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EL 3504

PORT AUGUSTA

ANNUAL AND FINAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 18/1/2006 TO 17/1/2010

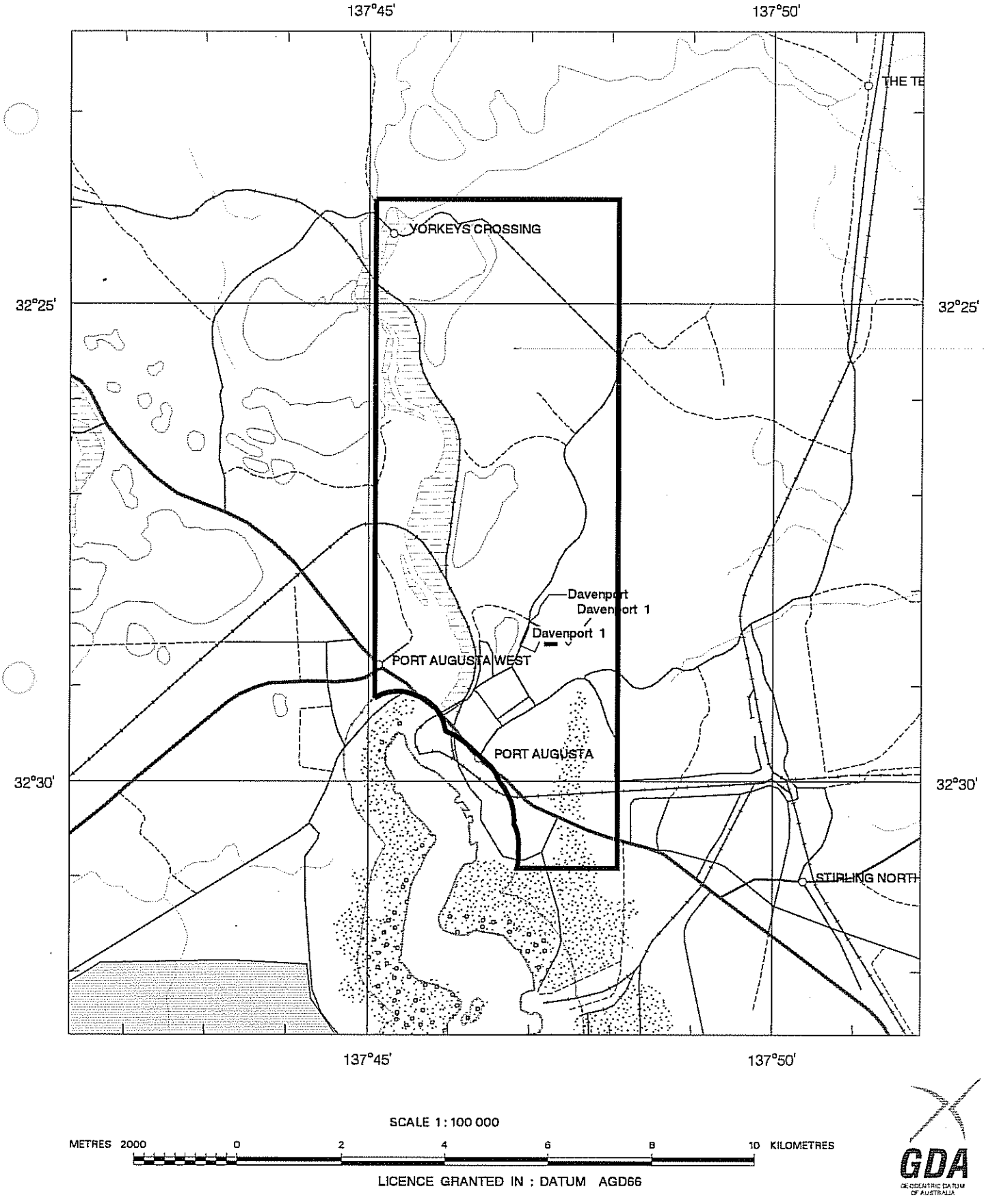
Submitted by
Minop Pty Ltd
2010

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



SCALE 1 : 100 000

METRES 2000 0 2 4 6 8 10 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA
GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **MINOP PTY LTD**

FILE REF : **633/05** TYPE : **MINERAL ONLY** AREA : **53** km² (approx.)

1:250000 MAPSHEETS : **PORT AUGUSTA**

LOCALITY : **PORT AUGUSTA AREA - Immediately north of Port Augusta**

DATE GRANTED : **18-Jan-2006** DATE EXPIRED : **17-Jan-2007** EL NO : **3504**

MINOP PTY LTD

EL 3504 "PORT AUGUSTA"
Annual Report for the Period 18th January 2006 to 17th January 2007.

A.M. Brewer
March 2007

SUMMARY

Exploration Licence 3504, "Port Augusta" covering an area of 53km^2 lies north of Port Augusta on the upper Spencer Gulf in South Australia. The area is held by Minop Pty Ltd.

This report describes activities conducted on the tenement area during the First Annual Period 18th January 2006 to 17th January 2007.

Exploration during the period has consisted of an initial data review of previous exploration and a geophysical lineament interpretation.

A total of 5 rock float samples and 22 soil samples were taken during field reconnaissance of the area.

Expenditure for the period totalled $9,110.

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EL3504_Appendix1.xls
EL3504_Appendix2.pdf
EL3504_Appendix2.xls

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1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 3504, "Port Augusta". This report describes activities conducted on the tenement area during the First Annual Period 18th January 2006 to 17th January 2007.

Exploration Licence 3504, "Port Augusta" covering an area of 53 km^2, lies on northern Spencer Gulf and is situated to the north of Port Augusta in the eastern Gawler Craton of South Australia (Figure 1). Access is via the sealed Adelaide-Port Augusta road and then via a series of sealed and unsealed roads and dirt farm tracks.

EL 3504 is situated on the eastern Eyre Peninsula and lies within the Port Augusta (SI53-4) 1:250,000 map sheet.

The terrain is dominated by generally open saltbush covered plains, dune fields and samphire/saltbush covered swampland surrounding the northern extension of Spencer Gulf.

Exploration work during the reporting period has comprised data review of previous company and Government exploration, a geophysical lineament interpretation and limited rock and soil sampling during field reconnaissance.

The principal exploration targets for the area are IOCG copper-gold mineralisation and gold vein style mineralisation associated with fault structures.

2.0 TENURE

Exploration Licence 3504 (Port Augusta) was granted to Minop Pty Ltd on the 18th January 2006. The tenement covers an area of approximately 53 km^2 (Figure 1).

3.0 PREVIOUS EXPLORATION

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. However, no drilling of geophysical basement targets under cover has been completed in the area of the tenement.

The project area has been subject to limited exploration by various companies over the past few decades. Exploration has been carried out for a range of commodities including petroleum, gold, copper-gold and diamonds.

4.0 REGIONAL GEOLOGY

The Port Augusta exploration licence covers a section of the eastern portion of the southern Gawler Craton, and covers a section of the interpreted Torrens Hinge zone which separates the flat lying Neo-Proterozoic sequence of the Stuart Shelf from the more strongly deformed sediments of the Neo-Proterozoic Adelaide rift sequences.

There is no previous exploration drilling in the area and the nearest outcrop of Neo-Proterozoic lies to the west of the tenement area. Depth to basement in the area is unknown. An indeterminate thickness of Tertiary to Recent sediments comprising the Pirie Basin and younger sequences covers the area.

Extensive dune fields and playa lake sediments occur as surficial deposits associated with the upper reaches of Spencer Gulf.

5.0 EXPLORATION ACTIVITIES

Exploration activity for the reporting period is summarised on Figure 2.

5.1 ROCK SAMPLING

A total of 6 rock float samples were collected from the area during the period. Sample locations are shown on Figure 3 and data is included as Appendix 1. No significant assays were received.

5.2 SOIL SAMPLING

A total of 22 reconnaissance soil samples were collected from across the area during the period. Samples were assayed by Genalysis for Au, Ag, As, Ni, Pb, U and Zn. Sample PAC-05 returned anomalous levels of As, Ni and Pb, and samples PAC-02, 03 and 08 returned elevated As and require further assessment. Data is included as Appendix 2 and samples are located on Figure 4.

6.0 EXPENDITURE

Expenditure over the licence area totalled $9,110 during the reporting period, and is broken down by expense in the table below: –

Staff Salaries & wages	$6,800
Contract and Consulting Geologists, Field Assistants	$0
Safety, Health and Environment	$0
Ground geophysical surveys, Consultants and Interpretation	$0
Drilling	$0
Drilling Consumables	$0
Assaying	$110
Communications	$0
Equipment Hire	$0
Printing and Digital Data	$0
Tenure Maintenance	$0
Field Expenses	$500
Travel & accommodation	$310
Vehicle hire/fuel/maintenance	$990
Administration overheads	$400
TOTAL	**$9,110**

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 3301 covers a portion of the eastern Eyre Peninsula, an area considered prospective for IOCG style mineralization associated with the Torrens Hinge Zone and gold mineralization in structures related to faulting within this zone. No outcrop occurs in the area and previous drilling has been for engineering purposes only. No clear indication of basement depth is available, but Neo-Proterozoic sediments occur immediately to the west of the area.

Exploration in the next period will consist of additional soil sampling over potential target areas and assaying of samples. RC drilling of any targets identified from the sampling will be undertaken.

APPENDIX 1

Rock Sample Details

Sample No	East(MGA94)	North(MGA94)	Au_ppb	Ag_ppm	Cu_ppm	Pb_ppm	Zn_ppm
PA-01	759040	6412000	1	0.1	33	2	61
PA-02	758880	6411880	X				
PA-03	758850	6411750	X				
PA-04	758820	6411450	X				
PA-05	758780	6411230	X				
PA-06	758800	6410740	X				

APPENDIX 2

Soil Sample Details

Sample No	East(MGA94)	North(MGA94)	Au_ppb	Ag_ppm	As_ppm	Ni-ppm	Pb_ppm	U_ppm	Zn_ppm
PAC-01	762076	6405701	2	X	4.5	2	4	0.51	15
PAC-02	760630	6405462	X	X	12.6	8	4	1.49	28
PAC-03	760841	6405865	X	X	11.3	12	8	1.84	34
PAC-04	760644	6406783	X	X	4.5	7	5	0.26	22
PAC-05	760401	6406908	1	0.01	42	17	13	2.72	41
PAC-06	760165	6408210	X	X	4.1	7	5	0.64	25
PAC-07	760092	6408159	X	X	4.7	2	5	0.6	18
PAC-08	759980	6410093	X	X	22.7	7	7	0.97	30
PAC-09	762161	6406145	2	X	4.8	3	4	0.53	16
PAC-10	762142	6406087	2	X	6.6	5	5	0.72	24
PAC-11	762127	6406035	2	X	3.6	1	3	0.43	15
PAC-12	762108	6405962	X	X	2.7	X	4	0.26	17
PAC-13	762087	6405890	1	X	2.8	X	3	0.27	14
PAC-14	762064	6405795	X	0.01	3.8	4	4	0.59	19
PAC-15	762107	6405611	X	X	3.4	3	4	0.35	17
PAC-16	762125	6405517	X	X	3.6	4	4	0.29	18
PAC-17	762165	6405731	X	X	3.7	3	3	0.44	16
PAC-18	762261	6405674	X	X	2.6	3	3	0.28	13
PAC-19	762342	6405353	X	0.01	3	3	6	0.25	19
PAC-20	762776	6405768	X	X	3.7	2	4	0.22	14

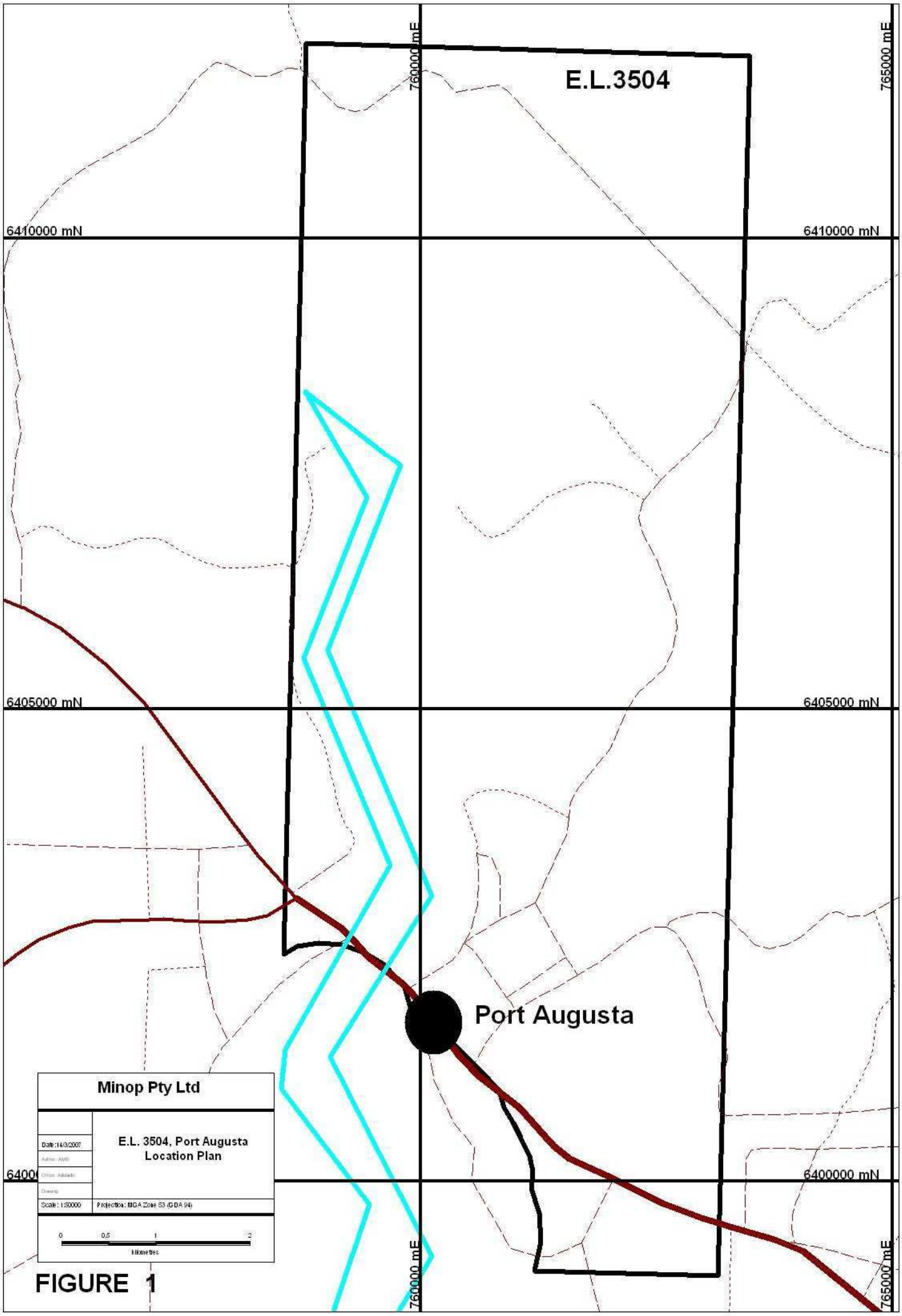
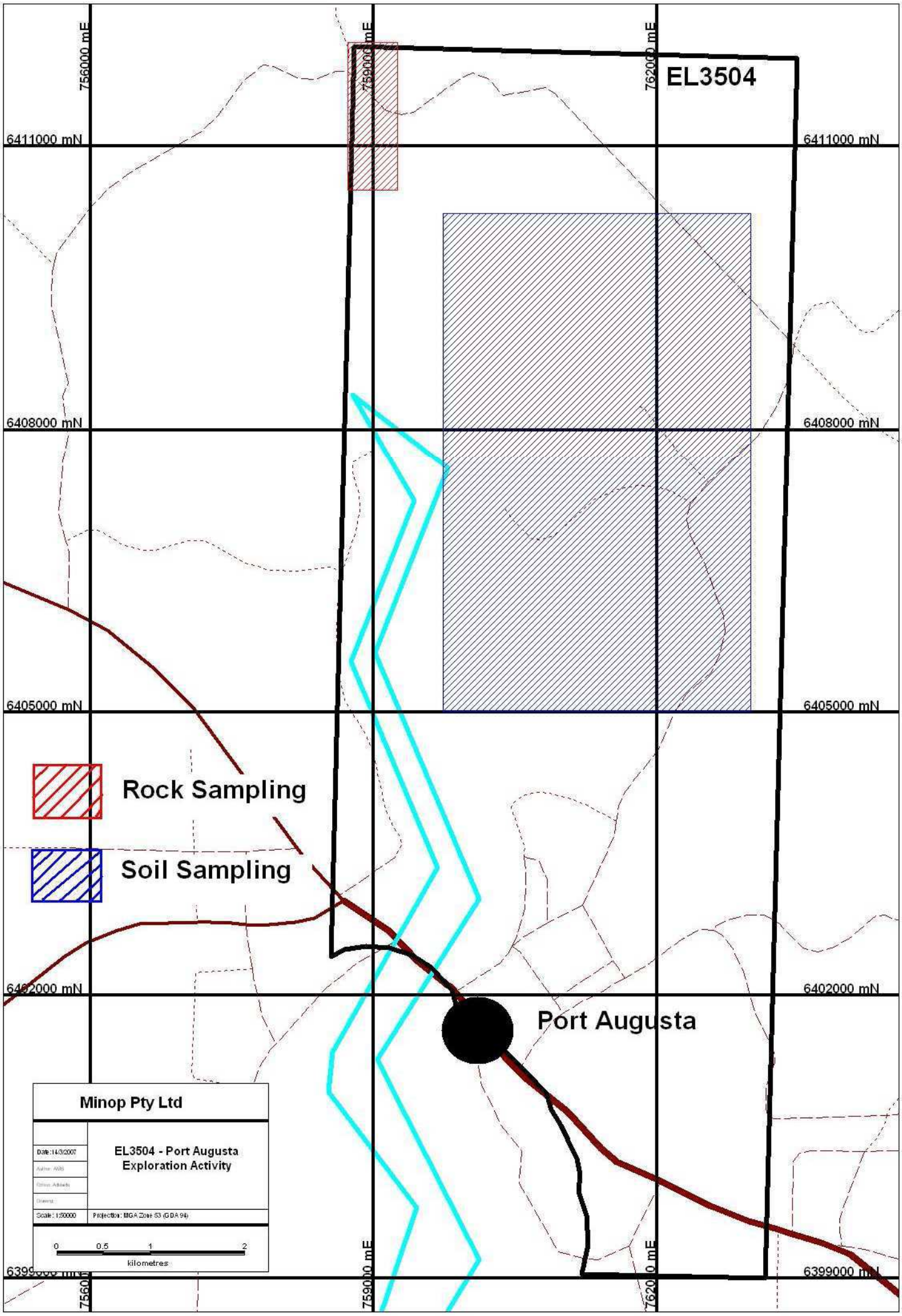

E.L.3504
760000 mE
765000 mE
6410000 mN
6405000 mN
6400000 mN
Port Augusta
Minop Pty Ltd
E.L. 3504, Port Augusta
Location Plan
Date: 14/3/2007
Scale: 1:50000
Projection: MGA Zone 53 (GDA 94)
0
0.5
1
2
kilometres

FIGURE 1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759000 mE
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Rock Sampling
Soil Sampling
Port Augusta
Minop Pty Ltd
EL3504 - Port Augusta
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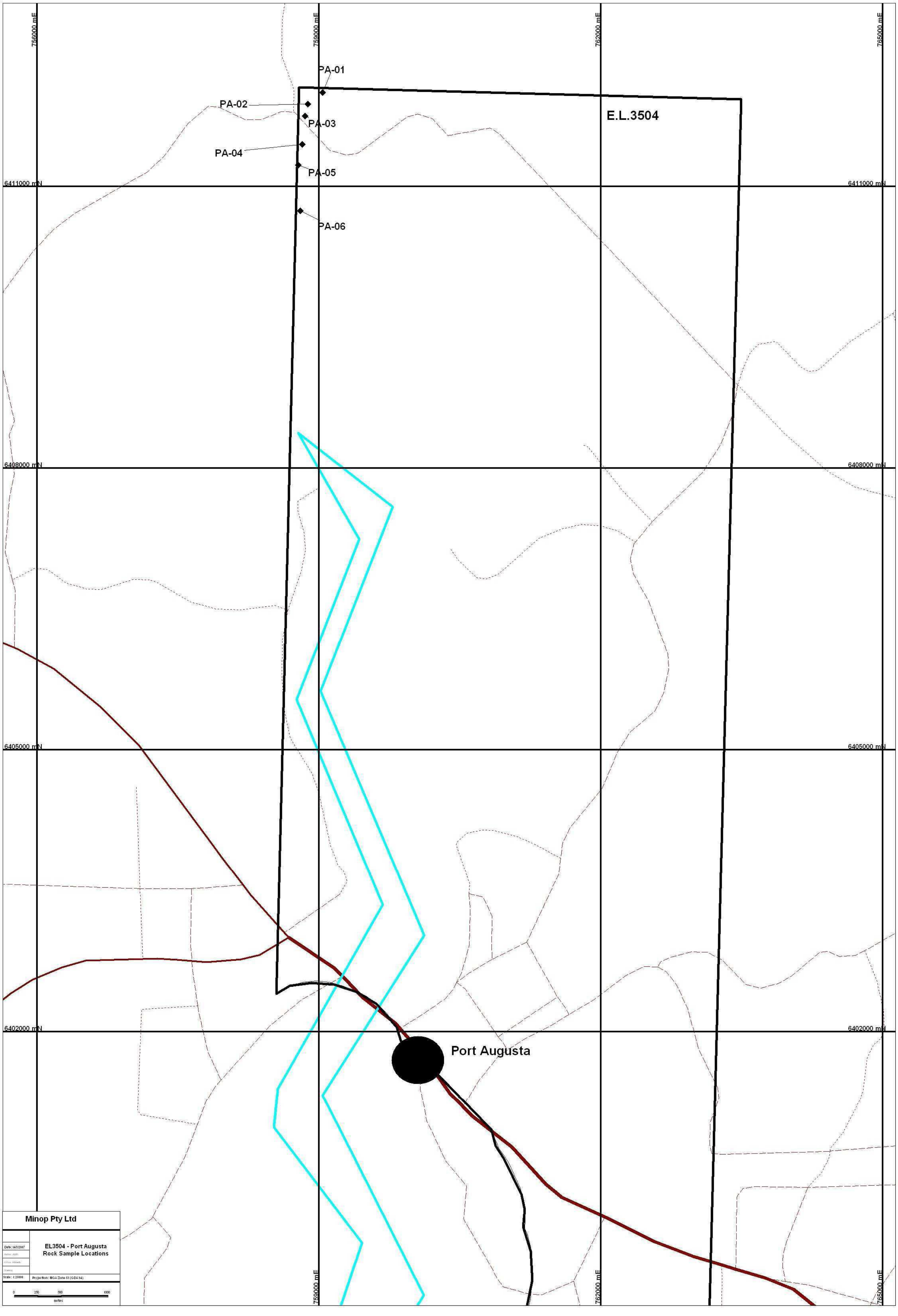
1
2
kilometres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7590000 mE
7620000 mE
7650000 mE
6411000 mN
6408000 mN
6405000 mN
6402000 mN
PA-01
PA-02
PA-03
PA-04
PA-05
PA-06
E.L.3504
Port Augusta
Minop Pty Ltd
EL3504 - Port Augusta
Rock Sample Locations
Date: 14/3/2007
Scale: 1:25000
Projection: MGA Zone 53 (GDA 94)
0
250
500
1000
metres

759000 mE
762000 mE
765000 mE
E.L. 3504
6411000 mN
PAC-08
PAC-06
PAC-07
6408000 mN
PAC-05
PAC-04
PAC-09
PAC-10
PAC-11
PAC-12
PAC-13
PAC-14
PAC-17
PAC-20
PAC-01
PAC-15
PAC-18
PAC-16
PAC-19
PAC-03
PAC-02
6405000 mN
6402000 mN
Port Augusta
6399000 mN

Minop Pty Ltd

EL3540, Port Augusta
Soil Sample Locations

Date: 14/3/2007
Author: AMR
Check: Adelaide
Drawing:
Scale: 1:25000
Projection: MGA Zone 53 (GDA 94)

0 250 500 1000
metres

MINOP PTY LTD

EL 3504 "PORT AUGUSTA"
Annual Report for the Period 18th January 2007 to 17th January 2008.

A.M. Brewer
February 2008

SUMMARY

Exploration Licence 3504, "Port Augusta" covering an area of 53km^2 lies north of Port Augusta on the upper Spencer Gulf in South Australia. The area is held by Minop Pty Ltd.

This report describes activities conducted on the tenement area during the First Annual Period 18th January 2007 to 17th January 2008.

Exploration during the period has consisted of a continuing review of previous geophysical data and planning for a detailed survey over the tenement.

Expenditure for the period totalled $10,153.

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1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 3504, "Port Augusta". This report describes activities conducted on the tenement area during the Second Annual Period 18th January 2007 to 17th January 2008.

Exploration Licence 3504, "Port Augusta" covering an area of 53 km^2, lies on northern Spencer Gulf and is situated to the north of Port Augusta in the eastern Gawler Craton of South Australia (Figure 1). Access is via the sealed Adelaide-Port Augusta road and then via a series of sealed and unsealed roads and dirt farm tracks.

EL 3504 is situated on the eastern Eyre Peninsula and lies within the Port Augusta (SI53-4) 1:250,000 map sheet.

The terrain is dominated by generally open saltbush covered plains, dune fields and samphire/saltbush covered swampland surrounding the northern extension of Spencer Gulf.

Exploration work during the reporting period has comprised continuing review of previous geophysical data and planning of a detailed gravity survey.

The principal exploration targets for the area are IOCG copper-gold mineralisation and gold vein style mineralisation associated with fault structures.

2.0 TENURE

Exploration Licence 3504 (Port Augusta) was granted to Minop Pty Ltd on the 18th January 2006. The tenement covers an area of approximately 53 km^2 (Figure 1). A renewal with a reduction in area to approximately 35 km^2 is currently pending.

3.0 PREVIOUS EXPLORATION

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. However, no drilling of geophysical basement targets under cover has been completed in the area of the tenement.

The project area has been subject to limited exploration by various companies over the past few decades. Exploration has been carried out for a range of commodities including petroleum, gold, copper-gold and diamonds.

4.0 REGIONAL GEOLOGY

The Port Augusta exploration licence covers a section of the eastern portion of the southern Gawler Craton, and covers a section of the interpreted Torrens Hinge zone which separates the flat lying Neo-Proterozoic sequence of the Stuart Shelf from the more strongly deformed sediments of the Neo-Proterozoic Adelaide rift sequences.

There is no previous exploration drilling in the area and the nearest outcrop of Neo-Proterozoic lies to the west of the tenement area. Depth to basement in the area is unknown. An indeterminate thickness of Tertiary to Recent sediments comprising the Pirie Basin and younger sequences covers the area.

Extensive dune fields and playa lake sediments occur as surficial deposits associated with the upper reaches of Spencer Gulf.

5.0 EXPLORATION ACTIVITIES

No field activities were undertaken during the period.

Planning of a detailed gravity survey was undertaken, but a suitable contractor was not available during the current reporting period.

6.0 EXPENDITURE

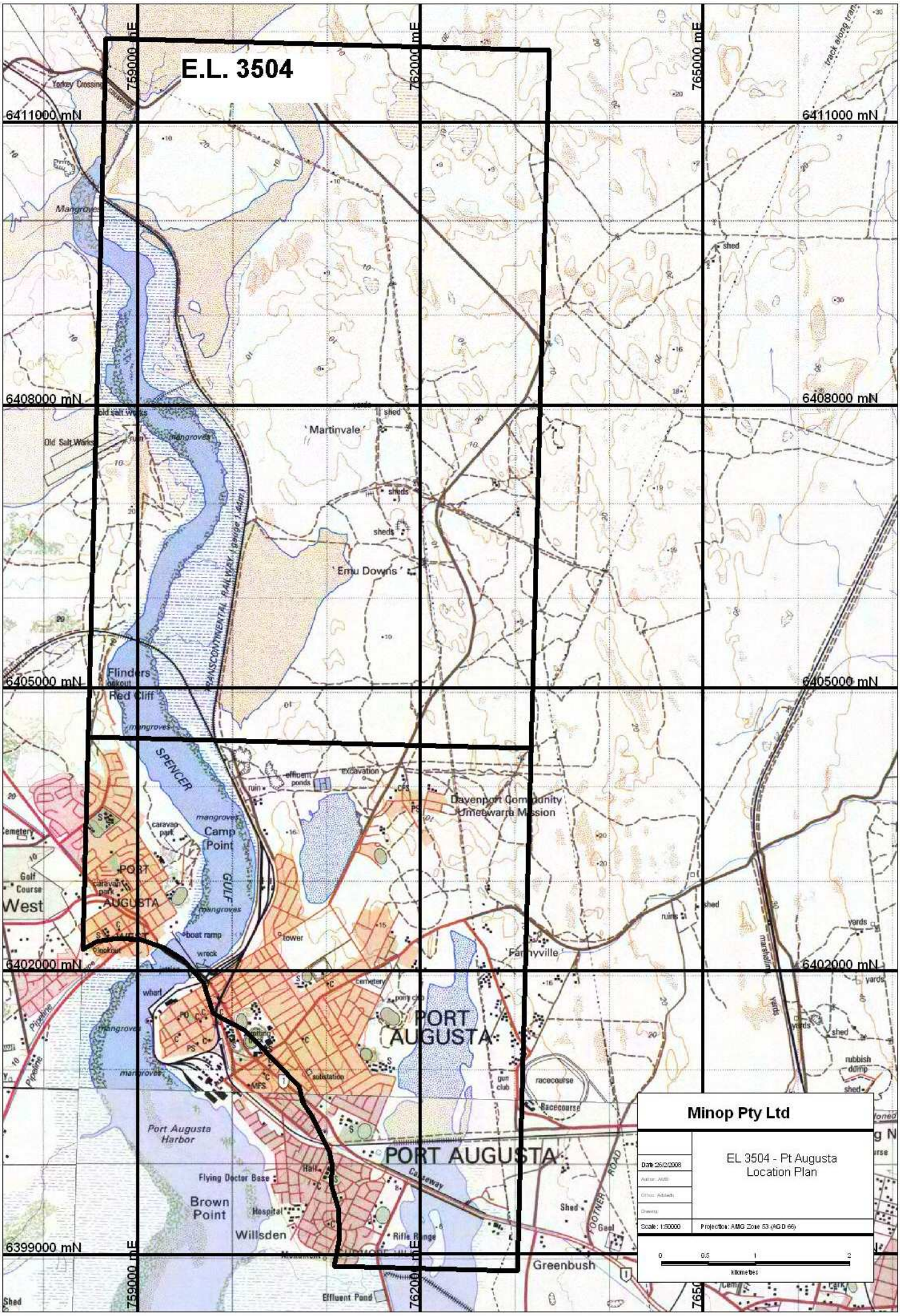
Expenditure over the licence area totalled $10,153 during the reporting period, and is broken down by expense in the table below: –

Staff Salaries & wages	$5,600
Contract and Consulting Geologists, Field Assistants	$1,600
Safety, Health and Environment	$0
Ground geophysical surveys, Consultants and Interpretation	$0
Drilling	$0
Drilling Consumables	$0
Assaying	$0
Communications	$138
Equipment Hire	$0
Printing and Digital Data	$50
Tenure Maintenance	$0
Field Expenses	$341
Travel & accommodation	$0
Vehicle hire/fuel/maintenance	$1,100
Administration overheads	$1,324
TOTAL	**$10,153**

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 3504 covers a portion of the eastern Eyre Peninsula, an area considered prospective for IOCG style mineralization associated with the Torrens Hinge Zone and gold mineralization in structures related to faulting within this zone. No outcrop occurs in the area and previous drilling has been for engineering purposes only. No clear indication of basement depth is available, but Neo-Proterozoic sediments occur immediately to the west of the area.

Exploration in the next period will consist of a detailed gravity survey over the majority of the area with follow up drilling of any significant anomaly detected.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765000 mE
6411000 mN
6408000 mN
6405000 mN
6402000 mN
6399000 mN
Martinvale
Emu Downs
Flinders
Red Cliff
Camp Point
PORT AUGUSTA West
PORT AUGUSTA
PORT AUGUSTA
Davenport Community
Umeewarra Mission
Farmyville
Port Augusta Harbor
Brown Point
Willsden
Greenbush
Flying Doctor Base
Hospital
Rifle Range
racecourse
Effluent Pond
Minop Pty Ltd
EL 3504 - Pt Augusta
Location Plan
Date: 26/2/2008
Scale: 1:50000
Projection: AMG Zone 53 (AGD 66)
0
0.5
1
2
kilometres

MINOP PTY LTD

EL 3504 "PORT AUGUSTA"
Annual Report for the Period 18th January 2008 to 17th January 2009.

A.M. Brewer
January 2009

SUMMARY

Exploration Licence 3504, "Port Augusta" covering an area of 35km^2 lies north of Port Augusta on the upper Spencer Gulf in South Australia. The area is held by Minop Pty Ltd.

This report describes activities conducted on the tenement area during the First Annual Period 18th January 2008 to 17th January 2009.

Exploration during the period has consisted of a continuing review of previous geophysical data and planning for a detailed survey over the tenement.

A detailed gravity survey was completed over a significant portion of the tenement, with 390 new stations recorded. Interpretation of this data suggests the presence of 2 palaeochannels crossing the area and these are currently being assessed as drill targets.

Expenditure for the period totalled $60,970.

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1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 3504, "Port Augusta". This report describes activities conducted on the tenement area during the Third Annual Period 18th January 2008 to 17th January 2009.

Exploration Licence 3504, "Port Augusta" covering an area of 35 km^2, lies on northern Spencer Gulf and is situated to the north of Port Augusta in the eastern Gawler Craton of South Australia (Figure 1). Access is via the sealed Adelaide-Port Augusta road and then via a series of sealed and unsealed roads and dirt farm tracks.

EL 3504 is situated on the eastern Eyre Peninsula and lies within the Port Augusta (SI53-4) 1:250,000 map sheet.

The terrain is dominated by generally open saltbush covered plains, dune fields and samphire/saltbush covered swampland surrounding the northern extension of Spencer Gulf.

Exploration work during the reporting period has comprised continuing review of previous geophysical data and completion and interpretation of a detailed gravity survey.

The principal exploration targets for the area are IOCG copper-gold mineralisation and gold vein style mineralisation associated with fault structures. A new target has now been identified from the gravity survey which suggests potential for palaeochannel uranium style mineralisation.

2.0 TENURE

Exploration Licence 3504 (Port Augusta) was granted to Minop Pty Ltd on the 18th January 2006. The tenement covers an area of approximately 53 km^2 (Figure 1). A renewal with a reduction in area to approximately 35 km^2 was granted in January 2008, and a further renewal with a reduction in area to approximately 27 km^2 is currently pending.

3.0 PREVIOUS EXPLORATION

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. However, no drilling of geophysical basement targets under cover has been completed in the area of the tenement.

The project area has been subject to limited exploration by various companies over the past few decades. Exploration has been carried out for a range of commodities including petroleum, gold, copper-gold and diamonds.

4.0 REGIONAL GEOLOGY

The Port Augusta exploration licence covers a section of the eastern portion of the southern Gawler Craton, and covers a section of the interpreted Torrens Hinge zone which separates the flat lying Neo-Proterozoic sequence of the Stuart Shelf from the more strongly deformed sediments of the Neo-Proterozoic Adelaide rift sequences.

There is no previous exploration drilling in the area and the nearest outcrop of Neo-Proterozoic lies to the west of the tenement area. Depth to basement in the area is unknown. An indeterminate thickness of Tertiary to Recent sediments comprising the Pirie Basin and younger sequences covers the area.

Extensive dune fields and playa lake sediments occur as surficial deposits associated with the upper reaches of Spencer Gulf.

5.0 EXPLORATION ACTIVITIES

A detailed gravity survey was competed over the area, with a total of 390 new gravity stations recorded. Data was collected on a 200 x 200 metre grid, with stations covering a major portion of the tenement area. Station locations are shown on Figure 3, and data from the survey is contained on the attached CD in digital form as Appendix 4.

Interpretation of the gravity data in conjunction with available magnetic information has downgraded the potential of the area to host large scale IOCG mineralisation at potentially economic depths. However, interpretation of the data has indicated that there are potentially 2 approximately north-south trending palaeochannels in the tenement area which may have potential for palaeochannel hosted uranium mineralisation similar to Beverley and Honeymoon deposits on the Curnamona Craton.

The survey was completed by Daishsat and the operations report for the survey is included as Appendix 1. Reports on the interpretation of the data from the survey are contained as Appendices 2 and 3.

6.0 EXPENDITURE

Expenditure over the licence area totalled $60,970 during the reporting period, and is broken down by expense in the table below: –

Staff Salaries & wages	$11,700
Contract and Consulting Geologists, Field Assistants	$4,800
Safety, Health and Environment	$0
Ground geophysical surveys, Consultants and Interpretation	$32,900
Drilling	$0
Drilling Consumables	$0
Assaying	$0
Communications	$192
Equipment Hire	$0
Printing and Digital Data	$65
Tenure Maintenance	$0
Field Expenses	$280
Travel & accommodation	$1,100
Vehicle hire/fuel/maintenance	$1,980
Administration overheads	$7,953
TOTAL	**$60,970**

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 3504 covers a portion of the eastern Eyre Peninsula, an area considered prospective for IOCG style mineralization associated with the Torrens Hinge Zone and gold mineralization in structures related to faulting within this zone. A further target has emerged in the area as a result of the gravity survey completed, with 2 palaeochannels identified which may have potential for uranium mineralisation.

No outcrop occurs in the area and previous drilling has been for engineering purposes only. No clear indication of basement depth is available, but Neo-Proterozoic sediments occur immediately to the west of the area.

Exploration in the next period will consist of a further review of the detailed gravity data with follow up drilling of the interpreted palaeochannel areas.

APPENDIX 1

Daishsat Geophysical Report

MARK SELGA
PORT AUGUSTA GRAVITY SURVEY

FEBRUARY - MARCH 2008

Report Number 08009

GA Coopes

CLIENT

Mark Selga

CLIENT CONTACT

Mark Selga
1 Trentbridge Road
Hope Valley SA 5090
Ph: 83996965

SURVEY CONTRACTOR

DAISHSAT PTY. LTD
P.O. Box 766
MURRAY BRIDGE S.A. 5253
Tel: (08) 8531 0349
Fax: (08) 8531 0684

CONTRACTOR CONTACT

Mr. David Daish
Mob: 0418 800 122
Email: david.daish@daishsat.com

CONFIDENTIAL

FOR MARK SELGA ONLY

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1. INTRODUCTION

A precision GPS-Gravity survey was carried out during February and March 2008 for Mark Selga. A total of 390 new stations were surveyed at the Port Augusta prospect, South Australia.

Gravity data was acquired using a Scintrex CG-5 digital gravity meter. Position and level data was obtained using Leica GPS units to produce precise real-time-kinematic locations. All data was acquired using Daishsat foot-borne methods.

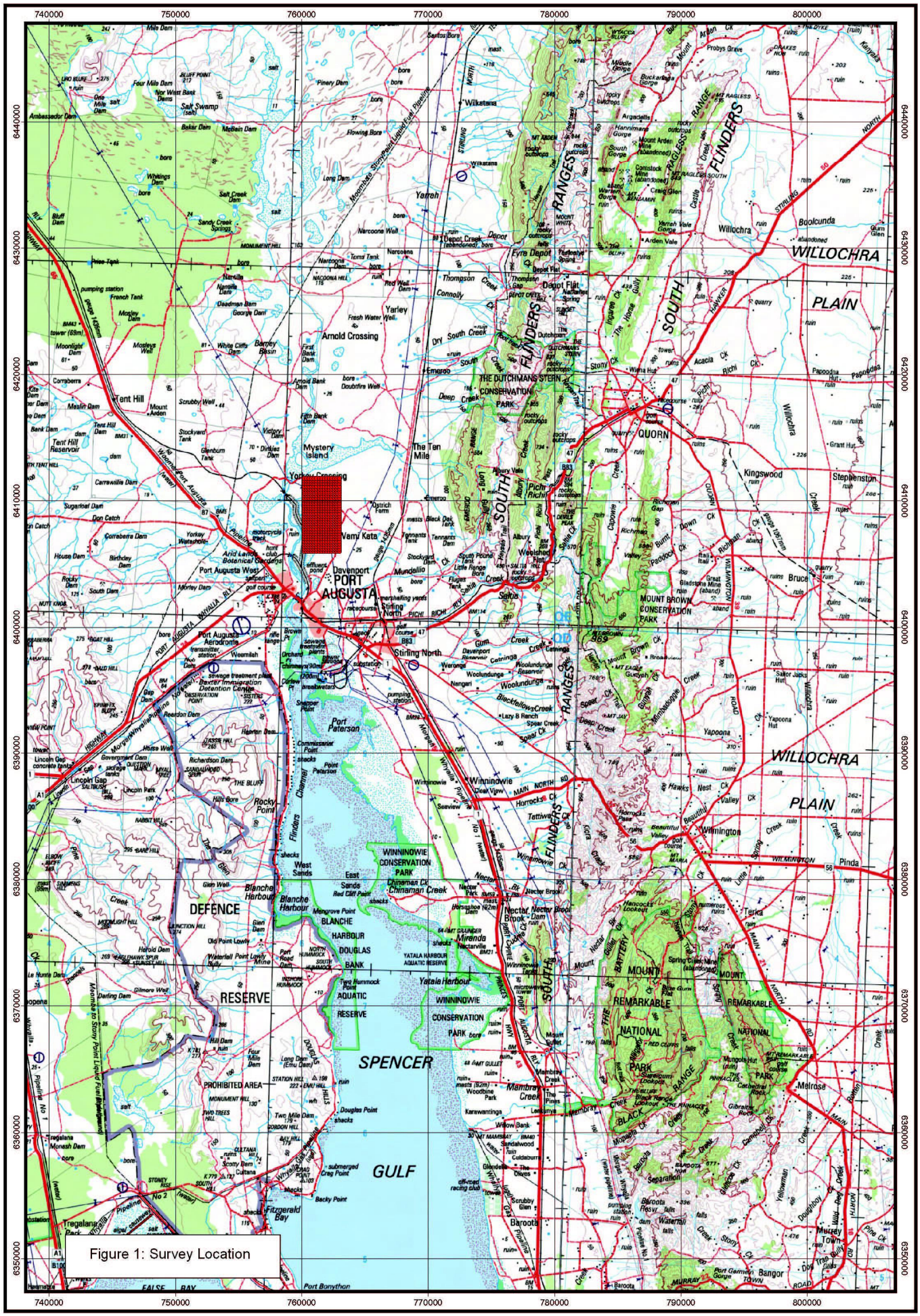
Gravity data was reduced using standard reductions on the ISOGAL84 gravity network. GPS data were reduced to AGM coordinates with levels expressed as meters above the Australian Height Datum.

2. SURVEY OVERVIEW

The gravity survey covered an area of 16.25 km^2 just to the north of the town of Port Augusta, South Australia. The location of the survey is shown in Figure 1.

The Port Augusta survey consisted of 200m station spacings and 200m line spacings. Specifications for the survey area are contained in Appendix C. Appendix A contains a station plot for each area. The terrain encountered during the survey was fairly open and sandy with the vegetation thickening towards the south. There were also some areas with muddy clay pans.

Photo 1: Typical terrain within the survey area.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PORT AUGUSTA
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Stirling North
Port Augusta West
Port Augusta Aerodrome
Arid Lands Botanical Gardens
Yarrah
Wami Kata
Mystery Island
The Ten Mile
Arnold Crossing
Yarley
Tent Hill
Mount Arden
Willochra
Boolcunda
WILLOCHRA PLAIN
QUORN
Kingswood
Stephenston
Bruce
Pichi Richi
Port Paterson
Winninowie
Wilmington
Pinda
Terka
Melrose
Baroota
Bangor
DEFENCE RESERVE
PROHIBITED AREA
SPENCER GULF
WINNINOWIE CONSERVATION PARK
MOUNT BROWN CONSERVATION PARK
THE DUTCHMANS STERN CONSERVATION PARK
MOUNT REMARKABLE NATIONAL PARK
FLINDERS RANGES
Port Augusta to Stony Point Liquid Fuel Pipeline
Moomba to Stony Point Liquid Fuel Pipeline
Figure 1: Survey Location

3. PERSONNEL AND EQUIPMENT

3.1 Personnel

The supervisor in charge of the project was Gavin McPherson. Gavin was responsible for daily management of the job and for nightly data processing to ensure quality and integrity. Gravity and GPS measurements were carried out by:

Gavin McPherson, crew leader
Steve Doyle, field technician
Jason Schultz, field technician

Final data reduction, image processing and inspection were performed by the company geophysicist, Grant Coopes.

3.2 Survey equipment

- One Scintrex CG-5 Gravimeter (I meter - SN 40291)
- Leica System 1200 & 500 dual frequency GPS receivers
- UHF Pacific Crest Data Modem/Radios
- Garmin Handheld GPS receivers for navigation
- Two IBM notebooks for data processing and backup
- Various chargers, surveying equipment and batteries

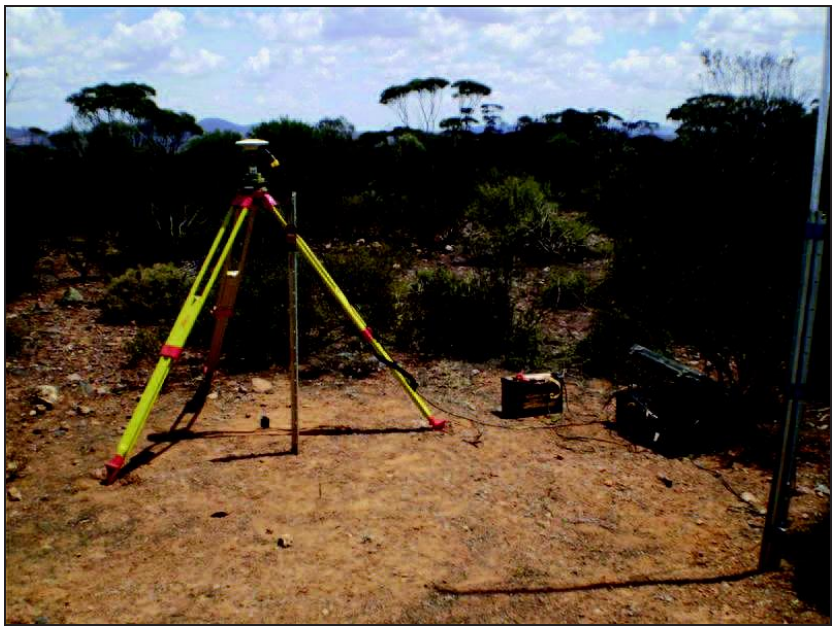


Photo 2: Leica Real-Time-Kinematic GPS Base.

3.3 Vehicles

Due to the type of terrain to be encountered, 4WD Landcruiser vehicles were used for the duration of the survey. On the survey the vehicles was used for transport to and from site as well as access into the survey area.

To maintain the high Daishsat safety record, vehicles were fitted with a range of safety equipment including:

- Omnitrack GPS tracking / communications system
- Dual fuel tanks
- Spare tires, tubes and tyre repair kit
- Satellite phone and UHF Radio
- Self-recovery equipment including, on board winch, snatch straps and rope
- Tools and spares to enable field repairs as necessary
- Survival kit with EPIRB emergency locator beacon

3.4 Accommodation

The crew stayed in on-site units at the Big4 Caravan Park in Port Augusta for the duration of the survey.

3.5 Communications

The survey crew was equipped with a hand-held satellite / CDMA phone when working away from the vehicle. “Omnitrack” satellite based tracking was used on all vehicles to enable asset monitoring via a web interface.

Scheduled communication and data exchanges with the Perth and Murray Bridge offices were ongoing for the duration of the job.

4. GPS SURVEYING AND PROCESSING

4.1 Set out of the grid

This was done concurrently with the gravity data acquisition using the Leica 1200 GPS operating in real time kinematic mode. Where possible, the readings were taken as close to the ideal coordinates as possible. Some stations were offset or omitted due to the nature of the terrain, e.g. hilly or thickly vegetated areas. As the Leica System was operating in precise RTK mode, set out accuracy was better than 5cm. At the repeat stations, a washer tied to pink flagging, marked with the station number, was used for identification. At each station, the station number, position and RL were recorded digitally by the GPS crew.

4.2 Survey datum and control

The gravity surveying, and hence any gravity reductions, used the Australian Height Datum (AHD) as the reference datum. All new GPS/Gravity base stations were established using two days worth of static data, and connections to ITRF stations using Geoscience Australia's online GPS processing system, AUSPOS. For more information on this system, please visit http://www.ga.gov.au/geodesy/sgc/wwwgps/index.jsp. Final deviations of better than 5mm were obtained for x, y and z, for all occupations. Appendix D contains the GPS base station information.

4.3 Processing of the position and level data

The real-time kinematic GPS data was recorded on removable CF cards, which were downloaded onto the laptops daily. All data is processed in real time, so no further processing was required. Simple transformations to MGA and AHD were done using the GPS derived WGS84 positions.

MGA94 coordinates were obtained by simply projecting the GPS-derived WGS84 coordinates using a UTM projection with zone 53S. For all practicable purposes, the WGS84 geodetic coordinates are equivalent to GDA94 geodetic coordinates, so no transformation is necessary. For more information about GDA94 and MGA94, please visit http://www.ga.gov.au/geodesy/datums/.

AHD heights were calculated using Leica's premier GPS software package – Leica Geo Office – which utilises the latest geoid model for Australia, AUSGEOID98. Information about the geoid, and the modelling process used to extract separations (N values) can be found at http://www.ga.gov.au/geodesy/ausgeoid/.

5. GRAVITY ACQUISITION AND PROCESSING

5.1 Gravity data acquisition

Gravity observations were made simultaneously with the GPS observation. Two observations were made for each station so that any seismic or instrumental noise could be immediately detected. Each observation consisted of a 20-second or greater stacking time. The accepted tolerance between readings was limited to 0.030 of a dial reading to ensure accuracy. Vertical and horizontal levels were restricted to 10 arc seconds at all times.

At each station, the station number, time and two gravity readings (in dial units) were recorded in Daishsat carbon-copy gravity field books. The Scintrex CG-5 also automatically records the station, time and readings digitally to allow for downloading to computer.

Photo 3: GPS and Gravity Acquisition.

5.2 Gravity base stations

A gravity base station was used for calculation of absolute gravity and drift determination. The base used for the Port Augusta survey was established as a new Daishsat base which was then tied to the AFGN using multiple loops. Details of the gravity bases utilised on the survey are contained in Appendix D. When in the field, a base station reading was taken in the morning before observing, and at evening after the last observation. When taking a base station reading, the observed gravity values were stacked over 120 seconds to ensure accuracy. Observations were repeated until the readings repeated to 0.010 of a dial reading or less.

5.3 Gravity data processing

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

Other software used on this project includes Arcview, ChrisDBF, and Oasis Montaj. The formulae used in the gravity reduction are listed below:

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

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

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

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

$$Gt=978031.856 *(1+0.005\ 278\ 895*\sin^2\phi+0.000\ 023\ 462*\sin^4\phi)$$

where ϕ represents degrees of latitude

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

$$FA = 0.308596 \times h_{AHD}$$

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

$$BC = 0.0419088 \times \rho \times h_{AHD}$$

where ρ = density (2.67 gm/cc)

Free Air Gravity: This is obtained by applying the free air correction (FAC) to the observed gravity reading.

$$FAG=G_{OBSG84}-Gt+FAC$$

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

$$BG267=G_{OBSG84}-Gt+FAC-BC$$

Complete Bouguer Anomaly: This is obtained by adding the terrain correction to the Bouguer Gravity Anomaly.

$$COMPLETE\_BA267=G_{OBSG84}-Gn+FAC-BC+TC$$

5.4 Gravity meter calibration and scale factors

The gravity meter used had previously been calibrated over a number of calibration ranges. A derived scale factor from these calibrations is shown below:

Meter	Serial Number	Scale Factor
I	40291	1.00018

6. RESULTS

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

6.1 Stations Surveyed and Survey Progress

In total, 390 new stations were acquired during the project. A brief production summary for the area is shown in Table 1 below. Production varied depending on terrain, station spacing and access to the area, but the crews were typically able to achieve rates of ~60 stations per day. Some downtime was encountered due to problems with access to private land.

Fifield		
Gravity stations acquired (including repeats)	**420**	stations
Gravity station repeats	**30**	7.1 %
New gravity stations acquired	**390**	stations
Total accidents	**0**	accidents
Total hours lost from accidents	**0**	hours

Table 1: Production Summary

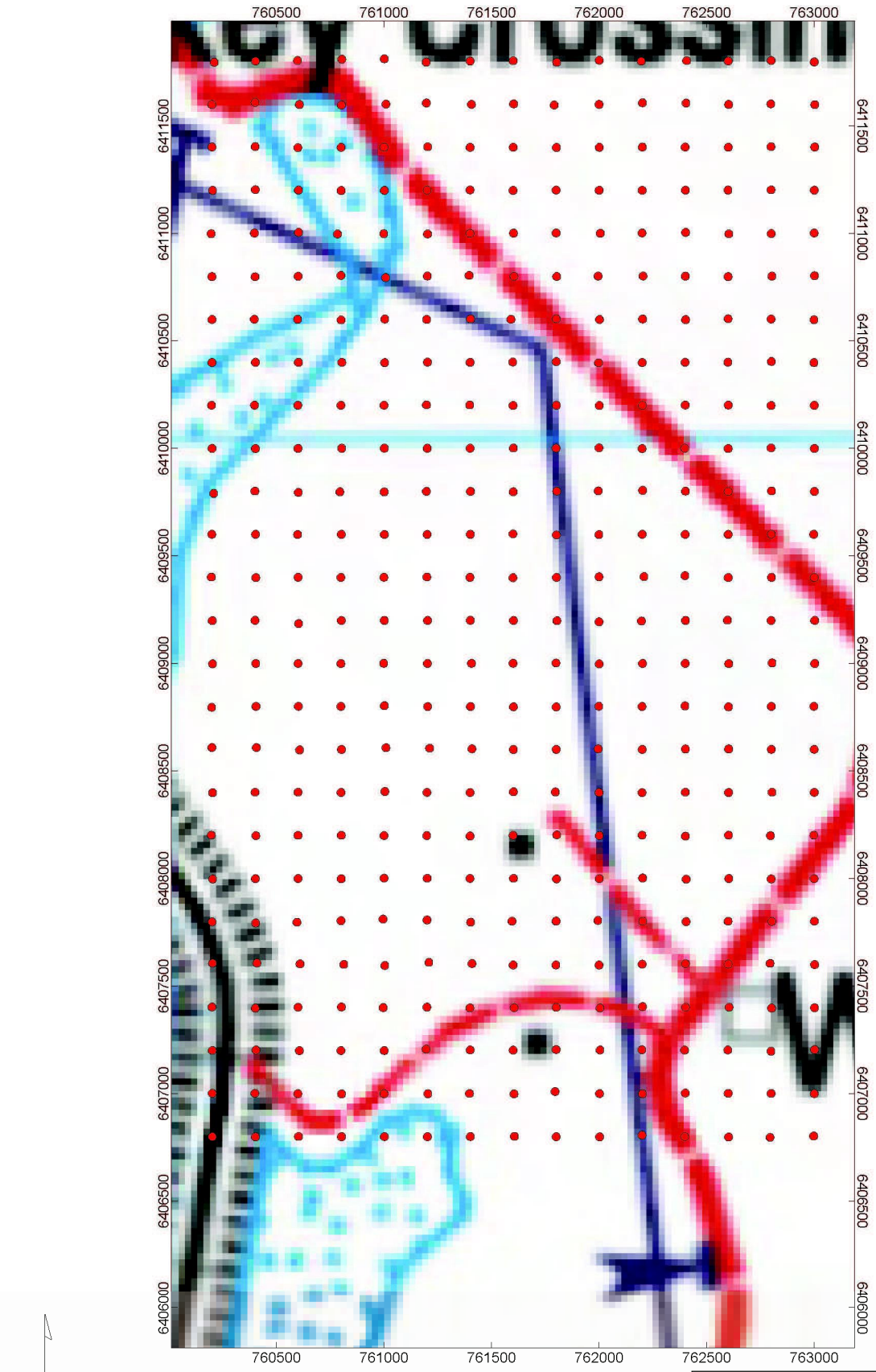
6.2 Data Repeatability

Analysis of the repeat data shows that measurement repeatability is excellent for both GPS and Gravity observations. A combined analysis for each of the surveys is included in Appendix B. Based on the repeat data, one can assume the following typical accuracies for the observables:

Z position observation: < 0.009 m
Gravity observation: < 0.012 mGals

APPENDIX A

Plots of station location / Images



Scale 1:18750

250 0 250 500

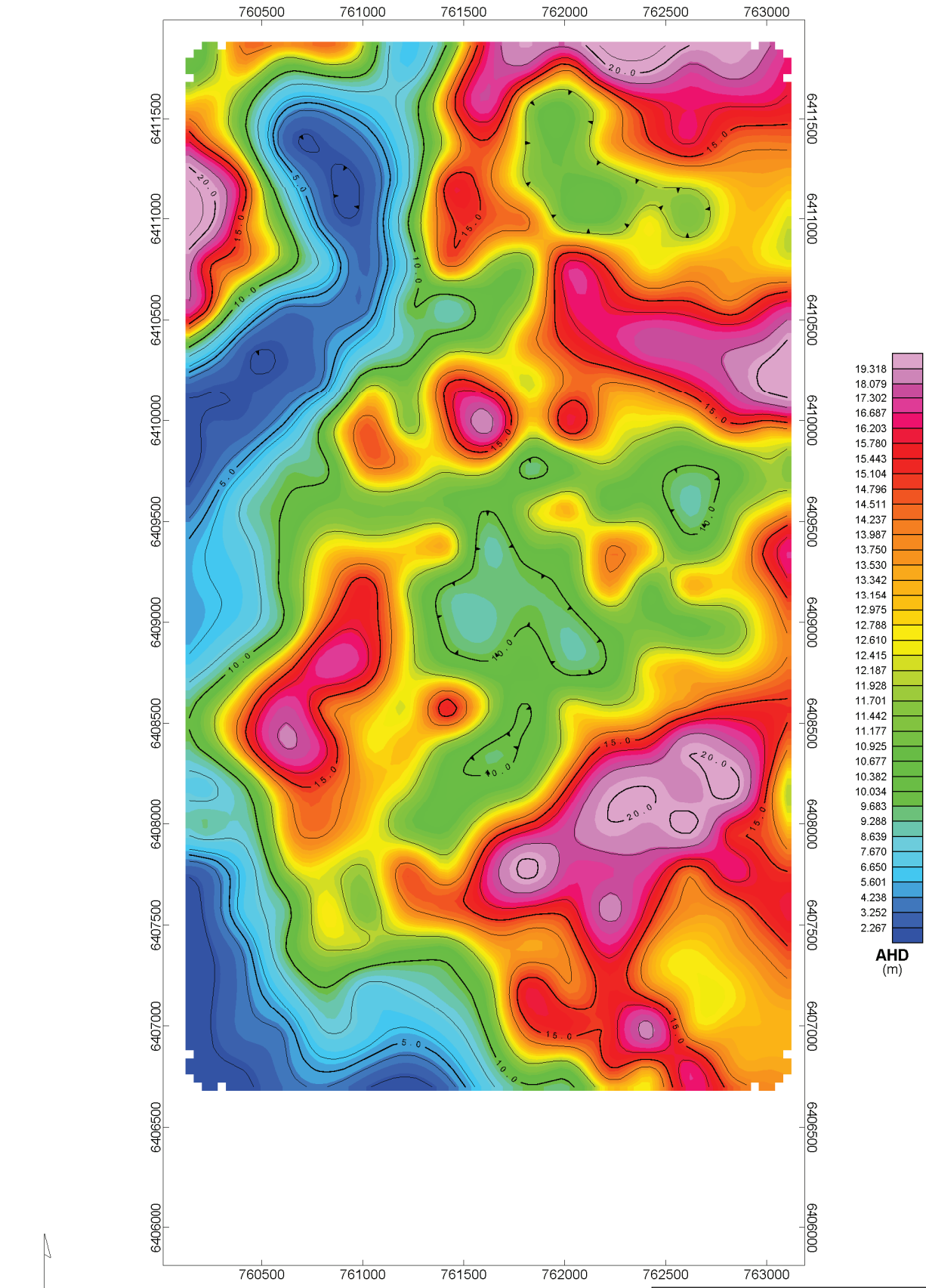
(meters)

08009 MARK SELGA

Port Augusta Gravity Survey
Plot Of Gained Stations

Survey By: Daishsat Geodetic Surveyors
February - March 20008
www.daishsat.com

Drawn By: G.A. Coopes



Scale 1:18750

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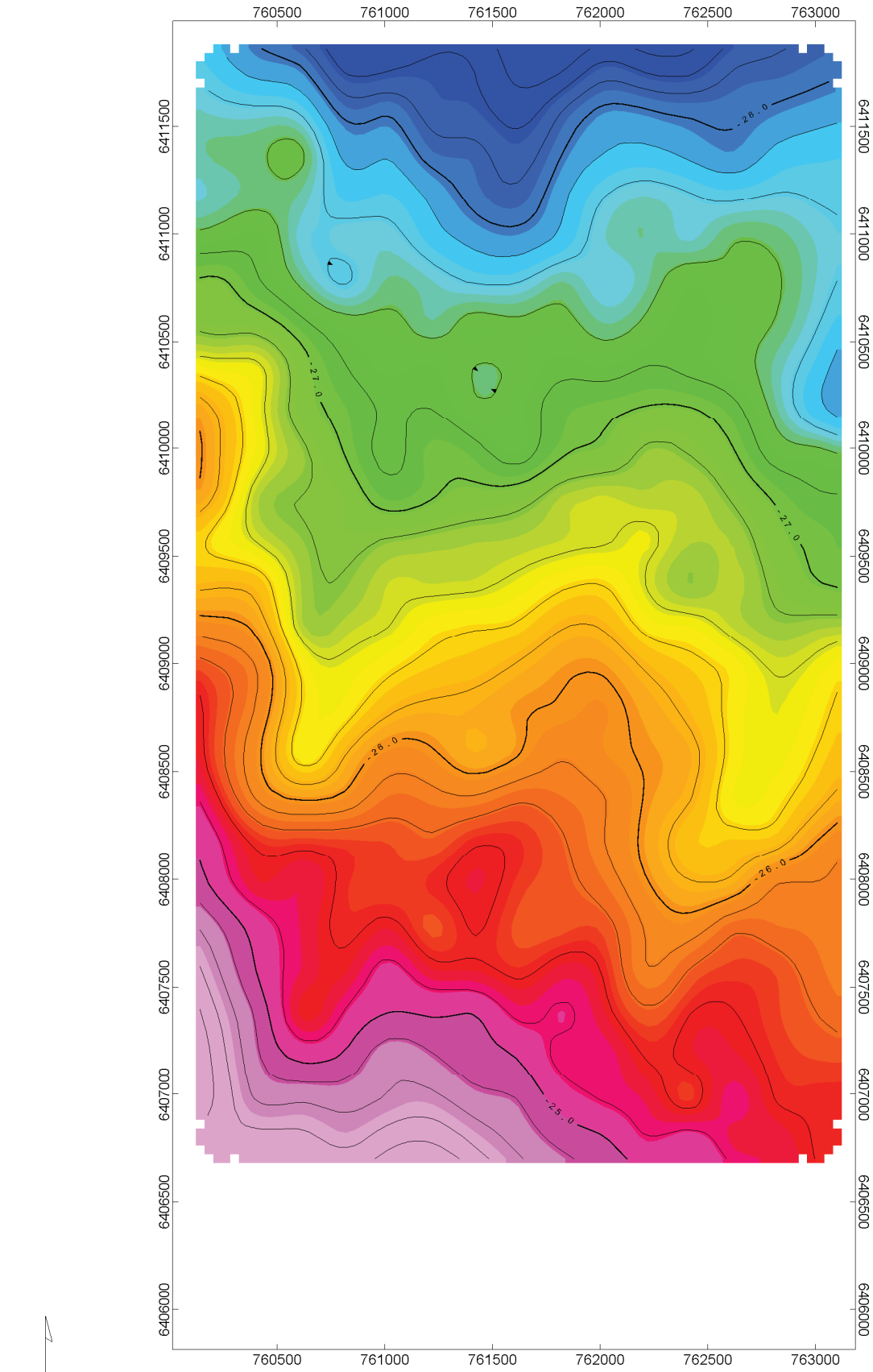
(meters)

08009 MARK SELGA

Port Augusta Gravity Survey
Image Of GPS Derived Station Elevations
Histogram Equalisation, Contour Interval 2.0m

Survey By: Daishsat Geodetic Surveyors
February - March 20008
www.daishsat.com

Drawn By: G.A. Coopes

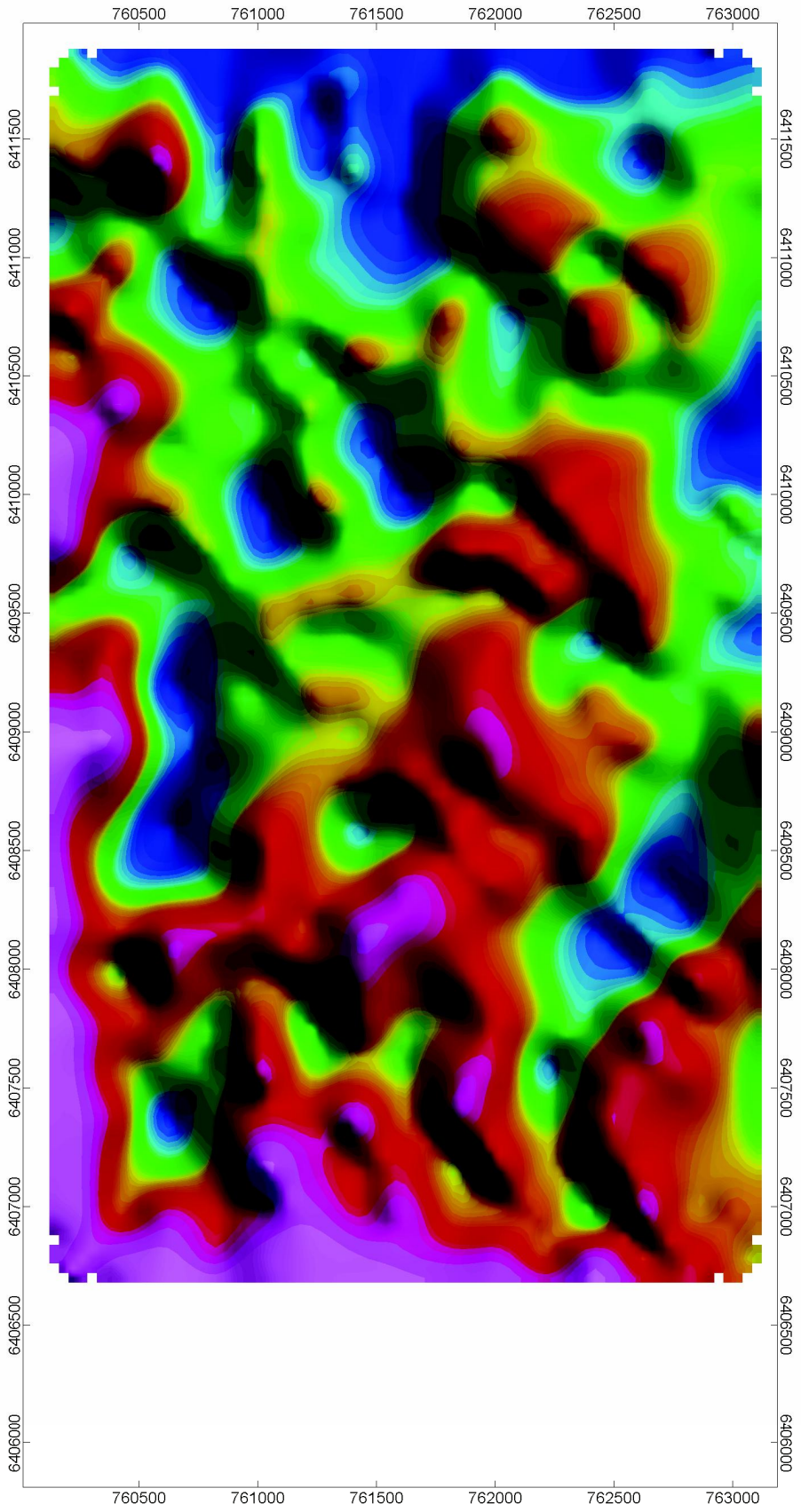


08009 MARK SELGA

Port Augusta Gravity Survey
Image Of Bouguer Gravity 2.67 gm/cc
Histogram Equalisation, Contour Interval 0.2 mGal

Survey By: Daishsat Geodetic Surveyors
February - March 20008
www.daishsat.com

Drawn By: G.A. Coopes



Scale 1:18750

250 0 250 500

(meters)

08009 MARK SELGA

Port Augusta Gravity Survey
Image Of 1VD Of Bouguer Gravity 2.67 gm/cc
Histogram Equalisation, NE Sunshading

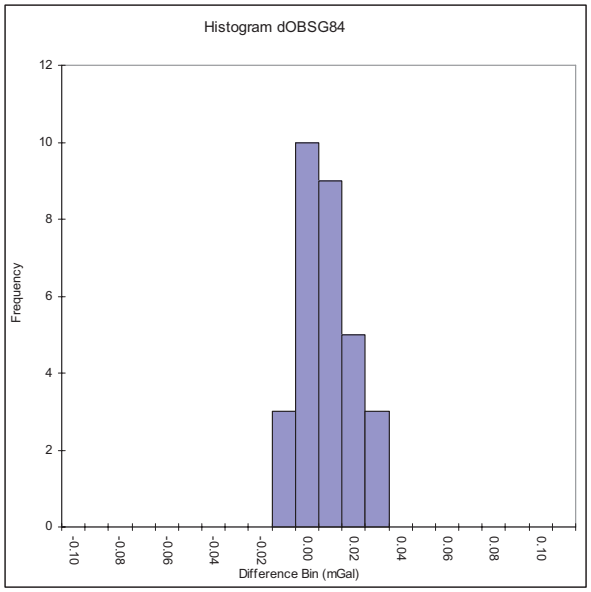
Survey By: Daishsat Geodetic Surveyors
February - March 20008
www.daishsat.com

Drawn By: G.A. Coopes

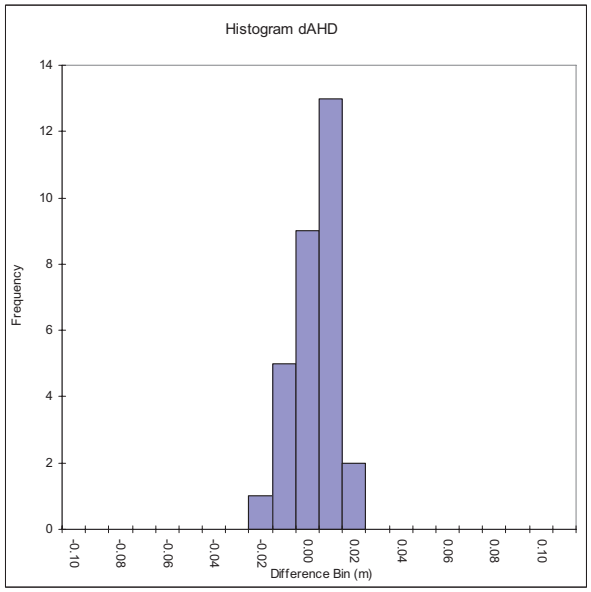
APPENDIX B

Repeat Tabulation and Analysis

Repeatability of OBSG84



Repeatability of AHD



Summary Statistics

Summary Table	*dAHD*	*dOBSG*
Mean	0.000	0.004
Standard Error	0.002	0.002
Median	0.001	0.002
Mode	0.007	-0.008
Standard Deviation	0.009	0.012
Sample Variance	0.000	0.000
Kurtosis	0.130	-0.037
Skewness	-0.644	0.534
Range	0.040	0.044
Minimum	-0.024	-0.014
Maximum	0.016	0.030
Sum	-0.012	0.110
Count	**30**	**30**

APPENDIX C

Survey Specifications

Port Augusta

Client	Mark Selga
Survey Name	Port Augusta
Operators	Gavin McPherson, Steve Doyle, Jason Schultz
Techniques Employed	GPS, Gravity
Station Spacing	200m
Line Spacing	200m
Gravity Meter	Scintrex CG5 I – SN: 40291
GPS	Leica 1200 & Leica 500 – Base 2006
Number of Points Surveyed	420
Gravity Base	Daishsat Base 2006
Date of Survey	24th February to the 6th March 2008

APPENDIX D

Base Station Information

GPS/Gravity Base 0389 Port Augusta

MGA94

EASTING (m)	762167.137
NORTHING (m)	6408108.294
ZONE (UTM)	53 South
HEIGHT (AHD, m)	25.623

GDA94

LATITUDE (DMS)	32° 25' 59.9910" S
LONGITUDE (DMS)	137° 47' 17.8495" E
GDAHT (m)	22.039
N (AUSGEOID98, m)	-3.584

OBSERVED GRAVITY

979488.412 mGals

SURVEYED BY

GPS – Daishsat using a multiple static sessions and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – Daishsat, using A-B-A ties to the Fundamental Gravity Base 1994931128 at the Port Augusta Public Library.

MISCELLANEOUS DETAILS

This station consists of a small steel pin protruding from the ground by 30mm and is witnessed by a Daishsat survey plaque, placed on a large star picket ~ 0.3m to the right.

The station is located approximately 7.2km NNE of Highway 1 in Port Augusta via Tassie Road, which shortly after passing beneath a high tension power line at approximately 6.1km, offers access via a dirt track to the left accompanying the power line, to "Ker Finismor" (signed), and its homestead of sorts a further 1.1km N along on the left. Some 50 m beyond the entrance, but to the right, is a rough track leading a further 75m E to a low rise (dune) and a solitary dead tree 5m beyond which on the west facing slope, is the station.

Photos of Base 0389 with distinguishing features in background

APPENDIX E

Data DVD
(Attached to back cover)

APPENDIX 2

AMG Consultants Report – Gravity and Magnetic Images

AMG

James E. Hanneson, PhD Consulting Geophysicist

ADELAIDE MINING GEOPHYSICS Pty Ltd 24 Justine Street, Flagstaff Hill, South Australia, Australia, 5159
ABN 77 085 429 698 tel: (08) 8370-7493 fax: (08) 8370-7364 email: jim.hanneson@bigpond.com

MEMORANDUM

To: Mr. Mark Selga **Affiliation:**

From: Jim Hanneson **Costing:**

Date: 26 April, 2008 **Reference:** AMG08/27

Subject: **Gravity and Magnetic Images for the Pt Augusta North Prospect, South Australia**

INTRODUCTION AND SUMMARY

I am in receipt of new gravity data collected by Daishsat Surveys Pty Ltd in February 2008 and provided by you, which I have used to create gravity images for an unnamed prospect north of Port Augusta. Aeromagnetic images using PIRSA archive have also been created for the area.

In summary, a gravity image was created using a covariance-minimizing density of 1.84gm/cc which suggests that the hills and valleys in the surface topography are predominantly comprised of unconsolidated sediments. The residual gravity image, which is probably the best indication of subsurface density variations, shows a NNE trending high having an amplitude of perhaps 0.2 mgal. (For comparison Carrapateena is known to have an amplitude of between 1 and 2 mgal). By way of risk assessment, it is noteworthy that variations only 6m in the thickness of unconsolidated cover overlying denser bedrock (0.8gm/cc density contrast) can give rise to gravity variations of about 0.2mgal.

Many iron-oxide-copper-gold explorers consider coincident or near-coincident magnetic and gravity anomalies to be key ingredients in prospect definition, but in the present study area there are no obvious features in the residual magnetic image that correlate with the weak residual gravity high. Also, since unconsolidated sediments tend to be magnetically unresponsive, it is reasonable to conclude that features in the residual magnetic images have bedrock sources.

The weak residual gravity anomaly and the poor correlation with any residual magnetic features suggest to me that the residual gravity high may be caused by variations in the thickness of the unconsolidated cover. If you have good geological or geochemical indicators you may wish to discount my pessimistic assessment which is based on the geophysical data alone.

DATA

Gravity Data

Figure 1 shows the gravity station elevations, and while the relief is sufficiently subdued that no terrain corrections are necessary, the surface topography is worth consideration in preparing and selecting a final gravity image for use in inferring subsurface densities.

The Bouguer correction is an attempt to correct for the effects of local hills and valleys in the surface topography but to apply the correction the mean density of the hills must be known. As this information is almost always unavailable it must be estimated. Figure 2.1 is an industry-standard Bouguer gravity image prepared using a correction density of 2.67 gm/cc – a value recognized as the average density of crustal rocks. If the image in Figure 2.1 is smoothed, as in Figure 2.2, and if the smoothed image is subtracted from the original image, the effect is to remove unimportant regional variations and yield the residual image shown in Figure 2.3. Residual images enhance short wavelength anomalies more likely to be of economic interest.

If the assumed density for the hills is too low, the Bouguer correction under-compensates for the topography and the final gravity image tends to *mimic* the topography; by contrast if it is too high the final gravity *mirrors* the topography. On comparison of the topography in Figure 1 and the residual gravity in Figure 2.3, a number of residual gravity highs can be seen to correlate approximately with topographic lows and *vice versa*, suggesting that the reduction density of 2.67 gm/cc is too high.

I re-reduced the data a number of times and in each case calculated the correlation coefficient (covariance) between the final gravity and the topography. I also calculated the covariance between the residual gravity and the residual topography (not shown). The results are summarized in the following table.

	C O V A R I A N C E	
Density	**Gravity *vs* Elevation**	**Residual Grv *vs*. Residual Elev**
2.67	-0.0821	-0.6504
2.50	-0.0483	-0.5628
2.20	+0.0119	-0.3457
2.00	+0.0518	-0.1589
1.90	+0.0717	-0.0575
1.85	+0.0818	-0.0052
1.84	+0.0837	+0.0048
1.80	+0.0916	+0.0463

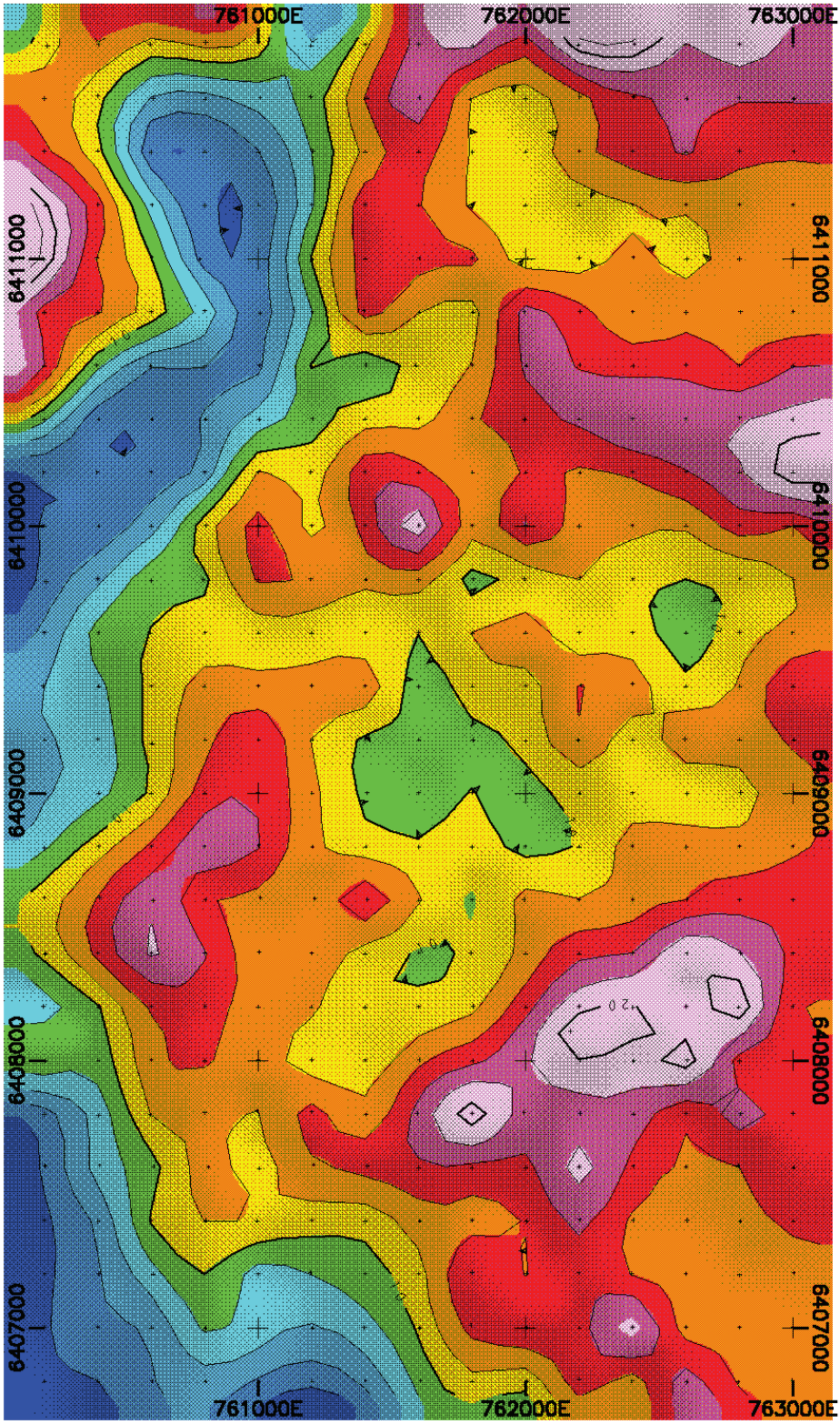
Column 2 suggests that a reduction density of about 2.20 is optimum, but because regional trends can cause unwanted bias, the covariance between the residual gravity and residual elevations (Column 3) tends to be a better indicator of the optimum correction density when economic targets are sought.

When the data is reduced using 1.84 gm/cc the image shown in Figure 3.1 is obtained, and the corresponding residual gravity image is shown in Figure 3.2. Comparison of Figures 2.3 and 3.2 shows the latter to be relatively more independent of the topography in Figure 1 and to exhibit better continuity of the NNE trending residual gravity high in the central part of the image. I believe that Figure 3.2 is the best image to use in making inferences about subsurface density anomalies.

Aeromagnetic Data

The 1995 SAEI B15 (Z53NS) aeromagnetic survey was found to contain data for the present study area. The survey was flown with 400m spaced north-south lines and a nominal sensor height of 80m; the along-track sampling interval is about 7m. The aeromagnetic data is shown in Figure 4.1 and Figure 4.2 is a residual

08\04\26



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Author: JEH
Data File: PA_NORTH.267

Scale 1:25000

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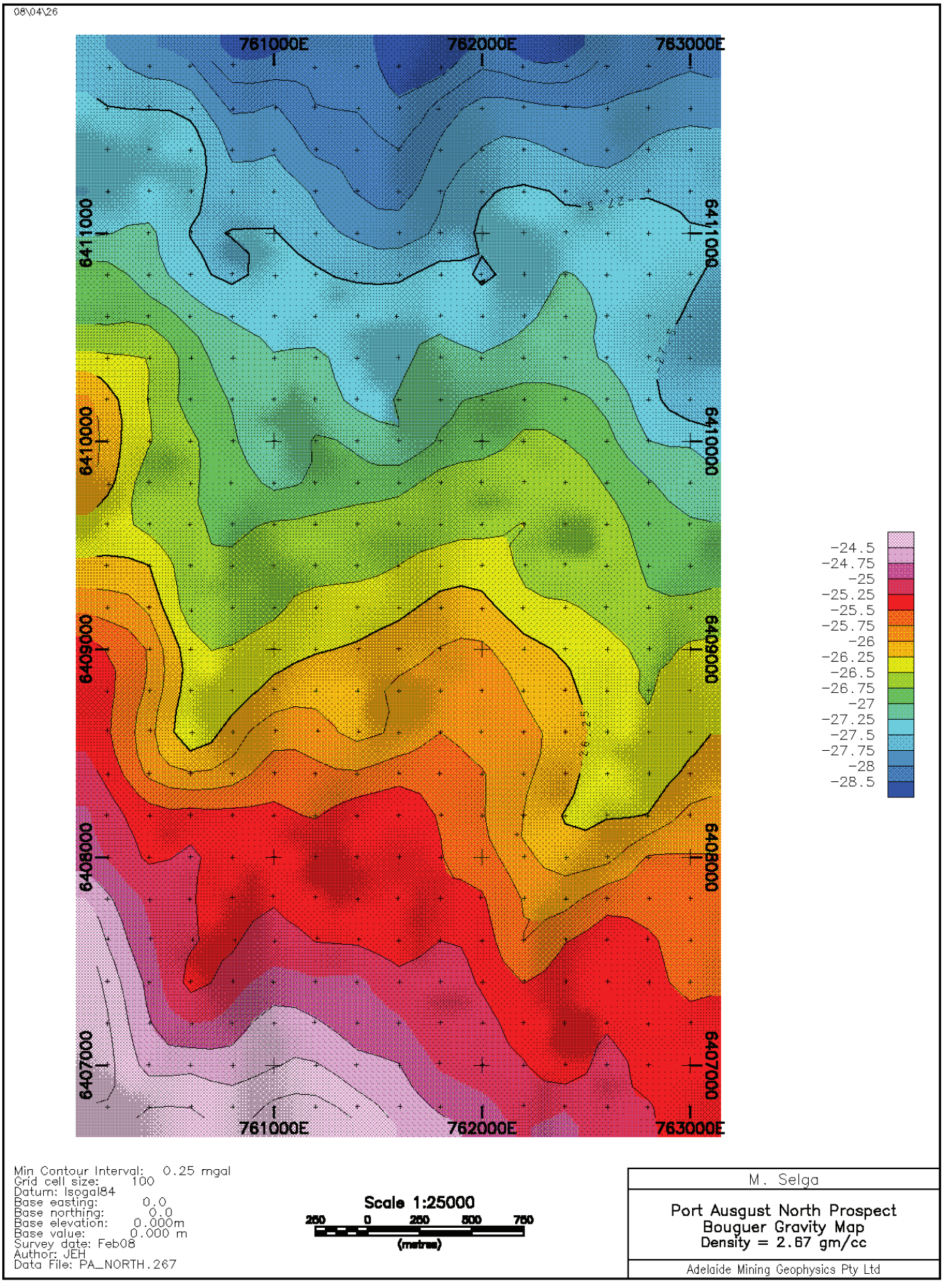
(metres)

M. Selga

Port Ausgust North Prospect
Gravity Station Elevations

Adelaide Mining Geophysics Pty Ltd

Figure 1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Author: JEH
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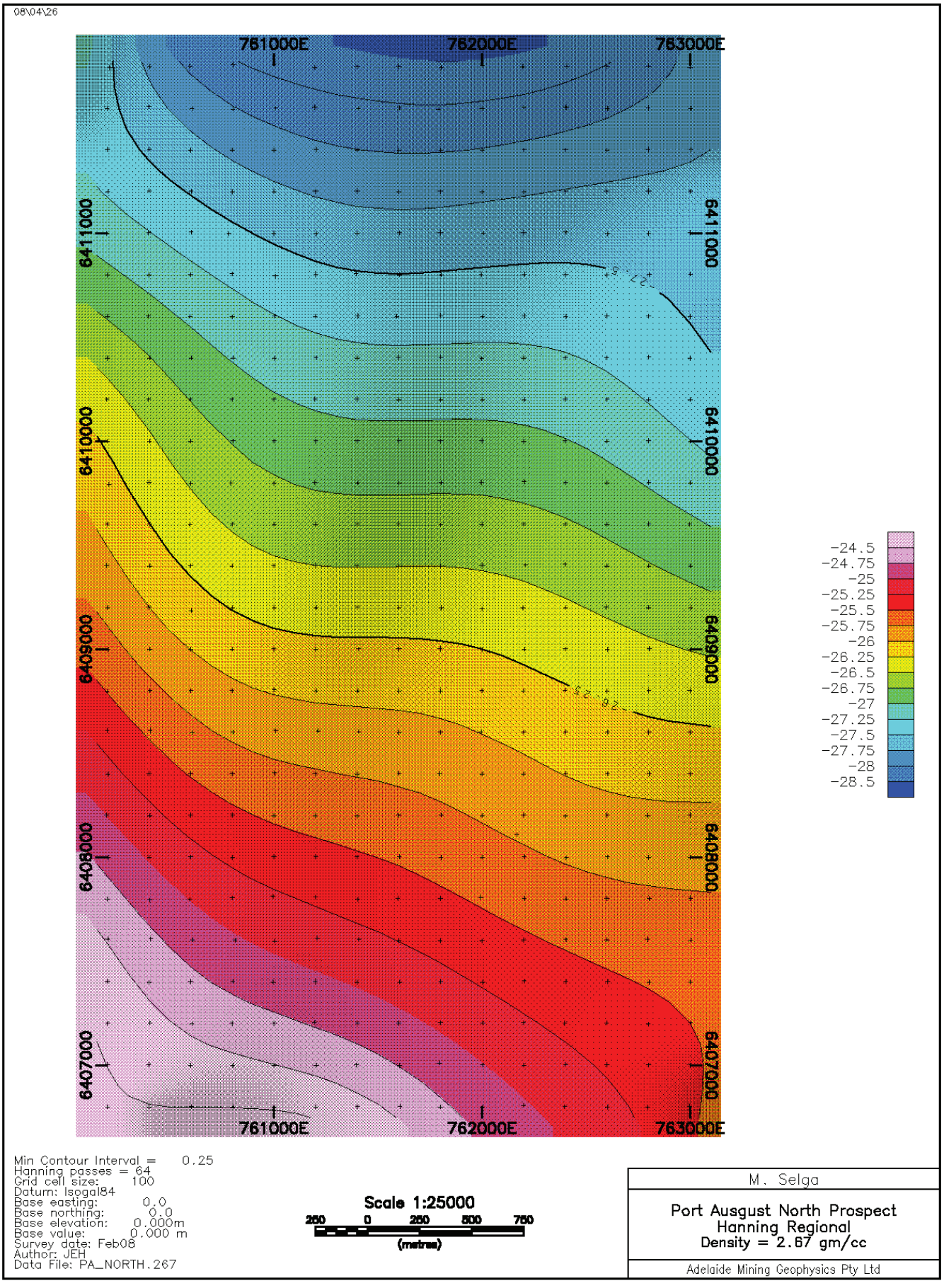
(metres)
M. Selga
Port Ausgust North Prospect
Bouguer Gravity Map
Density = 2.67 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 2.1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Base value: 0.000 m
Survey date: Feb08
Author: JEH
Data File: PA_NORTH.267
Scale 1:25000
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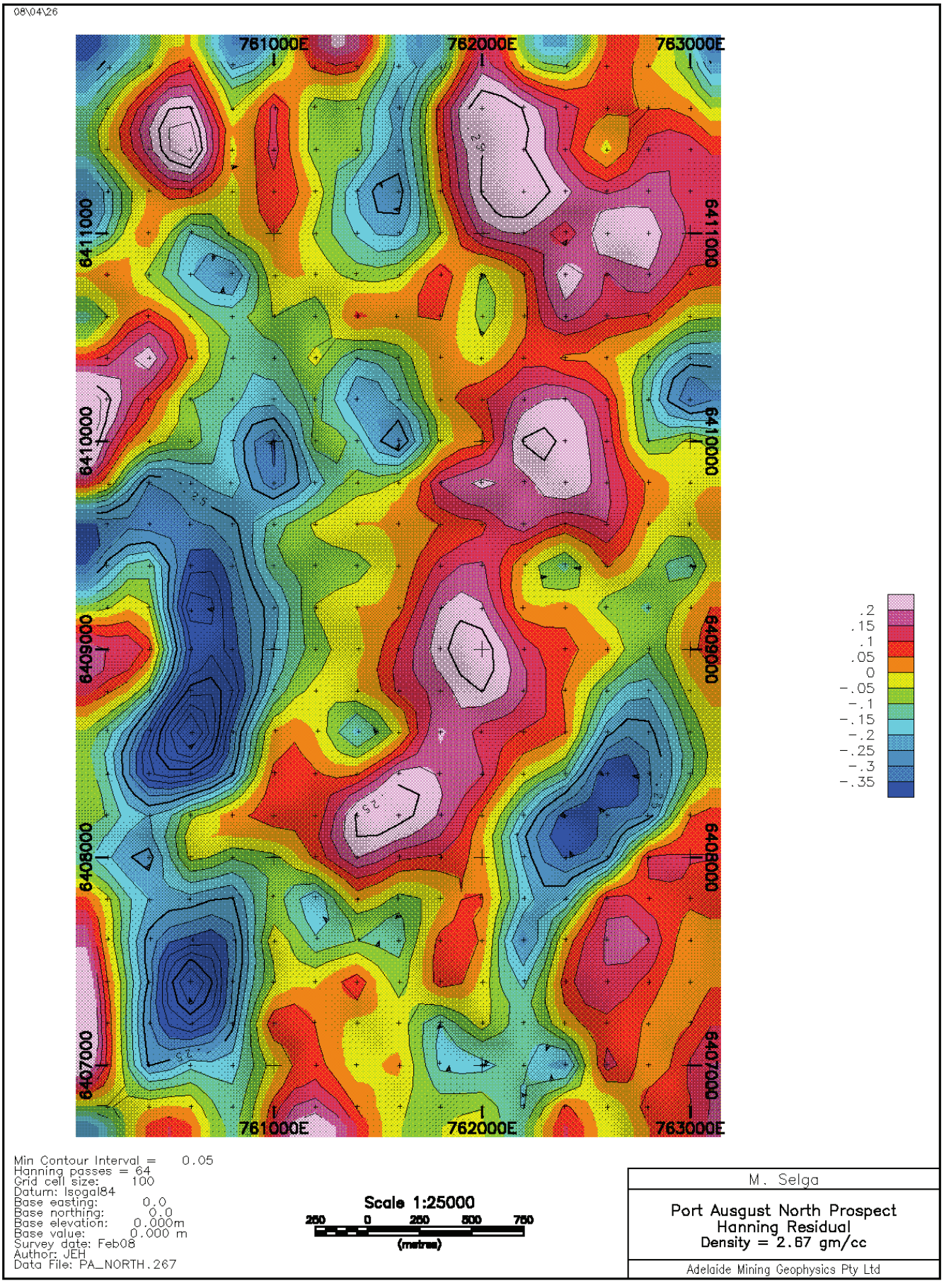
(metres)
M. Selga
Port Ausgust North Prospect
Hanning Regional
Density = 2.67 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 2.2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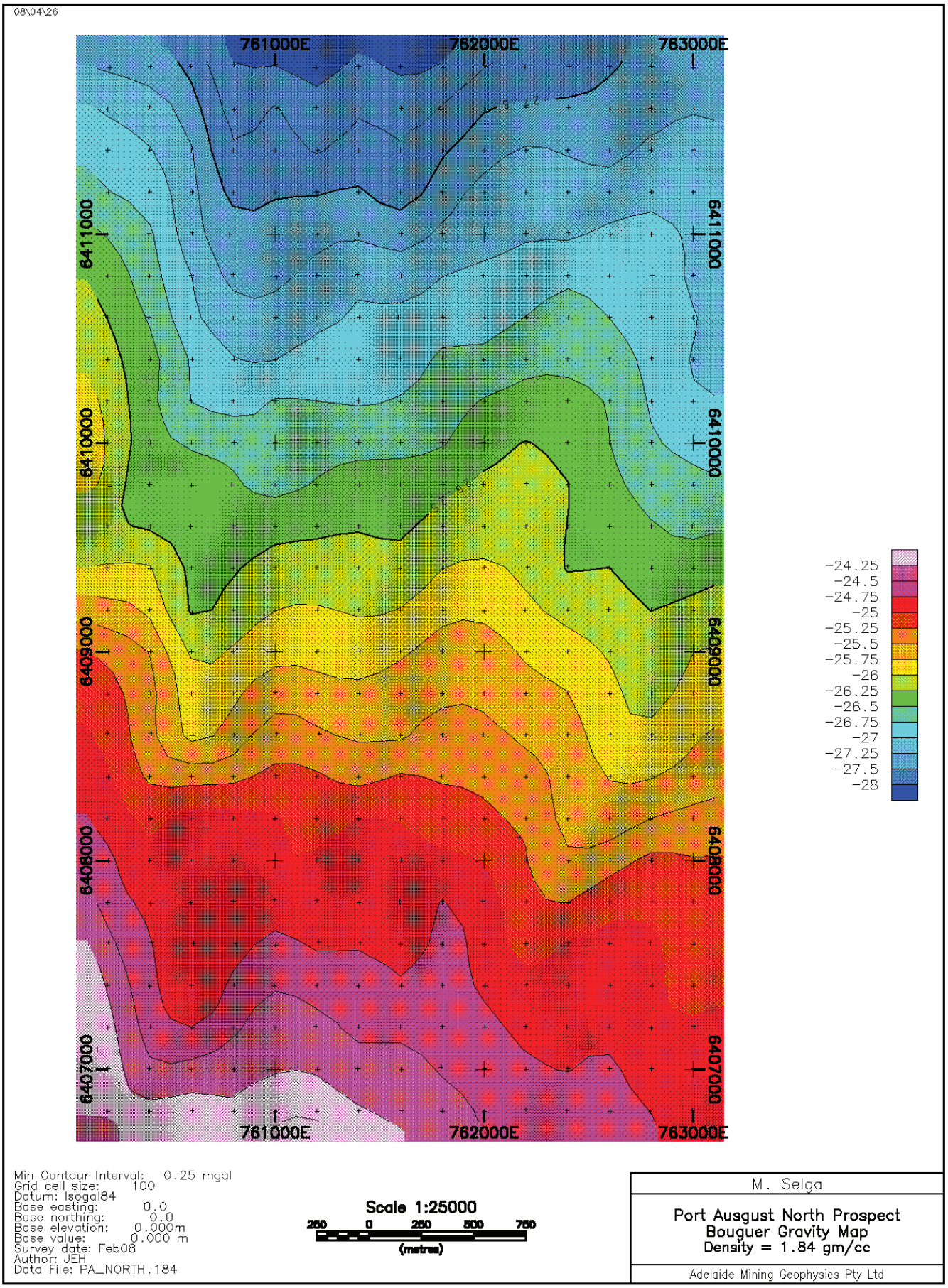
M. Selga
Port Ausgust North Prospect
Hanning Residual
Density = 2.67 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 2.3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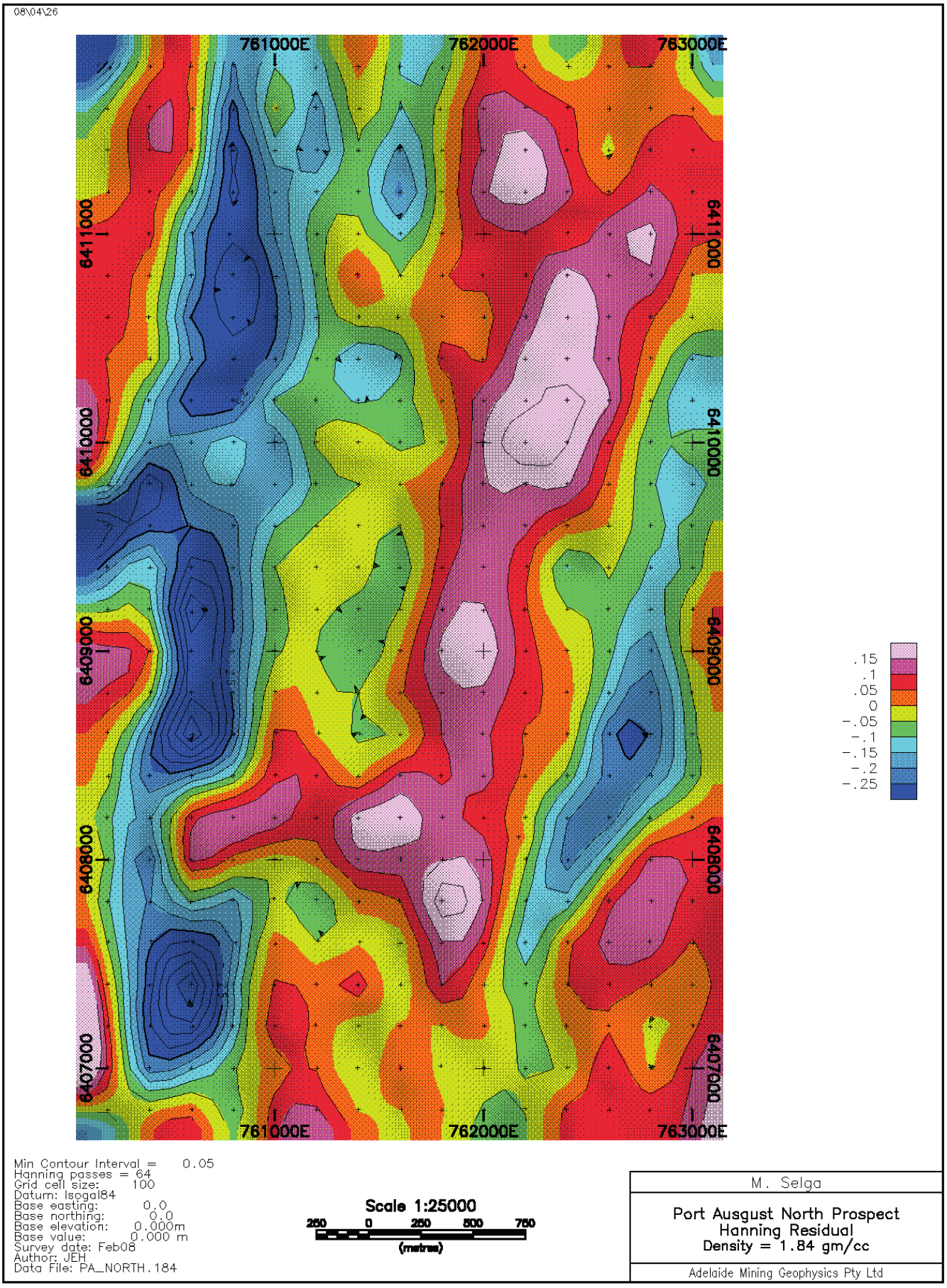
(metres)
M. Selga
Port Ausgust North Prospect
Bouguer Gravity Map
Density = 1.84 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 3.1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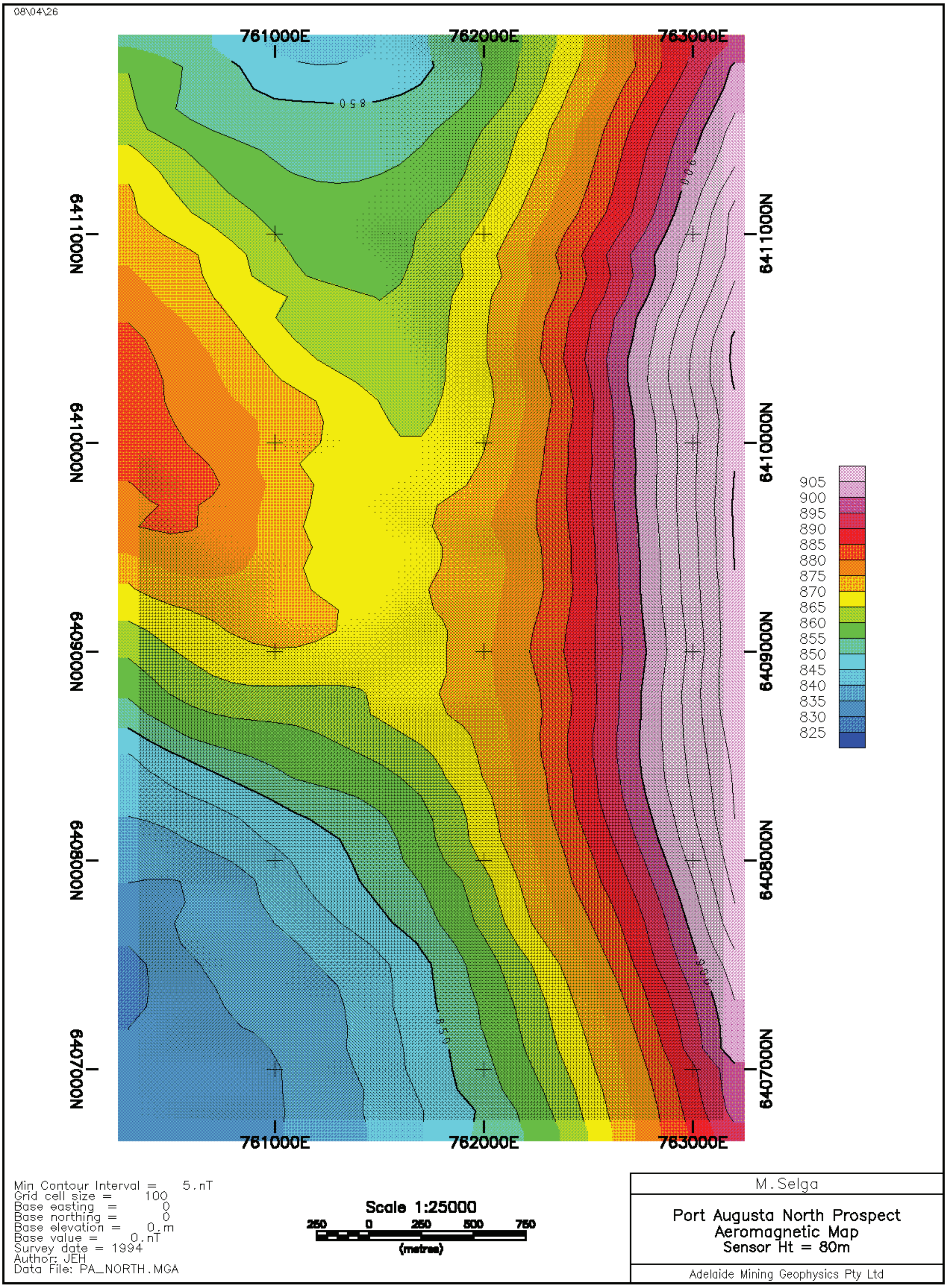
Grid cell size: 100
Datum: Isogal84
Base easting: 0.0
Base northing: 0.0
Base elevation: 0.000m
Base value: 0.000 m
Survey date: Feb08
Author: JEH
Data File: PA_NORTH.184
Scale 1:25000
250 0 250 500 750
(metres)
M. Selga
Port Ausgust North Prospect
Hanning Residual
Density = 1.84 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 3.2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6407000N
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895
890
885
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875
870
865
860
855
850
845
840
835
830
825
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Base northing = 0
Base elevation = 0.m
Base value = 0.nT
Survey date = 1994
Author: JEH
Data File: PA_NORTH.MGA
Scale 1:25000
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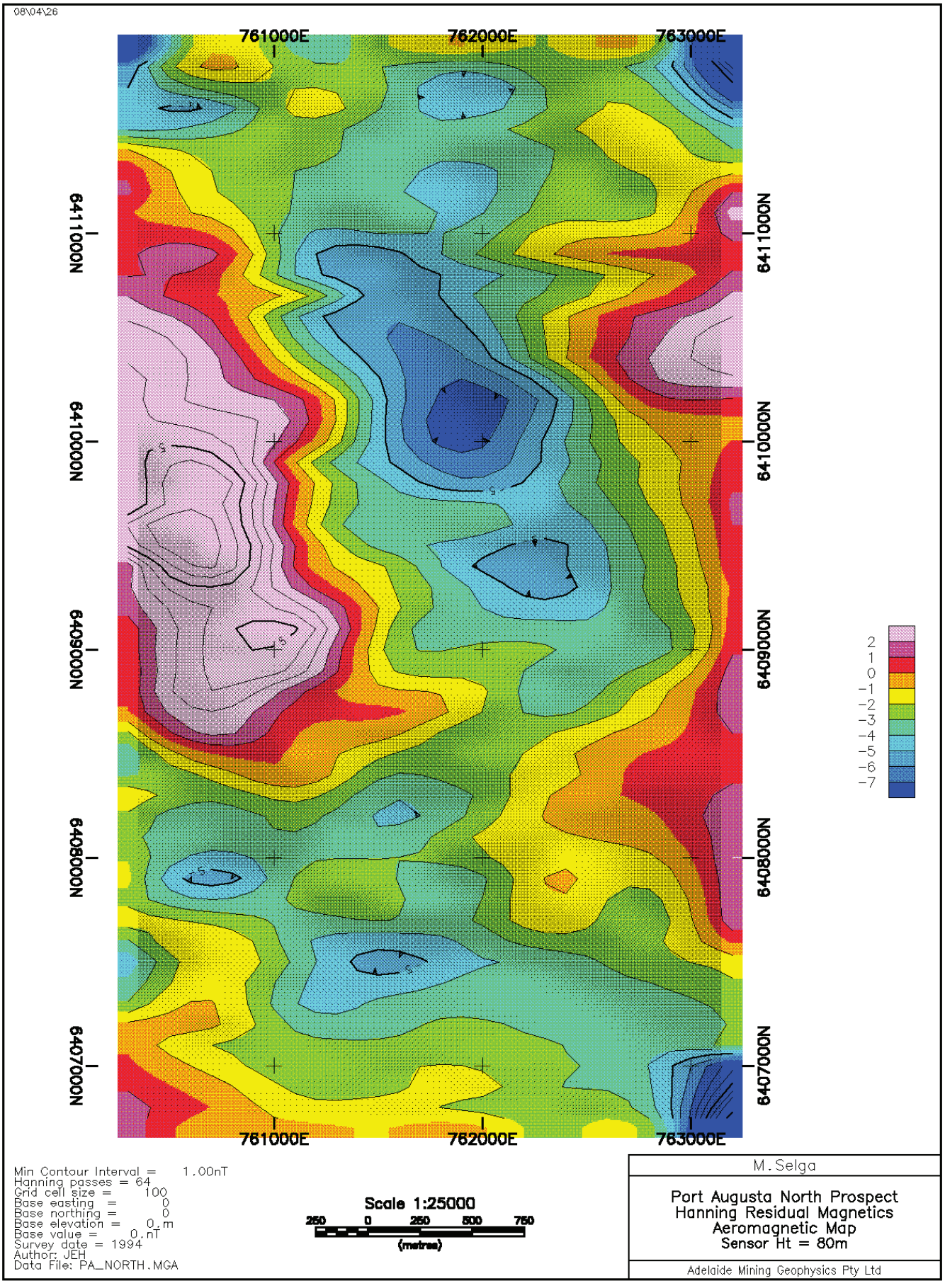
(metres)
M.Selga
Port Augusta North Prospect
Aeromagnetic Map
Sensor Ht = 80m
Adelaide Mining Geophysics Pty Ltd

Figure 4.1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762000E
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6410000N
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6408000N
6407000N
2
1
0
-1
-2
-3
-4
-5
-6
-7
Min Contour Interval = 1.00nT
Hanning passes = 64
Grid cell size = 100
Base easting = 0
Base northing = 0
Base elevation = 0.m
Base value = 0.nT
Survey date = 1994
Author: JEH
Data File: PA_NORTH.MGA
Scale 1:25000
250 0 250 500 750
(metres)
M.Selga
Port Augusta North Prospect
Hanning Residual Magnetics
Aeromagnetic Map
Sensor Ht = 80m
Adelaide Mining Geophysics Pty Ltd

Figure 4.2

APPENDIX 3

AMG Consultants Report – Density and Susceptibility Models

AMG James E. Hanneson, PhD Consulting Geophysicist
ADELAIDE MINING GEOPHYSICS Pty L 24 Justine Street, Flagstaff Hill, South Australia, Australia, 5159
ABN 77 085 429 698 tel: (08) 8370-7493 fax: (08) 8370-7364 email: jim.hanneson@bigpond.com

MEMORANDUM

To: Mr. Mark Selga **Affiliation:**

From: Jim Hanneson **Costing:**

Date: 30 June, 2008 **Reference:** AMG08/35

Subject: **A Density/Susceptibility Model for the Pt Augusta North Prospect, South Australia**

INTRODUCTION AND SUMMARY

Further to the assembly of gravity and magnetic data sets for the Pt Augusta North Prospect (Hanneson, 2008), I have created a density and magnetic susceptibility model for the area. Magnetic sources appear to be in the 900 to 1500 depth range, and apparent north-south undulations in the gravity can reasonably be interpreted to arise from variations in the thickness of unconsolidated cover or perhaps as paleochannels.

DATA

Gravity and aeromagnetic data are described in the earlier report and are presented here in Figures 1 and 2 for completeness. Part 2 of each figure is a residual image that enhances shorter wavelength anomalies that are more likely to be associated with features of economic interest.

MODEL

Density and magnetic susceptibility models were constructed using the methods of Talwani (1960, 1961). The calculated response of the density model is shown in Figure 3 which is a reasonable but imperfect simulation of the data in Figure 1.1. The calculated response of the magnetic model is shown in Figure 4 which compares favorably with the magnetic data in Figure 2.1. Inasmuch as the simulations are considered adequate, it may be said that the model is an interpretation that is *permitted* by the data, but because potential field data is ambiguous (that is, many models can have the same response), no model is ever *required* by the data. Further improvement in the simulation of both magnetic and gravity data requires only further effort but the conclusions are unlikely to change significantly.

Figures 3 and 4 also show the polygonal tops of the model bodies drawn in black, and, in Figure 5 they are shown in colour. The colours of the bodies relate to the background colour in the inset scatter diagram where dense non-magnetic bodies have a pinkish colour, and magnetic bodies range from shades of yellow-green to blue-green. For a further discussion of the combined phase and scatter diagram see Hanneson, 2003. Model body numbers plotted at the centre of each body permit reference to a list of bodies with additional details in Table 1 at the rear of this report. Some

of the larger and/or shallower bodies are drawn in outline only with the body number plotted at each polygon vertex.

Figure 5 shows east-west and north-south lines annotated P1 to P12 which give the locations of cross-sections through the model that are illustrated in Figures 6.1 to 6.12. Plotted with the cross-sections are profiles of the data and the calculated model response, for both magnetics and gravity.

If a given rock sample has elevated density and magnetic susceptibility values compared to some reference sample (say, a non-magnetic barren felsic rock) the combined phase/scatter diagram methodology (Hanneson, 2003) allows estimates to be made of how much dense magnetic material like magnetite, and how much dense non-magnetic material like hematite+sulphide the sample must contain to give the sample its elevated physical property values. The scatter diagram (density *vs*. susceptibility) in Figure 7 shows where each model body plots according to its physical properties, and the contours of percent magnetite and percent hematite+sulphide allow estimation of the hematite+sulphide and magnetite concentrations in the rock that each body represents (assuming a felsic lithology). Quantitative estimates of apparent concentrations are listed in Table 1 for each body that plots within the range of the density and susceptibility axes.

4. DISCUSSION

As stated, potential field data is ambiguous. Among other things this means that a steeply dipping dike whose thickness is less than the depth to top could have twice the density contrast and be half as thick and still yield the same response at the surface. Similarly a thin flat-lying body could be twice as dense and half as thick and for practical purposes have the same response. This requires noting that when the model response fails to simulate the data exactly, the model is necessarily wrong, and when the simulation of the data is accurate, perfect even, the model is *not* necessarily correct.

The magnetics for the Pt Augusta North area are bland and the local anomaly near 6410000N on the western margin of the area is simulated largely by Body 6 at 1440m depth; it represents rocks that are estimated to comprise less than one percent magnetite. See Table 1. The stronger magnetic high along the eastern margin of the study area is simulated by Bodies 5 and 8, both at 900m depth, and having the magnetic susceptibility estimated for ¼ and ½ percent magnetite respectively. Neither of these magnetic highs is well defined by the data.

The generally lower gravity values to the north (some 3 or 4 mgals) can be simulated in several ways: by cover that thickens to the north, by deep low density lithological units in that area, or by a combination of the two. I have chosen to use a low density (-0.8gm/cc contrast) wedge of cover (Body 7, stippled pink) whose thickness increases gradually to a maximum of 60 metres in the far north and which pinches out to zero along its southern outline (annotated with a "7" in Figure 5. Whether this model is closer to the truth than one which uses large deep bodies cannot be determined from the existing geophysical data alone.

The north-south trending gravity features (highs and lows) in Figure 1.2 area enigmatic. The model shows that they can be simulated by long, thin, flat-lying features close to the surface, perhaps in the nature of undulations or channels in the paleosurface. In reducing the gravity data (Hanneson, 2008), a covariance-minimising reduction density of 1.84 gm/cc suggested a density value for the material comprising the surface topography (sand? See Telford, 1980). For a bedrock of density 2.65 gm/cc this suggests a density contrast of about 0.8 gm/cc for the unconsolidated cover (relative to bedrock).

The residual gravity low near the western margin of Figure 1.2 might therefore be interpreted as arising from a 15m deep paleotopographic low since the thin flat-lying Body 23 (drawn in light stippled pink outline in Figure 5 with density contrast -0.8gm/cc) generates a reasonable simulation of the relative gravity low seen in Figure 1.1. Likewise Body 26 simulates another northerly trending residual gravity low.

By similar reasoning, the central residual gravity high can be simulated by the thin, flat-lying Bodies 20 and 32 having a positive density contrast (+0.8 gm/cc) and might therefore be caused by a northerly trending ridge in the paleosurface.

In summary, there are no compelling iron-oxide copper-gold (IOCG) targets evident in the data, but if the apparent gravity undulations are indeed caused by paleochannels, the area may be worth further consideration for roll-front uranium mineralization.

REFERENCES

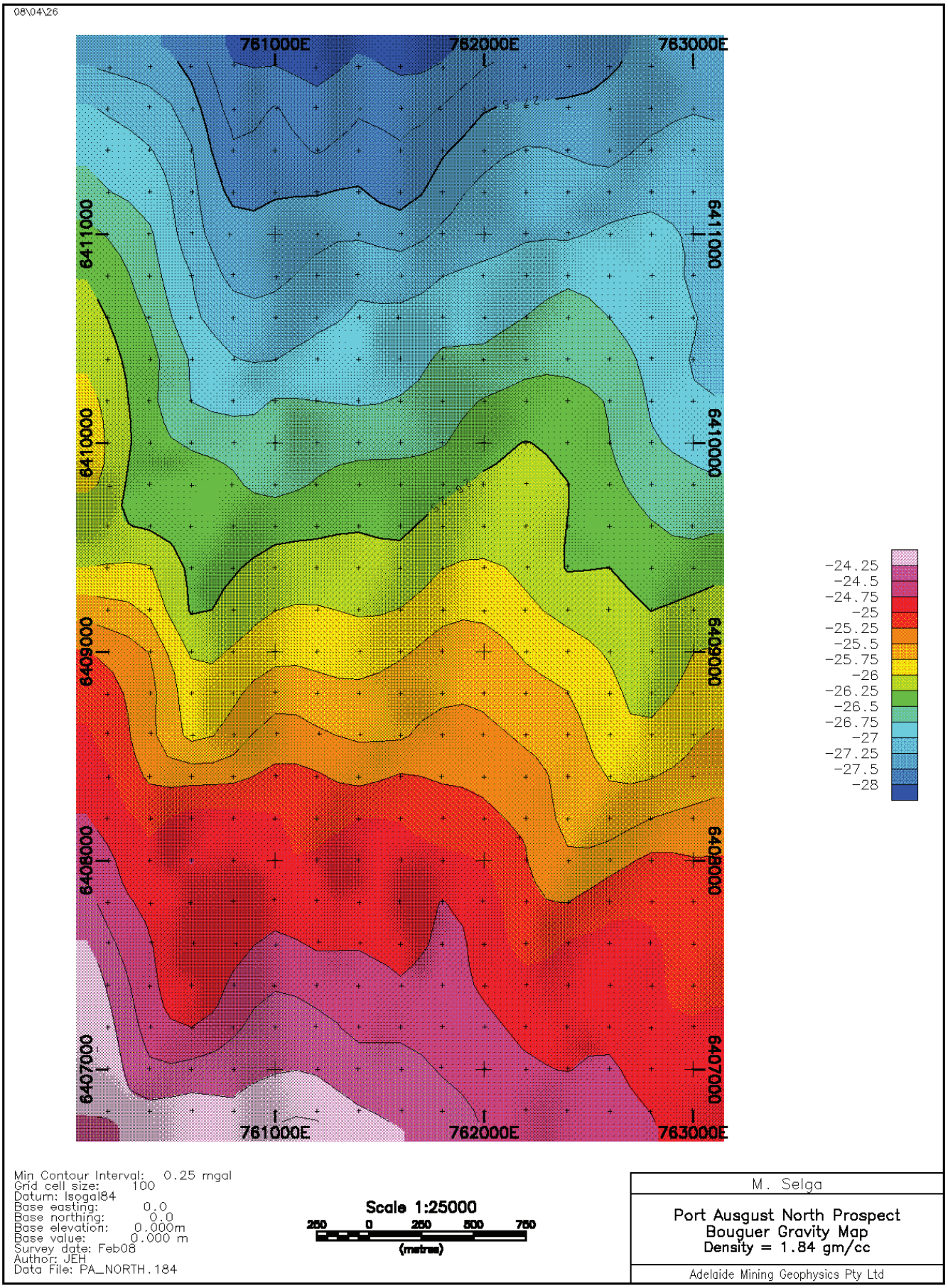
Hanneson, J.E., 2008; Gravity and Magnetic Images for the Pt Augusta North Prospect, South Australia; Memorandum AMG08/27 *to* M. Selga, 27 April.

Hanneson, J.E., 2003; On the use of magnetics and gravity to discriminate between gabbro and iron-rich ore-forming systems, Exploration Geophysics, V34, No 1&2, pp110-113.

Talwani, M., 1960, Rapid computation of gravitational attraction of three-dimensional bodies of arbitrary shape, Geophysics, V25, p203.

Talwani, M., 1961, Computation with the help of a digital computer of the magnetic anomalies caused by bodies of arbitrary shape, Geophysics, V26, p203.

Telford, W.M., Geldar, L.P., Sheriff, R.E., and Keys, D.A., 1980, Applied Geophysics, Cambridge UP, 860p.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6408000
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-27
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Base value: 0.000 m
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Author: JEH
Data File: PA_NORTH.184
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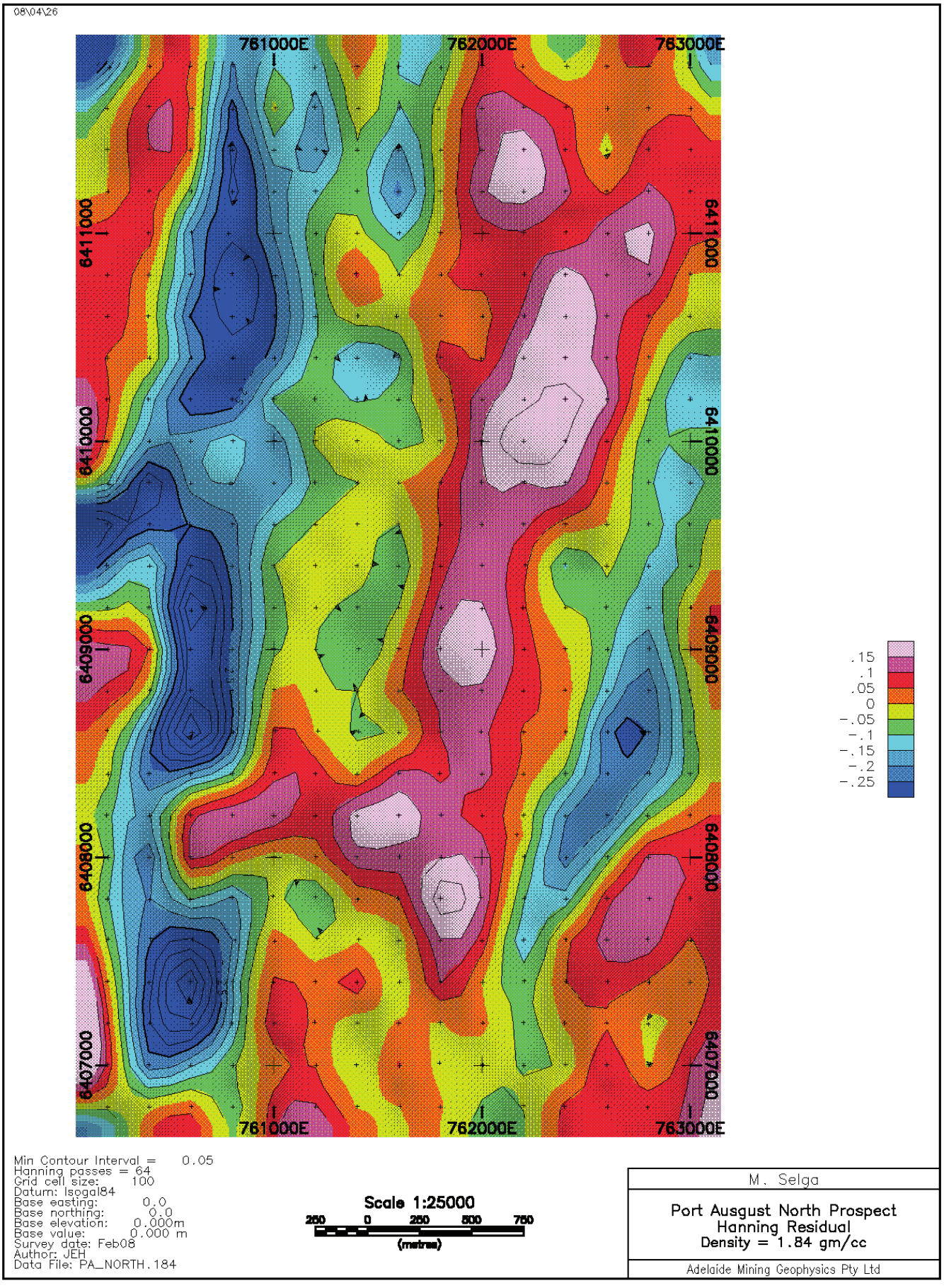
(metres)
M. Selga
Port Ausgust North Prospect
Bouguer Gravity Map
Density = 1.84 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 1.1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Base northing: 0.0
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Base value: 0.000 m
Survey date: Feb08
Author: JEH
Data File: PA_NORTH.184
Scale 1:25000
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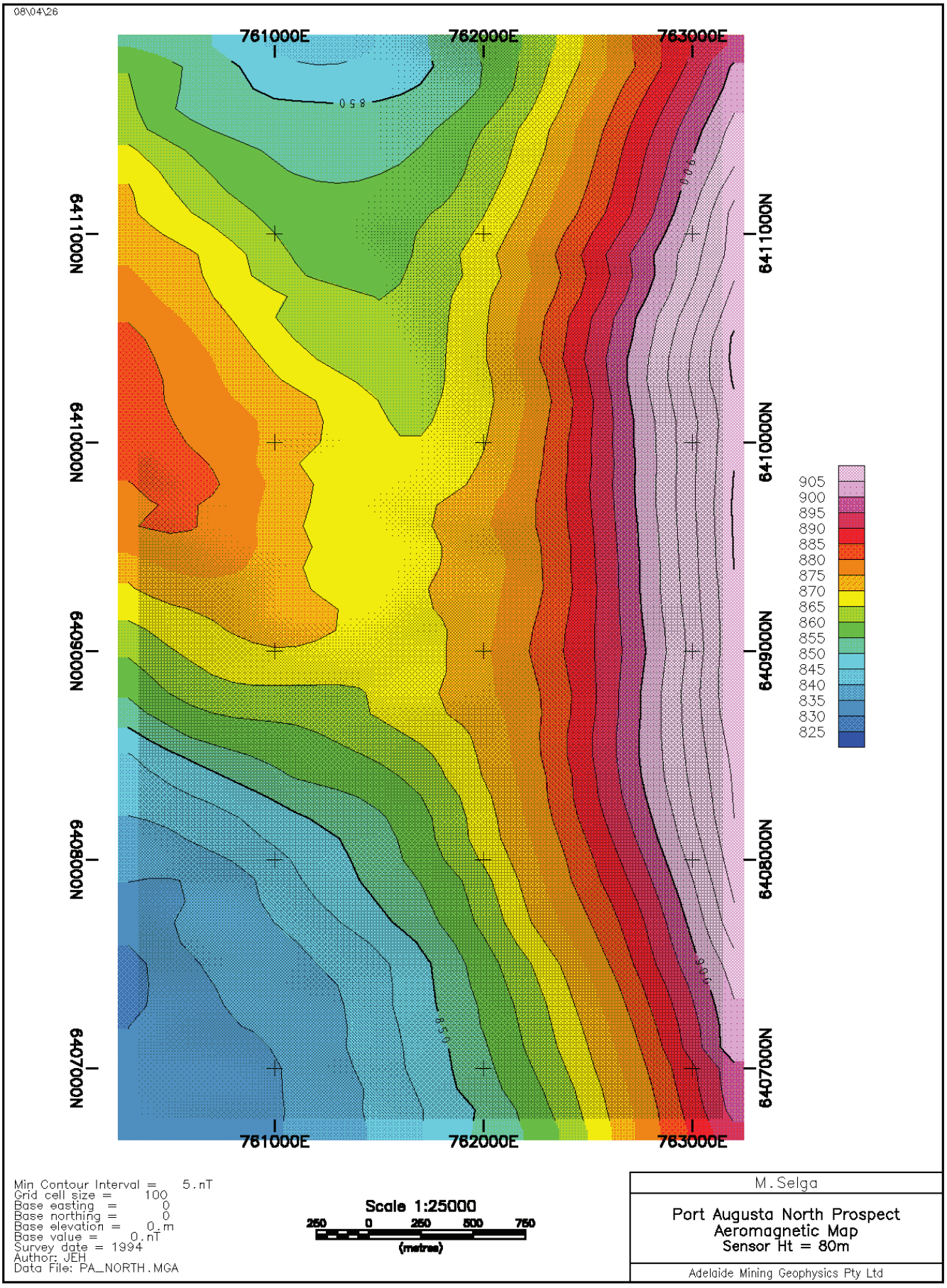
(metres)
M. Selga
Port Ausgust North Prospect
Hanning Residual
Density = 1.84 gm/cc
Adelaide Mining Geophysics Pty Ltd

Figure 1.2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860
855
850
845
840
835
830
825
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Grid cell size = 100
Base easting = 0
Base northing = 0
Base elevation = 0.m
Base value = 0.nT
Survey date = 1994
Author: JEH
Data File: PA_NORTH.MGA
Scale 1:25000
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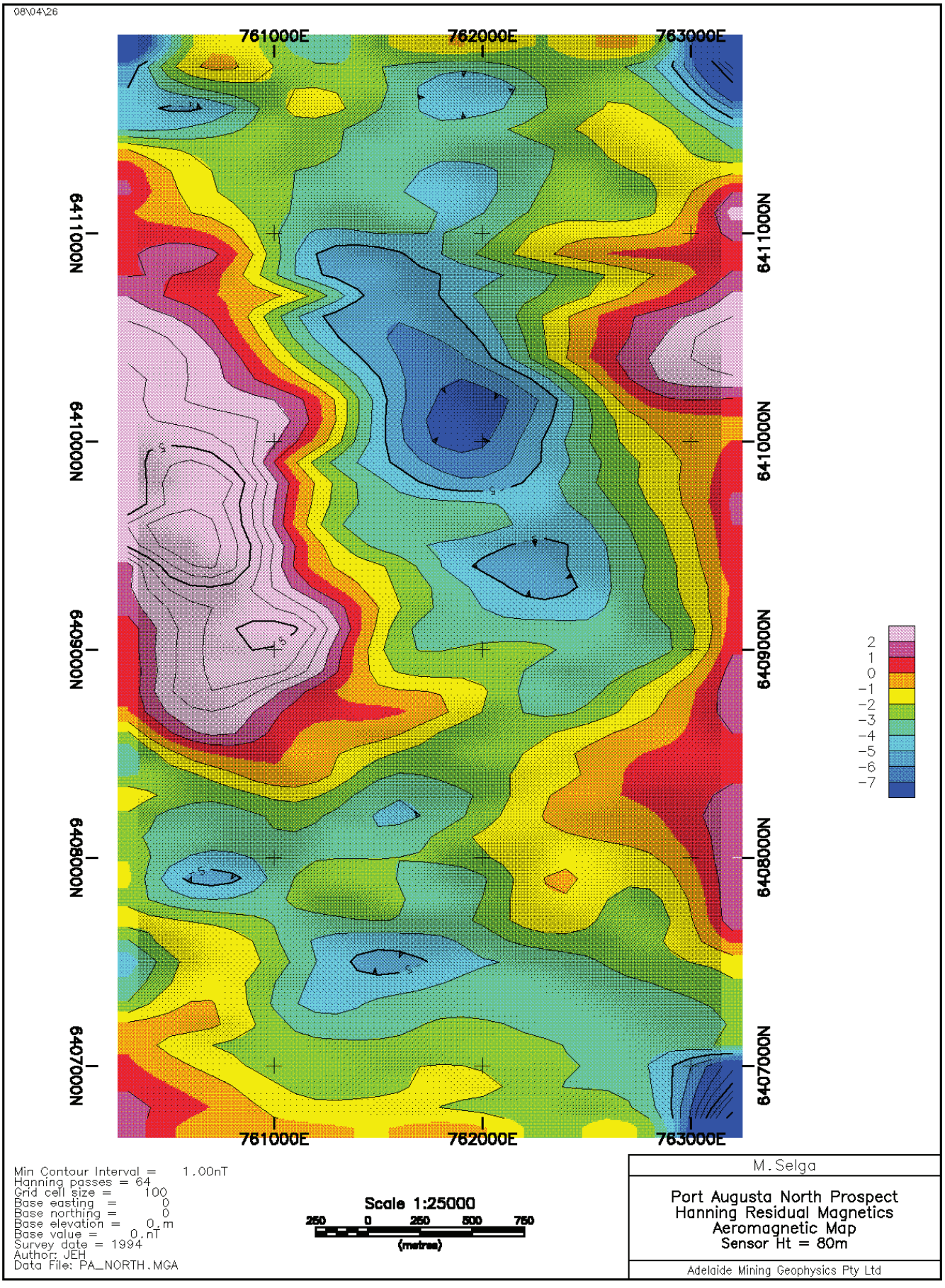
(metres)
M.Selga
Port Augusta North Prospect
Aeromagnetic Map
Sensor Ht = 80m
Adelaide Mining Geophysics Pty Ltd

Figure 2.1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-2
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Grid cell size = 100
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Author: JEH
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Scale 1:25000
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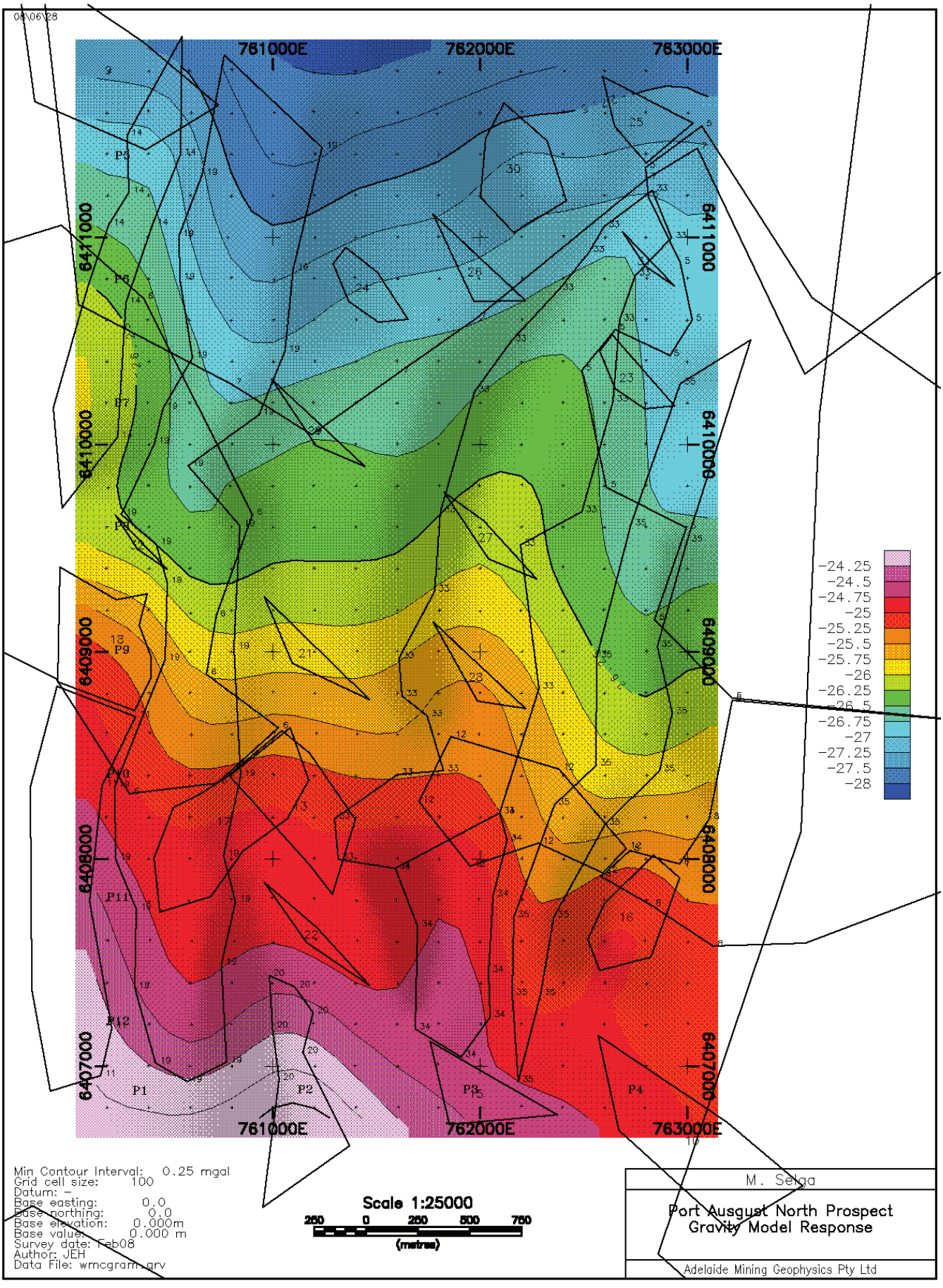
(metres)
M.Selga
Port Augusta North Prospect
Hanning Residual Magnetics
Aeromagnetic Map
Sensor Ht = 80m
Adelaide Mining Geophysics Pty Ltd

Figure 2.2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P5
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P8
P9
P10
P11
P12
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-24.5
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Base value: 0.000 m
Survey date: Feb08
Author: JEH
Data File: wmcgram.grv
Scale 1:25000
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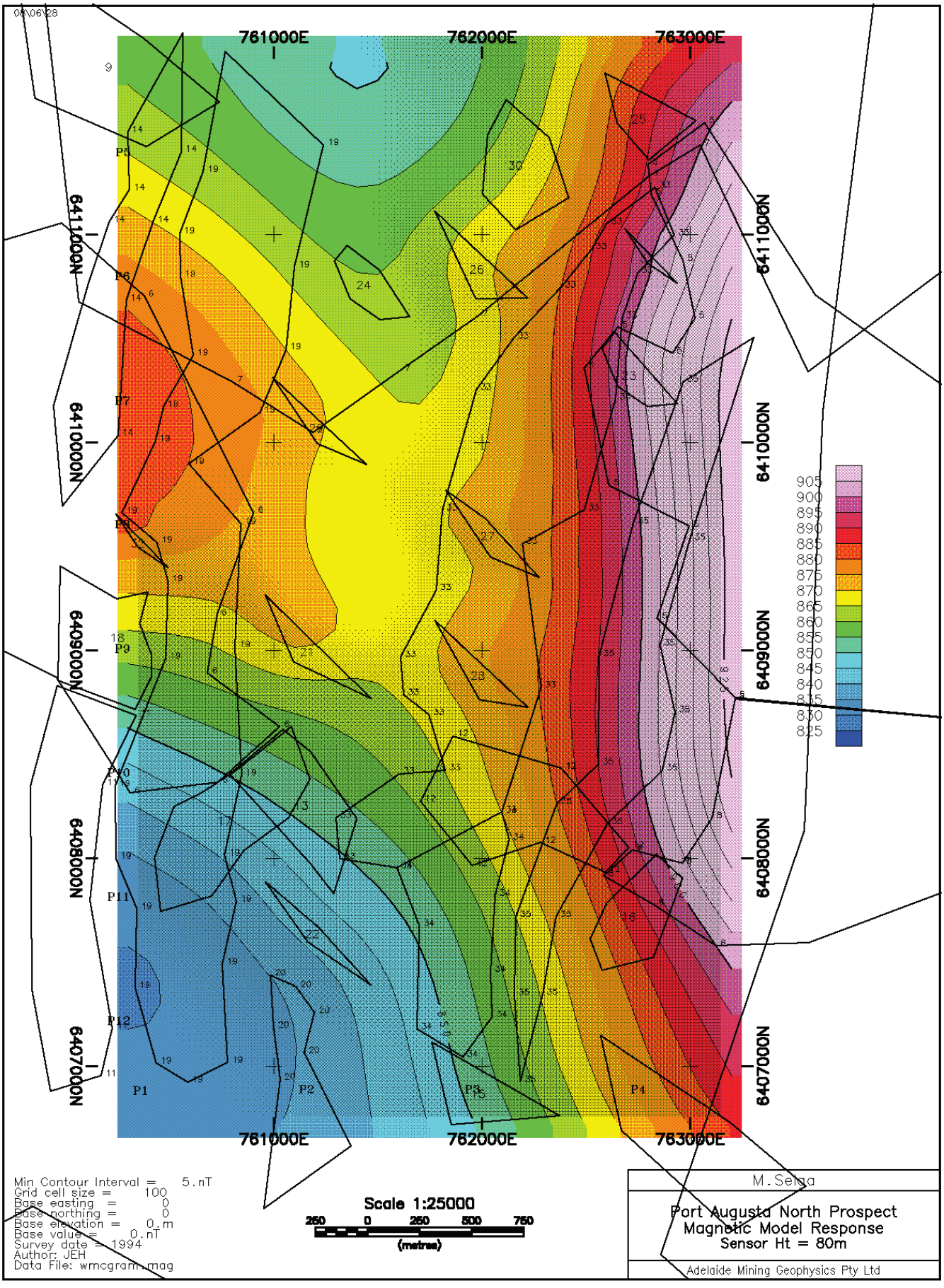
(metres)
M. Selga
Port Ausgust North Prospect
Gravity Model Response
Adelaide Mining Geophysics Pty Ltd

Figure 3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830
825
P1
P2
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P7
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P9
P10
P11
P12
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Base value = 0.nT
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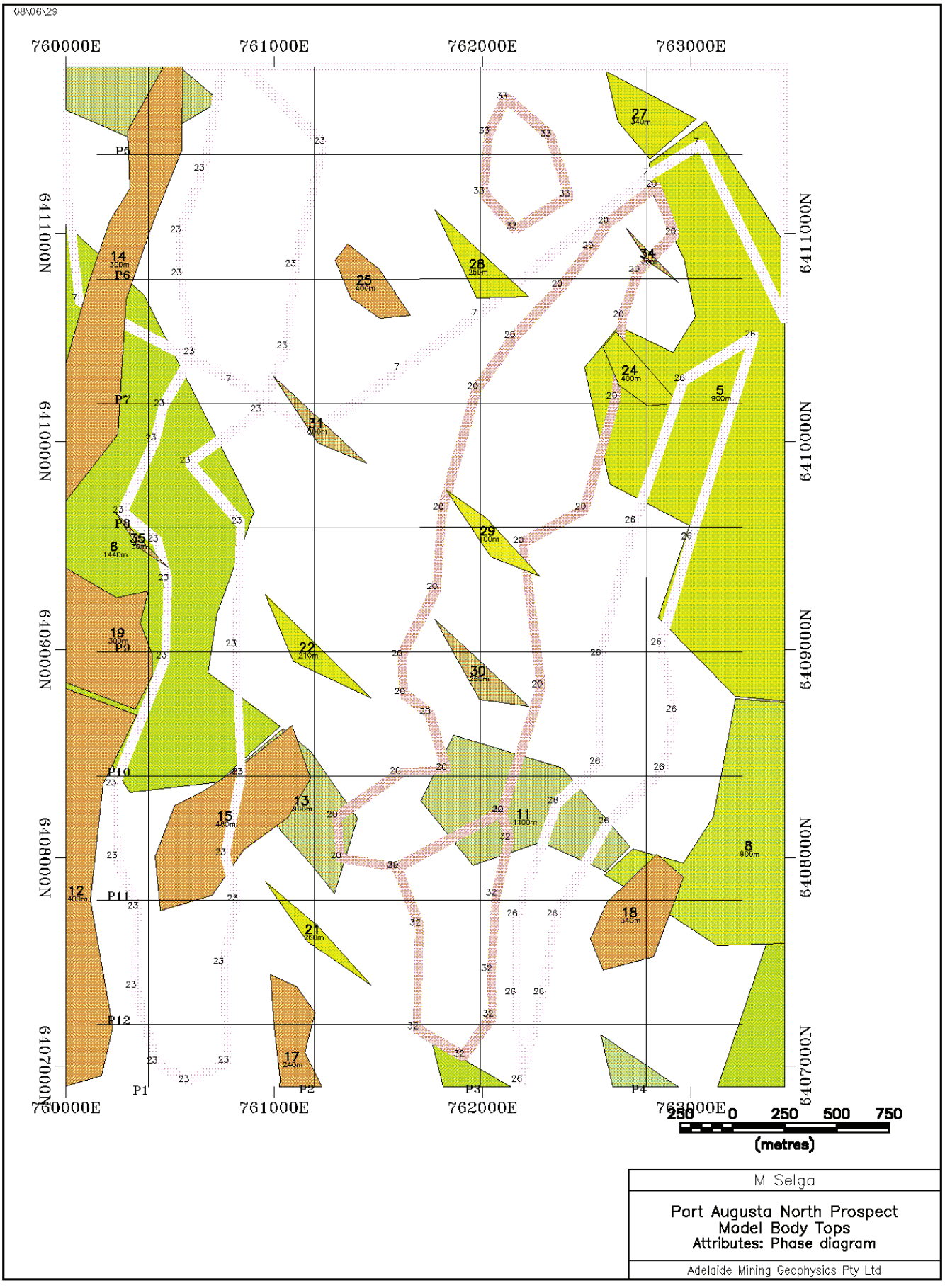
(metres)
M.Selga
Port Augusta North Prospect
Magnetic Model Response
Sensor Ht = 80m
Adelaide Mining Geophysics Pty Ltd

Figure 4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P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
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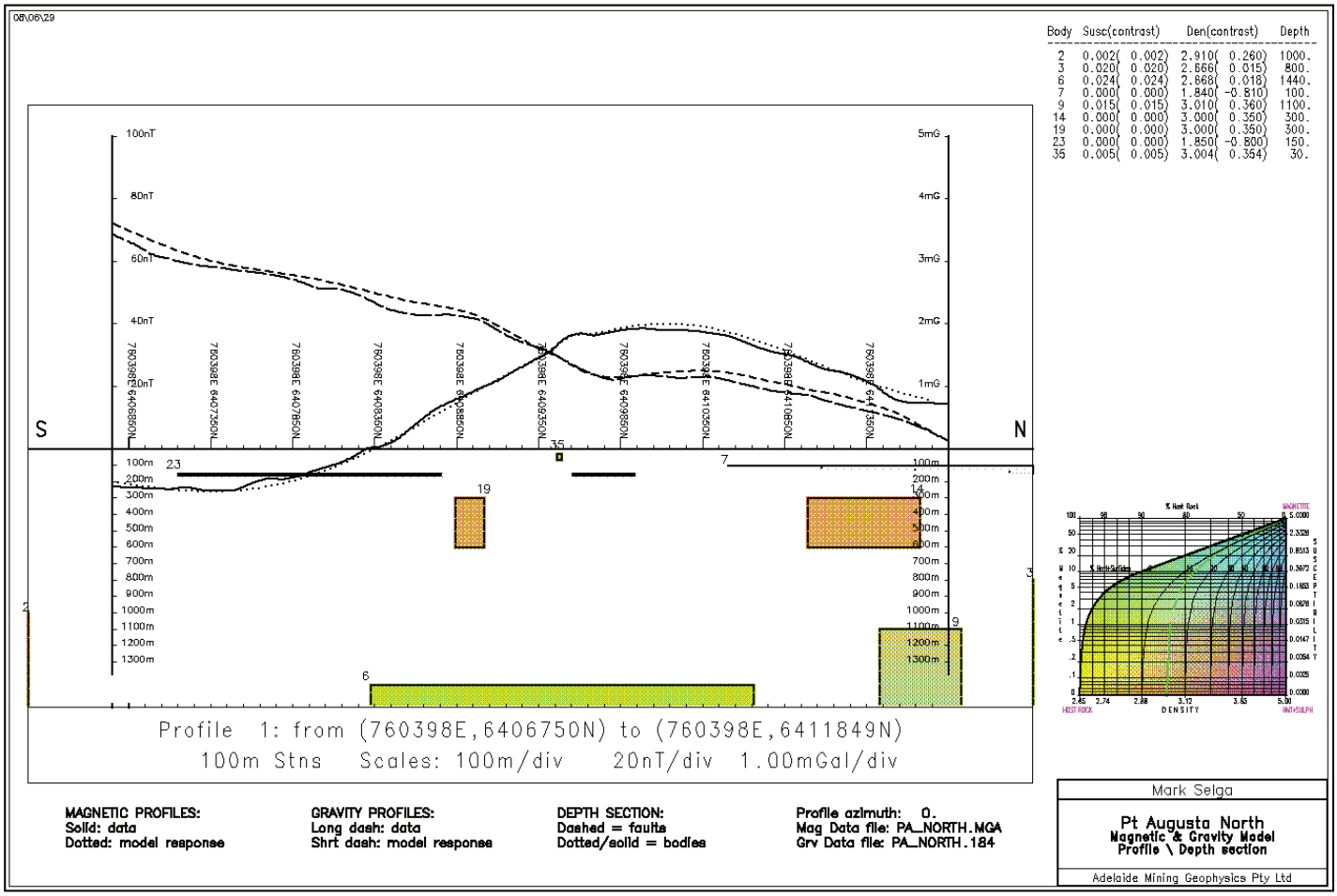
(metres)
M Selga
Port Augusta North Prospect
Model Body Tops
Attributes: Phase diagram
Adelaide Mining Geophysics Pty Ltd

Figure 5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7 0.000(0.000) 1.840(-0.810) 100.
9 0.015(0.015) 3.010(0.360) 1100.
14 0.000(0.000) 3.000(0.350) 300.
19 0.000(0.000) 3.000(0.350) 300.
23 0.000(0.000) 1.850(-0.800) 150.
35 0.005(0.005) 3.004(0.354) 30.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
S
N
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100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
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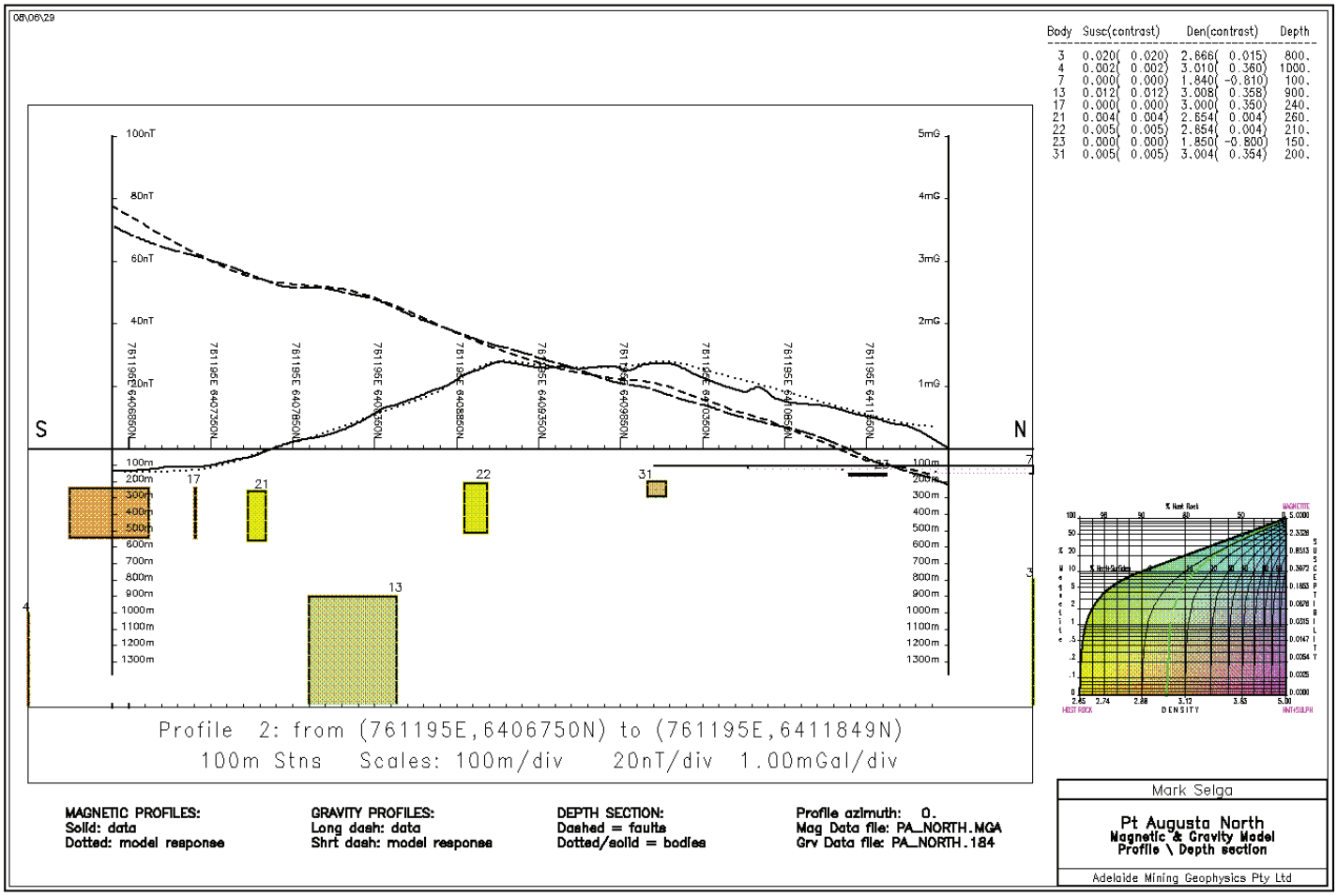
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 0.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.1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13 0.012(0.012) 3.008(0.358) 900.
17 0.000(0.000) 3.000(0.350) 240.
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22 0.005(0.005) 2.654(0.004) 210.
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31 0.005(0.005) 3.004(0.354) 200.
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20nT
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4mG
3mG
2mG
1mG
S
N
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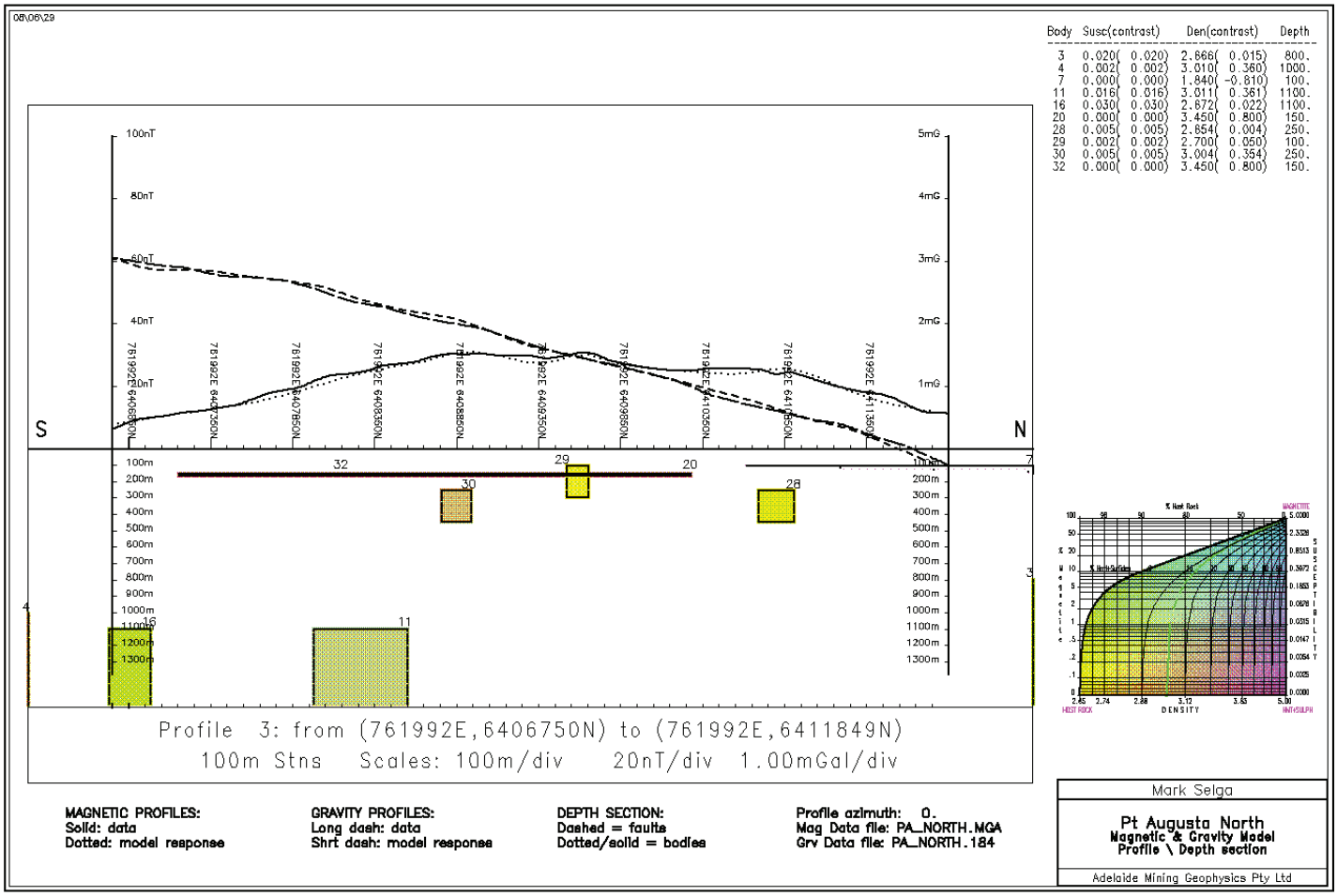
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 0.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.2


05\06\29
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16 0.030(0.030) 2.672(0.022) 1100.
20 0.000(0.000) 3.450(0.800) 150.
28 0.005(0.005) 2.854(0.004) 250.
29 0.002(0.002) 2.700(0.050) 100.
30 0.005(0.005) 3.004(0.354) 250.
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20nT
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3mG
2mG
1mG
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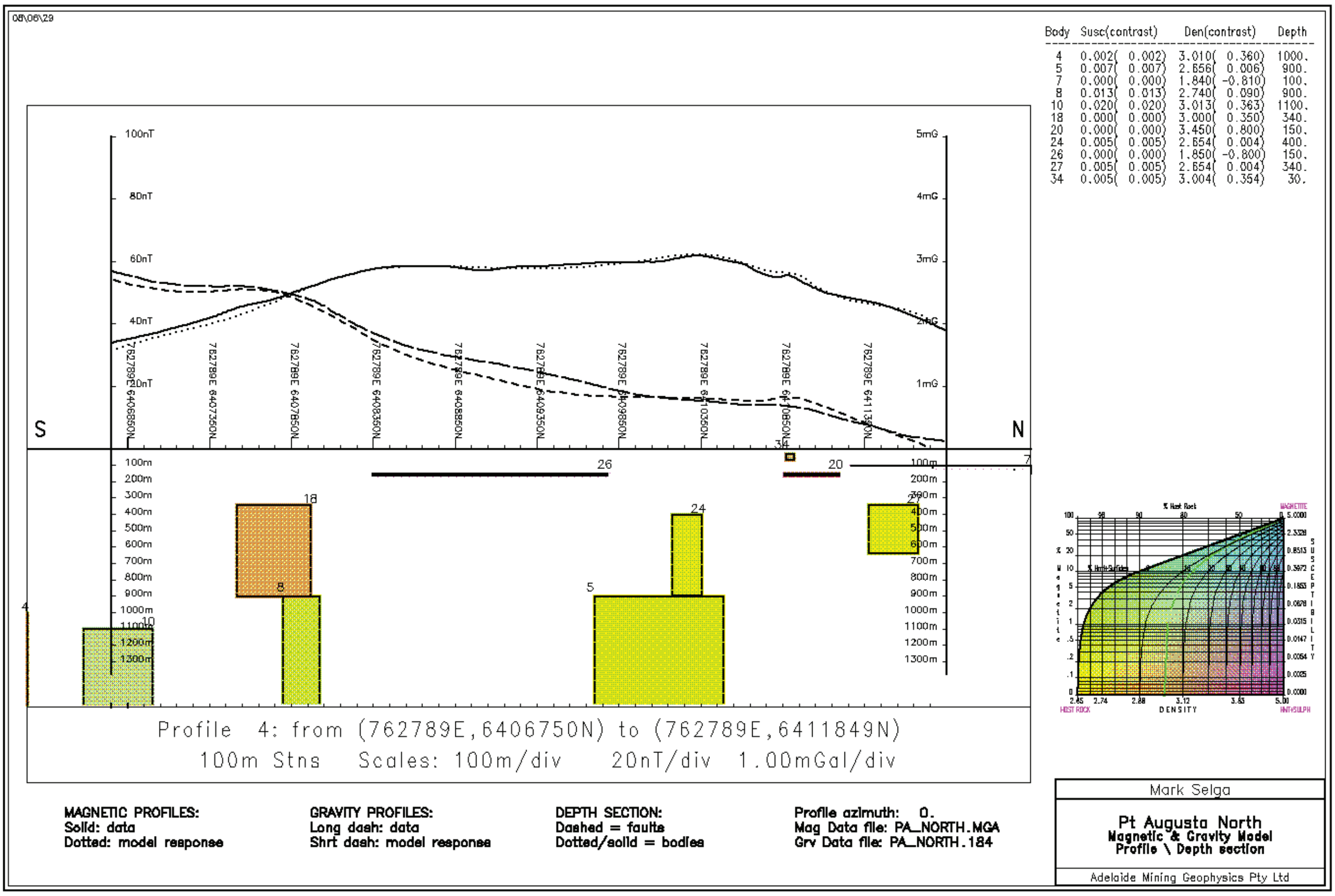
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
32
29
20
30
28
16
11
4
7
Profile 3: from (761992E,6406750N) to (761992E,6411849N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
% Host Rock
MAGNETITE
% Iron Sulphides
HOST ROCK
DENSITY
MINT-SULPH
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 0.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.3


08\06\29
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26 0.000(0.000) 1.850(-0.800) 150.
27 0.005(0.005) 2.654(0.004) 340.
34 0.005(0.005) 3.004(0.354) 30.
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60nT
40nT
20nT
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4mG
3mG
2mG
1mG
S
N
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100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
HOST ROCK
DENSITY
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100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
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Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 0.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.4

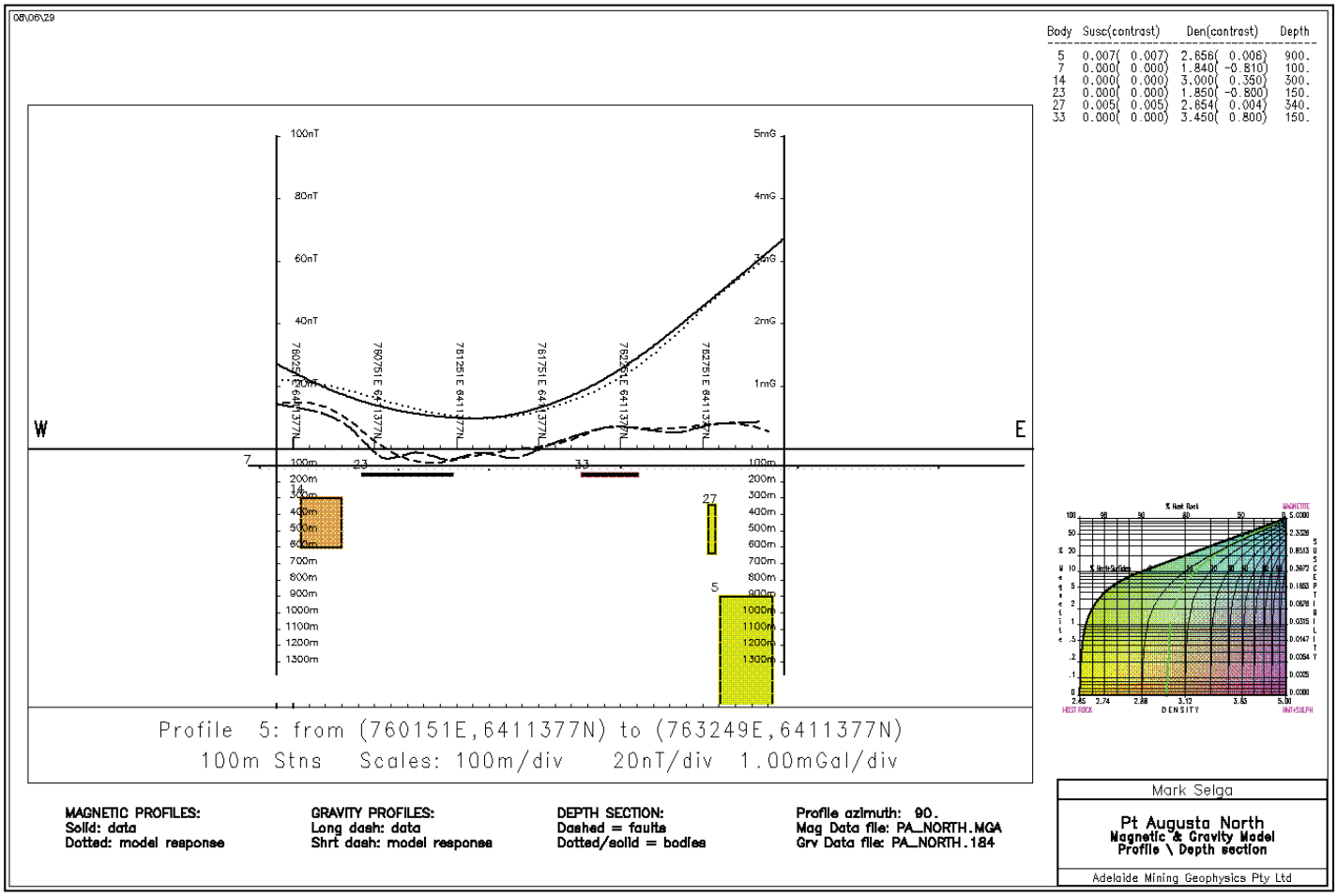
08\06\29
Body Susc(contrast) Den(contrast) Depth
5 0.007(0.007) 2.656(0.006) 900.
7 0.000(0.000) 1.840(-0.810) 100.
14 0.000(0.000) 3.000(0.350) 300.
23 0.000(0.000) 1.850(-0.800) 150.
27 0.005(0.005) 2.654(0.004) 340.
33 0.000(0.000) 3.450(0.800) 150.
100nT
80nT
60nT
40nT
5mG
4mG
3mG
2mG
1mG
W
E
7
14
23
33
27
5
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
Profile 5: from (760151E,6411377N) to (763249E,6411377N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
DENSITY
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.5

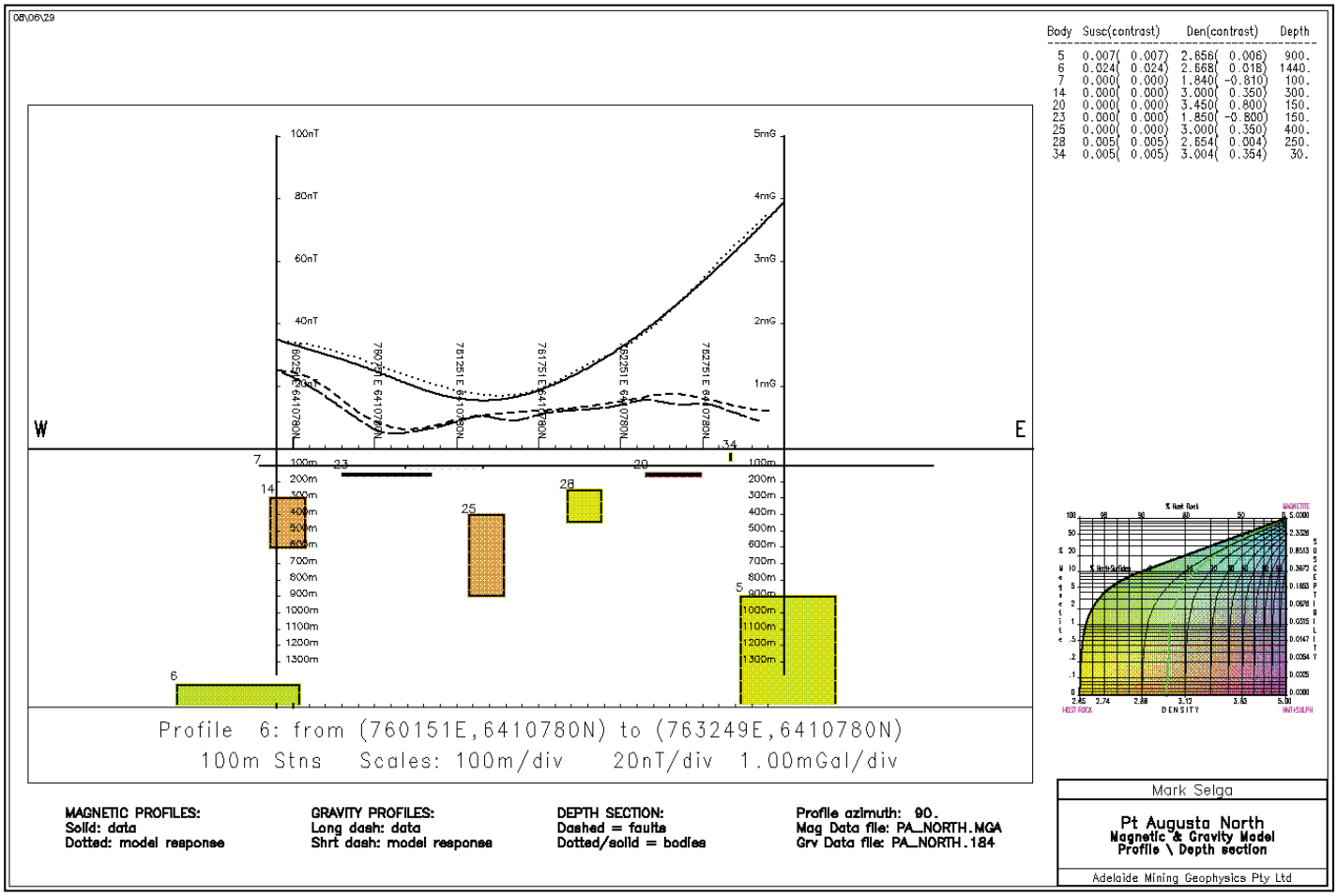
08\06\29
Body Susc(contrast) Den(contrast) Depth
5 0.007(0.007) 2.656(0.006) 900.
6 0.024(0.024) 2.668(0.018) 1440.
7 0.000(0.000) 1.840(-0.810) 100.
14 0.000(0.000) 3.000(0.350) 300.
20 0.000(0.000) 3.450(0.800) 150.
23 0.000(0.000) 1.850(-0.800) 150.
25 0.000(0.000) 3.000(0.350) 400.
28 0.005(0.005) 2.654(0.004) 250.
34 0.005(0.005) 3.004(0.354) 30.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
Profile 6: from (760151E,6410780N) to (763249E,6410780N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Short dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.6

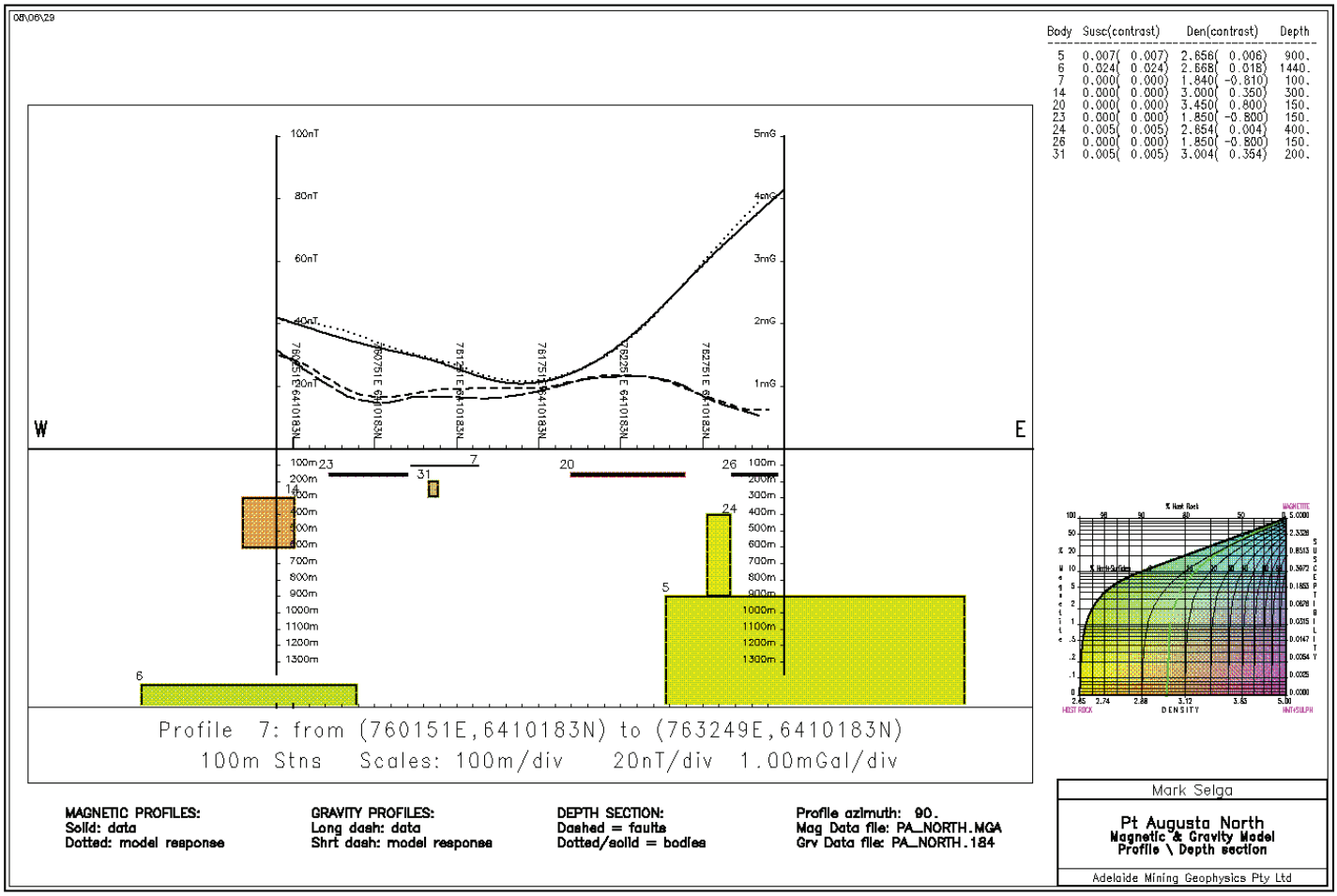
08\06\29
Body Susc(contrast) Den(contrast) Depth
5 0.007(0.007) 2.656(0.006) 900.
6 0.024(0.024) 2.668(0.018) 1440.
7 0.000(0.000) 1.840(-0.810) 100.
14 0.000(0.000) 3.000(0.350) 300.
20 0.000(0.000) 3.450(0.800) 150.
23 0.000(0.000) 1.850(-0.800) 150.
24 0.005(0.005) 2.854(0.004) 400.
26 0.000(0.000) 1.850(-0.800) 150.
31 0.005(0.005) 3.004(0.354) 200.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
760151E 6410183N
762751E 6410183N
765351E 6410183N
767951E 6410183N
770551E 6410183N
773151E 6410183N
775751E 6410183N
778351E 6410183N
780951E 6410183N
783549E 6410183N
786149E 6410183N
788749E 6410183N
791349E 6410183N
793949E 6410183N
796549E 6410183N
799149E 6410183N
801749E 6410183N
804349E 6410183N
806949E 6410183N
809549E 6410183N
812149E 6410183N
814749E 6410183N
817349E 6410183N
819949E 6410183N
822549E 6410183N
825149E 6410183N
827751E 6410183N
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
23
31
7
20
26
14
24
5
6
Profile 7: from (760151E,6410183N) to (763249E,6410183N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
% Host Rock
MAGNETITE
% Density Contrast
HOST ROCK
DENSITY
MINT-SULPH
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.7

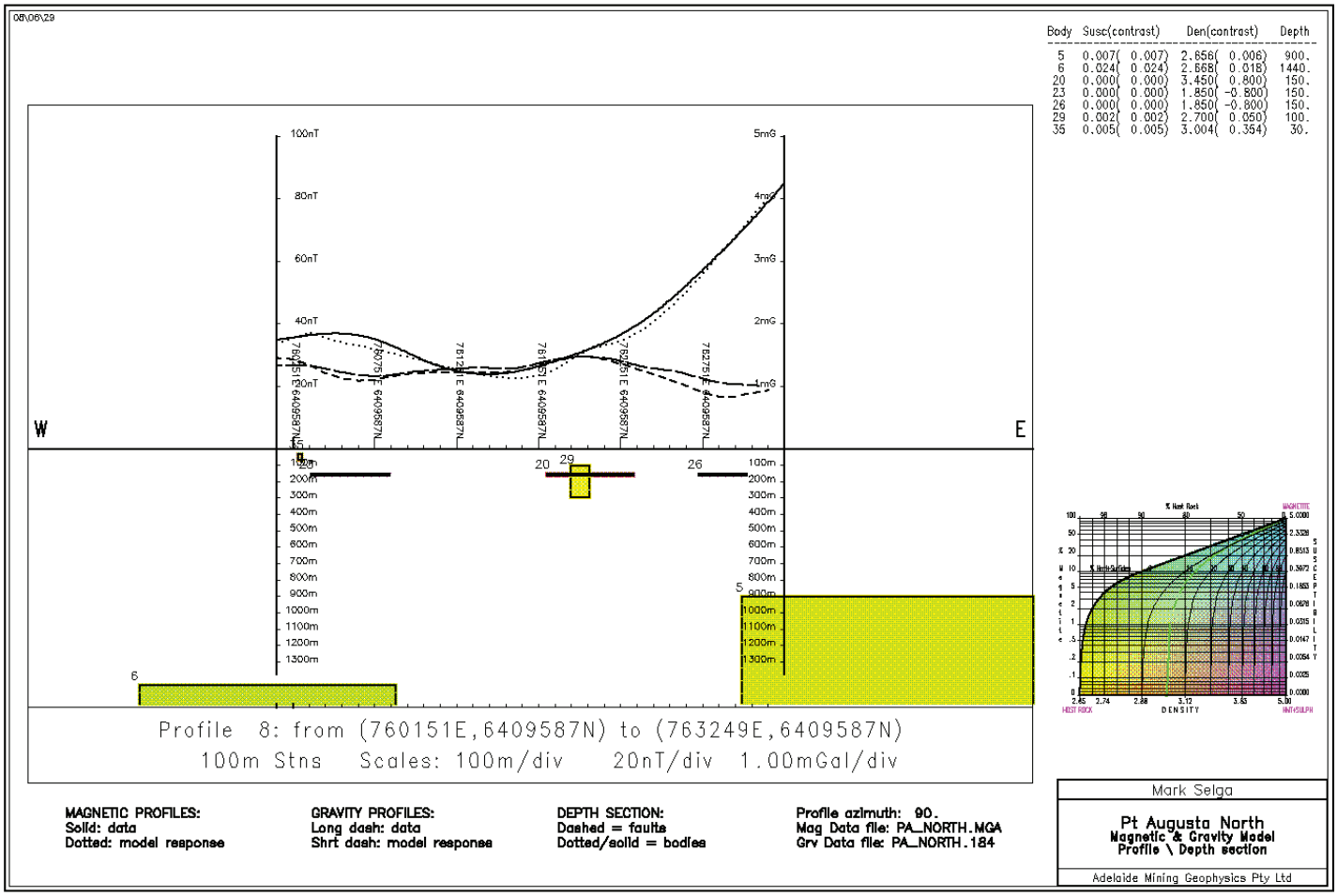
08\06\29
Body Susc(contrast) Den(contrast) Depth
5 0.007(0.007) 2.656(0.006) 900.
6 0.024(0.024) 2.668(0.018) 1440.
20 0.000(0.000) 3.450(0.800) 150.
23 0.000(0.000) 1.850(-0.800) 150.
26 0.000(0.000) 1.850(-0.800) 150.
29 0.002(0.002) 2.700(0.050) 100.
35 0.005(0.005) 3.004(0.354) 30.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
Profile 8: from (760151E,6409587N) to (763249E,6409587N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.8

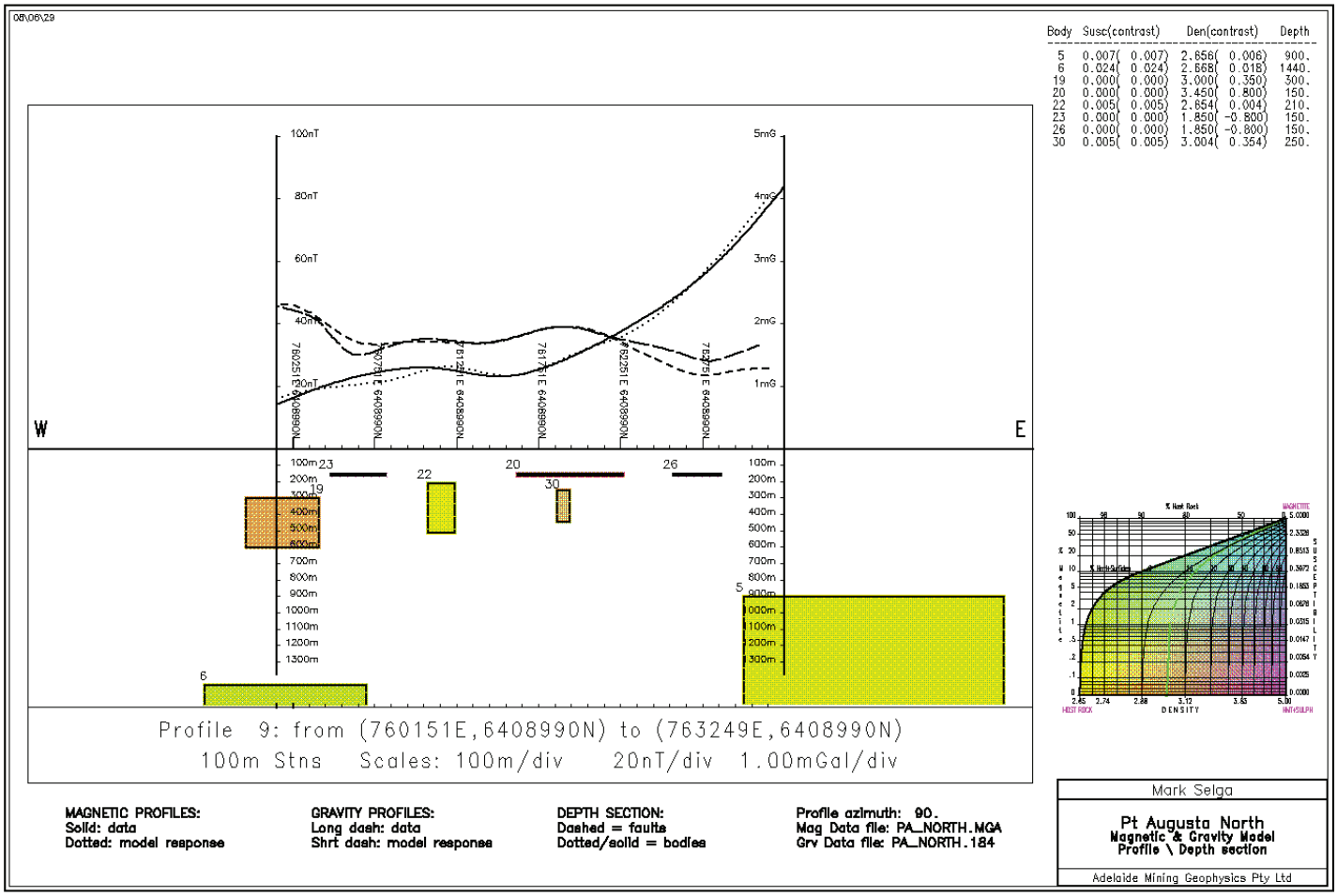
08\06\29
Body Susc(contrast) Den(contrast) Depth
5 0.007(0.007) 2.656(0.006) 900.
6 0.024(0.024) 2.668(0.018) 1440.
19 0.000(0.000) 3.000(0.350) 300.
20 0.000(0.000) 3.450(0.800) 150.
22 0.005(0.005) 2.654(0.004) 210.
23 0.000(0.000) 1.850(-0.800) 150.
26 0.000(0.000) 1.850(-0.800) 150.
30 0.005(0.005) 3.004(0.354) 250.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
760251E 6408990N
760751E 6408990N
761251E 6408990N
761751E 6408990N
762251E 6408990N
763251E 6408990N
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
23
19
22
20
30
26
6
5
Profile 9: from (760151E,6408990N) to (763249E,6408990N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
% Host Rock
MAGNETITE
% Iron Sulphides
HOST ROCK
DENSITY
MINT-SULPH
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.9

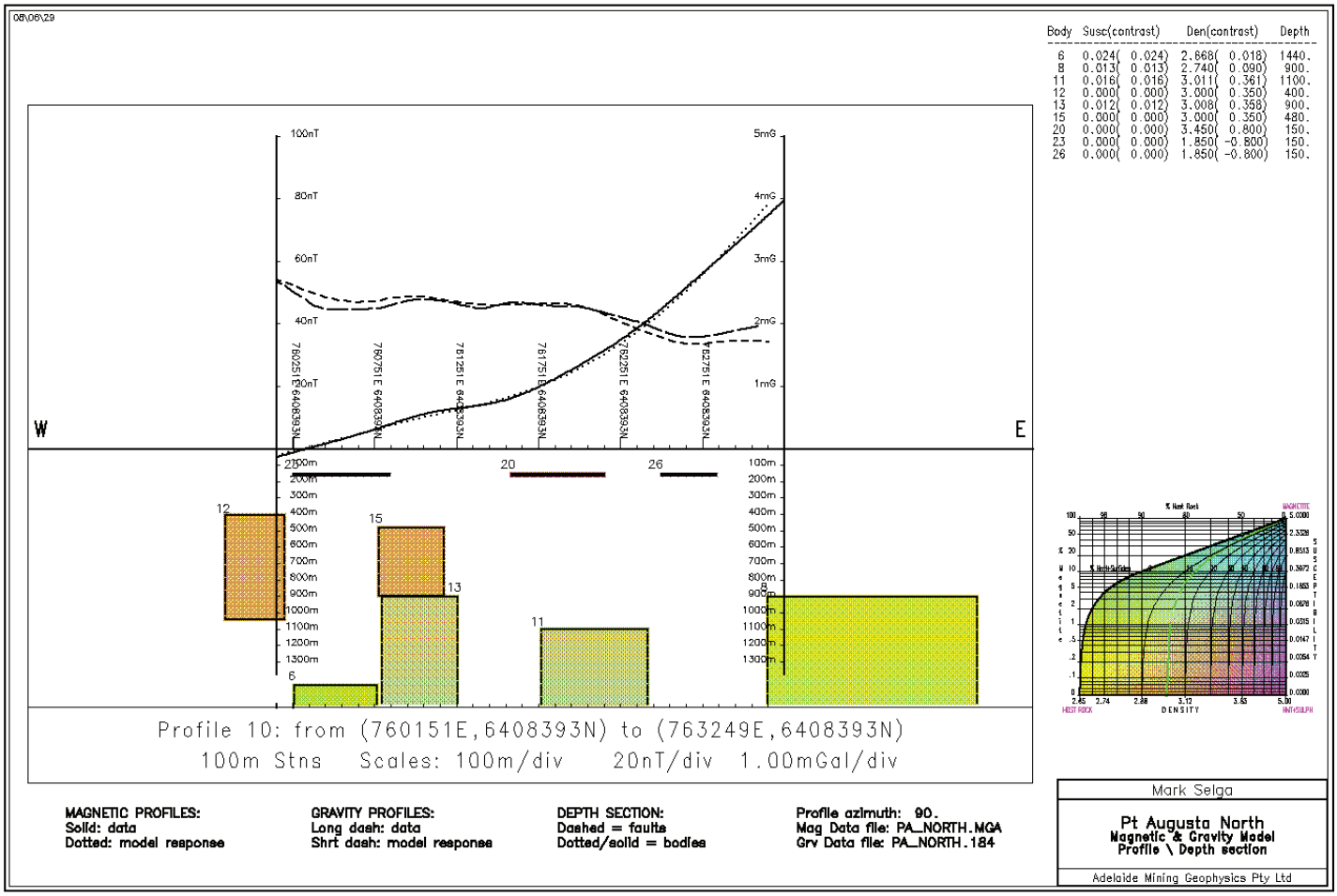
08\06\29
Body Susc(contrast) Den(contrast) Depth
6 0.024(0.024) 2.668(0.018) 1440.
8 0.013(0.013) 2.740(0.090) 900.
11 0.016(0.016) 3.011(0.361) 1100.
12 0.000(0.000) 3.000(0.350) 400.
13 0.012(0.012) 3.008(0.358) 900.
15 0.000(0.000) 3.000(0.350) 480.
20 0.000(0.000) 3.450(0.800) 150.
23 0.000(0.000) 1.850(-0.800) 150.
26 0.000(0.000) 1.850(-0.800) 150.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
Profile 10: from (760151E,6408393N) to (763249E,6408393N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.10

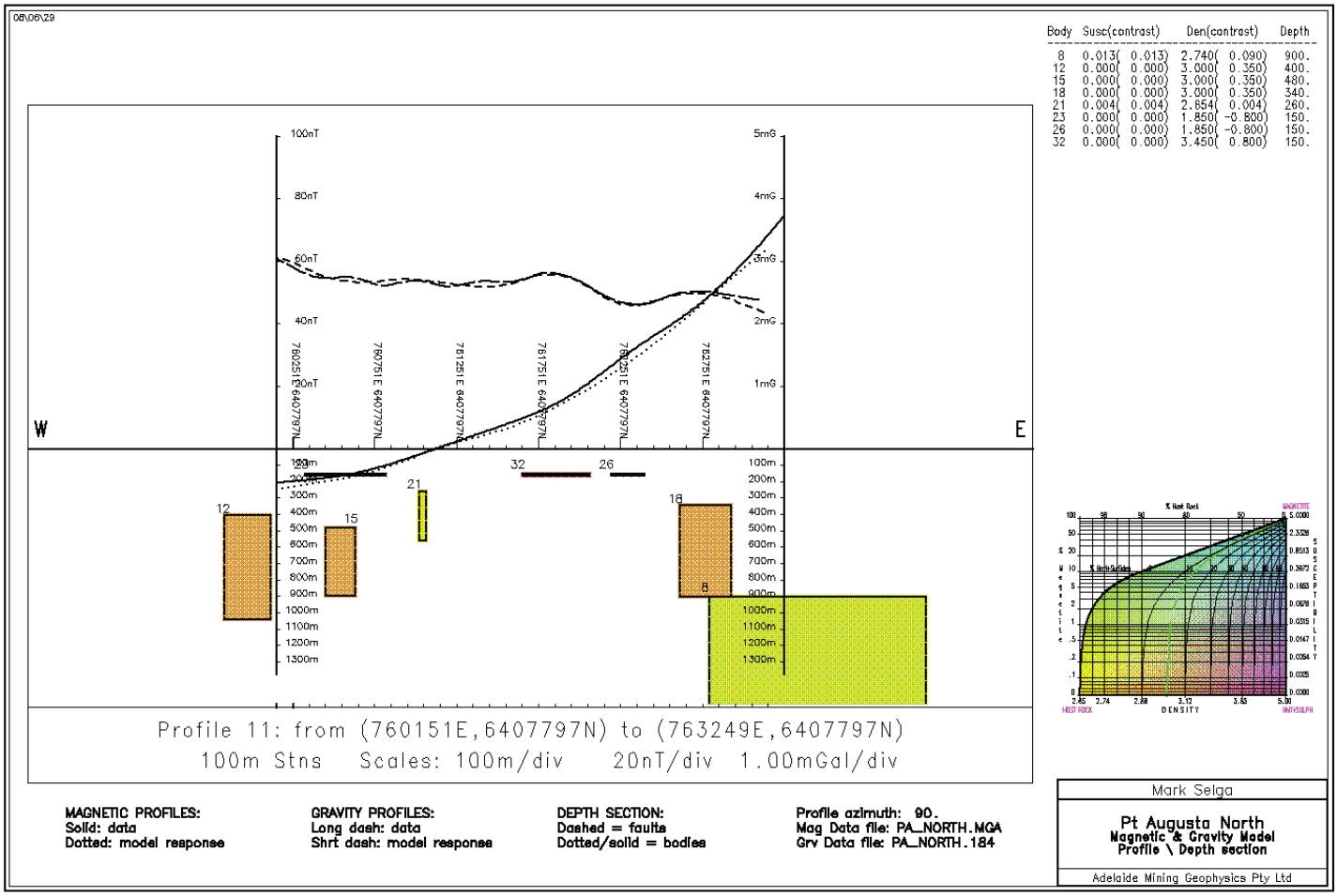
08\06\Z9
Body Susc(contrast) Den(contrast) Depth
8 0.013(0.013) 2.740(0.090) 900.
12 0.000(0.000) 3.000(0.350) 400.
15 0.000(0.000) 3.000(0.350) 480.
18 0.000(0.000) 3.000(0.350) 340.
21 0.004(0.004) 2.654(0.004) 260.
23 0.000(0.000) 1.850(-0.800) 150.
26 0.000(0.000) 1.850(-0.800) 150.
32 0.000(0.000) 3.450(0.800) 150.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
760251E 6407797N
760751E 6407797N
761251E 6407797N
761751E 6407797N
762251E 6407797N
762751E 6407797N
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
12
15
21
32
26
18
8
Profile 11: from (760151E,6407797N) to (763249E,6407797N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
% Host Rock
% Iron Oxides
MAGNETITE
HOST ROCK
DENSITY
MINT-SULPH
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.11

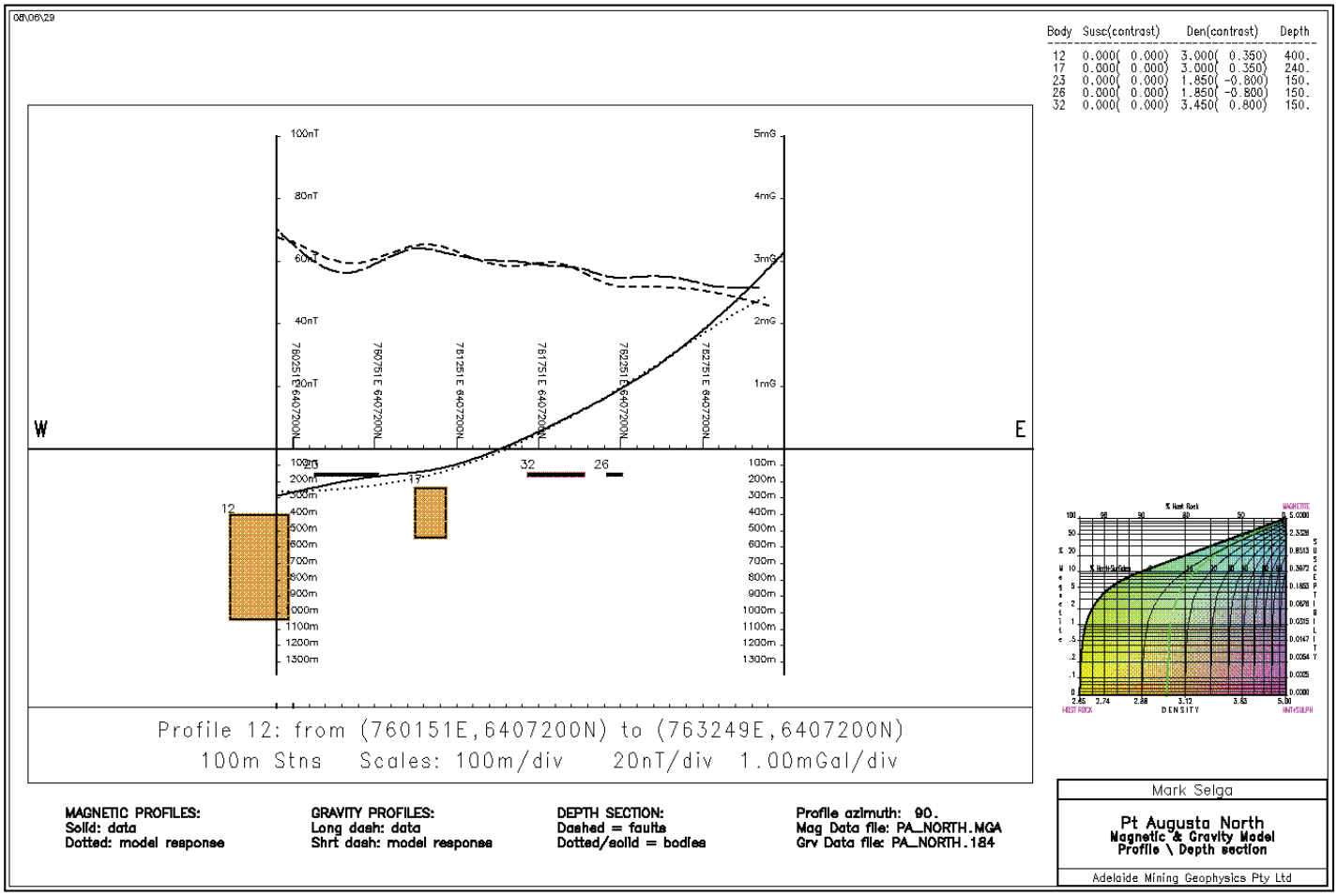
08\06\29
Body Susc(contrast) Den(contrast) Depth
12 0.000(0.000) 3.000(0.350) 400.
17 0.000(0.000) 3.000(0.350) 240.
23 0.000(0.000) 1.850(-0.800) 150.
26 0.000(0.000) 1.850(-0.800) 150.
32 0.000(0.000) 3.450(0.800) 150.
100nT
80nT
60nT
40nT
20nT
5mG
4mG
3mG
2mG
1mG
W
E
12
17
32
26
100m
200m
300m
400m
500m
600m
700m
800m
900m
1000m
1100m
1200m
1300m
Profile 12: from (760151E,6407200N) to (763249E,6407200N)
100m Stns Scales: 100m/div 20nT/div 1.00mGal/div
MAGNETIC PROFILES:
Solid: data
Dotted: model response
GRAVITY PROFILES:
Long dash: data
Shrt dash: model response
DEPTH SECTION:
Dashed = faults
Dotted/solid = bodies
Profile azimuth: 90.
Mag Data file: PA_NORTH.MGA
Grv Data file: PA_NORTH.184
DENSITY
Mark Selga
Pt Augusta North
Magnetic & Gravity Model
Profile \ Depth section
Adelaide Mining Geophysics Pty Ltd

Figure 6.12

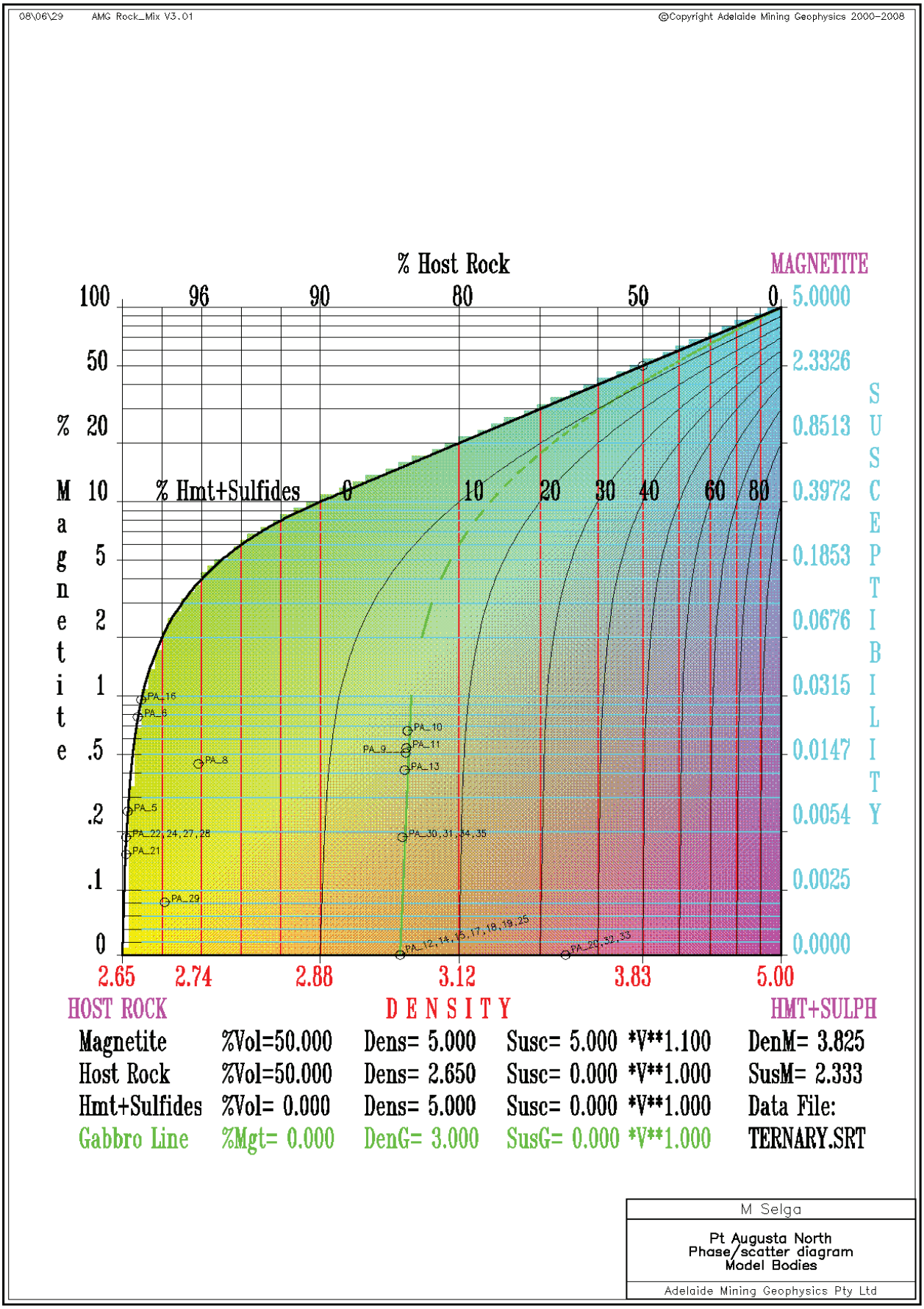
08\06\29 AMG Rock_Mix V3.01
©Copyright Adelaide Mining Geophysics 2000-2008
% Host Rock
MAGNETITE
100 96 90 80 50 0
5.0000
2.3326
0.8513
0.3972
0.1853
0.0676
0.0315
0.0147
0.0054
0.0025
0.0000
SUSCEPTIBILITY
% Magnetite
50 20 10 5 2 1 .5 .2 .1 0
% Hmt+Sulfides 0 10 20 30 40 60 80
PA_16
PA_6
PA_8
PA_10
PA_9
PA_11
PA_13
PA_5
PA_22,24,27,28
PA_21
PA_29
PA_30,31,34,35
PA_12,14,15,17,18,19,25
PA_20,32,33
2.65 2.74 2.88 3.12 3.83 5.00
HOST ROCK
DENSITY
HMT+SULPH
Magnetite %Vol=50.000 Dens= 5.000 Susc= 5.000 *V**1.100 DenM= 3.825
Host Rock %Vol=50.000 Dens= 2.650 Susc= 0.000 *V**1.000 SusM= 2.333
Hmt+Sulfides %Vol= 0.000 Dens= 5.000 Susc= 0.000 *V**1.000 Data File:
Gabbro Line %Mgt= 0.000 DenG= 3.000 SusG= 0.000 *V**1.000 TERNARY.SRT
M Selga
Pt Augusta North
Phase/scatter diagram
Model Bodies
Adelaide Mining Geophysics Pty Ltd

Figure 7

Table 1. Magnetic/Gravity Model specification report for use with Plan Map of Body Tops

Title: Pt Augusta North
Client: Mark Selga
User: Adelaide Mining Geophysics Pty Ltd

Magnetic data file name: PA_NORTH.MGA
Gravity data file name: PA_NORTH.184

Intensity = 59177. Declination = 8.
Inclination = -67. Magnetometer height: 80.0 m
Gravimeter height: 0.0 m

Hmt+sulf Density = 5.00 Magnetite Density = 5.00
Magnetite MagSus = 5.00 Power Law Exponent = 1.10
CountryRock Dens = 2.65 Mafic Rock Density = 3.00

Number of Bodies = 35 Number of Faults = 0
Number of Profiles = 12 Gauss quad order = 10
Station Interval =100 Scales = 20nT/div & 1.00mGal/div

Body	No of Verts	Depth Extnt	Dip	Plng Azmth	Plng	Susc (SI)	Rem Dec	Rem Inc	K-Ratio	Density (gm/cc)	App%Mgt	App%Hmt (Felsic)	Centroid E	Centroid N
1	7	2100.	2000.	0.	90.	0.0290	0.	90.	0.00	0.022	0.93	0.00	764160	6408435
2	5	1000.	2000.	0.	90.	0.0020	0.	90.	0.00	0.260	0.08	10.98	759698	6404762
3	8	800.	2700.	0.	90.	0.0200	0.	90.	0.00	0.015	0.66	0.00	761089	6413824
4	4	1000.	1100.	0.	90.	0.0020	0.	90.	0.00	0.360	0.08	15.25	762578	6404325
5	15	900.	900.	0.	90.	0.0070	0.	90.	0.00	0.006	0.25	0.00	763156	6410225
6	12	1440.	1000.	0.	90.	0.0240	0.	90.	0.00	0.018	0.78	0.00	760246	6409474
7	13	100.	60.	0.	1.	0.0000	360.	90.	0.00	-0.810	-	-	761761	6411949
	(Except: Az= 0., Plg= 2. at 763048.8E, 6411429.0N)													
	(Except: Az= 0., Plg= 2. at 762806.2E, 6411283.0N)													
8	10	900.	800.	0.	90.	0.0130	0.	90.	0.00	0.090	0.45	3.38	763292	6408037
9	5	1100.	1000.	0.	90.	0.0150	0.	90.	0.00	0.360	0.51	14.82	760221	6411804
10	5	1100.	1000.	0.	90.	0.0200	0.	90.	0.00	0.363	0.66	14.79	763038	6406639
11	7	1100.	1000.	0.	90.	0.0160	0.	90.	0.00	0.361	0.54	14.81	762212	6408188
12	9	400.	640.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	760065	6407822
13	6	900.	1000.	0.	90.	0.0120	0.	90.	0.00	0.358	0.42	14.83	761145	6408253
14	11	300.	300.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	760267	6410868
15	10	480.	420.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	760777	6408179
16	3	1100.	1000.	0.	90.	0.0300	0.	90.	0.00	0.022	0.96	0.00	761995	6406866
17	8	240.	300.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	761099	6407024
18	6	340.	560.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	762720	6407716
19	8	300.	300.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	760262	6409060
20	24	150.	15.	0.	90.	0.0000	360.	90.	0.00	0.800	0.00	34.04	762113	6409580
21	4	260.	300.	0.	90.	0.0040	0.	90.	0.00	0.004	0.15	0.00	761200	6407634
22	3	210.	300.	0.	90.	0.0050	0.	90.	0.00	0.004	0.19	0.00	761173	6408991
23	29	150.	15.	0.	90.	0.0000	360.	90.	0.00	-0.800	-	-	760636	6409261
24	5	400.	500.	0.	90.	0.0050	0.	90.	0.00	0.004	0.19	0.00	762721	6410320
25	6	400.	500.	0.	90.	0.0000	0.	90.	0.00	0.350	0.00	14.89	761447	6410755
26	16	150.	15.	0.	90.	0.0000	360.	90.	0.00	-0.800	-	-	762618	6408562
27	4	340.	300.	0.	90.	0.0050	0.	90.	0.00	0.004	0.19	0.00	762768	6411555
28	3	250.	200.	0.	90.	0.0050	0.	90.	0.00	0.004	0.19	0.00	761988	6410831
29	4	100.	200.	0.	90.	0.0020	0.	90.	0.00	0.050	0.08	2.05	762040	6409549
30	3	250.	200.	0.	90.	0.0050	0.	90.	0.00	0.354	0.19	14.86	761994	6408876
31	3	200.	100.	0.	90.	0.0050	0.	90.	0.00	0.354	0.19	14.86	761217	6410066
32	9	150.	25.	0.	90.	0.0000	360.	90.	0.00	0.800	0.00	34.04	761918	6407630
33	6	150.	15.	0.	90.	0.0000	360.	90.	0.00	0.800	0.00	34.04	762175	6411330
34	3	30.	40.	0.	90.	0.0050	0.	90.	0.00	0.354	0.19	14.86	762807	6410884
35	3	30.	40.	0.	90.	0.0050	0.	90.	0.00	0.354	0.19	14.86	760360	6409515

APPENDIX 4

Gravity Data

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
-89					base	762167.137	6408108.295	762038.034	6407937.391	27/02/2008	22.043	137.7882915	-32.43333081	9:23:03	3071.384
89					base	762167.137	6408108.295	762038.037	6407937.363	27/02/2008	22.043	137.7882916	-32.43333106	9:24:14	3071.385
7000					field	760802.992	6411596.242	760673.896	6411425.302	27/02/2008	5.306	137.7728356	-32.40222275	12:42:07	3070.17
7001					field	760607.419	6411598.716	760478.324	6411427.776	27/02/2008	5.72	137.7707577	-32.40224618	12:48:55	3070.533
7002					field	760401.347	6411608.262	760272.252	6411437.322	27/02/2008	10.68	137.7685663	-32.4022083	12:54:26	3069.633
7003					field	760200.421	6411598.771	760071.326	6411427.831	27/02/2008	13.221	137.7664348	-32.40234072	13:01:17	3069.173
7004					field	760211.21	6411794.862	760082.116	6411623.922	27/02/2008	10.864	137.7664955	-32.40057128	13:06:47	3069.323
7005					field	760403.265	6411800.819	760274.17	6411629.879	27/02/2008	13.859	137.7685337	-32.40047278	13:12:03	3068.536
7006					field	760598.273	6411802.873	760469.177	6411631.932	27/02/2008	11.221	137.7706043	-32.40040873	13:17:24	3068.955
7007					field	760804.838	6411809.341	760675.742	6411638.401	27/02/2008	12.515	137.7727964	-32.40030216	13:23:19	3068.224
7008					field	761001.995	6411811.178	760872.899	6411640.237	27/02/2008	11.071	137.7748899	-32.40023949	13:28:59	3068.542
7009					field	761197.098	6411795.923	761068.001	6411624.982	27/02/2008	6.158	137.7769663	-32.40033127	13:35:14	3069.591
7010					field	761401.189	6411800.584	761272.092	6411629.643	27/02/2008	11.463	137.7791327	-32.40024146	13:40:07	3068.5
7011					field	761601.211	6411802.224	761472.114	6411631.283	27/02/2008	16.838	137.7812566	-32.40017978	13:46:53	3067.156
7012					field	761803.721	6411795.239	761674.623	6411624.298	27/02/2008	18.431	137.7834094	-32.4001952	13:54:23	3066.866
7013					field	762001.872	6411804.329	761872.773	6411633.389	27/02/2008	14.957	137.7855114	-32.40006676	14:01:25	3067.876
7014					field	762196.831	6411800.126	762067.732	6411629.185	27/02/2008	21.13	137.7875832	-32.40005882	14:07:37	3066.507
7015					field	762407.901	6411802.539	762278.801	6411631.598	27/02/2008	21.569	137.7898243	-32.39998744	14:13:55	3066.41
7016					field	762601.287	6411800.992	762472.187	6411630.051	27/02/2008	17.91	137.7918786	-32.39995586	14:19:55	3067.414
7017					field	762801.039	6411803.154	762671.939	6411632.213	27/02/2008	19.617	137.7939995	-32.39988933	14:27:10	3067.124
7018					field	763001.444	6411796.66	762872.343	6411625.719	27/02/2008	17.318	137.7961298	-32.39990061	14:33:19	3067.663
7019					field	763003.713	6411597.985	762874.612	6411427.044	27/02/2008	16.197	137.7962091	-32.40169023	14:42:54	3068.22
7020					field	762799.67	6411601.759	762670.57	6411430.818	27/02/2008	16.154	137.7940409	-32.40170432	14:49:51	3068.153
7021					field	762603.137	6411598.961	762474.037	6411428.02	27/02/2008	16.249	137.7919543	-32.40177583	14:57:22	3068.071
7022					field	762405.009	6411605.435	762275.909	6411434.494	27/02/2008	15.704	137.7898482	-32.40176413	15:04:54	3068.171
7023					field	762202.475	6411606.712	762073.376	6411435.771	27/02/2008	13.376	137.7876967	-32.40180026	15:15:51	3068.69
7024					field	762000.907	6411599.203	761871.808	6411428.262	27/02/2008	11.026	137.785558	-32.40191529	15:26:59	3069.201
7025					field	761792.067	6411596.221	761662.968	6411425.281	27/02/2008	11.915	137.7833407	-32.4019912	15:33:31	3068.788
7026					field	761603.392	6411601.564	761474.294	6411430.624	27/02/2008	17.427	137.7813353	-32.40198733	15:41:26	3067.398
7027					field	761407.523	6411599.437	761278.425	6411428.497	27/02/2008	14.252	137.7792555	-32.40205242	15:52:05	3068.218
7028					field	761197.531	6411605.982	761068.434	6411435.042	27/02/2008	8.907	137.7770234	-32.40204265	16:00:46	3069.293
7029					field	761009.687	6411600.556	760880.591	6411429.616	27/02/2008	6.95	137.7750297	-32.40213552	16:07:50	3069.972
7000	-0.008	-0.008	-0.013	-0.006	repeat	760802.984	6411596.234	760673.888	6411425.295	27/02/2008	5.293	137.7728355	-32.40222282	16:16:18	3070.232
89					base	762167.137	6408108.295	762038.037	6407937.363	27/02/2008	22.043	137.7882916	-32.43333106	16:34:48	3071.557
-89					base	762167.137	6408108.295	762038.034	6407937.391	27/02/2008	22.043	137.7882915	-32.43333081	16:35:59	3071.552
-89					base	762167.137	6408108.295	762038.034	6407937.391	28/02/2008	22.043	137.7882915	-32.43333081	7:09:22	3071.82
89					base	762167.137	6408108.295	762038.037	6407937.363	28/02/2008	22.043	137.7882916	-32.43333106	7:10:33	3071.822
7030					field	761000.749	6411400.159	760871.652	6411229.219	28/02/2008	3.945	137.7749901	-32.40394332	7:46:52	3071.228

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7031					field	760801.283	6411399.503	760672.186	6411228.564	28/02/2008	2.307	137.7728717	-32.40399589	7:57:05	3071.507
7032					field	760599.847	6411398.241	760470.751	6411227.301	28/02/2008	2.502	137.7707325	-32.40405436	8:06:56	3071.976
7033					field	760401.704	6411403.279	760272.609	6411232.34	28/02/2008	10.752	137.7686265	-32.40405525	8:13:17	3070.311
7034					field	760200.638	6411401.255	760071.543	6411230.316	28/02/2008	14.405	137.7664915	-32.40412042	8:19:37	3069.577
7035					field	760203.861	6411199.498	760074.766	6411028.559	28/02/2008	20.354	137.7665812	-32.40593764	8:25:45	3068.498
7036					field	760402.317	6411202.806	760273.222	6411031.868	28/02/2008	14.963	137.7686882	-32.4058615	8:31:41	3069.619
7037					field	760602.773	6411200.691	760473.677	6411029.752	28/02/2008	7.258	137.770818	-32.40583373	8:39:32	3071.097
7030	0.003	-0.001	-0.024	-0.006	repeat	761000.76	6411400.155	760871.663	6411229.215	28/02/2008	3.904	137.7749902	-32.40394335	9:00:07	3071.264
7038					field	761204.057	6411402.3	761074.96	6411231.361	28/02/2008	7.998	137.7771489	-32.40387642	9:14:17	3070.189
7039					field	761401.057	6411399.428	761271.96	6411228.488	28/02/2008	12.368	137.7792421	-32.40385614	9:19:52	3069.313
7040					field	761601.729	6411399.932	761472.631	6411228.992	28/02/2008	14.907	137.7813734	-32.40380454	9:24:34	3068.634
7041					field	761802.444	6411398.815	761673.345	6411227.875	28/02/2008	11.828	137.7835055	-32.4037675	9:29:06	3069.544
7042					field	762002.015	6411399.443	761872.916	6411228.503	28/02/2008	10.936	137.7856251	-32.40371497	9:32:59	3069.919
7043					field	762202.06	6411400.884	762072.961	6411229.944	28/02/2008	13.61	137.7877494	-32.40365497	9:37:02	3069.43
7044					field	762401.129	6411400.645	762272.029	6411229.705	28/02/2008	14.974	137.7898638	-32.4036103	9:41:45	3069.07
7045					field	762601.776	6411400.057	762472.676	6411229.117	28/02/2008	16.245	137.7919951	-32.40356837	9:46:03	3068.727
7046					field	762800.4	6411402.474	762671.3	6411231.534	28/02/2008	14.42	137.794104	-32.4034998	9:50:20	3069.278
7047					field	763003.481	6411401.159	762874.38	6411230.219	28/02/2008	14.177	137.7962613	-32.40346377	9:54:39	3069.377
7048					field	763001.576	6411200.282	762872.475	6411029.342	28/02/2008	13.369	137.796297	-32.40527422	9:58:59	3069.739
7049					field	762800.948	6411202.067	762671.847	6411031.128	28/02/2008	13.194	137.7941655	-32.40530543	10:03:04	3069.841
7050					field	762600.191	6411200.955	762471.091	6411030.015	28/02/2008	12.317	137.7920335	-32.40536275	10:07:21	3069.97
7051					field	762402.316	6411200.586	762273.216	6411029.646	28/02/2008	11.948	137.7899319	-32.40541266	10:11:53	3070.105
7043	0	0.001	-0.007	0.007	repeat	762202.06	6411400.885	762072.961	6411229.945	28/02/2008	13.603	137.7877494	-32.40365496	10:20:00	3069.464
7052					field	762201.551	6411199.872	762072.452	6411028.933	28/02/2008	10.862	137.7877997	-32.40546631	10:24:32	3070.39
7053					field	762001.288	6411200.009	761872.189	6411029.07	28/02/2008	10.849	137.7856726	-32.40551215	10:28:37	3070.32
7054					field	761801.038	6411200.766	761671.94	6411029.827	28/02/2008	11.763	137.7835454	-32.40555236	10:33:49	3069.907
7055					field	761600.754	6411199.522	761471.656	6411028.583	28/02/2008	14.117	137.7814184	-32.40561058	10:38:21	3069.126
7056					field	761400.812	6411201.678	761271.715	6411030.739	28/02/2008	15.593	137.7792941	-32.40563804	10:45:59	3068.937
7057					field	761201.26	6411200.789	761072.163	6411029.85	28/02/2008	7.612	137.7771748	-32.40569281	10:50:48	3070.744
7030	0.004	-0.002	0.006	-0.001	repeat	761000.761	6411400.154	760871.664	6411229.214	28/02/2008	3.934	137.7749902	-32.40394336	10:58:15	3071.344
7058					field	761400.671	6410999.651	761271.573	6410828.712	28/02/2008	14.627	137.7793485	-32.40745846	11:55:17	3069.522
7059					field	761602.949	6411001.062	761473.851	6410830.123	28/02/2008	14.608	137.7814966	-32.4073983	12:01:29	3069.463
7060					field	761800.968	6411001.889	761671.87	6410830.95	28/02/2008	14.378	137.7835997	-32.40734437	12:06:37	3069.671
7061					field	762006.718	6410999.968	761877.618	6410829.029	28/02/2008	10.886	137.7857856	-32.40731335	12:11:41	3070.597
7062					field	762200.525	6411001.673	762071.426	6410830.734	28/02/2008	10.971	137.7878437	-32.40725243	12:16:51	3070.634
7063					field	762403.312	6411004.117	762274.212	6410833.177	28/02/2008	12.799	137.789997	-32.40718271	12:21:53	3070.201
7064					field	762604.333	6410997.467	762475.232	6410826.528	28/02/2008	11.191	137.792134	-32.4071953	12:26:39	3070.651
7065					field	762801.736	6410998.452	762672.635	6410827.512	28/02/2008	12.965	137.7942305	-32.40713992	12:32:02	3070.269

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7048	-0.008	-0.016	0.007	0.03	repeat	763001.568	6411200.266	762872.467	6411029.326	28/02/2008	13.376	137.7962969	-32.40527436	12:39:10	3069.853
7066					field	763000.896	6411001.344	762871.794	6410830.404	28/02/2008	12.856	137.796345	-32.4070669	12:45:45	3070.18
7067					field	763002.688	6410802.753	762873.587	6410631.814	28/02/2008	12.713	137.7964193	-32.40885587	12:51:05	3070.358
7068					field	762804.682	6410800.767	762675.581	6410629.828	28/02/2008	13.444	137.7943167	-32.40892046	13:00:12	3070.38
7069					field	762600.529	6410798.597	762471.428	6410627.658	28/02/2008	13.489	137.7921488	-32.40898811	13:05:01	3070.365
7070					field	762402.13	6410800.648	762273.03	6410629.709	28/02/2008	12.434	137.7900409	-32.40901634	13:12:03	3070.686
7071					field	762205.136	6410801.511	762076.036	6410630.572	28/02/2008	14.585	137.7879482	-32.40905491	13:18:14	3070.084
7072					field	761996.311	6410801.054	761867.212	6410630.116	28/02/2008	16.635	137.7857302	-32.40910812	13:26:06	3069.571
7073					field	761803.639	6410799.506	761674.54	6410628.567	28/02/2008	11.265	137.7836841	-32.40916733	13:32:28	3070.769
7074					field	761605.142	6410799.905	761476.044	6410628.967	28/02/2008	11.984	137.7815756	-32.40921032	13:40:30	3070.478
7058	-0.003	-0.005	0.013	-0.002	repeat	761400.67	6410999.641	761271.572	6410828.702	28/02/2008	14.664	137.7793485	-32.40745855	13:49:29	3069.565
7075					field	761203.259	6410997.026	761074.162	6410826.088	28/02/2008	10.066	137.7772523	-32.40752837	14:26:49	3070.62
7076					field	760784.465	6410997.067	760655.369	6410826.129	28/02/2008	3.211	137.772804	-32.40762603	14:40:28	3072.167
7077					field	760603.25	6411004.074	760474.154	6410833.136	28/02/2008	10.126	137.7708772	-32.40760526	14:47:31	3070.779
7078					field	760398.274	6411001.091	760269.178	6410830.153	28/02/2008	13.866	137.7687008	-32.40768003	14:55:33	3070.369
7079					field	760196.949	6410998.043	760067.854	6410827.105	28/02/2008	21.372	137.7665632	-32.4077545	15:02:58	3068.83
7080					field	760200.57	6410798.52	760071.475	6410627.582	28/02/2008	15.17	137.7666565	-32.40955149	15:10:27	3070.57
7081					field	760401.248	6410798.334	760272.153	6410627.397	28/02/2008	14.228	137.7687882	-32.40950631	15:18:22	3070.506
7082					field	760601.309	6410800.394	760472.213	6410629.456	28/02/2008	11.209	137.7709127	-32.40944101	15:25:32	3070.851
7083					field	760800.431	6410804.107	760671.334	6410633.169	28/02/2008	7.285	137.7730268	-32.40936099	15:32:12	3071.438
7084					field	761008.737	6410793.991	760879.64	6410623.053	28/02/2008	2.996	137.7752422	-32.40940339	15:38:35	3072.469
7085					field	761202.045	6410801.33	761072.948	6410630.392	28/02/2008	7.811	137.7772935	-32.40929199	15:45:28	3071.447
7086					field	761396.336	6410804.312	761267.238	6410633.374	28/02/2008	14.759	137.7793564	-32.40921959	15:51:29	3069.973
7058	0.005	0.001	0.01	0.002	repeat	761400.678	6410999.647	761271.581	6410828.708	28/02/2008	14.661	137.7793486	-32.40745849	16:05:06	3069.62
89					base	762167.137	6408108.295	762038.037	6407937.363	28/02/2008	22.043	137.7882916	-32.43333106	16:21:06	3072.106
-89					base	762167.137	6408108.295	762038.034	6407937.391	28/02/2008	22.043	137.7882915	-32.43333081	16:22:17	3072.102
-89					base	762167.137	6408108.295	762038.034	6407937.391	29/02/2008	22.043	137.7882915	-32.43333081	7:19:49	3072.38
89					base	762167.137	6408108.295	762038.037	6407937.363	29/02/2008	22.043	137.7882916	-32.43333106	7:21:00	3072.382
7087					field	761403.184	6410601.905	761274.086	6410430.967	29/02/2008	8.607	137.7794851	-32.41104179	8:23:39	3071.948
7088					field	761591.203	6410599.967	761462.105	6410429.029	29/02/2008	10.614	137.7814828	-32.41101515	8:30:19	3071.508
7089					field	761802.122	6410603.03	761673.023	6410432.092	29/02/2008	12.096	137.7837224	-32.41093804	8:36:28	3071.241
7090					field	762002.873	6410599.364	761873.774	6410428.426	29/02/2008	16.228	137.7858558	-32.41092391	8:41:10	3070.315
7091					field	762203.278	6410601.844	762074.178	6410430.906	29/02/2008	15.904	137.7879838	-32.41085445	8:45:39	3070.483
7092					field	762403.094	6410598.42	762273.994	6410427.482	29/02/2008	15.189	137.7901072	-32.41083829	8:49:53	3070.747
7093					field	762600.669	6410602.683	762471.569	6410431.744	29/02/2008	15.191	137.7922047	-32.41075336	8:55:34	3070.641
7094					field	762800.94	6410601.226	762671.839	6410430.287	29/02/2008	13.973	137.7943324	-32.4107193	9:01:12	3070.812
7095					field	763000.196	6410598.051	762871.094	6410427.112	29/02/2008	15.933	137.7964498	-32.41070092	9:06:51	3070.232
7096					field	762999.928	6410398.914	762870.827	6410227.976	29/02/2008	18.732	137.7965023	-32.41249529	9:11:55	3069.71

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7097					field	762802.291	6410404.107	762673.19	6410233.169	29/02/2008	17.83	137.7944015	-32.41249511	9:17:28	3070.128
7098					field	762599.828	6410400.491	762470.727	6410229.553	29/02/2008	17.679	137.7922519	-32.4125754	9:22:45	3070.324
7099					field	762400.737	6410400.405	762271.637	6410229.467	29/02/2008	18.018	137.7901371	-32.41262306	9:28:41	3070.345
7100					field	762201.14	6410399.354	762072.041	6410228.417	29/02/2008	16.356	137.7880173	-32.41267949	9:33:19	3070.748
7101					field	761998.388	6410397.59	761869.289	6410226.652	29/02/2008	15.209	137.785864	-32.41274306	9:37:35	3070.878
7102					field	761801.636	6410403.331	761672.537	6410232.393	29/02/2008	13.764	137.7837725	-32.41273755	9:43:08	3071.216
7103					field	761599.488	6410401.695	761470.389	6410230.757	29/02/2008	11.468	137.7816257	-32.41279975	9:49:49	3071.552
7104					field	761401.057	6410399.967	761271.959	6410229.03	29/02/2008	11.243	137.7795183	-32.41286186	9:55:31	3071.559
7087	0.02	-0.005	0.007	-0.014	repeat	761403.204	6410601.9	761274.106	6410430.962	29/02/2008	8.614	137.7794853	-32.41104183	10:00:56	3071.999
7105					field	761199.395	6410599.714	761070.297	6410428.776	29/02/2008	10.082	137.777321	-32.4111093	10:10:37	3071.597
7106					field	761004.398	6410601.241	760875.301	6410430.303	29/02/2008	3.503	137.7752493	-32.41114121	10:18:25	3073.016
7107					field	760801.26	6410597.104	760672.163	6410426.167	29/02/2008	4.031	137.7730927	-32.41122602	10:26:35	3072.945
7108					field	760599.064	6410600.048	760469.968	6410429.11	29/02/2008	4.101	137.7709441	-32.41124678	10:32:41	3073.123
7109					field	760397.407	6410600.414	760268.311	6410429.477	29/02/2008	8.498	137.7688019	-32.4112906	10:39:12	3072.527
7110					field	760200.812	6410599.41	760071.717	6410428.473	29/02/2008	16.089	137.7667139	-32.41134555	10:46:47	3071.054
7111					field	760200.686	6410399.148	760071.591	6410228.212	29/02/2008	8.4	137.7667677	-32.41315007	10:52:04	3073.066
7112					field	760402.885	6410400.231	760273.79	6410229.294	29/02/2008	2.675	137.7689152	-32.4130931	10:58:19	3074.154
7113					field	760602.863	6410399.816	760473.767	6410228.879	29/02/2008	2.403	137.7710396	-32.41305011	11:06:21	3073.86
7114					field	760804.64	6410399.806	760675.543	6410228.869	29/02/2008	4.184	137.773183	-32.41300301	11:14:01	3073.23
7115					field	761003.801	6410398.767	760874.703	6410227.83	29/02/2008	6.821	137.7752988	-32.41296576	11:20:51	3072.605
7116					field	761202.897	6410400.976	761073.8	6410230.039	29/02/2008	8.913	137.7774131	-32.41289922	11:29:39	3072.237
7104	-0.001	-0.009	0.016	0.002	repeat	761401.056	6410399.958	761271.958	6410229.02	29/02/2008	11.259	137.7795183	-32.41286195	11:34:46	3071.632
7117					field	761802.365	6410200.04	761673.266	6410029.103	29/02/2008	12.082	137.7838365	-32.41456914	12:51:36	3071.974
7118					field	762002.166	6410199.53	761873.067	6410028.593	29/02/2008	14.194	137.7859591	-32.41452679	12:55:28	3071.617
7119					field	762202.837	6410200.048	762073.737	6410029.111	29/02/2008	13.725	137.7880905	-32.41447494	13:00:02	3071.774
7120					field	762401.325	6410201.707	762272.224	6410030.769	29/02/2008	14.221	137.7901985	-32.41441329	13:03:45	3071.672
7121					field	762601.689	6410201.216	762472.588	6410030.278	29/02/2008	15.886	137.792327	-32.41437053	13:07:31	3071.184
7122					field	762800.806	6410199.615	762671.705	6410028.677	29/02/2008	17.711	137.7944426	-32.41433803	13:12:44	3070.498
7123					field	763001.365	6410199.984	762872.263	6410029.047	29/02/2008	21.234	137.7965729	-32.4142874	13:16:48	3069.492
7124					field	763001.982	6409999.613	762872.88	6409828.675	29/02/2008	14.024	137.7966352	-32.41609269	13:22:20	3071.494
7125					field	762800.491	6410002.031	762671.389	6409831.094	29/02/2008	15.058	137.7944941	-32.41611842	13:26:02	3071.323
7126					field	762600.962	6409999.456	762471.861	6409828.519	29/02/2008	12.224	137.7923753	-32.41618865	13:29:55	3072.216
7127					field	762399.574	6410000.649	762270.473	6409829.712	29/02/2008	12.532	137.7902357	-32.41622533	13:33:31	3072.33
7128					field	762200.649	6409999.174	762071.549	6409828.237	29/02/2008	12.982	137.788123	-32.41628543	13:37:57	3072.307
7129					field	762000.394	6410002.529	761871.295	6409831.592	29/02/2008	16.202	137.7859948	-32.41630229	13:42:40	3071.476
7130					field	761800.887	6410001.245	761671.788	6409830.308	29/02/2008	12.755	137.7838759	-32.41636074	13:46:27	3072.1
7117	0	-0.006	-0.001	-0.008	repeat	761802.365	6410200.034	761673.266	6410029.097	29/02/2008	12.081	137.7838365	-32.41456919	13:51:05	3072.004
7131					field	761600.864	6410199.581	761471.765	6410028.644	29/02/2008	14.581	137.7816962	-32.41462058	13:58:24	3071.331

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7132					field	761399.529	6410201.752	761270.431	6410030.816	29/02/2008	15.359	137.7795569	-32.41464825	14:03:07	3071.101
7133					field	761198.234	6410202.078	761069.137	6410031.141	29/02/2008	11.065	137.7774185	-32.4146925	14:07:36	3072.132
7134					field	761000.636	6410200.424	760871.539	6410029.487	29/02/2008	12.148	137.77532	-32.41475369	14:11:59	3071.905
7135					field	760800.306	6410200.516	760671.209	6410029.579	29/02/2008	4.622	137.7731919	-32.41479975	14:16:18	3073.532
7136					field	760599.809	6410200.294	760470.712	6410029.358	29/02/2008	2.771	137.7710621	-32.41484864	14:23:06	3074.068
7137					field	760398.717	6410201.093	760269.621	6410030.156	29/02/2008	2.271	137.7689258	-32.41488844	14:32:16	3074.518
7138					field	760198.994	6410200.337	760069.898	6410029.4	29/02/2008	2.344	137.7668044	-32.41494189	14:37:17	3074.866
7139					field	760201.247	6410000.007	760072.151	6409829.071	29/02/2008	2.313	137.7668835	-32.41674647	14:43:35	3075.068
7140					field	760402.798	6409999.262	760273.702	6409828.326	29/02/2008	2.545	137.7690247	-32.41670611	14:48:14	3074.653
7141					field	760600.799	6409999.731	760471.702	6409828.795	29/02/2008	5.217	137.7711279	-32.41665561	14:53:11	3073.901
7142					field	760804.238	6410000.647	760675.141	6409829.711	29/02/2008	11.054	137.7732888	-32.41659977	14:59:03	3072.498
7143					field	761002.097	6410000.963	760872.999	6409830.027	29/02/2008	14.674	137.7753905	-32.41655061	15:04:46	3071.532
7144					field	761201.734	6410000.601	761072.637	6409829.664	29/02/2008	11.37	137.7775114	-32.41650711	15:09:04	3072.419
7145					field	761401.226	6410000.503	761272.128	6409829.567	29/02/2008	14.663	137.7796306	-32.41646122	15:13:09	3071.685
7146					field	761602.301	6410001.682	761473.202	6409830.745	29/02/2008	19.145	137.7817662	-32.41640343	15:17:23	3070.611
7130	0.001	0	-0.01	-0.014	repeat	761800.888	6410001.245	761671.789	6409830.308	29/02/2008	12.745	137.7838759	-32.41636074	15:22:18	3072.142
89					base	762167.137	6408108.295	762038.037	6407937.363	29/02/2008	22.043	137.7882916	-32.43333106	15:37:04	3072.698
-89					base	762167.137	6408108.295	762038.034	6407937.391	29/02/2008	22.043	137.7882915	-32.43333081	15:38:15	3072.7
-89					base	762167.137	6408108.295	762038.034	6407937.391	1/03/2008	22.043	137.7882915	-32.43333081	6:48:15	3072.976
89					base	762167.137	6408108.295	762038.037	6407937.363	1/03/2008	22.043	137.7882916	-32.43333106	6:49:26	3072.978
7147					field	761804.211	6409801.122	761675.112	6409630.186	1/03/2008	9.288	137.7839666	-32.41816317	7:29:51	3073.605
7148					field	761996.882	6409802.342	761867.783	6409631.406	1/03/2008	10.593	137.786013	-32.4181069	7:35:30	3073.398
7149					field	762203.518	6409804.759	762074.418	6409633.823	1/03/2008	12.008	137.7882074	-32.41803653	7:42:41	3073.056
7150					field	762402.382	6409801.055	762273.282	6409630.118	1/03/2008	10.631	137.7903209	-32.41802311	7:47:23	3073.35
7151					field	762601.266	6409799.667	762472.164	6409628.731	1/03/2008	10.01	137.792434	-32.41798877	7:54:19	3073.312
7152					field	762802.624	6409802.041	762673.522	6409631.104	1/03/2008	10.444	137.7945724	-32.41791992	7:59:11	3073.02
7153					field	763001.987	6409800.086	762872.885	6409629.149	1/03/2008	11.988	137.7966907	-32.41789051	8:04:07	3072.561
7154					field	762999.09	6409600.663	762869.988	6409429.727	1/03/2008	12.425	137.7967154	-32.41968808	8:08:42	3072.775
7155					field	762801.575	6409601.307	762672.473	6409430.371	1/03/2008	11.316	137.794617	-32.41972887	8:13:20	3073.103
7156					field	762601.059	6409599.929	762471.958	6409428.993	1/03/2008	8.971	137.7924873	-32.41978855	8:19:39	3073.797
7157					field	762401.242	6409600.327	762272.141	6409429.391	1/03/2008	10.973	137.7903645	-32.41983203	8:24:21	3073.423
7158					field	762201.337	6409600.859	762072.237	6409429.923	1/03/2008	10.414	137.7882408	-32.41987429	8:29:12	3073.678
7159					field	762000.112	6409599.4	761871.012	6409428.464	1/03/2008	13.362	137.7861035	-32.41993476	8:36:11	3073.034
7160					field	761802.556	6409597.425	761673.457	6409426.489	1/03/2008	12.057	137.7840054	-32.41999898	8:42:18	3073.271
7147	-0.009	-0.019	0.01	-0.004	repeat	761804.202	6409801.103	761675.103	6409630.166	1/03/2008	9.298	137.7839665	-32.41816335	8:48:22	3073.626
7161					field	761601.84	6409798.062	761472.741	6409627.126	1/03/2008	12.953	137.7818177	-32.41823826	9:07:40	3072.725
7162					field	761402.931	6409799.924	761273.832	6409628.989	1/03/2008	12.433	137.7797041	-32.41826815	9:14:23	3072.788
7163					field	761197.612	6409800.296	761068.514	6409629.36	1/03/2008	13.711	137.7775229	-32.41831294	9:19:44	3072.459

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7164					field	761001.678	6409797.567	760872.581	6409626.631	1/03/2008	14.234	137.7754423	-32.41838343	9:24:40	3072.259
7165					field	760795.569	6409798.087	760666.472	6409627.152	1/03/2008	9.588	137.7732526	-32.41842699	9:29:40	3073.438
7166					field	760602.069	6409795.338	760472.972	6409624.403	1/03/2008	9.348	137.7711978	-32.41849702	9:35:15	3073.557
7167					field	760400.483	6409801.795	760271.387	6409630.859	1/03/2008	5.571	137.7690545	-32.41848596	9:41:10	3074.388
7168					field	760208.82	6409790.794	760079.724	6409619.858	1/03/2008	2.519	137.7670215	-32.41862985	9:49:26	3075.505
7169					field	760200.181	6409600.787	760071.085	6409429.851	1/03/2008	4.542	137.766982	-32.42034396	9:59:46	3075.008
7170					field	760403.28	6409600.721	760274.184	6409429.786	1/03/2008	8.649	137.7691396	-32.42029711	10:05:36	3074.025
7171					field	760599.048	6409599.513	760469.952	6409428.577	1/03/2008	10.051	137.7712197	-32.42026224	10:11:19	3073.613
7172					field	760802.301	6409600.508	760673.204	6409429.573	1/03/2008	11.035	137.7733786	-32.42020572	10:16:25	3073.339
7173					field	761002.281	6409599.735	760873.183	6409428.8	1/03/2008	11.01	137.7755033	-32.42016587	10:21:32	3073.412
7174					field	761201.33	6409599.85	761072.232	6409428.915	1/03/2008	10.905	137.7776178	-32.4201182	10:26:04	3073.476
7175					field	761402.113	6409600.545	761273.015	6409429.61	1/03/2008	10.793	137.7797506	-32.42006486	10:30:32	3073.527
7176					field	761600.087	6409602.265	761470.988	6409431.33	1/03/2008	10.027	137.7818532	-32.42000291	10:35:30	3073.69
7161	-0.01	0.002	0.005	0	repeat	761601.83	6409798.064	761472.731	6409627.128	1/03/2008	12.958	137.7818175	-32.41823825	10:40:30	3072.777
7177					field	761802.546	6409400.161	761673.447	6409229.226	1/03/2008	10.937	137.78406	-32.42177643	11:40:50	3073.957
7178					field	761600.149	6409398.976	761471.05	6409228.041	1/03/2008	8.906	137.7819101	-32.42183464	11:46:50	3074.248
7179					field	761400.092	6409400.618	761270.994	6409229.683	1/03/2008	13.428	137.7797844	-32.42186679	11:51:16	3073.28
7180					field	761200.175	6409402.028	761071.077	6409231.093	1/03/2008	12.916	137.7776602	-32.42190096	11:56:43	3073.373
7181					field	761000.227	6409400.632	760871.13	6409229.697	1/03/2008	12.655	137.7755364	-32.42196039	12:00:23	3073.449
7182					field	760799.954	6409400.166	760670.857	6409229.231	1/03/2008	12.641	137.773409	-32.42201148	12:03:57	3073.318
7183					field	760601.317	6409400.894	760472.22	6409229.959	1/03/2008	10.464	137.7712985	-32.42205139	12:07:44	3073.806
7184					field	760404.603	6409399.272	760275.507	6409228.337	1/03/2008	7.53	137.7692092	-32.42211199	12:11:51	3074.814
7185					field	760198.034	6409401.82	760068.938	6409230.885	1/03/2008	5.999	137.767014	-32.42213728	12:16:07	3075.188
7186					field	760202.145	6409199.283	760073.049	6409028.349	1/03/2008	5.875	137.7671134	-32.42396131	12:19:50	3075.667
7187					field	760400.865	6409200.545	760271.769	6409029.611	1/03/2008	6.835	137.7692242	-32.42390352	12:23:54	3075.308
7188					field	760603.659	6409185.446	760474.563	6409014.512	1/03/2008	10.827	137.7713828	-32.42399216	12:27:53	3073.919
7189					field	760802.446	6409199.784	760673.348	6409028.849	1/03/2008	13.428	137.7734907	-32.42381646	12:33:22	3073.443
7190					field	761002.144	6409200.153	760873.047	6409029.218	1/03/2008	15.634	137.7756122	-32.42376638	12:37:07	3073.071
7191					field	761203.246	6409199.982	761074.148	6409029.048	1/03/2008	11.961	137.7777487	-32.42372079	12:40:51	3073.942
7192					field	761402.103	6409200.666	761273.004	6409029.731	1/03/2008	9.68	137.7798611	-32.423668	12:44:38	3074.431
7193					field	761602.497	6409200.153	761473.398	6409029.219	1/03/2008	9.522	137.7819901	-32.42362559	12:48:33	3074.493
7194					field	761805.105	6409199.104	761676.006	6409028.169	1/03/2008	9.636	137.7841428	-32.42358746	12:53:57	3074.639
7177	0.002	0.003	-0.01	-0.008	repeat	761802.548	6409400.164	761673.449	6409229.228	1/03/2008	10.927	137.78406	-32.42177641	13:01:54	3074.011
7195					field	762000.456	6409402.926	761871.356	6409231.99	1/03/2008	11.054	137.7861617	-32.42170501	13:24:43	3074.027
7196					field	762209.484	6409404.137	762080.384	6409233.202	1/03/2008	14.14	137.7883819	-32.42164493	13:29:07	3073.224
7197					field	762400.232	6409408.286	762271.131	6409237.351	1/03/2008	13.029	137.7904071	-32.42156265	13:33:42	3073.262
7198					field	762601.426	6409399.428	762472.325	6409228.493	1/03/2008	10.392	137.7925469	-32.42159507	13:38:36	3073.911
7199					field	762802.675	6409400.192	762673.573	6409229.256	1/03/2008	12.173	137.7946846	-32.42154075	13:42:25	3073.379

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station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7200					field	763001.676	6409399.61	762872.574	6409228.674	1/03/2008	15.683	137.7967988	-32.42149905	13:48:10	3072.534
7201					field	763003.689	6409200.006	762874.587	6409029.07	1/03/2008	14.246	137.7968758	-32.42329709	13:54:30	3073.252
7202					field	762800.507	6409199.897	762671.405	6409028.961	1/03/2008	12.85	137.7947173	-32.42334601	13:59:56	3073.494
7203					field	762597.738	6409201.515	762468.637	6409030.58	1/03/2008	13.53	137.7925627	-32.42337923	14:04:28	3073.459
7204					field	762402.617	6409200.239	762273.516	6409029.304	1/03/2008	10.574	137.7904902	-32.42343669	14:11:35	3074.212
7205					field	762197.817	6409197.757	762068.717	6409026.822	1/03/2008	13.707	137.7883152	-32.42350726	14:16:10	3073.64
7206					field	762000.731	6409193.741	761871.631	6409022.806	1/03/2008	10.466	137.7862226	-32.42358981	14:20:57	3074.534
7195	-0.002	-0.002	-0.017	0.014	repeat	762000.454	6409402.924	761871.355	6409231.988	1/03/2008	11.037	137.7861616	-32.42170503	14:26:49	3074.088
7207					field	761002.339	6411199.644	760873.242	6411028.705	1/03/2008	2.474	137.7750623	-32.40574971	14:57:29	3073.231
7208					field	760801.717	6411198.867	760672.621	6411027.928	1/03/2008	2.309	137.7729316	-32.40580365	15:01:52	3073.233
7209					field	760999.583	6410997.911	760870.486	6410826.973	1/03/2008	2.721	137.7750887	-32.40756809	15:13:30	3073.462
89					base	762167.137	6408108.295	762038.037	6407937.363	1/03/2008	22.043	137.7882916	-32.43333106	15:41:23	3073.292
-89					base	762167.137	6408108.295	762038.034	6407937.391	1/03/2008	22.043	137.7882915	-32.43333081	15:42:34	3073.292
-89					base	762167.137	6408108.295	762038.034	6407937.391	2/03/2008	22.043	137.7882915	-32.43333081	8:01:20	3071.867
89					base	762167.137	6408108.295	762038.037	6407937.363	2/03/2008	22.043	137.7882916	-32.43333106	8:02:31	3071.867
7210					field	761800.2	6409002.365	761671.101	6408831.43	2/03/2008	10.068	137.7841452	-32.42536134	8:41:00	3073.558
7211					field	761600.75	6409001.135	761471.651	6408830.201	2/03/2008	9.081	137.7820266	-32.42541926	8:50:12	3073.651
7212					field	761407.927	6409000.596	761278.828	6408829.661	2/03/2008	9.616	137.7799783	-32.42546938	8:56:45	3073.43
7213					field	761202.297	6409000.155	761073.199	6408829.221	2/03/2008	12.576	137.7777938	-32.42552157	9:03:51	3072.806
7214					field	760999.389	6409000.766	760870.291	6408829.832	2/03/2008	15.611	137.775638	-32.42556362	9:10:56	3072.116
7215					field	760800.341	6408999.385	760671.243	6408828.451	2/03/2008	14.95	137.7735237	-32.42562267	9:18:22	3072.14
7216					field	760601.11	6408999.96	760472.013	6408829.026	2/03/2008	10.302	137.7714069	-32.4256641	9:24:47	3073.147
7217					field	760404.353	6408999.655	760275.257	6408828.721	2/03/2008	7.391	137.7693166	-32.42571285	9:32:33	3074.356
7218					field	760203.459	6408998.474	760074.363	6408827.54	2/03/2008	5.761	137.7671827	-32.42577043	9:39:23	3074.932
7219					field	760199.361	6408796.164	760070.265	6408625.23	2/03/2008	7.724	137.7671948	-32.42759433	9:49:08	3074.773
7220					field	760405.408	6408800.535	760276.312	6408629.602	2/03/2008	11.076	137.7693827	-32.4275068	9:55:15	3073.743
7221					field	760602.222	6408800.784	760473.125	6408629.851	2/03/2008	14.37	137.7714736	-32.42745854	10:01:42	3072.532
7222					field	760799.971	6408800.517	760670.874	6408629.584	2/03/2008	17.427	137.7735746	-32.42741467	10:07:55	3071.896
7223					field	761002.115	6408803.905	760873.018	6408632.971	2/03/2008	16.107	137.7757213	-32.42733681	10:13:48	3072.397
7224					field	761203.485	6408799.752	761074.387	6408628.818	2/03/2008	12.417	137.7778618	-32.42732704	10:18:19	3073.205
7225					field	761402.885	6408800.036	761273.787	6408629.103	2/03/2008	10.902	137.7799802	-32.42727771	10:22:42	3073.519
7226					field	761602.674	6408798.767	761473.575	6408627.833	2/03/2008	10.202	137.7821031	-32.42724226	10:27:46	3073.764
7227					field	761801.275	6408798.06	761672.175	6408627.126	2/03/2008	10.975	137.7842132	-32.42720198	10:33:52	3073.644
7210	0.001	-0.001	-0.002	0.021	repeat	761800.201	6409002.364	761671.102	6408831.43	2/03/2008	10.066	137.7841452	-32.42536134	10:39:43	3073.618
7228					field	762001.577	6408997.872	761872.477	6408826.937	2/03/2008	9.257	137.7862859	-32.42535449	10:54:43	3073.801
7229					field	762202.831	6409000.233	762073.73	6408829.299	2/03/2008	10.862	137.7884233	-32.42528587	11:05:06	3073.284
7230					field	762401.439	6409000.28	762272.338	6408829.346	2/03/2008	11.074	137.7905332	-32.42523869	11:11:29	3073.124
7231					field	762603.809	6408999.2	762474.708	6408828.265	2/03/2008	10.418	137.7926835	-32.42520075	11:17:36	3073.149

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station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7232					field	762804.971	6409002.748	762675.869	6408831.814	2/03/2008	11.254	137.7948196	-32.42512135	11:24:17	3072.814
7233					field	763003.618	6408999.7	762874.516	6408828.765	2/03/2008	13.355	137.7969308	-32.42510195	11:30:07	3072.493
7234					field	762999.725	6408800.817	762870.623	6408629.882	2/03/2008	13.662	137.7969448	-32.42689489	11:36:40	3072.667
7235					field	762801.848	6408800.406	762672.746	6408629.472	2/03/2008	12.712	137.7948426	-32.42694528	11:41:59	3072.731
7236					field	762602.603	6408798.5	762473.502	6408627.566	2/03/2008	13.376	137.7927264	-32.42700943	11:47:02	3072.724
7237					field	762400.041	6408802.776	762270.94	6408631.842	2/03/2008	12.876	137.7905732	-32.42701863	11:53:51	3073.037
7238					field	762200.344	6408800.167	762071.243	6408629.233	2/03/2008	10.126	137.7884524	-32.42708915	11:59:27	3073.762
7239					field	761999.844	6408801.226	761870.744	6408630.292	2/03/2008	9.421	137.786322	-32.42712677	12:05:16	3074.054
7228	0.008	-0.012	0.003	0.009	repeat	762001.585	6408997.86	761872.485	6408826.926	2/03/2008	9.26	137.7862859	-32.42535459	12:12:54	3073.865
7240					field	761996.316	6408602.914	761867.216	6408431.981	2/03/2008	12.677	137.7863395	-32.42891449	14:06:56	3073.653
7241					field	762000.979	6408400.068	761871.879	6408229.135	2/03/2008	12.567	137.7864453	-32.43074114	14:11:47	3073.984
7242					field	761797.611	6408402.465	761668.511	6408231.532	2/03/2008	10.381	137.7842839	-32.43076735	14:18:14	3074.513
7243					field	761602.443	6408403.706	761473.343	6408232.773	2/03/2008	9.74	137.78221	-32.43080202	14:23:48	3074.721
7244					field	761401.267	6408399.971	761272.168	6408229.038	2/03/2008	11.197	137.7800737	-32.4308829	14:27:55	3074.293
7245					field	761200.446	6408400.758	761071.347	6408229.826	2/03/2008	13.216	137.7779398	-32.43092291	14:31:55	3073.944
7246					field	761004.667	6408404.944	760875.569	6408234.012	2/03/2008	12.735	137.7758586	-32.43093108	14:36:22	3074.093
7247					field	760800.953	6408400.329	760671.855	6408229.396	2/03/2008	16.193	137.7736955	-32.43102038	14:40:50	3073.166
7248					field	760600.963	6408401.563	760471.866	6408230.631	2/03/2008	18.206	137.7715704	-32.43105606	14:46:20	3072.686
7249					field	760401.373	6408401.451	760272.277	6408230.519	2/03/2008	14.483	137.7694498	-32.43110374	14:52:11	3073.602
7250					field	760203.874	6408399.17	760074.778	6408228.238	2/03/2008	10.49	137.7673521	-32.43117044	14:57:01	3074.876
7251					field	760200.373	6408609.588	760071.276	6408438.655	2/03/2008	11.066	137.767257	-32.42927526	15:04:50	3074.465
7252					field	760407.324	6408609.263	760278.228	6408438.331	2/03/2008	14.142	137.7694558	-32.42922983	15:10:41	3073.403
7253					field	760608.079	6408598.288	760478.982	6408427.356	2/03/2008	17.501	137.7715917	-32.42928178	15:16:31	3072.248
7254					field	760803.221	6408600.303	760674.124	6408429.37	2/03/2008	14.126	137.7736644	-32.42921796	15:22:50	3073.221
7255					field	761009.905	6408608.467	760880.807	6408437.534	2/03/2008	13.447	137.775858	-32.42909599	15:27:48	3073.629
7256					field	761212.919	6408606.333	761083.821	6408435.4	2/03/2008	12.314	137.7780155	-32.42906764	15:33:00	3073.792
7257					field	761409.518	6408603.072	761280.42	6408432.139	2/03/2008	15.784	137.7801051	-32.42905091	15:39:12	3072.935
7258					field	761602.268	6408600.18	761473.168	6408429.246	2/03/2008	12.183	137.7821538	-32.42903173	15:43:08	3073.775
7259					field	761801.523	6408600.664	761672.424	6408429.73	2/03/2008	9.748	137.7842706	-32.42898056	15:51:14	3074.458
7240	-0.003	-0.002	0	0.014	repeat	761996.313	6408602.912	761867.212	6408431.979	2/03/2008	12.677	137.7863394	-32.42891451	15:57:17	3073.76
89					base	762167.137	6408108.295	762038.037	6407937.363	2/03/2008	22.043	137.7882916	-32.43333106	16:19:07	3072.181
-89					base	762167.137	6408108.295	762038.034	6407937.391	2/03/2008	22.043	137.7882915	-32.43333081	16:20:18	3072.184
-89					base	762167.137	6408108.295	762038.034	6407937.391	3/03/2008	22.043	137.7882915	-32.43333081	6:56:33	3072.453
89					base	762167.137	6408108.295	762038.037	6407937.363	3/03/2008	22.043	137.7882916	-32.43333106	6:57:44	3072.457
7260					field	762002.171	6408199.923	761873.071	6408028.99	3/03/2008	15.292	137.7865134	-32.43254427	7:44:05	3073.947
7261					field	762200.697	6408201.769	762071.597	6408030.836	3/03/2008	19.401	137.7886222	-32.43248092	7:50:15	3072.869
7262					field	762402.291	6408197.307	762273.19	6408026.374	3/03/2008	20.216	137.7907653	-32.43247366	7:56:02	3072.446
7263					field	762602.657	6408202.054	762473.555	6408031.121	3/03/2008	17.935	137.7928928	-32.43238367	8:01:48	3072.89

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station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7264					field	762797.785	6408199.474	762668.683	6408028.541	3/03/2008	21.365	137.7949666	-32.4323609	8:07:32	3072.236
7265					field	762804.803	6408401.586	762675.701	6408230.653	3/03/2008	18.11	137.794985	-32.43053812	8:13:16	3072.577
7266					field	762801.795	6408600.794	762672.693	6408429.861	3/03/2008	15.185	137.7948976	-32.42874388	8:18:53	3072.918
7267					field	763000.964	6408600.959	762871.862	6408430.025	3/03/2008	15.292	137.7970135	-32.4286954	8:23:45	3073.056
7268					field	763001.44	6408401.107	762872.337	6408230.173	3/03/2008	15.573	137.7970742	-32.43049604	8:30:14	3073.262
7269					field	762999.32	6408201.787	762870.217	6408030.854	3/03/2008	14.174	137.7971072	-32.43229249	8:35:27	3073.967
7270					field	763000.552	6407999.44	762871.449	6407828.507	3/03/2008	14.404	137.7971766	-32.43411543	8:41:03	3074.248
7271					field	762801.057	6407998.214	762671.955	6407827.282	3/03/2008	15.248	137.7950574	-32.43417356	8:47:34	3074.096
7272					field	762603.912	6408000.467	762474.811	6407829.535	3/03/2008	20.943	137.7929621	-32.43419976	8:52:49	3072.615
7273					field	762405.617	6407997.313	762276.515	6407826.381	3/03/2008	18.867	137.7908562	-32.43427491	8:58:24	3072.994
7274					field	762203.257	6408002.554	762074.156	6407831.622	3/03/2008	19.911	137.7887047	-32.43427534	9:04:38	3072.983
7260	0.014	0.012	-0.005	0.004	repeat	762002.201	6408199.941	761873.101	6408029.008	3/03/2008	15.282	137.7865137	-32.4325441	9:13:37	3073.951
7275					field	761804.186	6408203.178	761675.086	6408032.245	3/03/2008	11.54	137.784409	-32.43256149	9:34:55	3074.901
7276					field	761600.986	6408200.955	761471.887	6408030.022	3/03/2008	10.67	137.7822507	-32.43262926	9:41:48	3075.212
7277					field	761400.712	6408197.591	761271.613	6408026.659	3/03/2008	10.327	137.7801238	-32.43270658	9:46:44	3075.311
7278					field	761199.565	6408199.864	761070.467	6408028.931	3/03/2008	12.34	137.777986	-32.43273329	9:53:08	3074.76
7279					field	761000.7	6408199.913	760871.601	6408028.981	3/03/2008	13.314	137.7758731	-32.43277946	9:58:35	3074.645
7280					field	760802.391	6408201.448	760673.293	6408030.517	3/03/2008	14.523	137.7737657	-32.43281207	10:04:41	3074.428
7281					field	760601.01	6408201.253	760471.913	6408030.321	3/03/2008	14.208	137.7716261	-32.43286096	10:10:53	3074.518
7282					field	760404.908	6408199.426	760275.811	6408028.494	3/03/2008	9.783	137.7695431	-32.43292329	10:16:10	3075.407
7283					field	760197.777	6408201.754	760068.681	6408030.822	3/03/2008	7.21	137.7673417	-32.43295071	10:24:38	3076.203
7284					field	760204.005	6407998.102	760074.908	6407827.171	3/03/2008	9.616	137.767464	-32.43478429	10:31:13	3075.97
7285					field	760402.46	6407999.777	760273.363	6407828.846	3/03/2008	8.726	137.7695721	-32.43472282	10:37:53	3075.866
7286					field	760601.014	6408000.479	760471.917	6407829.547	3/03/2008	13.461	137.7716816	-32.43467006	10:43:53	3075.019
7287					field	760801.857	6407999.103	760672.759	6407828.171	3/03/2008	14.221	137.7738159	-32.43463545	10:50:11	3074.692
7288					field	761001.117	6408002.01	760872.018	6407831.078	3/03/2008	12.873	137.7759322	-32.43456258	10:56:13	3074.9
7289					field	761201.609	6408001.437	761072.51	6407830.506	3/03/2008	11.011	137.7780626	-32.43452074	11:03:15	3075.338
7290					field	761400.278	6408000.523	761271.179	6407829.591	3/03/2008	10.786	137.7801737	-32.43448237	11:08:48	3075.475
7291					field	761602.846	6408001.304	761473.747	6407830.372	3/03/2008	13.548	137.7823257	-32.43442778	11:14:14	3074.792
7292					field	761802.779	6407998.431	761673.679	6407827.499	3/03/2008	15.46	137.7844508	-32.43440669	11:26:38	3074.34
7293					field	762002.073	6407999.712	761872.972	6407828.78	3/03/2008	17.732	137.7865679	-32.43434829	11:32:51	3073.75
7260	0.001	-0.005	0.001	0.008	repeat	762002.188	6408199.924	761873.088	6408028.992	3/03/2008	15.288	137.7865136	-32.43254425	11:39:06	3073.998
7294					field	761995.11	6407805.789	761866.009	6407634.857	3/03/2008	17.083	137.7865477	-32.43609727	13:28:02	3074.274
7295					field	761800.706	6407802.327	761671.606	6407631.396	3/03/2008	21.046	137.7844831	-32.43617417	13:33:20	3073.507
7296					field	761595.842	6407801.963	761466.743	6407631.032	3/03/2008	16.708	137.7823065	-32.43622559	13:40:27	3074.379
7297					field	761403.588	6407797.124	761274.489	6407626.193	3/03/2008	12.508	137.7802652	-32.43631433	13:45:14	3075.367
7298					field	761200.75	6407807.353	761071.651	6407636.422	3/03/2008	14.762	137.7781071	-32.43626975	13:51:43	3074.741
7299					field	760996.097	6407811.435	760866.999	6407640.503	3/03/2008	11.865	137.7759315	-32.43628095	13:57:06	3075.533

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7300					field	760800.852	6407804.219	760671.755	6407633.288	3/03/2008	12.442	137.773859	-32.4363917	14:01:40	3075.337
7301					field	760595.732	6407796.863	760466.634	6407625.932	3/03/2008	12.05	137.7716816	-32.436506	14:08:41	3075.588
7302					field	760404	6407793.354	760274.903	6407622.423	3/03/2008	6.743	137.7696454	-32.43658246	14:13:22	3076.82
7303					field	760201.174	6407798.507	760072.077	6407627.576	3/03/2008	3.231	137.7674889	-32.43658343	14:19:57	3077.87
7304					field	760203.744	6407606.667	760074.647	6407435.736	3/03/2008	2.405	137.767569	-32.43831143	14:37:51	3078.375
7305					field	760409.781	6407607.312	760280.684	6407436.381	3/03/2008	7.004	137.7697581	-32.43825746	14:45:15	3076.999
7306					field	760610.407	6407603.529	760481.309	6407432.598	3/03/2008	9.285	137.7718909	-32.43824462	14:51:24	3076.328
7307					field	760813.924	6407601.105	760684.826	6407430.174	3/03/2008	12.887	137.774054	-32.43821882	14:57:42	3075.541
7308					field	761004.425	6407595.966	760875.327	6407425.035	3/03/2008	11.111	137.7760796	-32.43822049	15:03:18	3076.132
7309					field	761209.253	6407610.509	761080.154	6407439.578	3/03/2008	13.885	137.7782519	-32.43804143	15:09:58	3075.355
7310					field	761409.512	6407604.904	761280.412	6407433.973	3/03/2008	14.708	137.7803813	-32.43804495	15:14:52	3075.191
7311					field	761601.173	6407598.286	761472.073	6407427.355	3/03/2008	15.665	137.7824196	-32.43805957	15:20:27	3074.919
7312					field	761799.995	6407598.259	761670.895	6407427.328	3/03/2008	15.554	137.7845321	-32.4380131	15:26:37	3075.077
7313					field	762000.737	6407597.733	761871.636	6407426.802	3/03/2008	15.405	137.7866652	-32.43797063	15:31:03	3074.999
7294	-0.001	0.001	0	0.016	repeat	761995.109	6407805.79	761866.008	6407634.858	3/03/2008	17.083	137.7865477	-32.43609726	15:38:27	3074.423
7314					field	762203.839	6407801.538	762074.738	6407630.607	3/03/2008	17.09	137.7887667	-32.43608645	16:12:59	3074.151
7315					field	762405.109	6407799.95	762276.007	6407629.018	3/03/2008	17.212	137.7909056	-32.43605336	16:23:30	3074.041
7316					field	762600.728	6407801.599	762471.626	6407630.667	3/03/2008	14.292	137.7929836	-32.4359924	16:28:49	3074.894
7317					field	762804.25	6407800.5	762675.147	6407629.568	3/03/2008	16.895	137.7951463	-32.4359543	16:33:10	3074.31
7318					field	763001.919	6407802.156	762872.817	6407631.223	3/03/2008	15.139	137.7972461	-32.43589272	16:38:37	3074.634
7319					field	763003.385	6407600.198	762874.282	6407429.267	3/03/2008	15.597	137.7973179	-32.43771209	16:43:11	3074.738
7320					field	762796.132	6407605.925	762667.03	6407434.994	3/03/2008	13.994	137.7951142	-32.43770941	16:48:07	3075.229
7321					field	762601.12	6407602.913	762472.018	6407431.982	3/03/2008	13.754	137.793043	-32.43778255	16:54:28	3075.322
7322					field	762402.926	6407604.258	762273.825	6407433.326	3/03/2008	15.506	137.7909368	-32.43781715	16:58:49	3074.886
7323					field	762201.146	6407602.025	762072.045	6407431.094	3/03/2008	18.763	137.7887934	-32.43788479	17:03:46	3074.017
7314	0.001	0.001	0.006	-0.008	repeat	762203.84	6407801.539	762074.739	6407630.608	3/03/2008	17.096	137.7887667	-32.43608644	17:08:50	3074.185
89					base	762167.137	6408108.295	762038.037	6407937.363	3/03/2008	22.043	137.7882916	-32.43333106	17:22:48	3072.78
-89					base	762167.137	6408108.295	762038.034	6407937.391	3/03/2008	22.043	137.7882915	-32.43333081	17:23:59	3072.781
-89					base	762167.137	6408108.295	762038.034	6407937.391	4/03/2008	22.043	137.7882915	-32.43333081	7:08:37	3072.987
89					base	762167.137	6408108.295	762038.037	6407937.363	4/03/2008	22.043	137.7882916	-32.43333106	7:09:48	3072.993
7324					field	762004.831	6407398.345	761875.73	6407227.414	4/03/2008	14.078	137.786764	-32.43976625	7:48:31	3075.765
7325					field	761801.597	6407401.402	761672.497	6407230.471	4/03/2008	13.407	137.7846037	-32.4397865	7:53:09	3076.077
7326					field	761606.001	6407399.53	761476.901	6407228.6	4/03/2008	13.123	137.7825259	-32.43984933	7:58:08	3076.055
7327					field	761400.129	6407398.636	761271.03	6407227.706	4/03/2008	10.58	137.7803387	-32.43990573	8:02:31	3076.81
7328					field	761200.053	6407402.349	761070.954	6407231.419	4/03/2008	10.903	137.7782117	-32.43991922	8:06:27	3076.71
7329					field	760997.015	6407400.076	760867.916	6407229.145	4/03/2008	11.954	137.776055	-32.43998731	8:11:19	3076.539
7330					field	760802.838	6407402.891	760673.74	6407231.96	4/03/2008	12.014	137.7739909	-32.44000744	8:15:23	3076.36
7331					field	760601.071	6407401.88	760471.973	6407230.95	4/03/2008	10.126	137.7718473	-32.44006378	8:19:30	3076.513

EL 3504 - GRAVITY DATA

station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7332					field	760402.371	6407397.506	760273.274	6407226.576	4/03/2008	4.313	137.7697372	-32.44014967	8:23:34	3078.175
7333					field	760200.799	6407402.948	760071.702	6407232.018	4/03/2008	1.635	137.7675939	-32.44014775	8:30:19	3079.177
7334					field	760202.017	6407201.065	760072.92	6407030.136	4/03/2008	1.56	137.7676624	-32.44196656	8:36:42	3079.454
7335					field	760405.408	6407203.152	760276.31	6407032.222	4/03/2008	3.847	137.7698231	-32.44190021	8:41:39	3078.477
7336					field	760607.371	6407200.083	760478.273	6407029.153	4/03/2008	7.359	137.77197	-32.44188062	8:46:24	3077.518
7337					field	760800.408	6407200.833	760671.31	6407029.904	4/03/2008	9.988	137.7740209	-32.44182866	8:50:33	3077.102
7338					field	761001.678	6407200.33	760872.58	6407029.4	4/03/2008	7.026	137.7761597	-32.44178604	8:54:51	3077.98
7339					field	761196.332	6407207.198	761067.233	6407036.268	4/03/2008	8.076	137.7782262	-32.44167851	8:59:14	3077.637
7340					field	761401.551	6407203.254	761272.451	6407032.324	4/03/2008	9.326	137.7804079	-32.44166589	9:04:40	3077.247
7341					field	761601.266	6407202.097	761472.166	6407031.167	4/03/2008	11.208	137.7825303	-32.44162942	9:10:16	3076.784
7342					field	761800.963	6407205.242	761671.863	6407034.312	4/03/2008	16.104	137.7846514	-32.44155415	9:16:45	3075.575
7343					field	762004.895	6407202.967	761875.794	6407032.037	4/03/2008	13.936	137.7868189	-32.44152668	9:24:25	3076.032
7324	-0.004	-0.005	-0.004	0	repeat	762004.827	6407398.34	761875.726	6407227.41	4/03/2008	14.074	137.786764	-32.43976629	9:30:29	3075.73
7344					field	762202.84	6407404.553	762073.738	6407233.622	4/03/2008	16.514	137.7888663	-32.43966371	9:59:32	3075.013
7345					field	762402.832	6407401.628	762273.73	6407230.697	4/03/2008	13.674	137.7909921	-32.43964296	10:03:34	3075.743
7346					field	762605.149	6407401.959	762476.047	6407231.028	4/03/2008	12.775	137.7931417	-32.43959228	10:09:06	3075.914
7347					field	762803.193	6407397.805	762674.091	6407226.873	4/03/2008	13.414	137.7952471	-32.439583	10:13:19	3075.69
7348					field	762800.213	6407197.23	762671.11	6407026.3	4/03/2008	12.685	137.7952713	-32.44139096	10:30:44	3076.019
7349					field	762599.575	6407203.068	762470.473	6407032.138	4/03/2008	12.827	137.7931378	-32.44138569	10:35:36	3076.109
7350					field	762398.354	6407202.625	762269.252	6407031.694	4/03/2008	13.942	137.7909998	-32.44143712	10:40:02	3075.882
7351					field	762199.971	6407204.235	762070.87	6407033.305	4/03/2008	15.491	137.7888914	-32.44146934	10:44:08	3075.513
7344	0.002	0.002	0.007	0.001	repeat	762202.842	6407404.555	762073.74	6407233.624	4/03/2008	16.521	137.7888663	-32.43966369	10:51:02	3075.014
7352					field	762003.606	6406799.111	761874.505	6406628.182	4/03/2008	10.625	137.7869173	-32.44516592	12:25:31	3077.263
7353					field	762002.964	6407000.692	761873.863	6406829.762	4/03/2008	15.583	137.7868545	-32.44334973	13:00:31	3075.917
7354					field	761796.088	6407009.782	761666.988	6406838.853	4/03/2008	14.727	137.7846538	-32.44331648	13:06:18	3076.2
7355					field	761605.248	6406998.745	761476.147	6406827.815	4/03/2008	10.359	137.782629	-32.44346079	13:11:37	3077.38
7356					field	761397.983	6407001.02	761268.884	6406830.09	4/03/2008	7.253	137.780426	-32.44348897	13:32:59	3078.079
7357					field	761204.448	6406999.446	761075.349	6406828.516	4/03/2008	5.805	137.7783699	-32.44354857	13:38:49	3078.569
7358					field	761000.902	6407000.062	760871.803	6406829.132	4/03/2008	7.097	137.7762068	-32.44359075	13:43:05	3078.285
7359					field	760803.479	6406998.837	760674.38	6406827.908	4/03/2008	8.284	137.7741094	-32.44364804	13:47:38	3077.958
7360					field	760600.281	6406999.675	760471.183	6406828.746	4/03/2008	4.215	137.7719499	-32.44368807	13:52:46	3078.826
7361					field	760400.127	6407001.959	760271.029	6406831.029	4/03/2008	3.685	137.7698224	-32.44371432	13:57:38	3078.912
7362					field	760202.058	6407001.674	760072.961	6406830.745	4/03/2008	1.744	137.7677178	-32.44376319	14:03:55	3079.728
7363					field	760202.03	6406799.966	760072.932	6406629.037	4/03/2008	1.598	137.7677731	-32.44558071	14:09:56	3079.803
7364					field	760402.728	6406799.41	760273.63	6406628.481	4/03/2008	1.989	137.769906	-32.4455388	14:15:17	3079.747
7365					field	760603.057	6406800.84	760473.959	6406629.911	4/03/2008	3.83	137.7720343	-32.44547904	14:19:44	3079.383
7366					field	760803.203	6406800.025	760674.104	6406629.096	4/03/2008	5.144	137.7741613	-32.44543952	14:27:33	3078.99
7367					field	761002.345	6406800.248	760873.246	6406629.319	4/03/2008	3.731	137.7762774	-32.44539084	14:31:42	3079.476

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station	dX	dY	dZ	dObsG	Type	mga_easting	mga_northing	amg_easting	amg_northing	date_ddmmyyyy	ahd_m	gda94_longitude_dd	gda94_latitude_dd	time_hhmmss	dialrdng_mgals
7368					field	761202.461	6406799.896	761073.361	6406628.967	4/03/2008	2.507	137.778404	-32.44534708	14:37:08	3079.766
7369					field	761402.247	6406800.638	761273.147	6406629.709	4/03/2008	4.465	137.7805267	-32.44529351	14:41:37	3079.145
7370					field	761606.947	6406801.291	761477.847	6406630.362	4/03/2008	8.479	137.7827017	-32.44523955	14:47:44	3078.139
7371					field	761801.37	6406799.863	761672.269	6406628.933	4/03/2008	11.436	137.7847681	-32.44520672	14:53:08	3077.374
7352	0.001	0.001	-0.016	0.009	repeat	762003.607	6406799.112	761874.506	6406628.183	4/03/2008	10.609	137.7869173	-32.44516591	14:58:12	3077.425
89					base	762167.137	6408108.295	762038.037	6407937.363	4/03/2008	22.043	137.7882916	-32.43333106	16:14:35	3073.204
-89					base	762167.137	6408108.295	762038.034	6407937.391	4/03/2008	22.043	137.7882915	-32.43333081	16:15:46	3073.21
-89					base	762167.137	6408108.295	762038.034	6407937.391	5/03/2008	22.043	137.7882915	-32.43333081	7:24:48	3073.512
89					base	762167.137	6408108.295	762038.037	6407937.363	5/03/2008	22.043	137.7882916	-32.43333106	7:25:59	3073.515
7372					field	762202.418	6406999.469	762073.317	6406828.539	5/03/2008	15.162	137.7889743	-32.4433138	11:23:29	3076.34
7373					field	762401.928	6407002.812	762272.826	6406831.882	5/03/2008	18.912	137.7910933	-32.44323668	11:40:03	3075.415
7374					field	762601.499	6407001.363	762472.397	6406830.433	5/03/2008	13.114	137.7932143	-32.44320269	11:47:31	3076.82
7375					field	762801.182	6407001.084	762672.079	6406830.154	5/03/2008	13.259	137.7953362	-32.44315809	11:54:09	3076.587
7376					field	762795.976	6406796.952	762666.873	6406626.022	5/03/2008	13.734	137.7953377	-32.44499863	12:04:48	3076.772
7377					field	762603.075	6406798.405	762473.972	6406627.476	5/03/2008	16.911	137.7932875	-32.44503105	12:27:08	3076.153
7378					field	762399.086	6406800.589	762269.984	6406629.659	5/03/2008	13.064	137.7911193	-32.44505947	12:35:11	3077.135
7379					field	762200.339	6406806.949	762071.237	6406636.02	5/03/2008	15.115	137.7890056	-32.44504898	12:42:29	3076.626
7372	-0.004	-0.007	0	0.011	repeat	762202.414	6406999.462	762073.313	6406828.533	5/03/2008	15.162	137.7889742	-32.44331386	12:49:18	3076.382
7380					field	763002.652	6407399.29	762873.549	6407228.359	5/03/2008	14.283	137.797366	-32.43952253	14:26:44	3076.016
7381					field	763002.84	6407204.619	762873.736	6407033.688	5/03/2008	13.524	137.7974223	-32.44127655	14:32:58	3076.412
7382					field	763001.658	6407000.38	762872.555	6406829.45	5/03/2008	13.158	137.7974666	-32.4431171	14:39:28	3076.736
7383					field	762998.727	6406803.2	762869.623	6406632.27	5/03/2008	13.565	137.7974904	-32.44489446	14:46:30	3076.805
7384					field	762201.535	6408600.414	762072.435	6408429.48	5/03/2008	12.064	137.7885205	-32.42888874	15:24:46	3075.236
7385					field	762402.379	6408602.492	762273.278	6408431.558	5/03/2008	12.813	137.7906537	-32.42882273	15:31:11	3074.989
7386					field	762603.484	6408602.563	762474.382	6408431.629	5/03/2008	14.01	137.7927902	-32.42877471	15:37:22	3074.425
7387					field	762602.929	6408400.28	762473.828	6408229.347	5/03/2008	20.08	137.7928406	-32.4305975	15:44:21	3073.328
7388					field	762401.97	6408401.497	762272.869	6408230.564	5/03/2008	16.04	137.7907052	-32.43063388	15:52:25	3074.47
7389					field	762200.31	6408399.496	762071.209	6408228.563	5/03/2008	15.558	137.7885632	-32.4306994	16:00:36	3074.742
7197	0.003	0.005	0.007	0.013	repeat	762400.235	6409408.291	762271.135	6409237.355	5/03/2008	13.036	137.7904072	-32.42156261	16:33:03	3073.774
7298	-0.018	-0.004	0.003	0.029	repeat	761200.732	6407807.349	761071.633	6407636.418	5/03/2008	14.765	137.7781069	-32.43626979	17:28:51	3075.934
7063	-0.001	-0.012	0.002	-0.013	repeat	762403.311	6411004.105	762274.211	6410833.166	5/03/2008	12.801	137.789997	-32.40718281	18:29:43	3071.971
7045	0	0.011	-0.006	0.004	repeat	762601.776	6411400.068	762472.676	6411229.128	5/03/2008	16.239	137.7919951	-32.40356827	18:38:51	3070.603
89					base	762167.137	6408108.295	762038.037	6407937.363	5/03/2008	22.043	137.7882916	-32.43333106	19:08:52	3073.805
-89					base	762167.137	6408108.295	762038.034	6407937.391	5/03/2008	22.043	137.7882915	-32.43333081	19:10:03	3073.806

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station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
-89	-0.002	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.173	40291	1.000018	53	-89
89	-0.002	979488.412	9794884.12	9795187.924	-235.78	-23.578	-260.437	-257.942	-256.095	-26.044	-25.794	-25.609	0.173	40291	1.000018	53	-89
7000	-0.012	979487.108	9794871.08	9795162.488	-275.04	-27.504	-280.968	-280.368	-279.923	-28.097	-28.037	-27.992	0.173	40291	1.000018	53	-89
7001	-0.011	979487.469	9794874.69	9795162.507	-270.17	-27.017	-276.563	-275.916	-275.436	-27.656	-27.592	-27.544	0.173	40291	1.000018	53	-89
7002	-0.01	979486.568	9794865.68	9795162.476	-263.84	-26.384	-275.784	-274.575	-273.68	-27.578	-27.458	-27.368	0.173	40291	1.000018	53	-89
7003	-0.009	979486.106	9794861.06	9795162.584	-260.73	-26.073	-275.513	-274.017	-272.909	-27.551	-27.402	-27.291	0.173	40291	1.000018	53	-89
7004	-0.008	979486.255	9794862.55	9795161.138	-265.07	-26.507	-277.214	-275.984	-275.074	-27.721	-27.598	-27.507	0.173	40291	1.000018	53	-89
7005	-0.008	979485.467	9794854.67	9795161.057	-263.63	-26.363	-279.121	-277.553	-276.391	-27.912	-27.755	-27.639	0.173	40291	1.000018	53	-89
7006	-0.007	979485.884	9794858.84	9795161.005	-267.54	-26.754	-280.088	-278.819	-277.878	-28.009	-27.882	-27.788	0.173	40291	1.000018	53	-89
7007	-0.006	979485.152	9794851.52	9795160.918	-270.78	-27.078	-284.776	-283.359	-282.31	-28.478	-28.336	-28.231	0.173	40291	1.000018	53	-89
7008	-0.005	979485.469	9794854.69	9795160.866	-272.02	-27.202	-284.395	-283.142	-282.215	-28.44	-28.314	-28.221	0.173	40291	1.000018	53	-89
7009	-0.004	979486.516	9794865.16	9795160.941	-276.78	-27.678	-283.666	-282.969	-282.453	-28.367	-28.297	-28.245	0.173	40291	1.000018	53	-89
7010	-0.003	979485.424	9794854.24	9795160.868	-271.26	-27.126	-284.076	-282.779	-281.818	-28.408	-28.278	-28.182	0.173	40291	1.000018	53	-89
7011	-0.002	979484.078	9794840.78	9795160.818	-268.08	-26.808	-286.911	-285.005	-283.594	-28.691	-28.501	-28.359	0.173	40291	1.000018	53	-89
7012	-0.001	979483.786	9794837.86	9795160.83	-266.09	-26.609	-286.709	-284.624	-283.079	-28.671	-28.462	-28.308	0.173	40291	1.000018	53	-89
7013	0	979484.795	9794847.95	9795160.725	-266.63	-26.663	-283.349	-281.656	-280.403	-28.335	-28.166	-28.04	0.173	40291	1.000018	53	-89
7014	0.001	979483.424	9794834.24	9795160.719	-261.28	-26.128	-284.908	-282.517	-280.746	-28.491	-28.252	-28.075	0.173	40291	1.000018	53	-89
7015	0.002	979483.325	9794833.25	9795160.66	-260.85	-26.085	-284.976	-282.535	-280.727	-28.498	-28.254	-28.073	0.173	40291	1.000018	53	-89
7016	0.003	979484.328	9794843.28	9795160.635	-262.09	-26.209	-282.119	-280.092	-278.591	-28.212	-28.009	-27.859	0.173	40291	1.000018	53	-89
7017	0.004	979484.036	9794840.36	9795160.58	-259.69	-25.969	-281.626	-279.406	-277.762	-28.163	-27.941	-27.776	0.173	40291	1.000018	53	-89
7018	0.004	979484.573	9794845.73	9795160.589	-261.42	-26.142	-280.788	-278.828	-277.377	-28.079	-27.883	-27.738	0.173	40291	1.000018	53	-89
7019	0.005	979485.127	9794851.27	9795162.052	-260.8	-26.08	-278.916	-277.084	-275.726	-27.892	-27.708	-27.573	0.173	40291	1.000018	53	-89
7020	0.006	979485.058	9794850.58	9795162.064	-261.64	-26.164	-279.702	-277.875	-276.52	-27.97	-27.787	-27.652	0.173	40291	1.000018	53	-89
7021	0.007	979484.974	9794849.74	9795162.122	-262.25	-26.225	-280.414	-278.575	-277.213	-28.041	-27.858	-27.721	0.173	40291	1.000018	53	-89
7022	0.007	979485.071	9794850.71	9795162.113	-262.94	-26.294	-280.507	-278.73	-277.413	-28.051	-27.873	-27.741	0.173	40291	1.000018	53	-89
7023	0.008	979485.586	9794855.86	9795162.142	-265.01	-26.501	-279.966	-278.453	-277.331	-27.997	-27.845	-27.733	0.173	40291	1.000018	53	-89
7024	0.008	979486.093	9794860.93	9795162.236	-267.28	-26.728	-279.614	-278.366	-277.442	-27.961	-27.837	-27.744	0.173	40291	1.000018	53	-89
7025	0.008	979485.677	9794856.77	9795162.298	-268.76	-26.876	-282.087	-280.738	-279.74	-28.209	-28.074	-27.974	0.173	40291	1.000018	53	-89
7026	0.008	979484.284	9794842.84	9795162.295	-265.68	-26.568	-285.169	-283.197	-281.737	-28.517	-28.32	-28.174	0.173	40291	1.000018	53	-89
7027	0.007	979485.1	9794851	9795162.348	-267.38	-26.738	-283.309	-281.696	-280.502	-28.331	-28.17	-28.05	0.173	40291	1.000018	53	-89
7028	0.007	979486.171	9794861.71	9795162.34	-273.15	-27.315	-283.107	-282.099	-281.352	-28.311	-28.21	-28.135	0.173	40291	1.000018	53	-89
7029	0.006	979486.846	9794868.46	9795162.416	-272.51	-27.251	-280.283	-279.496	-278.914	-28.028	-27.95	-27.891	0.173	40291	1.000018	53	-89
7000	0.006	979487.102	9794871.02	9795162.488	-275.14	-27.514	-281.054	-280.455	-280.012	-28.105	-28.046	-28.001	0.173	40291	1.000018	53	-89
89	0.004	979488.418	9794884.18	9795187.924	-235.73	-23.573	-260.377	-257.882	-256.035	-26.038	-25.788	-25.603	0.173	40291	1.000018	53	-89
-89	0.003	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.173	40291	1.000018	53	-89
-89	0.071	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.198	40291	1.000018	53	-89
89	0.071	979488.413	9794884.13	9795187.924	-235.77	-23.577	-260.427	-257.932	-256.085	-26.043	-25.793	-25.608	0.198	40291	1.000018	53	-89
7030	0.061	979487.796	9794877.96	9795163.894	-273.76	-27.376	-278.173	-277.726	-277.396	-27.817	-27.773	-27.74	0.198	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7031	0.058	979488.069	9794880.69	9795163.937	-276.14	-27.614	-278.708	-278.447	-278.254	-27.871	-27.845	-27.825	0.198	40291	1.000018	53	-89
7032	0.055	979488.531	9794885.31	9795163.985	-270.96	-27.096	-273.752	-273.469	-273.26	-27.375	-27.347	-27.326	0.198	40291	1.000018	53	-89
7033	0.053	979486.862	9794868.62	9795163.986	-262.19	-26.219	-274.212	-272.995	-272.094	-27.421	-27.3	-27.209	0.198	40291	1.000018	53	-89
7034	0.051	979486.123	9794861.23	9795164.039	-258.36	-25.836	-274.468	-272.838	-271.631	-27.447	-27.284	-27.163	0.198	40291	1.000018	53	-89
7035	0.049	979485.04	9794850.4	9795165.524	-252.32	-25.232	-275.08	-272.777	-271.071	-27.508	-27.278	-27.107	0.198	40291	1.000018	53	-89
7036	0.047	979486.157	9794861.57	9795165.462	-257.72	-25.772	-274.454	-272.761	-271.507	-27.445	-27.276	-27.151	0.198	40291	1.000018	53	-89
7037	0.044	979487.63	9794876.3	9795165.439	-266.75	-26.675	-274.86	-274.039	-273.43	-27.486	-27.404	-27.343	0.198	40291	1.000018	53	-89
7030	0.037	979487.782	9794877.82	9795163.894	-274.03	-27.403	-278.393	-277.952	-277.624	-27.839	-27.795	-27.762	0.198	40291	1.000018	53	-89
7038	0.033	979486.698	9794866.98	9795163.839	-272.19	-27.219	-281.124	-280.219	-279.549	-28.112	-28.022	-27.955	0.198	40291	1.000018	53	-89
7039	0.031	979485.818	9794858.18	9795163.823	-267.48	-26.748	-281.31	-279.91	-278.874	-28.131	-27.991	-27.887	0.198	40291	1.000018	53	-89
7040	0.029	979485.136	9794851.36	9795163.781	-266.43	-26.643	-283.093	-281.406	-280.156	-28.309	-28.141	-28.016	0.198	40291	1.000018	53	-89
7041	0.028	979486.043	9794860.43	9795163.75	-266.83	-26.683	-280.05	-278.711	-277.72	-28.005	-27.871	-27.772	0.198	40291	1.000018	53	-89
7042	0.027	979486.415	9794864.15	9795163.707	-265.81	-26.581	-278.042	-276.804	-275.888	-27.804	-27.68	-27.589	0.198	40291	1.000018	53	-89
7043	0.026	979485.923	9794859.23	9795163.658	-262.43	-26.243	-277.652	-276.112	-274.971	-27.765	-27.611	-27.497	0.198	40291	1.000018	53	-89
7044	0.024	979485.56	9794855.6	9795163.622	-261.82	-26.182	-278.562	-276.868	-275.612	-27.856	-27.687	-27.561	0.198	40291	1.000018	53	-89
7045	0.023	979485.214	9794852.14	9795163.588	-261.32	-26.132	-279.487	-277.649	-276.287	-27.949	-27.765	-27.629	0.198	40291	1.000018	53	-89
7046	0.022	979485.763	9794857.63	9795163.532	-261.41	-26.141	-277.532	-275.9	-274.691	-27.753	-27.59	-27.469	0.198	40291	1.000018	53	-89
7047	0.02	979485.859	9794858.59	9795163.502	-261.17	-26.117	-277.02	-275.416	-274.228	-27.702	-27.542	-27.423	0.198	40291	1.000018	53	-89
7048	0.019	979486.218	9794862.18	9795164.982	-261.55	-26.155	-276.5	-274.987	-273.867	-27.65	-27.499	-27.387	0.198	40291	1.000018	53	-89
7049	0.018	979486.317	9794863.17	9795165.008	-261.12	-26.112	-275.88	-274.387	-273.281	-27.588	-27.439	-27.328	0.198	40291	1.000018	53	-89
7050	0.017	979486.444	9794864.44	9795165.054	-262.61	-26.261	-276.382	-274.988	-273.956	-27.638	-27.499	-27.396	0.198	40291	1.000018	53	-89
7051	0.015	979486.576	9794865.76	9795165.095	-262.47	-26.247	-275.829	-274.477	-273.475	-27.583	-27.448	-27.348	0.198	40291	1.000018	53	-89
7043	0.013	979485.93	9794859.3	9795163.658	-262.39	-26.239	-277.596	-276.057	-274.916	-27.76	-27.606	-27.492	0.198	40291	1.000018	53	-89
7052	0.012	979486.853	9794868.53	9795165.139	-263.09	-26.309	-275.239	-274.01	-273.1	-27.524	-27.401	-27.31	0.198	40291	1.000018	53	-89
7053	0.011	979486.78	9794867.8	9795165.177	-263.9	-26.39	-276.032	-274.805	-273.895	-27.603	-27.48	-27.39	0.198	40291	1.000018	53	-89
7054	0.01	979486.364	9794863.64	9795165.209	-265.27	-26.527	-278.427	-277.096	-276.11	-27.843	-27.71	-27.611	0.198	40291	1.000018	53	-89
7055	0.009	979485.581	9794855.81	9795165.257	-265.89	-26.589	-281.673	-280.076	-278.893	-28.167	-28.008	-27.889	0.198	40291	1.000018	53	-89
7056	0.007	979485.387	9794853.87	9795165.279	-263.29	-26.329	-280.732	-278.967	-277.66	-28.073	-27.897	-27.766	0.198	40291	1.000018	53	-89
7057	0.006	979487.191	9794871.91	9795165.324	-269.92	-26.992	-278.438	-277.577	-276.939	-27.844	-27.758	-27.694	0.198	40291	1.000018	53	-89
7030	0.005	979487.787	9794877.87	9795163.894	-273.88	-27.388	-278.284	-277.839	-277.509	-27.828	-27.784	-27.751	0.198	40291	1.000018	53	-89
7058	-0.004	979485.936	9794859.36	9795166.768	-262.27	-26.227	-278.631	-276.975	-275.749	-27.863	-27.698	-27.575	0.198	40291	1.000018	53	-89
7059	-0.005	979485.874	9794858.74	9795166.719	-262.9	-26.29	-279.239	-277.586	-276.361	-27.924	-27.759	-27.636	0.198	40291	1.000018	53	-89
7060	-0.005	979486.08	9794860.8	9795166.674	-261.51	-26.151	-277.587	-275.96	-274.755	-27.759	-27.596	-27.476	0.198	40291	1.000018	53	-89
7061	-0.006	979487.003	9794870.03	9795166.649	-263.02	-26.302	-275.202	-273.97	-273.058	-27.52	-27.397	-27.306	0.198	40291	1.000018	53	-89
7062	-0.006	979487.038	9794870.38	9795166.599	-262.36	-26.236	-274.635	-273.393	-272.474	-27.463	-27.339	-27.247	0.198	40291	1.000018	53	-89
7063	-0.007	979486.603	9794866.03	9795166.542	-261.02	-26.102	-275.331	-273.883	-272.81	-27.533	-27.388	-27.281	0.198	40291	1.000018	53	-89
7064	-0.007	979487.051	9794870.51	9795166.553	-261.51	-26.151	-274.025	-272.759	-271.821	-27.403	-27.276	-27.182	0.198	40291	1.000018	53	-89
7065	-0.007	979486.667	9794866.67	9795166.507	-259.83	-25.983	-274.33	-272.863	-271.776	-27.433	-27.286	-27.178	0.198	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7048	-0.008	979486.248	9794862.48	9795164.982	-261.23	-26.123	-276.186	-274.673	-273.551	-27.619	-27.467	-27.355	0.198	40291	1.000018	53	-89
7066	-0.008	979486.572	9794865.72	9795166.448	-261.06	-26.106	-275.435	-273.98	-272.902	-27.543	-27.398	-27.29	0.198	40291	1.000018	53	-89
7067	-0.008	979486.748	9794867.48	9795167.91	-261.2	-26.12	-275.419	-273.98	-272.914	-27.542	-27.398	-27.291	0.198	40291	1.000018	53	-89
7068	-0.009	979486.766	9794867.66	9795167.963	-258.82	-25.882	-273.853	-272.332	-271.205	-27.385	-27.233	-27.121	0.198	40291	1.000018	53	-89
7069	-0.009	979486.749	9794867.49	9795168.018	-258.9	-25.89	-273.99	-272.464	-271.333	-27.399	-27.246	-27.133	0.198	40291	1.000018	53	-89
7070	-0.009	979487.068	9794870.68	9795168.041	-259	-25.9	-272.899	-271.492	-270.449	-27.29	-27.149	-27.045	0.198	40291	1.000018	53	-89
7071	-0.009	979486.463	9794864.63	9795168.073	-258.43	-25.843	-274.748	-273.098	-271.875	-27.475	-27.31	-27.188	0.198	40291	1.000018	53	-89
7072	-0.009	979485.947	9794859.47	9795168.116	-257.31	-25.731	-275.919	-274.036	-272.642	-27.592	-27.404	-27.264	0.198	40291	1.000018	53	-89
7073	-0.009	979487.143	9794871.43	9795168.165	-261.97	-26.197	-274.572	-273.297	-272.353	-27.457	-27.33	-27.235	0.198	40291	1.000018	53	-89
7074	-0.009	979486.849	9794868.49	9795168.2	-262.73	-26.273	-276.133	-274.776	-273.772	-27.613	-27.478	-27.377	0.198	40291	1.000018	53	-89
7058	-0.009	979485.933	9794859.33	9795166.768	-262.19	-26.219	-278.588	-276.929	-275.699	-27.859	-27.693	-27.57	0.198	40291	1.000018	53	-89
7075	-0.009	979486.975	9794869.75	9795166.825	-266.02	-26.602	-277.271	-276.132	-275.288	-27.727	-27.613	-27.529	0.198	40291	1.000018	53	-89
7076	-0.009	979488.517	9794885.17	9795166.905	-271.83	-27.183	-275.417	-275.054	-274.785	-27.542	-27.505	-27.478	0.198	40291	1.000018	53	-89
7077	-0.009	979487.126	9794871.26	9795166.888	-264.38	-26.438	-275.706	-274.56	-273.711	-27.571	-27.456	-27.371	0.198	40291	1.000018	53	-89
7078	-0.01	979486.713	9794867.13	9795166.949	-257.03	-25.703	-272.539	-270.97	-269.808	-27.254	-27.097	-26.981	0.198	40291	1.000018	53	-89
7079	-0.01	979485.172	9794851.72	9795167.01	-249.34	-24.934	-273.243	-270.824	-269.033	-27.324	-27.082	-26.903	0.198	40291	1.000018	53	-89
7080	-0.01	979486.909	9794869.09	9795168.479	-252.58	-25.258	-269.543	-267.827	-266.555	-26.954	-26.783	-26.656	0.198	40291	1.000018	53	-89
7081	-0.01	979486.842	9794868.42	9795168.442	-256.12	-25.612	-272.03	-270.42	-269.227	-27.203	-27.042	-26.923	0.198	40291	1.000018	53	-89
7082	-0.01	979487.184	9794871.84	9795168.388	-261.96	-26.196	-274.496	-273.228	-272.288	-27.45	-27.323	-27.229	0.198	40291	1.000018	53	-89
7083	-0.01	979487.769	9794877.69	9795168.323	-268.16	-26.816	-276.301	-275.476	-274.866	-27.63	-27.548	-27.487	0.198	40291	1.000018	53	-89
7084	-0.01	979488.797	9794887.97	9795168.358	-271.15	-27.115	-274.493	-274.154	-273.903	-27.449	-27.415	-27.39	0.198	40291	1.000018	53	-89
7085	-0.011	979487.772	9794877.72	9795168.267	-266.44	-26.644	-275.179	-274.295	-273.641	-27.518	-27.43	-27.364	0.198	40291	1.000018	53	-89
7086	-0.011	979486.296	9794862.96	9795168.207	-259.71	-25.971	-276.211	-274.541	-273.303	-27.621	-27.454	-27.33	0.198	40291	1.000018	53	-89
7058	-0.012	979485.937	9794859.37	9795166.768	-262.16	-26.216	-278.554	-276.895	-275.666	-27.855	-27.689	-27.567	0.198	40291	1.000018	53	-89
89	-0.013	979488.417	9794884.17	9795187.924	-235.74	-23.574	-260.387	-257.892	-256.045	-26.039	-25.789	-25.604	0.198	40291	1.000018	53	-89
-89	-0.013	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.198	40291	1.000018	53	-89
-89	0.08	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.216	40291	1.000018	53	-89
89	0.08	979488.413	9794884.13	9795187.924	-235.77	-23.577	-260.427	-257.932	-256.085	-26.043	-25.793	-25.608	0.216	40291	1.000018	53	-89
7087	0.073	979487.945	9794879.45	9795169.697	-263.69	-26.369	-273.314	-272.34	-271.618	-27.331	-27.234	-27.162	0.216	40291	1.000018	53	-89
7088	0.072	979487.501	9794875.01	9795169.675	-261.91	-26.191	-273.783	-272.582	-271.693	-27.378	-27.258	-27.169	0.216	40291	1.000018	53	-89
7089	0.07	979487.23	9794872.3	9795169.612	-259.99	-25.999	-273.515	-272.146	-271.132	-27.351	-27.215	-27.113	0.216	40291	1.000018	53	-89
7090	0.069	979486.301	9794863.01	9795169.601	-256.51	-25.651	-274.664	-272.828	-271.467	-27.466	-27.283	-27.147	0.216	40291	1.000018	53	-89
7091	0.069	979486.466	9794864.66	9795169.544	-255.8	-25.58	-273.595	-271.795	-270.462	-27.359	-27.179	-27.046	0.216	40291	1.000018	53	-89
7092	0.068	979486.728	9794867.28	9795169.531	-255.39	-25.539	-272.368	-270.649	-269.376	-27.237	-27.065	-26.938	0.216	40291	1.000018	53	-89
7093	0.066	979486.618	9794866.18	9795169.461	-256.41	-25.641	-273.395	-271.676	-270.402	-27.339	-27.168	-27.04	0.216	40291	1.000018	53	-89
7094	0.065	979486.785	9794867.85	9795169.434	-258.46	-25.846	-274.093	-272.512	-271.341	-27.409	-27.251	-27.134	0.216	40291	1.000018	53	-89
7095	0.064	979486.202	9794862.02	9795169.419	-258.24	-25.824	-276.052	-274.249	-272.914	-27.605	-27.425	-27.291	0.216	40291	1.000018	53	-89
7096	0.063	979485.676	9794856.76	9795170.886	-256.32	-25.632	-277.272	-275.153	-273.583	-27.727	-27.515	-27.358	0.216	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7097	0.061	979486.09	9794860.9	9795170.885	-254.96	-25.496	-274.907	-272.889	-271.395	-27.491	-27.289	-27.139	0.216	40291	1.000018	53	-89
7098	0.06	979486.283	9794862.83	9795170.951	-253.57	-25.357	-273.34	-271.339	-269.857	-27.334	-27.134	-26.986	0.216	40291	1.000018	53	-89
7099	0.059	979486.3	9794863	9795170.99	-252.39	-25.239	-272.542	-270.503	-268.992	-27.254	-27.05	-26.899	0.216	40291	1.000018	53	-89
7100	0.057	979486.7	9794867	9795171.036	-253.57	-25.357	-271.857	-270.007	-268.636	-27.186	-27.001	-26.864	0.216	40291	1.000018	53	-89
7101	0.056	979486.827	9794868.27	9795171.088	-255.89	-25.589	-272.896	-271.175	-269.9	-27.29	-27.118	-26.99	0.216	40291	1.000018	53	-89
7102	0.055	979487.161	9794871.61	9795171.084	-257	-25.7	-272.394	-270.837	-269.683	-27.239	-27.084	-26.968	0.216	40291	1.000018	53	-89
7103	0.053	979487.492	9794874.92	9795171.135	-260.83	-26.083	-273.652	-272.355	-271.393	-27.365	-27.235	-27.139	0.216	40291	1.000018	53	-89
7104	0.052	979487.495	9794874.95	9795171.185	-261.54	-26.154	-274.116	-272.844	-271.901	-27.412	-27.284	-27.19	0.216	40291	1.000018	53	-89
7087	0.05	979487.931	9794879.31	9795169.697	-263.81	-26.381	-273.44	-272.465	-271.743	-27.344	-27.247	-27.174	0.216	40291	1.000018	53	-89
7105	0.047	979487.522	9794875.22	9795169.752	-263.42	-26.342	-274.697	-273.556	-272.711	-27.47	-27.356	-27.271	0.216	40291	1.000018	53	-89
7106	0.045	979488.936	9794889.36	9795169.779	-269.61	-26.961	-273.527	-273.13	-272.837	-27.353	-27.313	-27.284	0.216	40291	1.000018	53	-89
7107	0.043	979488.859	9794888.59	9795169.848	-268.82	-26.882	-273.327	-272.871	-272.533	-27.333	-27.287	-27.253	0.216	40291	1.000018	53	-89
7108	0.041	979489.033	9794890.33	9795169.865	-266.89	-26.689	-271.466	-271.002	-270.659	-27.147	-27.1	-27.066	0.216	40291	1.000018	53	-89
7109	0.039	979488.432	9794884.32	9795169.901	-259.36	-25.936	-268.862	-267.9	-267.188	-26.886	-26.79	-26.719	0.216	40291	1.000018	53	-89
7110	0.037	979486.953	9794869.53	9795169.946	-250.77	-25.077	-268.762	-266.942	-265.593	-26.876	-26.694	-26.559	0.216	40291	1.000018	53	-89
7111	0.036	979488.962	9794889.62	9795171.421	-255.89	-25.589	-265.275	-264.324	-263.62	-26.527	-26.432	-26.362	0.216	40291	1.000018	53	-89
7112	0.034	979490.045	9794900.45	9795171.374	-262.67	-26.267	-265.662	-265.359	-265.135	-26.566	-26.536	-26.513	0.216	40291	1.000018	53	-89
7113	0.032	979489.745	9794897.45	9795171.339	-266.47	-26.647	-269.162	-268.89	-268.688	-26.916	-26.889	-26.869	0.216	40291	1.000018	53	-89
7114	0.029	979489.11	9794891.1	9795171.301	-267.3	-26.73	-271.969	-271.496	-271.145	-27.197	-27.15	-27.114	0.216	40291	1.000018	53	-89
7115	0.027	979488.48	9794884.8	9795171.27	-265.43	-26.543	-273.051	-272.279	-271.707	-27.305	-27.228	-27.171	0.216	40291	1.000018	53	-89
7116	0.025	979488.106	9794881.06	9795171.216	-262.66	-26.266	-272.62	-271.612	-270.865	-27.262	-27.161	-27.086	0.216	40291	1.000018	53	-89
7104	0.024	979487.497	9794874.97	9795171.185	-261.48	-26.148	-274.064	-272.79	-271.847	-27.406	-27.279	-27.185	0.216	40291	1.000018	53	-89
7117	0.004	979487.786	9794877.86	9795172.581	-257.44	-25.744	-270.951	-269.584	-268.571	-27.095	-26.958	-26.857	0.216	40291	1.000018	53	-89
7118	0.003	979487.426	9794874.26	9795172.547	-254.48	-25.448	-270.361	-268.755	-267.565	-27.036	-26.876	-26.757	0.216	40291	1.000018	53	-89
7119	0.002	979487.58	9794875.8	9795172.504	-254.35	-25.435	-269.702	-268.149	-266.998	-26.97	-26.815	-26.7	0.216	40291	1.000018	53	-89
7120	0.001	979487.476	9794874.76	9795172.454	-253.81	-25.381	-269.715	-268.106	-266.914	-26.972	-26.811	-26.691	0.216	40291	1.000018	53	-89
7121	0	979486.986	9794869.86	9795172.419	-253.54	-25.354	-271.305	-269.507	-268.176	-27.13	-26.951	-26.818	0.216	40291	1.000018	53	-89
7122	-0.001	979486.296	9794862.96	9795172.392	-254.78	-25.478	-274.588	-272.584	-271.099	-27.459	-27.258	-27.11	0.216	40291	1.000018	53	-89
7123	-0.002	979485.288	9794852.88	9795172.351	-253.95	-25.395	-277.695	-275.293	-273.513	-27.77	-27.529	-27.351	0.216	40291	1.000018	53	-89
7124	-0.003	979487.286	9794872.86	9795173.827	-257.69	-25.769	-273.376	-271.789	-270.614	-27.338	-27.179	-27.061	0.216	40291	1.000018	53	-89
7125	-0.003	979487.113	9794871.13	9795173.848	-256.26	-25.626	-273.093	-271.389	-270.127	-27.309	-27.139	-27.013	0.216	40291	1.000018	53	-89
7126	-0.004	979488.003	9794880.03	9795173.905	-256.15	-25.615	-269.826	-268.443	-267.418	-26.983	-26.844	-26.742	0.216	40291	1.000018	53	-89
7127	-0.005	979488.115	9794881.15	9795173.935	-254.12	-25.412	-268.13	-266.712	-265.661	-26.813	-26.671	-26.566	0.216	40291	1.000018	53	-89
7128	-0.006	979488.089	9794880.89	9795173.984	-253.03	-25.303	-267.554	-266.085	-264.997	-26.755	-26.608	-26.5	0.216	40291	1.000018	53	-89
7129	-0.007	979487.255	9794872.55	9795173.998	-251.45	-25.145	-269.573	-267.739	-266.381	-26.957	-26.774	-26.638	0.216	40291	1.000018	53	-89
7130	-0.007	979487.877	9794878.77	9795174.046	-255.92	-25.592	-270.182	-268.739	-267.669	-27.018	-26.874	-26.767	0.216	40291	1.000018	53	-89
7117	-0.008	979487.778	9794877.78	9795172.581	-257.52	-25.752	-271.033	-269.666	-268.653	-27.103	-26.967	-26.865	0.216	40291	1.000018	53	-89
7131	-0.009	979487.101	9794871.01	9795172.623	-256.63	-25.663	-272.927	-271.277	-270.054	-27.293	-27.128	-27.005	0.216	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7132	-0.01	979486.868	9794868.68	9795172.646	-256.58	-25.658	-273.749	-272.011	-270.723	-27.375	-27.201	-27.072	0.216	40291	1.000018	53	-89
7133	-0.011	979487.896	9794878.96	9795172.682	-259.58	-25.958	-271.953	-270.701	-269.773	-27.195	-27.07	-26.977	0.216	40291	1.000018	53	-89
7134	-0.012	979487.666	9794876.66	9795172.732	-258.58	-25.858	-272.172	-270.797	-269.779	-27.217	-27.08	-26.978	0.216	40291	1.000018	53	-89
7135	-0.013	979489.291	9794892.91	9795172.77	-265.6	-26.56	-270.766	-270.243	-269.856	-27.077	-27.024	-26.986	0.216	40291	1.000018	53	-89
7136	-0.014	979489.823	9794898.23	9795172.81	-266.03	-26.603	-269.128	-268.814	-268.582	-26.913	-26.881	-26.858	0.216	40291	1.000018	53	-89
7137	-0.015	979490.267	9794902.67	9795172.842	-263.16	-26.316	-265.704	-265.447	-265.257	-26.57	-26.545	-26.526	0.216	40291	1.000018	53	-89
7138	-0.016	979490.612	9794906.12	9795172.886	-259.53	-25.953	-262.154	-261.889	-261.693	-26.215	-26.189	-26.169	0.216	40291	1.000018	53	-89
7139	-0.017	979490.811	9794908.11	9795174.361	-259.12	-25.912	-261.701	-261.439	-261.245	-26.17	-26.144	-26.125	0.216	40291	1.000018	53	-89
7140	-0.017	979490.393	9794903.93	9795174.328	-262.55	-26.255	-265.391	-265.103	-264.89	-26.539	-26.51	-26.489	0.216	40291	1.000018	53	-89
7141	-0.018	979489.638	9794896.38	9795174.287	-261.81	-26.181	-267.643	-267.053	-266.616	-26.764	-26.705	-26.662	0.216	40291	1.000018	53	-89
7142	-0.019	979488.232	9794882.32	9795174.241	-257.81	-25.781	-270.174	-268.923	-267.996	-27.017	-26.892	-26.8	0.216	40291	1.000018	53	-89
7143	-0.02	979487.263	9794872.63	9795174.201	-256.3	-25.63	-272.702	-271.041	-269.811	-27.27	-27.104	-26.981	0.216	40291	1.000018	53	-89
7144	-0.02	979488.147	9794881.47	9795174.166	-257.61	-25.761	-270.326	-269.04	-268.087	-27.033	-26.904	-26.809	0.216	40291	1.000018	53	-89
7145	-0.021	979487.411	9794874.11	9795174.128	-254.77	-25.477	-271.17	-269.511	-268.282	-27.117	-26.951	-26.828	0.216	40291	1.000018	53	-89
7146	-0.021	979486.335	9794863.35	9795174.081	-251.66	-25.166	-273.065	-270.899	-269.294	-27.307	-27.09	-26.929	0.216	40291	1.000018	53	-89
7130	-0.022	979487.863	9794878.63	9795174.046	-256.09	-25.609	-270.342	-268.899	-267.831	-27.034	-26.89	-26.783	0.216	40291	1.000018	53	-89
89	-0.024	979488.411	9794884.11	9795187.924	-235.8	-23.58	-260.447	-257.952	-256.105	-26.045	-25.795	-25.61	0.216	40291	1.000018	53	-89
-89	-0.024	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.216	40291	1.000018	53	-89
-89	0.073	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.211	40291	1.000018	53	-89
89	0.073	979488.414	9794884.14	9795187.924	-235.77	-23.577	-260.417	-257.922	-256.075	-26.042	-25.792	-25.607	0.211	40291	1.000018	53	-89
7147	0.081	979489.033	9794890.33	9795175.52	-256.53	-25.653	-266.917	-265.866	-265.087	-26.692	-26.587	-26.509	0.211	40291	1.000018	53	-89
7148	0.082	979488.825	9794888.25	9795175.474	-254.54	-25.454	-266.383	-265.184	-264.297	-26.638	-26.518	-26.43	0.211	40291	1.000018	53	-89
7149	0.083	979488.481	9794884.81	9795175.416	-253.56	-25.356	-266.982	-265.623	-264.616	-26.698	-26.562	-26.462	0.211	40291	1.000018	53	-89
7150	0.084	979488.774	9794887.74	9795175.405	-254.87	-25.487	-266.75	-265.547	-264.656	-26.675	-26.555	-26.466	0.211	40291	1.000018	53	-89
7151	0.085	979488.734	9794887.34	9795175.377	-257.15	-25.715	-268.343	-267.211	-266.372	-26.834	-26.721	-26.637	0.211	40291	1.000018	53	-89
7152	0.085	979488.44	9794884.4	9795175.321	-258.69	-25.869	-270.373	-269.192	-268.316	-27.037	-26.919	-26.832	0.211	40291	1.000018	53	-89
7153	0.086	979487.98	9794879.8	9795175.297	-258.51	-25.851	-271.912	-270.555	-269.55	-27.191	-27.056	-26.955	0.211	40291	1.000018	53	-89
7154	0.086	979488.192	9794881.92	9795176.767	-256.5	-25.65	-270.402	-268.996	-267.954	-27.04	-26.9	-26.795	0.211	40291	1.000018	53	-89
7155	0.086	979488.519	9794885.19	9795176.8	-256.69	-25.669	-269.347	-268.066	-267.118	-26.935	-26.807	-26.712	0.211	40291	1.000018	53	-89
7156	0.087	979489.211	9794892.11	9795176.849	-257.06	-25.706	-267.089	-266.074	-265.322	-26.709	-26.607	-26.532	0.211	40291	1.000018	53	-89
7157	0.087	979488.835	9794888.35	9795176.884	-254.68	-25.468	-266.946	-265.704	-264.785	-26.695	-26.57	-26.478	0.211	40291	1.000018	53	-89
7158	0.087	979489.088	9794890.88	9795176.919	-253.9	-25.39	-265.55	-264.372	-263.499	-26.555	-26.437	-26.35	0.211	40291	1.000018	53	-89
7159	0.087	979488.442	9794884.42	9795176.968	-251.32	-25.132	-266.26	-264.748	-263.628	-26.626	-26.475	-26.363	0.211	40291	1.000018	53	-89
7160	0.087	979488.676	9794886.76	9795177.021	-253.05	-25.305	-266.54	-265.176	-264.165	-26.654	-26.518	-26.417	0.211	40291	1.000018	53	-89
7147	0.087	979489.029	9794890.29	9795175.52	-256.54	-25.654	-266.937	-265.885	-265.106	-26.694	-26.588	-26.511	0.211	40291	1.000018	53	-89
7161	0.086	979488.119	9794881.19	9795175.581	-254.42	-25.442	-268.907	-267.442	-266.356	-26.891	-26.744	-26.636	0.211	40291	1.000018	53	-89
7162	0.086	979488.179	9794881.79	9795175.606	-255.45	-25.545	-269.355	-267.948	-266.906	-26.935	-26.795	-26.691	0.211	40291	1.000018	53	-89
7163	0.085	979487.848	9794878.48	9795175.642	-254.86	-25.486	-270.187	-268.636	-267.487	-27.019	-26.864	-26.749	0.211	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7164	0.085	979487.645	9794876.45	9795175.7	-255.33	-25.533	-271.246	-269.635	-268.442	-27.125	-26.964	-26.844	0.211	40291	1.000018	53	-89
7165	0.084	979488.822	9794888.22	9795175.736	-257.93	-25.793	-268.652	-267.567	-266.763	-26.865	-26.757	-26.676	0.211	40291	1.000018	53	-89
7166	0.084	979488.938	9794889.38	9795175.793	-257.57	-25.757	-268.021	-266.964	-266.18	-26.802	-26.696	-26.618	0.211	40291	1.000018	53	-89
7167	0.083	979489.766	9794897.66	9795175.784	-260.94	-26.094	-267.163	-266.533	-266.066	-26.716	-26.653	-26.607	0.211	40291	1.000018	53	-89
7168	0.082	979490.878	9794908.78	9795175.901	-259.35	-25.935	-262.165	-261.88	-261.669	-26.217	-26.188	-26.167	0.211	40291	1.000018	53	-89
7169	0.08	979490.375	9794903.75	9795177.303	-259.54	-25.954	-264.617	-264.103	-263.722	-26.462	-26.41	-26.372	0.211	40291	1.000018	53	-89
7170	0.079	979489.389	9794893.89	9795177.265	-256.69	-25.669	-266.359	-265.38	-264.655	-26.636	-26.538	-26.465	0.211	40291	1.000018	53	-89
7171	0.078	979488.973	9794889.73	9795177.236	-256.49	-25.649	-267.732	-266.594	-265.752	-26.773	-26.659	-26.575	0.211	40291	1.000018	53	-89
7172	0.076	979488.696	9794886.96	9795177.19	-256.18	-25.618	-268.52	-267.271	-266.346	-26.852	-26.727	-26.635	0.211	40291	1.000018	53	-89
7173	0.075	979488.766	9794887.66	9795177.157	-255.52	-25.552	-267.836	-266.59	-265.668	-26.784	-26.659	-26.567	0.211	40291	1.000018	53	-89
7174	0.074	979488.827	9794888.27	9795177.118	-255.2	-25.52	-267.394	-266.16	-265.246	-26.739	-26.616	-26.525	0.211	40291	1.000018	53	-89
7175	0.073	979488.875	9794888.75	9795177.075	-255.02	-25.502	-267.091	-265.869	-264.965	-26.709	-26.587	-26.496	0.211	40291	1.000018	53	-89
7176	0.072	979489.035	9794890.35	9795177.024	-255.73	-25.573	-266.947	-265.812	-264.972	-26.695	-26.581	-26.497	0.211	40291	1.000018	53	-89
7161	0.071	979488.119	9794881.19	9795175.581	-254.41	-25.441	-268.898	-267.431	-266.345	-26.89	-26.743	-26.635	0.211	40291	1.000018	53	-89
7177	0.052	979489.256	9794892.56	9795178.474	-252.17	-25.217	-264.397	-263.159	-262.243	-26.44	-26.316	-26.224	0.211	40291	1.000018	53	-89
7178	0.05	979489.543	9794895.43	9795178.522	-255.62	-25.562	-265.57	-264.562	-263.816	-26.557	-26.456	-26.382	0.211	40291	1.000018	53	-89
7179	0.048	979488.571	9794885.71	9795178.548	-251.4	-25.14	-266.42	-264.901	-263.775	-26.642	-26.49	-26.377	0.211	40291	1.000018	53	-89
7180	0.046	979488.66	9794886.6	9795178.576	-252.12	-25.212	-266.565	-265.104	-264.021	-26.657	-26.51	-26.402	0.211	40291	1.000018	53	-89
7181	0.045	979488.733	9794887.33	9795178.625	-252.24	-25.224	-266.397	-264.965	-263.905	-26.64	-26.497	-26.39	0.211	40291	1.000018	53	-89
7182	0.043	979488.6	9794886	9795178.667	-253.66	-25.366	-267.797	-266.366	-265.307	-26.78	-26.637	-26.531	0.211	40291	1.000018	53	-89
7183	0.042	979489.085	9794890.85	9795178.699	-255.56	-25.556	-267.262	-266.078	-265.201	-26.726	-26.608	-26.52	0.211	40291	1.000018	53	-89
7184	0.041	979490.09	9794900.9	9795178.749	-254.62	-25.462	-263.034	-262.182	-261.551	-26.303	-26.218	-26.155	0.211	40291	1.000018	53	-89
7185	0.039	979490.46	9794904.6	9795178.769	-255.66	-25.566	-262.367	-261.688	-261.185	-26.237	-26.169	-26.119	0.211	40291	1.000018	53	-89
7186	0.037	979490.936	9794909.36	9795180.261	-252.77	-25.277	-259.342	-258.678	-258.185	-25.934	-25.868	-25.819	0.211	40291	1.000018	53	-89
7187	0.036	979490.574	9794905.74	9795180.214	-253.38	-25.338	-261.026	-260.253	-259.68	-26.103	-26.025	-25.968	0.211	40291	1.000018	53	-89
7188	0.034	979489.182	9794891.82	9795180.286	-255.06	-25.506	-267.165	-265.94	-265.032	-26.717	-26.594	-26.503	0.211	40291	1.000018	53	-89
7189	0.032	979488.702	9794887.02	9795180.143	-251.69	-25.169	-266.704	-265.185	-264.059	-26.67	-26.518	-26.406	0.211	40291	1.000018	53	-89
7190	0.031	979488.327	9794883.27	9795180.102	-248.59	-24.859	-266.073	-264.304	-262.994	-26.607	-26.43	-26.299	0.211	40291	1.000018	53	-89
7191	0.029	979489.195	9794891.95	9795180.064	-251.21	-25.121	-264.582	-263.229	-262.226	-26.458	-26.323	-26.223	0.211	40291	1.000018	53	-89
7192	0.028	979489.681	9794896.81	9795180.021	-253.34	-25.334	-264.167	-263.071	-262.26	-26.417	-26.307	-26.226	0.211	40291	1.000018	53	-89
7193	0.026	979489.74	9794897.4	9795179.986	-253.21	-25.321	-263.853	-262.775	-261.977	-26.385	-26.278	-26.198	0.211	40291	1.000018	53	-89
7194	0.024	979489.882	9794898.82	9795179.955	-251.41	-25.141	-262.177	-261.087	-260.279	-26.218	-26.109	-26.028	0.211	40291	1.000018	53	-89
7177	0.021	979489.248	9794892.48	9795178.474	-252.28	-25.228	-264.497	-263.26	-262.344	-26.45	-26.326	-26.234	0.211	40291	1.000018	53	-89
7195	0.012	979489.246	9794892.46	9795178.416	-251.85	-25.185	-264.208	-262.957	-262.031	-26.421	-26.296	-26.203	0.211	40291	1.000018	53	-89
7196	0.011	979488.439	9794884.39	9795178.367	-250.34	-25.034	-266.158	-264.558	-263.373	-26.616	-26.456	-26.337	0.211	40291	1.000018	53	-89
7197	0.009	979488.474	9794884.74	9795178.3	-253.36	-25.336	-267.926	-266.452	-265.36	-26.793	-26.645	-26.536	0.211	40291	1.000018	53	-89
7198	0.007	979489.119	9794891.19	9795178.326	-255.07	-25.507	-266.691	-265.515	-264.644	-26.669	-26.551	-26.464	0.211	40291	1.000018	53	-89
7199	0.006	979488.584	9794885.84	9795178.282	-254.88	-25.488	-268.492	-267.115	-266.095	-26.849	-26.711	-26.609	0.211	40291	1.000018	53	-89

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station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7200	0.004	979487.735	9794877.35	9795178.248	-252.51	-25.251	-270.043	-268.268	-266.954	-27.004	-26.827	-26.695	0.211	40291	1.000018	53	-89
7201	0.001	979488.448	9794884.48	9795179.718	-251.28	-25.128	-267.21	-265.598	-264.404	-26.721	-26.56	-26.44	0.211	40291	1.000018	53	-89
7202	-0.001	979488.686	9794886.86	9795179.758	-253.25	-25.325	-267.617	-266.163	-265.086	-26.762	-26.616	-26.509	0.211	40291	1.000018	53	-89
7203	-0.002	979488.647	9794886.47	9795179.785	-251.56	-25.156	-266.696	-265.165	-264.031	-26.67	-26.517	-26.403	0.211	40291	1.000018	53	-89
7204	-0.005	979489.395	9794893.95	9795179.832	-253.26	-25.326	-265.079	-263.882	-262.996	-26.508	-26.388	-26.3	0.211	40291	1.000018	53	-89
7205	-0.006	979488.819	9794888.19	9795179.89	-249.4	-24.94	-264.733	-263.182	-262.033	-26.473	-26.318	-26.203	0.211	40291	1.000018	53	-89
7206	-0.008	979489.71	9794897.1	9795179.957	-250.56	-25.056	-262.266	-261.082	-260.205	-26.227	-26.108	-26.02	0.211	40291	1.000018	53	-89
7195	-0.01	979489.26	9794892.6	9795178.416	-251.76	-25.176	-264.102	-262.853	-261.928	-26.41	-26.285	-26.193	0.211	40291	1.000018	53	-89
7207	-0.02	979488.381	9794883.81	9795165.371	-273.93	-27.393	-276.693	-276.413	-276.206	-27.669	-27.641	-27.621	0.211	40291	1.000018	53	-89
7208	-0.021	979488.38	9794883.8	9795165.415	-274.5	-27.45	-277.072	-276.811	-276.617	-27.707	-27.681	-27.662	0.211	40291	1.000018	53	-89
7209	-0.024	979488.601	9794886.01	9795166.857	-272.46	-27.246	-275.494	-275.186	-274.958	-27.549	-27.519	-27.496	0.211	40291	1.000018	53	-89
89	-0.031	979488.413	9794884.13	9795187.924	-235.78	-23.578	-260.427	-257.932	-256.085	-26.043	-25.793	-25.608	0.211	40291	1.000018	53	-89
-89	-0.032	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.211	40291	1.000018	53	-89
-89	0.083	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.189	40291	1.000018	53	-89
89	0.083	979488.412	9794884.12	9795187.924	-235.78	-23.578	-260.437	-257.942	-256.095	-26.044	-25.794	-25.609	0.189	40291	1.000018	53	-89
7210	0.094	979490.099	9794900.99	9795181.406	-249.35	-24.935	-260.608	-259.469	-258.625	-26.061	-25.947	-25.862	0.189	40291	1.000018	53	-89
7211	0.096	979490.191	9794901.91	9795181.453	-251.52	-25.152	-261.677	-260.65	-259.888	-26.168	-26.065	-25.989	0.189	40291	1.000018	53	-89
7212	0.098	979489.969	9794899.69	9795181.494	-252.14	-25.214	-262.886	-261.798	-260.992	-26.289	-26.18	-26.099	0.189	40291	1.000018	53	-89
7213	0.099	979489.343	9794893.43	9795181.537	-249.3	-24.93	-263.365	-261.942	-260.888	-26.336	-26.194	-26.089	0.189	40291	1.000018	53	-89
7214	0.1	979488.652	9794886.52	9795181.571	-246.88	-24.688	-264.338	-262.572	-261.263	-26.434	-26.257	-26.126	0.189	40291	1.000018	53	-89
7215	0.101	979488.674	9794886.74	9795181.62	-248.75	-24.875	-265.467	-263.775	-262.522	-26.547	-26.378	-26.252	0.189	40291	1.000018	53	-89
7216	0.102	979489.679	9794896.79	9795181.653	-253.07	-25.307	-264.595	-263.43	-262.566	-26.46	-26.343	-26.257	0.189	40291	1.000018	53	-89
7217	0.102	979490.886	9794908.86	9795181.693	-250.03	-25.003	-258.292	-257.456	-256.836	-25.829	-25.746	-25.684	0.189	40291	1.000018	53	-89
7218	0.103	979491.46	9794914.6	9795181.74	-249.37	-24.937	-255.806	-255.154	-254.671	-25.581	-25.515	-25.467	0.189	40291	1.000018	53	-89
7219	0.103	979491.297	9794912.97	9795183.232	-246.42	-24.642	-255.066	-254.192	-253.544	-25.507	-25.419	-25.354	0.189	40291	1.000018	53	-89
7220	0.103	979490.265	9794902.65	9795183.16	-246.33	-24.633	-258.719	-257.466	-256.538	-25.872	-25.747	-25.654	0.189	40291	1.000018	53	-89
7221	0.103	979489.052	9794890.52	9795183.121	-248.26	-24.826	-264.329	-262.703	-261.499	-26.433	-26.27	-26.15	0.189	40291	1.000018	53	-89
7222	0.103	979488.413	9794884.13	9795183.085	-245.18	-24.518	-264.669	-262.697	-261.237	-26.467	-26.27	-26.124	0.189	40291	1.000018	53	-89
7223	0.103	979488.911	9794889.11	9795183.021	-244.2	-24.42	-262.223	-260.4	-259.05	-26.222	-26.04	-25.905	0.189	40291	1.000018	53	-89
7224	0.102	979489.717	9794897.17	9795183.013	-247.52	-24.752	-261.414	-260.009	-258.968	-26.141	-26.001	-25.897	0.189	40291	1.000018	53	-89
7225	0.102	979490.029	9794900.29	9795182.973	-249.04	-24.904	-261.234	-260.001	-259.087	-26.123	-26	-25.909	0.189	40291	1.000018	53	-89
7226	0.101	979490.272	9794902.72	9795182.944	-248.75	-24.875	-260.153	-258.998	-258.143	-26.015	-25.9	-25.814	0.189	40291	1.000018	53	-89
7227	0.1	979490.149	9794901.49	9795182.911	-247.56	-24.756	-259.829	-258.587	-257.667	-25.983	-25.859	-25.767	0.189	40291	1.000018	53	-89
7210	0.1	979490.12	9794901.2	9795181.406	-249.15	-24.915	-260.402	-259.263	-258.419	-26.04	-25.926	-25.842	0.189	40291	1.000018	53	-89
7228	0.097	979490.294	9794902.94	9795181.4	-249.89	-24.989	-260.248	-259.201	-258.425	-26.025	-25.92	-25.842	0.189	40291	1.000018	53	-89
7229	0.094	979489.771	9794897.71	9795181.344	-250.12	-25.012	-262.264	-261.035	-260.125	-26.226	-26.104	-26.012	0.189	40291	1.000018	53	-89
7230	0.093	979489.607	9794896.07	9795181.306	-251.07	-25.107	-263.449	-262.195	-261.267	-26.345	-26.22	-26.127	0.189	40291	1.000018	53	-89
7231	0.091	979489.628	9794896.28	9795181.275	-252.85	-25.285	-264.498	-263.319	-262.446	-26.45	-26.332	-26.245	0.189	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7232	0.089	979489.288	9794892.88	9795181.21	-253.6	-25.36	-266.188	-264.915	-263.972	-26.619	-26.491	-26.397	0.189	40291	1.000018	53	-89
7233	0.087	979488.963	9794889.63	9795181.194	-250.35	-25.035	-265.289	-263.778	-262.659	-26.529	-26.378	-26.266	0.189	40291	1.000018	53	-89
7234	0.085	979489.133	9794891.33	9795182.66	-249.18	-24.918	-264.451	-262.905	-261.76	-26.445	-26.291	-26.176	0.189	40291	1.000018	53	-89
7235	0.083	979489.193	9794891.93	9795182.701	-251.55	-25.155	-265.762	-264.323	-263.258	-26.576	-26.432	-26.326	0.189	40291	1.000018	53	-89
7236	0.082	979489.182	9794891.82	9795182.754	-249.66	-24.966	-264.618	-263.104	-261.983	-26.462	-26.31	-26.198	0.189	40291	1.000018	53	-89
7237	0.079	979489.49	9794894.9	9795182.761	-248.13	-24.813	-262.529	-261.072	-259.993	-26.253	-26.107	-25.999	0.189	40291	1.000018	53	-89
7238	0.077	979490.211	9794902.11	9795182.819	-249.47	-24.947	-260.787	-259.641	-258.792	-26.079	-25.964	-25.879	0.189	40291	1.000018	53	-89
7239	0.074	979490.498	9794904.98	9795182.85	-248.8	-24.88	-259.335	-258.269	-257.479	-25.933	-25.827	-25.748	0.189	40291	1.000018	53	-89
7228	0.071	979490.303	9794903.03	9795181.4	-249.8	-24.98	-260.152	-259.104	-258.328	-26.015	-25.91	-25.833	0.189	40291	1.000018	53	-89
7240	0.013	979489.99	9794899.9	9795184.312	-245.29	-24.529	-259.471	-258.036	-256.974	-25.947	-25.804	-25.697	0.189	40291	1.000018	53	-89
7241	0.011	979490.317	9794903.17	9795185.805	-243.86	-24.386	-257.911	-256.489	-255.436	-25.791	-25.649	-25.544	0.189	40291	1.000018	53	-89
7242	0.007	979490.84	9794908.4	9795185.827	-245.4	-24.54	-257.003	-255.829	-254.958	-25.7	-25.583	-25.496	0.189	40291	1.000018	53	-89
7243	0.005	979491.043	9794910.43	9795185.855	-245.37	-24.537	-256.263	-255.161	-254.344	-25.626	-25.516	-25.434	0.189	40291	1.000018	53	-89
7244	0.002	979490.611	9794906.11	9795185.921	-245.26	-24.526	-257.782	-256.515	-255.577	-25.778	-25.652	-25.558	0.189	40291	1.000018	53	-89
7245	0	979490.259	9794902.59	9795185.954	-242.59	-24.259	-257.363	-255.868	-254.76	-25.736	-25.587	-25.476	0.189	40291	1.000018	53	-89
7246	-0.002	979490.404	9794904.04	9795185.961	-242.63	-24.263	-256.866	-255.425	-254.357	-25.687	-25.542	-25.436	0.189	40291	1.000018	53	-89
7247	-0.004	979489.473	9794894.73	9795186.034	-241.34	-24.134	-259.446	-257.613	-256.256	-25.945	-25.761	-25.626	0.189	40291	1.000018	53	-89
7248	-0.007	979488.988	9794889.88	9795186.063	-240.01	-24.001	-260.365	-258.305	-256.779	-26.036	-25.83	-25.678	0.189	40291	1.000018	53	-89
7249	-0.01	979489.899	9794898.99	9795186.102	-242.42	-24.242	-258.618	-256.979	-255.765	-25.862	-25.698	-25.577	0.189	40291	1.000018	53	-89
7250	-0.012	979491.169	9794911.69	9795186.157	-242.1	-24.21	-253.829	-252.641	-251.762	-25.383	-25.264	-25.176	0.189	40291	1.000018	53	-89
7251	-0.016	979490.751	9794907.51	9795184.607	-242.95	-24.295	-255.325	-254.073	-253.146	-25.533	-25.407	-25.315	0.189	40291	1.000018	53	-89
7252	-0.019	979489.684	9794896.84	9795184.569	-244.09	-24.409	-259.907	-258.306	-257.121	-25.991	-25.831	-25.712	0.189	40291	1.000018	53	-89
7253	-0.021	979488.524	9794885.24	9795184.612	-245.37	-24.537	-264.941	-262.96	-261.493	-26.494	-26.296	-26.149	0.189	40291	1.000018	53	-89
7254	-0.024	979489.492	9794894.92	9795184.56	-246.05	-24.605	-261.848	-260.25	-259.066	-26.185	-26.025	-25.907	0.189	40291	1.000018	53	-89
7255	-0.026	979489.896	9794898.96	9795184.46	-244.01	-24.401	-259.044	-257.523	-256.396	-25.904	-25.752	-25.64	0.189	40291	1.000018	53	-89
7256	-0.028	979490.055	9794900.55	9795184.437	-245.89	-24.589	-259.66	-258.267	-257.235	-25.966	-25.827	-25.723	0.189	40291	1.000018	53	-89
7257	-0.031	979489.193	9794891.93	9795184.423	-243.79	-24.379	-261.44	-259.654	-258.331	-26.144	-25.965	-25.833	0.189	40291	1.000018	53	-89
7258	-0.032	979490.03	9794900.3	9795184.407	-246.52	-24.652	-260.139	-258.76	-257.739	-26.014	-25.876	-25.774	0.189	40291	1.000018	53	-89
7259	-0.035	979490.707	9794907.07	9795184.366	-247.22	-24.722	-258.117	-257.014	-256.197	-25.812	-25.701	-25.62	0.189	40291	1.000018	53	-89
7240	-0.038	979490.004	9794900.04	9795184.312	-245.15	-24.515	-259.331	-257.896	-256.834	-25.933	-25.79	-25.683	0.189	40291	1.000018	53	-89
89	-0.045	979488.41	9794884.1	9795187.924	-235.81	-23.581	-260.457	-257.962	-256.115	-26.046	-25.796	-25.611	0.189	40291	1.000018	53	-89
-89	-0.045	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.189	40291	1.000018	53	-89
-89	0.03	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.232	40291	1.000018	53	-89
89	0.031	979488.416	9794884.16	9795187.924	-235.74	-23.574	-260.397	-257.902	-256.055	-26.04	-25.79	-25.605	0.232	40291	1.000018	53	-89
7260	0.058	979489.916	9794899.16	9795187.28	-240.94	-24.094	-258.035	-256.304	-255.023	-25.803	-25.63	-25.502	0.232	40291	1.000018	53	-89
7261	0.061	979488.839	9794888.39	9795187.228	-238.97	-23.897	-260.669	-258.474	-256.847	-26.067	-25.847	-25.685	0.232	40291	1.000018	53	-89
7262	0.064	979488.417	9794884.17	9795187.222	-240.67	-24.067	-263.28	-260.992	-259.298	-26.328	-26.099	-25.93	0.232	40291	1.000018	53	-89
7263	0.068	979488.862	9794888.62	9795187.149	-243.18	-24.318	-263.244	-261.214	-259.711	-26.324	-26.121	-25.971	0.232	40291	1.000018	53	-89

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station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7264	0.071	979488.209	9794882.09	9795187.13	-239.11	-23.911	-263.007	-260.589	-258.799	-26.301	-26.059	-25.88	0.232	40291	1.000018	53	-89
7265	0.074	979488.551	9794885.51	9795185.639	-244.24	-24.424	-264.5	-262.451	-260.933	-26.45	-26.245	-26.093	0.232	40291	1.000018	53	-89
7266	0.077	979488.893	9794888.93	9795184.172	-248.38	-24.838	-265.367	-263.649	-262.376	-26.537	-26.365	-26.238	0.232	40291	1.000018	53	-89
7267	0.08	979489.032	9794890.32	9795184.132	-246.63	-24.663	-263.727	-261.997	-260.715	-26.373	-26.2	-26.071	0.232	40291	1.000018	53	-89
7268	0.083	979489.239	9794892.39	9795185.605	-245.16	-24.516	-262.577	-260.815	-259.509	-26.258	-26.081	-25.951	0.232	40291	1.000018	53	-89
7269	0.086	979489.945	9794899.45	9795187.074	-243.89	-24.389	-259.738	-258.134	-256.946	-25.974	-25.813	-25.695	0.232	40291	1.000018	53	-89
7270	0.088	979490.226	9794902.26	9795188.565	-241.86	-24.186	-257.967	-256.337	-255.13	-25.797	-25.634	-25.513	0.232	40291	1.000018	53	-89
7271	0.091	979490.075	9794900.75	9795188.613	-240.81	-24.081	-257.864	-256.138	-254.86	-25.786	-25.614	-25.486	0.232	40291	1.000018	53	-89
7272	0.094	979488.594	9794885.94	9795188.634	-238.06	-23.806	-261.491	-259.121	-257.366	-26.149	-25.912	-25.737	0.232	40291	1.000018	53	-89
7273	0.096	979488.974	9794889.74	9795188.696	-240.74	-24.074	-261.837	-259.702	-258.12	-26.184	-25.97	-25.812	0.232	40291	1.000018	53	-89
7274	0.099	979488.963	9794889.63	9795188.696	-237.62	-23.762	-259.893	-257.64	-255.971	-25.989	-25.764	-25.597	0.232	40291	1.000018	53	-89
7260	0.103	979489.932	9794899.32	9795187.28	-240.81	-24.081	-257.894	-256.165	-254.884	-25.789	-25.617	-25.488	0.232	40291	1.000018	53	-89
7275	0.11	979490.881	9794908.81	9795187.294	-242.87	-24.287	-255.78	-254.475	-253.507	-25.578	-25.447	-25.351	0.232	40291	1.000018	53	-89
7276	0.112	979491.192	9794911.92	9795187.35	-242.51	-24.251	-254.437	-253.23	-252.336	-25.444	-25.323	-25.234	0.232	40291	1.000018	53	-89
7277	0.113	979491.29	9794912.9	9795187.413	-242.65	-24.265	-254.196	-253.027	-252.161	-25.42	-25.303	-25.216	0.232	40291	1.000018	53	-89
7278	0.115	979490.738	9794907.38	9795187.435	-241.97	-24.197	-255.777	-254.381	-253.346	-25.578	-25.438	-25.335	0.232	40291	1.000018	53	-89
7279	0.116	979490.623	9794906.23	9795187.473	-240.16	-24.016	-255.049	-253.542	-252.426	-25.505	-25.354	-25.243	0.232	40291	1.000018	53	-89
7280	0.117	979490.405	9794904.05	9795187.499	-238.64	-23.864	-254.877	-253.233	-252.016	-25.488	-25.323	-25.202	0.232	40291	1.000018	53	-89
7281	0.118	979490.493	9794904.93	9795187.539	-238.76	-23.876	-254.656	-253.049	-251.858	-25.466	-25.305	-25.186	0.232	40291	1.000018	53	-89
7282	0.119	979491.381	9794913.81	9795187.59	-243.59	-24.359	-254.533	-253.426	-252.606	-25.453	-25.343	-25.261	0.232	40291	1.000018	53	-89
7283	0.12	979492.175	9794921.75	9795187.613	-243.62	-24.362	-251.678	-250.862	-250.257	-25.168	-25.086	-25.026	0.232	40291	1.000018	53	-89
7284	0.121	979491.94	9794919.4	9795189.112	-240.04	-24.004	-250.794	-249.706	-248.9	-25.079	-24.971	-24.89	0.232	40291	1.000018	53	-89
7285	0.121	979491.834	9794918.34	9795189.062	-243.8	-24.38	-253.554	-252.567	-251.836	-25.355	-25.257	-25.184	0.232	40291	1.000018	53	-89
7286	0.121	979490.985	9794909.85	9795189.019	-237.63	-23.763	-252.686	-251.162	-250.034	-25.269	-25.116	-25.003	0.232	40291	1.000018	53	-89
7287	0.121	979490.655	9794906.55	9795188.99	-238.55	-23.855	-254.462	-252.853	-251.661	-25.446	-25.285	-25.166	0.232	40291	1.000018	53	-89
7288	0.121	979490.861	9794908.61	9795188.931	-240.6	-24.06	-254.995	-253.538	-252.459	-25.499	-25.354	-25.246	0.232	40291	1.000018	53	-89
7289	0.12	979491.296	9794912.96	9795188.897	-241.96	-24.196	-254.274	-253.028	-252.105	-25.427	-25.303	-25.21	0.232	40291	1.000018	53	-89
7290	0.12	979491.43	9794914.3	9795188.865	-241.28	-24.128	-253.345	-252.124	-251.22	-25.334	-25.212	-25.122	0.232	40291	1.000018	53	-89
7291	0.119	979490.745	9794907.45	9795188.821	-239.57	-23.957	-254.716	-253.183	-252.048	-25.472	-25.318	-25.205	0.232	40291	1.000018	53	-89
7292	0.117	979490.286	9794902.86	9795188.803	-238.24	-23.824	-255.527	-253.778	-252.482	-25.553	-25.378	-25.248	0.232	40291	1.000018	53	-89
7293	0.116	979489.692	9794896.92	9795188.756	-237.12	-23.712	-256.95	-254.943	-253.457	-25.695	-25.494	-25.346	0.232	40291	1.000018	53	-89
7260	0.114	979489.936	9794899.36	9795187.28	-240.74	-24.074	-257.843	-256.113	-254.831	-25.784	-25.611	-25.483	0.232	40291	1.000018	53	-89
7294	0.063	979490.121	9794901.21	9795190.186	-236.26	-23.626	-255.367	-253.434	-252.002	-25.537	-25.343	-25.2	0.232	40291	1.000018	53	-89
7295	0.06	979489.349	9794893.49	9795190.249	-231.82	-23.182	-255.353	-252.972	-251.208	-25.535	-25.297	-25.121	0.232	40291	1.000018	53	-89
7296	0.055	979490.214	9794902.14	9795190.291	-236.6	-23.66	-255.28	-253.389	-251.989	-25.528	-25.339	-25.199	0.232	40291	1.000018	53	-89
7297	0.052	979491.197	9794911.97	9795190.364	-239.8	-23.98	-253.785	-252.37	-251.322	-25.379	-25.237	-25.132	0.232	40291	1.000018	53	-89
7298	0.048	979490.564	9794905.64	9795190.327	-239.14	-23.914	-255.644	-253.974	-252.737	-25.564	-25.397	-25.274	0.232	40291	1.000018	53	-89
7299	0.044	979491.35	9794913.5	9795190.336	-240.22	-24.022	-253.493	-252.151	-251.156	-25.349	-25.215	-25.116	0.232	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

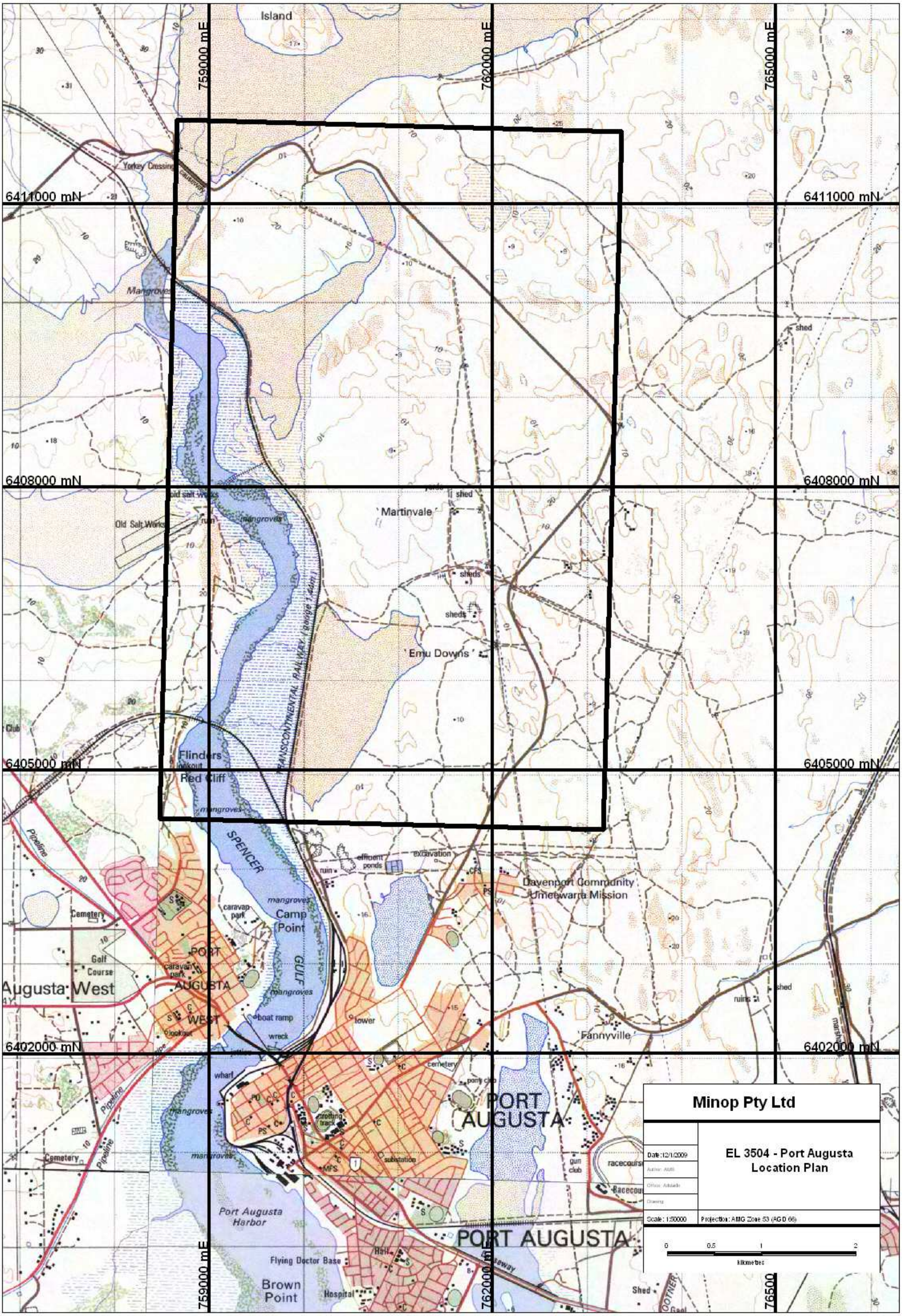
station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7300	0.041	979491.15	9794911.5	9795190.427	-240.54	-24.054	-254.449	-253.041	-251.998	-25.445	-25.304	-25.2	0.232	40291	1.000018	53	-89
7301	0.036	979491.393	9794913.93	9795190.52	-239.4	-23.94	-252.883	-251.52	-250.51	-25.288	-25.152	-25.051	0.232	40291	1.000018	53	-89
7302	0.033	979492.62	9794926.2	9795190.583	-243.57	-24.357	-251.117	-250.354	-249.789	-25.112	-25.035	-24.979	0.232	40291	1.000018	53	-89
7303	0.029	979493.664	9794936.64	9795190.584	-243.98	-24.398	-247.587	-247.221	-246.951	-24.759	-24.722	-24.695	0.232	40291	1.000018	53	-89
7304	0.016	979494.15	9794941.5	9795191.997	-243.08	-24.308	-245.765	-245.493	-245.292	-24.577	-24.549	-24.529	0.232	40291	1.000018	53	-89
7305	0.011	979492.766	9794927.66	9795191.953	-242.68	-24.268	-250.513	-249.721	-249.134	-25.051	-24.972	-24.913	0.232	40291	1.000018	53	-89
7306	0.007	979492.089	9794920.89	9795191.942	-242.41	-24.241	-252.785	-251.734	-250.956	-25.279	-25.173	-25.096	0.232	40291	1.000018	53	-89
7307	0.003	979491.295	9794912.95	9795191.921	-239.21	-23.921	-253.618	-252.159	-251.079	-25.362	-25.216	-25.108	0.232	40291	1.000018	53	-89
7308	-0.001	979491.88	9794918.8	9795191.923	-238.83	-23.883	-251.263	-250.006	-249.074	-25.126	-25.001	-24.907	0.232	40291	1.000018	53	-89
7309	-0.005	979491.097	9794910.97	9795191.776	-237.97	-23.797	-253.489	-251.918	-250.754	-25.349	-25.192	-25.075	0.232	40291	1.000018	53	-89
7310	-0.008	979490.928	9794909.28	9795191.779	-237.12	-23.712	-253.563	-251.898	-250.666	-25.356	-25.19	-25.067	0.232	40291	1.000018	53	-89
7311	-0.012	979490.65	9794906.5	9795191.791	-236.95	-23.695	-254.472	-252.699	-251.386	-25.447	-25.27	-25.139	0.232	40291	1.000018	53	-89
7312	-0.015	979490.802	9794908.02	9795191.753	-235.74	-23.574	-253.132	-251.372	-250.068	-25.313	-25.137	-25.007	0.232	40291	1.000018	53	-89
7313	-0.018	979490.72	9794907.2	9795191.718	-236.99	-23.699	-254.211	-252.467	-251.176	-25.421	-25.247	-25.118	0.232	40291	1.000018	53	-89
7294	-0.022	979490.137	9794901.37	9795190.186	-236.11	-23.611	-255.207	-253.274	-251.842	-25.521	-25.327	-25.184	0.232	40291	1.000018	53	-89
7314	-0.041	979489.833	9794898.33	9795190.177	-239.11	-23.911	-258.225	-256.291	-254.858	-25.822	-25.629	-25.486	0.232	40291	1.000018	53	-89
7315	-0.046	979489.715	9794897.15	9795190.15	-239.89	-23.989	-259.137	-257.19	-255.747	-25.914	-25.719	-25.575	0.232	40291	1.000018	53	-89
7316	-0.048	979490.563	9794905.63	9795190.1	-240.37	-24.037	-256.352	-254.735	-253.537	-25.635	-25.474	-25.354	0.232	40291	1.000018	53	-89
7317	-0.05	979489.976	9794899.76	9795190.069	-238.18	-23.818	-257.07	-255.158	-253.742	-25.707	-25.516	-25.374	0.232	40291	1.000018	53	-89
7318	-0.052	979490.296	9794902.96	9795190.019	-240.35	-24.035	-257.274	-255.561	-254.292	-25.727	-25.556	-25.429	0.232	40291	1.000018	53	-89
7319	-0.054	979490.396	9794903.96	9795191.507	-239.42	-23.942	-256.861	-255.097	-253.789	-25.686	-25.51	-25.379	0.232	40291	1.000018	53	-89
7320	-0.056	979490.884	9794908.84	9795191.505	-239.49	-23.949	-255.133	-253.549	-252.376	-25.513	-25.355	-25.238	0.232	40291	1.000018	53	-89
7321	-0.058	979490.972	9794909.72	9795191.565	-239.4	-23.94	-254.785	-253.229	-252.076	-25.478	-25.323	-25.208	0.232	40291	1.000018	53	-89
7322	-0.059	979490.533	9794905.33	9795191.593	-238.42	-23.842	-255.756	-254.002	-252.702	-25.576	-25.4	-25.27	0.232	40291	1.000018	53	-89
7323	-0.061	979489.661	9794896.61	9795191.648	-237.14	-23.714	-258.124	-256.001	-254.428	-25.812	-25.6	-25.443	0.232	40291	1.000018	53	-89
7314	-0.062	979489.825	9794898.25	9795190.177	-239.17	-23.917	-258.293	-256.358	-254.925	-25.829	-25.636	-25.493	0.232	40291	1.000018	53	-89
89	-0.066	979488.412	9794884.12	9795187.924	-235.79	-23.579	-260.437	-257.942	-256.095	-26.044	-25.794	-25.609	0.232	40291	1.000018	53	-89
-89	-0.066	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.232	40291	1.000018	53	-89
-89	0.003	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.186	40291	1.000018	53	-89
89	0.004	979488.418	9794884.18	9795187.924	-235.72	-23.572	-260.377	-257.882	-256.035	-26.038	-25.788	-25.603	0.186	40291	1.000018	53	-89
7324	0.031	979491.204	9794912.04	9795193.187	-237.71	-23.771	-253.45	-251.857	-250.677	-25.345	-25.186	-25.068	0.186	40291	1.000018	53	-89
7325	0.034	979491.518	9794915.18	9795193.204	-236.66	-23.666	-251.647	-250.13	-249.006	-25.165	-25.013	-24.901	0.186	40291	1.000018	53	-89
7326	0.037	979491.497	9794914.97	9795193.255	-237.79	-23.779	-252.467	-250.982	-249.882	-25.247	-25.098	-24.988	0.186	40291	1.000018	53	-89
7327	0.041	979492.254	9794922.54	9795193.301	-238.11	-23.811	-249.946	-248.749	-247.862	-24.995	-24.875	-24.786	0.186	40291	1.000018	53	-89
7328	0.043	979492.156	9794921.56	9795193.312	-238.11	-23.811	-250.302	-249.068	-248.154	-25.03	-24.907	-24.815	0.186	40291	1.000018	53	-89
7329	0.047	979491.987	9794919.87	9795193.368	-236.62	-23.662	-249.98	-248.627	-247.625	-24.998	-24.863	-24.762	0.186	40291	1.000018	53	-89
7330	0.05	979491.809	9794918.09	9795193.384	-238.22	-23.822	-251.658	-250.299	-249.292	-25.166	-25.03	-24.929	0.186	40291	1.000018	53	-89
7331	0.053	979491.964	9794919.64	9795193.43	-242.55	-24.255	-253.869	-252.723	-251.874	-25.387	-25.272	-25.187	0.186	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7332	0.056	979493.627	9794936.27	9795193.501	-243.92	-24.392	-248.745	-248.257	-247.896	-24.875	-24.826	-24.79	0.186	40291	1.000018	53	-89
7333	0.061	979494.632	9794946.32	9795193.499	-242.14	-24.214	-243.962	-243.777	-243.64	-24.396	-24.378	-24.364	0.186	40291	1.000018	53	-89
7334	0.065	979494.911	9794949.11	9795194.987	-241.07	-24.107	-242.808	-242.631	-242.5	-24.281	-24.263	-24.25	0.186	40291	1.000018	53	-89
7335	0.069	979493.936	9794939.36	9795194.933	-243.71	-24.371	-248.004	-247.569	-247.246	-24.8	-24.757	-24.725	0.186	40291	1.000018	53	-89
7336	0.072	979492.979	9794929.79	9795194.917	-242.42	-24.242	-250.648	-249.816	-249.199	-25.065	-24.982	-24.92	0.186	40291	1.000018	53	-89
7337	0.075	979492.564	9794925.64	9795194.874	-238.41	-23.841	-249.584	-248.453	-247.616	-24.958	-24.845	-24.762	0.186	40291	1.000018	53	-89
7338	0.078	979493.444	9794934.44	9795194.839	-238.73	-23.873	-246.576	-245.781	-245.192	-24.658	-24.578	-24.519	0.186	40291	1.000018	53	-89
7339	0.081	979493.102	9794931.02	9795194.751	-238.81	-23.881	-247.842	-246.929	-246.252	-24.784	-24.693	-24.625	0.186	40291	1.000018	53	-89
7340	0.084	979492.714	9794927.14	9795194.741	-238.83	-23.883	-249.253	-248.198	-247.416	-24.925	-24.82	-24.742	0.186	40291	1.000018	53	-89
7341	0.088	979492.253	9794922.53	9795194.711	-237.6	-23.76	-250.13	-248.862	-247.923	-25.013	-24.886	-24.792	0.186	40291	1.000018	53	-89
7342	0.092	979491.045	9794910.45	9795194.65	-234.5	-23.45	-252.517	-250.694	-249.345	-25.252	-25.069	-24.934	0.186	40291	1.000018	53	-89
7343	0.097	979491.505	9794915.05	9795194.627	-236.58	-23.658	-252.159	-250.582	-249.414	-25.216	-25.058	-24.941	0.186	40291	1.000018	53	-89
7324	0.101	979491.204	9794912.04	9795193.187	-237.72	-23.772	-253.458	-251.865	-250.686	-25.346	-25.187	-25.069	0.186	40291	1.000018	53	-89
7344	0.116	979490.492	9794904.92	9795193.103	-237.22	-23.722	-255.694	-253.825	-252.441	-25.569	-25.383	-25.244	0.186	40291	1.000018	53	-89
7345	0.118	979491.223	9794912.23	9795193.086	-238.66	-23.866	-253.954	-252.407	-251.261	-25.395	-25.241	-25.126	0.186	40291	1.000018	53	-89
7346	0.12	979491.395	9794913.95	9795193.045	-239.68	-23.968	-253.961	-252.516	-251.445	-25.396	-25.252	-25.144	0.186	40291	1.000018	53	-89
7347	0.122	979491.171	9794911.71	9795193.037	-239.94	-23.994	-254.937	-253.419	-252.294	-25.494	-25.342	-25.229	0.186	40291	1.000018	53	-89
7348	0.128	979491.5	9794915	9795194.516	-240.37	-24.037	-254.56	-253.124	-252.061	-25.456	-25.312	-25.206	0.186	40291	1.000018	53	-89
7349	0.13	979491.59	9794915.9	9795194.512	-239.03	-23.903	-253.376	-251.924	-250.849	-25.338	-25.192	-25.085	0.186	40291	1.000018	53	-89
7350	0.131	979491.363	9794913.63	9795194.554	-237.91	-23.791	-253.494	-251.917	-250.748	-25.349	-25.192	-25.075	0.186	40291	1.000018	53	-89
7351	0.132	979490.993	9794909.93	9795194.58	-236.85	-23.685	-254.173	-252.42	-251.122	-25.417	-25.242	-25.112	0.186	40291	1.000018	53	-89
7344	0.133	979490.493	9794904.93	9795193.103	-237.19	-23.719	-255.67	-253.8	-252.416	-25.567	-25.38	-25.242	0.186	40291	1.000018	53	-89
7352	0.126	979492.703	9794927.03	9795197.604	-237.79	-23.779	-249.67	-248.468	-247.577	-24.967	-24.847	-24.758	0.186	40291	1.000018	53	-89
7353	0.11	979491.329	9794913.29	9795196.118	-234.74	-23.474	-252.17	-250.407	-249.101	-25.217	-25.041	-24.91	0.186	40291	1.000018	53	-89
7354	0.107	979491.607	9794916.07	9795196.091	-234.58	-23.458	-251.047	-249.381	-248.146	-25.105	-24.938	-24.815	0.186	40291	1.000018	53	-89
7355	0.104	979492.782	9794927.82	9795196.209	-236.43	-23.643	-248.009	-246.837	-245.968	-24.801	-24.684	-24.597	0.186	40291	1.000018	53	-89
7356	0.09	979493.46	9794934.6	9795196.232	-239.25	-23.925	-247.363	-246.542	-245.934	-24.736	-24.654	-24.593	0.186	40291	1.000018	53	-89
7357	0.086	979493.944	9794939.44	9795196.281	-238.93	-23.893	-245.42	-244.763	-244.277	-24.542	-24.476	-24.428	0.186	40291	1.000018	53	-89
7358	0.083	979493.656	9794936.56	9795196.315	-237.86	-23.786	-245.793	-244.99	-244.395	-24.579	-24.499	-24.439	0.186	40291	1.000018	53	-89
7359	0.08	979493.324	9794933.24	9795196.362	-237.56	-23.756	-246.824	-245.887	-245.193	-24.682	-24.589	-24.519	0.186	40291	1.000018	53	-89
7360	0.077	979494.187	9794941.87	9795196.395	-241.52	-24.152	-246.232	-245.755	-245.402	-24.623	-24.576	-24.54	0.186	40291	1.000018	53	-89
7361	0.073	979494.268	9794942.68	9795196.417	-242.37	-24.237	-246.487	-246.07	-245.761	-24.649	-24.607	-24.576	0.186	40291	1.000018	53	-89
7362	0.068	979495.077	9794950.77	9795196.457	-240.31	-24.031	-242.255	-242.058	-241.912	-24.226	-24.206	-24.191	0.186	40291	1.000018	53	-89
7363	0.064	979495.145	9794951.45	9795197.943	-241.57	-24.157	-243.349	-243.169	-243.035	-24.335	-24.317	-24.303	0.186	40291	1.000018	53	-89
7364	0.059	979495.083	9794950.83	9795197.909	-240.94	-24.094	-243.166	-242.941	-242.774	-24.317	-24.294	-24.277	0.186	40291	1.000018	53	-89
7365	0.056	979494.714	9794947.14	9795197.86	-238.9	-23.89	-243.185	-242.752	-242.431	-24.318	-24.275	-24.243	0.186	40291	1.000018	53	-89
7366	0.05	979494.312	9794943.12	9795197.828	-238.84	-23.884	-244.587	-244.005	-243.574	-24.459	-24.401	-24.357	0.186	40291	1.000018	53	-89
7367	0.046	979494.793	9794947.93	9795197.788	-238.34	-23.834	-242.518	-242.095	-241.783	-24.252	-24.21	-24.178	0.186	40291	1.000018	53	-89

EL 3504 - GRAVITY DATA

station	etc_mgals	obsg84_mgals	obsg84_gu	gt_gu	fag_gu	fag_mgals	bg267_gu	bg240_gu	bg220_gu	bg267_mgals	bg240_mgals	bg220_mgals	closure_mgals	metersn	scale_factor	zone	base
7368	0.042	979495.077	9794950.77	9795197.752	-239.25	-23.925	-242.05	-241.766	-241.556	-24.205	-24.177	-24.156	0.186	40291	1.000018	53	-89
7369	0.038	979494.451	9794944.51	9795197.708	-239.42	-23.942	-244.414	-243.909	-243.534	-24.441	-24.391	-24.353	0.186	40291	1.000018	53	-89
7370	0.034	979493.438	9794934.38	9795197.664	-237.12	-23.712	-246.603	-245.643	-244.932	-24.66	-24.564	-24.493	0.186	40291	1.000018	53	-89
7371	0.029	979492.667	9794926.67	9795197.637	-235.68	-23.568	-248.468	-247.174	-246.216	-24.847	-24.717	-24.622	0.186	40291	1.000018	53	-89
7352	0.025	979492.712	9794927.12	9795197.604	-237.75	-23.775	-249.612	-248.411	-247.522	-24.961	-24.841	-24.752	0.186	40291	1.000018	53	-89
89	-0.033	979488.407	9794884.07	9795187.924	-235.83	-23.583	-260.487	-257.992	-256.145	-26.049	-25.799	-25.614	0.186	40291	1.000018	53	-89
-89	-0.033	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.186	40291	1.000018	53	-89
-89	-0.024	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.231	40291	1.000018	53	-89
89	-0.024	979488.415	9794884.15	9795187.924	-235.75	-23.575	-260.407	-257.912	-256.065	-26.041	-25.791	-25.606	0.231	40291	1.000018	53	-89
7372	0.142	979491.328	9794913.28	9795196.089	-236.02	-23.602	-252.979	-251.264	-249.993	-25.298	-25.126	-24.999	0.231	40291	1.000018	53	-89
7373	0.146	979490.401	9794904.01	9795196.026	-233.66	-23.366	-254.809	-252.669	-251.083	-25.481	-25.267	-25.108	0.231	40291	1.000018	53	-89
7374	0.146	979491.805	9794918.05	9795195.998	-237.49	-23.749	-252.148	-250.664	-249.564	-25.215	-25.066	-24.956	0.231	40291	1.000018	53	-89
7375	0.147	979491.57	9794915.7	9795195.962	-239.35	-23.935	-254.176	-252.675	-251.564	-25.418	-25.268	-25.156	0.231	40291	1.000018	53	-89
7376	0.147	979491.752	9794917.52	9795197.467	-237.57	-23.757	-252.927	-251.373	-250.222	-25.293	-25.137	-25.022	0.231	40291	1.000018	53	-89
7377	0.145	979491.123	9794911.23	9795197.494	-234.08	-23.408	-252.993	-251.079	-249.662	-25.299	-25.108	-24.966	0.231	40291	1.000018	53	-89
7378	0.143	979492.1	9794921	9795197.517	-236.2	-23.62	-250.815	-249.337	-248.242	-25.081	-24.934	-24.824	0.231	40291	1.000018	53	-89
7379	0.141	979491.587	9794915.87	9795197.508	-235	-23.5	-251.901	-250.191	-248.924	-25.19	-25.019	-24.892	0.231	40291	1.000018	53	-89
7372	0.139	979491.339	9794913.39	9795196.089	-235.92	-23.592	-252.869	-251.154	-249.883	-25.287	-25.115	-24.988	0.231	40291	1.000018	53	-89
7380	0.078	979490.88	9794908.8	9795192.988	-240.11	-24.011	-256.087	-254.471	-253.274	-25.609	-25.447	-25.327	0.231	40291	1.000018	53	-89
7381	0.073	979491.269	9794912.69	9795194.422	-240	-24	-255.125	-253.595	-252.461	-25.513	-25.36	-25.246	0.231	40291	1.000018	53	-89
7382	0.068	979491.585	9794915.85	9795195.928	-239.47	-23.947	-254.191	-252.702	-251.599	-25.419	-25.27	-25.16	0.231	40291	1.000018	53	-89
7383	0.061	979491.646	9794916.46	9795197.382	-239.06	-23.906	-254.234	-252.699	-251.562	-25.423	-25.27	-25.156	0.231	40291	1.000018	53	-89
7384	0.027	979490.03	9794900.3	9795184.291	-246.77	-24.677	-260.256	-258.891	-257.879	-26.026	-25.889	-25.788	0.231	40291	1.000018	53	-89
7385	0.021	979489.775	9794897.75	9795184.237	-246.95	-24.695	-261.278	-259.828	-258.754	-26.128	-25.983	-25.875	0.231	40291	1.000018	53	-89
7386	0.015	979489.203	9794892.03	9795184.197	-248.93	-24.893	-264.604	-263.019	-261.844	-26.46	-26.302	-26.184	0.231	40291	1.000018	53	-89
7387	0.009	979488.098	9794880.98	9795185.688	-242.75	-24.275	-265.203	-262.931	-261.248	-26.52	-26.293	-26.125	0.231	40291	1.000018	53	-89
7388	0.002	979489.23	9794892.3	9795185.718	-243.92	-24.392	-261.861	-260.046	-258.701	-26.186	-26.005	-25.87	0.231	40291	1.000018	53	-89
7389	-0.005	979489.492	9794894.92	9795185.771	-242.84	-24.284	-260.243	-258.482	-257.178	-26.024	-25.848	-25.718	0.231	40291	1.000018	53	-89
7197	-0.032	979488.487	9794884.87	9795178.299	-253.21	-25.321	-267.782	-266.307	-265.215	-26.778	-26.631	-26.521	0.231	40291	1.000018	53	-89
7298	-0.068	979490.593	9794905.93	9795190.327	-238.84	-23.884	-255.349	-253.678	-252.44	-25.535	-25.368	-25.244	0.231	40291	1.000018	53	-89
7063	-0.087	979486.59	9794865.9	9795166.542	-261.14	-26.114	-275.458	-274.009	-272.936	-27.546	-27.401	-27.294	0.231	40291	1.000018	53	-89
7045	-0.088	979485.218	9794852.18	9795163.587	-261.29	-26.129	-279.459	-277.621	-276.26	-27.946	-27.762	-27.626	0.231	40291	1.000018	53	-89
89	-0.087	979488.411	9794884.11	9795187.924	-235.79	-23.579	-260.447	-257.952	-256.105	-26.045	-25.795	-25.61	0.231	40291	1.000018	53	-89
-89	-0.087	979488.412	9794884.12	9795187.923	-235.77	-23.577	-260.436	-257.942	-256.094	-26.044	-25.794	-25.609	0.231	40291	1.000018	53	-89


759000 mE
762000 mE
765000 mE
6411000 mN
6408000 mN
6405000 mN
6402000 mN
Island
Yorkey Crossing
Mangroves
Old Salt Works
'Martinvale'
'Emu Downs'
TRANSCONTINENTAL RAILWAY
SPENCER
GULF
Flinders
Red Cliff
Camp Point
Davenport Community
Umeewarra Mission
effluent ponds
excavation
PORT AUGUSTA WEST
Augusta West
Golf Course
Cemetery
'Fannyville'
PORT AUGUSTA
Port Augusta Harbor
Flying Doctor Base
Brown Point
Hospital
racecourse
Minop Pty Ltd
Date: 12/1/2009
EL 3504 - Port Augusta
Location Plan
Scale: 1:50000
Projection: AMG Zone 53 (AGD 66)
0
0.5
1
2
kilometres

759000 mE

762000 mE

6411000 mN

6408000 mN

6405000 mN

Yorkey Crossing

causeway

Mangroves

old salt works

Old Salt Works

ruin

mangroves

'Martinvale'

yards

shed

sheds

'Emu Downs'

TRANSCONTINENTAL RAILWAY (gauge 1435)

Flinders lookout

Red Cliff

mangroves

SPENCER GULF

effluent ponds

excavation

ruin

CFS

PS

Davenport Community Umeewarra Mission

Gravity Station

caravan park

Camp Point

mangroves

PORT AUGUSTA WEST

caravan park

mangroves

boat ramp

tower

Golf course

Minop Pty Ltd

EL 3540 - Port Augusta Exploration Activity

Date: 12/1/2009

Scale: 1:25000

Projection: AMG Zone 53 (AGD 66)

0 250 500 1000 metres

FIGURE 2

6412000 mN
760000 mE
762000 mE
6410000 mN
6408000 mN
6406000 mN
Crossing
causeway
groves
old salt works
Works
ruin
mangroves
yards
shed
'Martinvale'
sheds
sheds
'Emu Downs'
TRANSCONTINENTAL RAILWAY (gauge 1.44m)
Flinders
lookout
Red Cliff
mangroves
SPENC
effluent
excavation

Minop Pty Ltd	
	EL 3504 - Port Augusta Gravity Station Locations
Date: 12/1/2009	
Author: AMB	
Office: Adelaide	
Drawing:	
Scale: 1:10000	Projection: AMG Zone 53 (AGD 66)

0 125 250 500
metres

MINOP PTY LTD

EL 3504 "PORT AUGUSTA"
Annual and Final Report for the Period 18th January 2009 to 17th January 2010.

A.M. Brewer
July 2010

SUMMARY

Exploration Licence 3504, "Port Augusta" covering an area of 27km^2 lies north of Port Augusta on the upper Spencer Gulf in South Australia. The area is held by Minop Pty Ltd.

This report describes activities conducted on the tenement area during the Fourth Annual Period 18th January 2009 to 17th January 2010.

Exploration during the period has consisted of a review of seismic geophysical data completed by Torrens Energy over the area which indicates basement being at depths of approximately 1000 metres. As a result the tenement has not been renewed.

Expenditure for the period totalled $11,259.

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Digital File List

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LIST OF FIGURES:

1.0 INTRODUCTION

This report details all exploration work undertaken on Exploration Licence 3504, "Port Augusta". This report describes activities conducted on the tenement area during the Fourth and Final Annual Period 18th January 2009 to 17th January 2010.

Exploration Licence 3504, "Port Augusta" covering an area of 27 km^2, lies on northern Spencer Gulf and is situated to the north of Port Augusta in the eastern Gawler Craton of South Australia (Figure 1). Access is via the sealed Adelaide-Port Augusta road and then via a series of sealed and unsealed roads and dirt farm tracks.

EL 3504 is situated on the eastern Eyre Peninsula and lies within the Port Augusta (SI53-4) 1:250,000 map sheet.

The terrain is dominated by generally open saltbush covered plains, dune fields and samphire/saltbush covered swampland surrounding the northern extension of Spencer Gulf.

Exploration work during the reporting period has comprised continuing review of previous geophysical data including new seismic information collected by Torrens Energy.

The principal exploration targets for the area are IOCG copper-gold mineralisation and gold vein style mineralisation associated with fault structures.

2.0 TENURE

Exploration Licence 3504 (Port Augusta) was granted to Minop Pty Ltd on the 18th January 2006. The tenement covers an area of approximately 53 km^2 (Figure1). A renewal with a reduction in area to approximately 35 km^2 was granted in January 2008, and a further renewal with a reduction in area to approximately 27 km^2 was completed in January 2009.

3.0 PREVIOUS EXPLORATION

As there is no basement outcrop within the tenement area, all previous exploration has been strongly controlled by geophysics. However, no drilling of geophysical basement targets under cover has been completed in the area of the tenement.

The project area has been subject to limited exploration by various companies over the past few decades. Exploration has been carried out for a range of commodities including petroleum, gold, copper-gold and diamonds.

4.0 REGIONAL GEOLOGY

The Port Augusta exploration licence covers a section of the eastern portion of the southern Gawler Craton, and covers a section of the interpreted Torrens Hinge zone which separates the flat lying Neo-Proterozoic sequence of the Stuart Shelf from the more strongly deformed sediments of the Neo-Proterozoic Adelaide rift sequences.

There is no previous exploration drilling in the area and the nearest outcrop of Neo-Proterozoic lies to the west of the tenement area. Depth to basement in the area is unknown. An indeterminate thickness of Tertiary to Recent sediments comprising the Pirie Basin and younger sequences covers the area.

Extensive dune fields and playa lake sediments occur as surficial deposits associated with the upper reaches of Spencer Gulf.

5.0 EXPLORATION ACTIVITIES

Seismic data acquired by Torrens Energy was assessed and indicates depth to basement in the tenement area to be well in excess of 1000 metres, putting potential target lithologies beyond potential economic depth limits. As a result the tenement has been relinquished in full.

6.0 EXPENDITURE

Expenditure over the licence area totalled $60,970 during the reporting period, and is broken down by expense in the table below: –

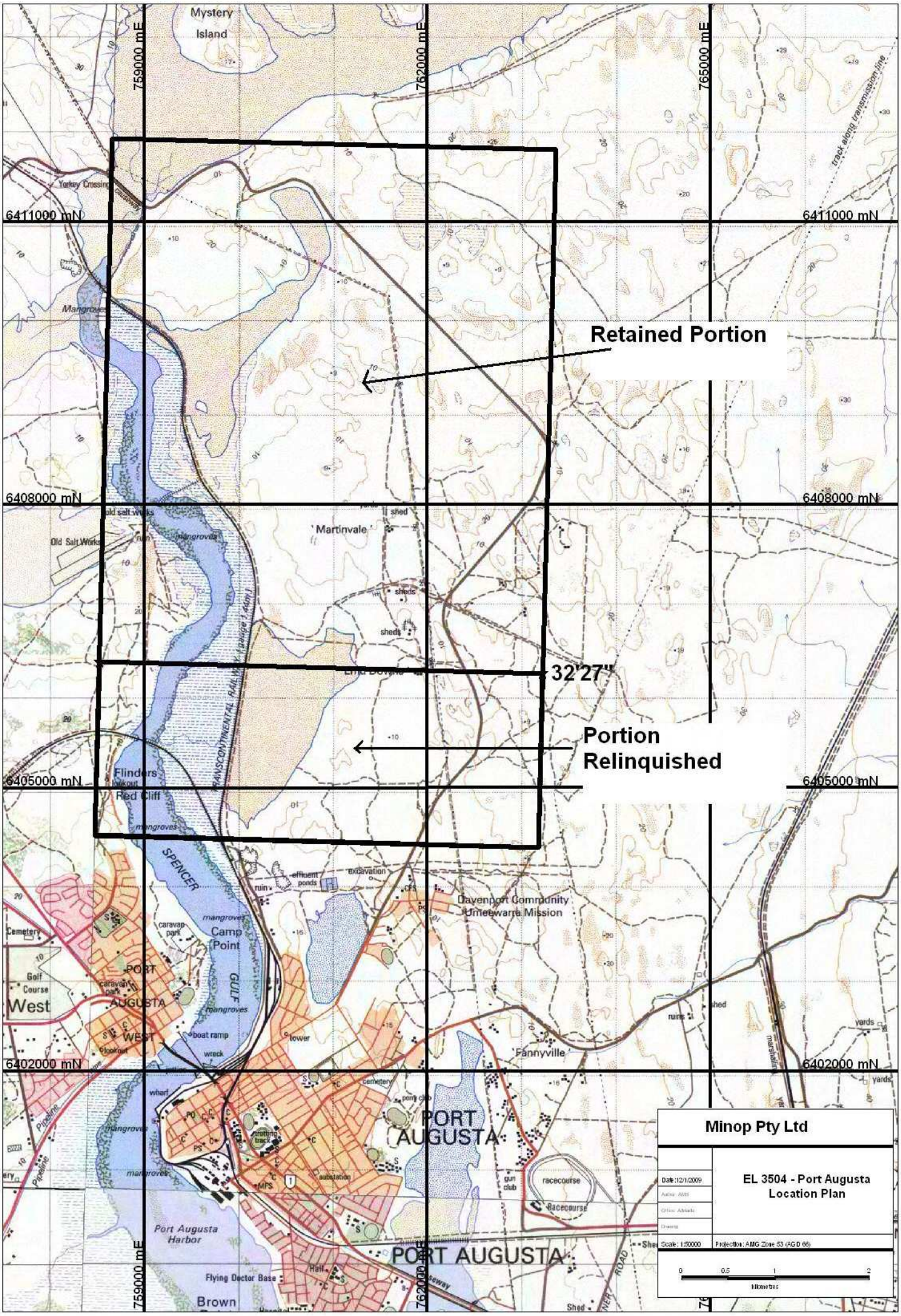
Staff Salaries & wages	$5,200
Contract and Consulting Geologists, Field Assistants	$2,400
Safety, Health and Environment	$0
Ground geophysical surveys, Consultants and Interpretation	$0
Drilling	$0
Drilling Consumables	$0
Assaying	$0
Communications	$50
Equipment Hire	$0
Printing and Digital Data	$80
Tenure Maintenance	$0
Field Expenses	$160
Travel & accommodation	$600
Vehicle hire/fuel/maintenance	$1,300
Administration overheads	$1,469
TOTAL	**$11,259**

7.0 CONCLUSIONS AND RECOMMENDATIONS

EL 3504 covers a portion of the eastern Eyre Peninsula, an area considered prospective for IOCG style mineralization associated with the Torrens Hinge Zone and gold mineralization in structures related to faulting within this zone.

No outcrop occurs in the area and previous drilling has been for engineering purposes only. No clear indication of basement depth is available, but Neo-Proterozoic sediments occur immediately to the west of the area.

Recently acquired seismic data indicates that basement is at considerable depth and no further exploration is warranted on the area.


Retained Portion
32'27"
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Martinvale
Flinders
Red Cliff
Camp Point
PORT AUGUSTA West
WEST
PORT AUGUSTA
Port Augusta Harbor
Davenport Community Umeewarra Mission
Fannyville
Minop Pty Ltd
EL 3504 - Port Augusta Location Plan
Date: 12/1/2009
Scale: 1:50000
Projection: AMG Zone 53 (AGD 66)
Kilometres