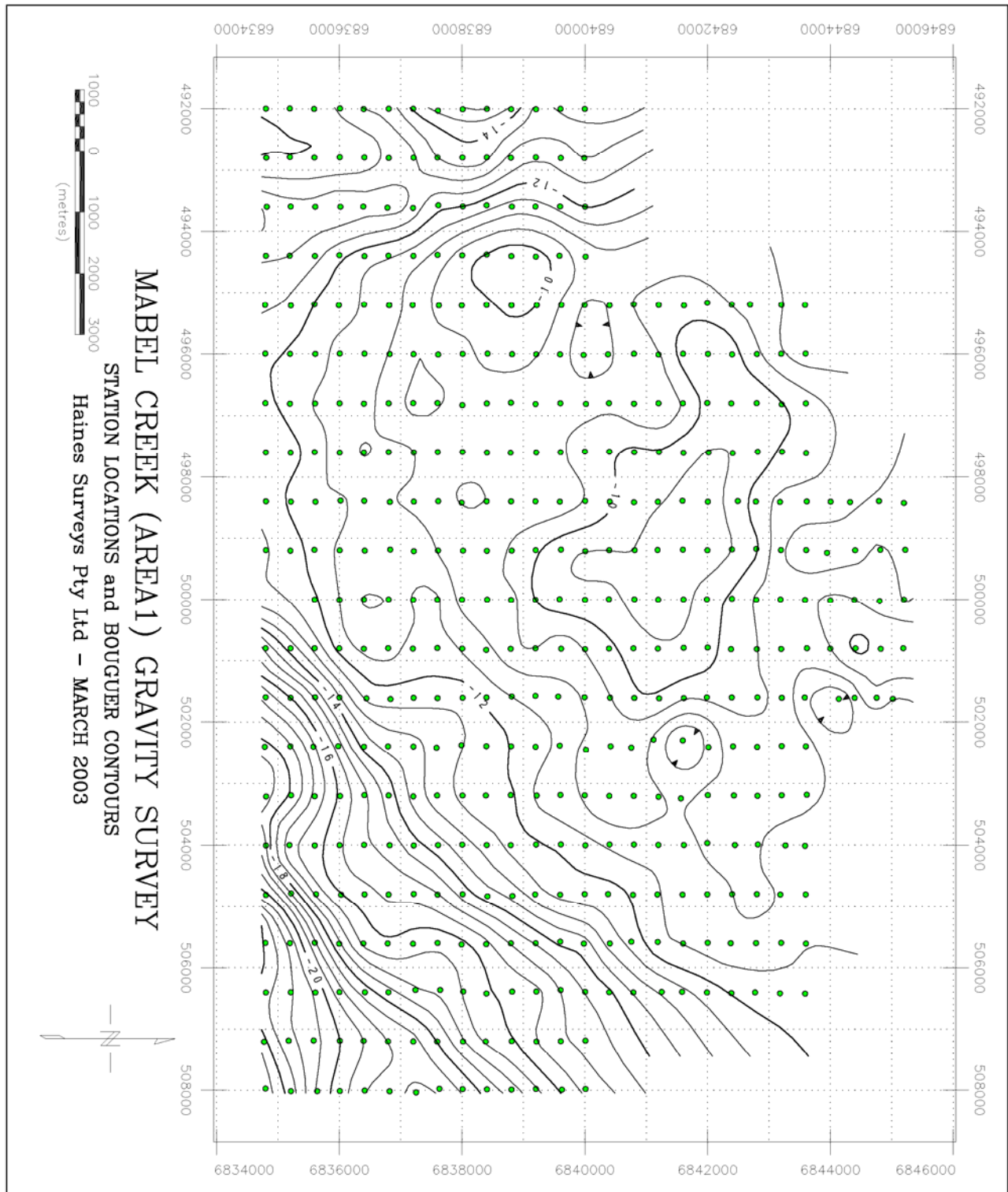
Plots

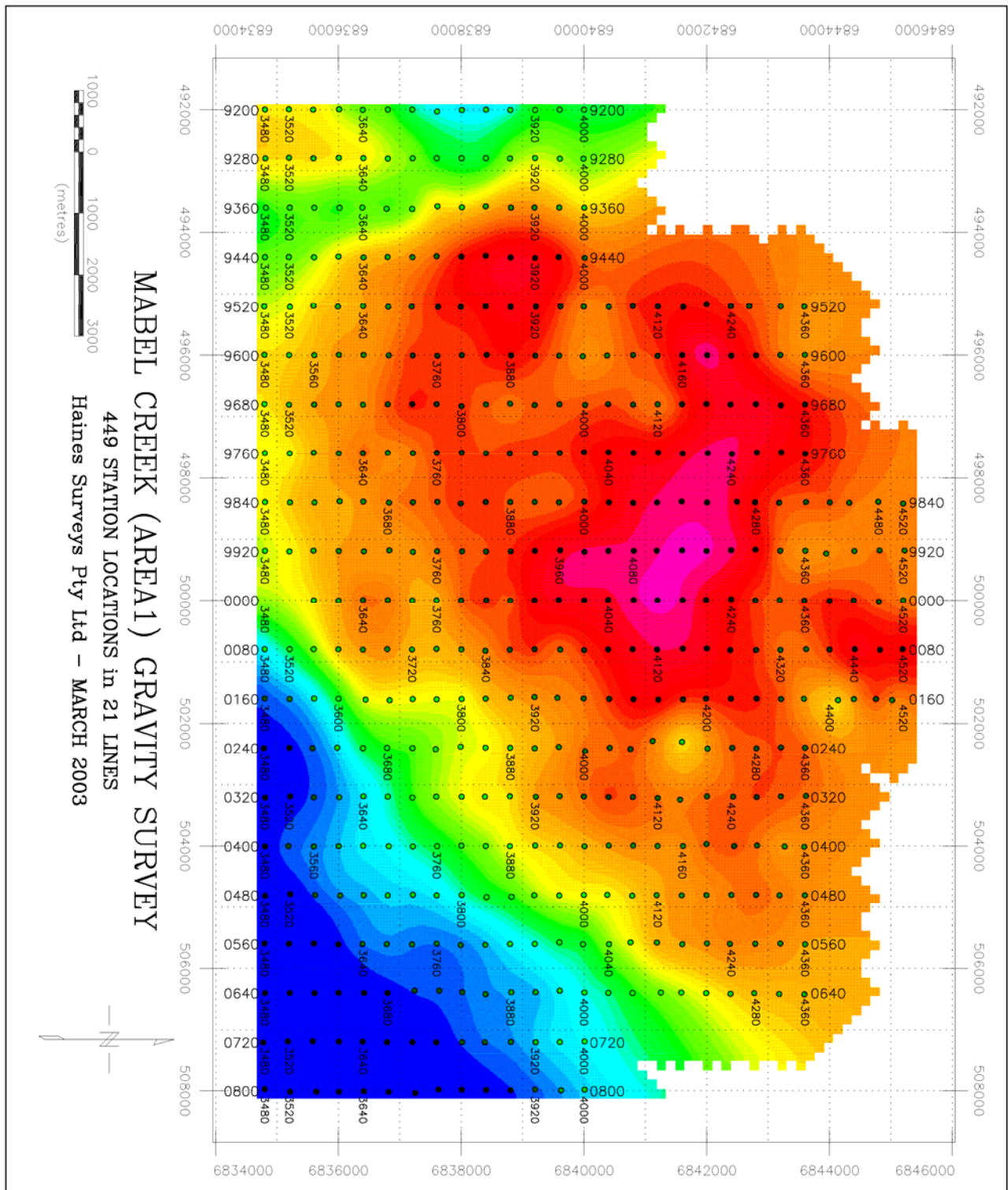
Plots- Mabel Creek (area 1)	
Station Locations	14
Stations and Bouguer Anomaly Contours	15
Bouguer Anomaly Contours and Zoned Image	16
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Plots- Mabel Creek (area 5)	
Station Locations	61
Stations and Bouguer Anomaly Contours	62
Bouguer Anomaly Contours and Zoned Image	63
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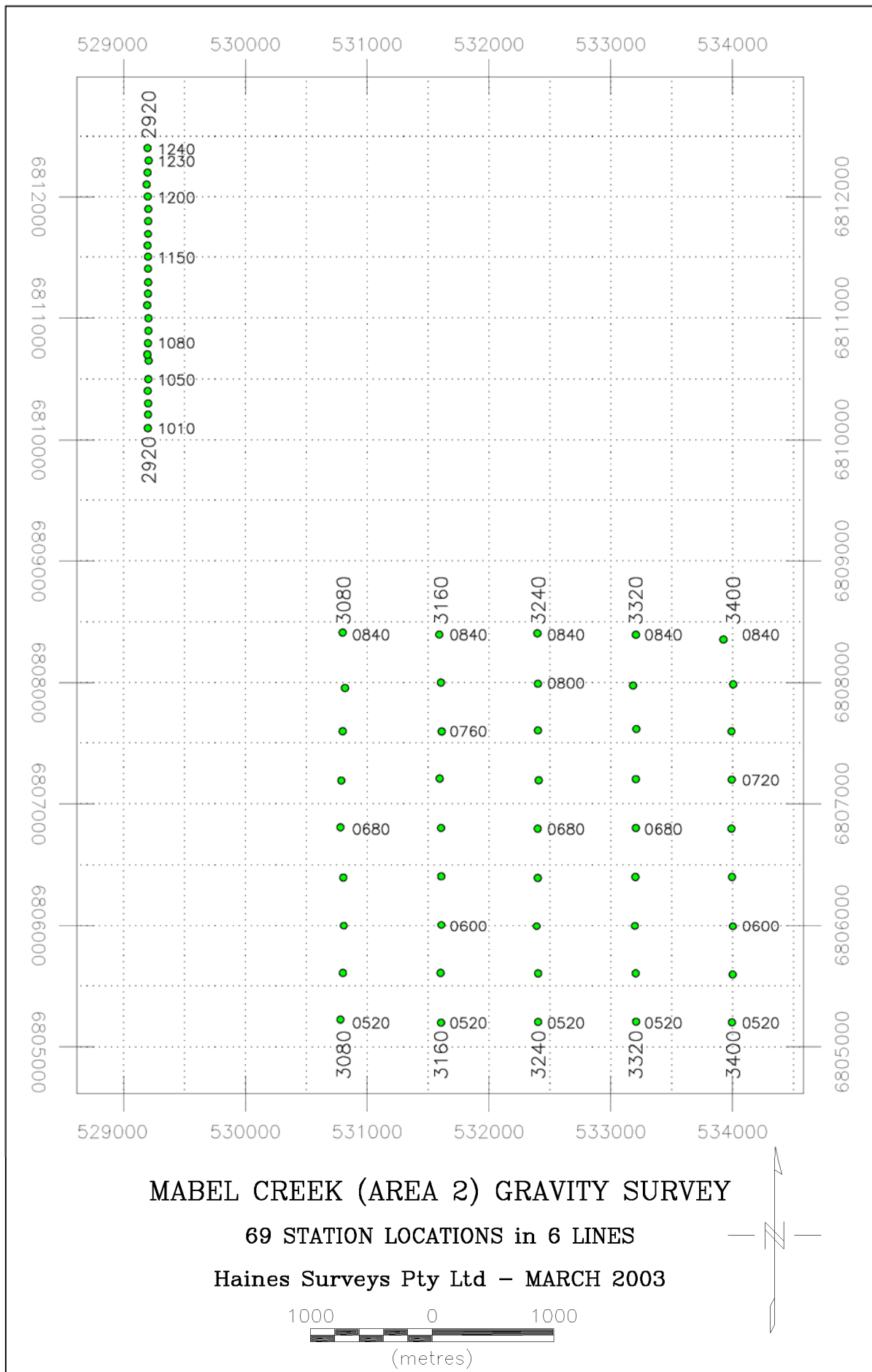
Processed Results

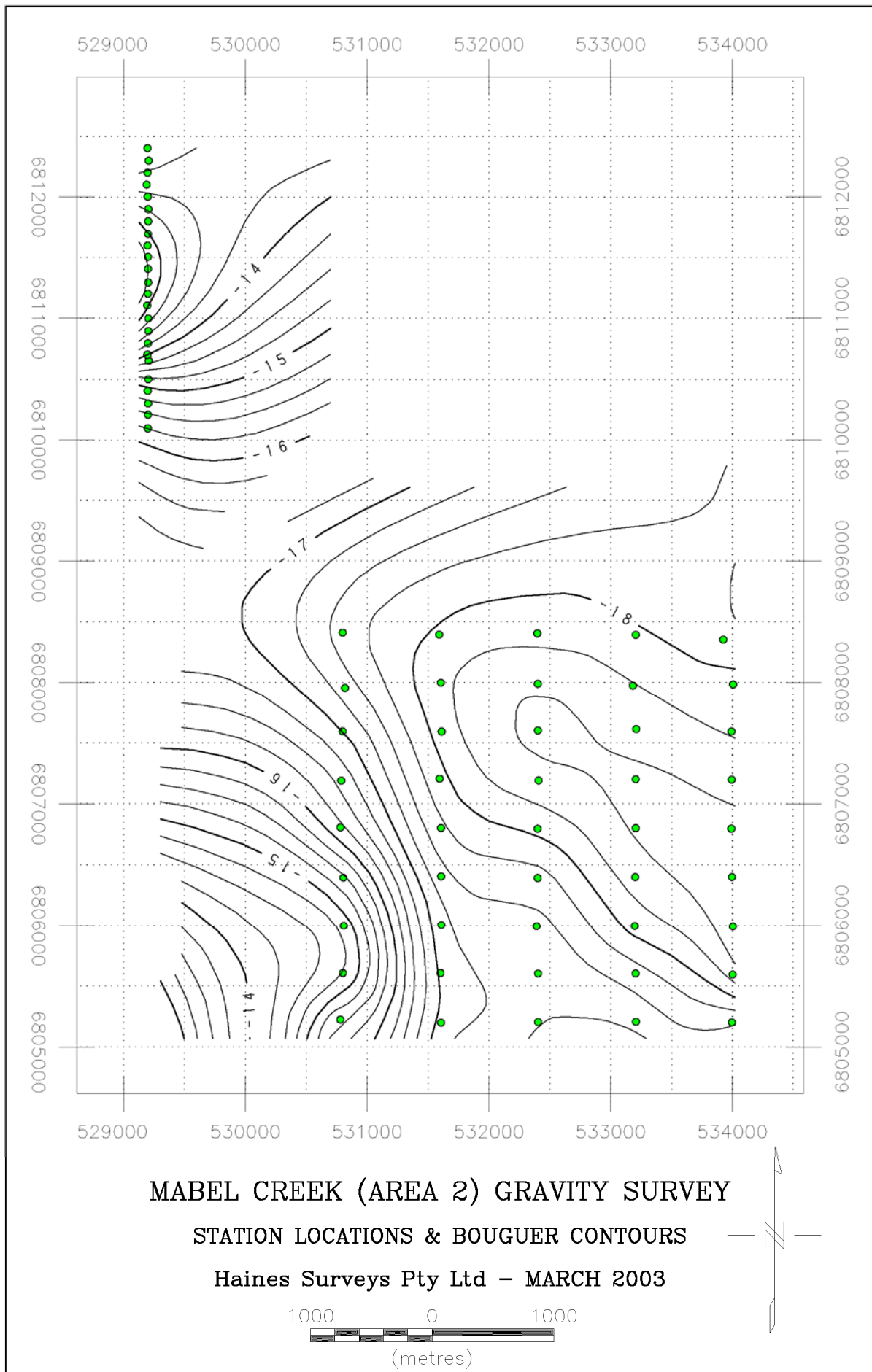
Area 1	66
Area 2	71
Area 3	72
Area 4	73
Area 5	73
Area 6	75
Area we	76

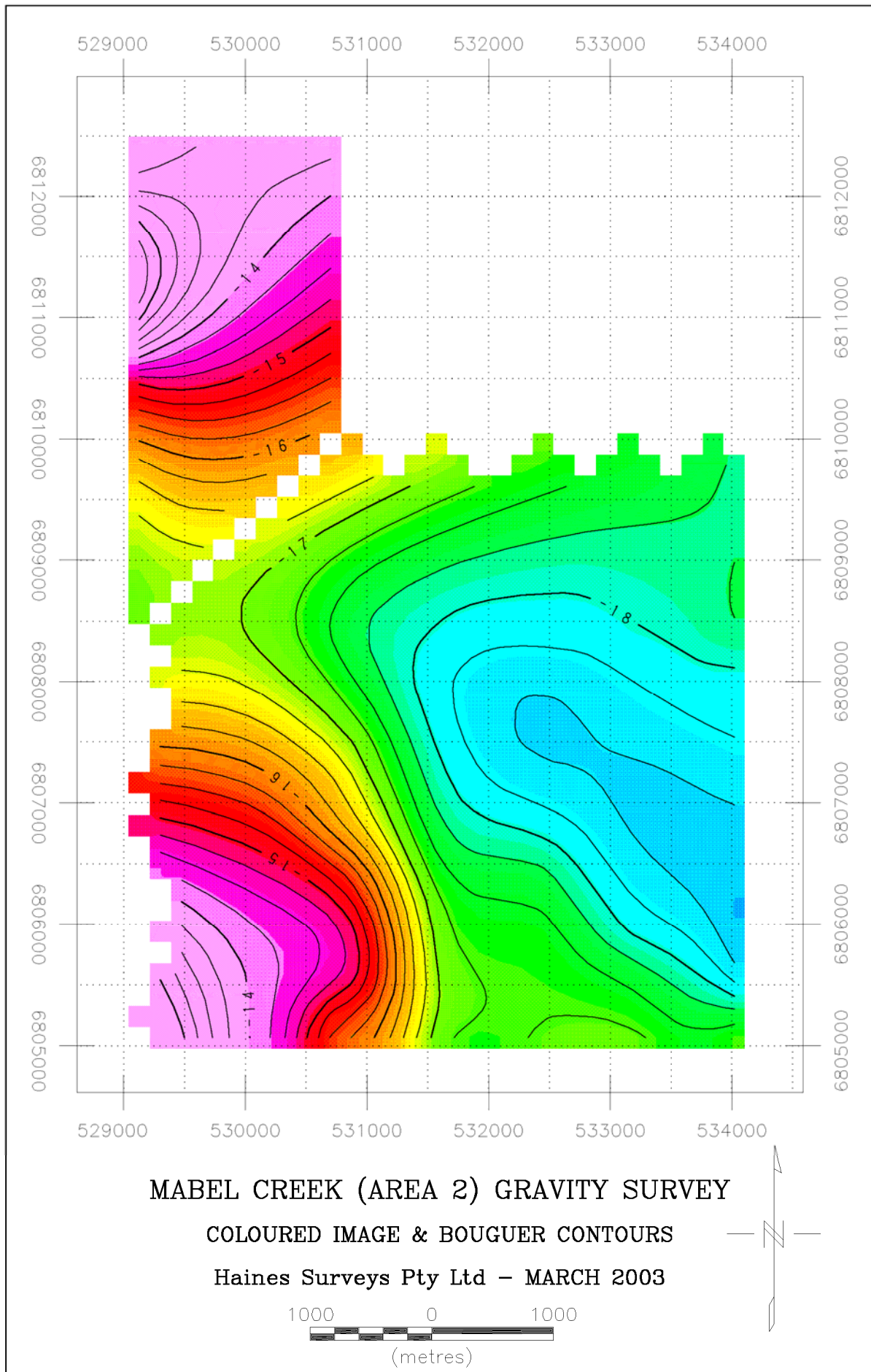


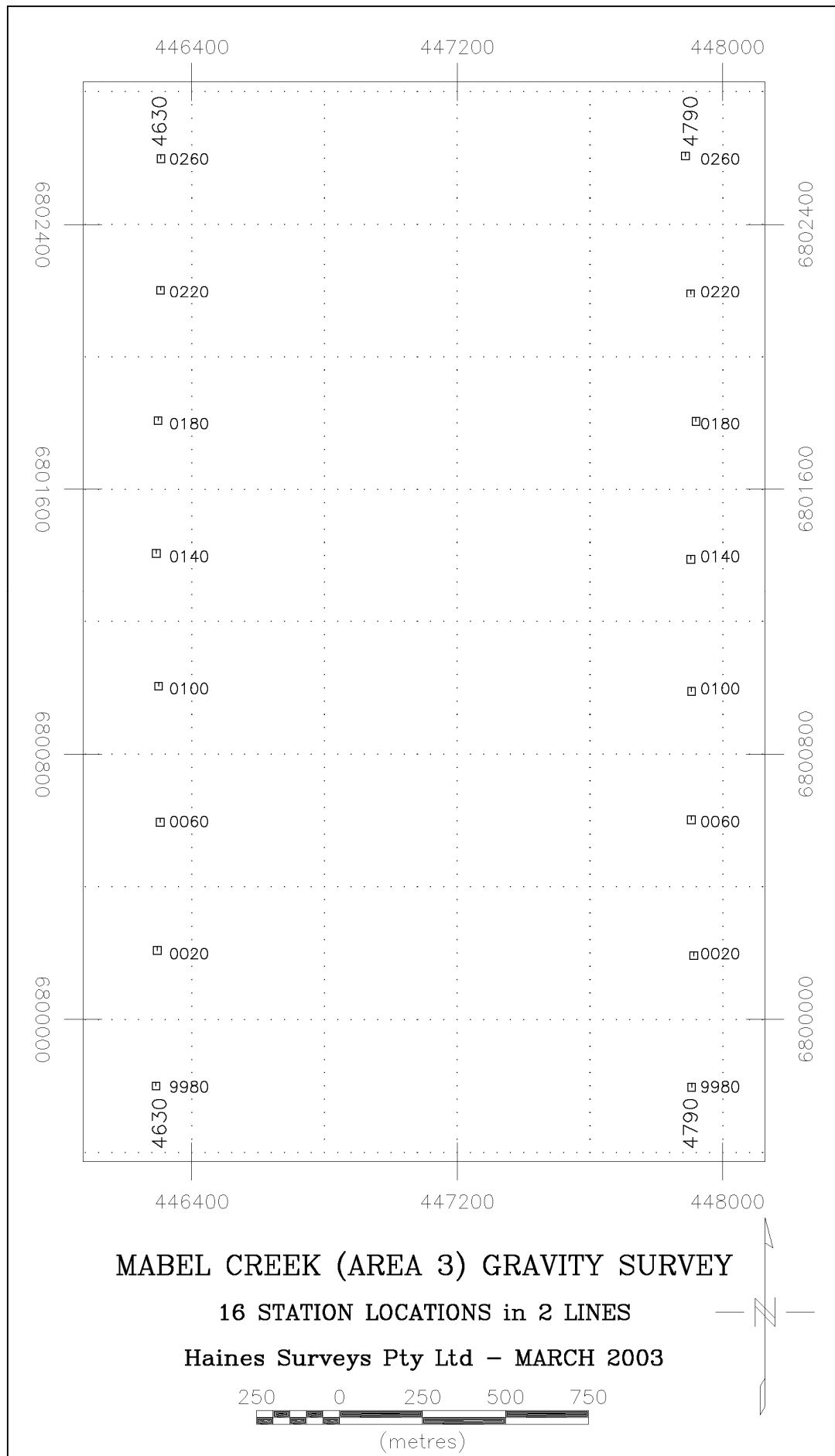


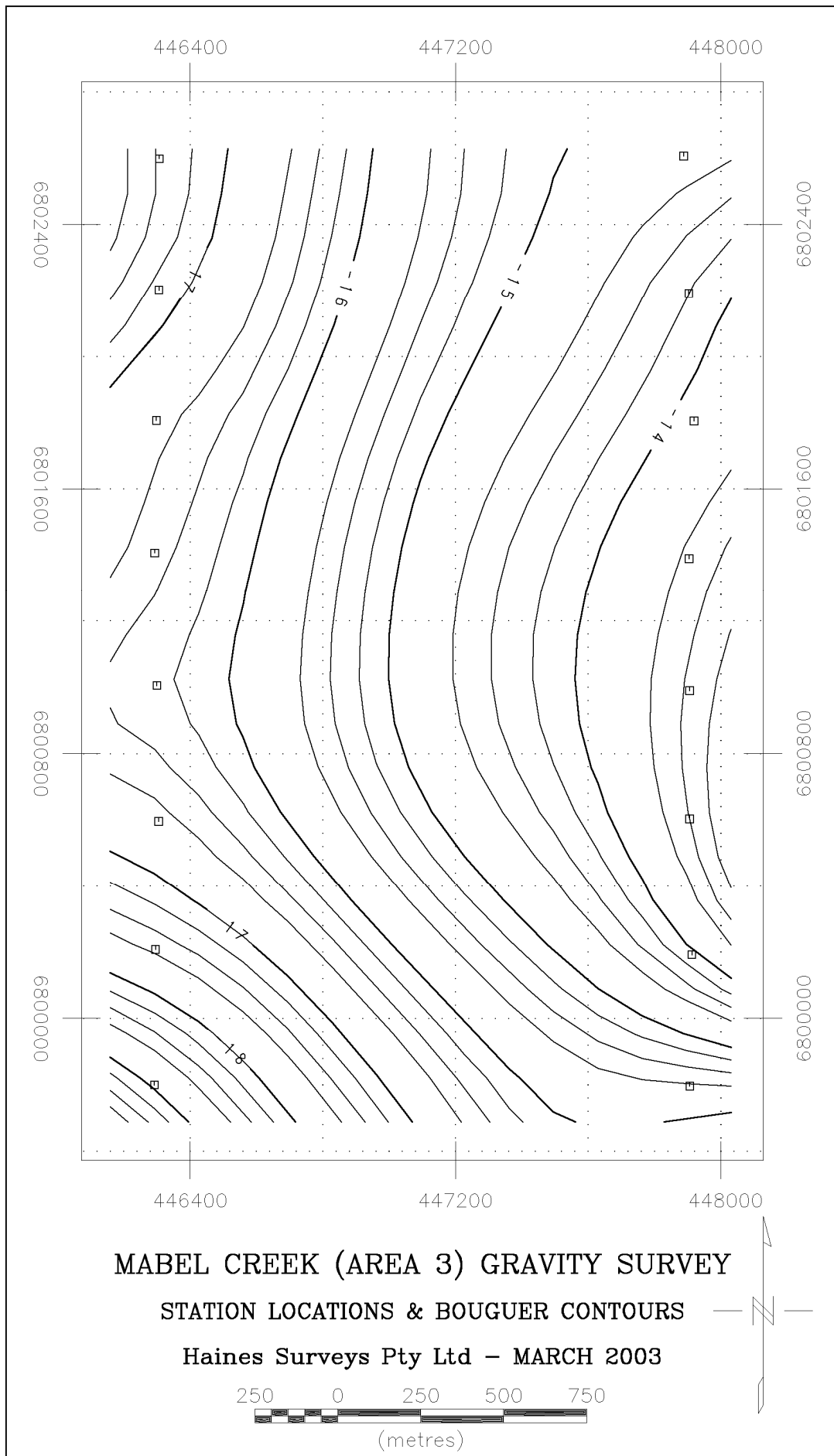


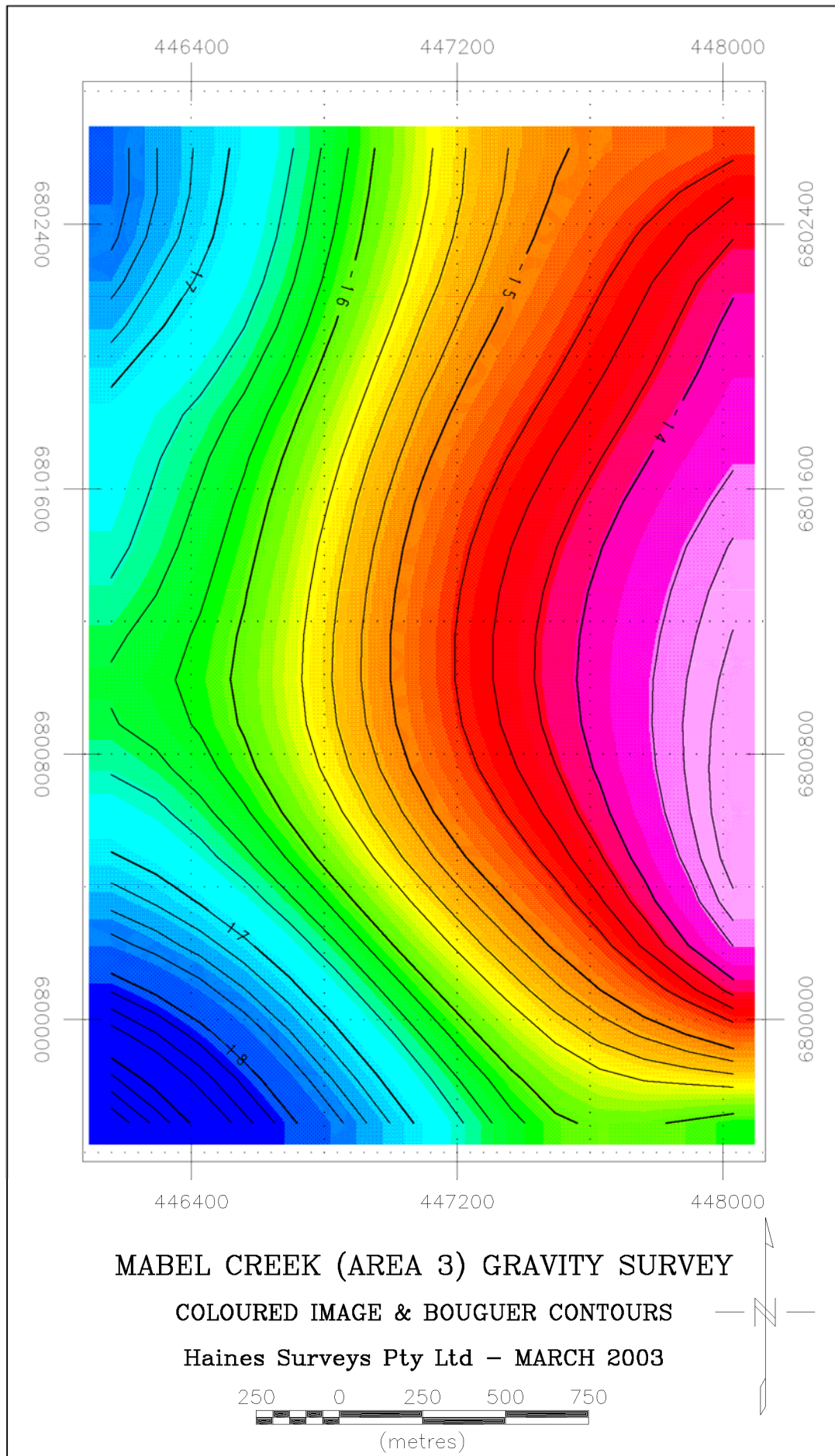


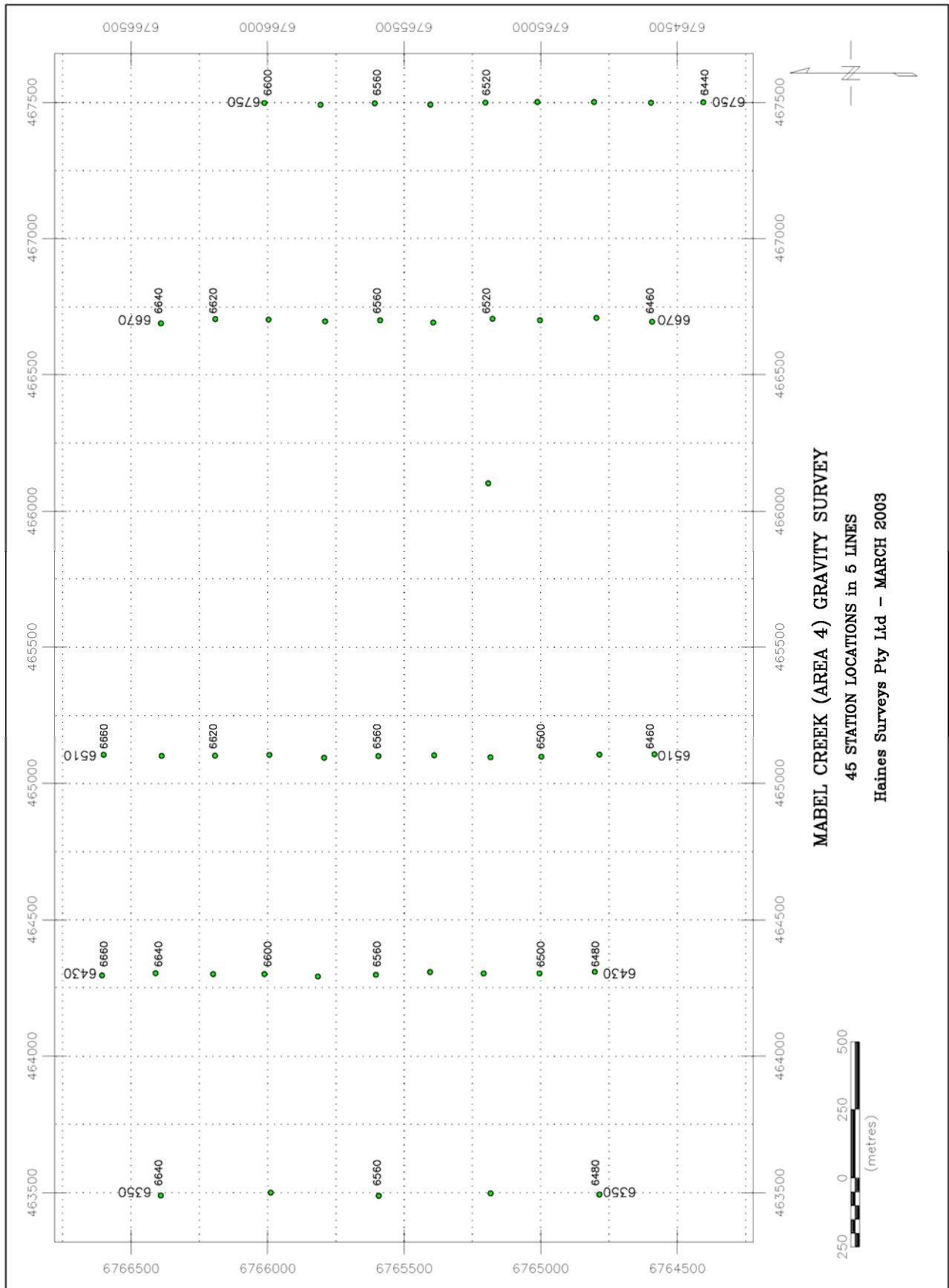


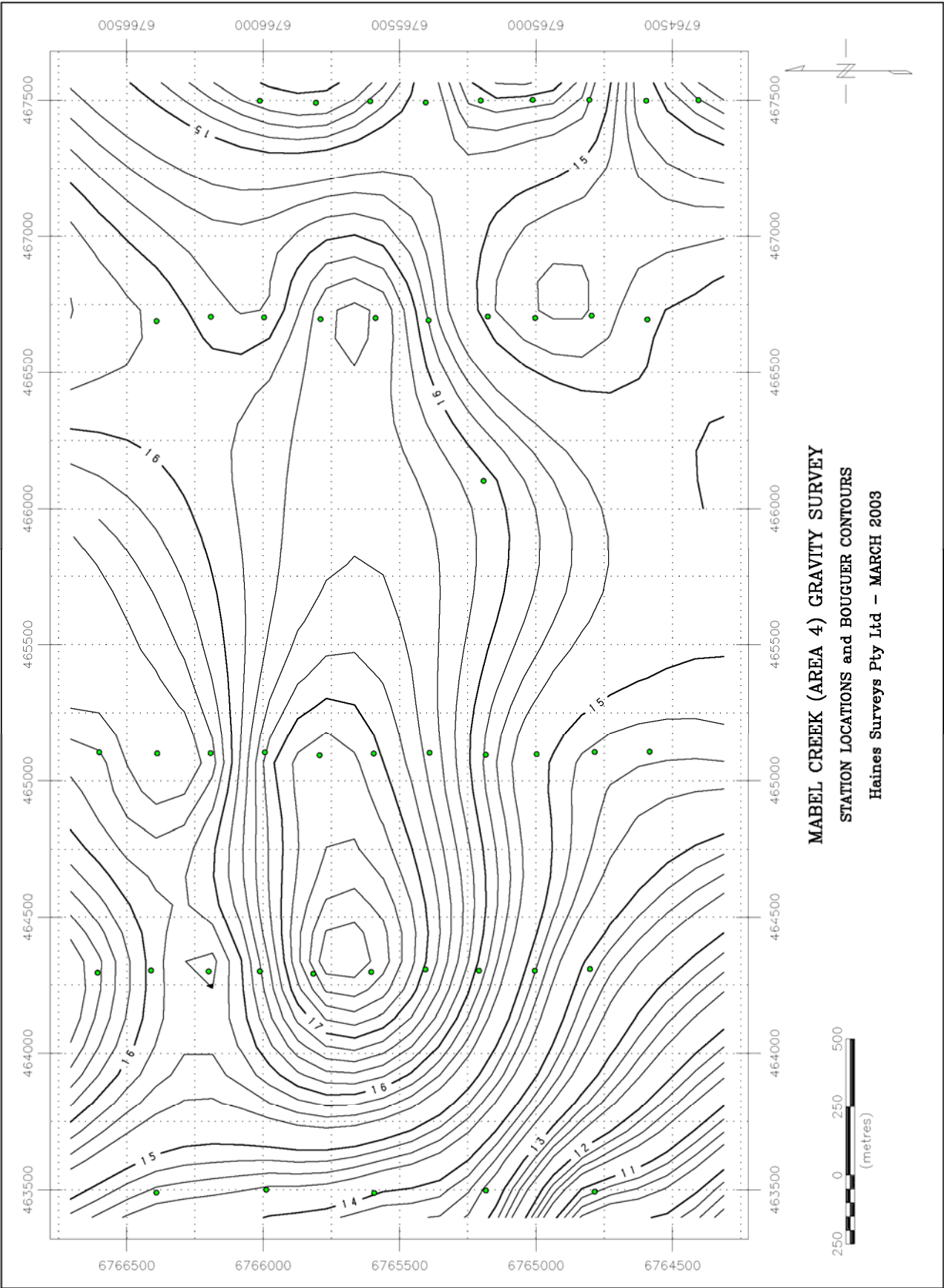


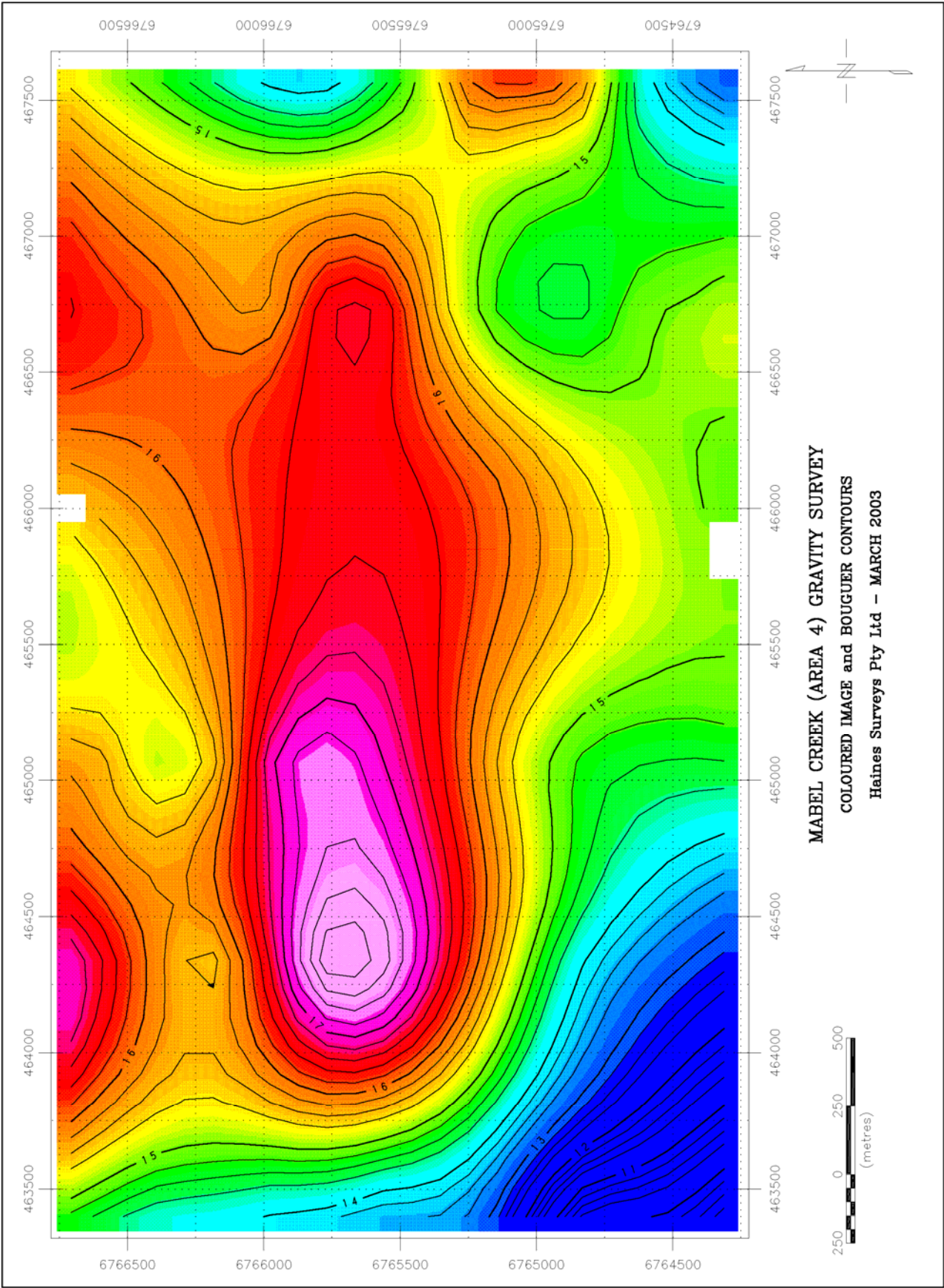


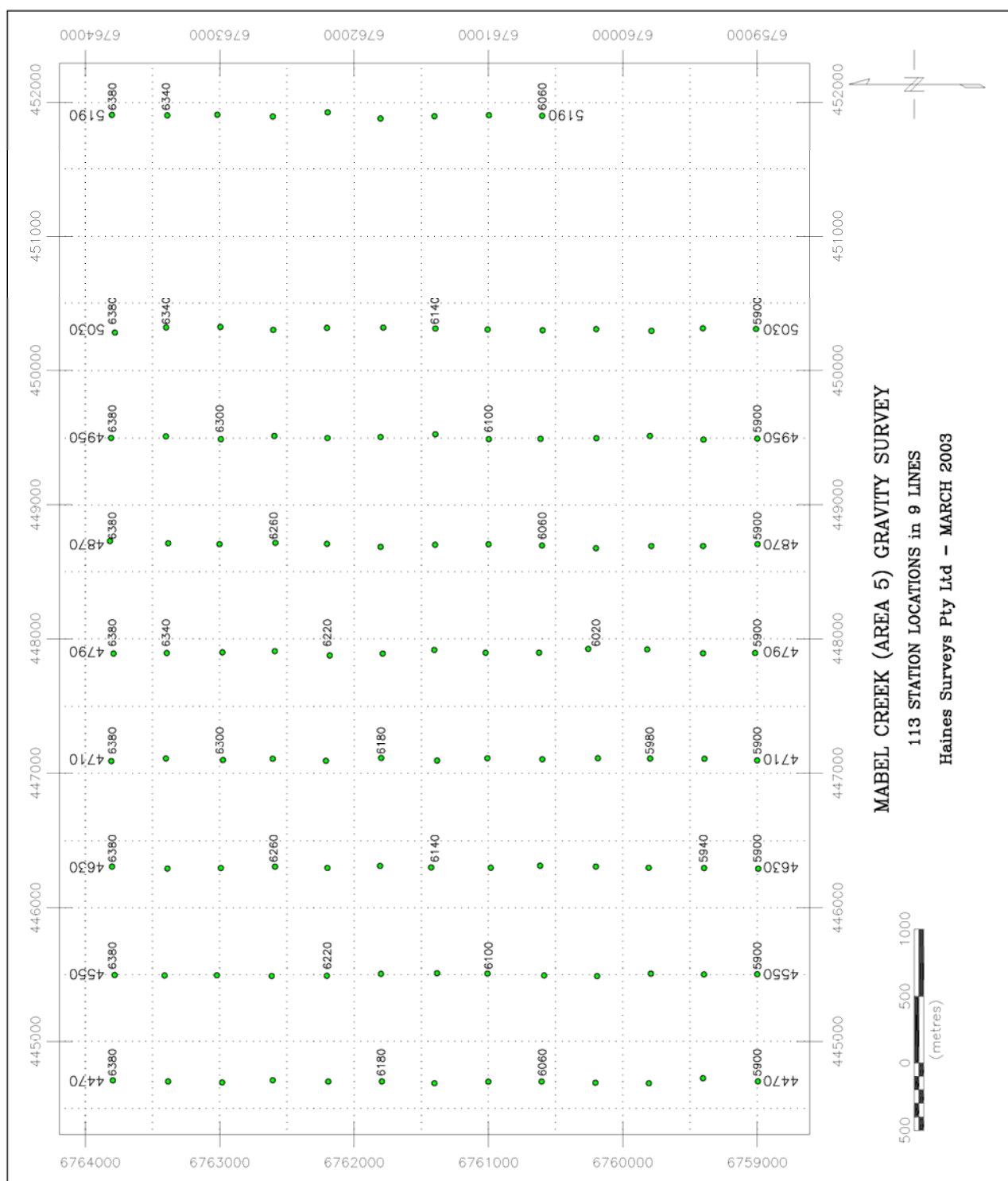


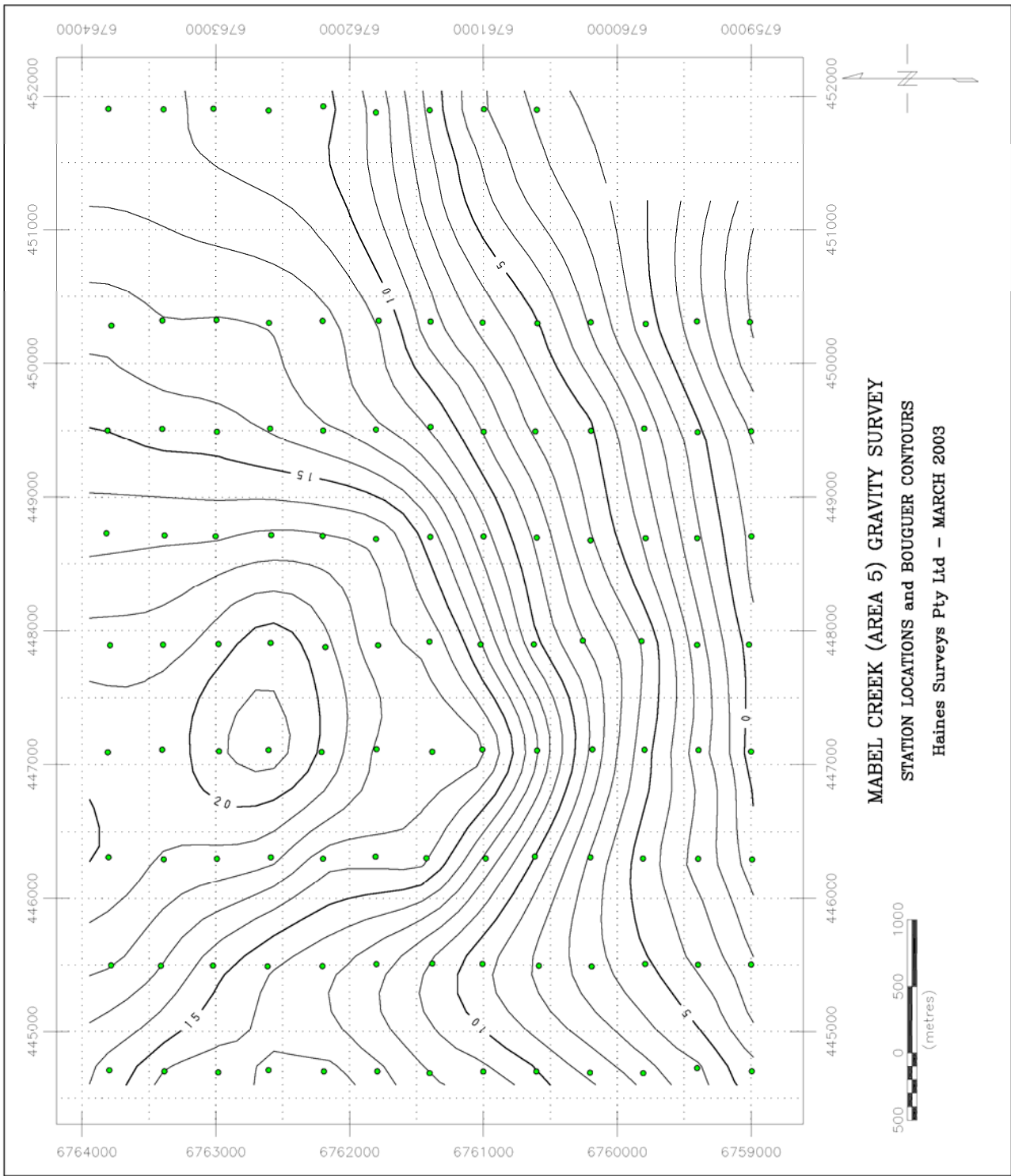


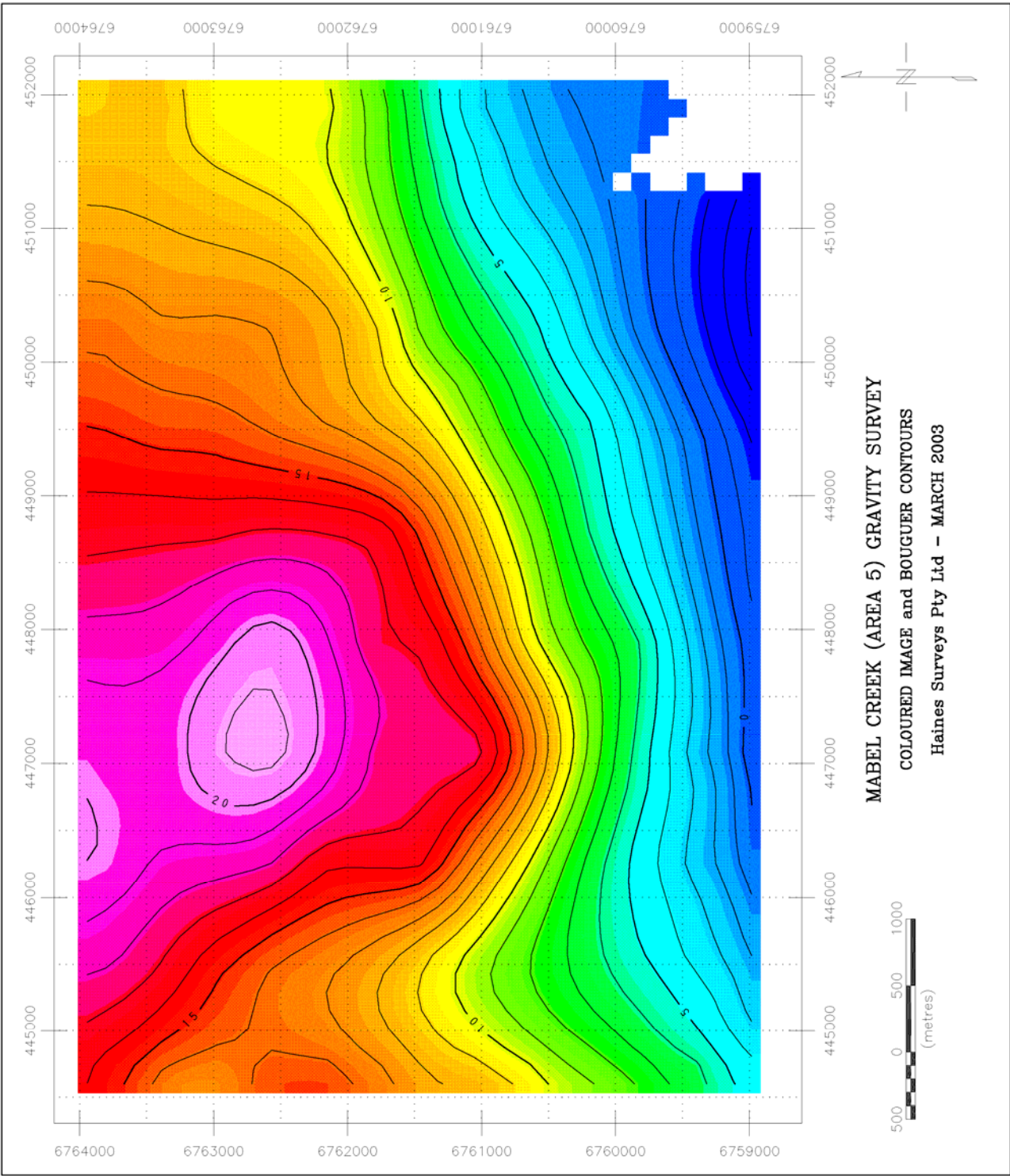


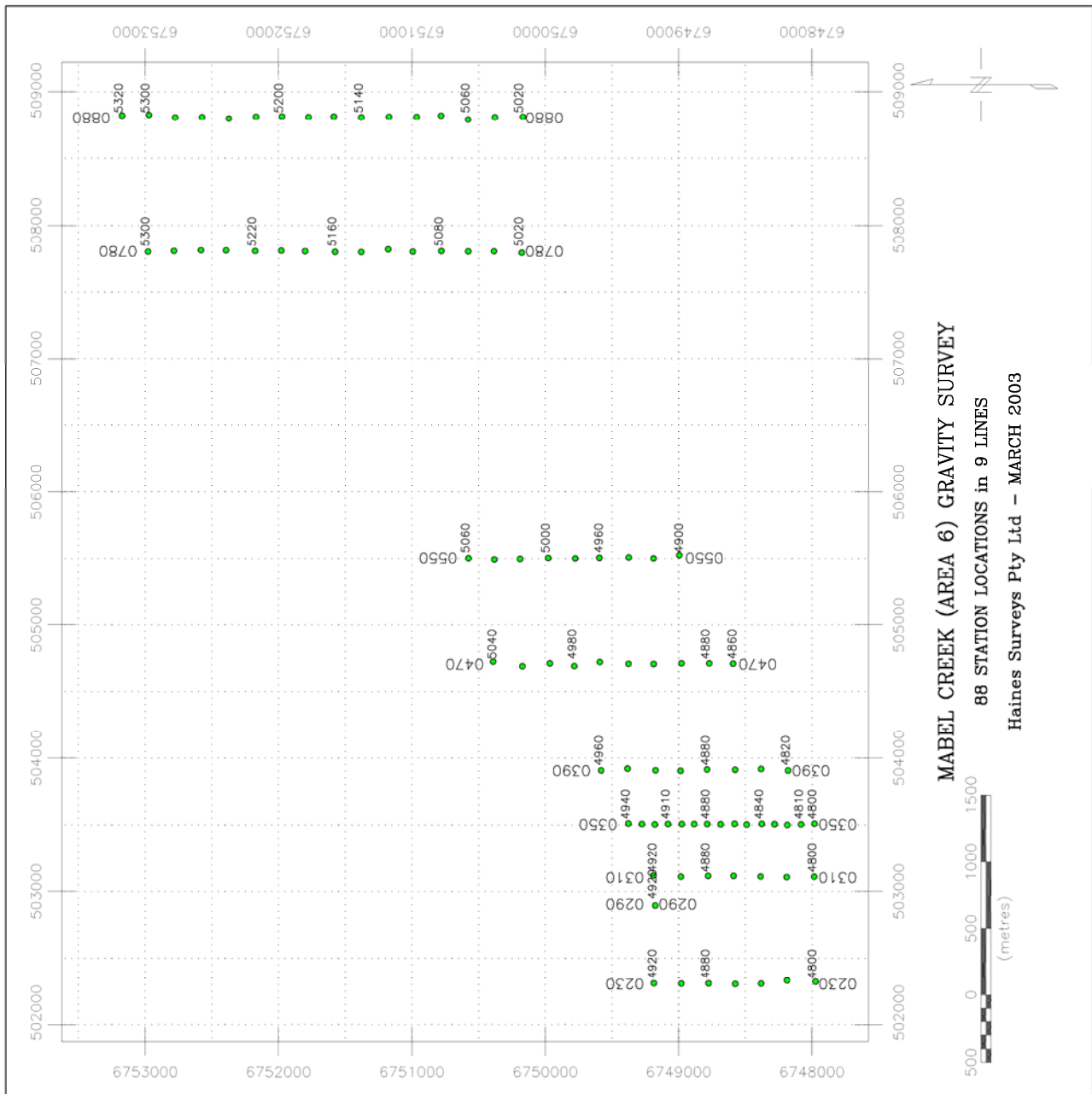


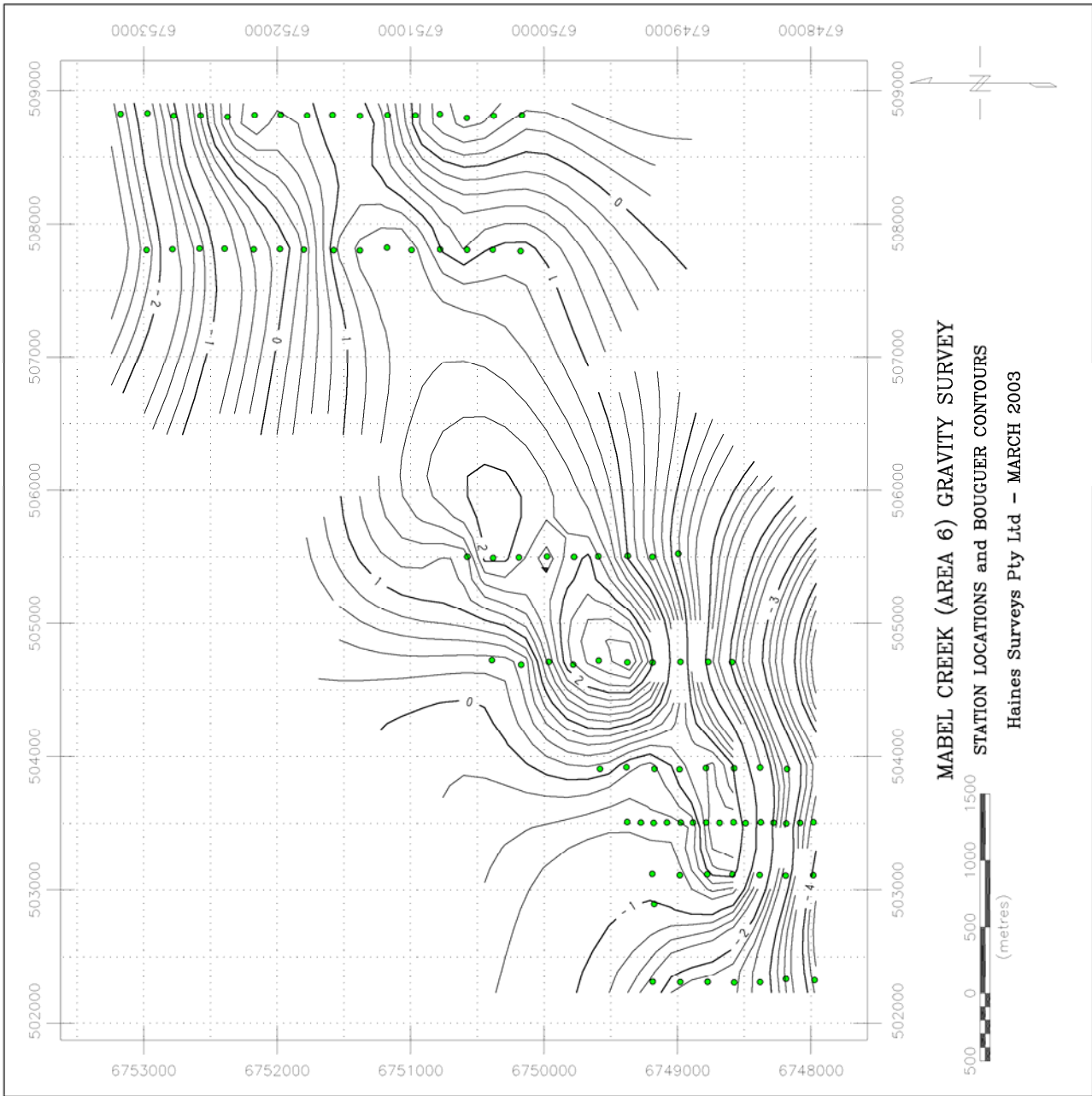


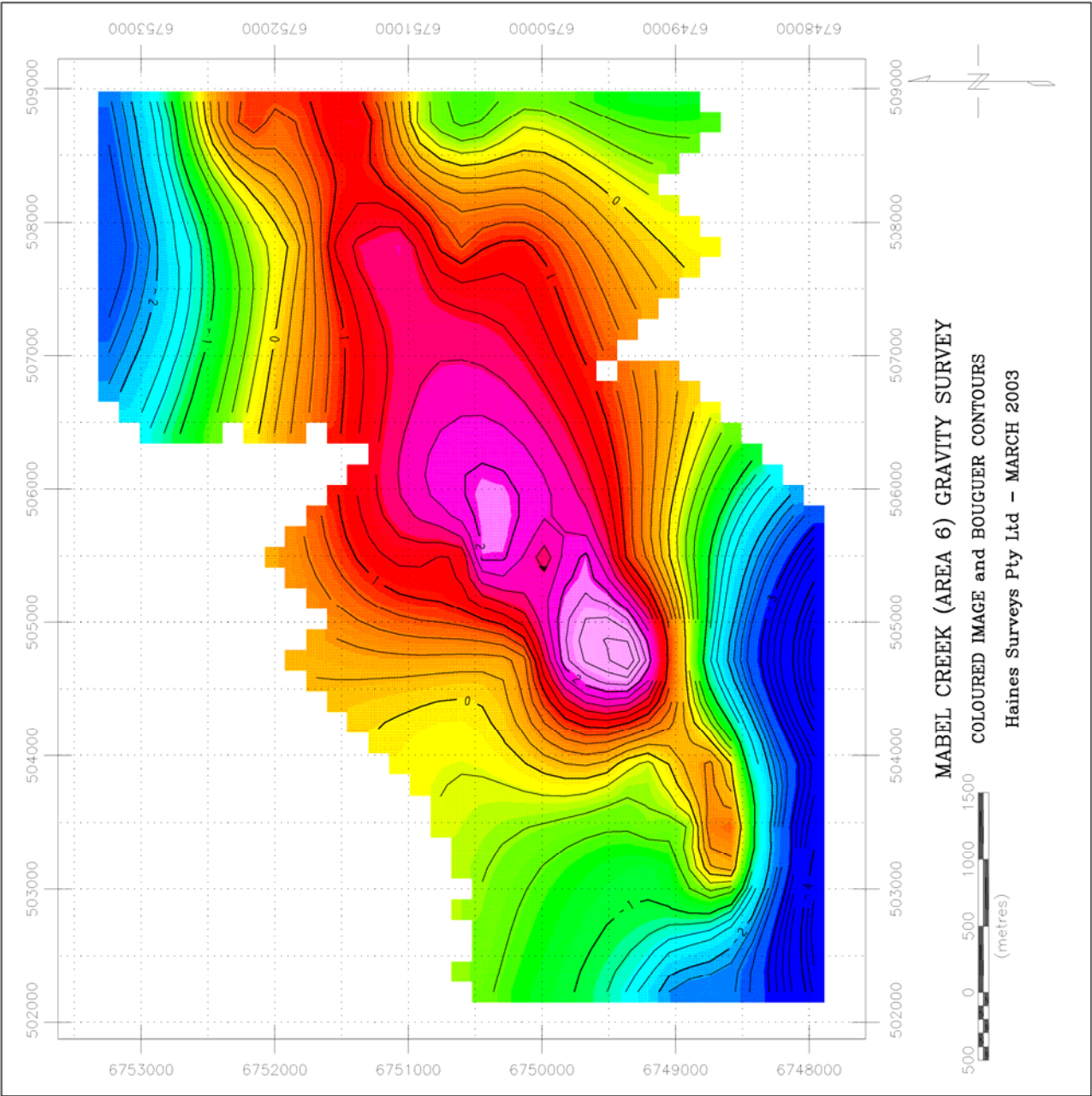


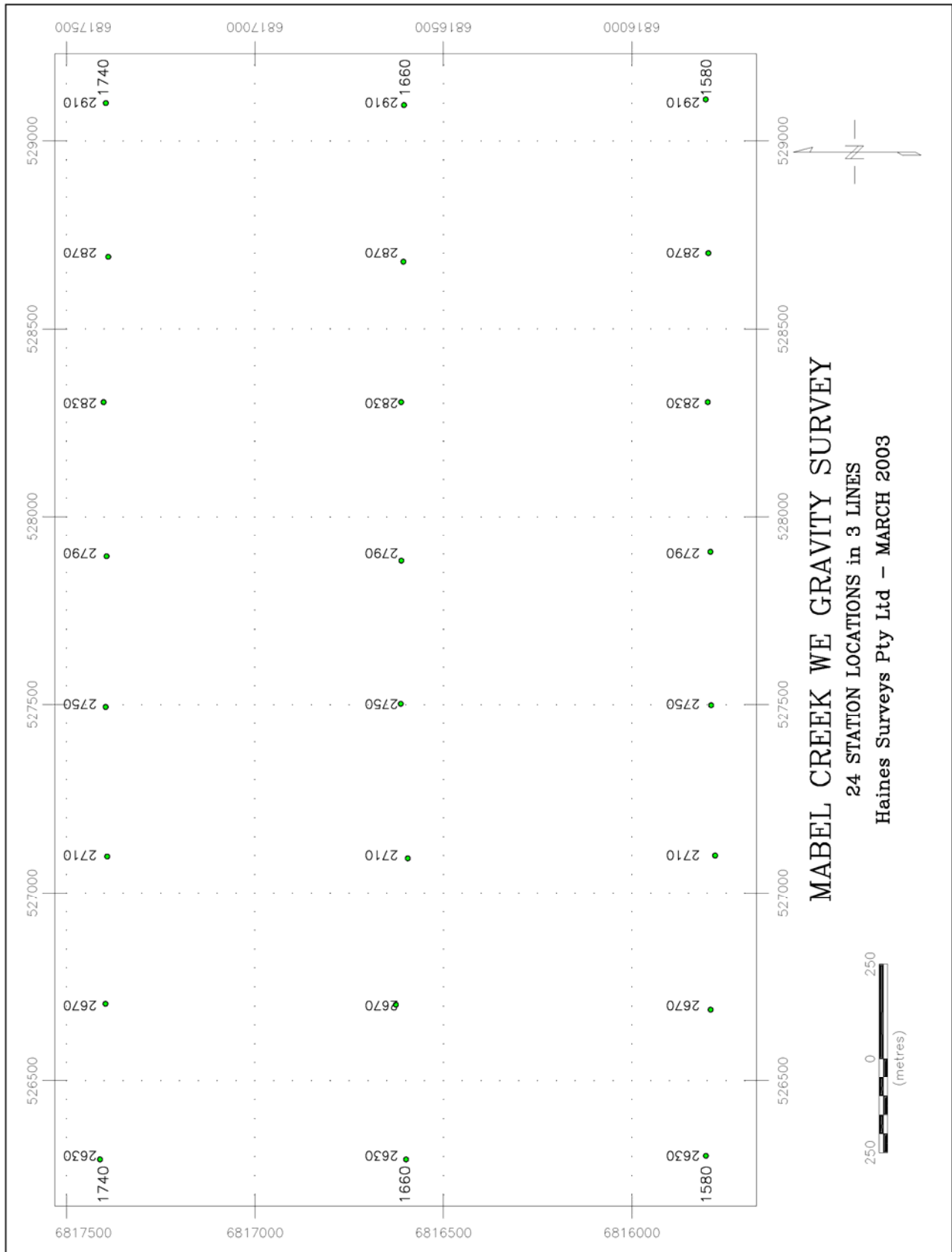


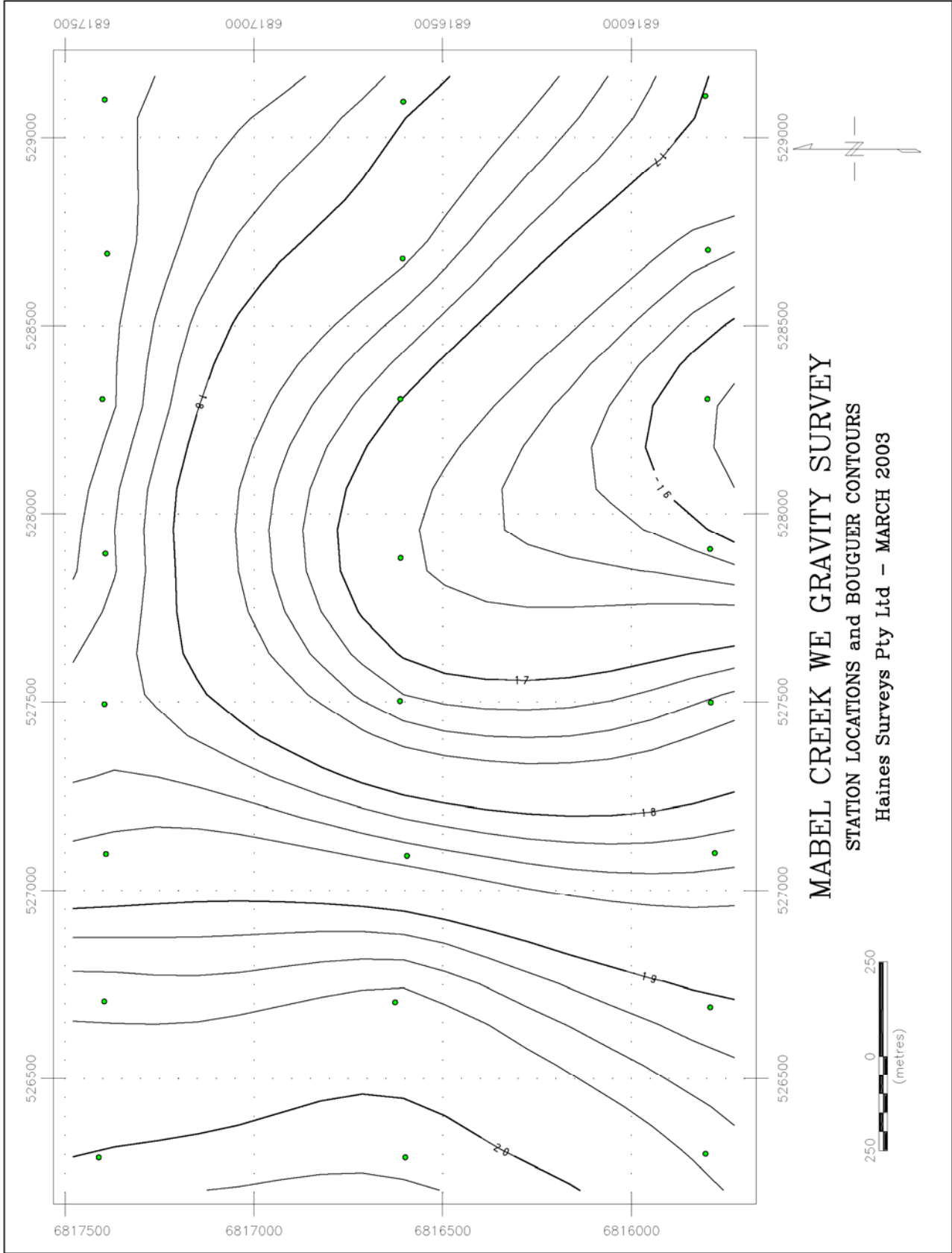


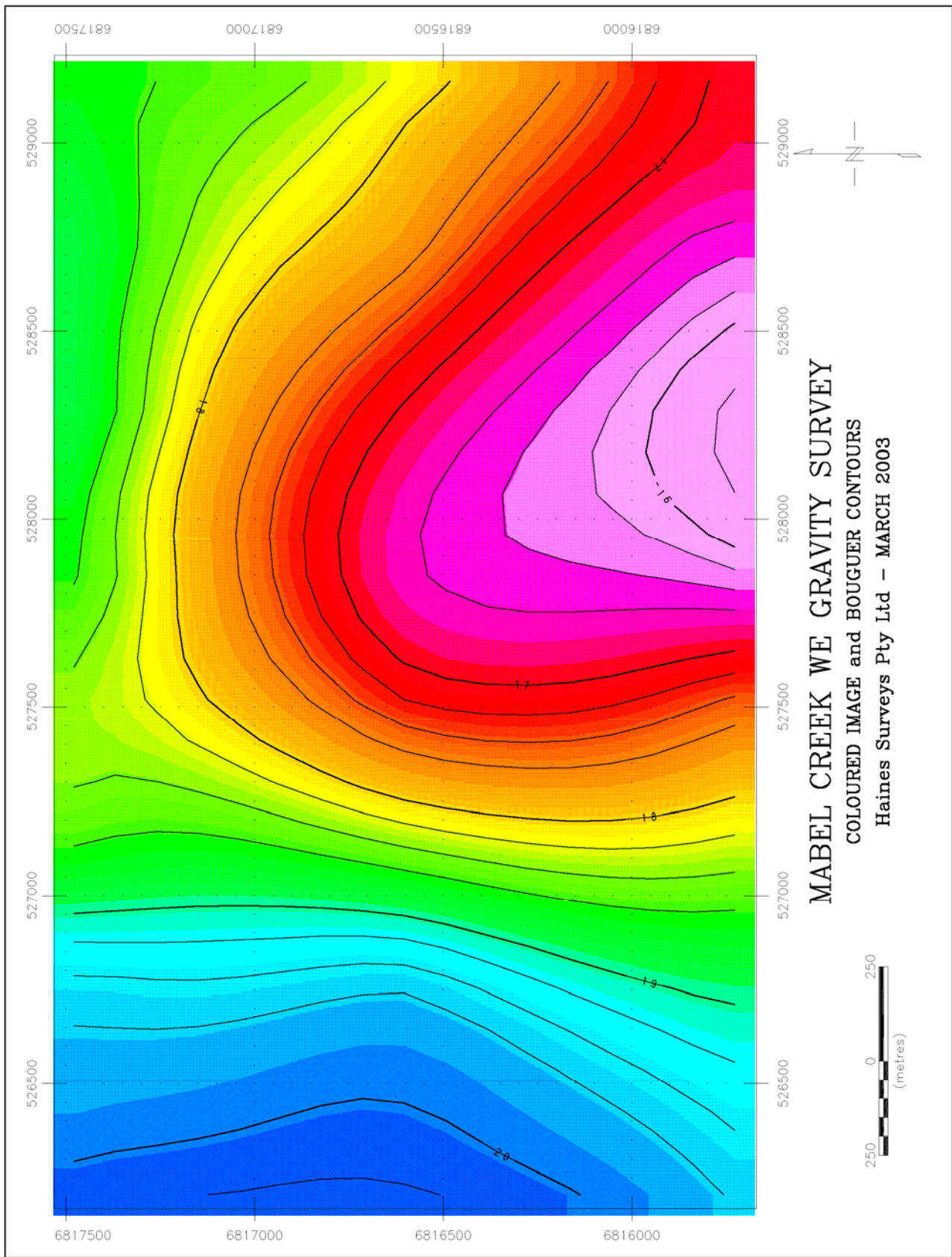












PROCESSED RESULTS

MABEL CREEK GRAVITY SURVEY (AREA 1)

/D86	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
	E	N	x	y		meter	mgal		corn	corn	anom	(AHD)
492729.2	6835863.9	0	1101	+0.000	4828.572	979174.084	-42.170	48.521	-17.594	-11.243	157.229	
492729.2	6835863.9	0	1101	+0.000	4828.572	979174.084	-42.170	48.521	-17.594	-11.243	157.229	
492729.2	6835863.9	0	1101	+1.577	4828.572	979174.084	-42.170	48.521	-17.594	-11.243	157.229	
492729.2	6835863.9	0	1101	+0.000	4826.995	979174.084	-42.170	48.521	-17.594	-11.243	157.229	
491995.9	6834803.4	9200	3480	+0.256	4833.431	979178.943	-38.038	40.599	-14.722	-12.160	131.560	
491992.9	6835192.8	9200	3520	+0.272	4832.497	979178.009	-38.705	41.701	-15.121	-12.125	135.130	
492000.1	6835589.2	9200	3560	+0.288	4831.758	979177.270	-39.172	42.386	-15.369	-12.156	137.348	
491992.7	6836011.7	9200	3600	+0.300	4830.395	979175.907	-40.246	43.464	-15.760	-12.542	140.843	
492001.6	6836397.0	9200	3640	+0.311	4829.411	979174.923	-40.966	43.838	-15.896	-13.024	142.053	
491997.3	6836805.2	9200	3680	+0.322	4828.867	979174.379	-41.230	43.768	-15.870	-13.333	141.826	
491998.3	6837203.7	9200	3720	+0.333	4826.733	979172.245	-43.091	45.596	-16.533	-14.028	147.752	
492027.9	6837606.6	9200	3760	+0.345	4826.060	979171.572	-43.488	45.221	-16.397	-14.665	146.536	
492005.4	6838009.8	9200	3800	+0.358	4825.463	979170.975	-43.809	45.168	-16.378	-15.019	146.365	
492000.1	6838404.7	9200	3840	+0.368	4825.148	979170.660	-43.854	45.135	-16.366	-15.085	146.257	
492003.3	6838799.4	9200	3880	+0.379	4825.609	979171.121	-43.123	45.058	-16.338	-14.403	146.008	
492005.0	6839204.3	9200	3920	+0.390	4826.255	979171.767	-42.199	44.998	-16.317	-13.517	145.814	
491998.9	6839602.9	9200	3960	+0.401	4825.591	979171.103	-42.590	45.515	-16.504	-13.579	147.488	
491999.9	6839999.4	9200	4000	+0.413	4825.128	979170.640	-42.782	45.371	-16.452	-13.862	147.023	
492800.5	6834810.0	9280	3480	+0.586	4832.826	979178.338	-38.639	41.801	-15.157	-11.995	135.454	
492790.7	6835195.1	9280	3520	+0.575	4831.420	979176.932	-39.781	43.553	-15.792	-12.020	141.130	
492798.8	6835593.7	9280	3560	+0.564	4830.684	979176.196	-40.244	44.302	-16.064	-12.006	143.557	
492793.3	6836006.6	9280	3600	+0.548	4830.218	979175.730	-40.427	44.386	-16.095	-12.135	143.831	
492797.1	6836407.8	9280	3640	+0.536	4829.896	979175.408	-40.474	44.358	-16.084	-12.200	143.740	
492803.8	6836805.5	9280	3680	+0.524	4827.264	979172.776	-42.833	47.369	-17.176	-12.641	153.496	
492799.8	6837209.7	9280	3720	+0.512	4827.152	979172.664	-42.668	46.730	-16.944	-12.883	151.425	
492797.6	6837601.2	9280	3760	+0.502	4826.157	979171.669	-43.395	46.776	-16.961	-13.581	151.574	
492799.3	6838005.9	9280	3800	+0.491	4826.046	979171.558	-43.229	46.109	-16.719	-13.840	149.413	
492797.1	6838402.3	9280	3840	+0.479	4826.284	979171.796	-42.720	45.593	-16.532	-13.659	147.741	
492801.5	6838795.2	9280	3880	+0.467	4826.612	979172.124	-42.123	45.972	-16.670	-12.820	148.970	
492795.6	6839202.6	9280	3920	+0.455	4826.785	979172.297	-41.671	45.641	-16.550	-12.579	147.897	
492805.0	6839607.9	9280	3960	+0.444	4825.949	979171.461	-42.229	46.336	-16.802	-12.695	150.150	
492805.8	6839991.0	9280	4000	+0.432	4825.192	979170.704	-42.724	46.495	-16.859	-13.088	150.665	
493600.6	6834818.4	9360	3480	+0.605	4830.850	979176.362	-40.609	42.768	-15.508	-13.349	138.586	
493597.1	6835207.5	9360	3520	+0.616	4830.576	979176.088	-40.617	43.036	-15.605	-13.186	139.454	
493599.9	6835607.3	9360	3560	+0.636	4829.376	979174.888	-41.543	44.613	-16.177	-13.107	144.565	
493600.4	6836017.6	9360	3600	+0.651	4826.826	979172.338	-43.811	47.616	-17.266	-13.461	154.297	
493597.4	6836389.9	9360	3640	+0.663	4828.048	979173.560	-42.334	45.786	-16.602	-13.151	148.366	
493616.1	6836784.2	9360	3680	+0.677	4825.997	979171.509	-44.115	48.358	-17.535	-13.292	156.702	
493620.2	6837201.1	9360	3720	+0.692	4825.957	979171.469	-43.870	48.615	-17.628	-12.883	157.533	
493575.9	6837613.1	9360	3760	+0.703	4827.908	979173.420	-41.636	46.474	-16.852	-12.014	150.597	
493593.9	6838011.6	9360	3800	+0.716	4827.301	979172.813	-41.971	46.991	-17.039	-12.019	152.272	
493576.7	6838399.7	9360	3840	+0.728	4826.628	979172.140	-42.378	48.150	-17.459	-11.687	156.028	
493598.9	6838811.2	9360	3880	+0.740	4827.280	979172.792	-41.444	47.396	-17.186	-11.234	153.583	
493597.0	6839194.7	9360	3920	+0.750	4826.900	979172.412	-41.561	47.515	-17.229	-11.276	153.968	
493596.1	6839595.9	9360	3960	+0.762	4826.757	979172.269	-41.430	46.745	-16.950	-11.635	151.474	
493599.4	6840004.4	9360	4000	+0.774	4824.939	979170.451	-42.968	48.461	-17.572	-12.079	157.034	
494399.4	6834803.4	9440	3480	+0.977	4831.252	979176.764	-40.218	42.604	-15.448	-13.062	138.055	
494397.6	6835191.0	9440	3520	+0.965	4830.105	979175.617	-41.099	44.073	-15.981	-13.007	142.816	
494401.9	6835602.4	9440	3560	+0.955	4829.310	979174.822	-41.612	45.417	-16.468	-12.664	147.170	
494389.1	6836001.2	9440	3600	+0.944	4829.284	979174.796	-41.365	45.933	-16.656	-12.087	148.844	
494404.0	6836408.8	9440	3640	+0.932	4828.427	979173.939	-41.943	47.439	-17.202	-11.705	153.723	
494396.7	6836801.5	9440	3680	+0.921	4827.211	979172.723	-42.890	49.137	-17.817	-11.570	159.225	
494399.9	6837206.3	9440	3720	+0.910	4827.950	979173.462	-41.873	48.018	-17.412	-11.267	155.601	
494383.8	6837600.3	9440	3760	+0.899	4828.754	979174.266	-40.800	47.011	-17.046	-10.835	152.337	
494391.5	6838001.9	9440	3800	+0.885	4828.880	979174.392	-40.398	47.305	-17.153	-10.246	153.290	
494378.0	6838400.9	9440	3840	+0.873	4827.973	979173.485	-41.032	48.734	-17.671	-9.969	157.921	
494404.8	6838802.8	9440	3880	+0.863	4827.598	979173.110	-41.132	49.303	-17.877	-9.707	159.762	
494412.3	6839202.1	9440	3920	+0.851	4826.951	979172.463	-41.506	49.698	-18.021	-9.828	161.045	
494397.9	6839586.0	9440	3960	+0.839	4826.034	979171.546	-42.160	50.153	-18.186	-10.193	162.517	
494413.3	6840011.8	9440	4000	+0.824	4825.669	979171.181	-42.233	49.333	-17.888	-10.789	159.861	
495203.4	6834790.9	9520	3480	+1.001	4831.716	979177.228	-39.762	42.655	-15.467	-12.574	138.221	
495211.5	6835209.9	9520	3520	+1.014	4830.089	979175.601	-41.102	45.025	-16.326	-12.404	145.900	
495192.0	6835595.0	9520	3560	+1.026	4829.291	979174.803	-41.636	46.582	-16.891	-11.945	150.946	
495206.4	6835992.0	9520	3600	+1.036	4828.506	979174.018	-42.149	47.717	-17.302	-11.735	154.624	
495197.3	6836403.0	9520	3640	+1.049	4827.464	979172.976	-42.910	49.332	-17.888	-11.466	159.857	
495208.5	6836812.6	9520	3680	+1.063	4825.863	979171.375	-44.230	51.664	-18.734	-11.300	167.414	
495205.6	6837194.1	9520	3720	+1.073	4827.433	979172.945	-42.399	49.625	-17.994	-10.768	160.806	
495210.8	6837622.1	9520	3760	+1.087	4828.412	979173.924	-41.127	48.218	-17.484	-10.393	156.246	
495210.4	6837994.5	9520	3800	+1.099	4827.789	979173.301	-41.495	48.886	-17.726	-10.335	158.413	
495202.6	6838398.6	9520	3840	+1.111	4827.866	979173.378	-41.141	48.696	-17.658	-10.102	157.798	
495208.7	6838805.4	9520	3880	+1.123	4827.108	979172.620	-41.620	49.769	-18.046	-9.898	161.273	
495206.9	6839217.2	9520	3920	+1.133	4826.698	979172.210	-41.749	49.841	-18.072	-9.980	161.506	
495203.0	6839617.3	9520	3960	+1.145	4824.760	979170.272	-43.413	51.521	-18.682	-10.573	166.951	
495204.5	6839996.0	9520	4000	+1.158	4823.318	979168.830	-44.595	52.565	-19.060	-11.090	170.335	
495208												

495197.1	6842392.4	9520	4240	+1.234	4826.279	979171.791	-39.994	46.201	-16.753	-10.546	149.712
495197.1	6842691.9	9520	4280	+1.247	4827.407	979172.919	-38.661	43.950	-15.936	-10.648	142.417
495201.1	6843203.7	9520	4320	+1.265	4826.845	979172.357	-38.873	43.790	-15.878	-10.962	141.899
495204.3	6843588.0	9520	4360	+1.282	4825.442	979170.954	-40.013	44.958	-16.302	-11.358	145.683
495994.8	6838414.8	9600	3840	+1.519	4826.129	979171.641	-42.867	51.046	-18.510	-10.330	165.413
496002.9	6838814.3	9600	3880	+1.506	4826.131	979171.643	-42.592	50.822	-18.428	-10.198	164.686
496006.6	6839207.6	9600	3920	+1.491	4824.956	979170.468	-43.497	51.800	-18.783	-10.480	167.855
496006.2	6839596.0	9600	3960	+1.478	4824.458	979169.970	-43.729	51.686	-18.742	-10.785	167.487
496016.3	6839979.8	9600	4000	+1.462	4821.897	979167.409	-46.028	54.484	-19.756	-11.300	176.551
496006.2	6840377.7	9600	4040	+1.445	4822.980	979168.492	-44.672	52.666	-19.097	-11.103	170.660
495996.4	6840800.3	9600	4080	+1.424	4823.684	979169.196	-43.679	51.826	-18.792	-10.645	167.939
496008.9	6841200.2	9600	4120	+1.406	4823.741	979169.253	-43.348	51.364	-18.625	-10.609	166.442
495996.1	6841598.9	9600	4160	+1.388	4827.378	979172.890	-39.438	46.585	-16.892	-9.745	150.957
495999.2	6842006.0	9600	4200	+1.372	4828.347	979173.859	-38.191	45.225	-16.399	-9.365	146.550
496006.9	6842398.5	9600	4240	+1.355	4827.000	979172.512	-39.269	46.198	-16.752	-9.823	149.702
496001.3	6842803.9	9600	4280	+1.337	4826.642	979172.154	-39.350	45.379	-16.455	-10.426	147.047
495995.6	6843198.2	9600	4320	+1.322	4825.212	979170.724	-40.510	46.389	-16.821	-10.942	150.320
495993.3	6843597.0	9600	4360	+1.306	4822.466	979167.978	-42.983	49.715	-18.027	-11.295	161.098
/D87											
492729.2	6835863.9	0	1101	+0.000	4825.332	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4825.332	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+1.064	4825.332	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4824.268	979174.084	-42.170	48.521	-17.594	-11.243	157.229
493620.1	6837201.0	9360	3720	+0.043	4822.763	979171.515	-43.824	48.618	-17.629	-12.835	157.543
494412.3	6839202.2	9440	3920	+0.076	4823.736	979172.488	-41.481	49.700	-18.022	-9.802	161.051
495993.0	6834794.1	9600	3480	+0.194	4828.769	979177.521	-39.467	42.975	-15.583	-12.076	139.257
495997.6	6835196.3	9600	3520	+0.182	4827.097	979175.849	-40.864	45.379	-16.455	-11.939	147.049
495998.7	6835608.2	9600	3560	+0.169	4826.059	979174.811	-41.620	46.844	-16.986	-11.762	151.794
495993.2	6836007.4	9600	3600	+0.157	4826.232	979174.984	-41.173	46.867	-16.994	-11.300	151.870
495994.2	6836409.4	9600	3640	+0.146	4823.461	979172.213	-43.669	50.529	-18.322	-11.462	163.737
496001.2	6836819.5	9600	3680	+0.132	4823.782	979172.534	-43.067	50.342	-18.254	-10.979	163.131
496003.0	6837209.6	9600	3720	+0.122	4824.012	979172.764	-42.570	50.380	-18.268	-10.458	163.252
496009.1	6837610.5	9600	3760	+0.112	4822.667	979171.419	-43.640	51.799	-18.783	-10.624	167.852
495998.0	6838009.5	9600	3800	+0.105	4822.270	979171.022	-43.764	51.936	-18.832	-10.660	168.295
496795.9	6834795.4	9680	3480	+0.211	4828.606	979177.358	-39.630	43.125	-15.637	-12.142	139.744
496805.4	6835195.5	9680	3520	+0.222	4828.612	979177.364	-39.350	43.230	-15.675	-11.795	140.084
496803.1	6835604.7	9680	3560	+0.232	4828.142	979176.894	-39.539	44.135	-16.004	-11.408	143.017
496799.8	6836002.9	9680	3600	+0.241	4825.816	979174.568	-41.592	47.353	-17.170	-11.410	153.444
496805.2	6836401.5	9680	3640	+0.249	4825.684	979174.436	-41.451	47.395	-17.186	-11.242	153.581
496798.8	6836803.6	9680	3680	+0.258	4825.788	979174.540	-41.072	47.662	-17.282	-10.692	154.446
496795.3	6837203.0	9680	3720	+0.266	4825.121	979173.873	-41.465	48.741	-17.674	-10.398	157.943
496795.4	6837599.3	9680	3760	+0.275	4823.500	979172.252	-42.815	50.705	-18.386	-10.495	164.308
496828.3	6838004.6	9680	3800	+0.284	4824.249	979173.001	-41.788	49.023	-17.776	-10.541	158.857
496801.2	6838402.7	9680	3840	+0.292	4822.787	979171.539	-42.978	50.542	-18.327	-10.762	163.779
496788.0	6838796.5	9680	3880	+0.300	4820.995	979169.747	-44.500	52.676	-19.100	-10.925	170.692
496811.1	6839196.4	9680	3920	+0.307	4821.962	979170.714	-43.259	51.039	-18.507	-10.727	165.388
496797.7	6839601.0	9680	3960	+0.316	4821.271	979170.023	-43.673	51.591	-18.707	-10.789	167.176
496809.6	6840018.0	9680	4000	+0.325	4820.785	979169.537	-43.874	52.055	-18.875	-10.694	168.681
496797.1	6840392.9	9680	4040	+0.334	4820.109	979168.861	-44.293	52.875	-19.173	-10.591	171.338
496805.2	6840801.0	9680	4080	+0.345	4818.625	979167.377	-45.498	54.499	-19.762	-10.760	176.602
496797.9	6841200.6	9680	4120	+0.355	4816.415	979165.167	-47.434	57.020	-20.676	-11.090	184.769
496797.6	6841597.1	9680	4160	+0.367	4820.232	979168.984	-43.346	51.624	-18.719	-10.441	167.284
496793.1	6841994.3	9680	4200	+0.378	4823.213	979171.965	-40.093	47.420	-17.195	-9.868	153.661
496800.8	6842386.0	9680	4240	+0.388	4823.528	979172.280	-39.510	46.784	-16.964	-9.690	151.600
496796.9	6842800.2	9680	4280	+0.398	4824.138	979172.890	-38.617	45.567	-16.523	-9.573	147.656
496815.9	6843207.0	9680	4320	+0.408	4823.773	979172.525	-38.703	45.080	-16.346	-9.970	146.078
496800.3	6843601.2	9680	4360	+0.419	4823.374	979172.126	-38.833	44.851	-16.263	-10.245	145.338
497597.7	6834801.9	9760	3480	+0.669	4827.484	979176.236	-40.747	44.538	-16.150	-12.359	144.322
497601.1	6835206.1	9760	3520	+0.662	4827.097	979175.849	-40.857	44.945	-16.297	-12.210	145.641
497593.0	6835597.5	9760	3560	+0.655	4827.390	979176.142	-40.296	44.807	-16.247	-11.736	145.195
497601.0	6836005.5	9760	3600	+0.646	4827.621	979176.373	-39.786	44.737	-16.222	-11.271	144.967
497597.8	6836400.0	9760	3640	+0.639	4827.609	979176.361	-39.527	44.903	-16.282	-10.906	145.507
497592.9	6836804.1	9760	3680	+0.631	4826.026	979174.778	-40.834	46.487	-16.856	-11.203	150.638
497598.3	6837213.5	9760	3720	+0.623	4825.193	979173.945	-41.386	47.594	-17.258	-11.050	154.227
497592.7	6837602.1	9760	3760	+0.614	4825.494	979174.246	-40.819	47.471	-17.213	-10.561	153.826
497590.7	6838007.3	9760	3800	+0.604	4825.409	979174.161	-40.627	47.193	-17.112	-10.546	152.926
497601.1	6838405.0	9760	3840	+0.597	4824.382	979173.134	-41.381	48.252	-17.496	-10.626	156.358
497602.7	6838790.9	9760	3880	+0.585	4824.020	979172.772	-41.479	48.619	-17.629	-10.489	157.547
497597.8	6839208.5	9760	3920	+0.577	4823.417	979172.169	-41.796	49.122	-17.812	-10.486	159.178
497595.8	6839604.3	9760	3960	+0.566	4822.051	979170.803	-42.891	50.740	-18.399	-10.550	164.420
497583.8	6839999.8	9760	4000	+0.556	4822.676	979171.428	-41.995	49.789	-18.054	-10.260	161.338
497586.3	6840399.5	9760	4040	+0.546	4822.356	979171.108	-42.042	50.112	-18.171	-10.100	162.385
497593.6	6840805.4	9760	4080	+0.536	4822.686	979171.438	-41.434	49.530	-17.960	-9.864	160.500
497590.2	6841208.1	9760	4120	+0.525	4821.630	979170.382	-42.214	50.547	-18.329	-9.996	163.795
497603.7	6841606.7	9760	4160	+0.497	4823.337	979172.089	-40.234	47.943	-17.384	-9.676	155.357
497598.6	6842016.7	9760	4200	+0.485	4824.230	979172.982	-39.061	46.428	-16.835	-9.468	150.448
497609.4	6842407.8	9760	4240	+0.473	4824.218	979172.970	-38.805	45.942	-16.659	-9.522	148.872
497587.4	6842816.6	9760	4280	+0.462	4823.522	979172.274	-39.222	46.276	-16.780	-9.725	149.955
497586.8	6843212.9	9760	4320	+0.446	4821.276	979170.028	-41.196	48.817	-17.701	-10.081	158.187
497607.4	6843604.7	9760	4360	+0.435	4820.685	979169.437	-41.519	49.113	-17.809	-10.215	159.147
498397.3	6834804.3	9840	3480	+0.681	4828.961	979177.713	-39.269	42.390	-15.371	-12.250	137.362
498402.9	6835211.0	9840	3520	+0.691	4828.661	979177.413	-39.290	42.963	-15.578	-11.906	139.218
498404.2	6835610.2	9840	3560	+0.700	4828.245	979176.997	-39.433	43.886	-15.913	-11.460	142.210
498384.9	6836019.4	9840	3600	+0.709	4827.404	979176.156	-39.993	44.545	-16.152	-11.600	144.347
498389.5	6836405.0	9840	3640	+0.717	4826.587	979175.339	-40.546	45.751	-16.589	-11.385	148.253
498407.4	6836823.9	9840	3680	+0.726	4827.871	979176.623	-38.975</				

498397.9	6838399.9	9840	3840	+0.772	4825.212	979173.964	-40.555	47.138	-17.092	-10.509	152.747
498398.0	6838798.3	9840	3880	+0.781	4823.806	979172.558	-41.688	48.680	-17.652	-10.659	157.745
498396.6	6839195.3	9840	3920	+0.790	4822.105	979170.857	-43.117	50.754	-18.404	-10.767	164.465
498403.7	6839593.2	9840	3960	+0.801	4820.321	979169.073	-44.629	53.197	-19.290	-10.721	172.383
498392.1	6840005.6	9840	4000	+0.811	4820.336	979169.088	-44.331	53.057	-19.239	-10.513	171.929
499191.9	6834803.3	9920	3480	+0.959	4828.929	979177.681	-39.302	41.867	-15.181	-12.615	135.669
499202.0	6835201.8	9920	3520	+0.951	4828.831	979177.583	-39.127	42.110	-15.269	-12.286	136.455
499187.8	6835593.7	9920	3560	+0.942	4828.237	979176.989	-39.452	43.378	-15.729	-11.803	140.564
499194.6	6836005.7	9920	3600	+0.932	4828.607	979177.359	-38.800	42.964	-15.579	-11.415	139.221
499200.4	6836414.7	9920	3640	+0.920	4826.495	979175.247	-40.632	45.718	-16.578	-11.491	148.148
499183.3	6836828.9	9920	3680	+0.911	4825.426	979174.178	-41.417	46.998	-17.042	-11.460	152.295
499209.7	6837214.0	9920	3720	+0.900	4824.815	979173.567	-41.764	47.603	-17.261	-11.422	154.256
499198.5	6837608.0	9920	3760	+0.890	4825.660	979174.412	-40.649	46.606	-16.900	-10.943	151.024
499199.8	6838014.6	9920	3800	+0.880	4825.630	979174.382	-40.401	46.560	-16.883	-10.723	150.876
499203.3	6838403.4	9920	3840	+0.870	4824.705	979173.457	-41.059	47.743	-17.312	-10.628	154.709
499200.2	6838808.0	9920	3880	+0.860	4824.270	979173.022	-41.217	48.274	-17.504	-10.448	156.430
499192.8	6839199.8	9920	3920	+0.850	4823.555	979172.307	-41.664	49.569	-17.974	-10.069	160.624
499183.4	6839611.6	9920	3960	+0.839	4822.139	979170.891	-42.798	51.931	-18.830	-9.698	168.278
499209.9	6840006.8	9920	4000	+0.827	4822.152	979170.904	-42.515	51.852	-18.802	-9.464	168.023
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492729.2	6835863.9	0	1101	+0.000	4823.240	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4823.240	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.710	4823.240	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4822.530	979174.084	-42.170	48.521	-17.594	-11.243	157.229
500001.1	6835598.6	0	3560	+0.045	4825.087	979175.931	-40.507	44.600	-16.172	-12.079	144.525
500004.6	6836002.7	0	3600	+0.055	4824.120	979174.964	-41.197	46.563	-16.884	-11.518	150.885
499998.3	6836399.8	0	3640	+0.061	4824.821	979175.665	-40.224	45.971	-16.669	-10.922	148.966
499997.7	6836802.7	0	3680	+0.068	4824.618	979175.462	-40.151	45.777	-16.599	-10.973	148.337
500002.7	6837204.6	0	3720	+0.075	4822.525	979173.369	-41.968	47.706	-17.298	-11.561	154.587
499999.5	6837597.4	0	3760	+0.082	4821.292	979172.136	-42.932	49.135	-17.817	-11.614	159.219
500001.1	6837998.7	0	3800	+0.089	4821.379	979172.223	-42.571	49.956	-18.114	-10.729	161.879
500000.4	6838408.7	0	3840	+0.095	4821.975	979172.819	-41.694	49.003	-17.769	-10.459	158.792
500005.8	6838799.6	0	3880	+0.106	4818.131	979168.975	-45.270	54.187	-19.648	-10.732	175.590
500002.6	6839193.9	0	3920	+0.118	4820.303	979171.147	-42.828	51.606	-18.712	-9.935	167.225
499994.7	6839589.2	0	3960	+0.129	4819.144	979169.988	-43.716	53.325	-19.336	-9.727	172.798
500003.1	6840003.0	0	4000	+0.140	4817.660	979168.504	-44.917	55.185	-20.010	-9.742	178.825
499994.2	6840392.4	0	4040	+0.152	4817.187	979168.031	-45.124	55.582	-20.154	-9.696	180.109
499996.3	6840808.2	0	4080	+0.160	4819.235	979170.079	-42.791	52.493	-19.034	-9.332	170.100
500000.3	6841195.8	0	4120	+0.166	4820.516	979171.360	-41.245	50.441	-18.290	-9.094	163.451
499998.3	6841607.5	0	4160	+0.173	4819.833	979170.677	-41.646	50.734	-18.396	-9.309	164.399
499995.3	6841889.0	0	4200	+0.180	4817.795	979168.639	-43.423	52.674	-19.100	-9.849	170.686
499985.9	6842397.3	0	4240	+0.186	4816.531	979167.375	-44.408	53.857	-19.529	-10.079	174.522
500002.5	6842791.6	0	4280	+0.193	4813.433	979164.277	-47.236	57.472	-20.840	-10.603	186.236
499998.5	6843187.4	0	4320	+0.200	4814.315	979165.159	-46.083	55.571	-20.150	-10.663	180.074
500006.0	6843588.2	0	4360	+0.209	4814.044	979164.888	-46.080	55.709	-20.200	-10.571	180.521
500013.7	6843999.4	0	4400	+0.218	4812.473	979163.317	-47.370	58.065	-21.055	-10.359	188.157
500004.5	6844391.4	0	4440	+0.225	4811.720	979162.564	-47.855	58.630	-21.259	-10.484	189.986
500024.8	6844802.0	0	4480	+0.236	4812.941	979163.785	-46.353	55.843	-20.249	-10.759	180.956
500001.6	6845200.1	0	4520	+0.243	4812.428	979163.272	-46.594	55.780	-20.226	-11.040	180.751
500797.0	6835596.2	80	3560	+0.668	4824.143	979174.987	-41.452	44.813	-16.250	-12.888	145.215
500798.3	6835998.8	80	3600	+0.662	4824.892	979175.736	-40.427	44.912	-16.285	-11.801	145.535
500805.6	6836399.4	80	3640	+0.656	4825.206	979176.050	-39.839	44.637	-16.185	-11.388	144.642
500795.8	6836795.6	80	3680	+0.651	4824.941	979175.785	-39.833	44.844	-16.260	-11.249	145.313
500803.0	6837198.3	80	3720	+0.645	4823.835	979174.679	-40.663	45.411	-16.466	-11.718	147.153
500792.6	6837596.9	80	3760	+0.639	4823.169	979174.013	-41.056	46.018	-16.686	-11.724	149.117
500801.9	6838002.6	80	3800	+0.633	4821.808	979172.652	-42.139	48.153	-17.461	-11.446	156.038
500823.8	6838393.0	80	3840	+0.627	4820.977	979171.821	-42.703	49.523	-17.957	-11.137	160.476
500806.8	6838792.0	80	3880	+0.620	4820.875	979171.719	-42.531	50.033	-18.142	-10.641	162.128
500798.0	6839195.9	80	3920	+0.613	4818.988	979169.832	-44.142	52.881	-19.175	-10.435	171.359
500804.4	6839613.6	80	3960	+0.604	4814.704	979165.548	-48.140	58.455	-21.196	-10.881	189.419
500812.5	6840002.7	80	4000	+0.597	4816.137	979166.981	-46.440	56.451	-20.469	-10.459	182.925
500801.9	6840393.5	80	4040	+0.589	4817.729	979168.573	-44.581	54.046	-19.597	-10.132	175.133
500797.3	6840792.0	80	4080	+0.582	4818.777	979169.621	-43.260	52.548	-19.054	-9.766	170.280
500801.7	6841190.5	80	4120	+0.575	4818.915	979169.759	-42.849	52.232	-18.940	-9.557	169.256
500788.9	6841609.4	80	4160	+0.568	4818.593	979169.437	-42.885	52.232	-18.939	-9.592	169.254
500784.6	6842001.2	80	4200	+0.561	4817.786	979168.630	-43.424	52.801	-19.146	-9.769	171.098
500811.7	6842382.1	80	4240	+0.553	4815.263	979166.107	-45.686	55.536	-20.138	-10.288	179.961
500811.1	6842802.3	80	4280	+0.545	4814.350	979165.194	-46.311	56.258	-20.399	-10.453	182.300
500808.8	6843198.9	80	4320	+0.537	4812.692	979163.536	-47.698	57.683	-20.916	-10.932	186.917
500795.8	6843618.9	80	4360	+0.528	4813.853	979164.697	-46.250	55.476	-20.116	-10.890	179.767
500802.2	6843999.2	80	4400	+0.520	4814.455	979165.299	-45.388	54.718	-19.841	-10.510	177.312
500797.8	6844410.7	80	4440	+0.513	4816.048	979166.892	-43.513	52.921	-19.189	-9.782	171.487
500806.8	6844821.2	80	4480	+0.501	4814.626	979165.470	-44.655	53.986	-19.576	-10.244	174.939
500797.0	6845189.1	80	4520	+0.493	4816.108	979166.952	-42.921	51.610	-18.714	-10.025	167.240
498403.0	6840407.0	9840	4040	+0.366	4819.356	979170.200	-42.945	51.505	-18.676	-10.116	166.899
498412.7	6840800.7	9840	4080	+0.373	4821.373	979172.217	-40.658	48.631	-17.634	-9.661	157.585
498405.9	6841190.2	9840	4120	+0.393	4821.018	979171.862	-40.747	48.960	-17.753	-9.539	158.653
498389.1	6841590.2	9840	4160	+0.401	4821.381	979172.225	-40.110	48.143	-17.457	-9.424	156.004
498404.1	6842004.7	9840	4200	+0.407	4820.482	979171.326	-40.725	49.171	-17.830	-9.384	159.335
498393.2	6842492.7	9840	4240	+0.414	4818.929	979169.773	-41.944	50.548	-18.329	-9.725	163.799
498401.7	6842786.5	9840	4280	+0.420	4816.915	979167.759	-43.757	52.593	-19.071	-10.234	170.426
498408.5	6843179.4	9840	4320	+0.427	4816.357	979167.201	-44.046	52.389	-18.996	-10.654	169.762
498399.3	6843615.7	9840	4360	+0.435	4815.235	979166.079	-44.870	53.607	-19.438	-10.701	173.711
498403.6	6844003.9	9840	4400	+0.442	4814.347	979165.191	-45.492	54.651	-19.817	-10.658	177.093
498409.6	6844321.6	9840	4440	+0.449	4812.859	979163.703	-46.763	56.149	-20.360	-10.974	181.948
498393.1	6844792.3	9840	4480	+0.460	4813.460	979164.304	-45.840	54.613	-19.803	-11.030	176.971
498424.3	6845197.8	9840	4520	+0.469	4814.194	979165.03					

499189.2	6841185.2	9920	4120	+0.334	4820.124	979170.968	-41.644	50.765	-18.408	-9.287	164.500
499185.0	6841598.2	9920	4160	+0.328	4821.033	979171.877	-40.452	49.119	-17.811	-9.144	159.166
499194.2	6841996.1	9920	4200	+0.320	4820.575	979171.419	-40.638	49.329	-17.887	-9.196	159.847
499180.4	6842396.8	9920	4240	+0.312	4818.157	979169.001	-42.782	52.244	-18.944	-9.482	169.293
499172.0	6842793.2	9920	4280	+0.304	4818.124	979168.968	-42.544	51.314	-18.607	-9.836	166.281
499191.2	6843195.8	9920	4320	+0.297	4813.447	979164.291	-46.945	56.437	-20.464	-10.973	182.881
499191.1	6843605.6	9920	4360	+0.288	4811.148	979161.992	-48.964	59.097	-21.429	-11.296	191.501
499236.6	6843945.4	9920	4400	+0.281	4809.821	979160.665	-50.058	60.886	-22.077	-11.250	197.296
499193.9	6844403.6	9920	4440	+0.271	4811.506	979162.350	-48.060	57.924	-21.003	-11.140	187.698
499186.3	6844813.8	9920	4480	+0.262	4813.447	979164.291	-45.839	54.789	-19.867	-10.916	177.542
499187.0	6845220.3	9920	4520	+0.255	4813.750	979164.594	-45.258	53.620	-19.443	-11.080	173.754
/D89											
492729.2	6835863.9	0	1101	+0.000	4821.803	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4821.803	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.683	4821.803	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4821.120	979174.084	-42.170	48.521	-17.594	-11.243	157.229
500797.2	6834799.0	80	3480	+0.051	4822.211	979174.492	-42.494	43.148	-15.645	-14.992	139.817
500797.4	6835204.8	80	3520	+0.046	4822.421	979174.702	-42.005	44.276	-16.055	-13.784	143.473
500797.0	6835596.7	80	3560	+0.042	4822.737	979175.018	-41.421	44.804	-16.246	-12.863	145.184
501595.0	6834799.3	160	3480	+0.058	4820.543	979172.824	-44.161	42.891	-15.552	-16.823	138.985
501603.4	6835205.1	160	3520	+0.064	4821.059	979173.340	-43.367	42.875	-15.547	-16.039	138.935
501595.8	6835605.1	160	3560	+0.072	4821.812	979174.093	-42.340	43.029	-15.603	-14.914	139.433
501598.5	6836001.8	160	3600	+0.077	4822.177	979174.458	-41.703	44.156	-16.011	-13.559	143.084
501613.4	6836442.5	160	3640	+0.082	4823.217	979175.498	-40.361	43.896	-15.917	-12.382	142.244
501624.1	6836834.6	160	3680	+0.088	4822.653	979174.934	-40.657	44.450	-16.118	-12.325	144.038
501604.3	6837210.2	160	3720	+0.093	4822.088	979174.369	-40.964	44.978	-16.309	-12.296	145.747
501609.1	6837599.9	160	3760	+0.099	4820.144	979172.425	-42.642	47.508	-17.227	-12.360	153.948
501603.4	6838007.8	160	3800	+0.106	4818.356	979170.637	-44.150	49.802	-18.058	-12.407	161.381
501598.7	6838398.0	160	3840	+0.117	4819.332	979171.613	-42.907	48.837	-17.708	-11.779	158.252
501582.2	6838807.9	160	3880	+0.126	4818.096	979170.377	-43.862	50.793	-18.418	-11.487	164.591
501572.4	6839194.0	160	3920	+0.138	4815.893	979168.174	-45.801	54.119	-19.624	-11.306	175.368
501583.8	6839566.6	160	3960	+0.148	4814.208	979166.489	-47.231	56.618	-20.530	-11.143	183.468
501595.7	6839994.3	160	4000	+0.160	4813.205	979165.486	-47.941	57.974	-21.022	-10.989	187.861
501601.8	6840410.3	160	4040	+0.167	4814.727	979167.008	-46.134	55.865	-20.257	-10.527	181.026
501606.3	6840805.6	160	4080	+0.173	4816.048	979168.329	-44.543	54.083	-19.611	-10.070	175.253
501612.7	6841210.2	160	4120	+0.180	4815.060	979167.341	-45.254	55.178	-20.008	-10.084	178.800
501609.3	6841611.8	160	4160	+0.186	4813.006	979165.287	-47.033	57.297	-20.776	-10.512	185.669
501596.9	6841987.8	160	4200	+0.193	4813.428	979165.709	-46.354	56.399	-20.450	-10.405	182.757
501598.4	6842393.1	160	4240	+0.200	4813.780	979166.061	-45.724	55.551	-20.143	-10.316	180.010
501597.2	6842811.3	160	4280	+0.206	4814.031	979166.312	-45.187	54.535	-19.775	-10.427	176.717
501604.0	6843209.1	160	4320	+0.212	4813.437	979165.718	-45.509	54.758	-19.855	-10.607	177.440
501599.5	6843581.9	160	4360	+0.219	4812.484	979164.765	-46.207	54.567	-19.786	-11.426	176.821
501621.4	6844138.1	160	4400	+0.228	4807.198	979159.479	-51.113	61.314	-22.233	-12.032	198.683
501604.5	6844396.4	160	4440	+0.234	4809.834	979162.115	-48.300	58.110	-21.071	-11.261	188.303
501602.5	6844754.4	160	4480	+0.241	4811.626	979163.907	-46.263	56.022	-20.314	-10.555	181.536
501621.1	6845018.2	160	4520	+0.248	4806.488	979158.769	-51.221	62.894	-22.806	-11.132	203.805
502402.6	6834785.1	240	3480	+0.459	4818.409	979170.690	-46.305	44.121	-15.998	-18.183	142.970
502395.0	6835202.7	240	3520	+0.454	4818.969	979171.250	-45.459	43.773	-15.872	-17.558	141.844
502400.9	6835577.4	240	3560	+0.449	4820.364	979172.645	-43.807	42.722	-15.491	-16.576	138.438
502392.5	6835981.5	240	3600	+0.444	4821.544	979173.825	-42.350	42.487	-15.406	-15.269	137.677
502401.1	6836401.2	240	3640	+0.438	4821.718	979173.999	-41.889	44.098	-15.990	-13.781	142.896
502396.4	6836793.1	240	3680	+0.433	4820.648	979172.929	-42.690	46.116	-16.722	-13.296	149.437
502399.8	6837207.1	240	3720	+0.428	4819.663	979171.944	-43.392	47.251	-17.133	-13.274	153.113
502418.1	6837583.8	240	3760	+0.423	4821.158	979173.439	-41.638	45.317	-16.432	-12.754	146.846
502376.9	6837990.0	240	3800	+0.417	4820.097	979172.378	-42.421	46.914	-17.011	-12.519	152.022
502393.3	6838395.6	240	3840	+0.411	4818.681	979170.962	-43.560	48.974	-17.758	-12.344	158.697
502395.0	6838797.8	240	3880	+0.405	4817.785	979170.066	-44.180	50.535	-18.324	-11.969	163.757
502403.4	6839197.6	240	3920	+0.400	4816.385	979168.666	-45.306	52.676	-19.101	-11.731	170.694
502383.1	6839590.4	240	3960	+0.389	4815.439	979167.720	-45.983	54.265	-19.677	-11.395	175.842
502452.1	6840018.3	240	4000	+0.382	4815.932	979168.213	-45.198	53.907	-19.547	-10.838	174.681
502395.3	6840419.6	240	4040	+0.374	4813.949	979166.230	-46.906	56.324	-20.423	-11.005	182.515
502415.8	6840756.6	240	4080	+0.367	4815.682	979167.963	-44.942	53.833	-19.520	-10.629	174.444
502285.6	6841117.9	240	4120	+0.360	4811.540	979163.821	-48.837	59.244	-21.482	-11.075	191.976
502298.5	6841595.3	240	4160	+0.341	4804.456	979156.737	-55.594	68.202	-24.730	-12.123	221.005
502408.2	6842013.1	240	4200	+0.319	4809.054	979161.335	-50.710	61.736	-22.386	-11.360	200.052
502395.0	6842413.8	240	4240	+0.310	4812.095	979164.376	-47.395	57.572	-20.876	-10.699	186.558
502404.5	6842808.1	240	4280	+0.303	4812.033	979164.314	-47.187	57.249	-20.759	-10.697	185.513
502389.5	6843207.4	240	4320	+0.296	4813.271	979165.552	-45.676	55.045	-19.960	-10.591	178.370
502395.7	6843601.8	240	4360	+0.290	4813.990	979166.271	-44.687	53.229	-19.301	-10.759	172.485
503214.4	6834807.9	320	3480	+0.467	4819.822	979172.103	-44.876	40.840	-14.809	-18.845	132.341
503193.3	6835213.5	320	3520	+0.472	4819.862	979172.143	-44.558	41.730	-15.132	-17.959	135.225
503209.9	6835598.4	320	3560	+0.478	4820.943	979173.224	-43.214	41.343	-14.991	-16.862	133.968
503206.2	6836012.0	320	3600	+0.484	4821.289	979173.570	-42.584	41.845	-15.173	-15.912	135.595
503191.5	6836408.4	320	3640	+0.492	4820.832	979173.113	-42.769	43.356	-15.721	-15.135	140.491
503196.8	6836803.5	320	3680	+0.498	4820.718	979172.999	-42.613	44.471	-16.125	-14.267	144.106
503212.5	6837205.0	320	3720	+0.505	4821.320	979173.601	-41.736	44.608	-16.175	-13.303	144.548
503196.9	6837593.7	320	3760	+0.511	4821.941	979174.222	-40.849	44.103	-15.992	-12.737	142.914
503197.5	6838007.3	320	3800	+0.517	4820.747	979173.028	-41.759	46.068	-16.704	-12.396	149.281
503197.1	6838387.5	320	3840	+0.523	4819.528	979171.809	-42.718	48.073	-17.432	-12.076	155.778
503191.5	6838792.8	320	3880	+0.530	4816.820	979169.101	-45.148	51.820	-18.790	-12.118	167.921
503199.3	6839214.8	320	3920	+0.536	4819.356	979171.637	-42.324	48.605	-17.625	-11.343	157.503
503188.8	6839601.5	320	3960	+0.543	4818.683	979170.964	-42.732	49.321	-17.884	-11.295	159.822
503194.4	6839998.1	320	4000	+0.549	4818.269	979170.550	-42.874	50.154	-18.186	-10.906	162.522
503204.5	6840398.9	320	4040	+0.557	4818.252	979170.533	-42.617	50.304	-18.240	-10.554	163.006
504007.0	6835599.3	400	3560	+0.638	4819.973	979172.254	-44.183	43.775	-15.873	-16.281	141.851
504002.1	6836004.5	400	3600	+0.632	4821.037	979173.318	-42.841	42.796	-15.518	-15.563	138.679
503997.2											

504001.5	6837608.2	400	3760	+0.608	4820.438	979172.719	-42.342	44.885	-16.275	-13.732	145.447
503993.9	6838002.3	400	3800	+0.602	4819.572	979171.853	-42.938	46.689	-16.930	-13.178	151.293
504000.9	6838401.1	400	3840	+0.596	4818.761	979171.042	-43.476	48.048	-17.423	-12.850	155.698
504001.9	6838793.5	400	3880	+0.591	4819.771	979172.052	-42.197	46.893	-17.004	-12.307	151.955
503992.2	6839205.4	400	3920	+0.584	4818.759	979171.040	-42.927	48.443	-17.566	-12.050	156.976
503990.7	6839608.9	400	3960	+0.578	4817.853	979170.134	-43.557	49.628	-17.995	-11.924	160.815
504005.3	6840008.2	400	4000	+0.572	4817.567	979169.848	-43.569	50.056	-18.150	-11.664	162.203
503992.2	6840401.8	400	4040	+0.565	4816.680	979168.961	-44.187	51.401	-18.638	-11.424	166.562
/D90											
492729.2	6835863.9	0	1101	+0.000	4820.672	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4820.672	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.444	4820.672	979174.084	-42.170	48.521	-17.594	-11.243	157.229
492729.2	6835863.9	0	1101	+0.000	4820.228	979174.084	-42.170	48.521	-17.594	-11.243	157.229
500797.0	6835596.5	80	3560	+0.024	4821.614	979175.026	-41.413	44.799	-16.244	-12.858	145.169
502401.0	6835577.5	240	3560	+0.033	4819.263	979172.675	-43.777	42.711	-15.487	-16.553	138.400
502389.6	6843207.5	240	4320	+0.290	4812.120	979165.532	-45.696	55.018	-19.950	-10.628	178.284
502394.8	6843599.9	240	4360	+0.296	4812.941	979166.353	-44.607	53.113	-19.259	-10.753	172.108
503203.7	6840797.0	320	4080	+0.243	4815.408	979168.820	-44.057	52.268	-18.953	-10.742	169.372
503218.9	6841200.8	320	4120	+0.247	4813.182	979166.594	-46.007	54.997	-19.942	-10.952	178.215
503245.5	6841564.8	320	4160	+0.252	4811.052	979164.464	-47.888	57.741	-20.937	-11.084	187.107
503192.2	6842003.3	320	4200	+0.260	4810.270	979163.682	-48.370	58.890	-21.354	-10.834	190.828
503197.3	6842428.4	320	4240	+0.265	4810.845	979164.257	-47.504	57.631	-20.897	-10.770	186.750
503203.2	6842812.9	320	4280	+0.270	4812.155	979165.567	-45.931	55.467	-20.113	-10.577	179.737
503193.3	6843206.9	320	4320	+0.274	4812.134	979165.546	-45.682	54.868	-19.895	-10.710	177.797
503185.3	6843615.8	320	4360	+0.279	4812.104	979165.516	-45.433	54.228	-19.663	-10.868	175.724
504008.0	6834804.8	400	3480	+0.048	4818.178	979171.590	-45.391	41.383	-15.006	-19.014	134.099
504000.4	6835186.4	400	3520	+0.043	4820.293	979173.705	-43.015	41.152	-14.922	-16.785	133.350
504007.1	6835599.4	400	3560	+0.040	4818.870	979172.282	-44.155	43.778	-15.874	-16.250	141.861
503992.3	6840799.9	400	4080	+0.231	4814.491	979167.903	-44.972	53.009	-19.221	-11.185	171.771
503998.8	6841197.4	400	4120	+0.219	4812.569	979165.981	-46.622	55.395	-20.086	-11.314	179.504
503999.4	6841613.8	400	4160	+0.215	4811.855	979165.267	-47.051	56.114	-20.347	-11.284	181.835
503967.8	6841994.3	400	4200	+0.211	4813.196	979166.608	-45.450	54.326	-19.699	-10.823	176.039
504000.1	6842445.1	400	4240	+0.187	4813.672	979167.084	-44.665	53.276	-19.318	-10.707	172.639
503991.7	6842818.4	400	4280	+0.182	4812.792	979166.204	-45.290	53.918	-19.551	-10.923	174.718
504006.0	6843267.9	400	4320	+0.175	4810.360	979163.772	-47.414	56.465	-20.474	-11.424	182.970
504013.2	6843587.4	400	4360	+0.170	4811.780	979165.192	-45.776	54.264	-19.676	-11.188	175.840
504810.3	6834805.7	480	3480	+0.053	4815.753	979169.165	-47.815	43.026	-15.601	-20.391	139.423
504785.0	6835214.1	480	3520	+0.057	4817.972	979171.384	-45.316	42.074	-15.256	-18.499	136.339
504797.5	6835621.5	480	3560	+0.061	4819.156	979172.568	-43.853	42.371	-15.364	-16.846	137.301
504805.7	6836028.7	480	3600	+0.065	4819.060	979172.472	-43.670	43.411	-15.741	-16.000	140.672
504799.8	6836411.2	480	3640	+0.072	4818.437	979171.849	-44.031	44.344	-16.079	-15.766	143.694
504803.5	6836802.5	480	3680	+0.079	4817.814	979171.226	-44.386	45.546	-16.515	-15.355	147.588
504793.7	6837212.3	480	3720	+0.086	4818.031	979171.443	-43.888	44.715	-16.214	-15.387	144.897
504804.3	6837600.4	480	3760	+0.094	4816.769	979170.181	-44.885	46.748	-16.951	-15.087	151.485
504798.4	6838008.2	480	3800	+0.102	4817.812	979171.224	-43.562	45.975	-16.671	-14.258	148.979
504831.9	6838412.6	480	3840	+0.109	4818.064	979171.476	-43.033	45.934	-16.656	-13.756	148.845
504826.8	6838820.1	480	3880	+0.113	4817.688	979171.100	-43.130	46.679	-16.926	-13.377	151.262
504801.3	6839189.9	480	3920	+0.118	4817.683	979171.095	-42.882	47.272	-17.141	-12.751	153.181
504805.2	6839596.4	480	3960	+0.122	4816.907	979170.319	-43.380	48.668	-17.647	-12.359	157.705
504796.3	6839997.8	480	4000	+0.127	4814.967	979168.379	-45.045	51.433	-18.650	-12.262	166.664
504795.8	6840378.9	480	4040	+0.131	4812.246	979165.658	-47.505	55.292	-20.049	-12.263	179.169
504808.1	6840785.6	480	4080	+0.135	4812.510	979165.922	-46.963	54.920	-19.914	-11.957	177.965
504801.0	6841181.9	480	4120	+0.139	4813.774	979167.186	-45.428	53.205	-19.292	-11.515	172.408
504804.1	6841591.5	480	4160	+0.143	4812.783	979166.195	-46.138	54.582	-19.792	-11.348	176.871
504799.6	6841995.7	480	4200	+0.147	4813.407	979166.819	-45.238	53.279	-19.319	-11.278	172.647
504796.4	6842399.8	480	4240	+0.152	4815.462	979168.874	-42.906	50.043	-18.146	-11.009	162.162
504795.9	6842803.6	480	4280	+0.156	4815.836	979169.248	-42.256	49.238	-17.854	-10.872	159.554
504802.8	6843184.7	480	4320	+0.160	4814.990	979168.402	-42.841	49.917	-18.100	-11.025	161.752
504801.9	6843597.8	480	4360	+0.165	4813.870	979167.282	-43.679	50.888	-18.452	-11.243	164.900
505595.4	6834795.4	560	3480	+0.411	4813.136	979166.548	-50.439	44.497	-16.135	-22.077	144.189
505599.0	6835195.1	560	3520	+0.407	4813.957	979167.369	-49.344	44.735	-16.221	-20.830	144.962
505592.9	6835600.2	560	3560	+0.403	4815.698	979169.110	-47.326	44.363	-16.086	-19.049	143.757
505610.2	6835998.7	560	3600	+0.399	4815.734	979169.146	-47.016	46.194	-16.750	-17.573	149.689
505604.6	6836391.5	560	3640	+0.395	4817.195	979170.607	-45.286	45.374	-16.453	-16.365	147.031
505605.2	6836788.5	560	3680	+0.392	4816.687	979170.099	-45.523	46.242	-16.768	-16.048	149.846
505610.5	6837200.7	560	3720	+0.387	4813.582	979166.994	-48.345	50.206	-18.205	-16.344	162.689
505597.3	6837601.1	560	3760	+0.383	4813.243	979166.655	-48.410	50.224	-18.211	-16.397	162.747
505620.2	6837991.6	560	3800	+0.377	4812.387	979165.799	-48.998	51.485	-18.669	-16.182	166.834
505616.5	6838392.3	560	3840	+0.373	4812.283	979165.695	-48.828	52.063	-18.878	-15.644	168.706
505602.7	6838795.0	560	3880	+0.368	4813.218	979166.630	-47.617	51.238	-18.579	-14.958	166.034
505601.4	6839199.2	560	3920	+0.363	4812.908	979166.320	-47.651	52.000	-18.855	-14.506	168.503
505575.0	6839599.7	560	3960	+0.356	4813.261	979166.673	-47.023	52.065	-18.879	-13.837	168.71

506399.3	6835208.5	640	3520	+0.030	4812.420	979166.354	-50.350	45.975	-16.671	-21.046	148.978
506403.0	6835609.5	640	3560	+0.033	4811.888	979165.822	-50.607	47.278	-17.143	-20.472	153.201
506396.9	6836001.6	640	3600	+0.035	4812.020	979165.954	-50.206	48.669	-17.648	-19.185	157.709
506398.5	6836417.2	640	3640	+0.038	4813.653	979167.587	-48.289	47.103	-17.080	-18.266	152.633
506399.6	6836800.9	640	3680	+0.044	4813.409	979167.343	-48.270	47.980	-17.398	-17.687	155.477
506362.4	6837240.1	640	3720	+0.048	4812.598	979166.532	-48.780	49.866	-18.082	-16.995	161.589
506362.2	6837642.6	640	3760	+0.053	4811.153	979165.087	-49.949	51.797	-18.782	-16.934	167.846
506387.0	6838018.5	640	3800	+0.059	4811.869	979165.803	-48.976	51.048	-18.510	-16.438	165.418
506420.0	6838397.1	640	3840	+0.063	4813.203	979167.137	-47.382	49.193	-17.838	-16.027	159.408
506388.4	6838815.7	640	3880	+0.066	4811.816	979165.750	-48.483	51.067	-18.517	-15.933	165.480
506387.5	6839209.8	640	3920	+0.069	4810.104	979164.038	-49.925	53.772	-19.498	-15.651	174.244
506363.4	6839604.4	640	3960	+0.072	4810.002	979163.936	-49.757	54.578	-19.790	-14.969	176.856
506392.3	6840005.4	640	4000	+0.076	4810.401	979164.335	-49.083	54.342	-19.705	-14.446	176.091
506398.1	6840396.9	640	4040	+0.079	4809.069	979163.003	-50.147	56.501	-20.487	-14.134	183.088
506401.6	6840790.1	640	4080	+0.081	4809.921	979163.855	-49.026	55.835	-20.246	-13.437	180.930
506393.5	6841252.5	640	4120	+0.084	4809.939	979163.873	-48.692	56.092	-20.339	-12.939	181.763
506392.9	6841584.6	640	4160	+0.087	4810.477	979164.411	-47.926	55.369	-20.077	-12.634	179.420
506402.6	6841989.8	640	4200	+0.090	4811.855	979165.789	-46.271	53.329	-19.337	-12.280	172.809
506413.4	6842387.3	640	4240	+0.093	4812.693	979166.627	-45.161	52.051	-18.874	-11.984	168.668
506402.3	6842773.9	640	4280	+0.096	4813.961	979167.895	-43.629	50.026	-18.140	-11.742	162.106
506417.2	6843178.8	640	4320	+0.099	4814.339	979168.273	-42.974	48.966	-17.755	-11.763	158.671
506422.4	6843589.1	640	4360	+0.102	4815.487	979169.421	-41.545	46.870	-16.995	-11.670	151.879
507205.6	6834774.4	720	3480	+0.155	4812.595	979166.529	-50.472	44.299	-16.063	-22.236	143.547
507188.5	6835175.2	720	3520	+0.152	4814.082	979168.016	-48.710	43.190	-15.661	-21.181	139.956
507185.9	6835582.1	720	3560	+0.149	4813.759	979167.693	-48.754	44.031	-15.966	-20.689	142.679
507189.2	6836008.3	720	3600	+0.147	4813.747	979167.681	-48.474	44.673	-16.199	-20.000	144.761
507191.6	6836395.3	720	3640	+0.144	4812.894	979166.828	-49.062	46.326	-16.798	-19.534	150.118
507199.9	6836794.2	720	3680	+0.137	4813.217	979167.151	-48.466	46.241	-16.767	-18.992	149.841
507200.7	6837205.1	720	3720	+0.134	4813.239	979167.173	-48.163	46.177	-16.744	-18.729	149.635
507202.2	6837595.0	720	3760	+0.131	4813.606	979167.540	-47.528	46.403	-16.826	-17.952	150.365
507200.8	6838015.0	720	3800	+0.129	4814.019	979167.953	-46.828	46.774	-16.960	-17.014	151.567
507202.7	6838384.7	720	3840	+0.126	4813.726	979167.660	-46.868	47.822	-17.341	-16.386	154.965
507196.4	6838809.2	720	3880	+0.123	4812.598	979166.532	-47.705	49.652	-18.004	-16.057	160.895
507201.7	6839212.9	720	3920	+0.120	4813.130	979167.064	-46.897	49.314	-17.881	-15.464	159.799
507197.7	6839607.1	720	3960	+0.117	4812.392	979166.326	-47.365	50.691	-18.381	-15.055	164.261
507188.2	6840009.7	720	4000	+0.114	4810.564	979164.498	-48.917	53.401	-19.364	-14.879	173.044
507974.3	6834796.9	800	3480	+0.158	4813.073	979167.007	-49.978	42.420	-15.382	-22.940	137.458
508016.5	6835212.1	800	3520	+0.161	4812.531	979166.465	-50.235	44.677	-16.200	-21.759	144.772
508016.9	6835639.7	800	3560	+0.163	4812.933	979166.867	-49.541	45.756	-16.591	-20.376	148.269
508014.9	6836007.9	800	3600	+0.166	4814.091	979168.025	-48.130	44.545	-16.152	-19.738	144.345
508007.2	6836414.0	800	3640	+0.169	4814.474	979168.408	-47.469	44.700	-16.209	-18.977	144.849
508018.5	6836818.9	800	3680	+0.171	4813.661	979167.595	-48.005	45.800	-16.607	-18.812	148.413
508037.9	6837250.8	800	3720	+0.174	4812.449	979166.383	-48.921	46.740	-16.948	-19.129	151.458
507978.9	6837630.5	800	3760	+0.177	4810.742	979164.676	-50.368	49.320	-17.884	-18.931	159.819
507984.1	6838008.0	800	3800	+0.180	4810.565	979164.499	-50.286	50.000	-18.130	-18.417	162.021
507987.2	6838406.2	800	3840	+0.183	4810.388	979164.322	-50.191	50.880	-18.449	-17.760	164.875
507991.7	6838804.8	800	3880	+0.185	4810.450	979164.384	-49.856	51.126	-18.539	-17.268	165.671
507981.0	6839203.1	800	3920	+0.189	4810.719	979164.653	-49.314	51.344	-18.618	-16.588	166.377
507992.4	6839626.5	800	3960	+0.192	4810.647	979164.581	-49.096	52.081	-18.885	-15.900	168.766
507982.5	6840010.3	800	4000	+0.194	4810.384	979164.318	-49.096	52.950	-19.200	-15.346	171.581

MABEL CREEK GRAVITY SURVEY (AREA 2)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D96												
/ 528029.1	6806625.4		0	1102	+0.000	4845.890	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4		0	1102	+0.000	4845.890	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4		0	1102	+0.445	4845.890	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4		0	1102	+0.000	4845.445	979199.984	-36.339	35.477	-12.864	-13.727	114.960
530780.3	6805221.9	3080	520	+0.036	4847.371	979201.465	-35.821	32.107	-11.642	-15.356		104.041
530800.7	6805606.0	3080	560	+0.041	4847.021	979201.115	-35.906	33.400	-12.111	-14.617		108.230
530808.0	6805997.8	3080	600	+0.045	4847.390	979201.484	-35.267	32.129	-11.650	-14.788		104.112
530804.3	6806396.1	3080	640	+0.049	4846.939	979201.033	-35.444	31.454	-11.405	-15.395		101.926
530780.9	6806808.8	3080	680	+0.053	4846.388	979200.482	-35.710	30.564	-11.083	-16.229		99.040
530787.7	6807189.5	3080	720	+0.369	4845.984	979200.078	-35.852	30.292	-10.984	-16.544		98.160
530798.8	6807595.2	3080	760	+0.375	4844.995	979199.089	-36.561	30.733	-11.144	-16.973		99.587
530817.7	6807955.4	3080	800	+0.386	4844.816	979198.910	-36.492	29.973	-10.868	-17.387		97.127
530798.6	6808412.4	3080	840	+0.400	4843.700	979197.794	-37.293	30.827	-11.178	-17.644		99.894
531606.7	6805196.3	3160	520	+0.080	4846.110	979200.204	-37.098	31.522	-11.430	-17.006		102.146
531602.9	6805605.8	3160	560	+0.330	4845.745	979199.839	-37.181	31.576	-11.449	-17.055		102.319
531609.3	6806004.1	3160	600	+0.324	4845.859	979199.953	-36.792	30.744	-11.148	-17.196		99.624
531608.4	6806405.8	3160	640	+0.316	4845.531	979199.625	-36.844	30.454	-11.043	-17.432		98.686
531606.9	6806803.9	3160	680	+0.308	4845.048	979199.142	-37.052	30.336	-11.000	-17.716		98.301
531595.4	6807205.9	3160	720	+0.301	4844.636	979198.730	-37.187	30.210	-10.954	-17.931		97.894
531612.0	6807593.0	3160	760	+0.295	4844.305	979198.399	-37.251	30.035	-10.891	-18.107		97.326
531605.9	6807999.9	3160	800	+0.409	4843.189	979197.283	-38.087	31.177	-11.305	-18.215		101.026
531591.8	6808396.0	3160	840	+0.404	4843.244	979197.338	-37.759	30.933	-11.217	-18.042		100.238
532403.8	6805202.5	3240	520	+0.100	4844.915	979199.009	-38.287	33.001	-11.966	-17.253		106.937
532404.0	6805602.0	3240	560	+0.097	4844.757	979198.851	-38.170	32.716	-11.863	-17.317		106.015
532391.9	6805994.4	3240	600	+0.264	4845.474	979199.568	-37.182	31.044	-11.257	-17.395		100.595
532400.8	6806393.0	3240	640	+0.270	4845.265	979199.359	-37.117	30.564	-11.083	-17.635		99.042
532400.1	6806798.1	3240	680	+0.276	4844.866	979198.960	-37.237	30.110	-10.918	-18.045		97.570
532408.4	6807191.5	3240	720	+0.282	4844.342	979198.436	-37.490	29.907	-10.844	-18.427		96.911
533208.4	6805204.5	3320	520	+0.231	4846.156	979200.250	-37.043	30.962	-11.227	-17.309		100.329
533205.1	6805602.9	3320	560	+0.225	4845.525	979199.619	-37.400	31.034	-11.253	-17.619		100.565
533198.3	6805996.4	3320	600	+0.219	4845.114	979199.208	-37.540	30.479	-11.052	-18.113		98.764

533202.5	6806401.0	3320	640	+0.213	4844.673	979198.767	-37.702	30.318	-10.993	-18.377	98.243
533206.4	6806803.4	3320	680	+0.207	4844.402	979198.496	-37.695	30.066	-10.902	-18.531	97.428
533206.3	6807201.7	3320	720	+0.201	4844.166	979198.260	-37.657	29.971	-10.868	-18.553	97.120
533995.6	6805198.8	3400	520	+0.140	4845.945	979200.039	-37.257	30.814	-11.173	-17.616	99.850
534001.7	6805593.7	3400	560	+0.147	4845.257	979199.351	-37.673	30.258	-10.972	-18.386	98.049
534003.3	6805993.3	3400	600	+0.153	4844.748	979198.842	-37.906	30.137	-10.928	-18.697	97.658
533996.0	6806401.0	3400	640	+0.162	4844.542	979198.636	-37.831	30.074	-10.905	-18.662	97.453
533996.0	6806401.0	3400	640	+0.163	4844.538	979198.632	-37.835	30.074	-10.905	-18.666	97.453
533991.3	6806798.5	3400	680	+0.172	4844.437	979198.531	-37.662	29.965	-10.865	-18.563	97.099
533993.9	6807197.6	3400	720	+0.179	4844.239	979198.333	-37.585	30.068	-10.903	-18.420	97.435
533992.0	6807594.1	3400	760	+0.186	4844.231	979198.325	-37.320	29.901	-10.842	-18.261	96.891
/D97											
/ 528029.1	6806625.4	0	1102	+0.000	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4	0	1102	+0.000	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4	0	1102	+0.185	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/ 528029.1	6806625.4	0	1102	+0.000	4845.640	979199.984	-36.339	35.477	-12.864	-13.727	114.960
529199.0	6810097.6	2920	1010	+0.066	4844.376	979198.535	-35.394	30.674	-11.123	-15.843	99.398
529200.7	6810208.9	2920	1020	+0.068	4844.513	979198.672	-35.181	30.737	-11.145	-15.589	99.601
529201.4	6810301.6	2920	1030	+0.070	4844.650	979198.809	-34.980	30.794	-11.166	-15.352	99.787
529198.0	6810404.5	2920	1040	+0.072	4844.837	979198.996	-34.722	30.820	-11.175	-15.078	99.869
529202.3	6810500.6	2920	1050	+0.075	4845.100	979199.259	-34.393	30.800	-11.168	-14.761	99.806
529205.5	6810652.4	2920	1060	+0.082	4845.937	979200.096	-33.451	30.289	-10.983	-14.145	98.149
529195.1	6810700.7	2920	1070	+0.083	4846.043	979200.202	-33.312	30.354	-11.006	-13.965	98.359
529199.5	6810791.8	2920	1080	+0.084	4846.199	979200.358	-33.093	30.566	-11.083	-13.611	99.047
529203.3	6810893.8	2920	1090	+0.086	4846.416	979200.575	-32.806	30.741	-11.147	-13.212	99.615
529203.4	6810997.1	2920	1100	+0.087	4846.397	979200.556	-32.754	31.102	-11.278	-12.930	100.785
529194.3	6811103.8	2920	1110	+0.089	4846.204	979200.363	-32.874	31.619	-11.465	-12.720	102.461
529199.8	6811199.1	2920	1120	+0.090	4846.230	979200.389	-32.782	31.694	-11.493	-12.580	102.704
529201.8	6811291.9	2920	1130	+0.091	4846.281	979200.440	-32.667	31.640	-11.473	-12.500	102.526
529200.0	6811404.4	2920	1140	+0.093	4846.228	979200.387	-32.643	31.633	-11.470	-12.480	102.504
529200.1	6811503.0	2920	1150	+0.094	4846.029	979200.188	-32.774	31.707	-11.497	-12.564	102.746
529196.8	6811595.7	2920	1160	+0.096	4845.841	979200.000	-32.898	31.716	-11.500	-12.682	102.775
529200.6	6811692.9	2920	1170	+0.097	4845.592	979199.751	-33.080	31.727	-11.504	-12.857	102.809
529201.9	6811800.3	2920	1180	+0.098	4845.328	979199.487	-33.270	31.727	-11.504	-13.047	102.810
529202.3	6811900.3	2920	1190	+0.100	4845.075	979199.234	-33.454	31.657	-11.479	-13.276	102.584
529198.2	6812003.5	2920	1200	+0.101	4844.986	979199.145	-33.472	31.386	-11.381	-13.467	101.706
529189.3	6812102.6	2920	1210	+0.102	4844.857	979199.016	-33.533	31.287	-11.345	-13.591	101.383
529196.8	6812200.9	2920	1220	+0.104	4844.519	979198.678	-33.803	31.497	-11.421	-13.727	102.064
529205.7	6812300.4	2920	1230	+0.105	4844.225	979198.384	-34.029	31.608	-11.461	-13.882	102.423
529196.5	6812403.1	2920	1240	+0.107	4844.182	979198.341	-34.001	31.384	-11.380	-13.997	101.699
531606.0	6808000.2	3160	800	+0.030	4843.130	979197.289	-38.081	31.188	-11.309	-18.202	101.062
532402.2	6807601.9	3240	760	+0.034	4843.304	979197.463	-38.180	30.769	-11.157	-18.568	99.706
532401.9	6807990.5	3240	800	+0.041	4843.081	979197.240	-38.135	30.858	-11.189	-18.467	99.992
532397.8	6808405.8	3240	840	+0.044	4843.289	979197.448	-37.641	30.575	-11.087	-18.152	99.077
533210.3	6807613.7	3320	760	+0.053	4843.888	979198.047	-37.586	30.130	-10.925	-18.381	97.635
533183.3	6807975.3	3320	800	+0.050	4843.675	979197.834	-37.550	30.254	-10.970	-18.266	98.036
533206.8	6808394.7	3320	840	+0.047	4843.592	979197.751	-37.344	30.322	-10.995	-18.017	98.257
534005.8	6807985.3	3400	800	+0.056	4843.906	979198.065	-37.310	30.198	-10.950	-18.063	97.854
533925.6	6808355.0	3400	840	+0.059	4843.934	979198.093	-37.028	30.092	-10.911	-17.847	97.511

MABEL CREEK GRAVITY SURVEY (AREA 3)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D94												
/ 447101.6	6802482.0		0	1103	+0.000	4825.982	979180.265	-58.856	67.589	-24.508	-15.775	219.018
/ 447101.6	6802482.0		0	1103	+0.000	4825.982	979180.265	-58.856	67.589	-24.508	-15.775	219.018
/ 447101.6	6802482.0		0	1103	+0.002	4825.982	979180.265	-58.856	67.589	-24.508	-15.775	219.018
/ 447101.6	6802482.0		0	1103	+0.000	4825.980	979180.265	-58.856	67.589	-24.508	-15.775	219.018
/ 447664.0	6762526.7		0	1105	+0.000	4904.915	979259.198	-7.589	45.363	-16.449	21.325	146.995
/ 447664.0	6762526.7		0	1105	+0.000	4904.915	979259.198	-7.589	45.363	-16.449	21.325	146.995
/ 447664.0	6762526.7		0	1105	+0.000	4904.810	979259.093	-7.694	45.363	-16.449	21.220	146.995
/ 447664.0	6762526.7		0	1105	+0.000	4904.810	979259.093	-7.694	45.363	-16.449	21.220	146.995
446296.0	6800207.9		4630	20	+0.001	4828.646	979182.929	-57.758	63.138	-22.894	-17.514	204.594
446305.1	6800595.3		4630	60	+0.001	4828.466	979182.749	-57.671	64.335	-23.328	-16.664	208.474
446300.1	6801005.2		4630	100	+0.001	4828.296	979182.579	-57.558	64.798	-23.496	-16.256	209.975
446293.7	6801406.6		4630	140	+0.001	4827.581	979181.864	-57.996	65.111	-23.610	-16.494	210.989
446298.6	6801806.9		4630	180	+0.002	4826.992	979181.275	-58.309	65.282	-23.672	-16.698	211.544
446306.2	6802202.5		4630	220	+0.002	4825.807	979180.090	-59.221	65.948	-23.913	-17.186	213.701
446307.4	6802598.2		4630	260	+0.002	4825.147	979179.430	-59.608	66.210	-24.008	-17.406	214.551
446292.5	6799800.0		4630	9980	+0.001	4827.186	979181.469	-59.499	63.722	-23.106	-18.883	206.487
447912.4	6800192.1		4790	20	+0.001	4831.576	979185.859	-54.844	64.077	-23.235	-14.002	207.637
447905.3	6800602.8		4790	60	+0.001	4831.581	979185.864	-54.556	64.545	-23.404	-13.415	209.154
447905.9	6800989.3		4790	100	+0.001	4831.006	979185.289	-54.864	65.068	-23.594	-13.390	210.850
447903.9	6801389.2		4790	140	+0.001	4830.386	979184.669	-55.208	65.295	-23.676	-13.589	211.584
447919.1	6801804.9		4790	180	+0.001	4828.786	979183.069	-56.521	66.800	-24.222	-13.943	216.462
447903.2	6802191.7		4790	220	+0.001	4827.981	979182.264	-57.059	67.181	-24.360	-14.238	217.697
447887.6	6802606.2		4790	260	+0.002	4826.897	979181.180	-57.857	67.605	-24.514	-14.766	219.071
447906.1	6799796.2		4790	9980	+0.001	4830.791	979185.074	-55.902	63.335	-22.966	-15.533	205.233

MABEL CREEK GRAVITY SURVEY (AREA 4)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D92												
466102.8	6765192.1	0	1104	+0.000	4893.775	979247.750	-17.233	52.293	-18.962	16.098	169.452	
466102.8	6765192.1	0	1104	+0.000	4893.775	979247.750	-17.233	52.293	-18.962	16.098	169.452	
466102.8	6765192.1	0	1104	+0.107	4893.775	979247.750	-17.233	52.293	-18.962	16.098	169.452	
466102.8	6765192.1	0	1104	+0.000	4893.668	979247.750	-17.233	52.293	-18.962	16.098	169.452	
466102.8	6765192.1	0	1104	+0.030	4893.668	979247.750	-17.233	52.293	-18.962	16.098	169.452	
466102.8	6765192.1	0	1104	+0.000	4893.638	979247.750	-17.233	52.293	-18.962	16.098	169.452	
463493.8	6764785.1	6350	6480	+0.062	4890.397	979244.372	-20.889	50.032	-18.142	11.002	162.126	
463498.0	6765183.3	6350	6520	+0.060	4892.255	979246.230	-18.754	50.121	-18.174	13.193	162.414	
463489.2	6765592.8	6350	6560	+0.058	4891.063	979245.038	-19.662	52.880	-19.175	14.044	171.356	
463500.8	6765988.7	6350	6600	+0.055	4891.115	979245.090	-19.335	52.863	-19.168	14.360	171.300	
463490.2	6766391.1	6350	6640	+0.053	4891.313	979245.288	-18.857	52.464	-19.024	14.583	170.006	
464308.1	6764801.9	6430	6480	+0.065	4892.905	979246.880	-18.371	50.543	-18.327	13.845	163.781	
464302.1	6765004.6	6430	6500	+0.068	4893.863	979247.838	-17.272	50.323	-18.247	14.804	163.068	
464302.0	6765209.0	6430	6520	+0.070	4895.015	979248.990	-15.978	50.087	-18.162	15.947	162.303	
464307.1	6765404.9	6430	6540	+0.072	4895.807	979249.782	-15.050	50.259	-18.224	16.985	162.862	
464297.3	6765603.5	6430	6560	+0.074	4896.389	979250.364	-14.330	50.406	-18.277	17.799	163.337	
464290.9	6765815.9	6430	6580	+0.076	4896.121	979250.096	-14.450	50.750	-18.402	17.898	164.453	
464299.6	6766012.0	6430	6600	+0.077	4894.322	979248.297	-16.113	50.878	-18.449	16.317	164.868	
464299.5	6766199.5	6430	6620	+0.079	4892.924	979246.899	-17.381	51.473	-18.664	15.428	166.794	
464302.8	6766410.7	6430	6640	+0.081	4893.446	979247.421	-16.712	51.230	-18.576	15.942	166.007	
464294.7	6766606.3	6430	6660	+0.083	4894.478	979248.453	-15.544	50.604	-18.349	16.711	163.979	
465106.4	6764583.3	6510	6460	+0.104	4895.089	979249.064	-16.340	48.629	-17.633	14.656	157.579	
465105.3	6764784.8	6510	6480	+0.102	4894.917	979248.892	-16.372	48.769	-17.684	14.713	158.032	
465097.5	6764997.4	6510	6500	+0.100	4895.065	979249.040	-16.077	48.921	-17.739	15.106	158.527	
465095.4	6765184.2	6510	6520	+0.099	4895.524	979249.499	-15.488	48.990	-17.764	15.738	158.750	
465102.7	6765389.8	6510	6540	+0.097	4896.057	979250.032	-14.812	49.213	-17.845	16.556	159.471	
465099.8	6765594.5	6510	6560	+0.095	4896.250	979250.225	-14.477	49.434	-17.925	17.032	160.189	
465093.6	6765793.0	6510	6580	+0.094	4896.324	979250.299	-14.265	49.601	-17.986	17.351	160.729	
465104.2	6765993.3	6510	6600	+0.092	4895.532	979249.507	-14.918	49.918	-18.101	16.900	161.757	
465101.3	6766192.5	6510	6620	+0.090	4892.285	979246.260	-18.026	52.463	-19.023	15.413	170.003	
465100.4	6766388.1	6510	6640	+0.088	4892.033	979246.008	-18.142	52.158	-18.913	15.103	169.014	
465104.6	6766600.4	6510	6660	+0.087	4892.252	979246.227	-17.776	52.454	-19.020	15.658	169.975	
466695.7	6764591.8	6670	6460	+0.029	4894.874	979248.956	-16.446	49.399	-17.912	15.041	160.074	
466709.9	6764795.8	6670	6480	+0.028	4893.773	979247.855	-17.405	50.174	-18.193	14.576	162.587	
466701.2	6765002.8	6670	6500	+0.028	4893.033	979247.115	-18.001	51.191	-18.562	14.628	165.882	
466706.7	6765176.6	6670	6520	+0.027	4893.052	979247.134	-17.861	51.340	-18.616	14.862	166.363	
466692.8	6765393.4	6670	6540	+0.027	4893.372	979247.454	-17.391	51.919	-18.826	15.702	168.239	
466701.0	6765588.0	6670	6560	+0.027	4893.942	979248.024	-16.686	52.384	-18.995	16.704	169.747	
466697.0	6765789.5	6670	6580	+0.026	4893.436	979247.518	-17.052	52.779	-19.138	16.589	171.026	
466703.5	6765996.4	6670	6600	+0.026	4891.826	979245.908	-18.518	53.765	-19.495	15.751	174.221	
466705.5	6766191.3	6670	6620	+0.025	4892.255	979246.337	-17.954	53.125	-19.264	15.908	172.150	
466689.8	6766390.6	6670	6640	+0.025	4893.285	979247.367	-16.785	51.727	-18.757	16.186	167.619	
467501.2	6764404.3	6750	6440	+0.019	4892.484	979246.566	-18.968	51.386	-18.633	13.786	166.514	
467499.3	6764596.1	6750	6460	+0.020	4893.500	979247.582	-17.818	50.437	-18.289	14.330	163.438	
467502.2	6764804.5	6750	6480	+0.021	4894.696	979248.778	-16.478	50.124	-18.175	15.471	162.424	
467502.3	6765011.8	6750	6500	+0.021	4894.601	979248.683	-16.429	50.457	-18.296	15.733	163.503	
467499.9	6765202.5	6750	6520	+0.022	4894.482	979248.564	-16.415	50.442	-18.290	15.736	163.453	
467492.8	6765404.1	6750	6540	+0.022	4893.492	979247.574	-17.265	51.075	-18.520	15.290	165.506	
467497.3	6765607.4	6750	6560	+0.023	4892.868	979246.950	-17.748	51.172	-18.555	14.869	165.819	
467491.8	6765806.3	6750	6580	+0.024	4892.114	979246.196	-18.364	51.356	-18.622	14.371	166.416	
467498.8	6766011.8	6750	6600	+0.024	4891.914	979245.996	-18.421	51.520	-18.681	14.418	166.947	

MABEL CREEK GRAVITY SURVEY (AREA 5)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D93												
/ 447664.0	6762526.7	0	1105	+0.000	4905.152	979259.180	-7.607	45.165	-16.377	21.180	146.353	
/ 447664.0	6762526.7	0	1105	+0.000	4905.152	979259.180	-7.607	45.165	-16.377	21.180	146.353	
/ 447664.0	6762526.7	0	1105	+0.320	4905.152	979259.180	-7.607	45.165	-16.377	21.180	146.353	
/ 447664.0	6762526.7	0	1105	+0.000	4904.832	979259.180	-7.607	45.165	-16.377	21.180	146.353	
444701.8	6758994.3	4470	5900	+0.256	4891.096	979245.124	-24.110	44.542	-16.151	4.281	144.337	
444725.3	6759403.2	4470	5940	+0.258	4892.553	979246.581	-22.369	44.723	-16.217	6.138	144.923	
444687.4	6759806.1	4470	5980	+0.261	4893.336	979247.364	-21.305	44.962	-16.303	7.354	145.697	
444691.5	6760203.6	4470	6020	+0.264	4894.509	979248.537	-19.856	44.799	-16.244	8.699	145.167	
444700.3	6760604.7	4470	6060	+0.266	4895.536	979249.564	-18.550	44.847	-16.262	10.035	145.323	
444699.4	6761001.0	4470	6100	+0.269	4896.424	979250.452	-17.386	44.934	-16.293	11.255	145.606	
444687.9	6761402.2	4470	6140	+0.272	4896.907	979250.935	-16.624	44.987	-16.313	12.051	145.779	
445504.3	6758999.4	4550	5900	+0.252	4889.402	979243.430	-25.803	43.614	-15.814	1.996	141.327	
445502.9	6759396.0	4550	5940	+0.249	4890.529	979244.557	-24.400	44.134	-16.003	3.731	143.013	
445508.5	6759791.3	4550	5980	+0.247	4891.672	979245.700	-22.982	44.120	-15.998	5.140	142.969	
445490.1	6760191.7	4550	6020	+0.244	4892.729	979246.757	-21.647	44.096	-15.989	6.460	142.890	
445495.1	6760585.5	4550	6060	+0.241	4893.626	979247.654	-20.476	44.372	-16.090	7.807	143.786	
445509.0	6761007.1	4550	6100	+0.238	4894.888	979248.916	-18.921	44.311	-16.067	9.323	143.586	
445511.7	6761382.4	4550	6140	+0.236	4895.796	979249.824	-17.752	44.803	-16.246	10.806	145.183	
446292.9	6758992.1	4630	5900	+0.216	4887.406	979241.434	-27.807	44.191	-16.024	0.360	143.197	
446298.0	6759395.5	4630	5940	+0.219	4889.409	979243.437	-25.523	43.917	-15.924	2.469	142.310	
446299.8	6759807.6	4630	5980	+0.221	4890.921	979244.949	-23.725	44.359	-16.085	4.550	143.743	

446308.8	6760200.3	4630	6020	+0.224	4893.004	979247.032	-21.368	44.271	-16.053	6.850	143.458
446315.0	6760015.6	4630	6060	+0.226	4895.851	979249.879	-18.233	44.310	-16.067	10.010	143.584
446300.4	6760983.0	4630	6100	+0.229	4898.184	979252.212	-15.644	44.524	-16.144	12.735	144.276
446302.3	6761425.8	4630	6140	+0.232	4901.532	979255.560	-11.988	44.484	-16.130	16.366	144.148
447095.7	6759000.1	4710	5900	+0.213	4886.408	979240.436	-28.802	44.172	-16.017	-0.647	143.136
447107.2	6759392.5	4710	5940	+0.211	4889.381	979243.409	-25.556	43.819	-15.889	2.374	141.993
447109.1	6759796.5	4710	5980	+0.209	4891.979	979246.007	-22.677	44.014	-15.960	5.377	142.624
447111.7	6760185.7	4710	6020	+0.207	4895.007	979249.035	-19.378	44.163	-16.014	8.771	143.109
447103.6	6760598.8	4710	6060	+0.204	4898.839	979252.867	-15.259	44.464	-16.123	13.082	144.084
447111.4	6761007.9	4710	6100	+0.201	4902.696	979256.724	-11.117	44.660	-16.194	17.349	144.719
447094.2	6761382.5	4710	6140	+0.193	4902.618	979256.646	-10.935	44.514	-16.141	17.438	144.246
447894.8	6759015.7	4790	5900	+0.171	4886.626	979240.654	-28.575	43.986	-15.950	-0.539	142.535
447893.0	6759402.9	4790	5940	+0.174	4889.319	979243.347	-25.613	44.088	-15.986	2.488	142.864
447921.4	6759818.6	4790	5980	+0.177	4892.397	979246.425	-22.246	44.243	-16.043	5.955	143.368
447925.0	6760257.7	4790	6020	+0.180	4894.110	979248.138	-20.228	44.269	-16.052	7.989	143.451
447897.0	6760623.2	4790	6060	+0.183	4896.213	979250.241	-17.870	44.299	-16.063	10.366	143.549
447896.6	6761020.9	4790	6100	+0.186	4899.566	979253.594	-14.241	44.484	-16.130	14.113	144.147
447917.1	6761403.0	4790	6140	+0.188	4901.788	979255.816	-11.753	44.615	-16.178	16.684	144.573
448706.5	6758997.3	4870	5900	+0.167	4885.692	979239.720	-29.525	44.216	-16.033	-1.342	143.278
448692.9	6759402.3	4870	5940	+0.164	4888.014	979242.042	-26.921	44.113	-15.996	1.196	142.945
448692.8	6759788.1	4870	5980	+0.162	4890.327	979244.355	-24.340	44.138	-16.004	3.793	143.025
448676.3	6760200.1	4870	6020	+0.160	4892.315	979246.343	-22.065	44.138	-16.004	6.068	143.025
448696.7	6760601.3	4870	6060	+0.157	4894.182	979248.210	-19.919	45.055	-16.337	8.799	145.997
448705.7	6760999.0	4870	6100	+0.154	4896.564	979250.592	-17.261	44.984	-16.312	11.412	145.769
448702.2	6761396.8	4870	6140	+0.152	4898.927	979252.955	-14.621	45.681	-16.564	14.496	148.027
448686.3	6761802.7	4870	6180	+0.310	4901.155	979255.183	-12.111	45.477	-16.490	16.876	147.365
448708.9	6762201.6	4870	6220	+0.308	4901.433	979255.461	-11.556	44.887	-16.276	17.055	145.455
448716.3	6762585.5	4870	6260	+0.306	4901.321	979255.349	-11.401	44.818	-16.251	17.166	145.229
448706.9	6763001.7	4870	6300	+0.304	4900.559	979254.587	-11.874	45.041	-16.332	16.836	145.953
448713.0	6763382.9	4870	6340	+0.302	4900.182	979254.210	-11.986	45.196	-16.388	16.822	146.455
448729.6	6763817.0	4870	6380	+0.300	4899.630	979253.658	-12.236	45.375	-16.453	16.686	147.034
449495.9	6758999.1	4950	5900	+0.127	4885.217	979239.245	-30.001	43.488	-15.769	-2.282	140.920
449488.8	6759399.6	4950	5940	+0.130	4887.270	979241.298	-27.669	43.904	-15.920	0.315	142.269
449515.6	6759798.6	4950	5980	+0.132	4889.212	979243.240	-25.450	44.065	-15.978	2.637	142.789
449499.3	6760196.3	4950	6020	+0.135	4891.810	979245.838	-22.575	43.668	-15.834	5.258	141.504
449494.3	6760612.1	4950	6060	+0.138	4892.813	979246.841	-21.283	44.013	-15.959	6.771	142.622
449492.0	6760997.7	4950	6100	+0.142	4894.607	979248.635	-19.221	44.254	-16.047	8.986	143.401
449528.2	6761395.1	4950	6140	+0.145	4896.355	979250.383	-17.197	44.095	-15.989	10.909	142.888
449508.1	6761802.9	4950	6180	+0.282	4897.252	979251.280	-16.016	44.210	-16.031	12.163	143.261
449500.6	6762198.2	4950	6220	+0.285	4897.585	979251.613	-15.408	44.793	-16.242	13.143	145.149
449515.6	6762593.7	4950	6260	+0.287	4898.152	979252.180	-14.567	44.602	-16.173	13.863	144.531
449491.8	6762991.6	4950	6300	+0.290	4898.585	979252.613	-13.857	44.586	-16.167	14.562	144.479
449512.7	6763400.3	4950	6340	+0.293	4898.043	979252.071	-14.115	44.949	-16.299	14.536	145.656
449500.8	6763808.5	4950	6380	+0.295	4898.130	979252.158	-13.744	45.092	-16.351	14.997	146.118
450308.5	6759008.3	5030	5900	+0.121	4883.336	979237.364	-31.878	43.598	-15.809	-4.089	141.277
450313.6	6759403.8	5030	5940	+0.118	4885.423	979239.451	-29.516	43.786	-15.877	-1.607	141.885
450294.4	6759786.8	5030	5980	+0.115	4887.280	979241.308	-27.393	43.724	-15.855	0.477	141.685
450307.3	6760198.1	5030	6020	+0.113	4889.198	979243.226	-25.189	43.990	-15.951	2.850	142.546
450298.8	6760596.6	5030	6060	+0.110	4890.985	979245.013	-23.124	44.309	-16.067	5.118	143.581
450304.7	6761005.8	5030	6100	+0.108	4891.073	979245.101	-22.752	46.161	-16.738	6.671	149.583
450312.2	6761394.8	5030	6140	+0.105	4893.085	979247.113	-20.469	45.146	-16.370	8.307	146.294
450318.7	6761783.0	5030	6180	+0.103	4895.463	979249.491	-17.822	45.282	-16.419	11.041	146.733
450316.8	6762201.8	5030	6220	+0.100	4896.260	979250.288	-16.733	45.501	-16.499	12.269	147.444
450301.8	6762602.1	5030	6260	+0.097	4896.242	979250.270	-16.473	46.199	-16.752	12.974	149.704
450323.3	6762995.2	5030	6300	+0.094	4896.329	979250.357	-16.113	45.751	-16.589	13.048	148.253
450319.8	6763399.1	5030	6340	+0.091	4896.386	979250.414	-15.775	45.164	-16.377	13.012	146.352
450281.7	6763780.0	5030	6380	+0.088	4896.918	979250.946	-14.978	45.141	-16.368	13.794	146.277
451900.9	6760600.6	5190	6060	+0.049	4887.549	979241.577	-26.562	44.547	-16.153	1.832	144.351
451905.2	6760996.2	5190	6100	+0.051	4888.216	979242.244	-25.620	44.858	-16.266	2.972	145.361
451897.7	6761402.1	5190	6140	+0.054	4890.574	979244.602	-22.980	45.028	-16.328	5.721	145.912
451880.5	6761803.4	5190	6180	+0.057	4893.347	979247.375	-19.928	44.946	-16.298	8.721	145.646
451926.3	6762196.7	5190	6220	+0.060	4894.180	979248.208	-18.822	45.737	-16.585	10.331	148.209
451895.3	6762605.1	5190	6260	+0.066	4893.626	979247.654	-19.092	45.865	-16.631	10.142	148.622
451908.8	6763017.3	5190	6300	+0.069	4893.754	979247.782	-18.677	45.746	-16.588	10.481	148.237
451903.8	6763390.4	5190	6340	+0.071	4895.066	979249.094	-17.106	44.858	-16.266	11.487	145.360
451907.4	6763802.7	5190	6380	+0.075	4894.590	979248.618	-17.296	44.900	-16.281	11.324	145.497
/D94											
/ 447101.6	6802482.0	0	1103	+0.000	4825.982	979180.352	-58.769	67.589	-24.508	-15.688	219.018
/ 447101.6	6802482.0	0	1103	+0.000	4825.982	979180.352	-58.769	67.589	-24.508	-15.688	219.018
/ 447101.6	6802482.0	0	1103	+0.000	4825.980	979180.350	-58.771	67.589	-24.508	-15.690	219.018
/ 447101.6	6802482.0	0	1103	+0.000	4825.980	979180.350	-58.771	67.589	-24.508	-15.690	219.018
/ 447664.0	6762526.7	0	1105	+0.000	4904.915	979259.180	-7.607	45.165	-16.377	21.180	146.353
/ 447664.0	6762526.7	0	1105	+0.000	4904.915	979259.180	-7.607	45.165	-16.377	21.180	146.353
/ 447664.0	6762526.7	0	1105	+0.105	4904.915	979259.180	-7.607	45.165	-16.377	21.180	146.353
/ 447664.0	6762526.7	0	1105	+0.000	4904.810	979259.180	-7.607	45.165	-16.377	21.180	146.353
444701.3	6761793.2	4470	6180	+0.060	4897.095	979251.360	-15.928	45.361	-16.448	12.986	146.991
444700.5	6762191.8	4470	6220	+0.059	4897.819	979252.084	-14.926	45.648	-16.552	14.170	147.921
444710.3	6762605.5	4470	6260	+0.057	4897.247	979251.512	-15.211	46.143	-16.732	14.200	149.523
444693.6	6762982.1	4470	6300	+0.055	4895.740	979250.005	-16.456	46.952	-17.025	13.471	152.146
444701.3	6763383.8	4470	6340	+0.053	4895.513	979249.778	-16.404	47.918	-17.375	14.139	155.274
444708.9	6763795.4	4470	6380	+0.051	4895.991	979250.256	-15.640	49.146	-17.821	15.686	159.256
445507.3	6761799.9	4550	6180	+0.063	4896.913	979251.178	-16.107	44.707	-16.211	12.389	144.872
445492.5	6762203.2	4550	6220	+0.065	4897.525	979251.790	-15.215	44.766	-16.232	13.318	145.060
445491.1	6762613.1	4550	6260	+0.066	4897.876	979252.141	-14.579	45.021	-16.325	14.117	145.887
445496.1	6763021.1	4550	6300	+0.068	4898.363	979252.628	-13.809	45.846	-16.624	15.413	148.560
445494.9	6763410.5	4550	6340	+0.070	4899.520	979253.785	-12.381	46.197	-16.751		

447107.5	6762605.4	4710	6260	+0.087	4905.162	979259.427	-7.304	45.257	-16.410	21.543	146.652
447098.0	6762976.0	4710	6300	+0.089	4904.229	979258.494	-7.979	45.264	-16.413	20.872	146.675
447109.7	6763400.4	4710	6340	+0.091	4902.341	979256.606	-9.572	45.373	-16.452	19.348	147.027
447090.4	6763806.8	4710	6380	+0.092	4902.057	979256.322	-9.574	45.591	-16.532	19.486	147.735
448729.5	6763817.0	4870	6380	+0.042	4899.407	979253.672	-12.222	45.370	-16.451	16.697	147.020
450316.6	6762201.6	5030	6220	+0.047	4896.052	979250.317	-16.705	45.501	-16.499	12.297	147.442
446313.6	6761806.7	4630	6180	+0.082	4900.987	979255.252	-12.031	44.583	-16.166	16.386	144.468
446298.4	6762198.4	4630	6220	+0.080	4900.520	979254.785	-12.226	44.945	-16.297	16.421	145.640
446308.7	6762588.6	4630	6260	+0.079	4902.164	979256.429	-10.311	45.042	-16.332	18.398	145.955
446298.0	6762991.4	4630	6300	+0.077	4902.072	979256.337	-10.123	45.136	-16.366	18.646	146.260
446294.2	6763389.1	4630	6340	+0.076	4901.876	979256.141	-10.043	45.294	-16.424	18.827	146.771
446309.2	6763801.4	4630	6380	+0.074	4902.594	979256.859	-9.038	45.492	-16.495	19.958	147.413
447890.4	6761787.0	4790	6180	+0.103	4901.688	979255.953	-11.349	44.763	-16.231	17.183	145.052
447876.4	6762181.2	4790	6220	+0.101	4903.306	979257.571	-9.457	45.076	-16.345	19.274	146.065
447908.2	6762589.8	4790	6260	+0.100	4904.230	979258.495	-8.249	45.247	-16.407	20.591	146.619
447899.6	6762979.8	4790	6300	+0.098	4902.718	979256.983	-9.490	45.451	-16.481	19.480	147.281
447894.4	6763394.2	4790	6340	+0.096	4901.486	979255.751	-10.434	45.467	-16.486	18.546	147.332
447890.8	6763790.2	4790	6380	+0.094	4901.179	979255.444	-10.466	45.476	-16.490	18.520	147.362

MABEL CREEK GRAVITY SURVEY (AREA 6)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D95												
/	504736.8	6748108.5	0	1106	+0.000	4878.307	979232.365	-44.541	63.488	-23.021	-4.075	205.728
/	504736.8	6748108.5	0	1106	+0.000	4878.307	979232.365	-44.541	63.488	-23.021	-4.075	205.728
/	504736.8	6748108.5	0	1106	+0.200	4878.307	979232.365	-44.541	63.488	-23.021	-4.075	205.728
/	504736.8	6748108.5	0	1106	+0.000	4878.107	979232.365	-44.541	63.488	-23.021	-4.075	205.728
/	502321.6	6747973.7	230	4800	+0.053	4882.283	979236.341	-40.660	56.933	-20.644	-4.371	184.487
/	502330.6	6748187.8	230	4820	+0.052	4882.962	979237.020	-39.832	56.657	-20.544	-3.718	183.595
/	502306.4	6748381.3	230	4840	+0.050	4884.160	979238.218	-38.499	56.277	-20.406	-2.628	182.363
/	502304.0	6748575.5	230	4860	+0.047	4884.217	979238.275	-38.306	56.421	-20.459	-2.344	182.830
/	502308.2	6748774.9	230	4880	+0.045	4884.580	979238.638	-37.804	55.906	-20.272	-2.170	181.160
/	502306.7	6748980.1	230	4900	+0.043	4884.998	979239.056	-37.243	55.399	-20.088	-1.932	179.518
/	502309.5	6749185.8	230	4920	+0.042	4885.392	979239.450	-36.706	55.222	-20.024	-1.508	178.942
/	502894.7	6749175.1	290	4920	+0.068	4885.953	979240.011	-36.152	55.183	-20.009	-0.979	178.816
/	503110.4	6747983.3	310	4800	+0.056	4881.606	979235.664	-41.330	58.337	-21.153	-4.147	189.037
/	503107.1	6748189.9	310	4820	+0.058	4882.908	979236.966	-39.884	57.672	-20.912	-3.124	186.882
/	503111.9	6748384.9	310	4840	+0.059	4884.324	979238.382	-38.332	57.328	-20.787	-1.791	185.769
/	503116.2	6748588.3	310	4860	+0.061	4886.831	979240.889	-35.683	56.549	-20.505	0.361	183.244
/	503116.3	6748778.5	310	4880	+0.062	4886.697	979240.755	-35.685	55.870	-20.259	-0.074	181.042
/	503110.6	6748983.0	310	4900	+0.065	4886.205	979240.263	-36.034	55.250	-20.034	-0.818	179.034
/	503120.2	6749189.7	310	4920	+0.066	4886.196	979240.254	-35.899	54.814	-19.876	-0.961	177.623
/	503510.2	6747981.6	350	4800	+0.086	4881.686	979235.744	-41.251	58.739	-21.299	-3.811	190.340
/	503505.5	6748081.8	350	4810	+0.085	4882.230	979236.288	-40.637	58.296	-21.139	-3.479	188.906
/	503500.8	6748185.6	350	4820	+0.084	4883.209	979237.267	-39.586	57.856	-20.979	-2.709	187.479
/	503506.7	6748280.8	350	4830	+0.083	4884.013	979238.071	-38.716	57.474	-20.840	-2.082	186.242
/	503509.5	6748376.5	350	4840	+0.082	4884.707	979238.765	-37.955	57.103	-20.706	-1.558	185.040
/	503503.6	6748490.2	350	4850	+0.081	4886.366	979240.424	-36.217	56.679	-20.552	-0.089	183.666
/	503509.9	6748580.7	350	4860	+0.080	4887.370	979241.428	-35.150	56.391	-20.448	0.794	182.733
/	503505.9	6748684.9	350	4870	+0.079	4887.789	979241.847	-34.658	56.056	-20.326	1.072	181.645
/	503507.7	6748786.2	350	4880	+0.078	4887.048	979241.106	-35.328	55.768	-20.222	0.218	180.714
/	503507.4	6748884.0	350	4890	+0.076	4886.491	979240.549	-35.817	55.532	-20.136	-0.422	179.947
/	503507.9	6748976.5	350	4900	+0.075	4886.430	979240.488	-35.814	55.309	-20.055	-0.560	179.227
/	503508.3	6749079.7	350	4910	+0.074	4886.729	979240.787	-35.443	55.038	-19.957	-0.362	178.346
/	503504.9	6749179.2	350	4920	+0.073	4886.868	979240.926	-35.234	54.804	-19.872	-0.303	177.589
/	503507.7	6749275.2	350	4930	+0.072	4886.842	979240.900	-35.194	54.564	-19.785	-0.415	176.812
/	503511.8	6749377.2	350	4940	+0.070	4886.805	979240.863	-35.159	54.305	-19.691	-0.545	175.973
/	503905.9	6748179.7	390	4820	+0.089	4882.779	979236.837	-40.020	58.364	-21.163	-2.819	189.125
/	503917.0	6748381.6	390	4840	+0.091	4884.611	979238.669	-38.047	56.970	-20.658	-1.735	184.608
/	503911.1	6748576.6	390	4860	+0.093	4886.698	979240.756	-35.824	56.279	-20.407	0.048	182.368
/	503913.3	6748787.1	390	4880	+0.094	4887.464	979241.522	-34.912	55.615	-20.166	0.537	180.218
/	503903.4	6748985.4	390	4900	+0.096	4887.016	979241.074	-35.221	55.367	-20.076	0.069	179.413
/	503907.1	6749172.9	390	4920	+0.097	4886.802	979240.860	-35.305	54.843	-19.886	-0.348	177.715
/	503919.5	6749383.0	390	4940	+0.098	4887.293	979241.351	-34.667	54.152	-19.636	-0.151	175.475
/	503906.5	6749581.1	390	4960	+0.099	4887.914	979241.972	-33.908	53.445	-19.379	0.157	173.185
/	504708.6	6748591.8	470	4860	+0.115	4884.525	979238.583	-37.987	56.332	-20.426	-2.081	182.539
/	504710.5	6748769.8	470	4880	+0.114	4885.714	979239.772	-36.673	55.625	-20.170	-1.219	180.248
/	504710.9	6748978.4	470	4900	+0.112	4887.467	979241.525	-34.775	55.198	-20.015	0.408	178.865
/	504706.0	6749187.7	470	4920	+0.111	4889.631	979243.689	-32.465	54.151	-19.635	2.050	175.472
/	504707.2	6749375.8	470	4940	+0.110	4890.710	979244.768	-31.255	53.509	-19.403	2.851	173.392
/	504720.7	6749591.1	470	4960	+0.109	4890.519	979244.577	-31.296	52.901	-19.182	2.423	171.421
/	504690.5	6749782.0	470	4980	+0.107	4890.687	979244.745	-30.995	52.237	-18.941	2.301	169.271
/	504710.8	6749965.1	470	5000	+0.106	4889.896	979243.954	-31.658	51.985	-18.850	1.476	168.453
/	504689.3	6750171.6	470	5020	+0.104	4888.754	979242.812	-32.657	51.682	-18.740	0.286	167.474
/	504723.8	6750391.2	470	5040	+0.103	4888.863	979242.921	-32.395	51.367	-18.626	0.347	166.452
/	505525.2	6748994.4	550	4900	+0.118	4887.718	979241.776	-34.513	53.815	-19.514	-0.211	174.385
/	505501.3	6749188.7	550	4920	+0.119	4888.674	979242.732	-33.421	53.218	-19.297	0.500	172.451
/	505508.7	6749373.7	550	4940	+0.121	4889.251	979243.309	-32.715	52.794	-19.143	0.936	171.077
/	505505.3	6749593.9	550	4960	+0.122	4890.502	979244.560	-31.311	52.291	-18.961	2.019	169.446
/	505501.2	6749775.5	550	4980	+0.123	4890.558	979244.616	-31.128	51.899	-18.819	1.952	168.176
/	505504.3	6749978.0	550	5000	+0.125	4890.175	979244.233	-31.370	51.483	-18.668	1.445	166.829
/	505497.3	6750188.4	550	5020	+0.126	4890.651	979244.709	-30.748	51.191	-18.562	1.882	165.883
/	505493.6	6750381.9	550	5040	+0.128	4891.083	979245.141	-30.181	50.970	-18.482	2.307	165.164
/	505502.6	6750575.4	550	5060	+0.129	4890.104	979244.162	-31.025	50.571	-18.337	1.209	163.871
/	507794.2	6750176.1	780	5020	+0.135	4891.170	979245.228	-30.236	49.181	-17.833	1.112	159.367

507804.9	6750384.6	780	5040	+0.137	4891.097	979245.155	-30.164	48.982	-17.761	1.057	158.723
507803.9	6750576.8	780	5060	+0.139	4890.429	979244.487	-30.698	49.389	-17.999	0.782	160.041
507806.8	6750778.8	780	5080	+0.140	4890.375	979244.433	-30.611	49.577	-17.977	0.989	160.651
507802.1	6750993.1	780	5100	+0.142	4890.927	979244.985	-29.910	49.538	-17.963	1.666	160.526
507820.2	6751177.0	780	5120	+0.143	4890.878	979244.936	-29.831	49.130	-17.815	1.484	159.202
507799.2	6751380.2	780	5140	+0.144	4891.159	979245.217	-29.408	48.408	-17.553	1.447	156.862
507800.8	6751575.9	780	5160	+0.145	4890.875	979244.933	-29.556	48.252	-17.497	1.200	156.359
507805.7	6751799.8	780	5180	+0.147	4889.712	979243.770	-30.563	48.196	-17.476	0.157	156.176
507809.8	6751979.2	780	5200	+0.148	4889.318	979243.376	-30.832	48.209	-17.481	-0.104	156.218
507807.2	6752175.5	780	5220	+0.149	4888.814	979242.872	-31.199	48.406	-17.552	-0.346	156.856
507812.2	6752393.7	780	5240	+0.151	4888.386	979242.444	-31.475	48.169	-17.466	-0.772	156.090
507813.2	6752581.7	780	5260	+0.152	4887.782	979241.840	-31.948	48.045	-17.421	-1.325	155.686
507808.2	6752784.1	780	5280	+0.153	4887.523	979241.581	-32.067	47.694	-17.294	-1.667	154.548
507802.5	6752977.9	780	5300	+0.155	4886.935	979240.993	-32.519	47.336	-17.164	-2.348	153.388
508812.7	6750167.1	880	5020	+0.189	4890.424	979244.482	-30.988	48.130	-17.452	-0.310	155.962
508808.1	6750377.3	880	5040	+0.187	4890.092	979244.150	-31.174	47.937	-17.382	-0.619	155.338
508791.6	6750578.3	880	5060	+0.185	4889.920	979243.978	-31.205	47.830	-17.343	-0.719	154.991
508821.0	6750781.0	880	5080	+0.183	4889.963	979244.021	-31.021	47.866	-17.356	-0.512	155.106
508810.8	6750963.9	880	5100	+0.182	4889.902	979243.960	-30.955	48.147	-17.458	-0.266	156.019
508813.1	6751172.3	880	5120	+0.180	4890.850	979244.908	-29.862	48.025	-17.414	0.749	155.621
508808.1	6751379.4	880	5140	+0.179	4891.289	979245.347	-29.278	47.845	-17.349	1.218	155.039
508814.1	6751584.9	880	5160	+0.177	4890.927	979244.985	-29.497	48.063	-17.428	1.138	155.744
508810.3	6751774.8	880	5180	+0.176	4890.466	979244.524	-29.826	48.199	-17.477	0.896	156.187
508816.0	6751973.4	880	5200	+0.174	4890.244	979244.302	-29.910	47.868	-17.357	0.601	155.113
508812.9	6752168.5	880	5220	+0.172	4890.862	979244.920	-29.156	47.453	-17.207	1.091	153.770
508799.1	6752372.3	880	5240	+0.171	4890.526	979244.584	-29.350	47.113	-17.083	0.680	152.667
508809.3	6752573.5	880	5260	+0.169	4889.609	979243.667	-30.127	47.026	-17.052	-0.152	152.385
508807.1	6752774.7	880	5280	+0.167	4888.382	979242.440	-31.213	47.165	-17.102	-1.150	152.837
508826.7	6752971.3	880	5300	+0.166	4887.586	979241.644	-31.873	47.176	-17.106	-1.803	152.870
508822.1	6753173.2	880	5320	+0.164	4886.974	979241.032	-32.344	47.151	-17.097	-2.290	152.789

MABEL CREEK GRAVITY SURVEY (AREA WE)

/	COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/	E	N	x	y		meter	mgal		corr'n	corr'n	anom	(AHD)
/D97												
/	528029.1	6806625.4	0	1102	+0.000	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/	528029.1	6806625.4	0	1102	+0.000	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/	528029.1	6806625.4	0	1102	+0.185	4845.825	979199.984	-36.339	35.477	-12.864	-13.727	114.960
/	528029.1	6806625.4	0	1102	+0.000	4845.640	979199.984	-36.339	35.477	-12.864	-13.727	114.960
	526301.5	6815803.3	1580	2630	+0.117	4835.062	979189.221	-40.786	33.295	-12.073	-19.564	107.892
	526690.3	6815791.1	1580	2670	+0.122	4835.797	979189.956	-40.059	32.820	-11.901	-19.140	106.352
	527100.1	6815779.0	1580	2710	+0.124	4836.949	979191.108	-38.915	32.246	-11.692	-18.361	104.490
	527498.8	6815789.4	1580	2750	+0.126	4837.666	979191.825	-38.190	32.721	-11.865	-17.333	106.032
	527905.3	6815791.6	1580	2790	+0.128	4839.298	979193.457	-36.556	32.151	-11.658	-16.063	104.183
	528303.9	6815798.6	1580	2830	+0.130	4839.870	979194.029	-35.978	31.719	-11.501	-15.761	102.782
	528700.5	6815797.2	1580	2870	+0.131	4839.266	979193.425	-36.582	31.437	-11.399	-16.544	101.871
	529110.0	6815803.9	1580	2910	+0.133	4838.723	979192.882	-37.120	31.484	-11.416	-17.052	102.022
	526292.0	6816598.9	1660	2630	+0.149	4832.894	979187.053	-42.407	34.968	-12.679	-20.119	113.311
	526703.6	6816625.8	1660	2670	+0.147	4832.932	979187.091	-42.350	35.510	-12.876	-19.716	115.067
	527092.8	6816594.4	1660	2710	+0.145	4835.380	979189.539	-39.923	33.592	-12.181	-18.512	108.852
	527502.6	6816613.1	1660	2750	+0.143	4836.338	979190.497	-38.951	34.054	-12.348	-17.246	110.349
	527881.8	6816611.4	1660	2790	+0.142	4837.702	979191.861	-37.588	32.855	-11.913	-16.646	106.464
	528303.9	6816612.2	1660	2830	+0.140	4838.010	979192.169	-37.279	31.806	-11.533	-17.005	103.067
	528677.7	6816605.9	1660	2870	+0.138	4837.328	979191.487	-37.964	31.857	-11.552	-17.659	103.231
	529095.1	6816604.3	1660	2910	+0.136	4836.636	979190.795	-38.657	32.330	-11.723	-18.050	104.763
	526292.0	6817411.2	1740	2630	+0.151	4832.656	979186.815	-42.086	34.641	-12.561	-20.006	112.252
	526706.0	6817396.7	1740	2670	+0.153	4833.953	979188.112	-40.799	33.473	-12.137	-19.463	108.467
	527097.6	6817392.1	1740	2710	+0.155	4835.005	979189.164	-39.749	32.997	-11.965	-18.717	106.925
	527494.2	6817396.1	1740	2750	+0.157	4835.707	979189.866	-39.044	32.579	-11.813	-18.278	105.569
	527893.5	6817393.7	1740	2790	+0.158	4835.443	979189.602	-39.309	32.783	-11.887	-18.413	106.230
	528303.7	6817401.5	1740	2830	+0.160	4835.340	979189.499	-39.406	32.624	-11.830	-18.611	105.717
	528690.6	6817388.8	1740	2870	+0.162	4835.187	979189.346	-39.567	32.725	-11.866	-18.708	106.042
	529100.4	6817395.7	1740	2910	+0.164	4835.494	979189.653	-39.254	32.342	-11.727	-18.640	104.802



GOLDSTREAM MINING NL

ABN 67 009 129 560

EL 3318 'Manguri' Final Report for the Period 13th March 2006 to 4th October 2006

Volume 1 of 1

Holder/ Operator: Goldstream Mining N.L.

**Level 2, 28-42 Ventnor Ave West Perth
PO Box 1784, West Perth WA 6872**

Compiled by: B. Manzi and A. da Silva

Date: 20th November 2006

Distribution: PIRSA - (2)
Goldstream Mining NL - (2)

SUMMARY

Exploration Licence 3318 'Manguri' covers an area of 602km², is centred approximately 40km northwest of Coober Pedy in South Australia, and is part of the Mt Woods Project. Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream Mining NL (Goldstream) and Anglo American Exploration (Australia) Pty Ltd (Anglo). On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

In order to comply with the Mt Woods Amalgamated Expenditure Agreement, Goldstream fully surrendered Exploration Licence 3318 on 4th October 2006. This final report describes all exploration activities conducted on the licence during its tenure with Goldstream.

Initial exploration activities conducted by Anglo in 2001, comprised a comprehensive review and compilation of previous work. In 2002, one diamond hole was drilled in order to test a strongly negative magnetic feature. AD-1 intersected a thick cover sequence of Mesozoic and Permian sediments underlain by basement pelitic gneisses. No anomalous mineralisation or mafic lithotypes were observed. A regional tectonic interpretation was also completed over the area. In February 2004, Goldstream conducted a detailed assessment of previous exploration conducted over the entire Mt Woods Project.

Expenditure for the period 13th March 2006 to 4th October 2006 totalled **\$8,107**. Total expenditure for EL 3318 during its tenure with Goldstream was **\$162,797**.

KEY WORDS

Coober Pedy, Murloocoppie 1:250,000 map sheet, Proterozoic, Mabel Creek Ridge, Mount Woods Inlier, Iron Oxide-Copper-Gold, IOCG, Base Metals, Magnetism, Gravity, Geophysical Anomalies

TABLE OF CONTENTS

SUMMARY

KEY WORDS

DIGITAL FILES (ON REPORT CD)	i
LIST OF FIGURES	i
LIST OF TABLES	i
LIST OF APPENDICES	i
1.0 INTRODUCTION	1
2.0 TENURE	1
3.0 REGIONAL GEOLOGY	1
4.0 PREVIOUS EXPLORATION	2
5.0 EXPLORATION ACTIVITIES	2
6.0 EXPENDITURE	3
7.0 CONCLUSIONS AND RECOMMENDATIONS	3
8.0 REFERENCES	4

DIGITAL FILES (ON REPORT CD)

EL3318_Final_Report_2006.pdf
EL3318_Appendix1_Drillhole_Collar.xls
EL3318_Appendix2_Drillhole_Lithology.xls
EL3318_Appendix3_Drillhole_Assay.xls

LIST OF FIGURES

Figure 1 Tenement Location
Figure 2 Drillhole Location
Figure 3 2002 Tectonic Interpretation

LIST OF TABLES

Table 1 Licence Details
Table 2 Expenditure March to October 2006

LIST OF APPENDICES

Appendix 1 Drillhole Collar
Appendix 2 Drillhole Lithology
Appendix 3 Drillhole Assay
Appendix 4 Drillhole Petrology

1.0 INTRODUCTION

Manguri EL 3318 is centred approximately 40km northwest of Coober Pedy in the northern Gawler Craton of South Australia (Figure 1). Access is via the sealed Stuart Highway and then via a series of dirt station tracks, many of which become impassable in wet weather. EL 3318 is situated on the Mount Clarence and Mount Willoughby Pastoral Leases within the Murloocoppie (SH 53-02) 1:250,000 map sheet. It lies partially within the Woomera Prohibited Area. The terrain is dominantly gibber plains with areas of bluebush and saltbush, and some low lying salt lake swamps. It is drained by a series of intermittent creeks.

2.0 TENURE

Exploration Licence 2679 was originally granted to Goldstream Mining NL on 13th December 1999 for a period of 12 months (Table 1). It was subsequently renewed for additional 12 month periods and completed its fifth and final year in 2004. The licence initially covered an area of approximately 1,243km² and was reduced to 1,039km² on 13th May 2003. Between 2001 and 2003, the licence was part of the Mt Woods Joint Venture between Goldstream and Anglo. On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management.

The lease is part of the Mt Woods Project Amalgamated Expenditure Agreement with the Department of Primary Industries and Resources South Australia (PIRSA), dated 6 October 2004. In order to retain the area and continue exploration activities Goldstream applied for, and was granted replacement Exploration Licence 3318 on March 14th 2005. Goldstream further reduced the licence to 602km² on December 19th 2005. In order to comply with the Mt Woods Amalgamated Expenditure Agreement, Goldstream fully surrendered EL 3318 on 4th October 2006.

Table 1. Licence Details

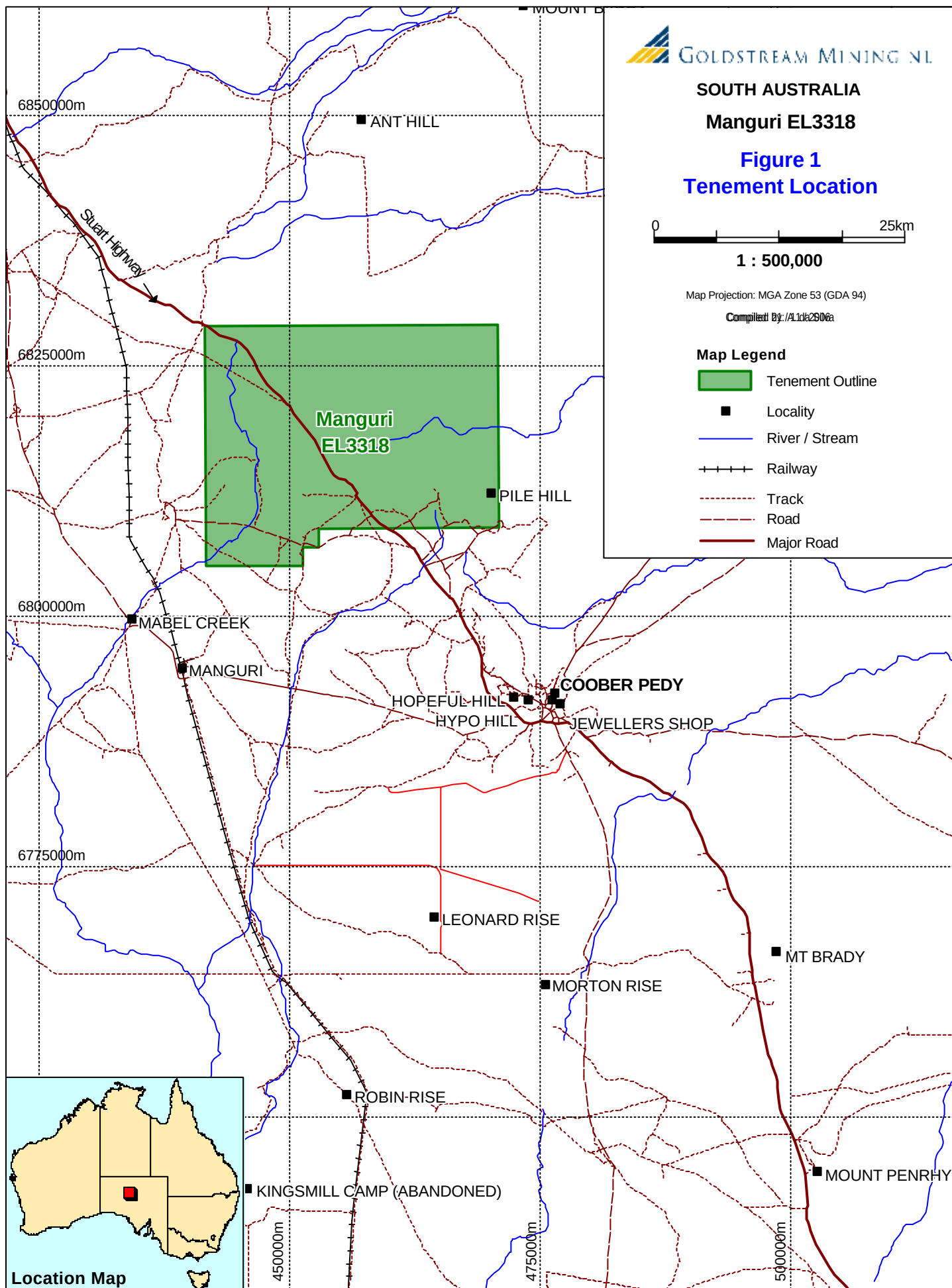
Licence	Granted	Expiry	Year	Area	Commitment
EL 2679	13 December 1999	12 December 2004	5	1,039 km ²	\$130,000
EL 3318	14 March 2005	13 March 2007	1	602 km ²	\$180,000

3.0 REGIONAL GEOLOGY

The Manguri exploration licence covers a portion of the poorly understood Palaeoproterozoic Mabel Creek Inlier, a large block of variable magnetic intensity lying to the north of the Coober Pedy Ridge and the Mount Woods Inlier. These three terranes abut an interpreted Archaean age cratonic area to their south and west. The area contains major regional structures (including the Karari Fault Zone) and is traversed by several prominent northwest trending structures along which significant thicknesses of Permian sediments have been deposited.

Basement outcrop in the region is generally restricted to the Mount Woods Inlier to the southeast of the tenement, and limited outcrop of Gawler Range Volcanics and Archaean Gneisses further to the south and southwest of the area.

The Mount Woods Inlier comprises high grade Palaeoproterozoic metasedimentary rocks (amphibolite to granulite facies quartzo-feldspathic gneisses, meta-iron formations, quartz-feldspar-biotite schists, metaquartzites, calc-silicates and forsterite marbles) intruded by syn- to post-tectonic granitoids, (eg, the Balta Granite, a polyphase Hiltaba Granite equivalent, comprising non-foliated brick-red granite, porphyritic granites and hybrid granites) and is covered by Mesozoic



and Tertiary sedimentary cover. The metasediments are characterised by an intense magnetic response in regional aeromagnetic data, which reflects a combination of magnetite-rich precursor sediments including BIFs, magnetite alteration, and interpreted probable mafic intrusive bodies. The Inlier is bounded by major shear zones, the most prominent of which is the Karari Fault Zone which bounds the east-west trending Coober Pedy Ridge.

To the north, the Coober Pedy Ridge is separated from the Mabel Creek Ridge by the Permian Tallaringa Trough, and the cover thickness increases markedly. To the west, cover thickness also increases due to the presence of Permian and some Cambrian sediments, and increased thickness of Mesozoic cover. Limited previous exploration drilling has shown that the cover sequences generally comprising Cretaceous sediments of the Cadna-Owie Formation, Algebuckina Sandstone and the Bulldog Shale, which are in turn overlain by Tertiary, Quaternary and recent cover, are highly variable over the tenement area. Basement is interpreted to deepen to the south of the tenement into the Phillipson Trough.

Extensive pre- and post-tectonic alteration can be observed from drill holes in the region. Hematite±magnetite±sulphide breccias, iron introduction into meta-sediments and calcium-iron-silicate alteration have been reported.

4.0 PREVIOUS EXPLORATION

Exploration for iron ore in the Coober Pedy region was undertaken by Delhi Petroleum during 1962-1965. More extensive base and precious metal exploration, and minor uranium and diamond exploration was carried out by Newmont Ltd (1970-1977), CRA Exploration (1981-1988), BHP Minerals (BHP; 1991-1995) and WMC Resources (1995-2000, in joint venture with BHP Minerals).

Regional geophysical coverage of the area includes aeromagnetics flown by BHP Minerals in 1992 and gravity conducted jointly by MIM and PIRSA in 1996. Extensive regional RC drilling was also completed by PIRSA as part of the South Australian Steel and Energy Project on the Phillipson and Coober Pedy 1:100,000 map sheets (1995).

As there is no basement outcrop within the tenement area, previous exploration has been strongly controlled by geophysics. BHP drilled some geophysical basement targets in the southern portion of the licence, but no significant mineralisation was intersected. Hole NC9307 targeted an east-west linear magnetic anomaly on the southern boundary of the tenement. NC9307 intersected 196m of unconsolidated cover underlain by quartz-feldspar-chlorite gneisses which were partially garnetiferous and hematite-altered. Anomalous copper results up to 270ppm were returned. BHP also drilled a linear magnetic anomaly on the western edge of a major magnetic low in the central western part of the licence. Hole NC94004 intersected basement stratigraphy of pegmatite-veined quartz-feldspar-biotite gneisses at 202m. No anomalous results were recorded and magnetite breccia zones within the pegmatites were considered to be the source of the magnetic anomaly.

5.0 EXPLORATION ACTIVITIES

Between 2001 and 2003, Anglo joint ventured into the ground and managed exploration on behalf of Goldstream. Initial exploration by Anglo involved a comprehensive review and compilation of previous work which identified the potential of the area for craton margin magmatic nickel deposits together with a number of aeromagnetic and gravity targets with potential for iron oxide copper-gold style mineralisation (IOCG).

In 2002, diamond drillhole AD-1 (343.7m depth, -70° dip towards 355° Magnetic) was drilled to test a strongly negative magnetic feature (Figure 2). AD-1 intersected a thick 262.2m cover sequence of Mesozoic and Permian sediments underlain by basement pelitic gneisses (See Appendix 1 and

SOUTH AUSTRALIA
Manguri EL3318

Figure 2
Drillhole Location Over
Bouguer Residual Gravity



1 : 250,000

Map Projection: MGA Zone 53 (GDA 94)

Compiled: 21 / 11 / 2006

Compiled by: A. da Silva

Map Legend

 RC Collar (BHP)

 Diamond Collar (Anglo)

 Tenement Outline

6850000m

6840000m

6830000m

6820000m

6810000m

6800000m

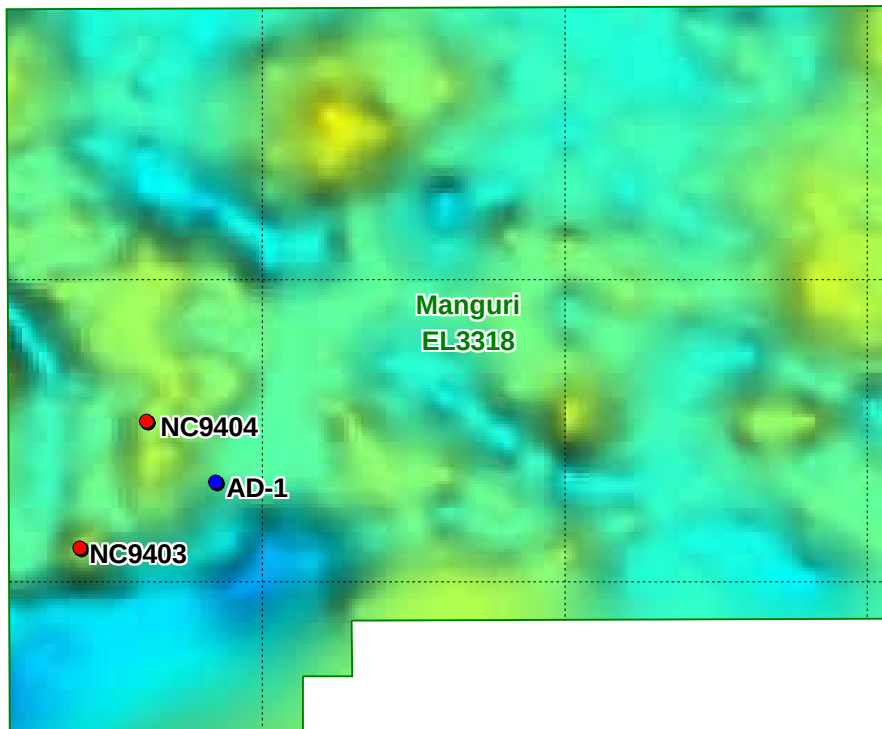
440000m

450000m

460000m

470000m

480000m



2 for Collar and Lithology data respectively). Selected core intervals were assayed for a multi-element suite (Appendix 3) with no significant results returned. No mafic lithotypes were observed and a magnetic remanence study on oriented core samples indicated that the magnetic feature is most likely due to a very high reversely magnetised remanence in the gneisses (Brewer, A., 2003). Four samples were petrologically examined, with samples all being described as meta-pelitic gneisses (Appendix 4). A regional tectonic interpretation was also completed over the area to assist with determining the tectonic relationships of the three main geophysical domains in the area (Figure 3).

On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management. In February 2004, Garsed & Associates were contracted to conduct a detailed assessment of previous exploration conducted over the entire Mt Woods Project licences. Two main IOCG geophysical targets MA5 and MA15 were identified within the Manguri tenement (Manzi, B. and Garsed, I., 2004). These targets were selected on the basis of their amplitude (max 1.7) in the residual gravity grid and their interpreted geological setting.

6.0 EXPENDITURE

Expenditure for EL 3318 during the period 13th March 2006 to 4th October 2006 totalled \$8,107 (Table 2). Total expenditure for the Licence during its tenure with Goldstream, 13th December 1999 to 4th October 2006, totalled \$162,797.

Table 2. Expenditure March to October 2006.

ITEM	Amount
Geological Consultants	\$ 2,138
Tenement Costs	\$ 4,912
Overheads (15%)	\$ 1,057
TOTAL	\$ 8,107

7.0 CONCLUSIONS AND RECOMMENDATIONS

Initial exploration activities conducted by Anglo comprised a comprehensive review and compilation of previous work. Anglo identified the potential of the area for craton margin magmatic nickel deposits and defined a number of geophysical targets with potential for IOCG-style mineralisation.

In 2002, Anglo drilled one diamond hole in order to test a strongly negative magnetic feature. AD-1 intersected a thick cover sequence of Mesozoic and Permian sediments underlain by basement pelitic gneisses. No anomalous mineralisation or mafic lithotypes were observed. A regional tectonic interpretation was also completed over the area.

On February 11th 2004, Anglo withdrew from the joint venture and the licence was returned to Goldstream for management. In February 2004, Goldstream conducted a detailed assessment of previous exploration conducted over the entire Mt Woods Project. Two IOCG geophysical targets were identified within the Manguri tenement, on the basis of their amplitude in the residual gravity grid and their interpreted geological setting.

In order to comply with the Mt Woods Project Amalgamated Expenditure Agreement, Goldstream fully surrendered EL 3318 on 4th October 2006.

SOUTH AUSTRALIA
Manguri EL3318

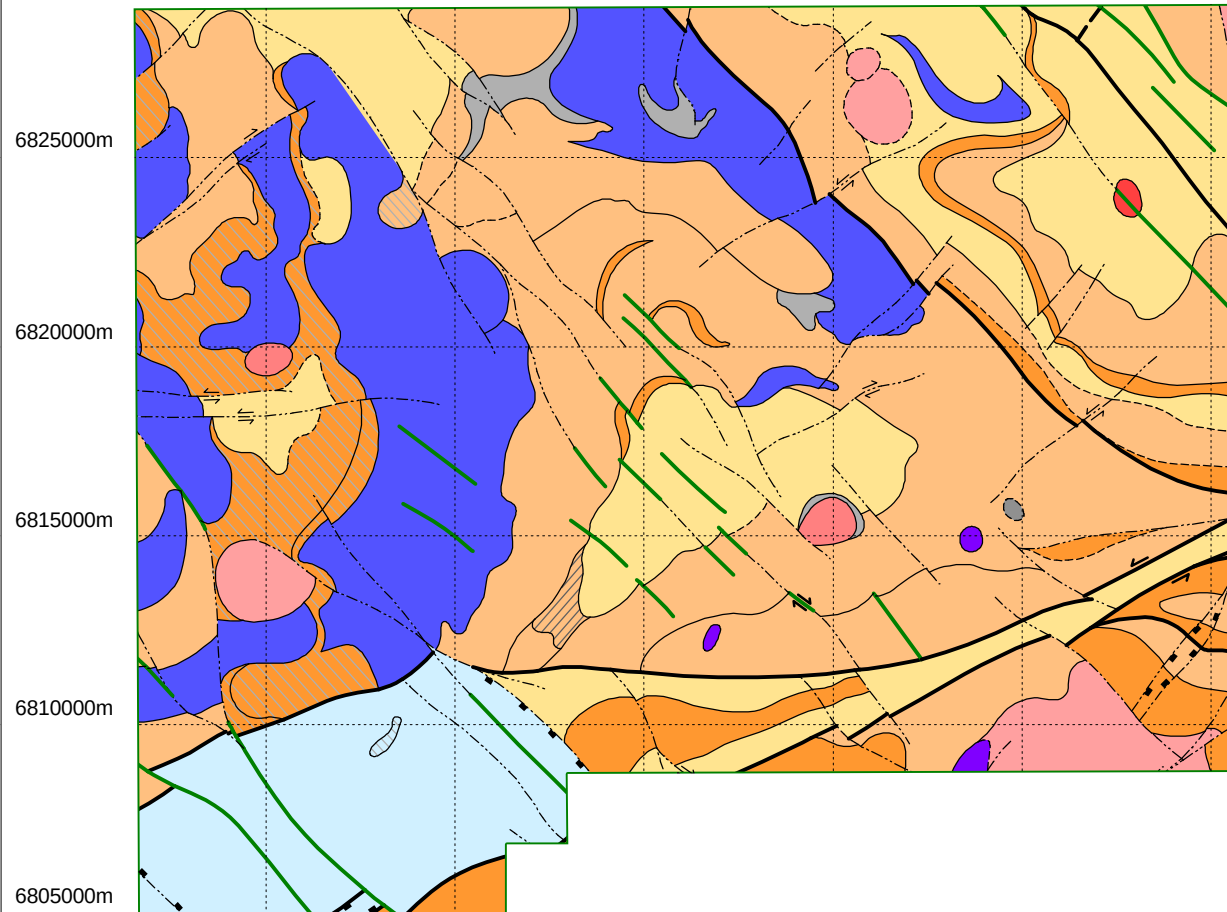
Figure 3
2002 Tectonic Interpretation



1 : 200,000

Map Projection: MGA Zone 53 (GDA 94)

Compiled: 22 / 11 / 2006 Compiled by: dasilvaa



REFERENCE

PALAEOZOIC
MESOZOIC
PALAEOPROTEROZOIC
ARCHAEO

PALEOZOIC SEDIMENTS

P: Non-magnetic volcanic evidence at "Pit crater" zone. Narrow NW trough particularly obvious in data.

GAWLER CRATON

INTRUSIVES

- g1: (Highly) felsic and anorthositic magmatism. Lower dykes (typically NW-trending) locally to strongly magnetic.
- g2: Moderately to weakly magnetic (in elongate shape, elongated to elongate).
- g3: Weakly to moderately magnetic to non-magnetic, elongate shape and lower units.
- g4: Moderately magnetic and/or felsic bodies. Includes possible layered complexes (basaltic to felsic).
- g5: Moderately magnetic. Very strongly magnetic, massive gabbro.
- g6: Strongly to moderately magnetic unit. Massive, "typical" magnetic unit.
- g7: Moderately to weakly magnetic, elongate to elongate bodies with massive cores.
- g8: Moderately to weakly magnetic, elongate to elongate bodies with massive cores.
- g9: Non-magnetic (in weakly-reversely magnetic) circular to elongate, massive resistant bodies.
- g10: Basal Gneiss (dominated by gneiss on g1, g2 and g3 units).
- g11: Massive, moderately magnetic gneiss. High level (7-8 km) volcanic intrusions.

LINE LEGEND

- Major Fault (high confidence)
- Major Fault (low confidence)
- Minor Fault
- Geological/Structural boundary
- Hydrogeological/Structural boundary

STRUCTURAL LEGEND

- g1: Non-magnetic, linear, strongly magnetic.
- g2: Linear magnetic units (likely includes unconformable dykes - up & primary RF).
- g3: Moderately magnetic, elongate shapes. Commonly superimposed on magnetically layered sequences.
- g4: Moderately magnetic, elongate shapes.
- g5: Moderately magnetic, elongate shapes.
- g6: Moderately magnetic, elongate shapes.
- g7: Moderately magnetic, elongate shapes.
- g8: Moderately magnetic, elongate shapes.
- g9: Moderately magnetic, elongate shapes.
- g10: Moderately magnetic, elongate shapes.
- g11: Moderately magnetic, elongate shapes.

OVERPRINT LEGEND

- g1: Non-magnetic, linear, strongly magnetic.
- g2: Linear magnetic units (likely includes unconformable dykes - up & primary RF).
- g3: Moderately magnetic, elongate shapes. Commonly superimposed on magnetically layered sequences.
- g4: Moderately magnetic, elongate shapes.
- g5: Moderately magnetic, elongate shapes.
- g6: Moderately magnetic, elongate shapes.
- g7: Moderately magnetic, elongate shapes.
- g8: Moderately magnetic, elongate shapes.
- g9: Moderately magnetic, elongate shapes.
- g10: Moderately magnetic, elongate shapes.
- g11: Moderately magnetic, elongate shapes.

NEOZOIC SEDIMENTS (PMA)

- PM1: Moderately magnetic, linear units.
- PM2: Zone of moderately to weakly magnetic, layered, linear units.
- PM3: Zone dominated by non-magnetic, or "fuzzy", weakly magnetic, massive units.
- PM4: Zone of very "fuzzy", weak magnetic (massive) units. Weakens to poorly layered magnetized gneiss.
- PM5: Weakly magnetic units (the associated with only minor layers of gneiss). Massive to poorly layered magnetized gneiss.
- PM6: Zone of weak to strong magnetic magnetization. Quartz-feldspar gneiss with strong metamorphic alteration to feldspar. Potential for large scale magnetic at depth.

NEOZOIC SEDIMENTS (PMA)

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- PM4: Zone of very "fuzzy", weak magnetic (massive) units. Weakens to poorly layered magnetized gneiss.
- PM5: Weakly magnetic units (the associated with only minor layers of gneiss). Massive to poorly layered magnetized gneiss.
- PM6: Zone of weak to strong magnetic magnetization. Quartz-feldspar gneiss with strong metamorphic alteration to feldspar. Potential for large scale magnetic at depth.

CHROMITE & IRON SUBSIDIARIES (PMA)

- PM1: Moderately magnetic, linear units.
- PM2: Zone of moderately to weakly magnetic, layered, linear units.
- PM3: Zone dominated by non-magnetic, or "fuzzy", weakly magnetic, massive units.
- PM4: Zone of very "fuzzy", weak magnetic (massive) units. Weakens to poorly layered magnetized gneiss.
- PM5: Weakly magnetic units (the associated with only minor layers of gneiss). Massive to poorly layered magnetized gneiss.
- PM6: Zone of weak to strong magnetic magnetization. Quartz-feldspar gneiss with strong metamorphic alteration to feldspar. Potential for large scale magnetic at depth.

MT WOODS SUBSIDIARIES (PMA)

- PM1: Moderately magnetic, linear units.
- PM2: Zone of moderately to weakly magnetic, layered, linear units.
- PM3: Zone dominated by non-magnetic, or "fuzzy", weakly magnetic, massive units.
- PM4: Zone of very "fuzzy", weak magnetic (massive) units. Weakens to poorly layered magnetized gneiss.
- PM5: Weakly magnetic units (the associated with only minor layers of gneiss). Massive to poorly layered magnetized gneiss.
- PM6: Zone of weak to strong magnetic magnetization. Quartz-feldspar gneiss with strong metamorphic alteration to feldspar. Potential for large scale magnetic at depth.

TWINN BLOCK

- PM1: Moderately magnetic, linear units.
- PM2: Zone of moderately to weakly magnetic, layered, linear units.
- PM3: Zone dominated by non-magnetic, or "fuzzy", weakly magnetic, massive units.
- PM4: Zone of very "fuzzy", weak magnetic (massive) units. Weakens to poorly layered magnetized gneiss.
- PM5: Weakly magnetic units (the associated with only minor layers of gneiss). Massive to poorly layered magnetized gneiss.
- PM6: Zone of weak to strong magnetic magnetization. Quartz-feldspar gneiss with strong metamorphic alteration to feldspar. Potential for large scale magnetic at depth.

8.0 REFERENCES

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APPENDIX 1
Drillhole Collar

DataSet	Hole_ID	Hole_Type	Orig_Grid_ID	Orig_East	Orig_North	Orig_RL	Orig_Azimuth	Orig_Survey_Type	UTM_Grid_ID	UTM_East	UTM_North	UTM_RL	UTM_Azimuth	Dip	Precollar_Depth	Max_Depth	Tenement	Prospect	Start_Date	End_Date
MTWOODS	AD-1	DDH	AMG66_53	448358	6813096	140	355	GPS	AMG84_53	448357.0149	6813095.559	140	355	-70	262.2	343.7	EL2679	ShellPatch	26/06/2002	6/07/2002

APPENDIX 2

Drillhole Lithology

DataSet	Hole_ID	mFrom	mTo	Lith_Code	Lithology
MTWOODS	AD-1	0	2	Sand	Sand
MTWOODS	AD-1	2	4	SLCT	Silcrete
MTWOODS	AD-1	4	6	SLCT	Silcrete
MTWOODS	AD-1	6	102	CYST	Claystone
MTWOODS	AD-1	102	108	SDST	Sandstone
MTWOODS	AD-1	108	117	SDST	Sandstone
MTWOODS	AD-1	117	146	CYST	Claystone
MTWOODS	AD-1	146	174	SDST	Sandstone
MTWOODS	AD-1	174	262.2	CYST	Claystone
MTWOODS	AD-1	262.2	263.1	PEG	Pegmatite
MTWOODS	AD-1	263.1	263.9	MEGN	Gneiss
MTWOODS	AD-1	263.9	264.1	SDST	Sandstone
MTWOODS	AD-1	264.1	264.8	MEGN	Gneiss
MTWOODS	AD-1	264.8	271.4	PEG	Pegmatite
MTWOODS	AD-1	271.4	274.7	MEGT	Granite
MTWOODS	AD-1	274.7	277.6	MEGN	Gneiss
MTWOODS	AD-1	277.6	283.9	PEG	Pegmatite
MTWOODS	AD-1	283.9	284.6	PEG	Pegmatite
MTWOODS	AD-1	284.6	285.3	MEGN	Gneiss
MTWOODS	AD-1	285.3	286.8	PEG	Pegmatite
MTWOODS	AD-1	286.8	298.8	MEGN	Gneiss
MTWOODS	AD-1	298.8	299.5	MEGT	Granite
MTWOODS	AD-1	299.5	300.4	MEGN	Gneiss
MTWOODS	AD-1	300.4	309.5	MEGT	Granite
MTWOODS	AD-1	309.5	311.1	MEGT	Granite
MTWOODS	AD-1	311.1	331	MEGN	Gneiss
MTWOODS	AD-1	331	343.7	MEGT	Granite

APPENDIX 3
Drillhole Assay

HOLE ID	SAMPLE No.	From	To	SiO2_pct	Al2O3_pct	Fe2O3_pct	MgO_pct	CaO_pct	Na2O_pct	K2O_pct	TiO2_pct	P2O5_pct	MnO_pct	Cr2O3_pct	Ba_ppm
AD-1	AUX021002	268.0	270.0	74.02	14.53	1.81	0.03	0.50	4.61	3.11	0.02	0.06	0.38	0.001	9
AD-1	AUX021003	289.0	291.0	59.33	17.50	8.96	2.63	2.10	1.62	3.45	0.81	0.15	0.09	0.008	605
AD-1	AUX021004	307.0	309.0	75.02	13.69	1.49	0.27	1.41	1.97	4.94	0.04	0.08	0.02	0.001	721
AD-1	AUX021005	313.0	315.0	57.48	19.06	9.45	2.50	1.49	1.29	4.00	0.82	0.14	0.09	0.014	757
AD-1	AUX021006	339.0	341.0	59.45	18.06	9.10	2.75	1.94	1.41	2.98	0.78	0.15	0.11	0.010	683

APPENDIX 3
Drillhole Assay

HOLE ID	SAMPLE No.	From	To	Ni ppm	Sc ppm	LOI_pct	TOT/C_pct	TOT/S_pct	SUM_pct	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm
AD-1	AUX021002	268.0	270.0	20	1	0.8	0.03	0.01	99.87	1.1	5.9	34.5	1.4	87.2	694.7	11
AD-1	AUX021003	289.0	291.0	38	16	3.1	0.06	0.01	99.82	20.2	11.1	24.4	6.0	12.9	202.2	5
AD-1	AUX021004	307.0	309.0	20	1	1.0	0.06	0.01	100.01	1.4	5.1	12.7	1.3	3.0	226.4	1
AD-1	AUX021005	313.0	315.0	37	18	3.5	0.03	0.01	99.92	21.8	13.8	29.1	4.6	16.8	311.2	5
AD-1	AUX021006	339.0	341.0	40	17	3.0	0.01	0.01	99.83	21.0	7.8	24.3	4.9	10.8	151.0	4

APPENDIX 3
Drillhole Assay

HOLE ID	SAMPLE No.	From	To	Sr_ppm	Ta_ppm	Th_ppm	U_ppm	V_ppm	W_ppm	Zr_ppm	Y_ppm	La_ppm	Ce_ppm	Pr_ppm	Nd_ppm	Sm_ppm	Eu_ppm
AD-1	AUX021002	268.0	270.0	5.3	20.2	3.8	4.2	5	5.5	27.7	13.3	2.5	6.2	0.66	2.1	0.7	0.05
AD-1	AUX021003	289.0	291.0	108.3	1.1	21.8	2.5	92	2.0	196.8	38.8	67.0	128.7	14.01	51.8	8.9	1.52
AD-1	AUX021004	307.0	309.0	146.9	1.1	6.6	1.3	7	2.6	40.1	40.5	18.4	34.0	3.69	13.6	2.8	0.61
AD-1	AUX021005	313.0	315.0	113.8	1.3	24.8	1.6	97	4.0	163.6	29.9	62.1	117.6	12.84	48.5	8.3	1.41
AD-1	AUX021006	339.0	341.0	122.8	1.0	24.3	2.4	91	0.7	186.5	31.3	59.2	115.6	12.66	48.5	8.6	1.36

APPENDIX 3
Drillhole Assay

HOLE ID	SAMPLE No.	From	To	Gd_ppm	Tb_ppm	Dy_ppm	Ho_ppm	Er_ppm	Tm_ppm	Yb_ppm	Lu_ppm	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ni_ppm	As_ppm
AD-1	AUX021002	268.0	270.0	0.87	0.21	1.53	0.28	0.94	0.24	2.00	0.33	0.2	4.9	21.8	18	1.2	1
AD-1	AUX021003	289.0	291.0	6.32	0.99	5.36	1.02	2.74	0.39	2.54	0.37	0.5	2.4	28.9	104	40.1	1
AD-1	AUX021004	307.0	309.0	3.08	0.74	5.46	1.25	4.20	0.73	5.24	0.81	0.3	2.8	39.4	9	2.3	1
AD-1	AUX021005	313.0	315.0	6.44	0.96	5.44	1.03	2.72	0.40	2.31	0.35	0.4	1.3	25.2	98	46.5	1
AD-1	AUX021006	339.0	341.0	6.87	1.02	5.54	1.13	2.93	0.43	2.79	0.40	0.2	1.4	29.6	99	41.5	1

APPENDIX 3
Drillhole Assay

HOLE ID	SAMPLE No.	From	To	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Tl ppm	Au ppb	Pd ppb	Pt ppb
AD-1	AUX021002	268.0	270.0	0.1	0.1	0.1	0.1	3.0	0.5	10	2
AD-1	AUX021003	289.0	291.0	0.1	0.1	0.1	0.1	1.0	1.2	10	2
AD-1	AUX021004	307.0	309.0	0.1	0.1	0.1	0.1	1.0	0.7	10	2
AD-1	AUX021005	313.0	315.0	0.1	0.1	0.1	0.1	1.6	0.5	10	2
AD-1	AUX021006	339.0	341.0	0.1	0.1	0.2	0.1	0.8	1.5	10	2

APPENDIX 4

Drillhole Petrology

Memo to: R. Goodgame

Copies to: A. Brewer
C. Tomich
I. Willis

Date: 20 September 2002

From: G. Teale

Subject: Preliminary petrological descriptions, drillhole AD01.

The drillhole collared by AngloAmerican is essentially represented by meta-sediments with some granitic sills and minor "sweats". Samples investigated in AD01 are essentially meta-pelitic gneisses (feldspathic) containing abundant sillimanite, cordierite and hematite. The latter does not exsolve too much ferrian ilmenite but may be titaniferous. No magnetite was observed. The hematite is part of the high-grade gneiss assemblage with these gneisses being ferric iron-rich. Iron-rich silicates (e.g. garnet, etc.) do not form and the dominant Mg-Fe silicate is an Mg-rich cordierite (co-existing with the hematite), and Mg-biotite.

The mineralogy of the samples is as follows:

HoleID	Depth (m)	Petrological Description
AD-1	289.7m	Quartz-plagioclase-biotite-sillimanite-hematite (-muscovite)
AD-1	308.5m	Quartz-plagioclase-K_feldspar (-titan_hematite-ferrian_ilmenite-muscovite)
AD-1	340.4m	Biotite-sillimanite-K_feldspar-plagioclase- hematite
AD-1	341.0m	Quartz-plagioclase-cordierite-sillimanite-hematite-tourmaline

Graham Teale