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EL 3921

MOUNT JAMES

ANNUAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 3/9/2007 TO 2/9/2010

Submitted by
Minotaur Exploration Ltd
2010

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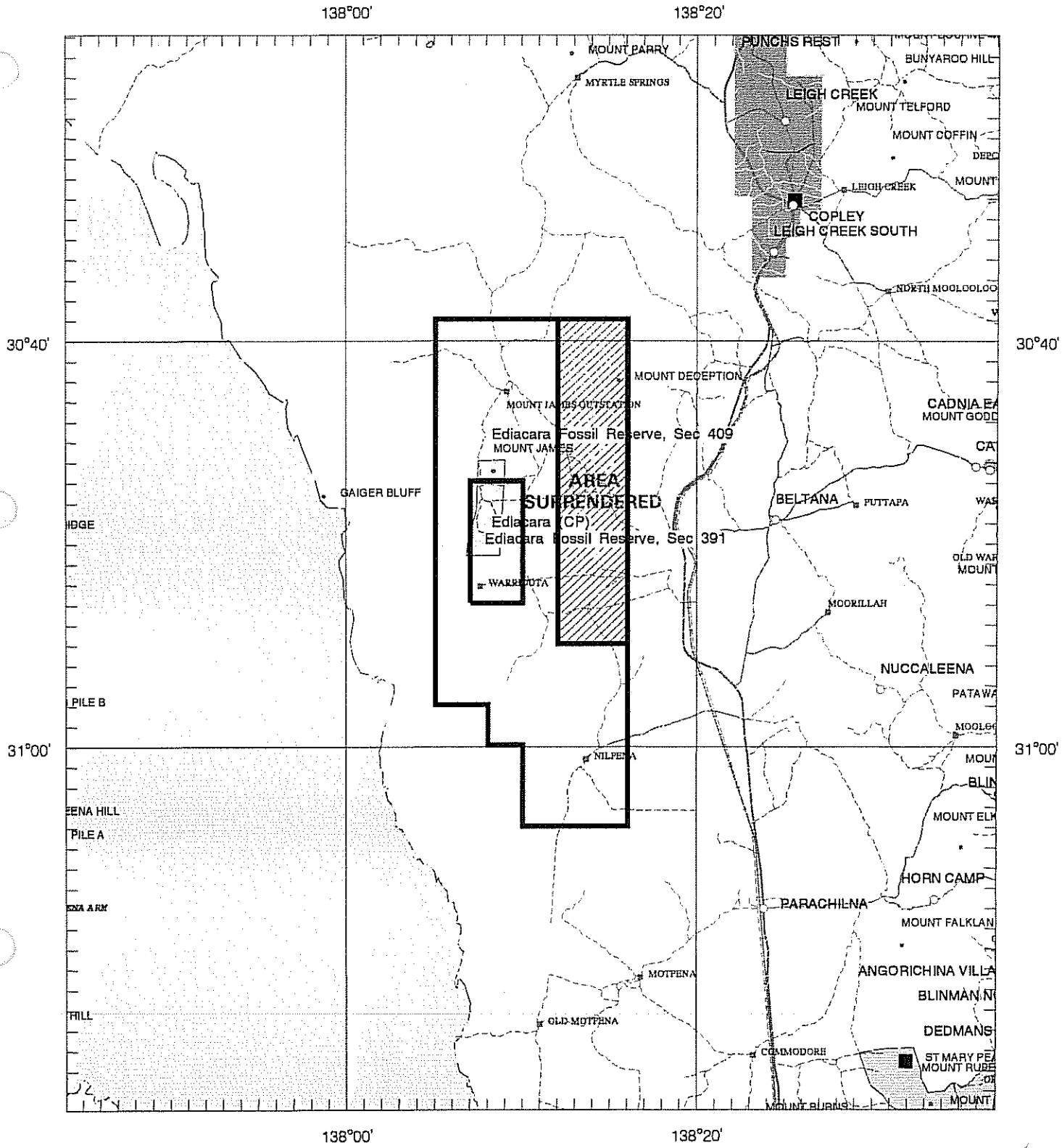
Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

APPLICANT : **MINOTAUR OPERATIONS PTY LTD**

FILE REF : **225/06** TYPE : **MINERAL ONLY** AREA : **492** km² (approx.)

1:250000 MAPSHEETS : **COPLEY PARACHILNA**

LOCALITY : **MOUNT JAMES AREA - Approximately 40 km southwest of Leigh Creek**

DATE GRANTED : **03-Sep-2007** DATE EXPIRED : **02-Sep-2009** EL NO : **3921**

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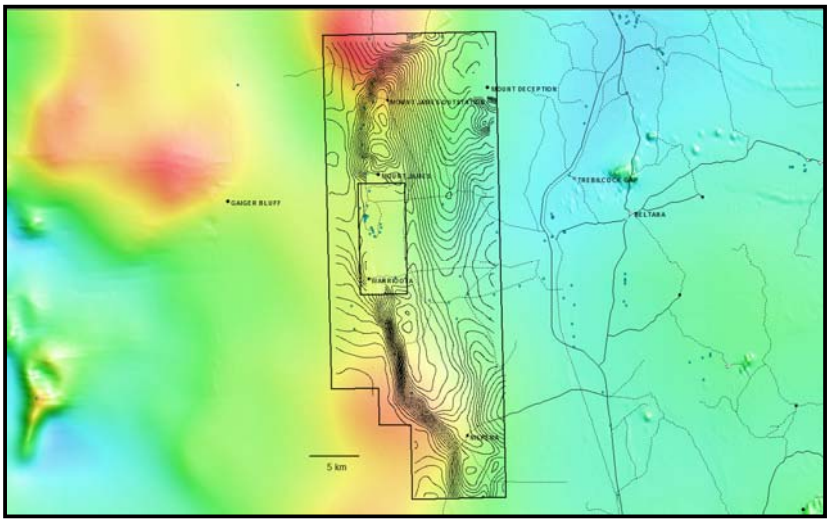
ANNUAL TECHNICAL REPORT

EL 3921 MT JAMES, SOUTH AUSTRALIA

FOR YEAR ENDING 2nd SEPTEMBER 2008



J.R. Hart, A.D. Thompson and R.B. Flint

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ANNUAL TECHNICAL REPORT

EL 3921 MT JAMES, SOUTH AUSTRALIA

FOR YEAR ENDING 2nd SEPTEMBER 2008

J.R. Hart, A.D. Thompson and R.B. Flint

November 2008

SUMMARY

A gravity survey was undertaken over the entire tenement and observations were collected at a station spacing of 1 km x 1 km and, in addition, at 500 m x 500 m in select areas. Closely spaced gravity data were also collected along two E–W traverses. Data was collected from a total of 1129 gravity stations.

The new gravity data clearly define a 30 km long, curvilinear positive anomaly which has an amplitude of 7–8 mgals. 2D modeling reveals a range of theoretical block configurations including that dense lithologies of ~3.0 g/cc may occur at depths of only 100–200 m below ground level. The lithological nature of this material is not known, but may represent Precambrian crystalline basement, Neoproterozoic basalt (Wooltana Volcanics equivalent) or Neoproterozoic limestone and dolomite.

The positive gravity anomaly is interpreted as reflecting a high-angle reverse thrust (dipping eastwards) which has uplifted dense lithologies to a high structural level. This thrust is considered to have been a favourable conduit for mineralizing Pb- and Zn-rich fluids.

MAP REFERENCE: 1:250 000 COPLEY (SH 54-9) and PARACHILNA (SH 54-13)
MAP REFERENCE: 1:100 000 Copley (6536) and Parachilna (6535)
DISTRIBUTION: PIRSA
MINOTAUR EXPLORATION LTD

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1. INTRODUCTION

EL 3921 (Mt James) is situated ~30 km SW of Leigh Creek on the very eastern margin of the Gawler Craton (Figure 1). The tenement covers 681 km^2 and was granted on 3rd September 2007 initially for 1 year. The report covers the period from 3/9/07 to 2/09/08 and is the first annual report for the tenement.

2. TENURE

EL 3921 was granted to Minotaur Operations Pty Ltd in 2007 for an initial period of 1 year. The tenement completely surrounds EL 3384 (Ediacara) which is the subject of a joint venture between Minotaur Operations Pty Ltd and Perilya Ltd and which is being managed by Perilya Ltd.

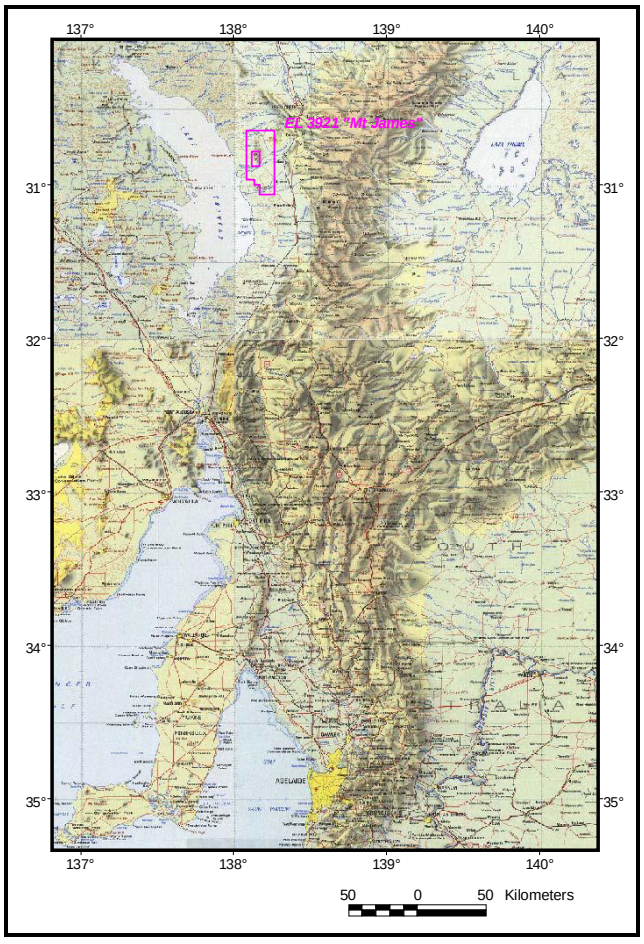

Figure 1: Location plan for EL 3921 (Mt James)

3. REGIONAL GEOLOGY

The Exploration Licence is located within the northern Flinders Ranges, South Australia. The northern Flinders Ranges comprises Neoroterozoic–Cambrian age sediments that accumulated in a continental rift basin (Adelaide Geosyncline) between the Archaean to Mesoproterozoic Gawler and Curnamona Cratons. Within EL 3921, exposed units of the Adelaide Geosyncline are predominantly calcareous sediments of the Wonoka Formation and quartzite of the Pound Quartzite (Figure 2).

Zinc, lead and copper mineralisation is found throughout the Adelaide Geosyncline generally associated with Cambrian marine shelf-carbonate sediments and environments. Deformation and folding during the Cambrian–Ordovician Delamerian Orogeny resulted in mineralizing fluids, rich in Zn, Pb and Cu, being focused along particular faults and within favourable stratigraphic formations.

Ediacara EL 3384 (Ediacara) covers a historic lead-silver-copper mineral field, located 25 km west of the Beltana. It is situated within a synclinal basin of Early Cambrian carbonate and siliclastic rocks. Base metal mineralisation is structurally controlled associated with brecciation along with limonite, manganese and silica alteration with minor hematite alteration. The Ediacara historical workings contain the largest known occurrence of Pb and Zn sulphides within the Flinders Ranges. Best intersections from historical drill holes include;

- 6.6 m @10.2% Pb from 27.4 m (Hole T48),
- 6.1 m @10.25% Pb from 7.6 m (Hole T31).

The mineralisation is interpreted to be Irish-type, consisting of structurally controlled strata-bound lodes in the lowermost units of the Woodendinna Dolomite adjacent to major structures. Numerous barite occurrences also occur within the region. Mineralisation is closely associated with the faulted boundary between the Gawler Craton and Adelaide Geosyncline (Figure 3).

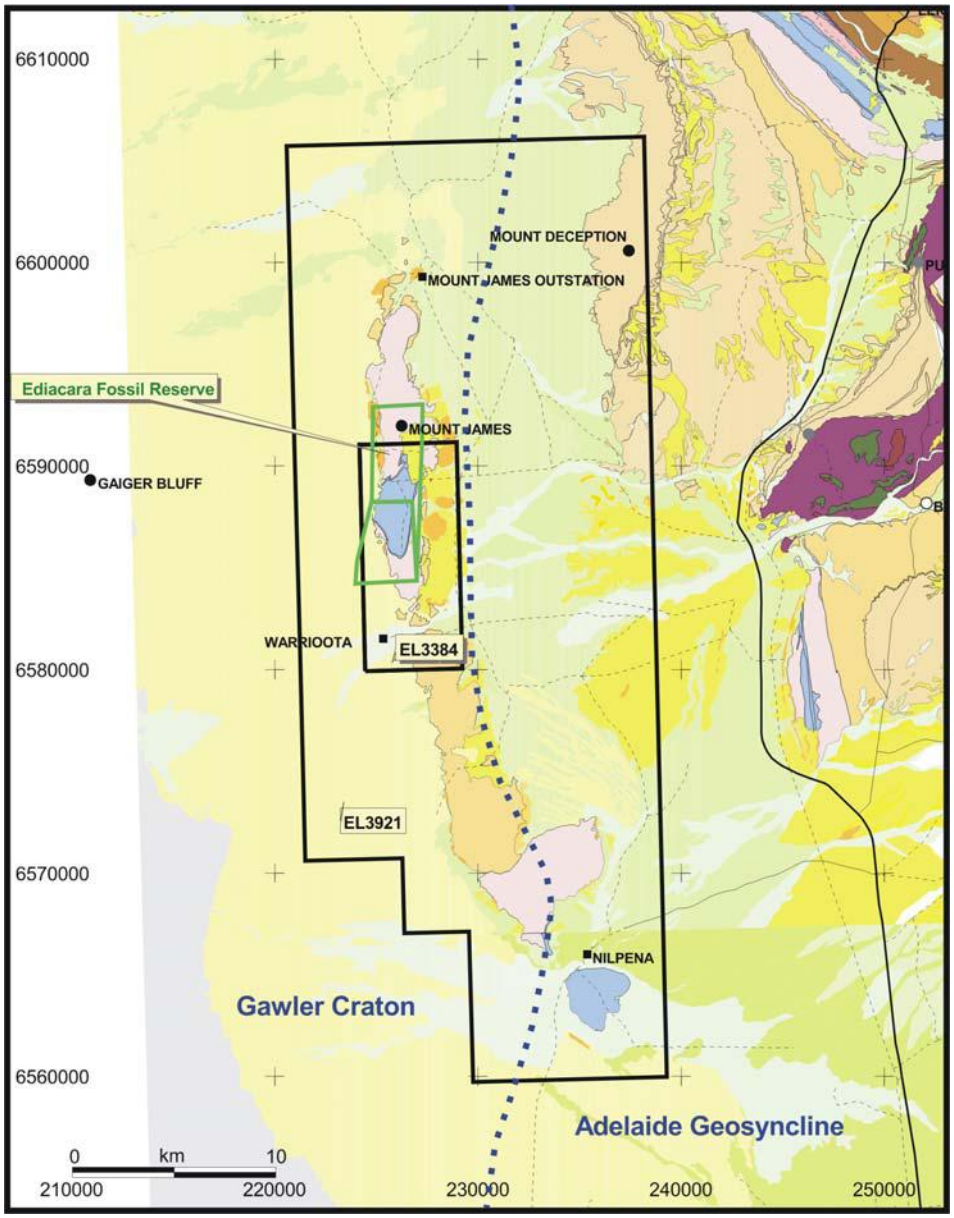

Figure 2: Outcrop geology for EL 3921 (Mt James)

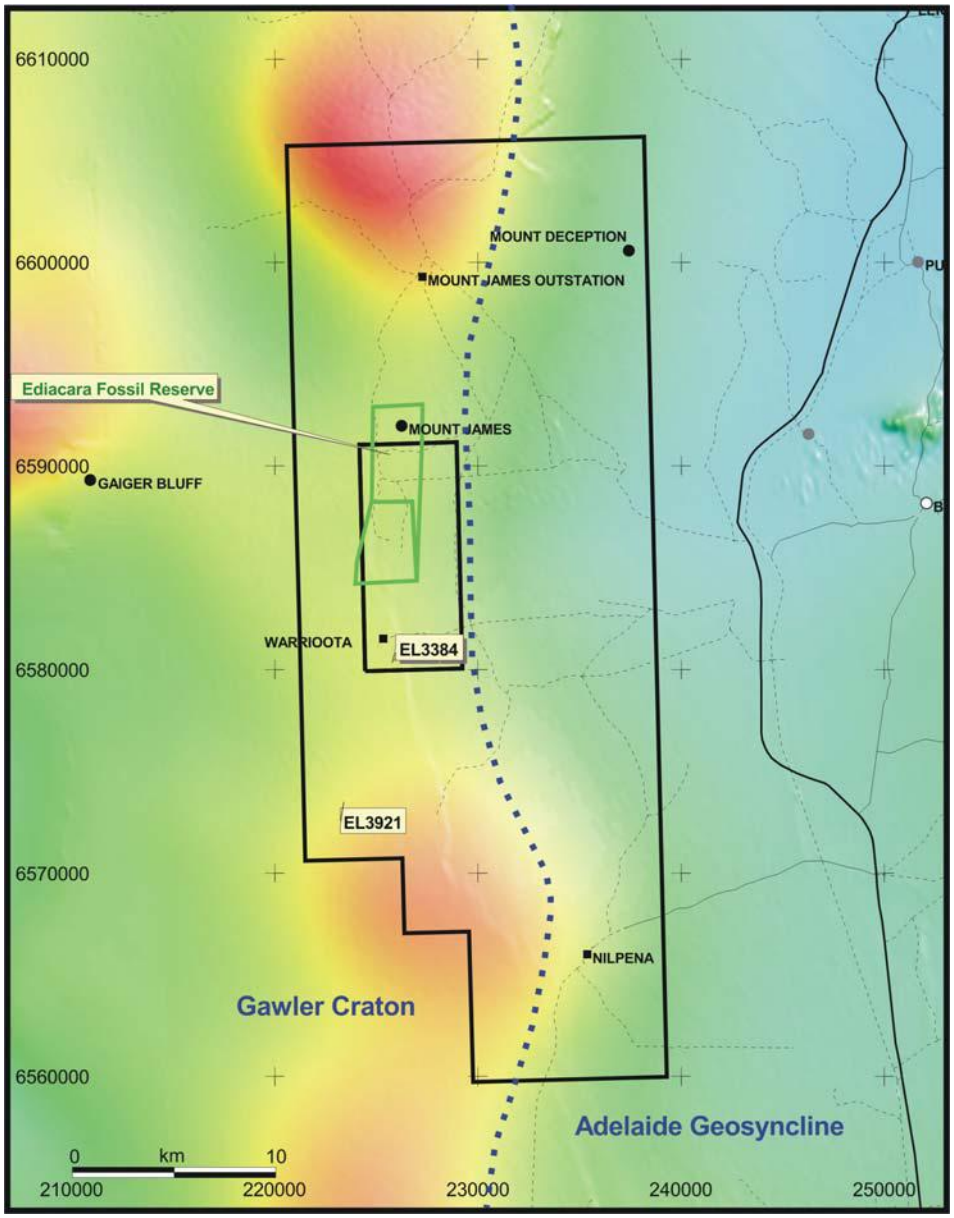

Figure 3: Regional magnetic image for EL 3921 (Mt James)

4. WORK COMPLETED

4.1. GRAVITY SURVEY

The historical gravity coverage for the tenement was exceedingly poor and restricted to a series of broadly E–W lines for a select portion of the tenement. The central and southern portions of the tenement had been very poorly covered (Figure 4).

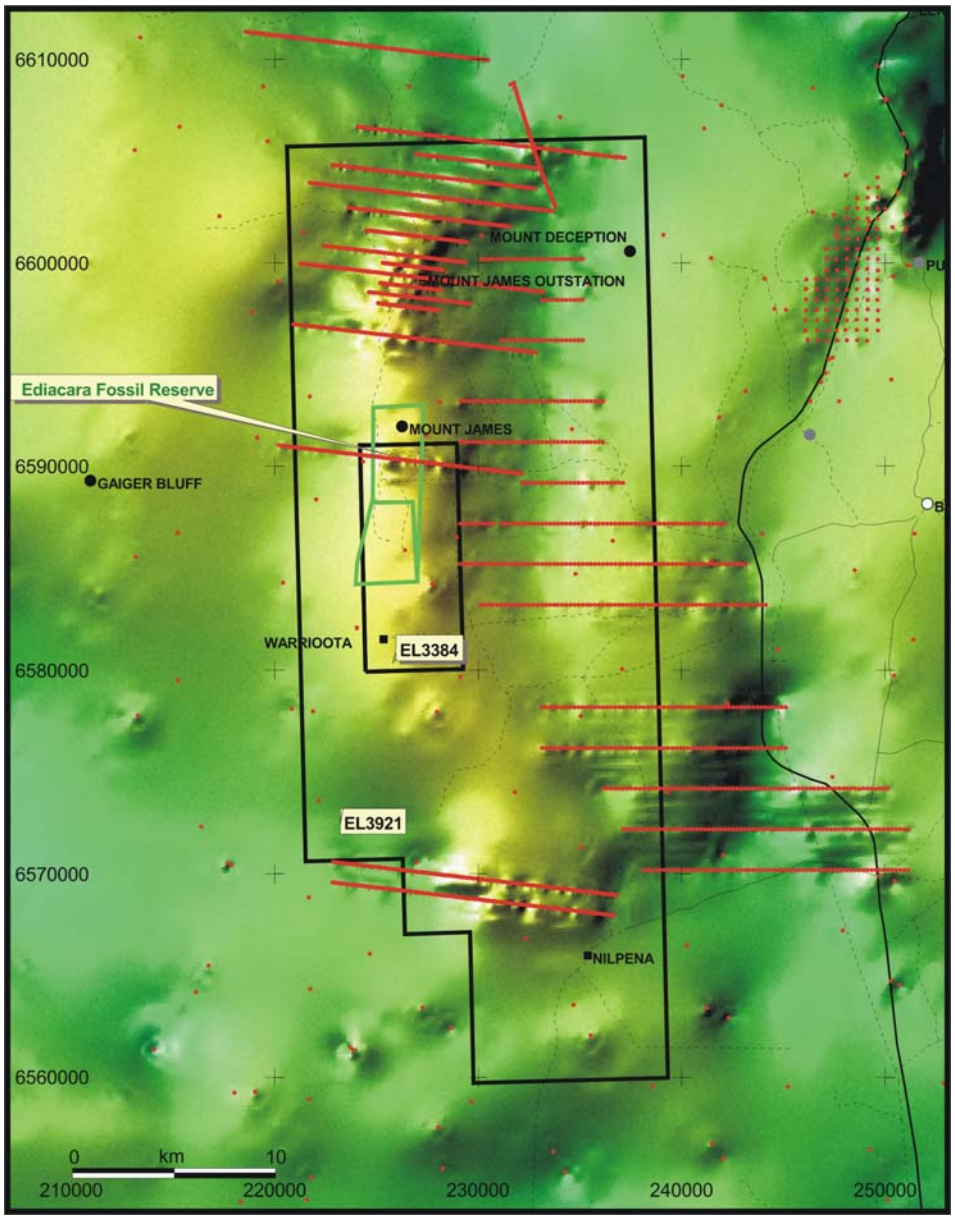

Figure 4: Historical gravity image and stations for EL 3921 (Mt James)

Haines Surveys conducted a gravity survey, on behalf of Minotaur Exploration, in the Mt James tenement during October and November 2007. The regional survey was designed to cover the entire tenement and observations were collected at a station spacing of 1 km x 1 km over most of the tenement and 500 m x 500 m in the southern part of the tenement. Closely spaced gravity data were collected from two E–W traverses. A total of 1129 gravity stations were collected (Figure 5).

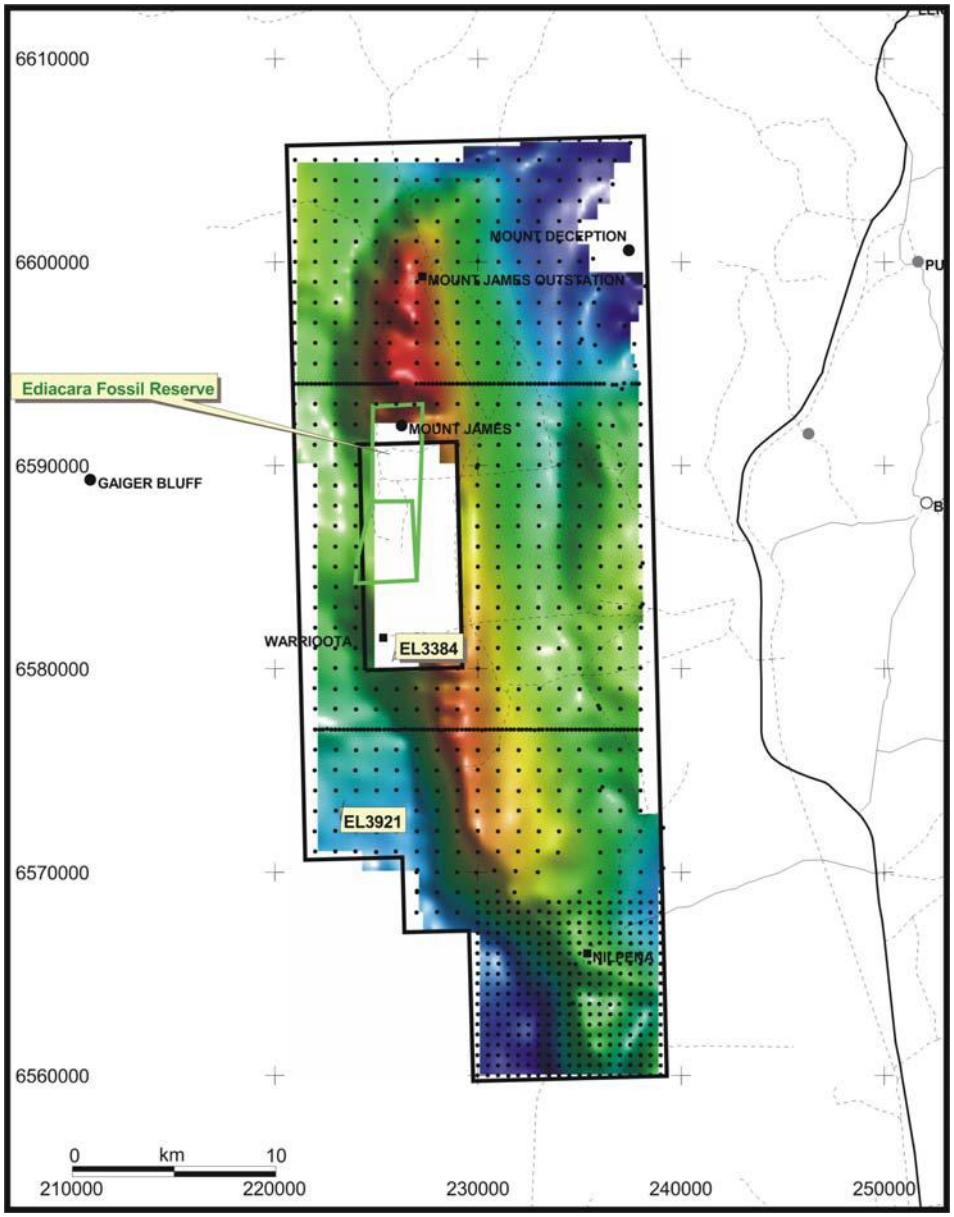

Figure 5: New Bouguer gravity image and Minotaur gravity stations for EL 3921

The new gravity data clearly define a 30 km long, curvilinear positive anomaly which has an amplitude of 7–8 mgals (Figures 5–6). A very strong correlation is apparent between the gravity data and topography as illustrated by the Digital Elevation Image for region between Mount James and Nilpena Homestead (Figure 7).

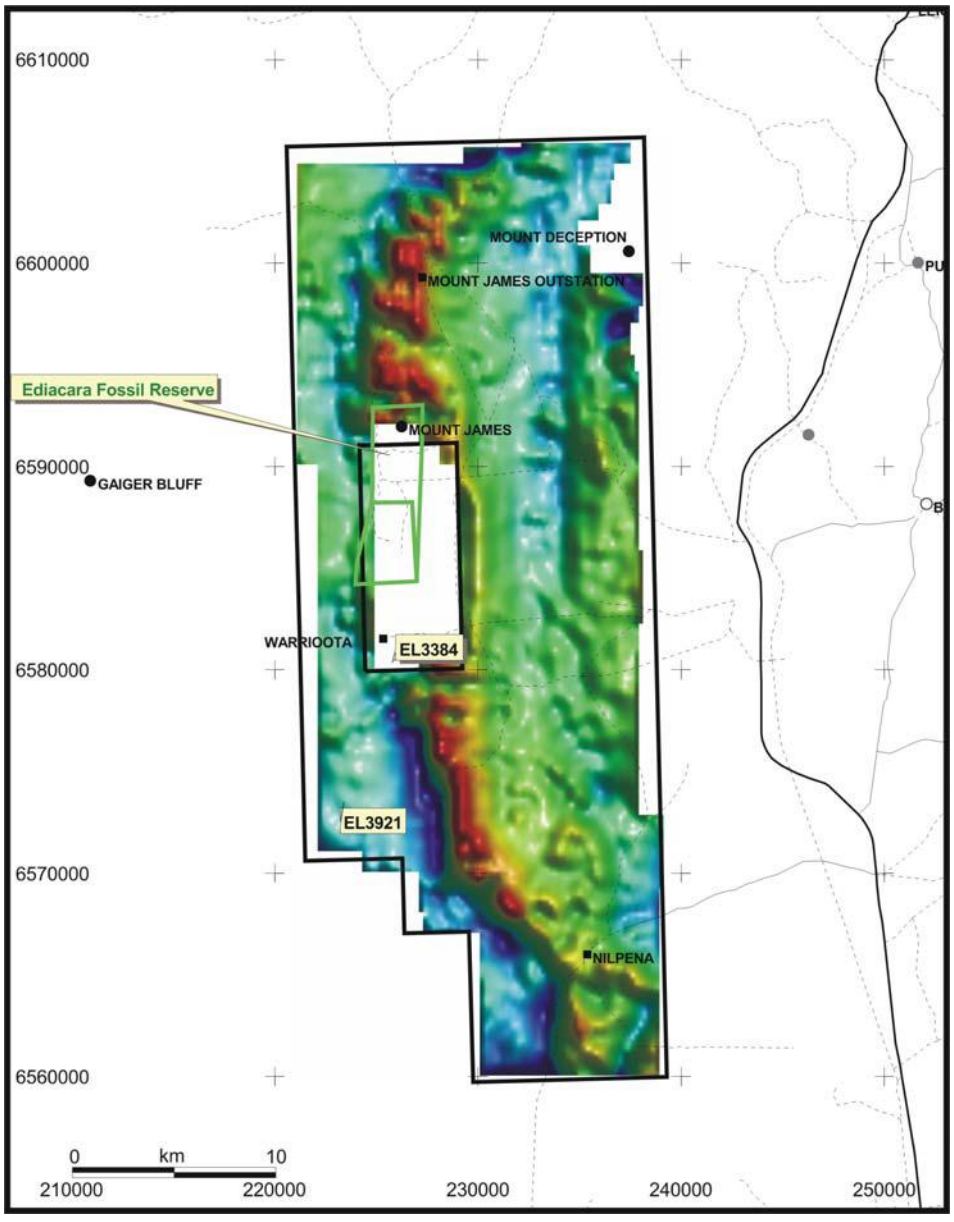

Figure 6: 1VD gravity image for EL 3921 (Mt James)

The arcuate nature of the positive gravity anomaly is interpreted as a high-angle reverse thrust (dipping eastwards) formed during the Cambrian–Ordovician Delamerian Orogeny probably from re-activation of pre-existing Neoproterozoic extensional fault that originally controlled the distribution of sediments and facies within the margin of the Adelaide Geosyncline.

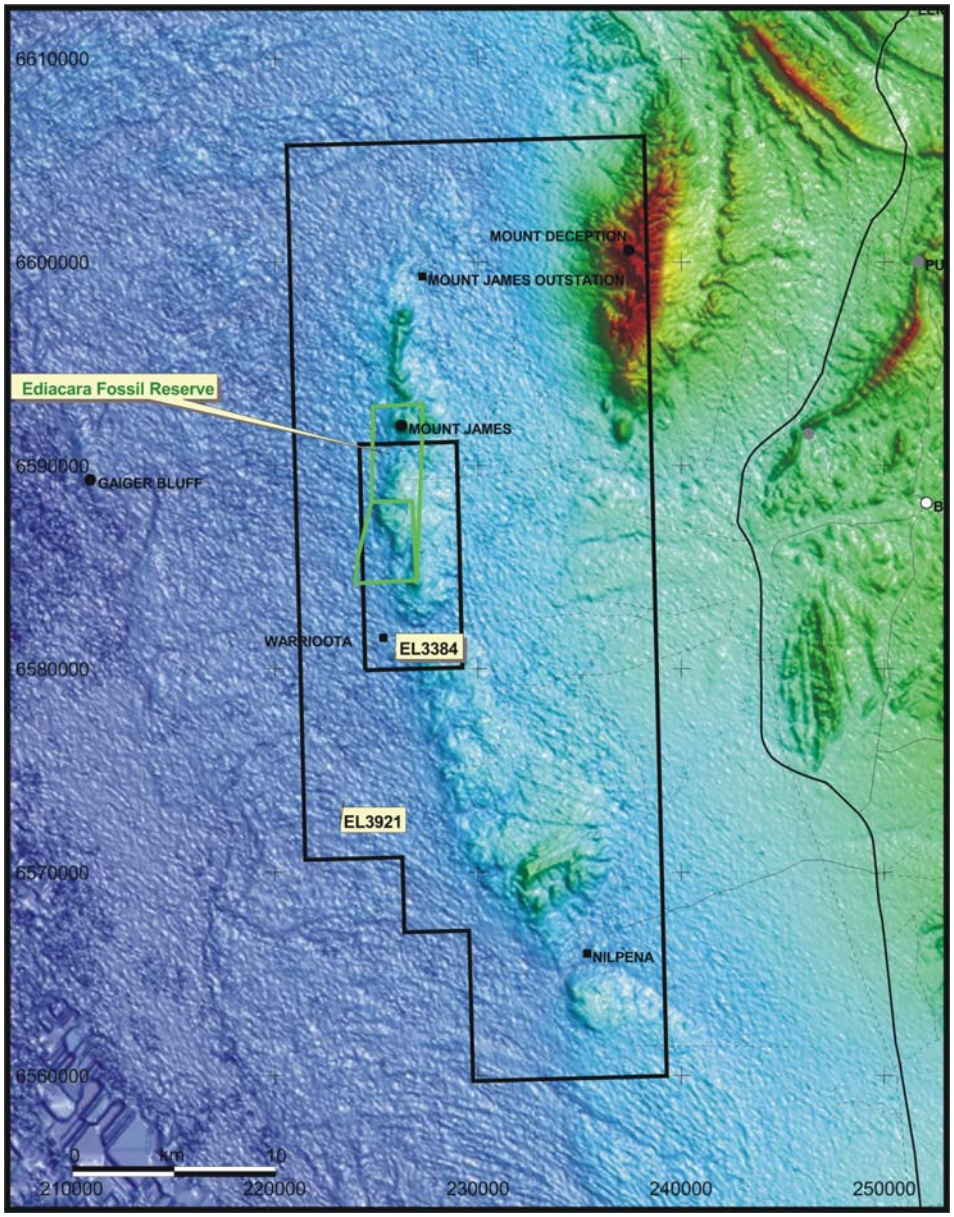

Figure 7: Digital elevation image (DEM) for EL 3921 (Mt James)

2D modeling of the newly acquired gravity data was undertaken along profile 6594000mN in order to ascertain possible depths, orientation and nature of body causing the regional positive gravity anomaly (Figures 8–9).

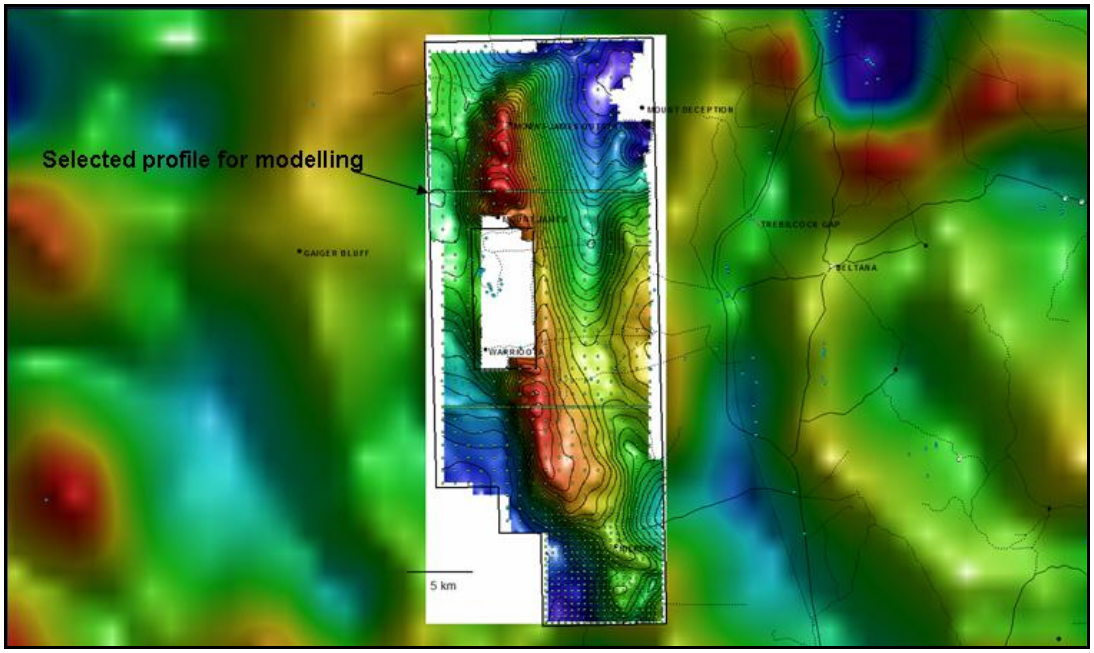

Figure 8: Gravity line (6594000mN) utilized for detailed 2D modeling over gravity image

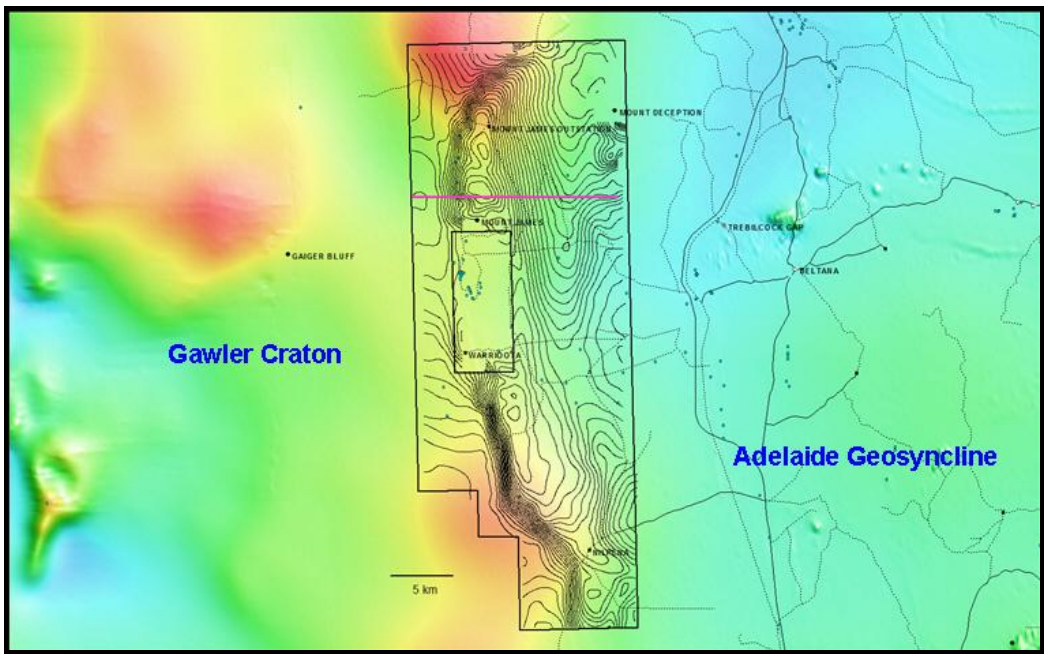

Figure 9: Gravity line (6594000mN) utilized for detailed 2D modeling, gravity contours over TMI image

As there are no previous drill holes of any significant depth extent to constrain the gravity modeling, considerable variation exists in the theoretical distribution of blocks depending upon the perceived appropriateness of various geological scenarios (Figures 10–13). The general profile indicates an E-dipping series of blocks and/or surfaces with reasonable fit despite the great variation in theoretical configurations. However, a misfit exists between observed and computed profiles for the western portions and is probably due to presence of below-average density Tertiary sediments west of the faulted west margin of the ranges.

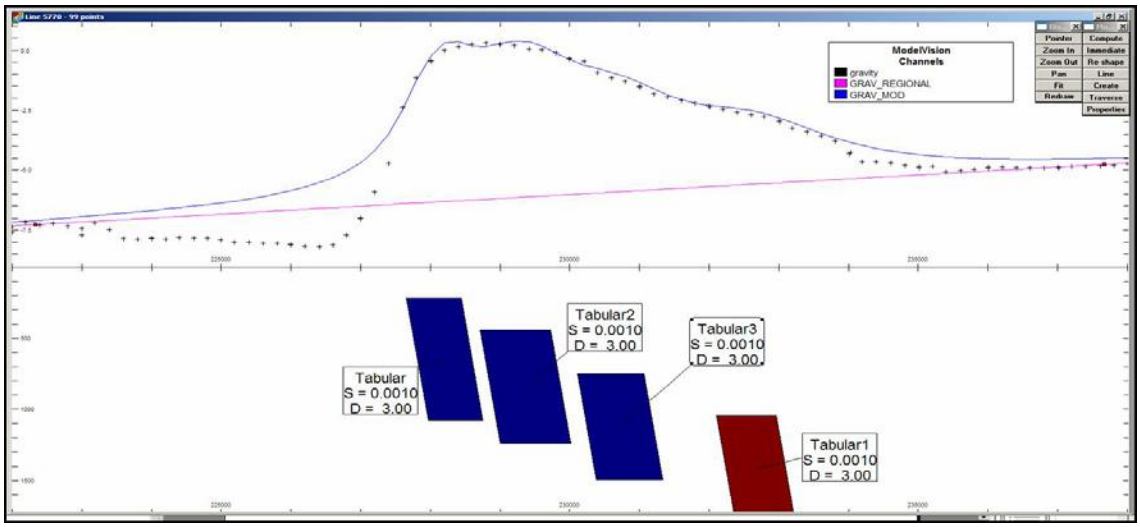

Figure 10: Theoretical block model 1 (shallow)

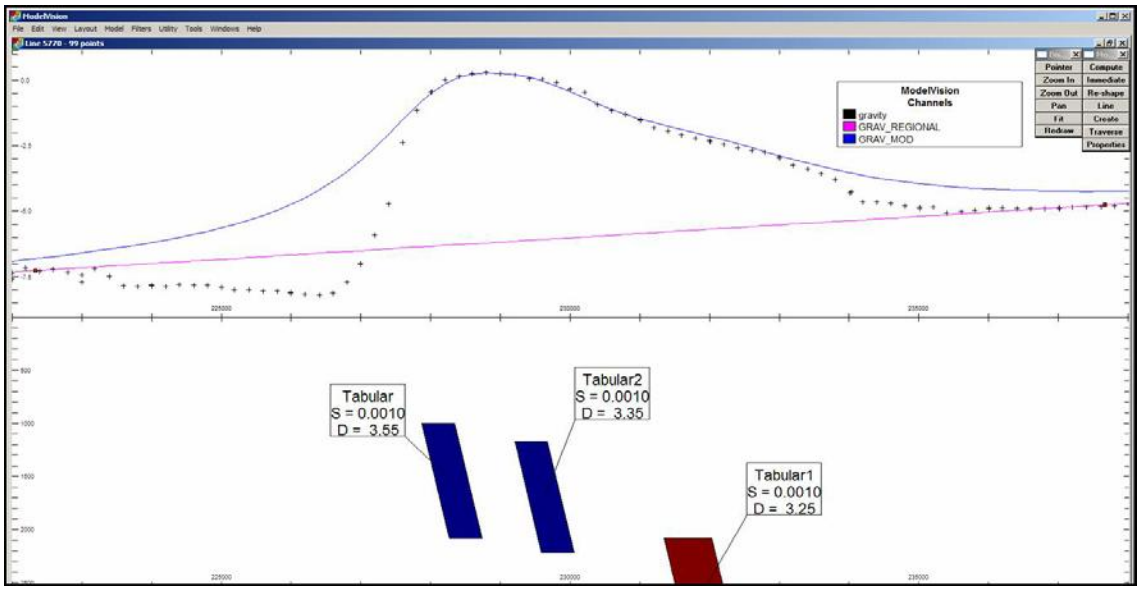

Figure 11: Theoretical block model 2 (deep)

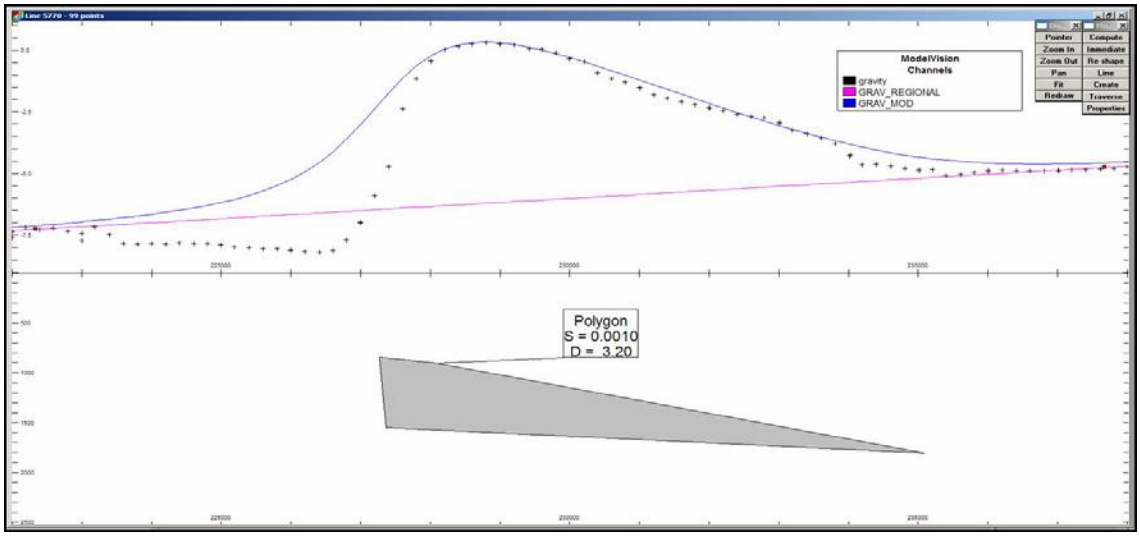

Figure 12: Theoretical block model 3 (deep)

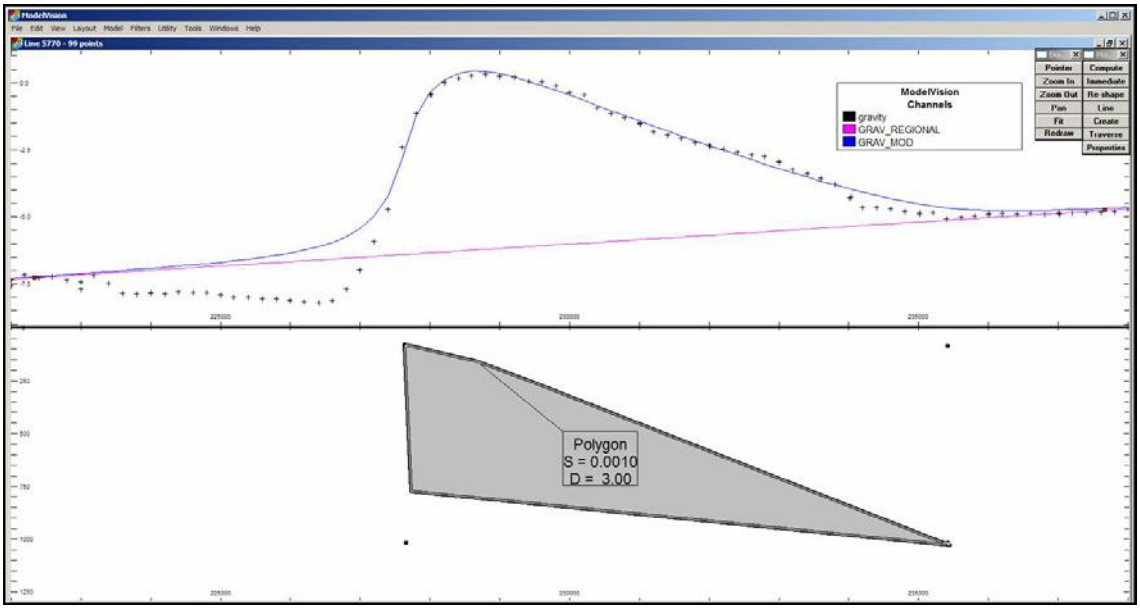

Figure 13: Theoretical block model 4 (shallow)

Models 1 and 2 assume steeply E-dipping bodies with possible outcomes ranging from shallowest block at 200 m with density of 3.0 g/cc (Figure 10) to significantly denser but deeper blocks (Figure 11) where blocks have assumed densities of 3.55, 3,35 and 3.25 g/cc and occurring at depths exceeding 1000 m.

Alternatively, Models 3 and 4 assume a modestly E-dipping geological entity, perhaps as in a thinning wedge of dense basalt or other appropriate lithology. This results in possible outcomes ranging from dense but deeper scenario, with slab density of 3.2 g/cc and shallowest point of 900 m (Figure 12) to less dense and much shallower scenario with slab density of 3.0 g/cc and remarkably shallow at only 100 m for the shallowest point (Figure 13).

Better fits exist between observed and computed profiles for the shallower block models, especially for the western portions. The currently favoured interpretation is that dense lithologies of ~3.0 g/cc are likely to occur at depths of only 100–200 m below ground level. The lithological nature of this material is not known, but may represent Precambrian crystalline basement gneisses, Neoproterozoic basalt (Wooltana Volcanics equivalent), Neoproterozoic limestone and dolomite and even Neoproterozoic–Cambrian sedex-style mineralization. The material is apparently non-magnetic.

Consideration is being given to drill testing the geophysical feature in order to ascertain the precise lithological nature of the modelled dense blocks.

5. EXPENDITURE

Total expenditure for activities by Minotaur Exploration on EL 3921 Mt James for the year period ending 2nd September 2008 are outlined below (Table 1).

EXPENDITURE ITEM	$
Application/fees/rental	33.60
Assays	
Camp hire/maintenance	
Clearance/Native title	
Communications	
Computing	359.09
Drilling	
Environment/Rehabilitation	2,030.00
Field work	794.06
Freight/Transport	82.64
Geological consulting	
Geophysical consulting	95,100.00
Hire plant/Equipment	480.00
Maps/Data/Drafting	190.84
Petrology	
Postage/Freight/Transport	
Regional office/camp	107.93
Salaries	12,349.00
Travel	22.10
Vehicle expenses	2280.00
Vehicle hire	
Management (10%)	11,382.93
TOTAL	**$125,212.19**

Table 1: Expenditure on EL 3921 for the year ending 2nd September 2008

APPENDICES

APPENDIX A:

Gravity data from 2007 ground gravity survey undertaken by Haines Survey (digital format only) — Digital file EL3921_2008_A_02_Gravity.txt

HAINES SURVEYS

GRAVITY SURVEY SPECIALISTS

Job No 0762

MT JAMES GRAVITY SURVEY
MINOTAUR EXPLORATION LTD
OCTOBER 2007

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HAINES SURVEYS PTY. LTD. A.C.N 008209 872

Contents

Introduction

A detail GPS gravity survey designated as Mt James Gravity Survey has been carried out in an area approximately 20 kilometres South East of Leigh Creek in South Australia over 28 days from 23rd of October2007 to 19th of November 2007 on behalf of Minotaur Exploration Pty Ltd.

The proposed Mt James gravity survey consisted of 930 detailed gravity stations in an irregular grid comprising 56 East-West trending lines coincident with GDA94 with a line spacing of 500 and1000 metres and station intervals of 500 and 1000 metres. The lines of irregular length were bounded in the west by GDA94 Zone 54 221000E, in the east by 239000E, in the south by 6560000N and in the north by 6606000N. The line lengths ranged from 9000 metres to 17000 metres.
During the Survey an extra 128 stations in 2 Lines at a 200m station spacing were proposed in the mid-northern section and the mid southern section of the original proposed survey.

The completed Mt James gravity survey comprised of 1050 stations in 56 lines. 7 gravity stations where omitted in the Southern section due to an established fossil zone. Ten stations were omitted in the north eastern zone due to terrain. Note; some of the stations have been slightly offset from their planned position due to vegetation and terrain.

There were 79 observations repeated for quality control purposes, giving a repeat percentage of 7%.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Figure 1 below shows the location of the survey area.

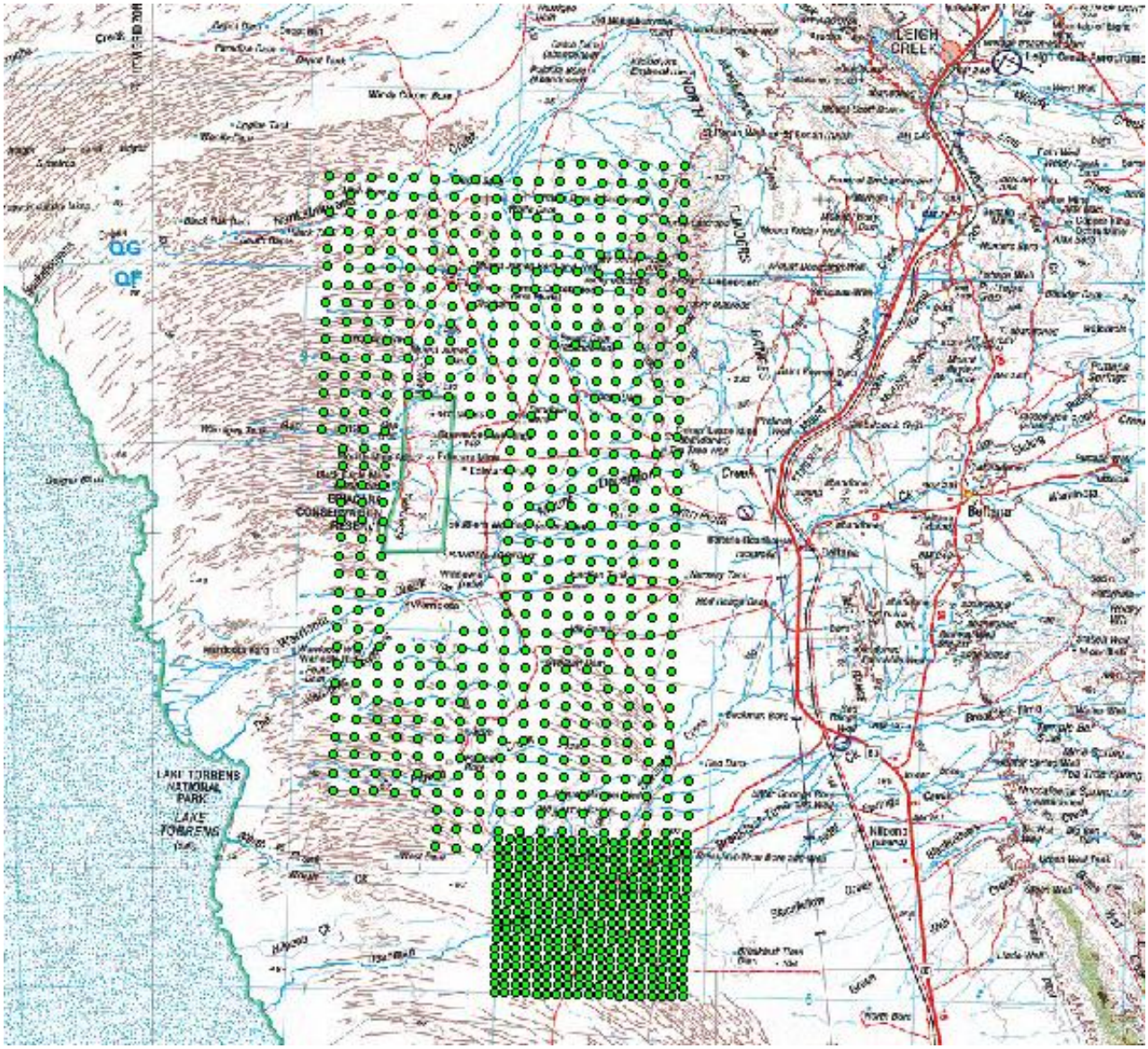


Figure 1. Location Diagram

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000 & 5000* series geodetic receivers.

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

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

Static baseline processing has been done using Trimble GPSurvey Version 2.35 software and RTK processing using Trimble Geomatics Office Version 1.01 software.

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

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

Gravity Observations

Gravity measurements have been made using *Scintrex CG5 Autograv* instruments. The instrument number 070940295 was used in this project.

Readings of 120 seconds were taken at base station. Readings of 40 seconds were taken at all other gravity survey points.

Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG3 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Survey and Gravity Datum

Horizontal Datum: Geocentric Datum of Australia1994 (GDA94)
Map Grid of Australia 1994 (MGA94)
Zone 54

Vertical Datum: Australian Height Datum (AHD)

Gravity Datum: Isogal 1984 / IGSN 71

Survey Control

Two base stations were established in the survey area. They were placed on hills throughout the project to provide good VHF radio coverage for the RTK system.

Base 2007.0696

The first base, was T1/696 Mt Michael Trig Station, called base 2007.0696 in the survey data.
Horizontal and vertical control for 0696 has been established using the AUSPOS online GPS processing service provided by Geoscience Australia. This method provides control within the GDA94 Datum to within +/- 5-cm. It largely replaces the need for finding local survey marks or allows accurate control to be established when local marks are not available.

A total of 34 hours (at 10 second intervals) of observations were logged over 5 days. The following outlines the cartesian coordinate precision attained per day.

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
0000.0696	0.027	0.021	0.012	2007/10/24
0000.0696	0.007	0.007	0.004	2007/10/23
0000.0696	0.006	0.006	0.003	2007/10/25
0000.0696	0.009	0.006	0.006	2007/10/26
0000.0696	0.01	0.007	0.003	2007/10/27

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height determined from AUSPOS and the AUSGEOID98 gravimetric geoid.

Base 2007.6201

The second base, was designated 2007.6201.

Horizontal control has been established from survey mark 2007.0696 using the Static GPS technique.

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been established from survey mark 2007.0696 using the Static GPS technique. The Australian Height Datum (AHD) height for this mark has been held fixed and the GDA94 height has been determined using the AUSGEOID98 gravimetric geoid.
As a precision check, 3 days of data was sent to AUSPOS (refer to 0696 survey control).

A total of 21 hours (at 10 second intervals) of observations were logged over 3 days. The following outlines the Cartesian coordinate precision attained per day.

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
0000.6201	0.015	0.008	0.008	2007/11/06
0000.6201	0.016	0.008	0.008	2007/11/07
0000.6201	0.015	0.011	0.008	2007/11/08

The actual bases were marked with a short star picket driven flush with the natural surface. The bases are witnessed by a long star picket within 0.3m of the ground mark standing about 1m tall. Two aluminum tags are attached with the inscription "Haines Surveys" and "Gravity 2007.6201".

Sub-bases were located within 5 minutes drive of the main bases to provide a backup base station to the main base in case loop ties to the main base were poor. They are not marked.

Gravity control for 0696 & 6201 base station's, was established on the Australian Fundamental Gravity Network (Isogal 1984 / IGSN 71) using classical A-B B-A ties from gravity station 6536.5010. The values for 5010 were attained from Primary industry and Resources, South Australia (PIRSA) gravity station 82EO/5010. Isogal65 values for gravity at this station was supplied by PIRSA and this value was converted to an Isogal84 value using the polynominal formula given on page 9 of the BMR Report Number 261, 1984. Note, that this station is also a Permenent Survey Mark with an identifier of 6356/5010. Ties were made over several days to within 0.01 milligals

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

	WGS 84			MGA Zone 53		AHD	Isogal 84
Base ID	Latitude	Longitude	Height	Easting	Northing	height	Gravity mGal
6536/5010	-30 34 51.1805	138 24 55.5696	255.704	252148.489	6613999.959	245.756	979304.439
2007.0696	-30 58 25.6258	138 12 03.9289	227.058	232675.780	6569941.341	218.836	979354.730
2007.6201	-30 46 18.7079	138 09 16.7330	187.396	227667.213	6592219.467	178.901	979349.533

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

The lines are West-East and the 8 digits are constructed from the planned GDA coordinates for each gravity station using

Line No = (GDA N – 6000000) / 100) Stn No = (GDA E – 200000) / 10

eg. Planned gravity station GDA coordinates

6605000.000N 230000.000E

Line No = 6050 Station No = 3000

Ie, Pt No = 60503000

Station numbers have been partly expanded in the processed data to show metres, that is, the Line Numbers = GDA N– 6000000 and Station Numbers = GDA E – 200000.

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by *DMR*.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

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

t_n = time of meter reading at each station
b_1 = base meter reading prior to station reading
t_1 = time of base reading b_1
b_2 = base meter reading after station reading
t_2 = time of base reading b_2

Obs mgal

This is the observed gravity value in milligals.

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

b_g = base stn gravity value (Isogal84)
r_n = meter reading at each station as shown in the CG3 .dat file
drift = residual drift correction as shown above
b_1 = base meter reading prior to station reading

Anom

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

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

Obs = observed gravity as explained above

g_{th} = 978031.8 (1 + 0.0053024 $\sin^2\phi$ - 0.0000059 $\sin^2 2\phi$)

ϕ = WGS84 Latitude

Freeair corrn

The freeair correction is calculated using

Freeair corrn = 0.3086 H

H = height above sea level (AHD height)

Bouguer corrn

Bouguer corrn = -0.04191 ρ H

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

H = height above sea level (AHD height)

Bouguer Anom

Bouguer Anom = Anom + Freeair corrn + Bouguer corrn

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. The results are also supplied in digital form on Compact Disc with the following of files being supplied in a separate sub directory call Processed Data.

ALLCSV.CSV

Field gravity observation files with the extension .DAT and .DC and summarised GPS baseline solution files with extension .GPS are also supplied in a separate subdirectory named Raw Data.

A digital copy of this report is also on the compact disc in the root Directory

ALLCSV.CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

Pt Number, Line No, Station No, Date, Day Number, Local Time, WGS Latitude, WGS Longitude, WGS Height, MGA East, MGA North, AHD Height, Meter reading, Meter reading standard deviation, Earth Tide Correction, drift correction, corrected meter reading, gravity difference (mgal) from base, observed gravity (mgals), gravity anomaly, free-air correction, Bouguer correction (2.67), Bouguer anomaly

*.DAT

These are the raw data files from the *Scintrex CG5*gravitymeter. There is a separate file for each day's data for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G142 = day 142 (21st May).

*.DC

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

*.GPS

These are the GPS solution summaries for all post processed Fast Static baselines with a separate file for each day's solutions. Each record (line) contains the following data fields:

Station, Solution Type, GPS Time, WGS84 Latitude, WGS84 Longitude, WGS84 Height, WGS84 dX, WGS84 dY, WGS84 dZ, Wgs84 dH, Baseline Distance, Solution Reference Variance, Solution RMSE, Rover Antenna Height, Baseline Standard Deviation , Solution Variance Ratio, Observation Count/Rejects, Observation Start time, Observation Finish time

PRODUCTION LOG

Mt James Gravity Survey
Production Log

Date	GPS Day	Observed	Repeats	Work days	Comments
23-Oct-07	296	31		1	Establish Base began Survey
24-Oct-07	297	55	3	1	Fieldwork
25-Oct-07	298	54	2	1	Notification of New Fossil Zone
26-Oct-07	299	51	2	1	Fieldwork
27-Oct-07	300	24	2	1	Fieldwork
28-Oct-07	301	51	4	1	Fieldwork
29-Oct-07	302	49	2	1	Fieldwork
30-Oct-07	303	44	4	1	Fieldwork
31-Oct-07	304	27	4	1	Some terrain difficulty points off of mark
1-Nov-07	305	30	1	1	Fieldwork
2-Nov-07	306	20	2	1	Establish New Base-Severe storm
3-Nov-07	307	-	-	-	Unable to get out on site- too wet
4-Nov-07	308	39	4	1	Fieldwork
5-Nov-07	309	37	2	1	Fieldwork
6-Nov-07	310	35	3	1	Fieldwork
7-Nov-07	311	35	2	1	Fieldwork
8-Nov-07	312	36	3	1	Fieldwork
9-Nov-07	313	38	3	1	Fieldwork
10-Nov-07	314	34	3	1	Points omitted due to steep terrain
11-Nov-07	315	32	2	1	Fieldwork
12-Nov-07	316	31	2	1	Fieldwork
13-Nov-07	317	31	9	1	Fieldwork
14-Nov-07	318	32	5	1	Fieldwork
15-Nov-07	319	30	2	1	Fieldwork
16-Nov-07	320	35	2	1	Fieldwork
17-Nov-07	321	47	3	1	Fieldwork
18-Nov-07	322	50	4	1	Bagan infill
19-Nov-07	323	72	4	1	Completed infill
	Total	1050	79	27	

Repeat Observation Results

MT JAMES GRAVITY SURVEY

Pt #	Day	E	N	H	G	Bouguer
56753350	D295	233500.073	6567508.548	107.542	979377.085	-4.374
56753350	D297	233500.168	6567508.542	107.522	979377.083	-4.38
		-0.095	0.006	0.02	0.002	0.006
56753400	D295	233999.199	6567477.792	98.563	979378.79	-4.466
56753400	D297	233999.397	6567477.915	98.53	979378.791	-4.471
		-0.198	-0.123	0.033	-0.001	0.005
56753450	D295	234490.515	6567486.053	92.474	979379.816	-4.64
56753450	D297	234490.594	6567486.113	92.415	979379.799	-4.669
		-0.079	-0.06	0.059	0.017	0.029
56753450	D300	234490.615	6567486.188	92.375	979379.817	-4.659
		-0.1	-0.135	0.099	-0.001	0.019
56803650	D295	236505.419	6567998.06	91.948	979377.231	-6.997
56803650	D301	236505.475	6567998.094	91.834	979377.216	-7.034
		-0.056	-0.034	0.114	0.015	0.037
56853350	D295	233498.494	6568509.05	116.414	979375.875	-3.119
56853350	D303	233498.624	6568508.811	116.304	979375.877	-3.139
		-0.13	0.239	0.11	-0.002	0.02
56453300	D297	233000.496	6564494.937	71.518	979380.867	-9.835
56453300	D298	233000.537	6564494.919	71.461	979380.867	-9.846
		-0.041	0.018	0.057	0	0.011
56553250	D297	232498.792	6565502.373	70.078	979381.143	-9.109
56553250	D302	232498.758	6565502.226	69.981	979381.136	-9.135
		0.034	0.147	0.097	0.007	0.026
56653500	D297	234988.22	6566494.073	84.943	979381.857	-4.803
56653500	D298	234988.788	6566494.256	84.926	979381.85	-4.813
		-0.568	-0.183	0.017	0.007	0.01
56653550	D297	235552.479	6566460.143	90.129	979380.34	-5.334
56653550	D302	235553.726	6566460.074	90.128	979380.345	-5.33
		-1.247	0.069	0.001	-0.005	-0.004
56103050	D298	230503.517	6561001.06	59.872	979383.403	-12.057
56103050	D299	230503.354	6561001.004	59.887	979383.414	-12.043
		0.163	0.056	-0.015	-0.011	-0.014
56203150	D298	231499.456	6561992.554	61.908	979382.345	-12.02
56203150	D299	231499.424	6561992.524	61.977	979382.341	-12.01
		0.032	0.03	-0.069	0.004	-0.01
56303250	D298	232515.766	6562985.229	66.91	979380.924	-11.761
56303250	D300	232516.298	6562985.243	66.883	979380.929	-11.762
		-0.532	-0.014	0.027	-0.005	0.001

56353650	D300	236508.216	6563483.178	119.568	979375.953	-6.088
56353650	D301	236508.516	6563483.151	119.621	979375.934	-6.097
		-0.3	0.027	-0.053	0.019	0.009
56653750	D302	237517.127	6566493.523	92.612	979377.17	-8.027
56653750	D303	237517.34	6566493.295	92.57	979377.159	-8.046
		-0.213	0.228	0.042	0.011	0.019
57003300	D303	232956.878	6569997.732	200.534	979358.674	-2.695
57003300	D304	232957.212	6569997.809	200.508	979358.698	-2.676
		-0.334	-0.077	0.026	-0.024	-0.019
57203300	D303	233002.74	6572000.316	132.884	979371.269	-1.969
57203300	D304	233002.827	6572000.421	132.897	979371.296	-1.939
		-0.087	-0.105	-0.013	-0.027	-0.03
57202900	D304	228998.998	6571989.73	96.431	979378.935	-1.408
57202900	D305	228998.651	6571989.711	96.417	979378.937	-1.409
		0.347	0.019	0.014	-0.002	0.001
57603000	D305	230010.071	6575993.649	111.492	979374.3	-0.225
57603000	D306	230010.263	6575993.745	111.538	979374.314	-0.202
		-0.192	-0.096	-0.046	-0.014	-0.023
57603000	D309	230010.214	6575993.821	111.589	979374.309	-0.197
		-0.143	-0.172	-0.097	-0.009	-0.028
57703100	D305	231011.113	6576992.196	115.668	979371.482	-1.523
57703100	D307	231011.246	6576992.979	115.644	979371.471	-1.538
		-0.133	-0.783	0.024	0.011	0.015
57703100	D323	231011.309	6576992.891	115.737	979371.49	-1.501
		-0.196	-0.695	-0.069	-0.008	-0.022
57803100	D305	231000.322	6577993.73	108.149	979371.627	-2.138
57803100	D309	230999.973	6577993.52	108.195	979371.61	-2.146
		0.349	0.21	-0.046	0.017	0.008
57903100	D305	231002.928	6578990.822	104.147	979371.406	-2.431
57903100	D306	231002.892	6578990.52	104.15	979371.413	-2.424
		0.036	0.302	-0.003	-0.007	-0.007
57903100	D307	231002.842	6578990.58	104.17	979371.393	-2.44
		0.086	0.242	-0.023	0.013	0.009
57703200	D307	232011.347	6576999.855	113.595	979371.072	-2.353
57703200	D323	232003.517	6576995.277	113.838	979371.068	-2.313
		7.83	4.578	-0.243	0.004	-0.04
57703300	D307	233007.986	6576995.981	116.531	979369.906	-2.963
57703300	D323	233008.254	6576995.763	116.633	979369.924	-2.925
		-0.268	0.218	-0.102	-0.018	-0.038
57703400	D307	234032.615	6577012.488	119.499	979368.042	-4.249
57703400	D323	234012.91	6576995.515	121.818	979367.558	-4.289
		19.705	16.973	-2.319	0.484	0.04
57703700	D307	237020.254	6576994.95	125.121	979366.37	-4.881
57703700	D323	237005.798	6576999.251	125.132	979366.392	-4.854
		14.456	-4.301	-0.011	-0.022	-0.027

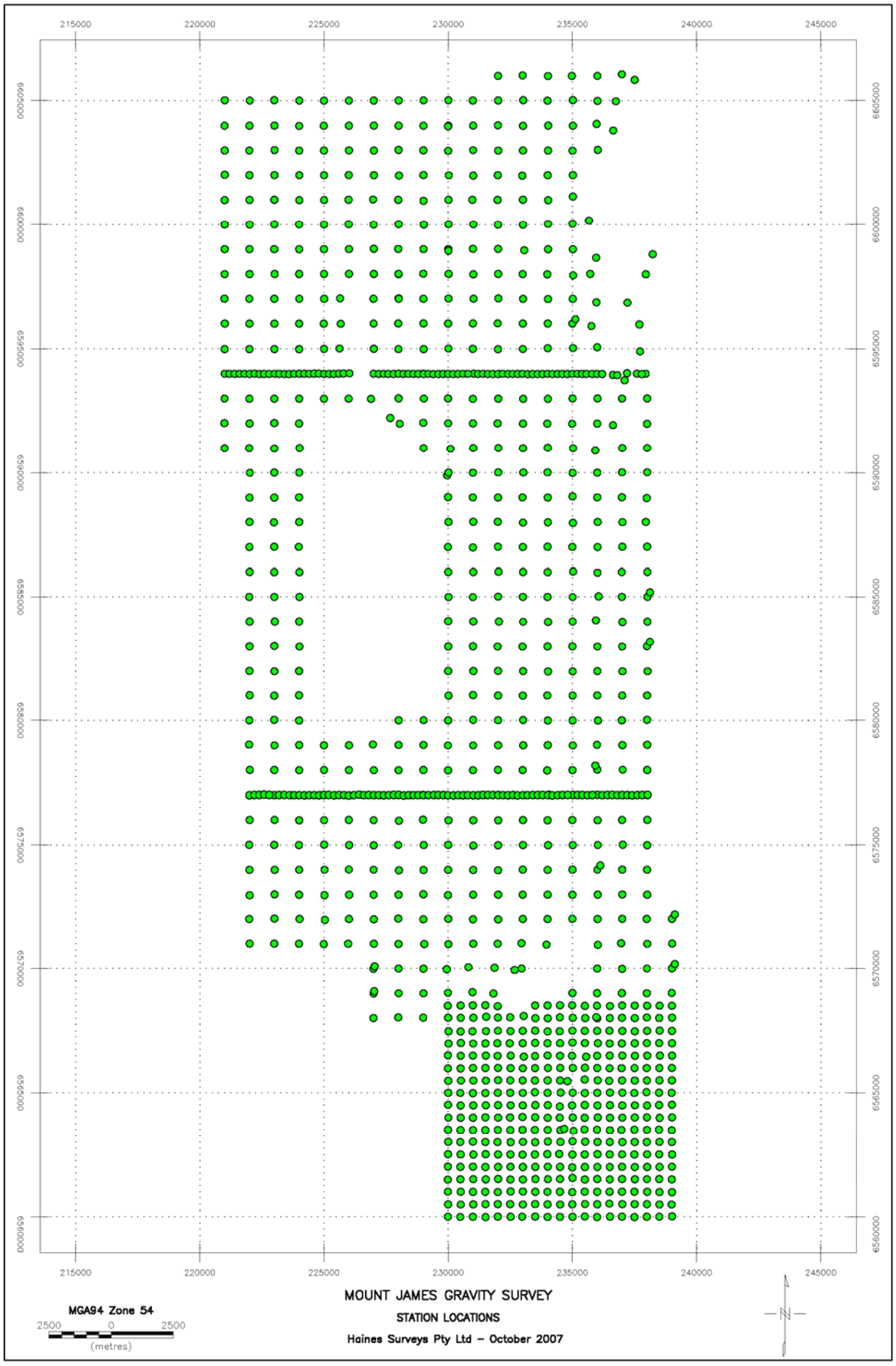
57703800	D307	238024.932	6577006.86	129.672	979365.593	-4.772
57703800	D323	238025.08	6577008.282	129.742	979365.622	-4.728
		-0.148	-1.422	-0.07	-0.029	-0.044
58003700	D307	236989.916	6580000.186	141.648	979362.023	-3.821
58003700	D310	236990.056	6580000.171	141.653	979362.033	-3.81
		-0.14	0.015	-0.005	-0.01	-0.011
57702400	D309	224000.486	6576997.028	57.002	979376.576	-7.836
57702400	D323	224000.701	6576997.648	56.971	979376.59	-7.828
		-0.215	-0.62	0.031	-0.014	-0.008
57702500	D309	224998.758	6577003.12	62.098	979375.516	-7.908
57702500	D323	224998.81	6577001.674	62.098	979375.541	-7.884
		-0.052	1.446	0	-0.025	-0.024
57702600	D309	225996.406	6576983.177	67.804	979374.212	-8.123
57702600	D323	225996.15	6576982.587	67.835	979374.231	-8.098
		0.256	0.59	-0.031	-0.019	-0.025
57702700	D309	226998.852	6576995.957	78.678	979373.199	-7.006
57702700	D323	226998.96	6576995.919	78.697	979373.219	-6.982
		-0.108	0.038	-0.019	-0.02	-0.024
57702800	D309	228013.432	6577006.881	100.134	979375.567	-0.428
57702800	D323	228007.246	6577005.073	100.602	979375.447	-0.457
		6.186	1.808	-0.468	0.12	0.029
57702900	D309	228994.509	6576998.291	99.809	979376.337	0.254
57702900	D323	228999.396	6576997.662	99.813	979376.356	0.273
		-4.887	0.629	-0.004	-0.019	-0.019
57703000	D309	229997.09	6576992.1	107.855	979374.156	-0.367
57703000	D323	229996.345	6576991.1	107.835	979374.185	-0.343
		0.745	1	0.02	-0.029	-0.024
57803200	D309	231999.654	6578008.595	109.3	979371.048	-2.498
57803200	D310	231999.29	6578008.322	109.228	979371.052	-2.509
		0.364	0.273	0.072	-0.004	0.011
57902900	D309	229004.221	6579008.624	108.606	979372.657	-0.254
57902900	D311	229003.343	6579008.705	108.494	979372.651	-0.282
		0.878	-0.081	0.112	0.006	0.028
58103000	D310	230012.789	6580993.413	101.022	979372.032	-0.966
58103000	D311	230012.772	6580993.514	101.043	979372.007	-0.986
		0.017	-0.101	-0.021	0.025	0.02
58403000	D310	229999.313	6584014.933	99.388	979369.544	-1.609
58403000	D312	229999.361	6584014.92	99.366	979369.538	-1.619
		-0.048	0.013	0.022	0.006	0.01
58703000	D311	229986.973	6586996.832	104.325	979365.703	-2.342
58703000	D312	229987.032	6586996.993	104.32	979365.709	-2.337
		-0.059	-0.161	0.005	-0.006	-0.005

58603000	D312	230001.72	6585997.606	101.043	979367.134	-2.273
58603000	D313	230001.534	6585997.641	101.07	979367.137	-2.264
		0.186	-0.035	-0.027	-0.003	-0.009
59003000	D313	230008.499	6590004.435	107.482	979361.856	-3.415
59003000	D314	230008.578	6590004.287	107.497	979361.85	-3.418
		-0.079	0.148	-0.015	0.006	0.003
59003700	D313	237000.915	6590012.214	138.673	979354.311	-4.944
59003700	D314	237001.029	6590012.106	138.688	979354.307	-4.945
		-0.114	0.108	-0.015	0.004	0.001
59303100	D314	230994.238	6592990.369	105.727	979357.789	-5.707
59303100	D315	230994.137	6592990.611	105.718	979357.791	-5.707
		0.101	-0.242	0.009	-0.002	0
59403300	D314	232993.776	6593999.724	108.569	979353.45	-8.801
59403300	D322	232994.26	6594000.067	108.557	979353.433	-8.82
		-0.484	-0.343	0.012	0.017	0.019
59403400	D314	234000.209	6594000.58	120.596	979350.549	-9.354
59403400	D322	233999.343	6594000.706	120.609	979350.538	-9.362
		0.866	-0.126	-0.013	0.011	0.008
59403500	D314	234994.67	6594000.666	150.771	979345.319	-8.666
59403500	D322	234995.412	6594000.23	150.763	979345.328	-8.659
		-0.742	0.436	0.008	-0.009	-0.007
59403600	D314	235997.029	6593997.595	183.468	979339.436	-8.137
59403600	D322	235995.901	6593997.587	183.459	979339.449	-8.126
		1.128	0.008	0.009	-0.013	-0.011
59502900	D314	229011.519	6594992.907	95.802	979361.853	-2.127
59502900	D315	229011.534	6594993.053	95.824	979361.844	-2.132
		-0.015	-0.146	-0.022	0.009	0.005
59502900	D317	229011.555	6594993.315	95.869	979361.876	-2.091
		-0.036	-0.408	-0.067	-0.023	-0.036
59502900	D317	229011.555	6594993.315	95.869	979361.867	-2.1
		-0.036	-0.408	-0.067	-0.014	-0.027
59503200	D314	232002.422	6594989.748	103.186	979354.599	-7.985
59503200	D322	232002.383	6594989.553	103.181	979354.604	-7.981
		0.039	0.195	0.005	-0.005	-0.004
59402700	D315	226995.644	6594004.032	109.802	979363.892	1.995
59402700	D322	226995.741	6594003.903	109.808	979363.881	1.985
		-0.097	0.129	-0.006	0.011	0.01
59402800	D315	227996.01	6594001.529	102.085	979363.755	0.32
59402800	D322	228003.877	6594003.313	101.843	979363.775	0.293
		-7.867	-1.784	0.242	-0.02	0.027
59402900	D315	229000.754	6594005.629	98.538	979362.322	-1.826
59402900	D322	229004.474	6593992.653	98.536	979362.331	-1.827
		-3.72	12.976	0.002	-0.009	0.001

59403000	D315	229998.567	6593999.106	100.24	979359.521	-4.315
59403000	D318	229998.787	6593998.939	100.245	979359.499	-4.336
		-0.22	0.167	-0.005	0.022	0.021
59403000	D322	229998.489	6593997.996	100.239	979359.52	-4.317
		0.078	1.11	0.001	0.001	0.002
59403200	D315	232015.649	6593995.132	106.317	979355.109	-7.571
59403200	D322	232006.114	6593993.323	106.101	979355.168	-7.555
		9.535	1.809	0.216	-0.059	-0.016
59502700	D315	227006.541	6595007.81	101.083	979364.648	1.754
59502700	D320	227006.124	6595007.003	101.14	979364.646	1.762
		0.417	0.807	-0.057	0.002	-0.008
59503000	D315	230007.446	6595015.291	97.138	979359.188	-4.531
59503000	D317	230007.385	6595015.628	97.124	979359.167	-4.555
		0.061	-0.337	0.014	0.021	0.024
59702800	D315	228004.692	6597016.071	89.069	979362.788	-1.052
59702800	D316	228004.462	6597016.056	89.1	979362.808	-1.025
		0.23	0.015	-0.031	-0.02	-0.027
59702800	D319	228009.043	6597001.679	89.157	979362.771	-1.061
		-4.351	14.392	-0.088	0.017	0.009
59802800	D315	228001.126	6597988.545	85.906	979362.565	-1.201
59802800	D321	227999.32	6598002.1	85.934	979362.537	-1.214
		1.806	-13.555	-0.028	0.028	0.013
59902700	D315	227005.247	6599013.718	89.125	979363.14	0.758
59902700	D316	227005.416	6599013.724	89.141	979363.183	0.804
		-0.169	-0.006	-0.016	-0.043	-0.046
59902700	D317	227005.462	6599013.746	89.123	979363.154	0.772
		-0.215	-0.028	0.002	-0.014	-0.014
60002700	D315	226996.486	6599991.255	84.142	979363.31	0.647
60002700	D317	226996.593	6599991.476	84.169	979363.31	0.652
		-0.107	-0.221	-0.027	0	-0.005
59702900	D316	229005.316	6597000.029	89.959	979360.386	-3.308
59702900	D317	229005.117	6596999.948	89.962	979360.375	-3.318
		0.199	0.081	-0.003	0.011	0.01
59703000	D316	230011.031	6597011.687	92.358	979358.008	-5.224
59703000	D317	230011.012	6597011.407	92.37	979357.996	-5.234
		0.019	0.28	-0.012	0.012	0.01
59703100	D316	231021.493	6597006.03	94.841	979355.961	-6.805
59703100	D317	231021.529	6597005.706	94.898	979355.955	-6.8
		-0.036	0.324	-0.057	0.006	-0.005
59703200	D316	232019.253	6597014.459	99.355	979353.006	-8.884
59703200	D317	232019.3	6597014.099	99.34	979353	-8.893
		-0.047	0.36	0.015	0.006	0.009
60303600	D316	236023.611	6603022.375	254.554	979314.464	-12.675
60303600	D318	236024.146	6603021.781	254.658	979314.464	-12.655
		-0.535	0.594	-0.104	0	-0.02

60102700	D317	226977.639	6601018.522	79.679	979362.663	-0.144
60102700	D318	226977.567	6601018.47	79.687	979362.663	-0.142
		0.072	0.052	-0.008	0	-0.002
60202900	D317	229002.532	6602007.931	82.97	979356.949	-4.54
60202900	D318	229002.597	6602007.754	82.996	979356.94	-4.544
		-0.065	0.177	-0.026	0.009	0.004
60503000	D318	230005.678	6605008.421	78.94	979349.189	-10.968
60503000	D319	230006.153	6605007.622	78.934	979349.192	-10.967
		-0.475	0.799	0.006	-0.003	-0.001
60102400	D319	224006.454	6600992.859	68.098	979360.055	-4.994
60102400	D320	224005.787	6600992.287	68.11	979360.071	-4.976
		0.667	0.572	-0.012	-0.016	-0.018
59502400	D320	224002.221	6594991.174	90.01	979362.293	-2.736
59502400	D321	224001.192	6594988.712	89.848	979362.323	-2.74
		1.029	2.462	0.162	-0.03	0.004

Plots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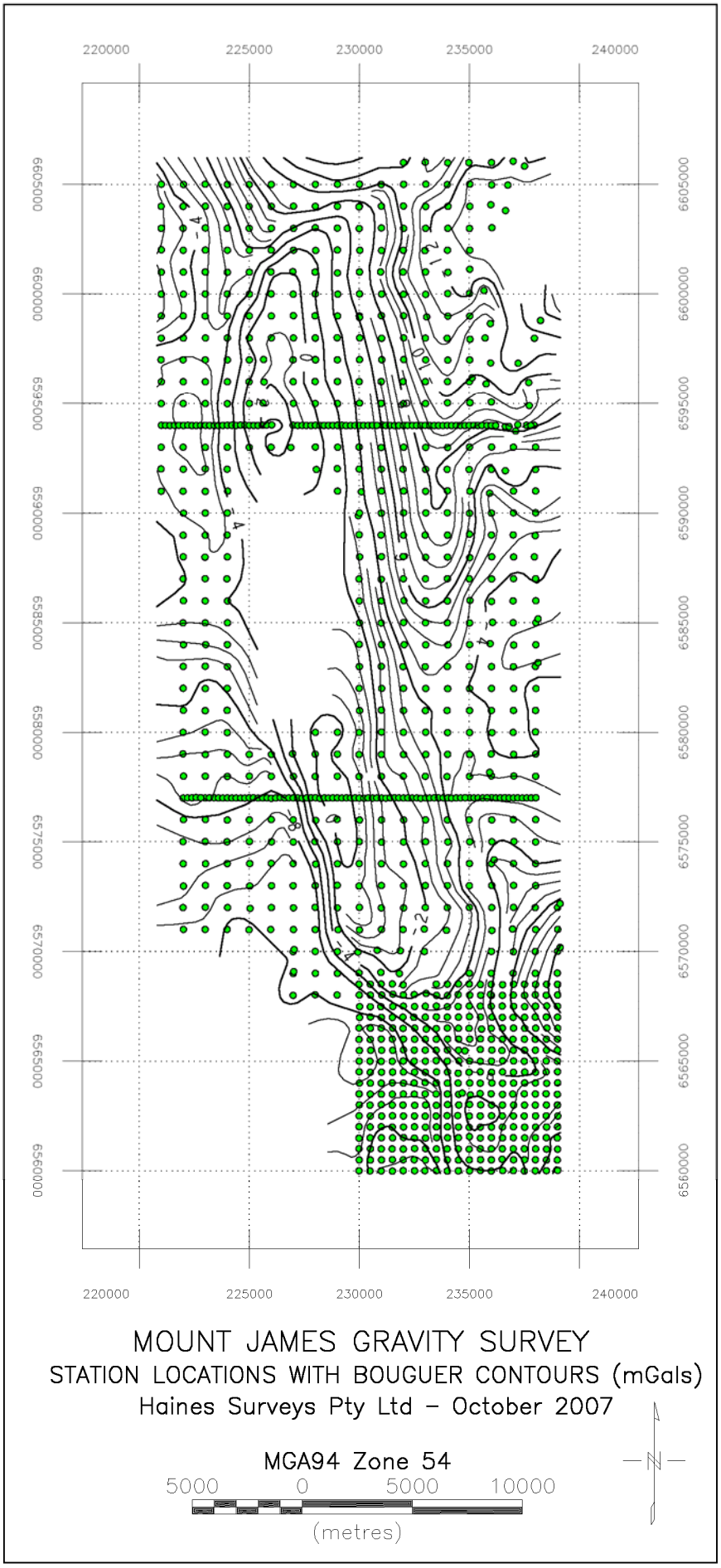
MGA94 Zone 54
2500 0 2500
(metres)
MOUNT JAMES GRAVITY SURVEY
STATION LOCATIONS
Haines Surveys Pty Ltd – October 2007
N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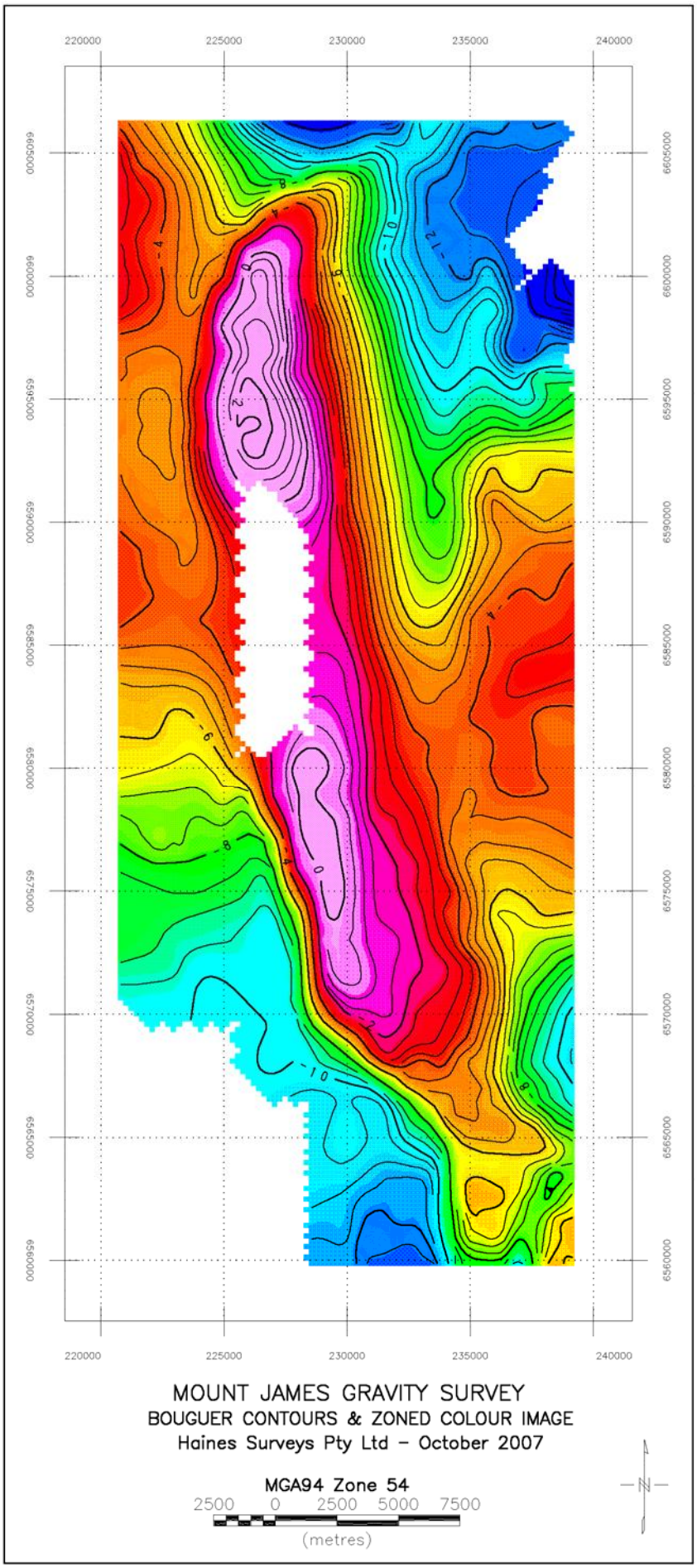
6560000
MOUNT JAMES GRAVITY SURVEY
STATION LOCATIONS WITH BOUGUER CONTOURS (mGals)
Haines Surveys Pty Ltd – October 2007
MGA94 Zone 54
5000 0 5000 10000
(metres)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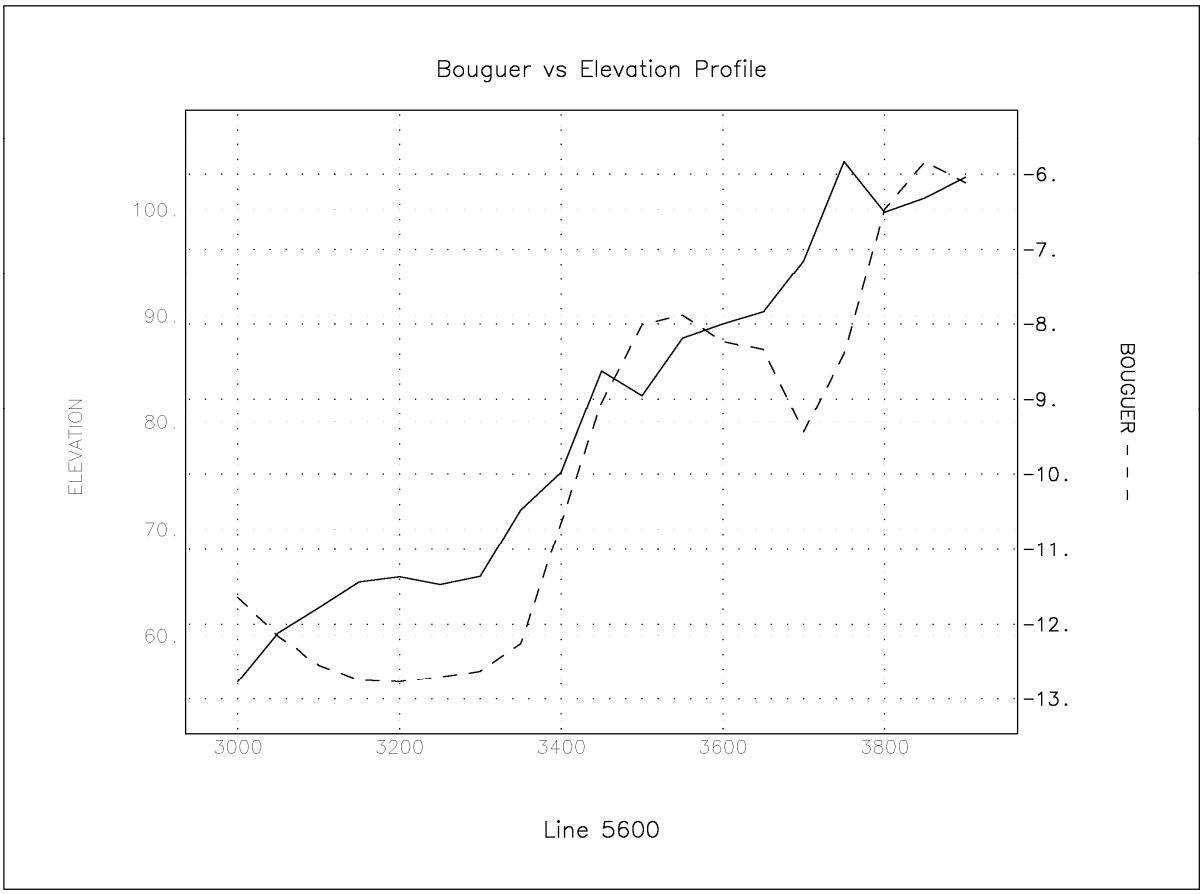
6560000
MOUNT JAMES GRAVITY SURVEY
BOUGUER CONTOURS & ZONED COLOUR IMAGE
Haines Surveys Pty Ltd – October 2007
MGA94 Zone 54
2500 0 2500 5000 7500
(metres)


Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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90.
80.
70.
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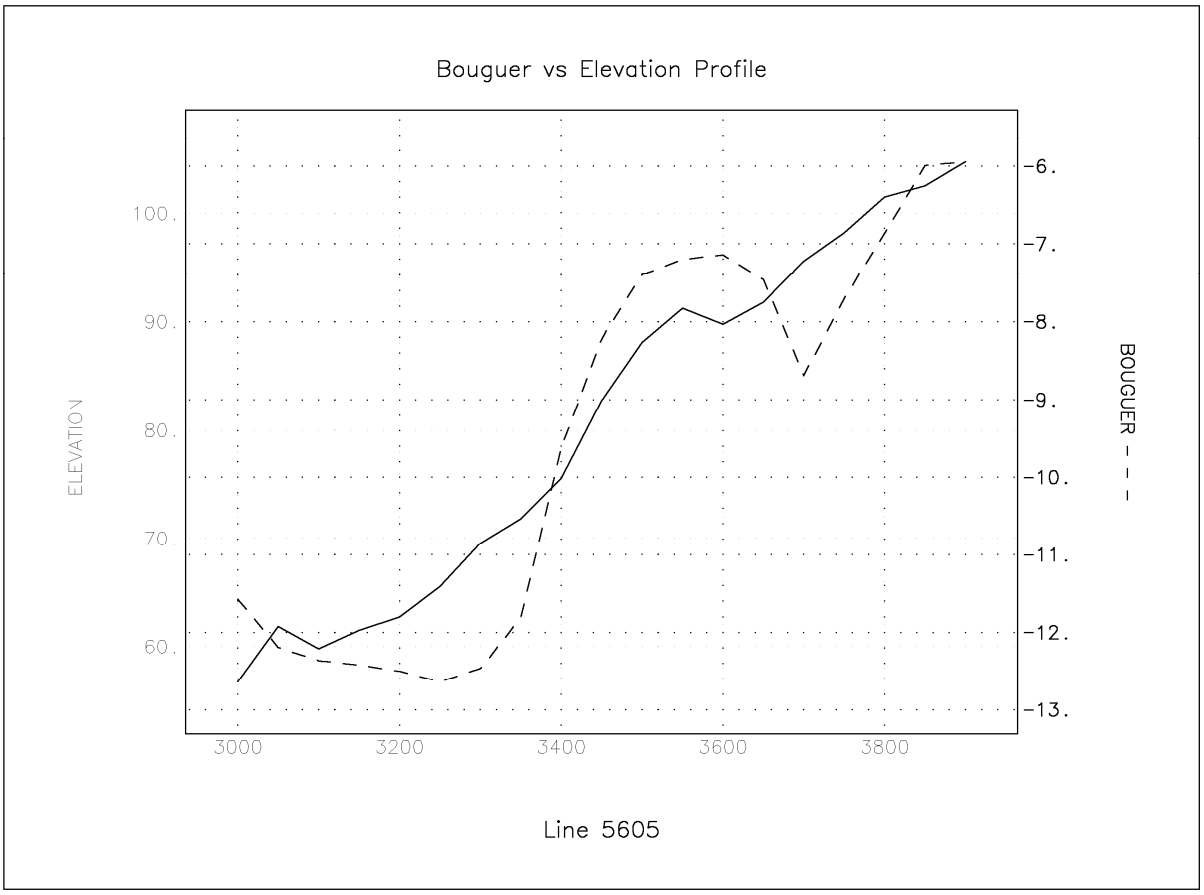
Bouguer vs Elevation Profile
ELEVATION
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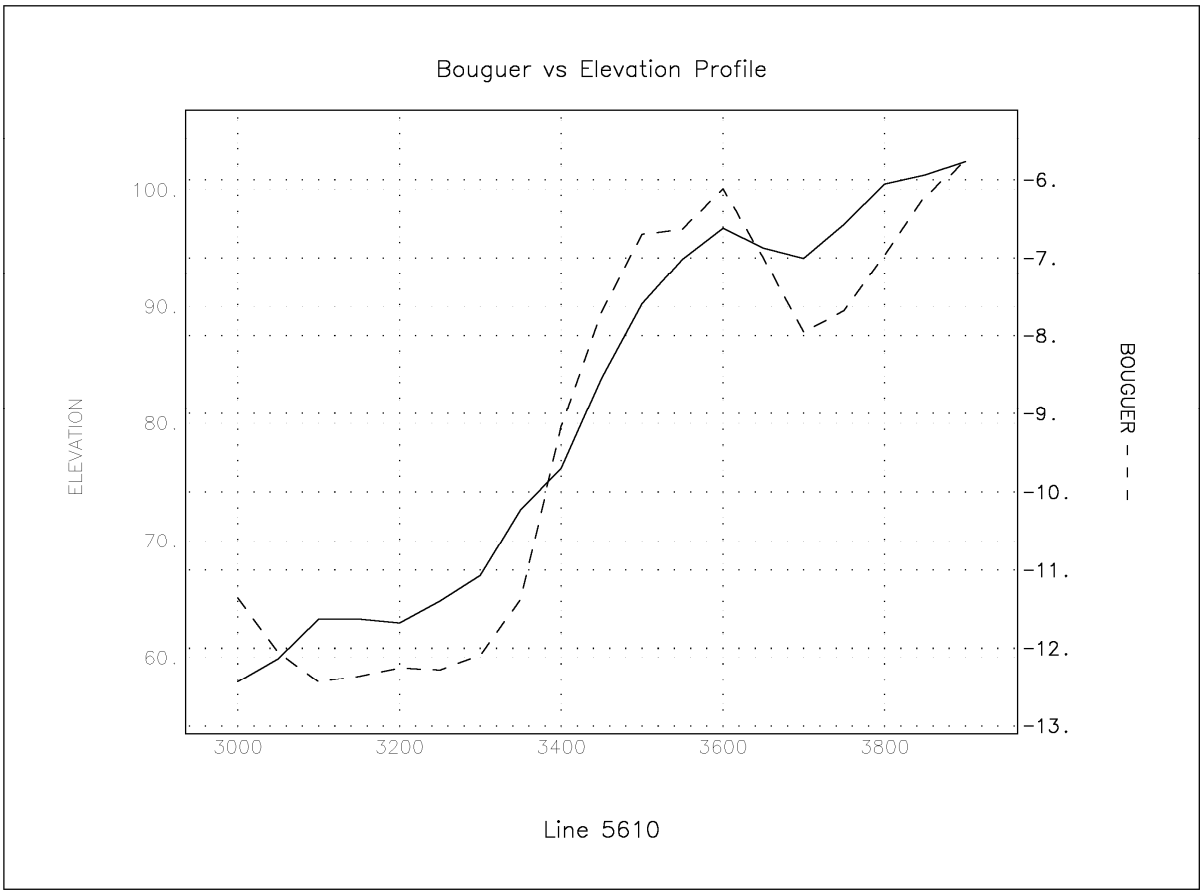
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ELEVATION
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3000
3200
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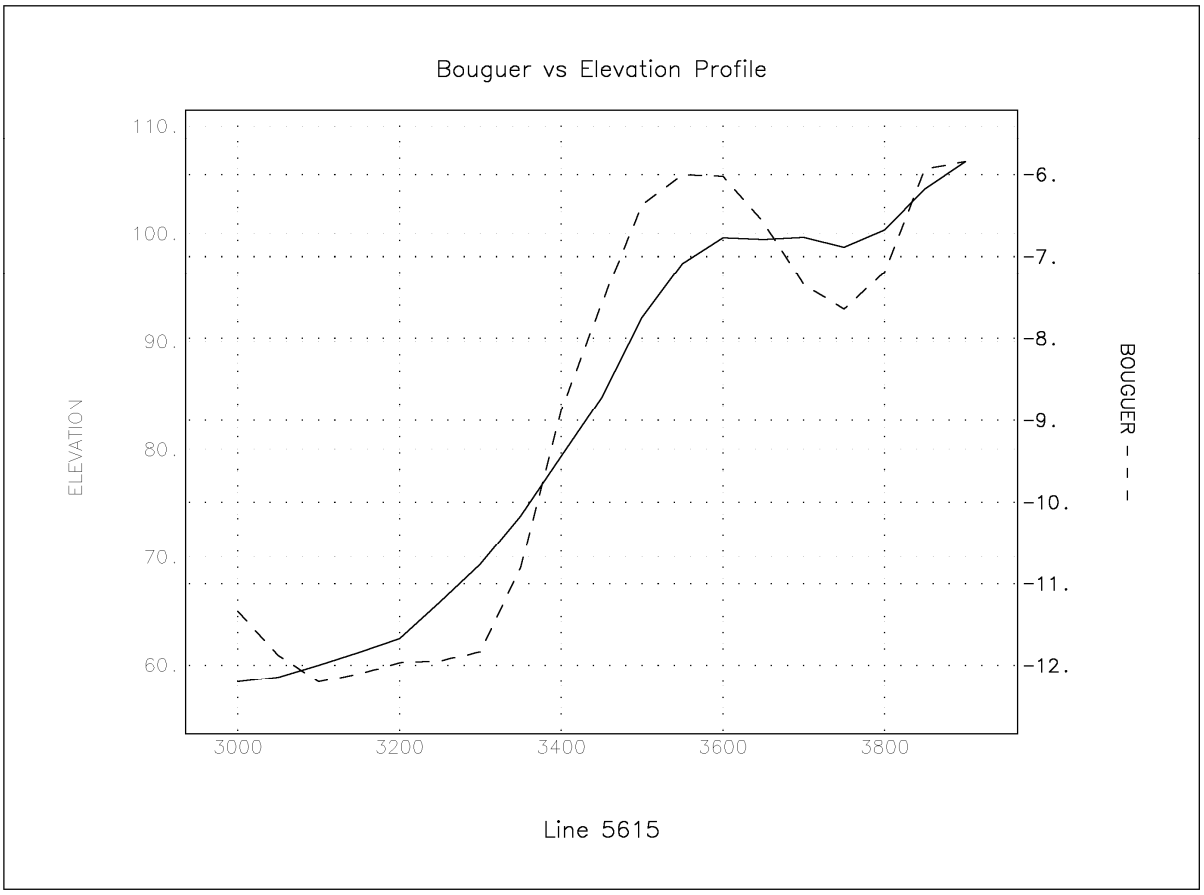
-13.
BOUGUER - - -
Line 5610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ELEVATION
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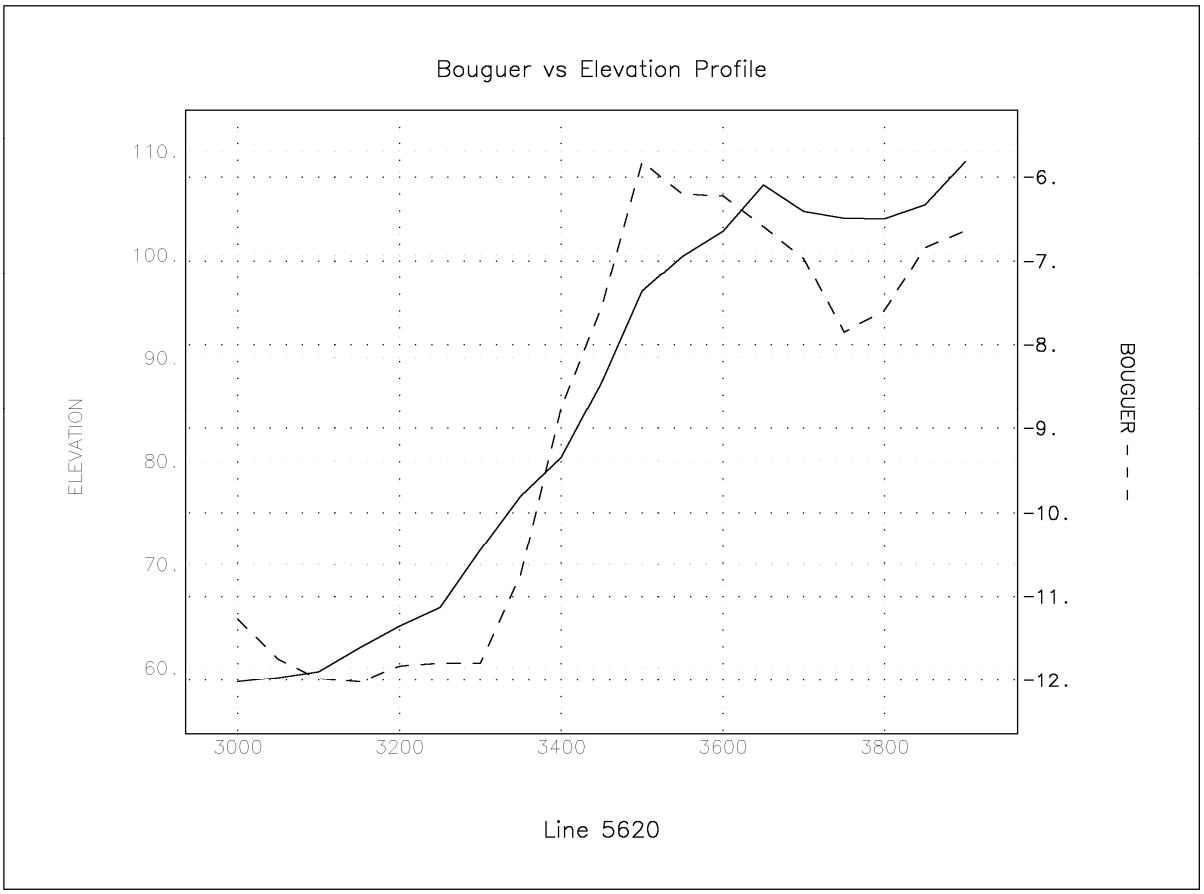
-12.
BOUGUER - - -
Line 5615


Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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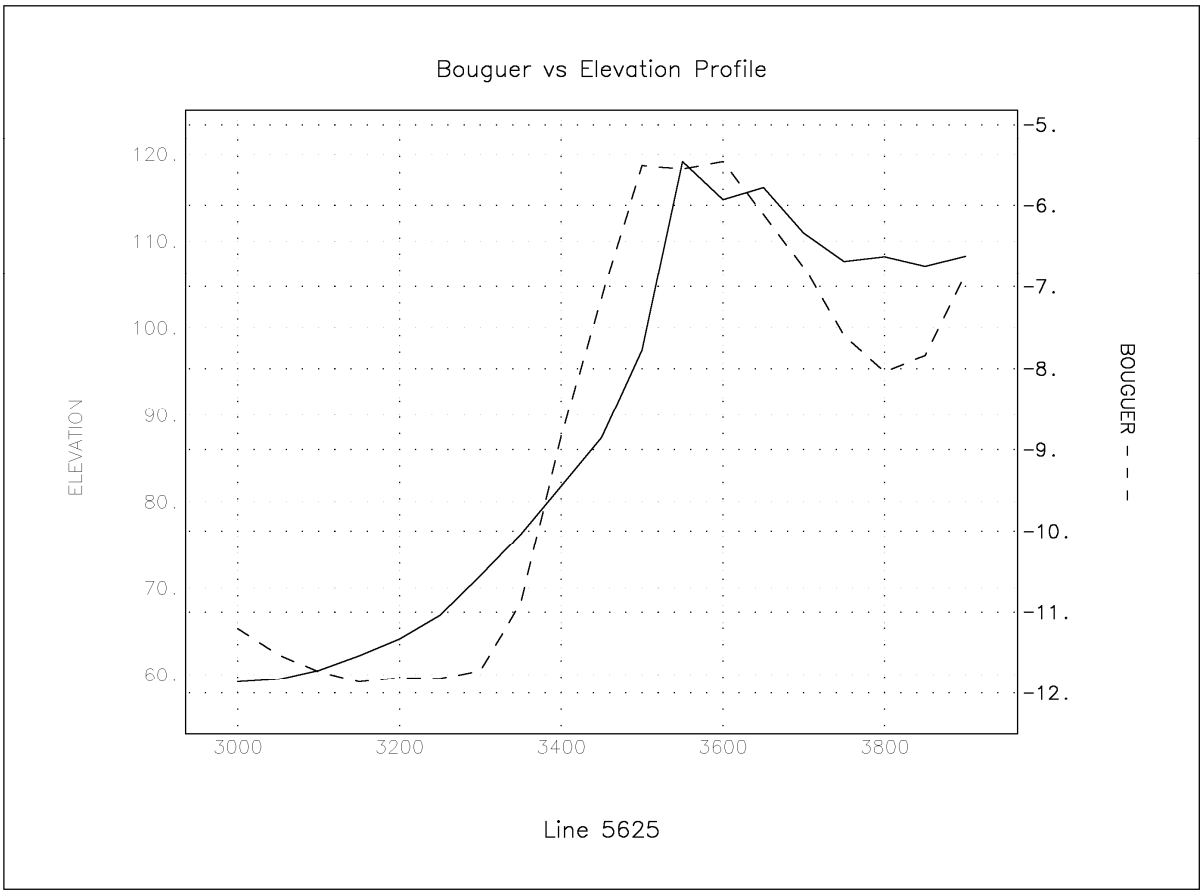
Bouguer vs Elevation Profile
ELEVATION
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90.
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70.
60.
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-11.
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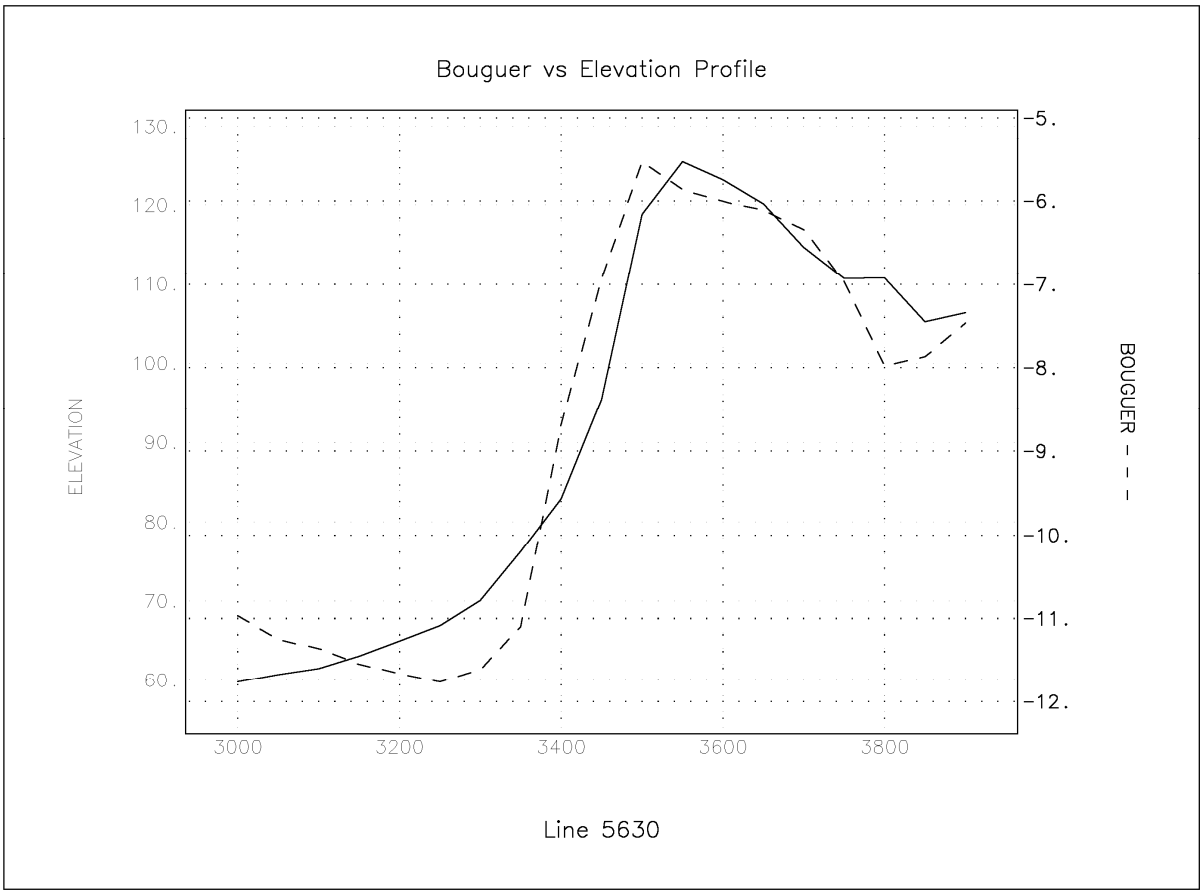
Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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120.
110.
100.
90.
80.
70.
60.
-5.
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-9.
-10.
-11.
-12.
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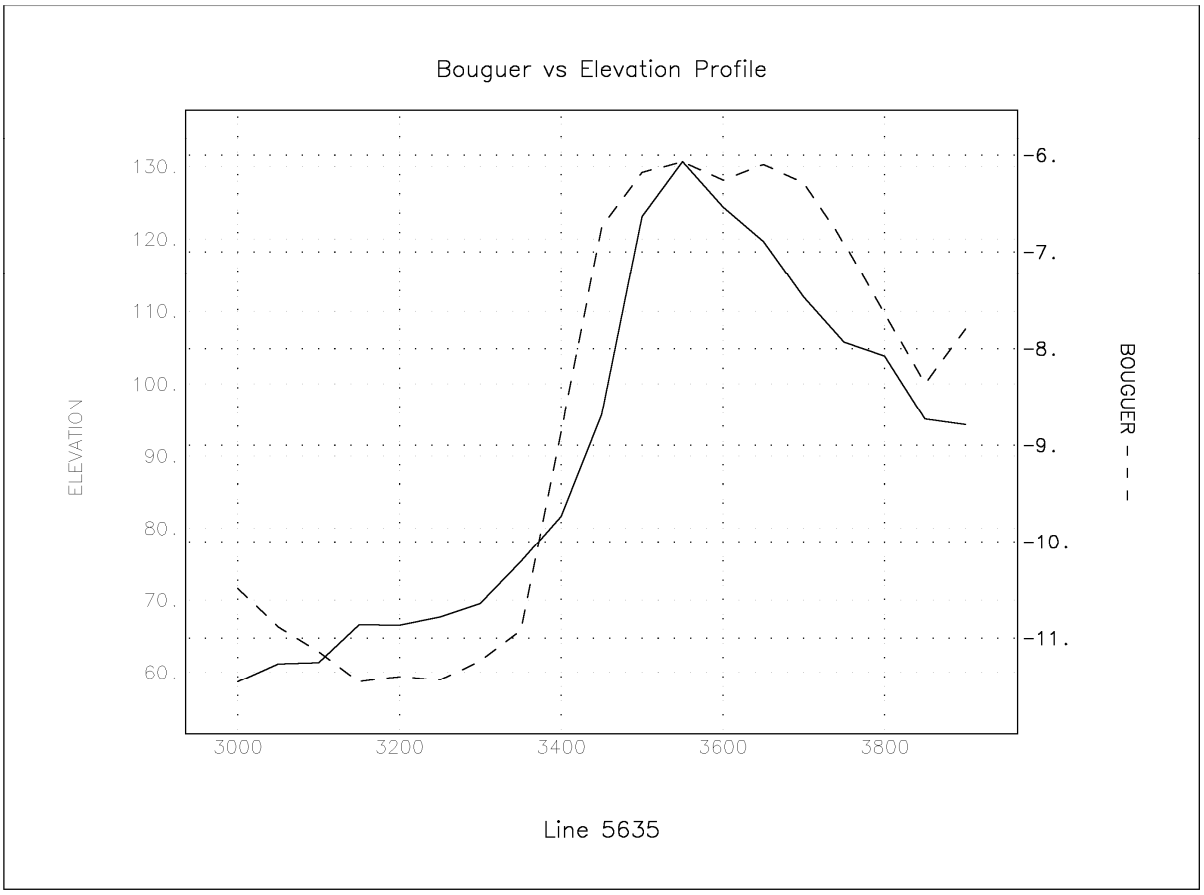
Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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120.
110.
100.
90.
80.
70.
60.
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-8.
-9.
-10.
-11.
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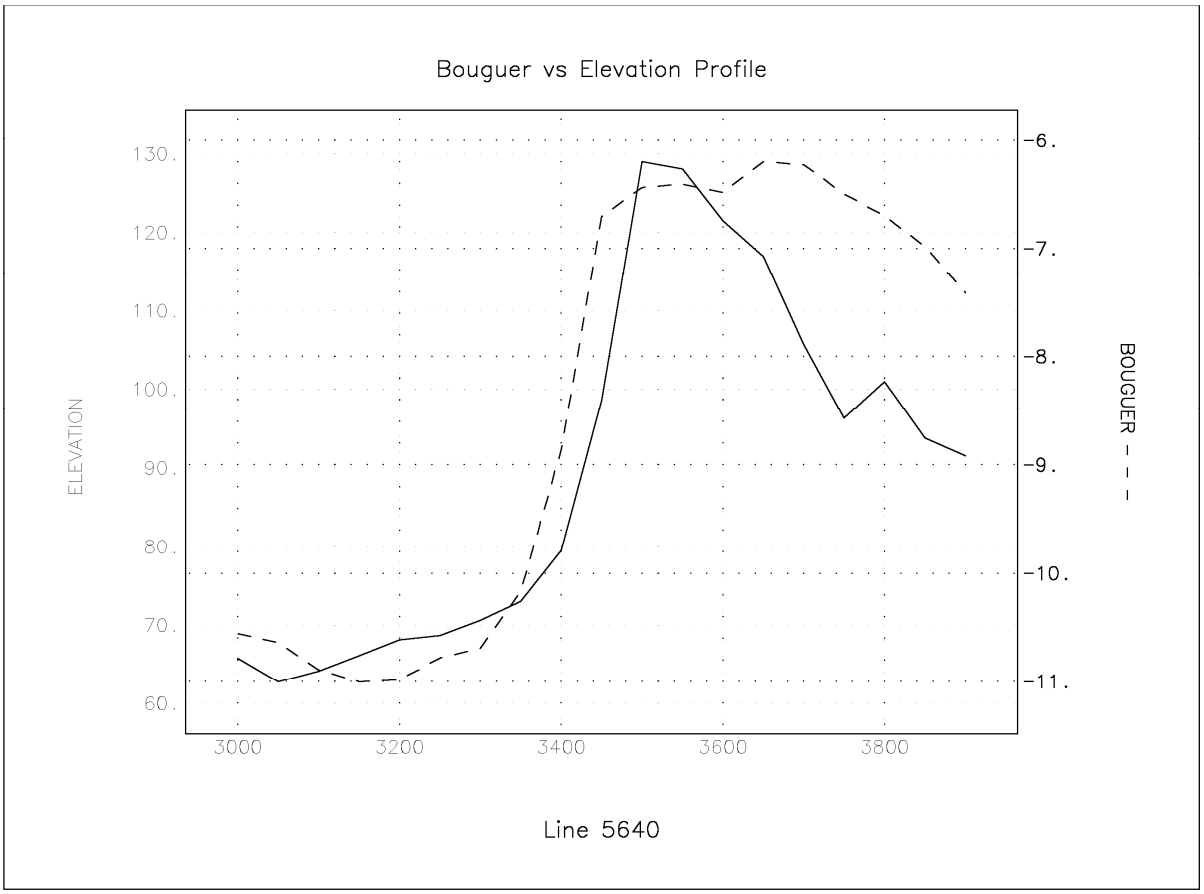
Bouguer vs Elevation Profile
ELEVATION
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100.
90.
80.
70.
60.
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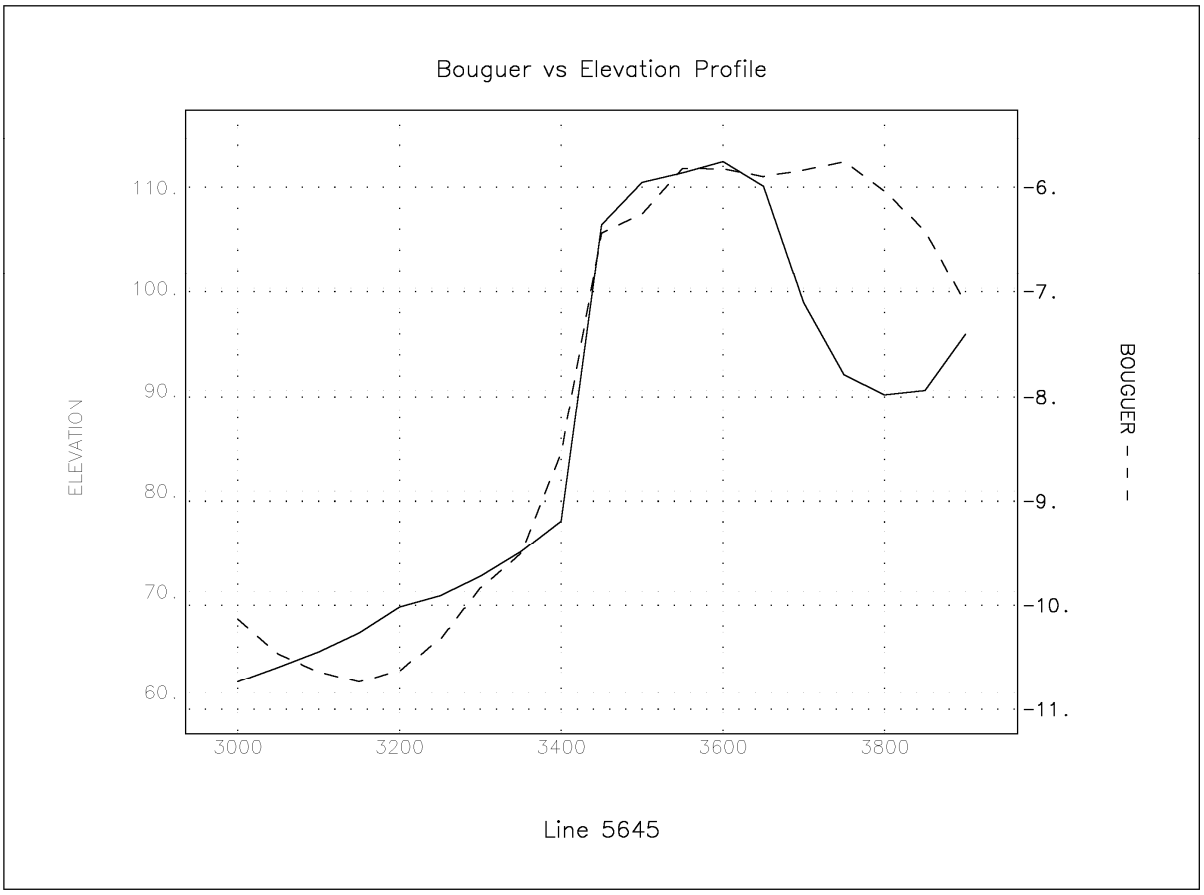
-6.
-7.
-8.
-9.
-10.
-11.
BOUGUER - - -
Line 5640


Bouguer vs Elevation Profile
ELEVATION
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BOUGUER - - -
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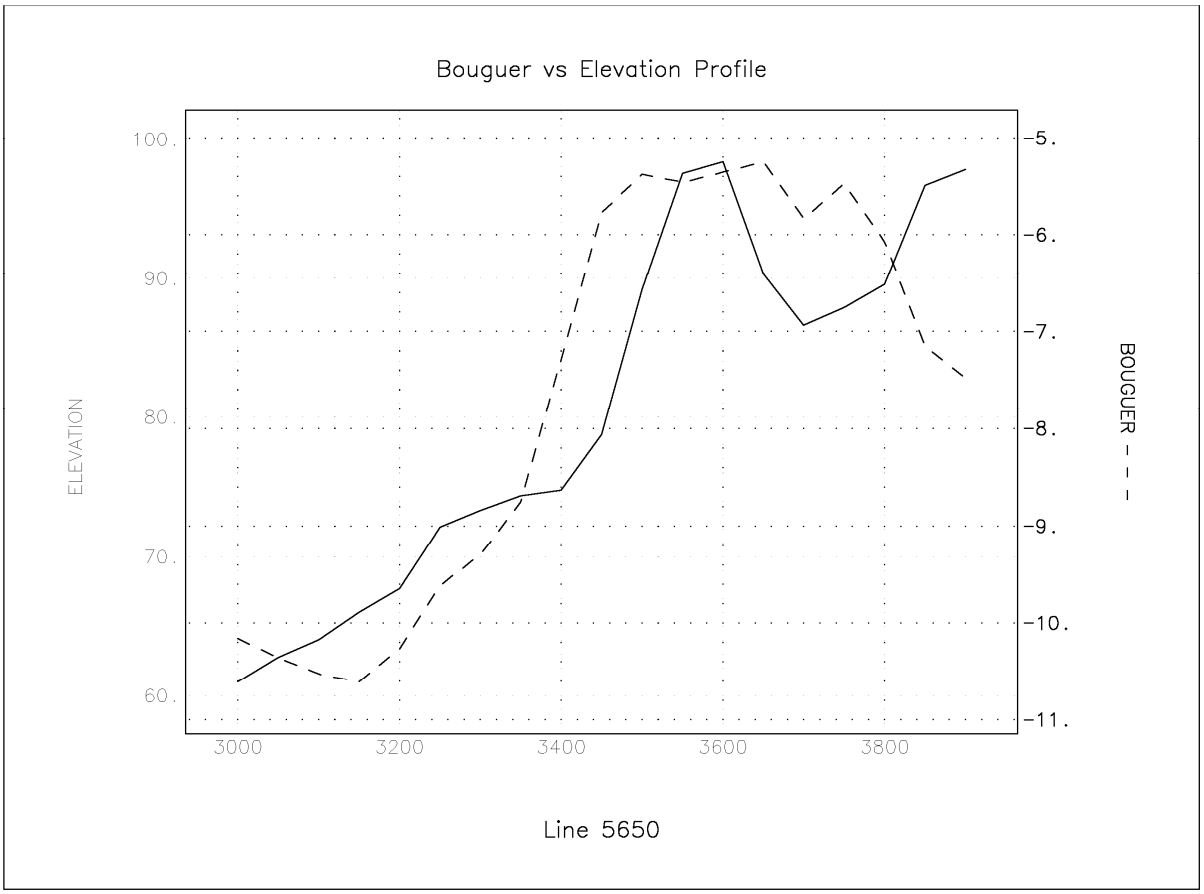
Bouguer vs Elevation Profile
ELEVATION
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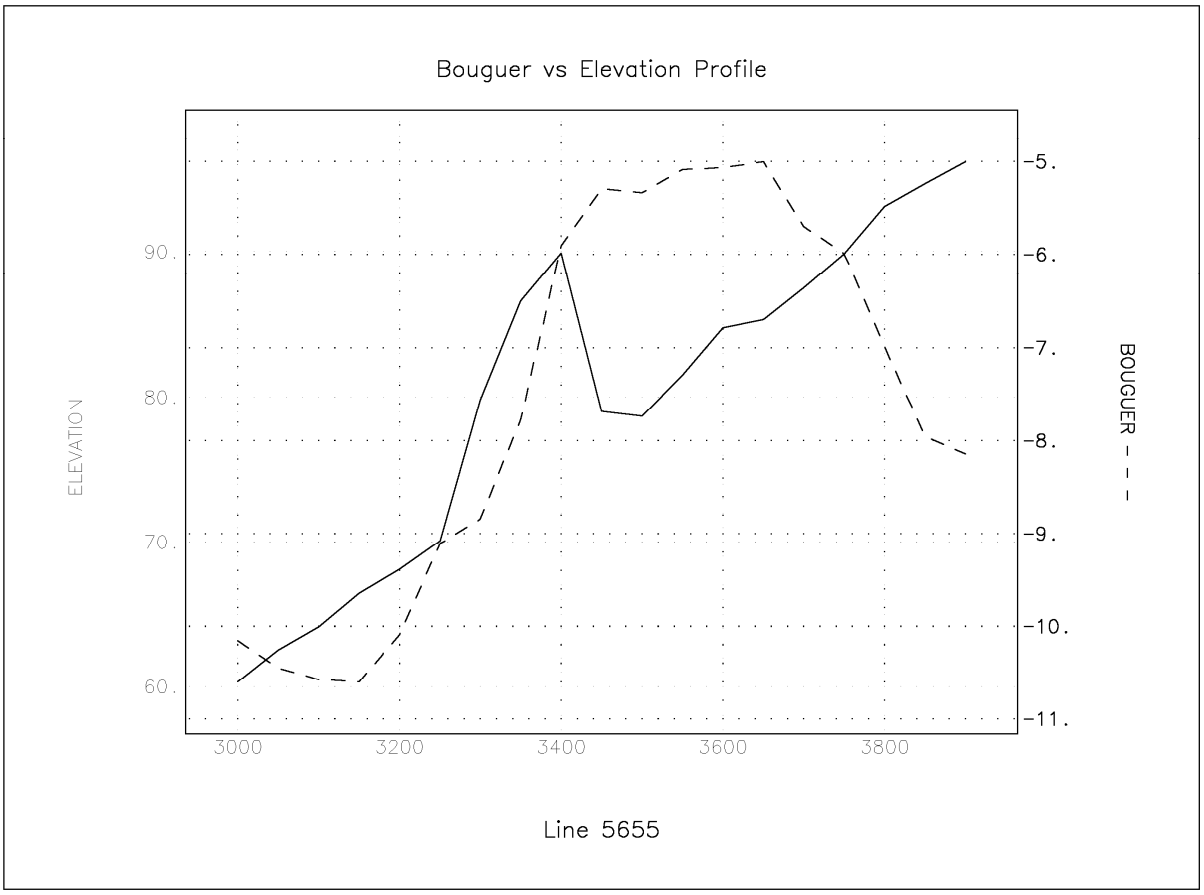
Bouguer vs Elevation Profile
ELEVATION
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80.
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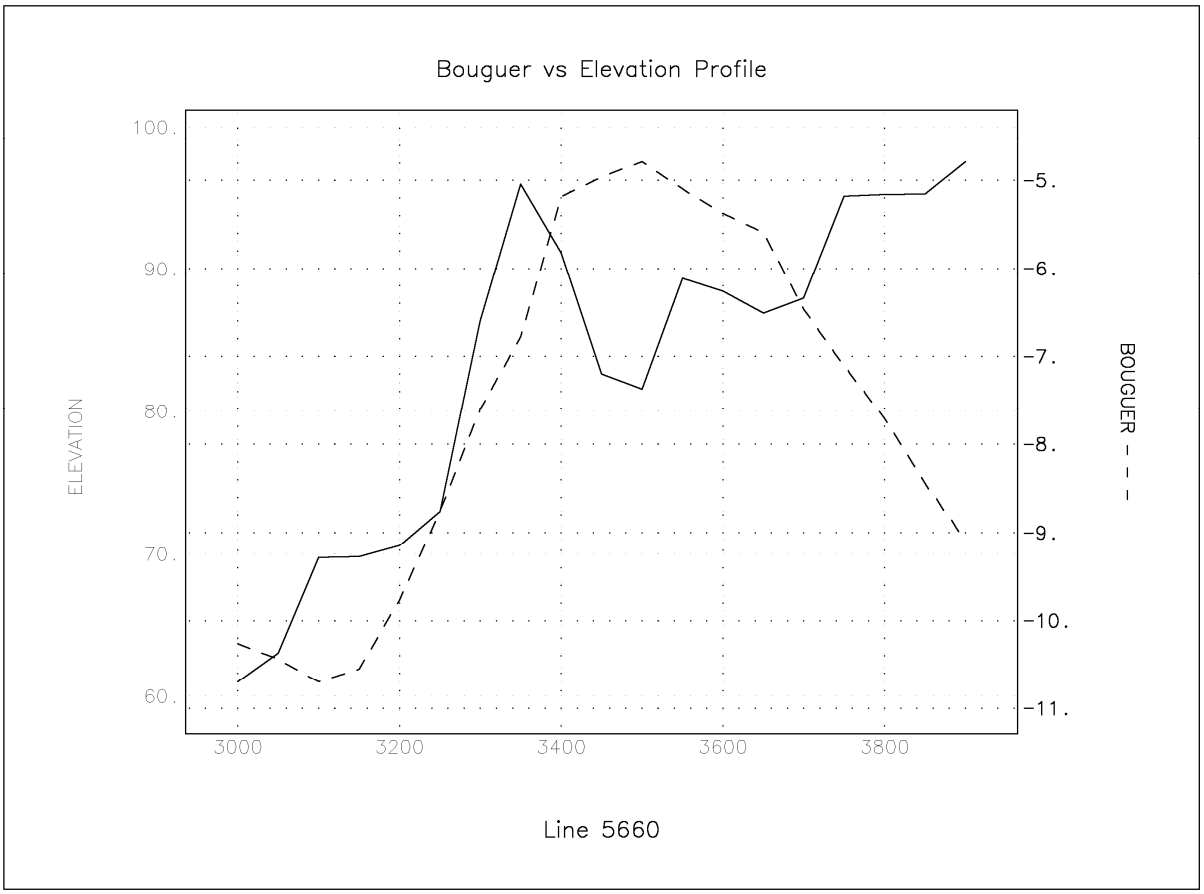
Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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70.
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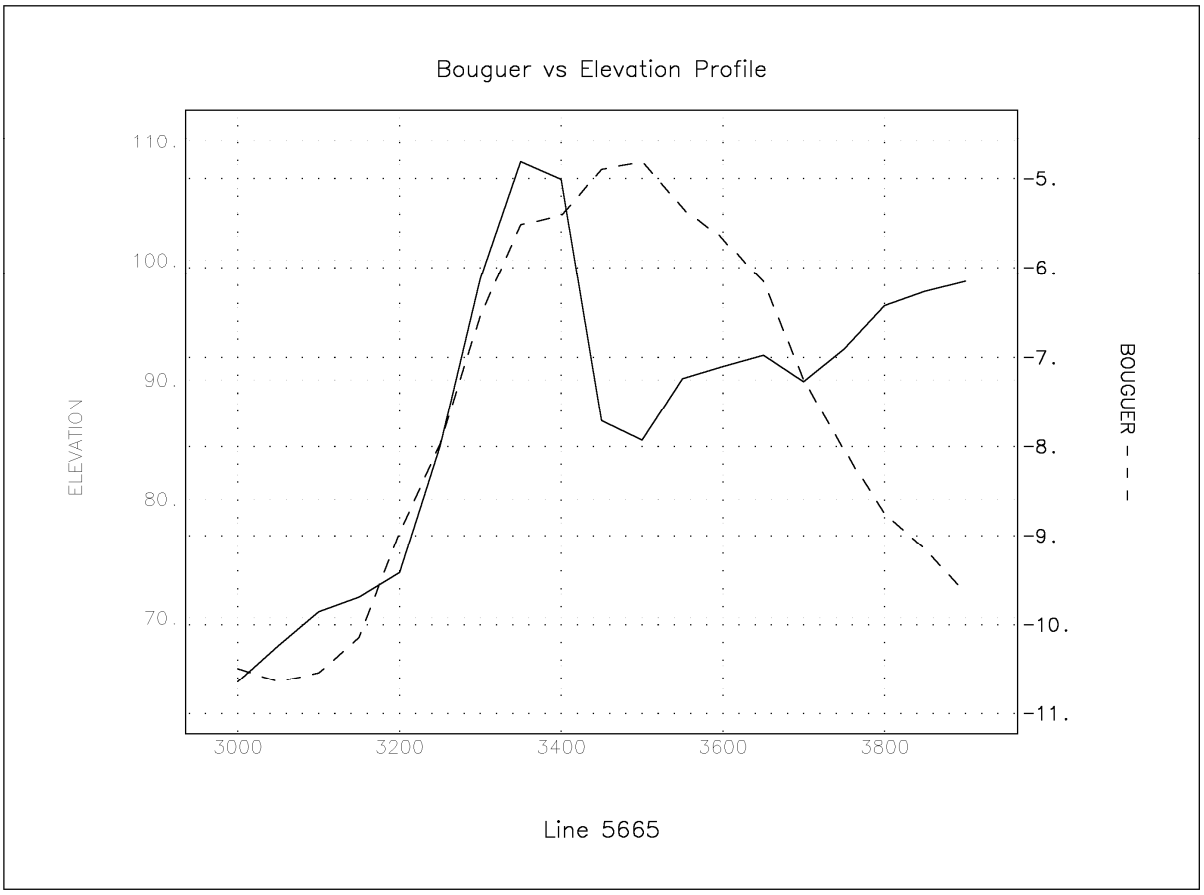
Bouguer vs Elevation Profile
ELEVATION
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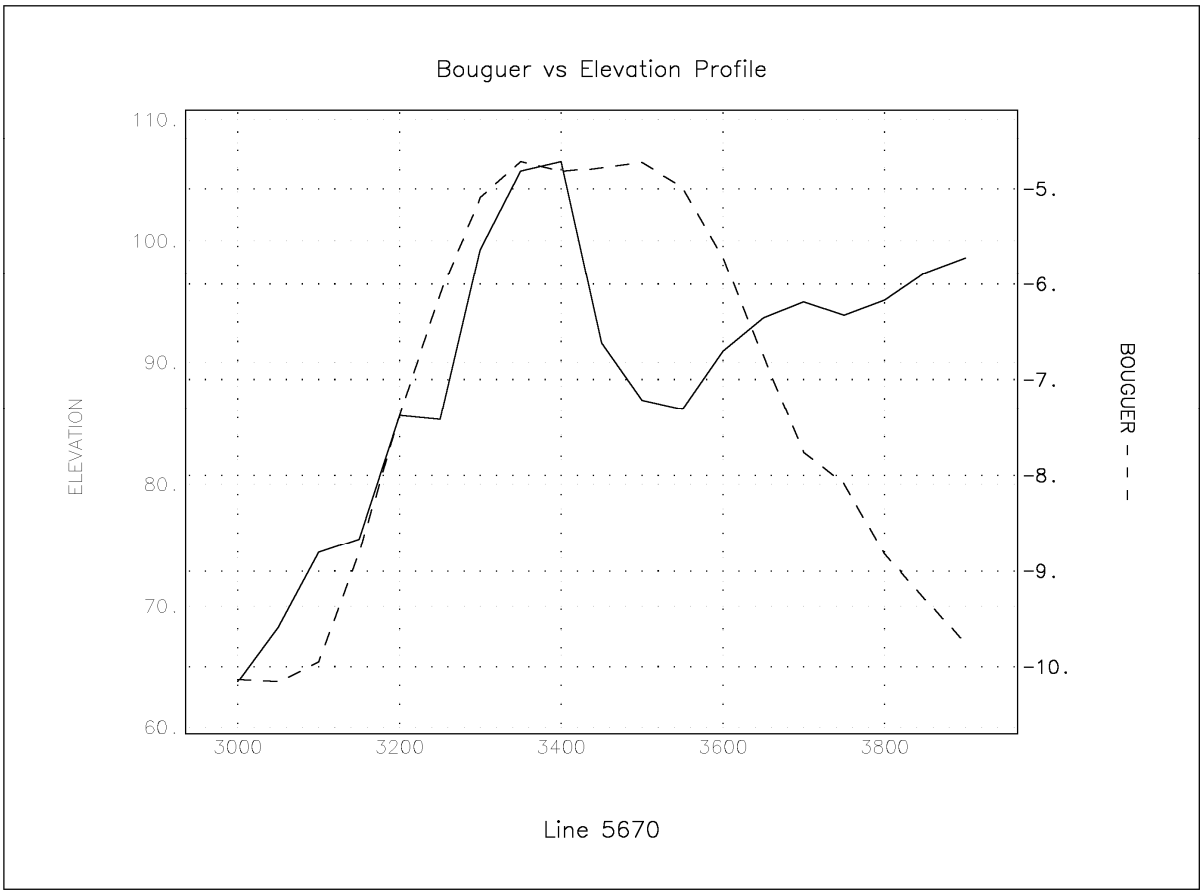
Bouguer vs Elevation Profile
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ELEVATION
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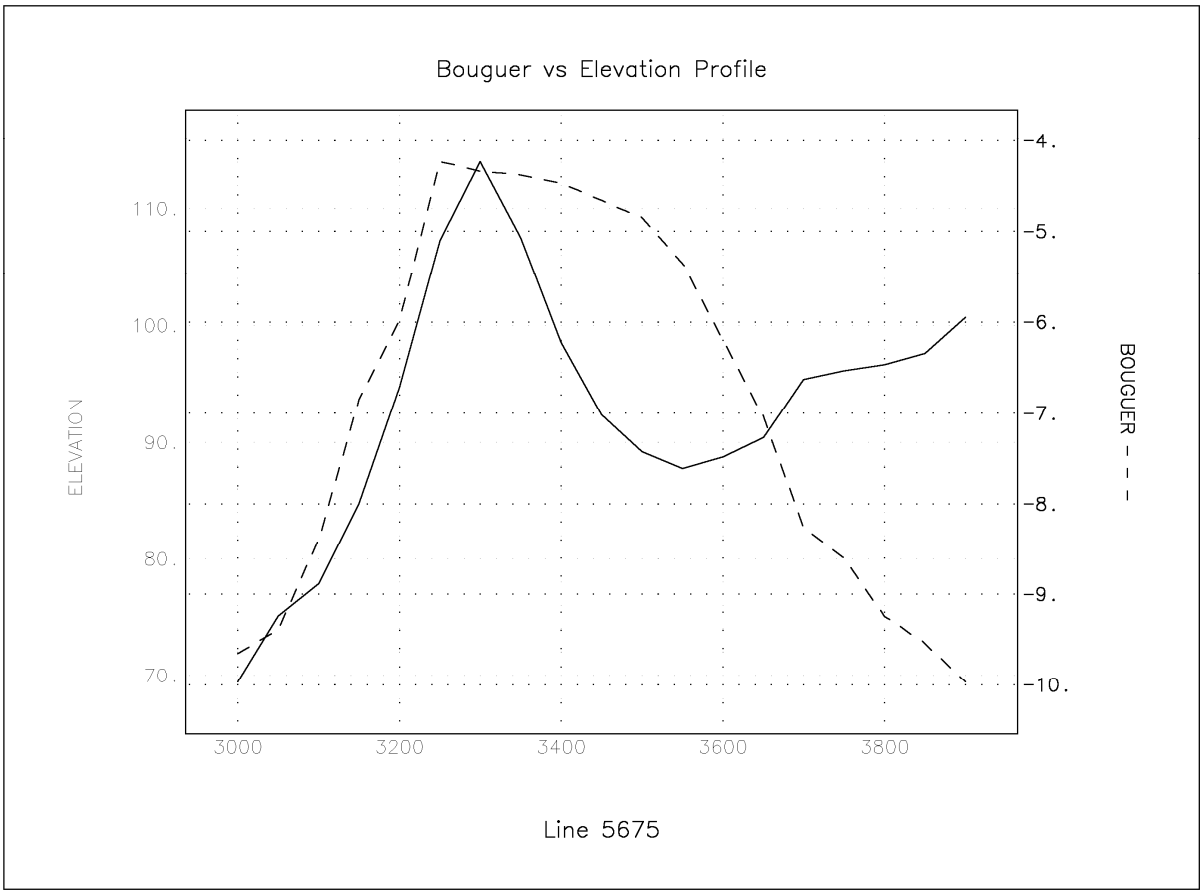
BOUGUER - - -
Line 5670


Bouguer vs Elevation Profile
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ELEVATION
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-6.
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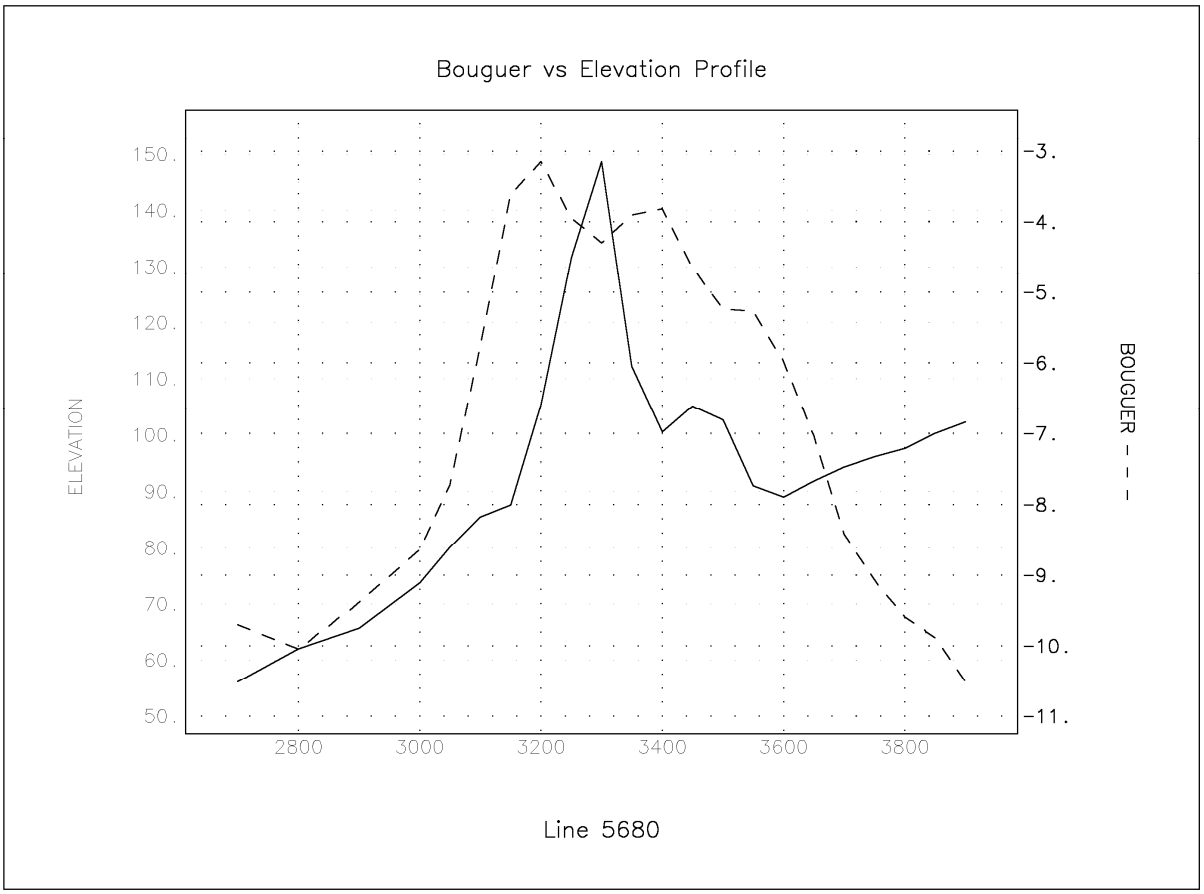
-9.
-10.
BOUGUER - - -
Line 5675


Bouguer vs Elevation Profile
ELEVATION
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120.
110.
100.
90.
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-4.
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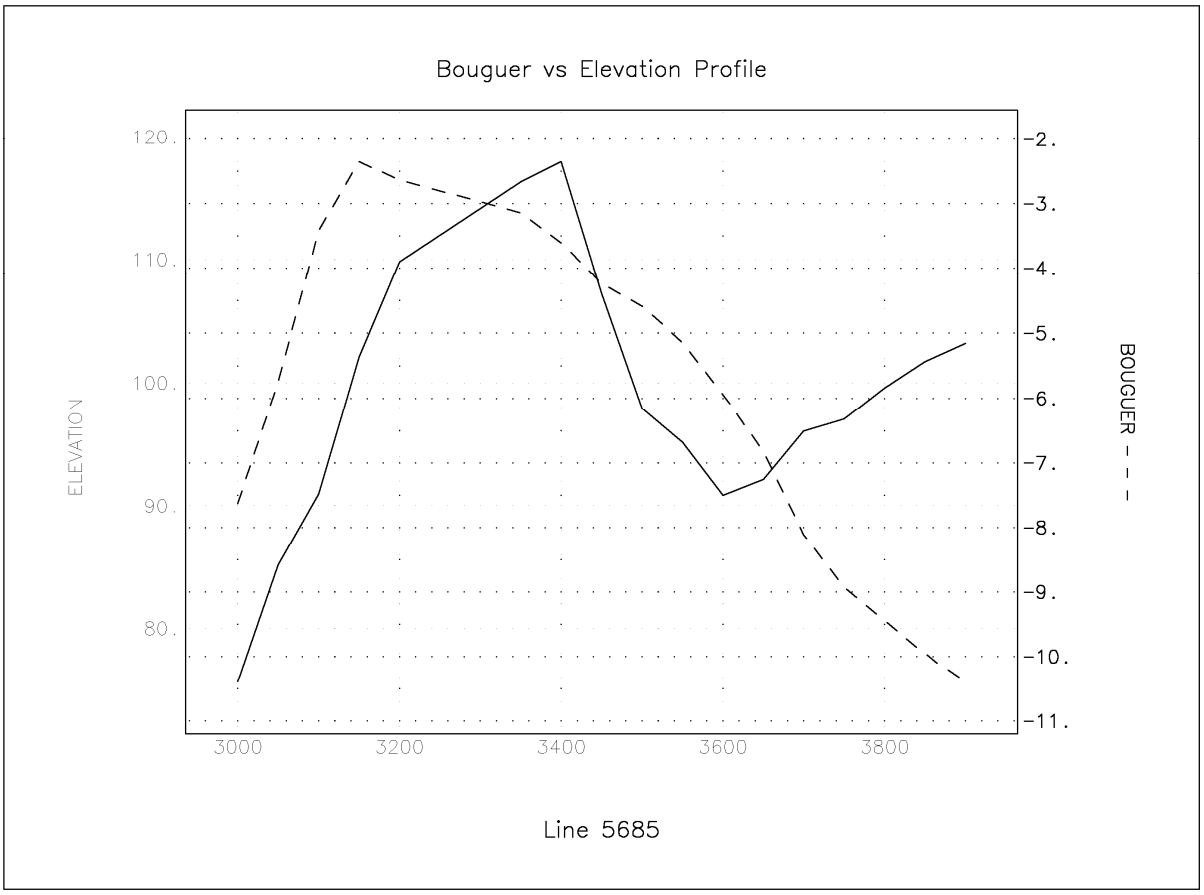
Bouguer vs Elevation Profile
ELEVATION
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80.
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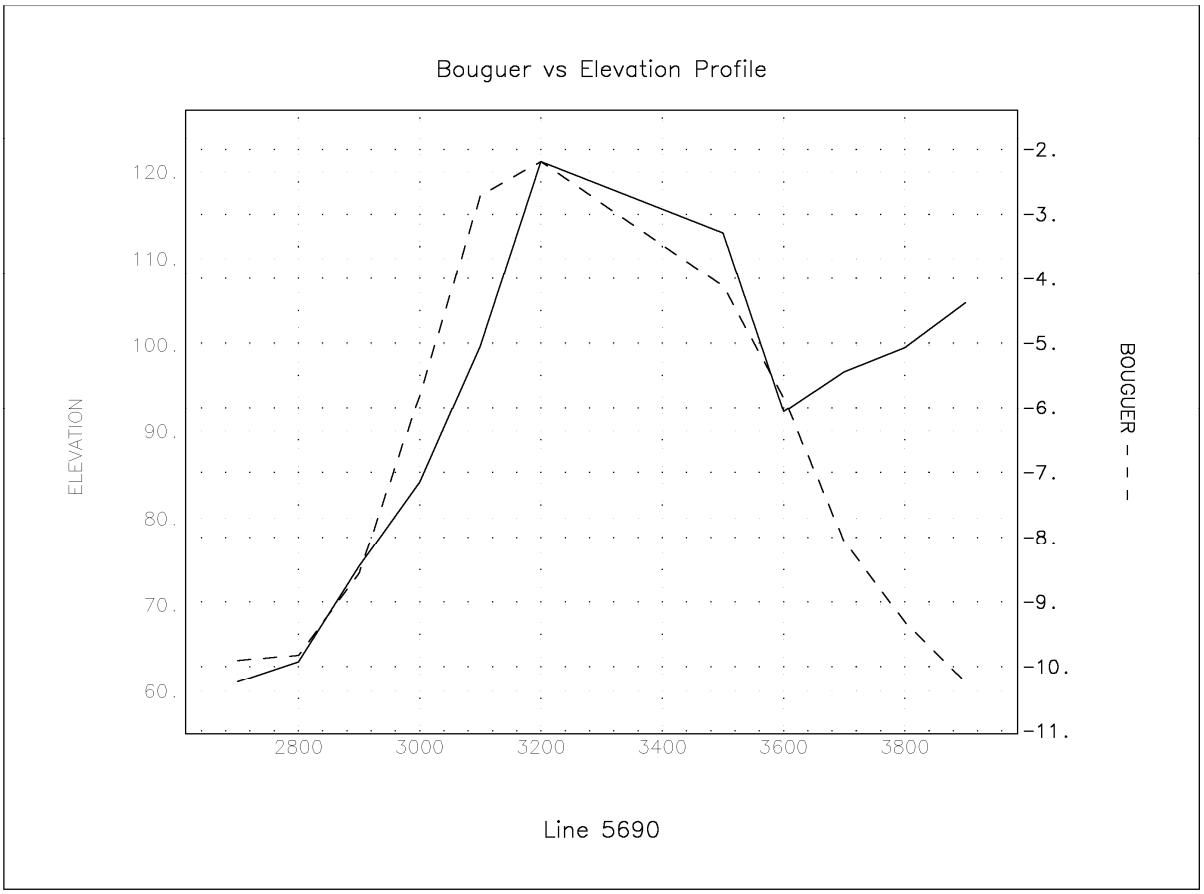
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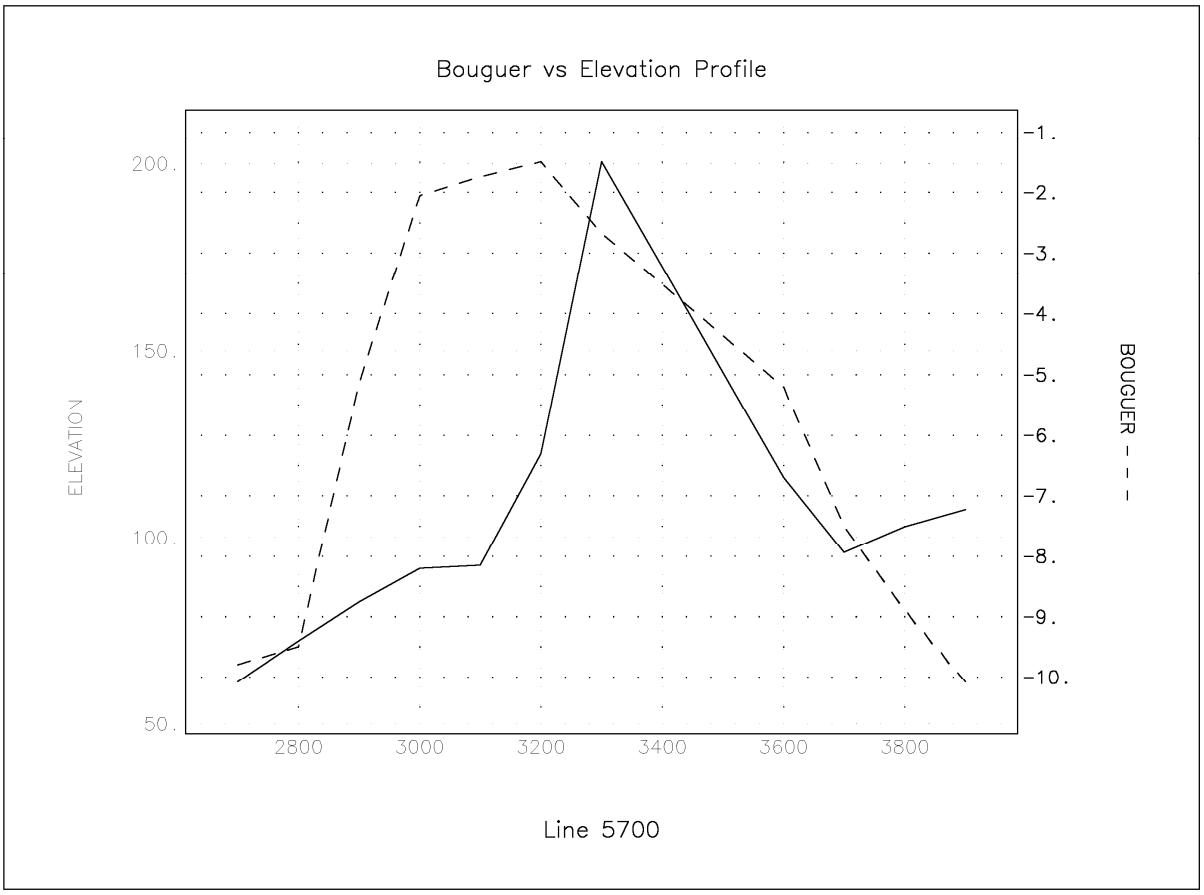
Bouguer vs Elevation Profile
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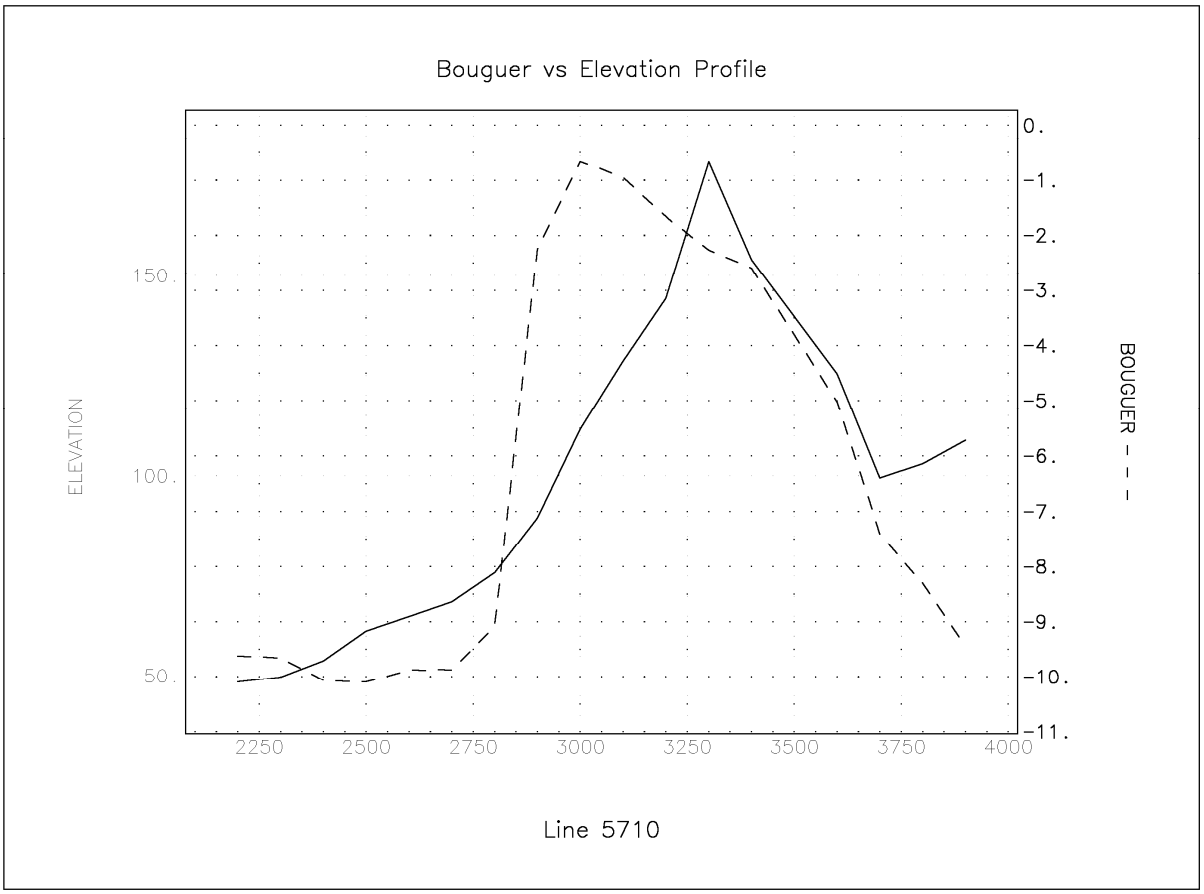
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BOUGUER - - -
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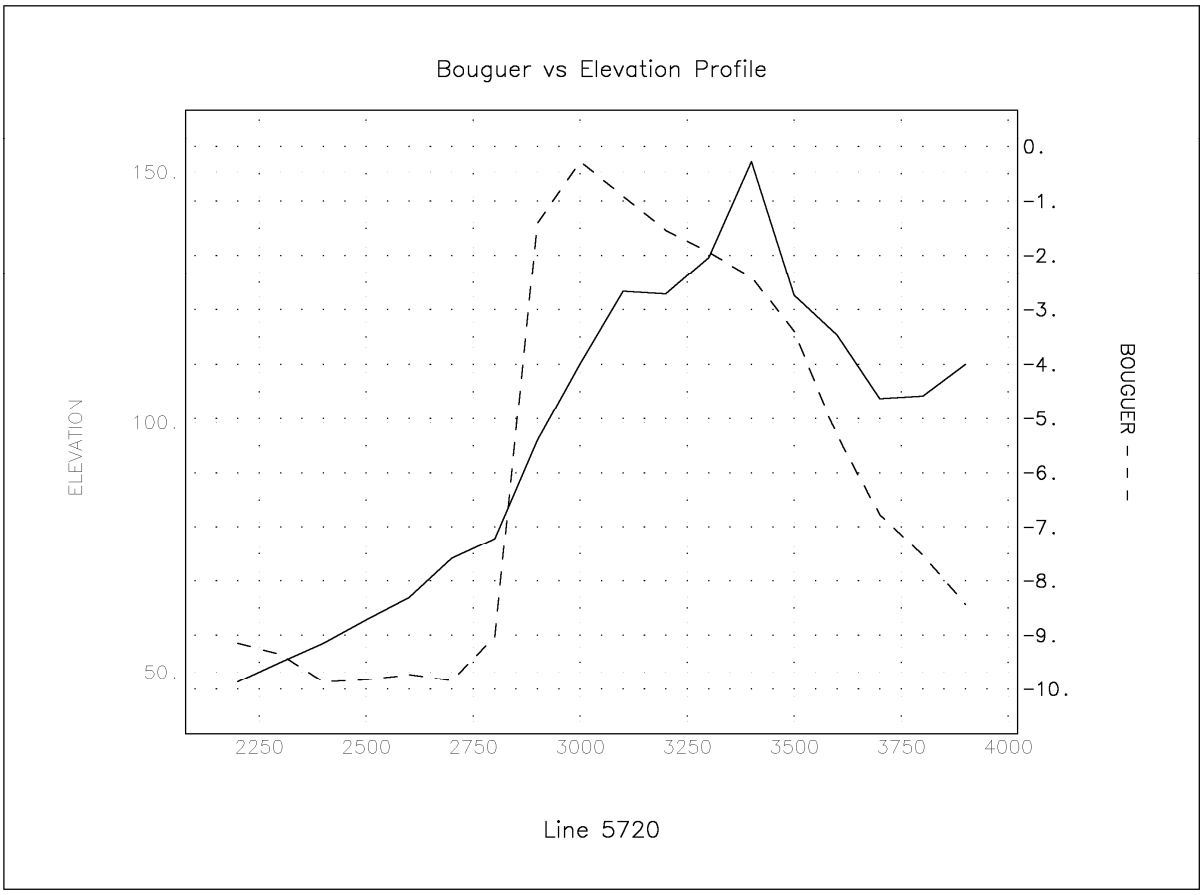
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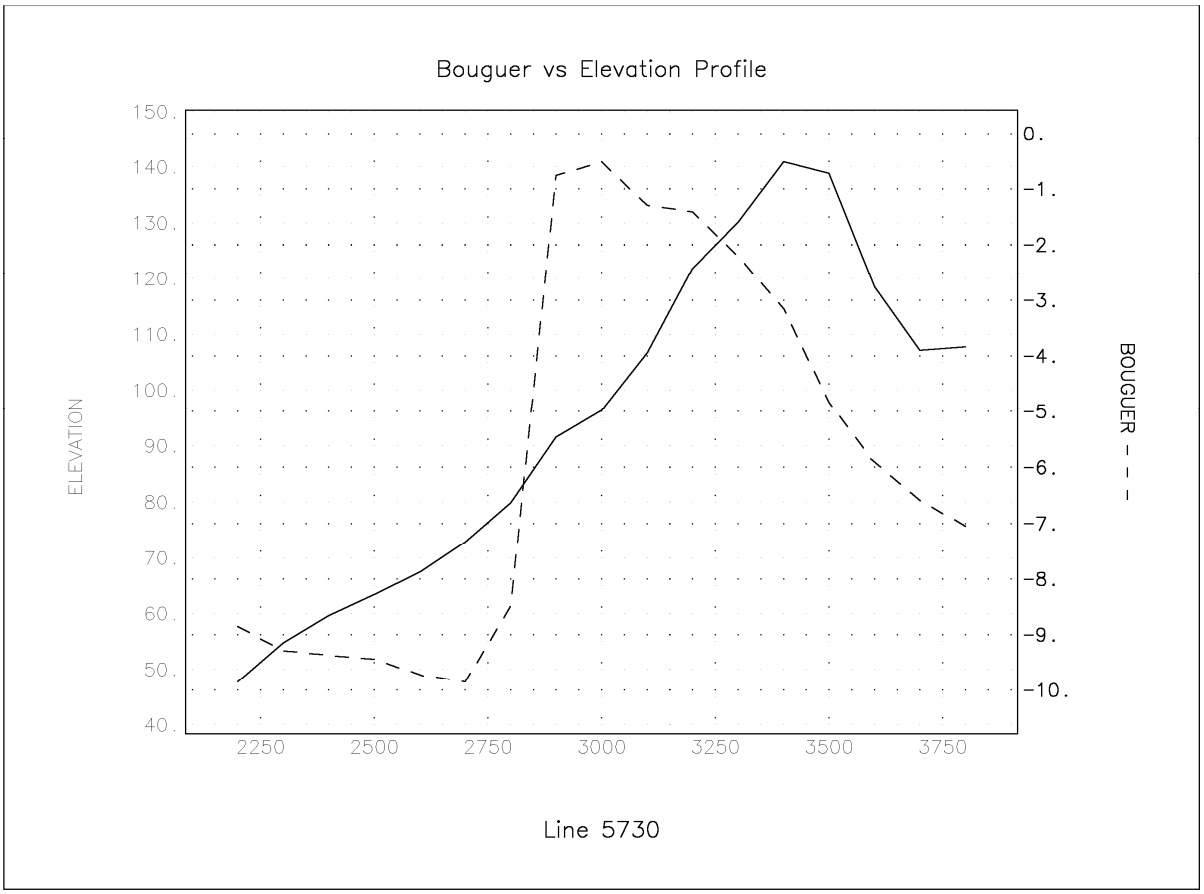
Bouguer vs Elevation Profile
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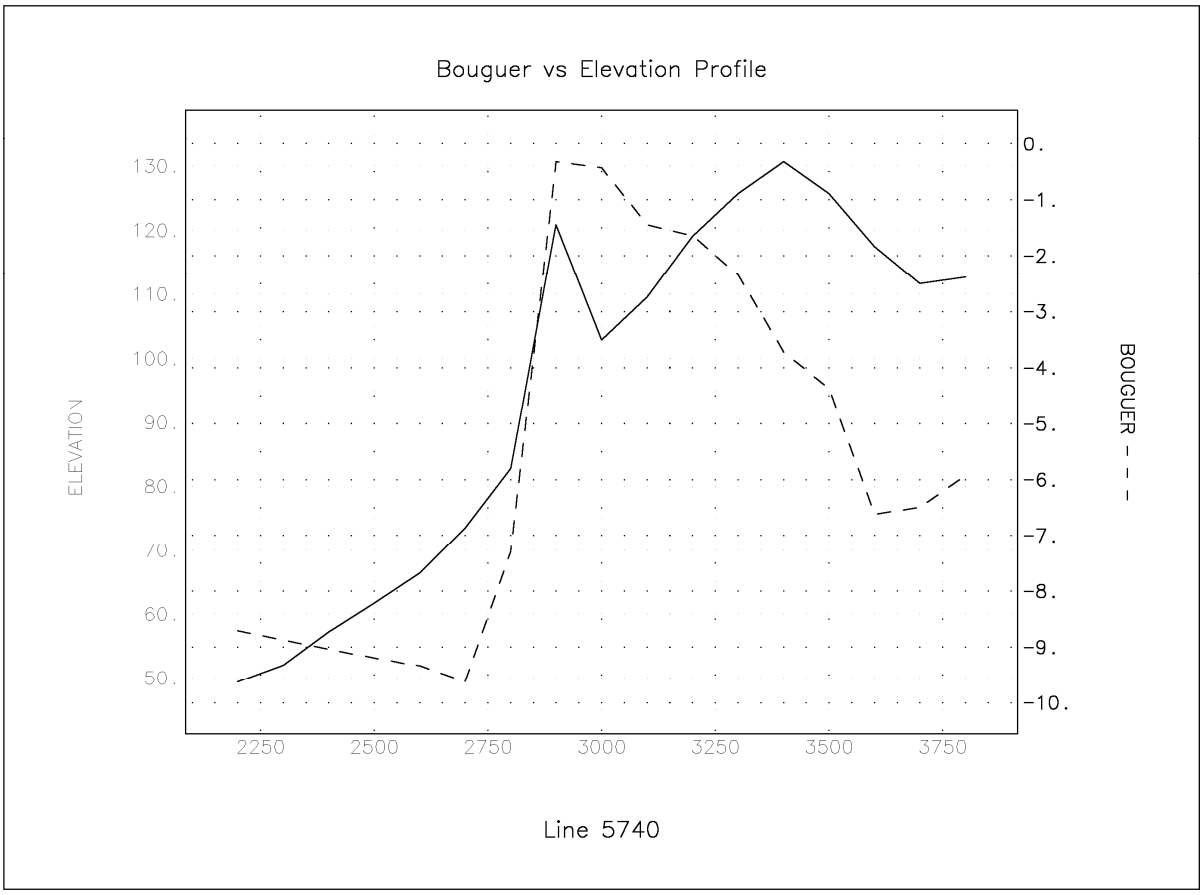
Bouguer vs Elevation Profile
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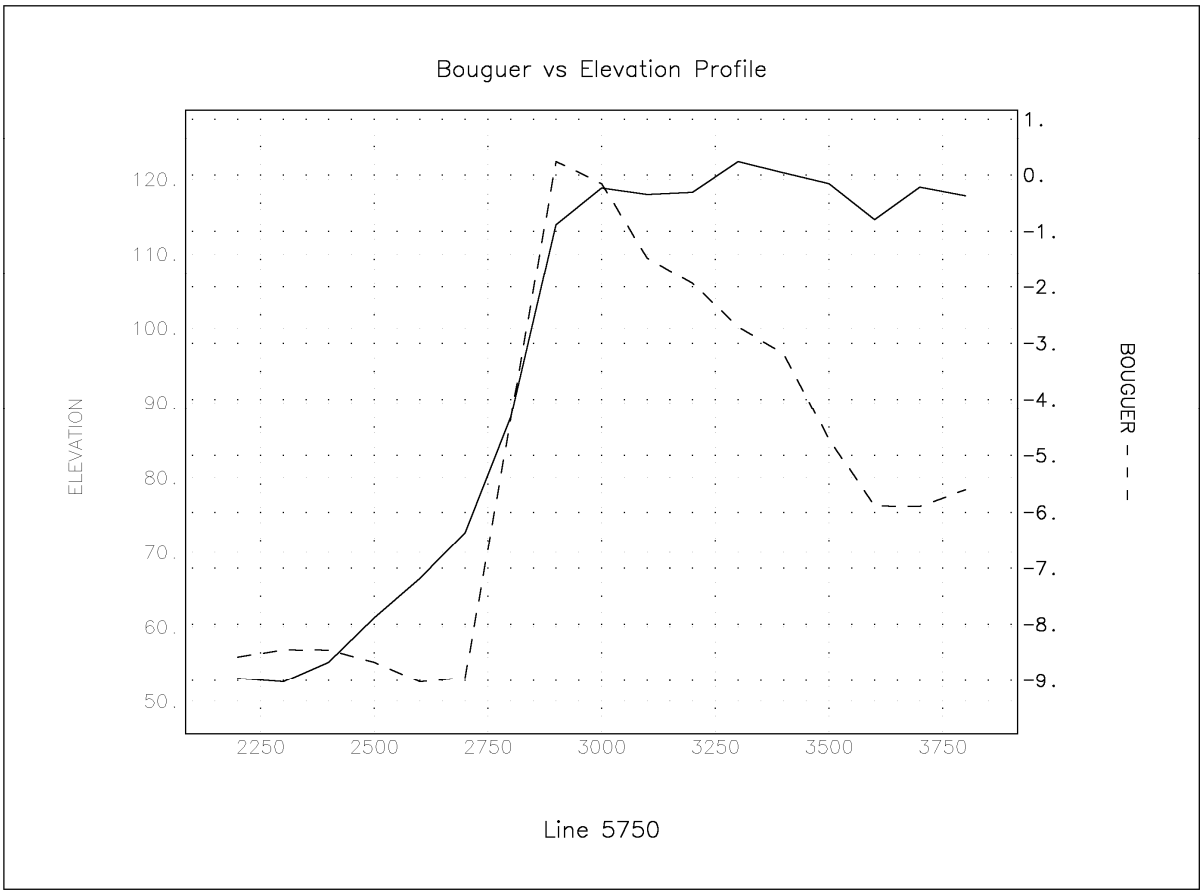
Bouguer vs Elevation Profile
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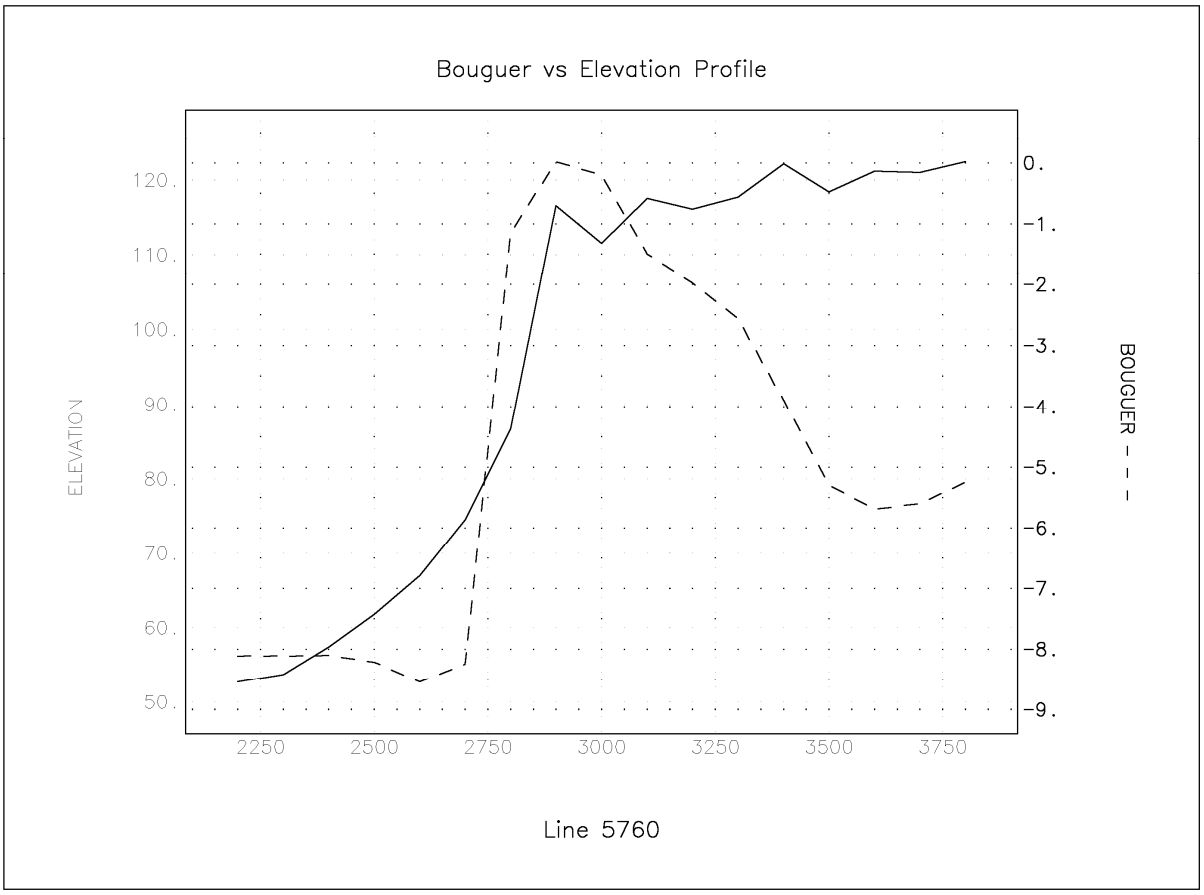
Bouguer vs Elevation Profile
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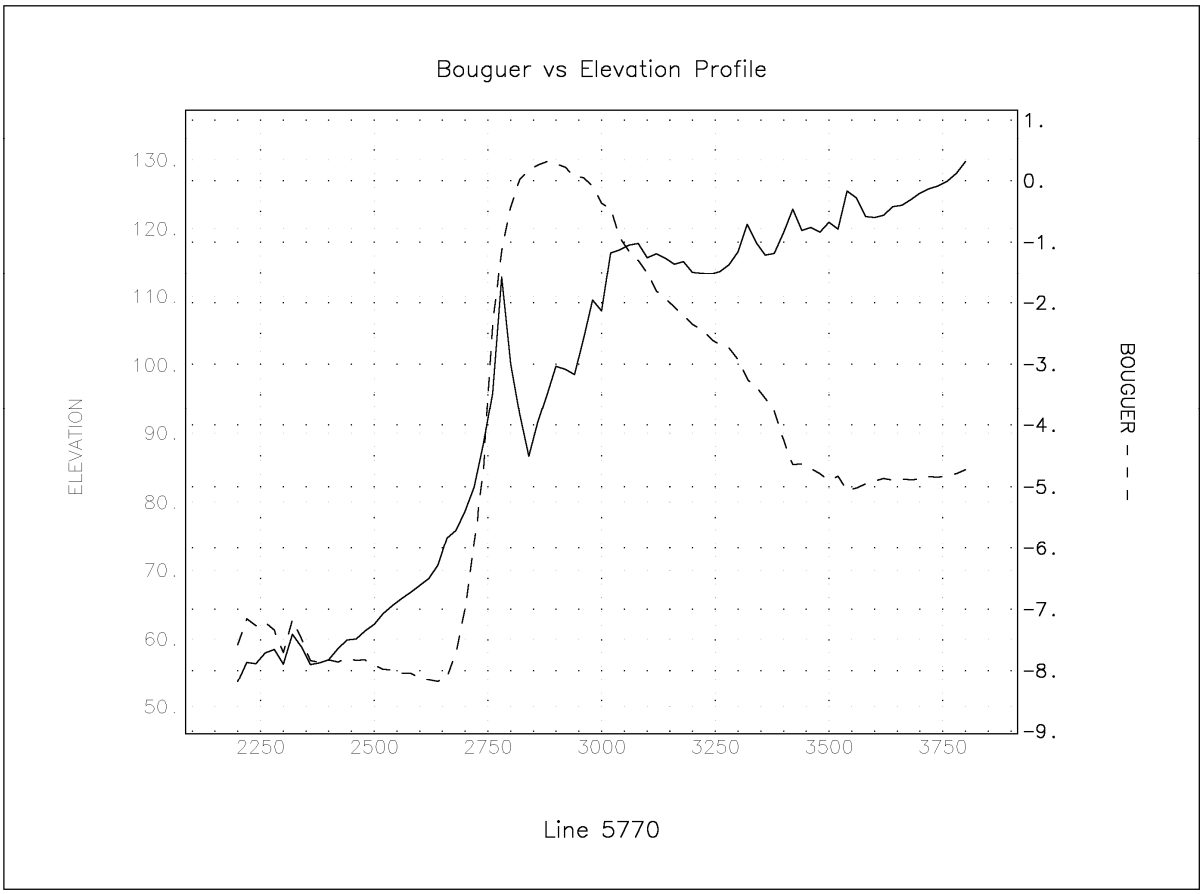
Bouguer vs Elevation Profile
ELEVATION
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-1.
-2.
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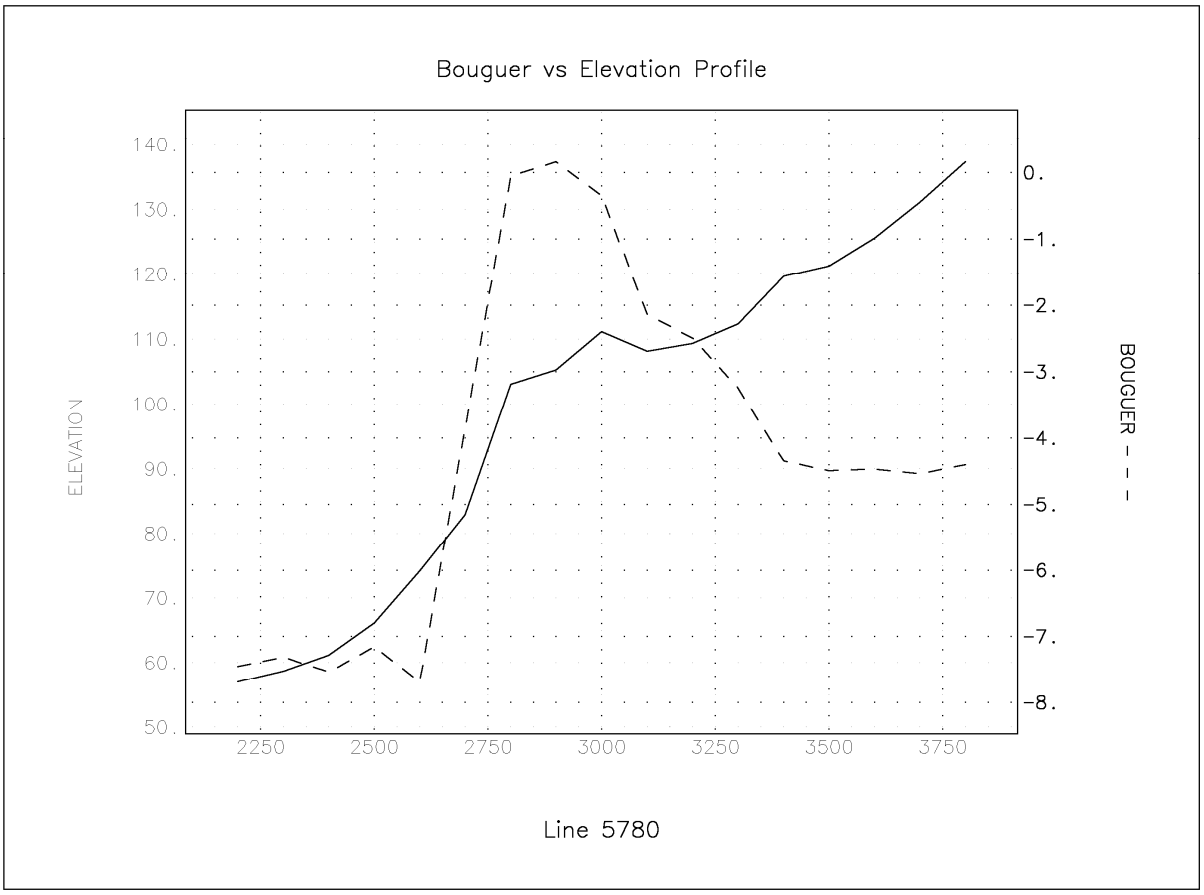
Bouguer vs Elevation Profile
ELEVATION
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-1.
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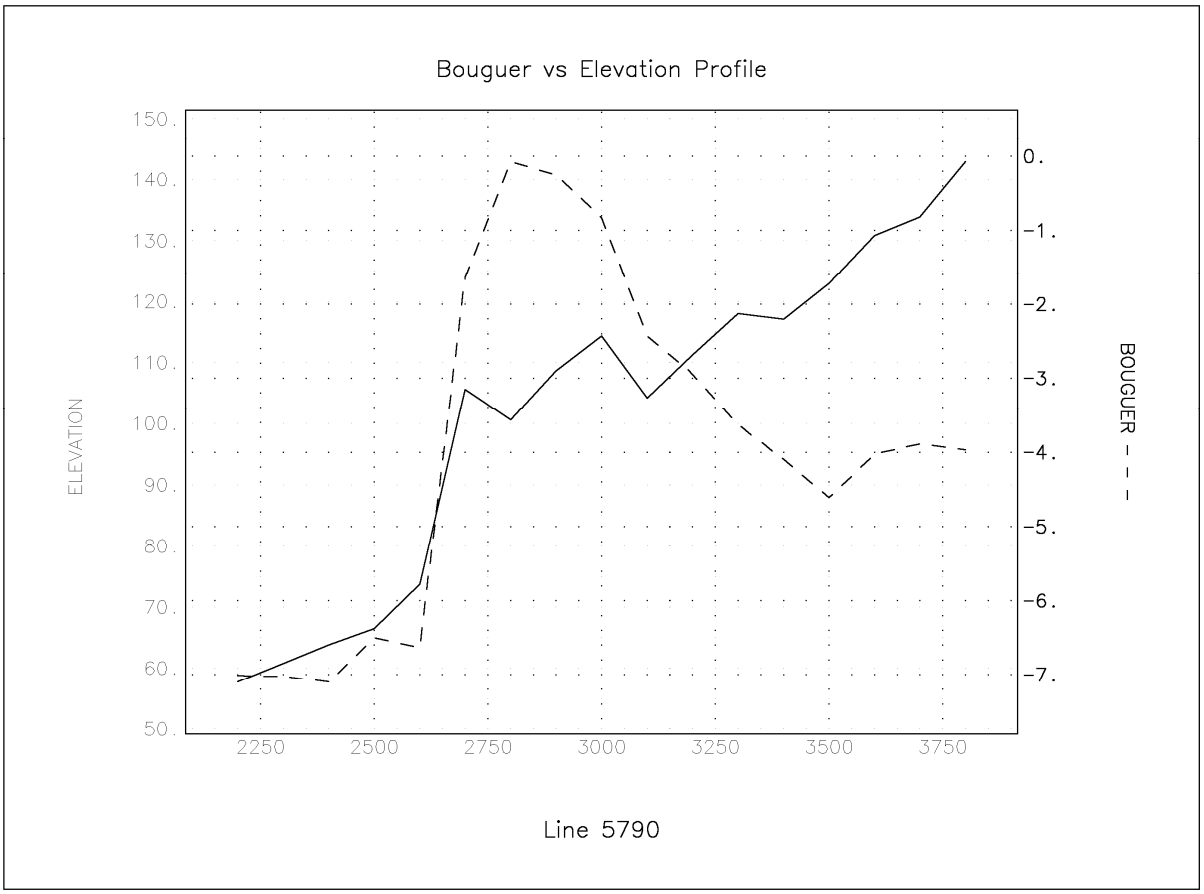
Bouguer vs Elevation Profile
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2500
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3750
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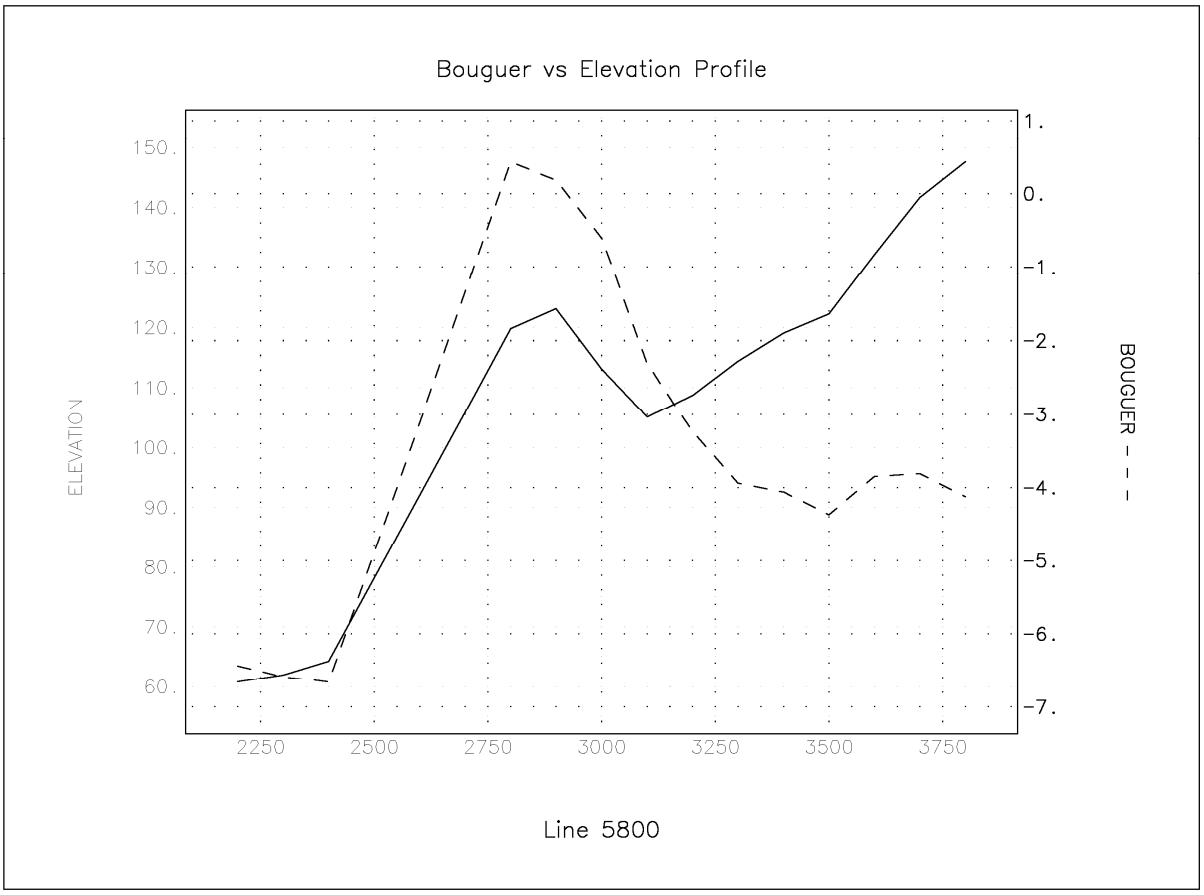
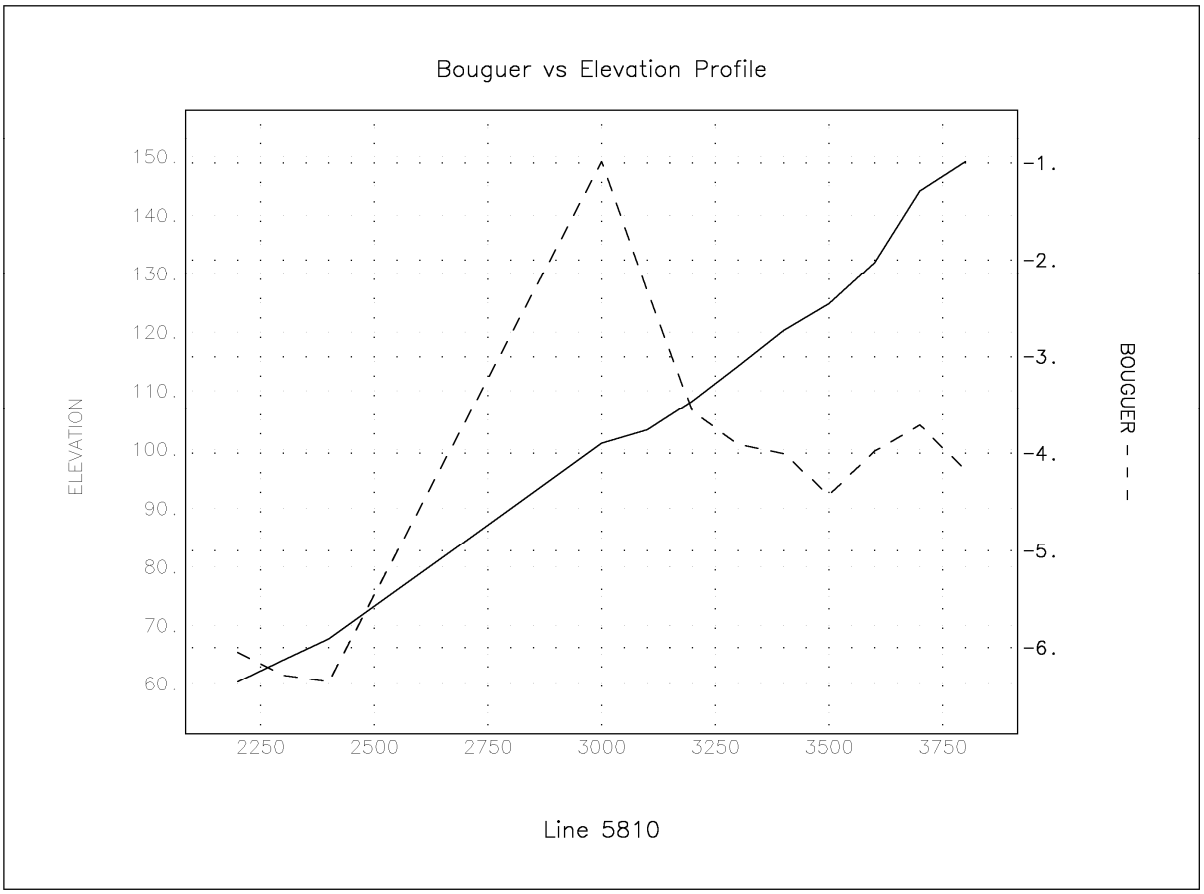
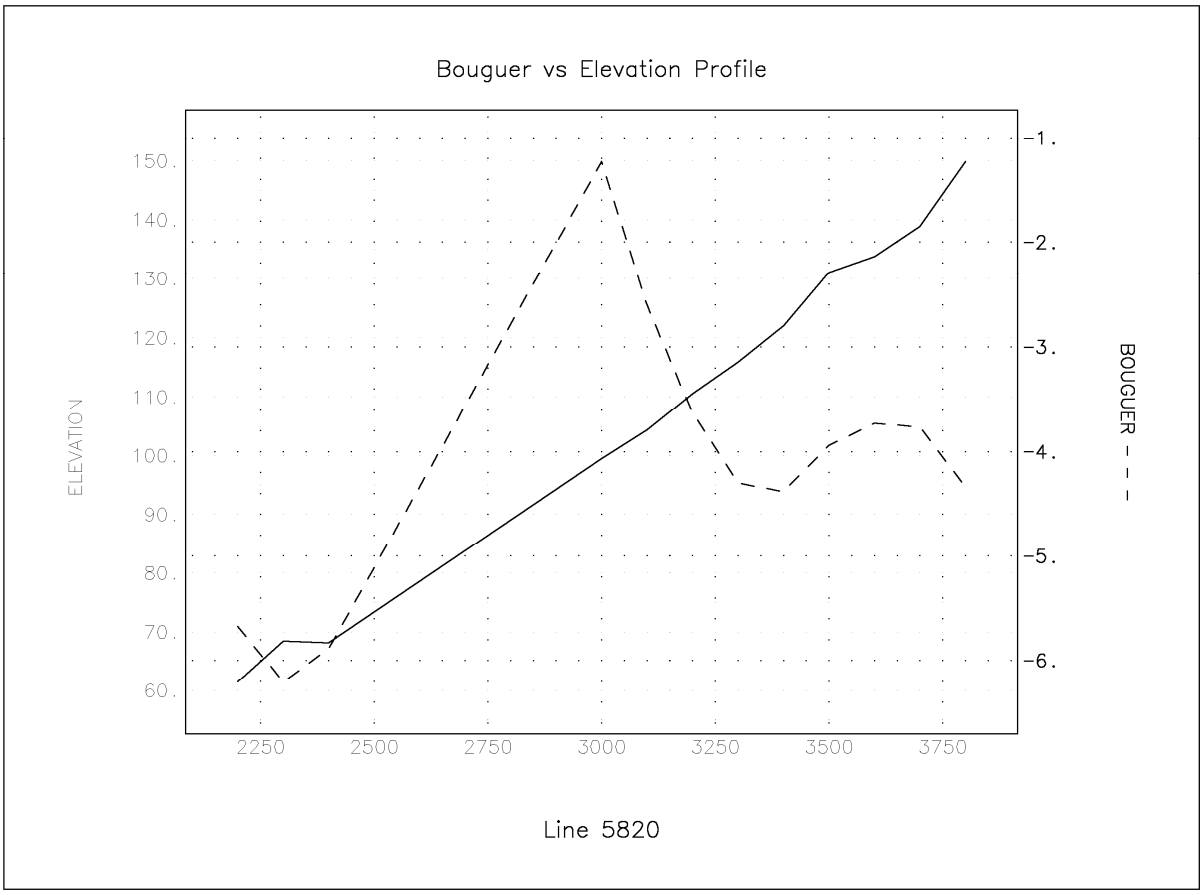
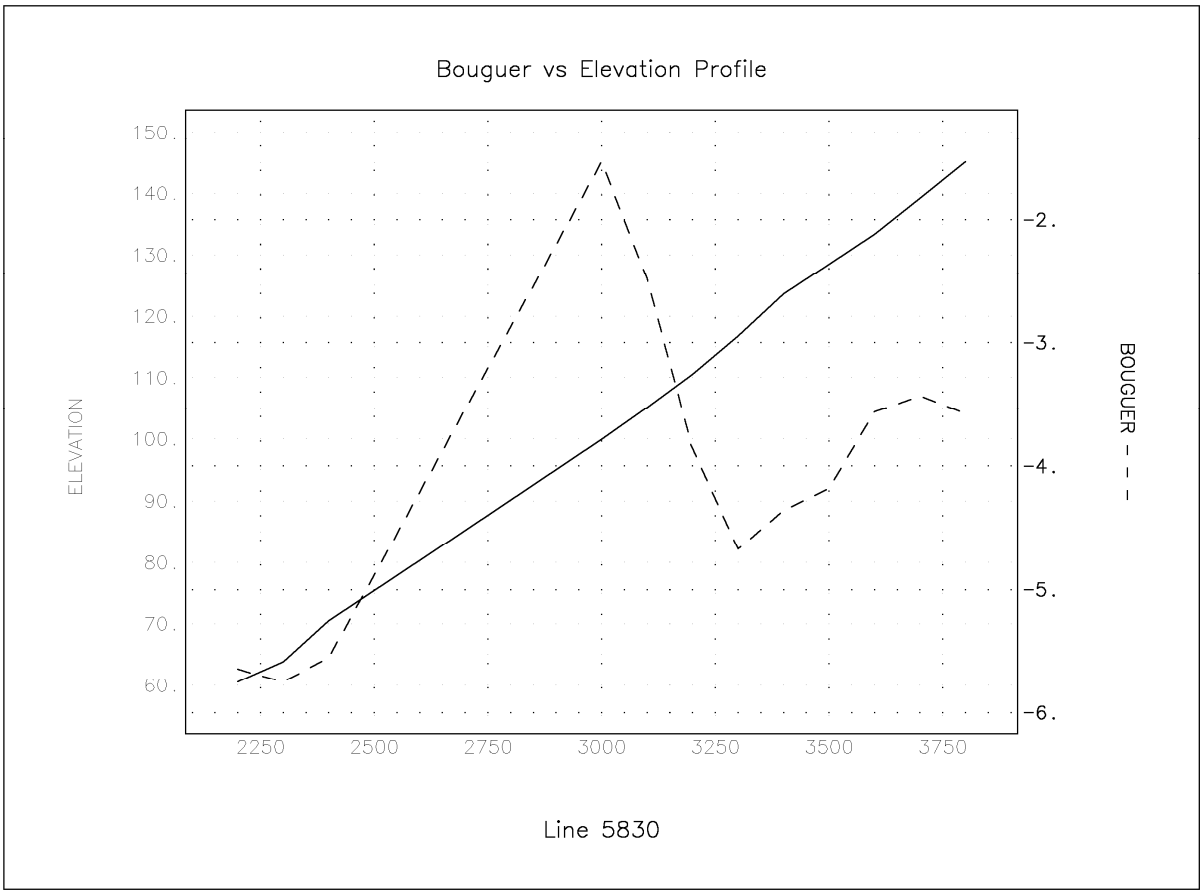
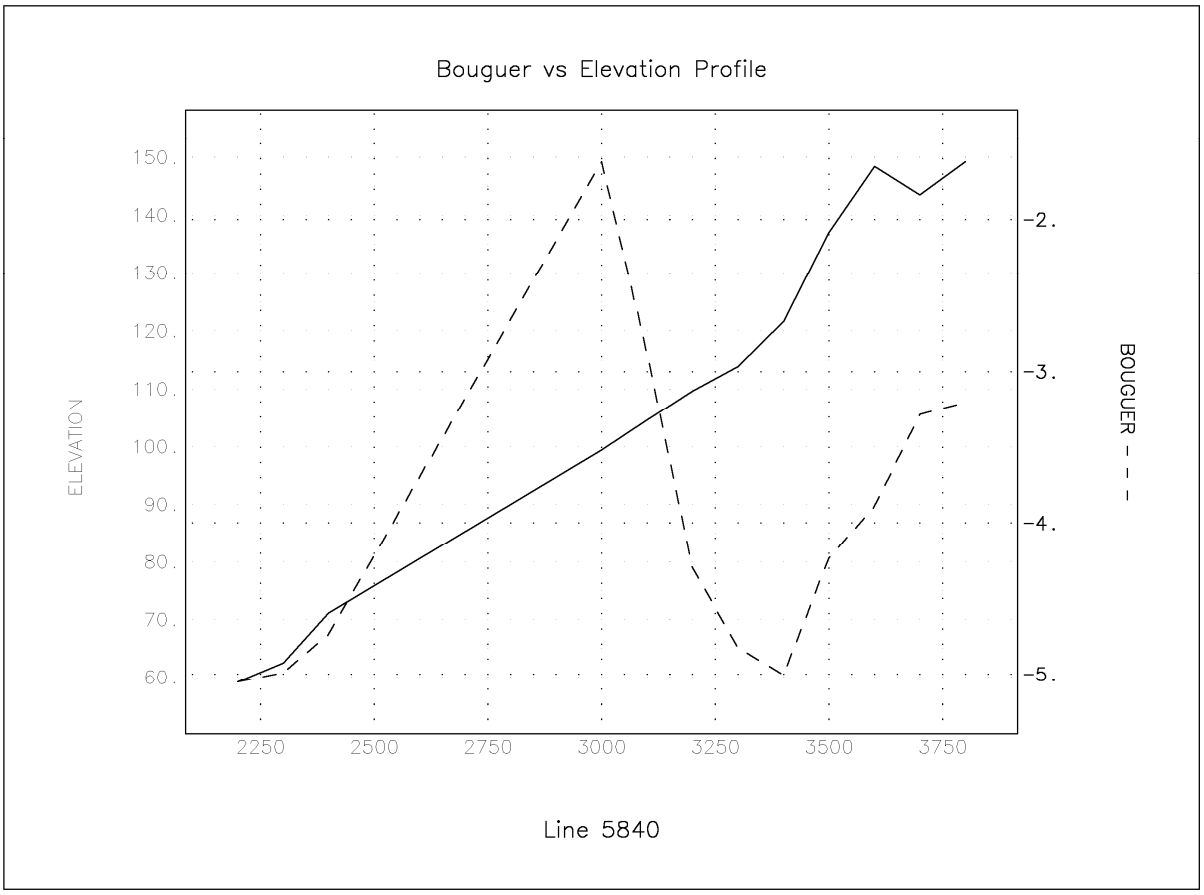
-6.
-7.
BOUGUER - - -
Line 5790

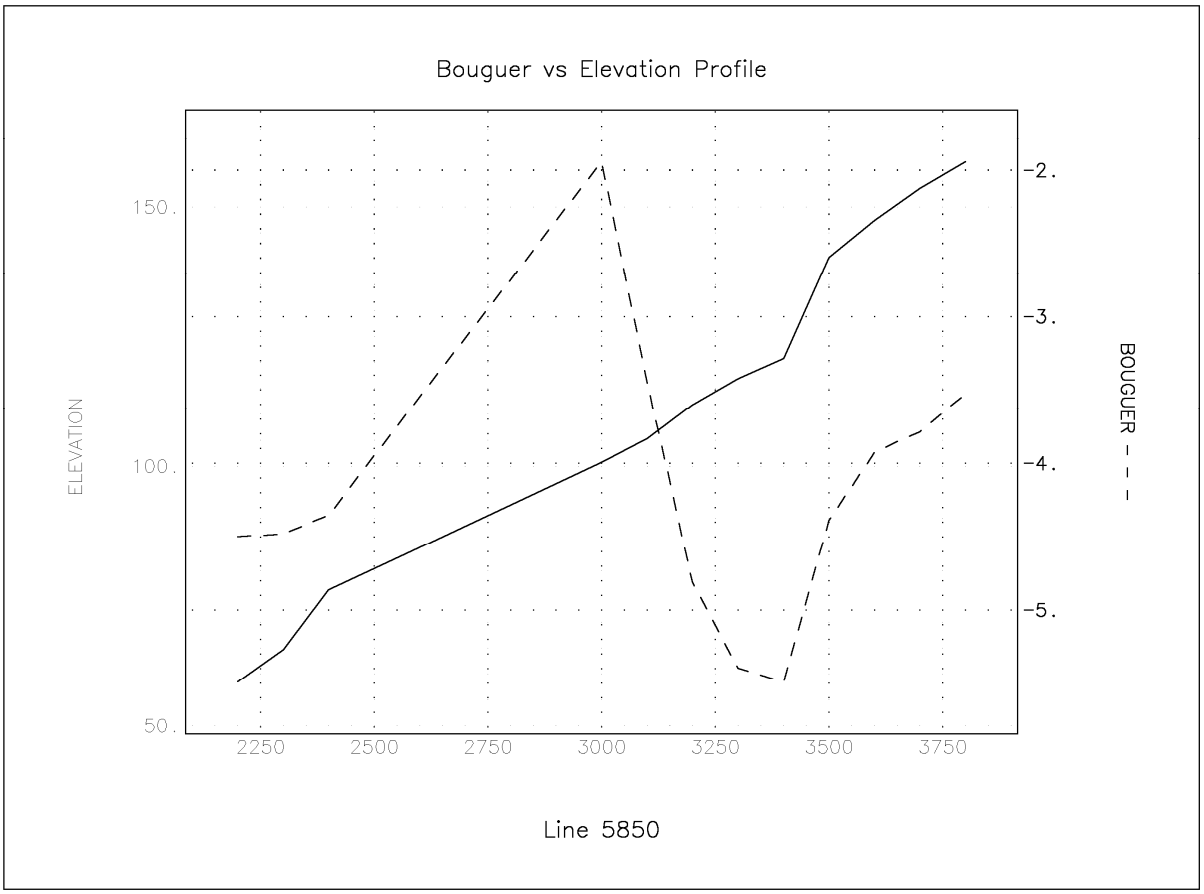

Bouguer vs Elevation Profile
ELEVATION
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
1.
0.
-1.
-2.
-3.
-4.
-5.
-6.
-7.
BOUGUER - - -
Line 5800

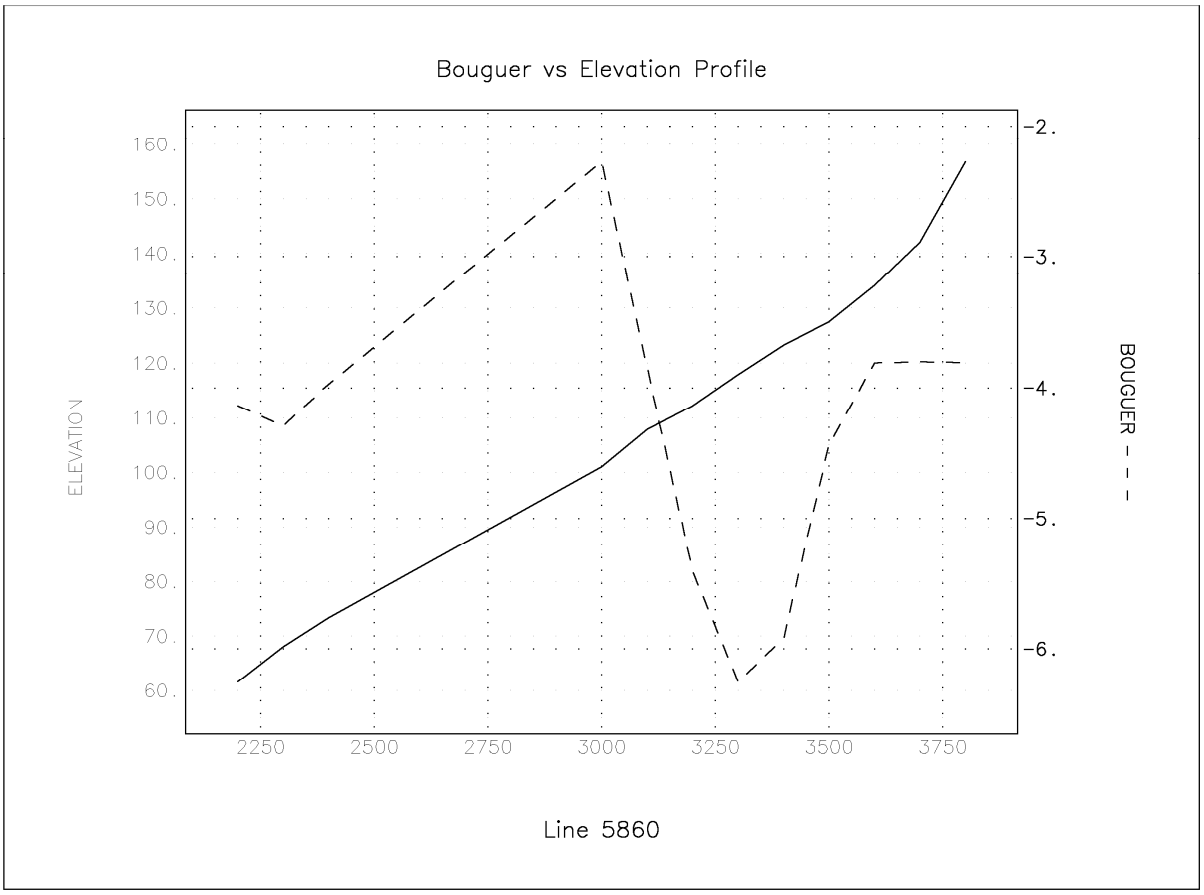

Bouguer vs Elevation Profile
ELEVATION
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
-1.
-2.
-3.
-4.
-5.
-6.
BOUGUER - - -
Line 5810

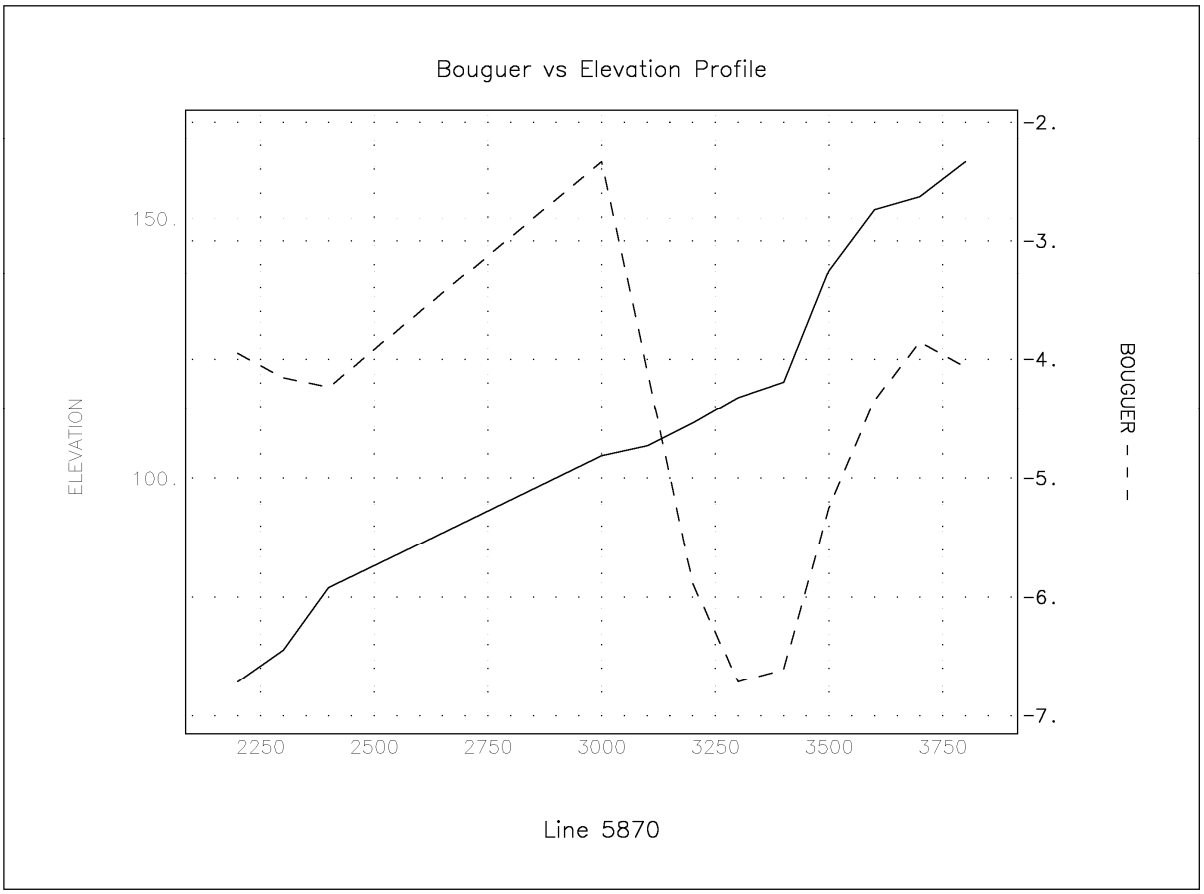

Bouguer vs Elevation Profile
ELEVATION
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
-1.
-2.
-3.
-4.
-5.
-6.
BOUGUER - - -
Line 5820

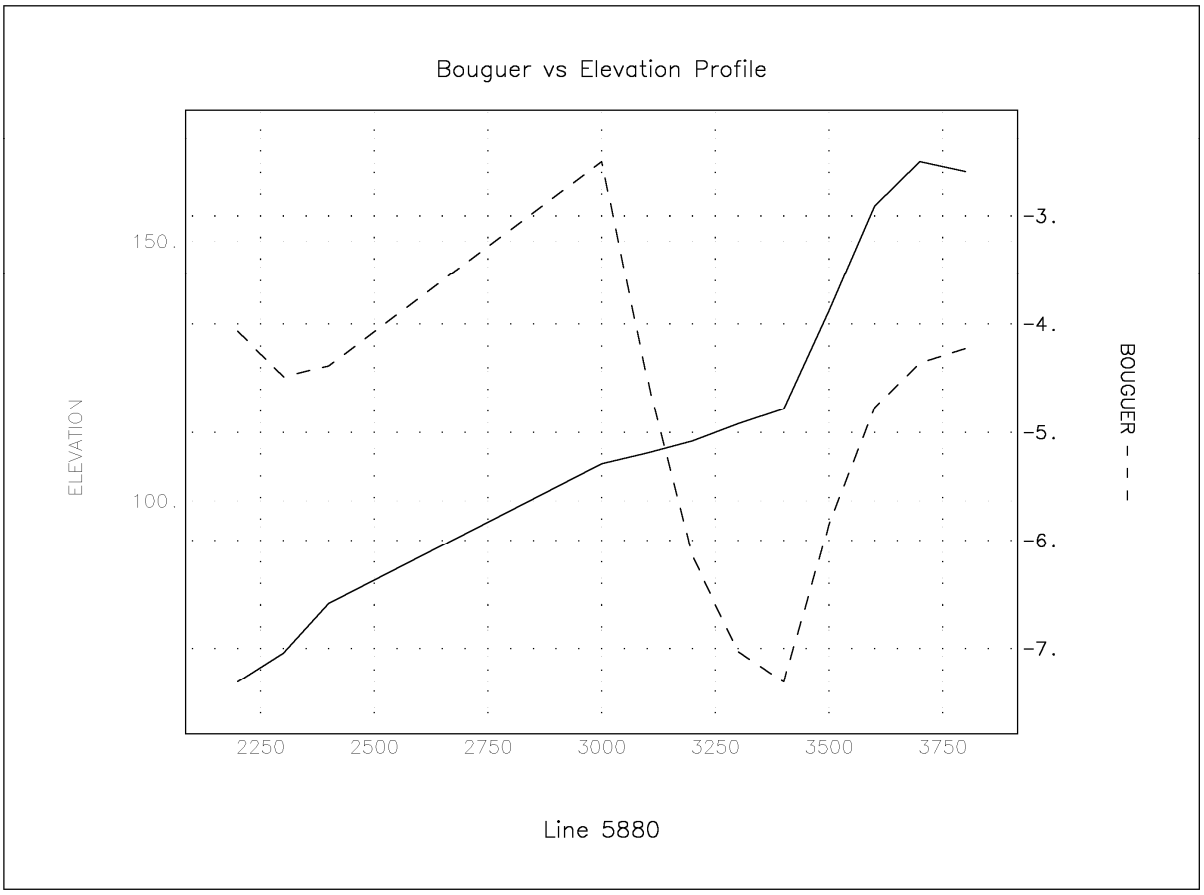

Bouguer vs Elevation Profile
ELEVATION
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
-2.
-3.
-4.
-5.
-6.
BOUGUER - - -
Line 5830

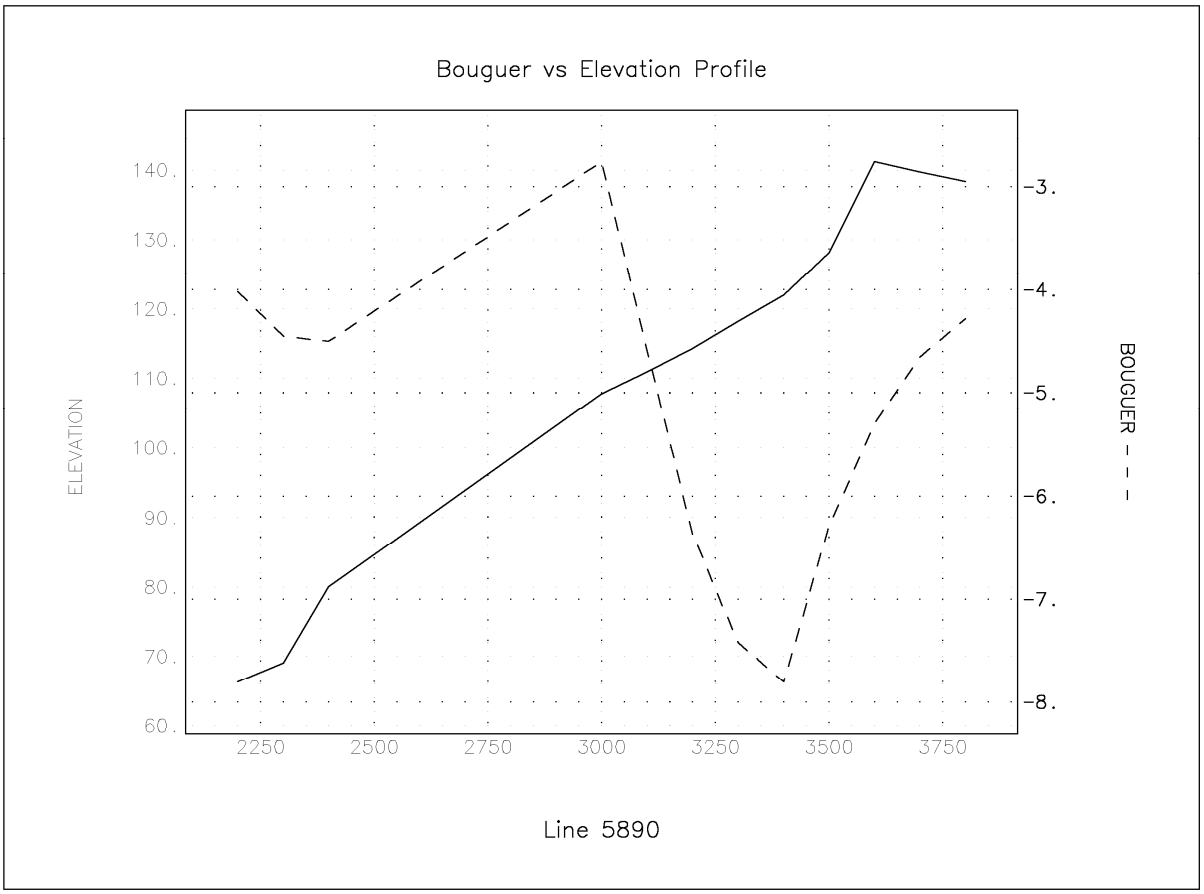

Bouguer vs Elevation Profile
ELEVATION
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
-2.
-3.
-4.
-5.
BOUGUER - - -
Line 5840


Bouguer vs Elevation Profile
ELEVATION
150.
100.
50.
2250
2500
2750
3000
3250
3500
3750
-2.
-3.
-4.
-5.
BOUGUER - - -
Line 5850


Bouguer vs Elevation Profile
ELEVATION
160.
150.
140.
130.
120.
110.
100.
90.
80.
70.
60.
2250
2500
2750
3000
3250
3500
3750
-2.
-3.
-4.
-5.
-6.
BOUGUER - - -
Line 5860


Bouguer vs Elevation Profile
ELEVATION
150.
100.
-2.
-3.
-4.
-5.
-6.
-7.
BOUGUER - - -
2250
2500
2750
3000
3250
3500
3750
Line 5870


Bouguer vs Elevation Profile
ELEVATION
150.
100.
-3.
-4.
-5.
-6.
-7.
BOUGUER - - -
2250
2500
2750
3000
3250
3500
3750
Line 5880


Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
140.
130.
120.
110.
100.
90.
80.
70.
60.
-3.
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-6.
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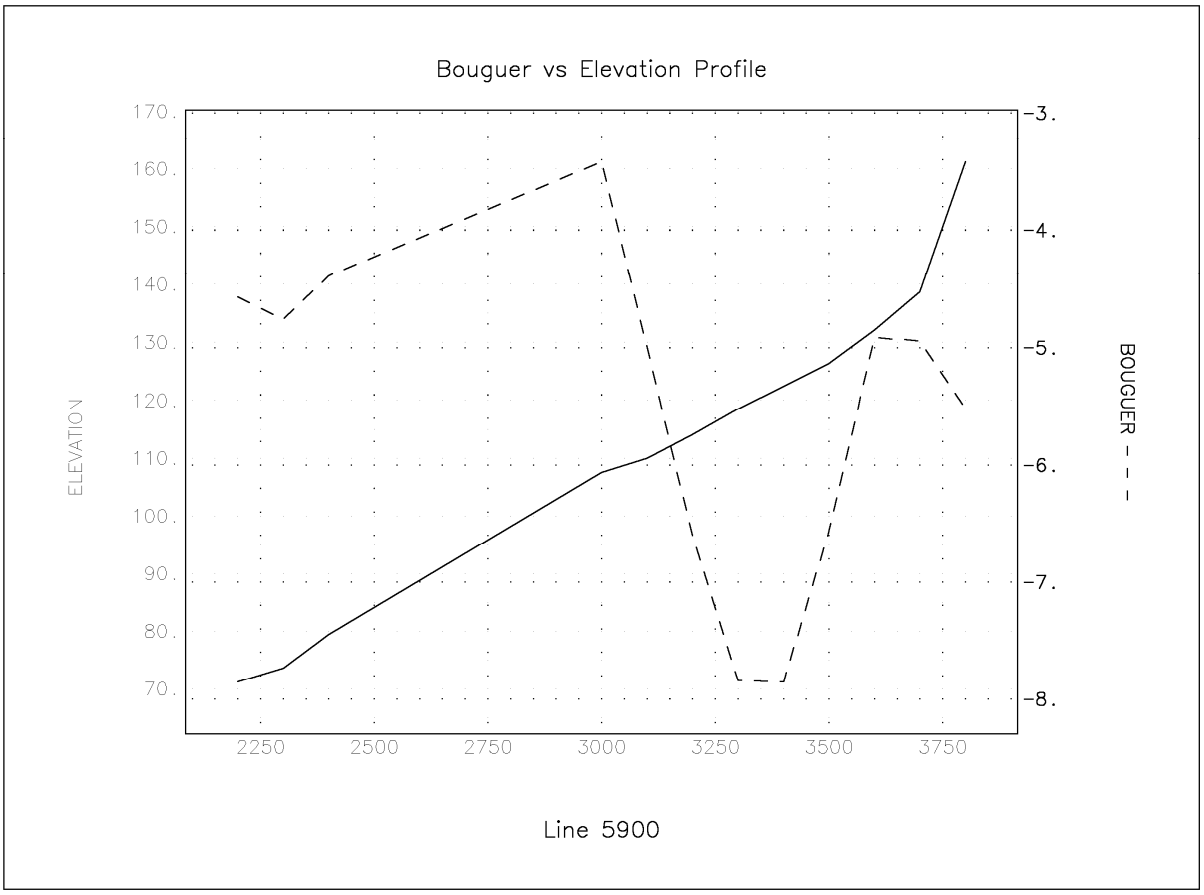
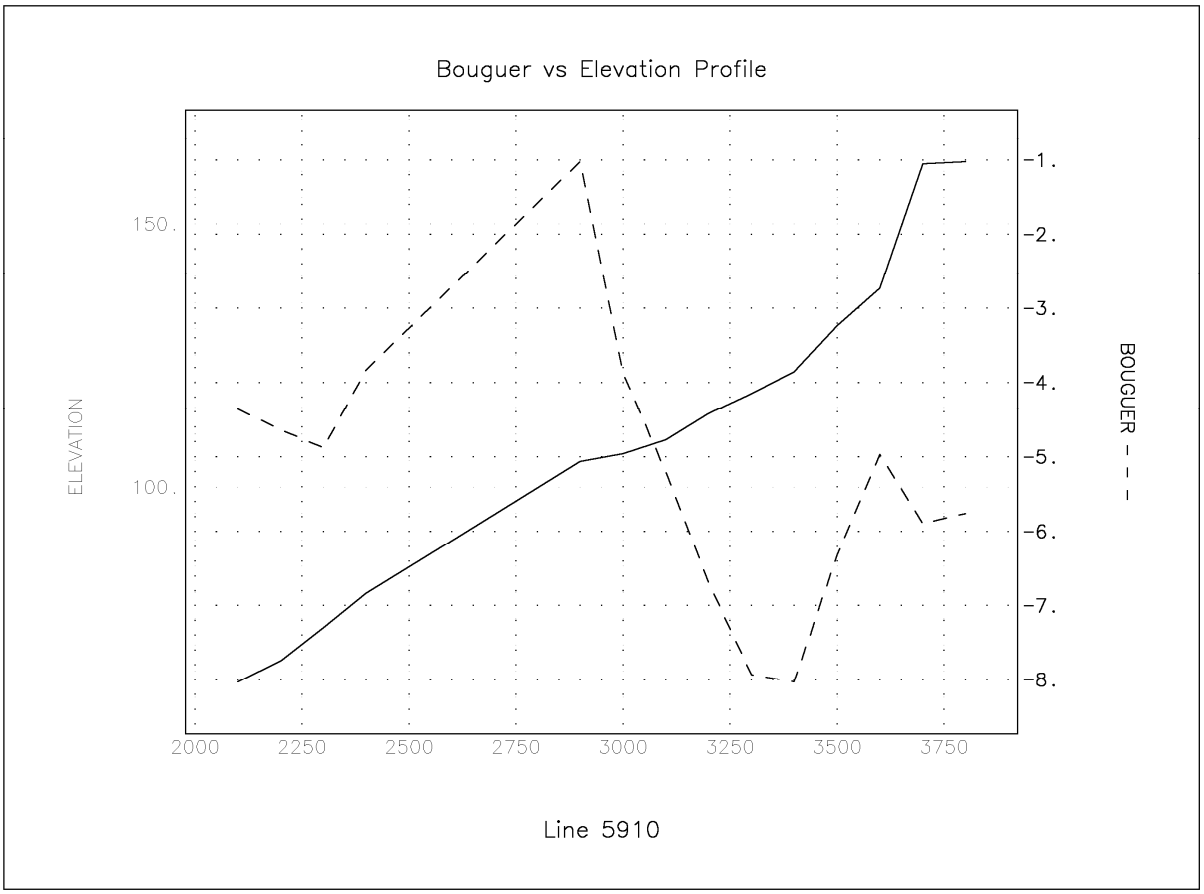
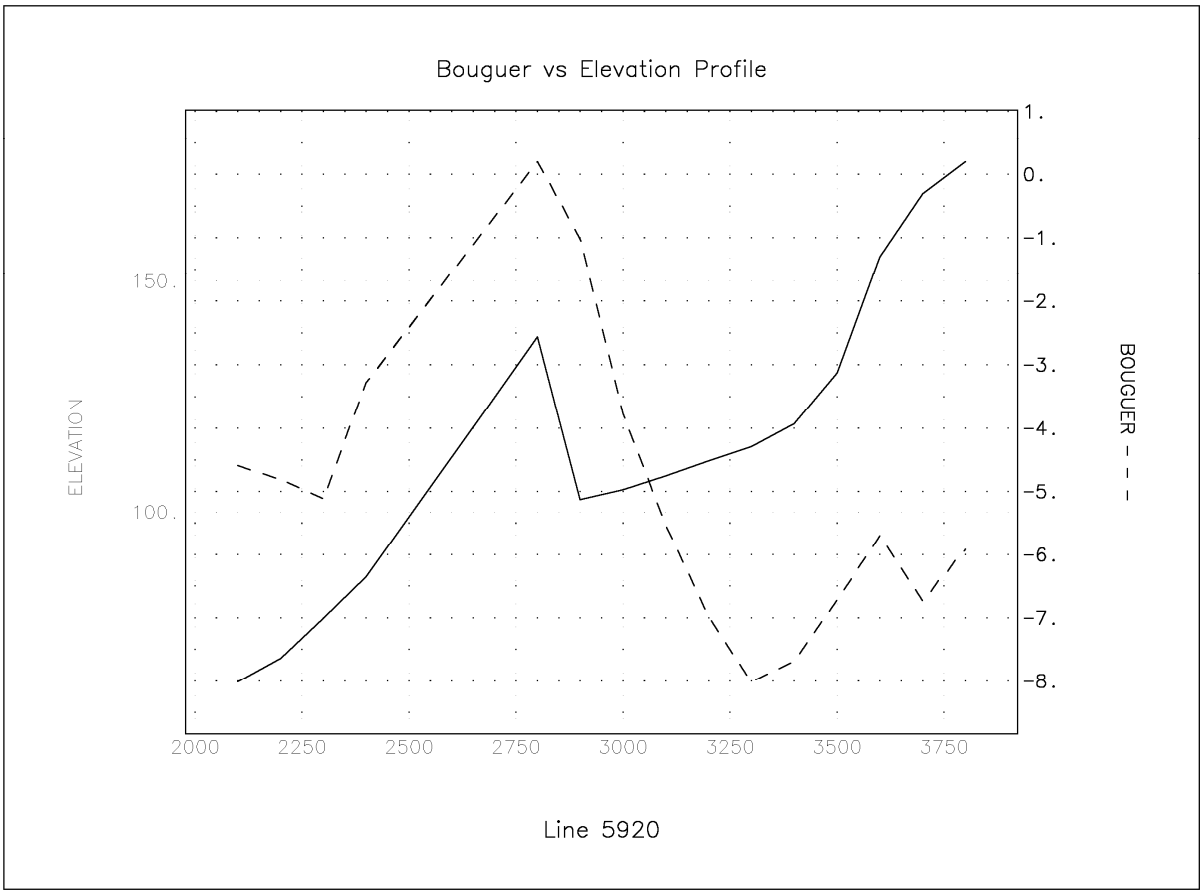
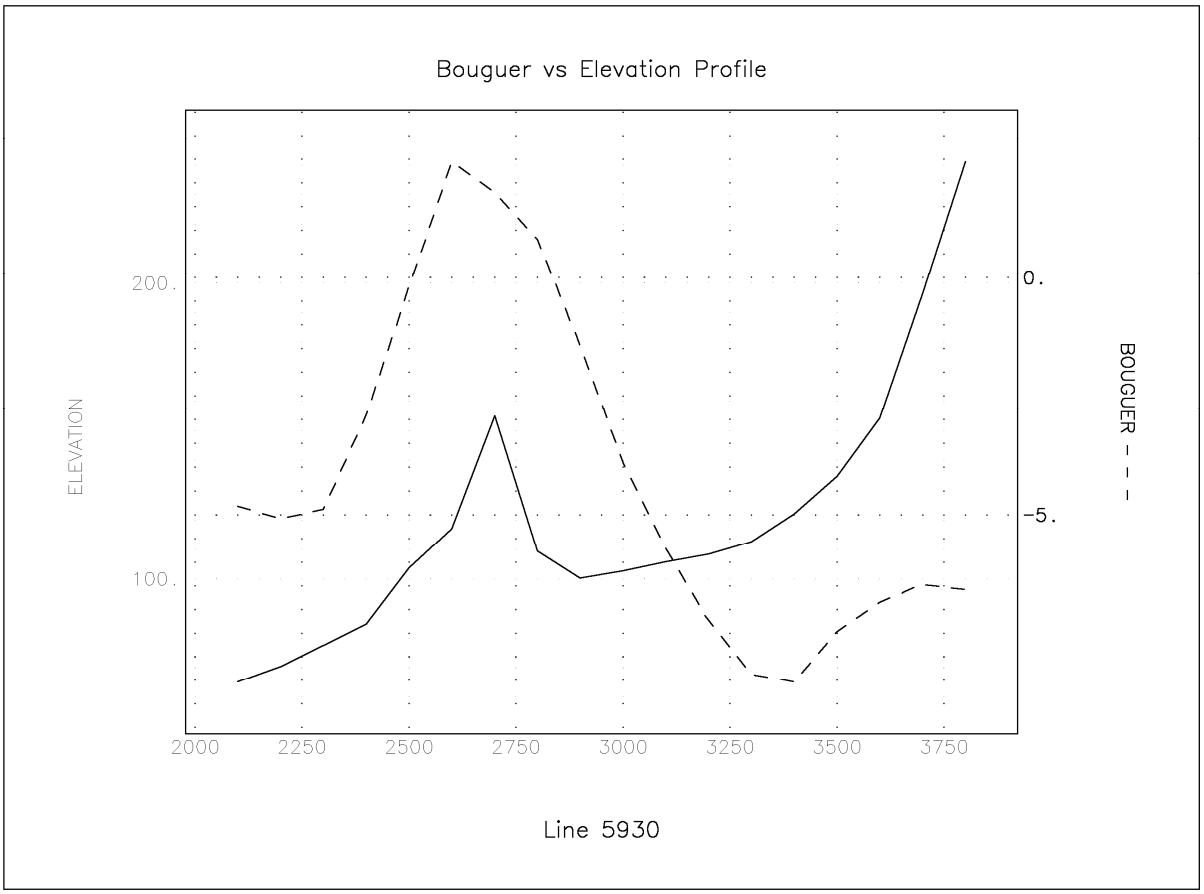
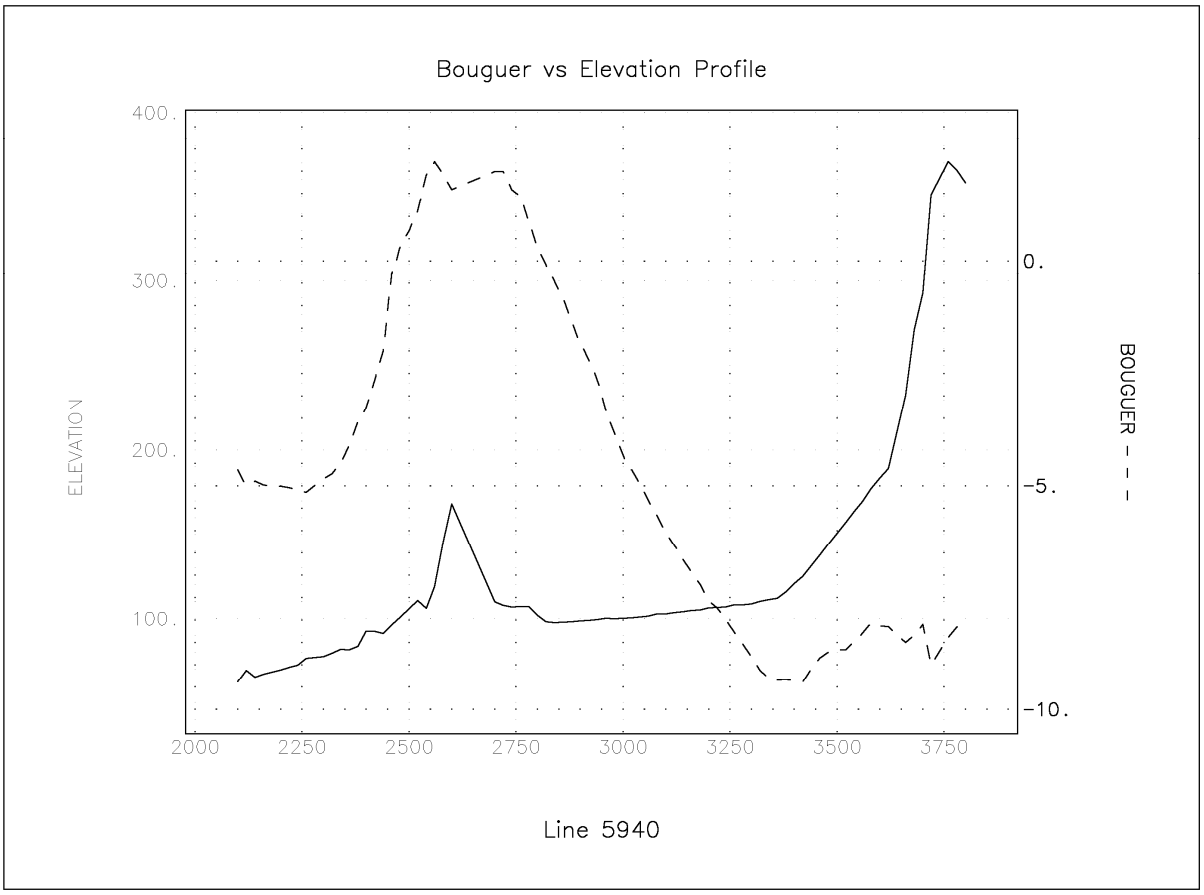
-8.
2250
2500
2750
3000
3250
3500
3750
Line 5890

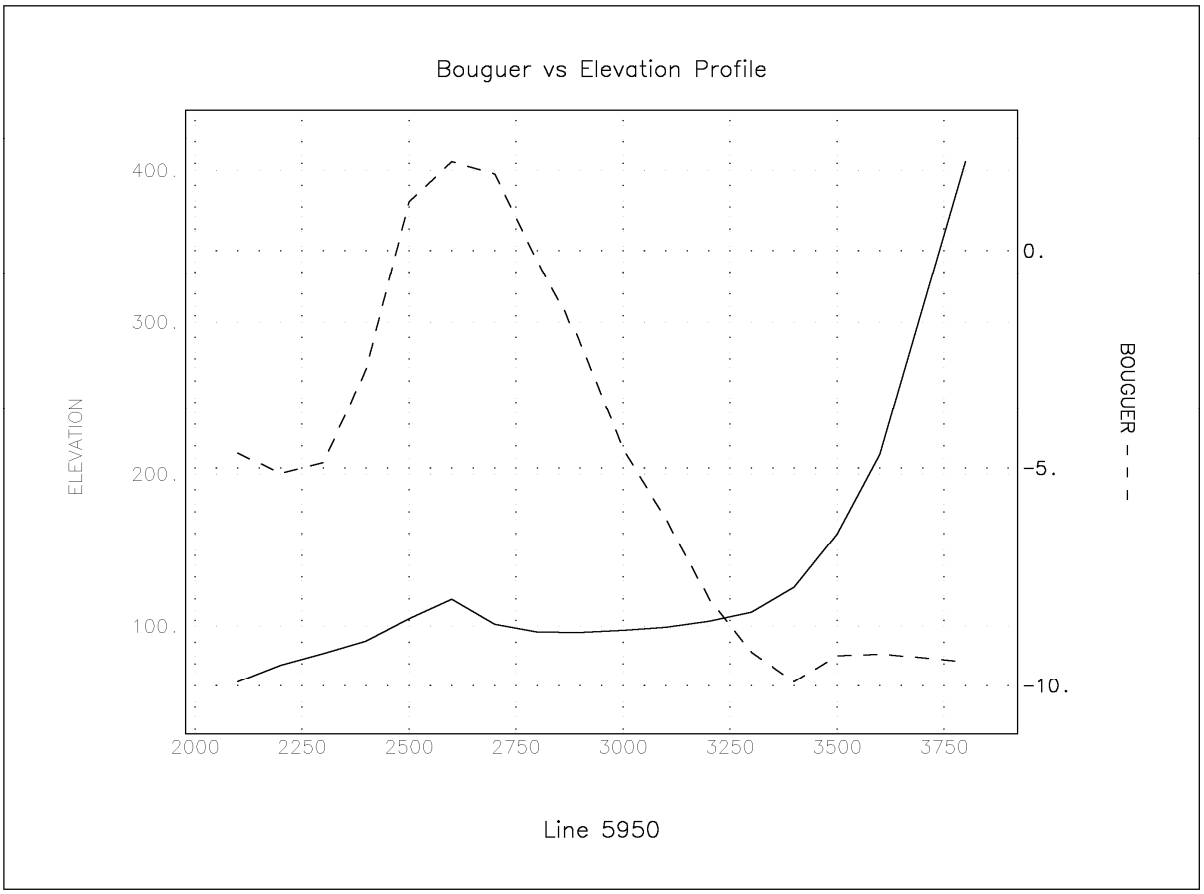

Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
170.
160.
150.
140.
130.
120.
110.
100.
90.
80.
70.
-3.
-4.
-5.
-6.
-7.
-8.
2250
2500
2750
3000
3250
3500
3750
Line 5900

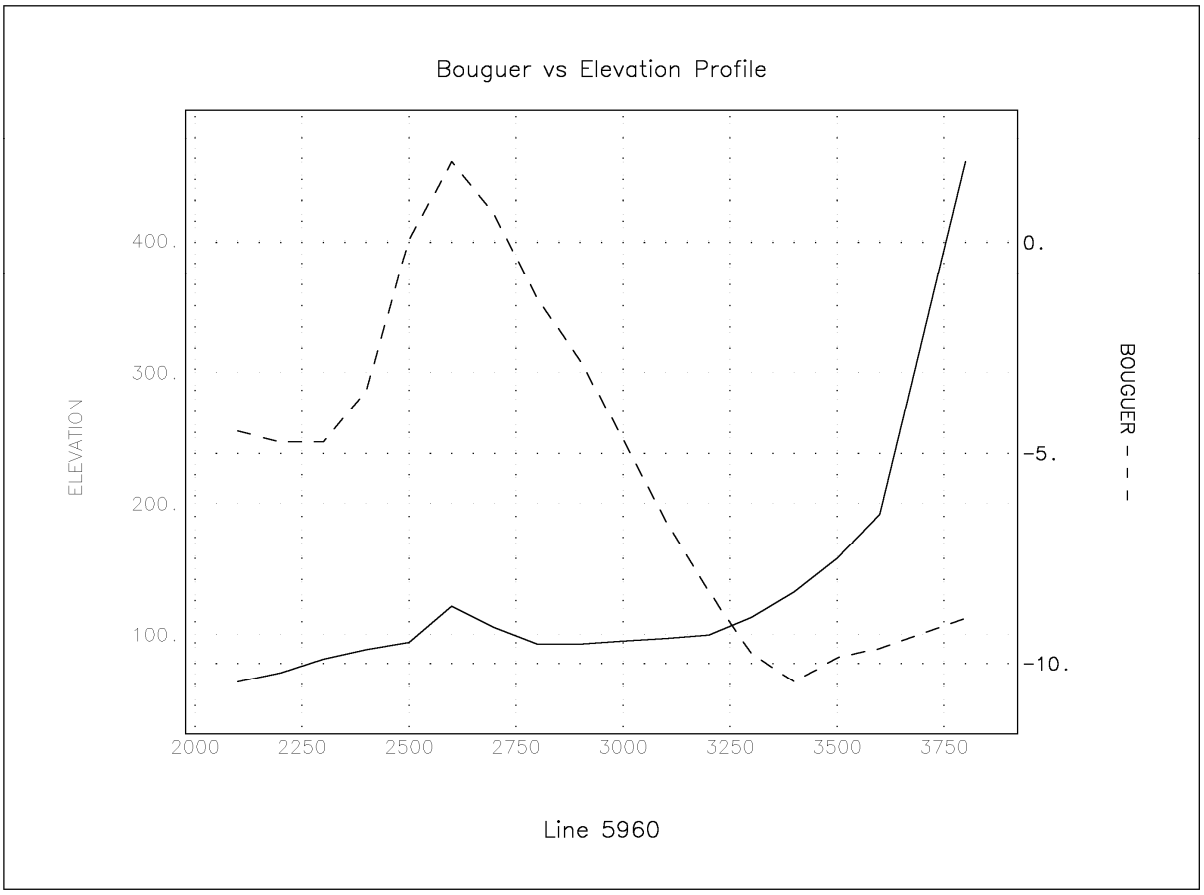

Bouguer vs Elevation Profile
ELEVATION
150.
100.
-1.
-2.
-3.
-4.
-5.
-6.
-7.
-8.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5910

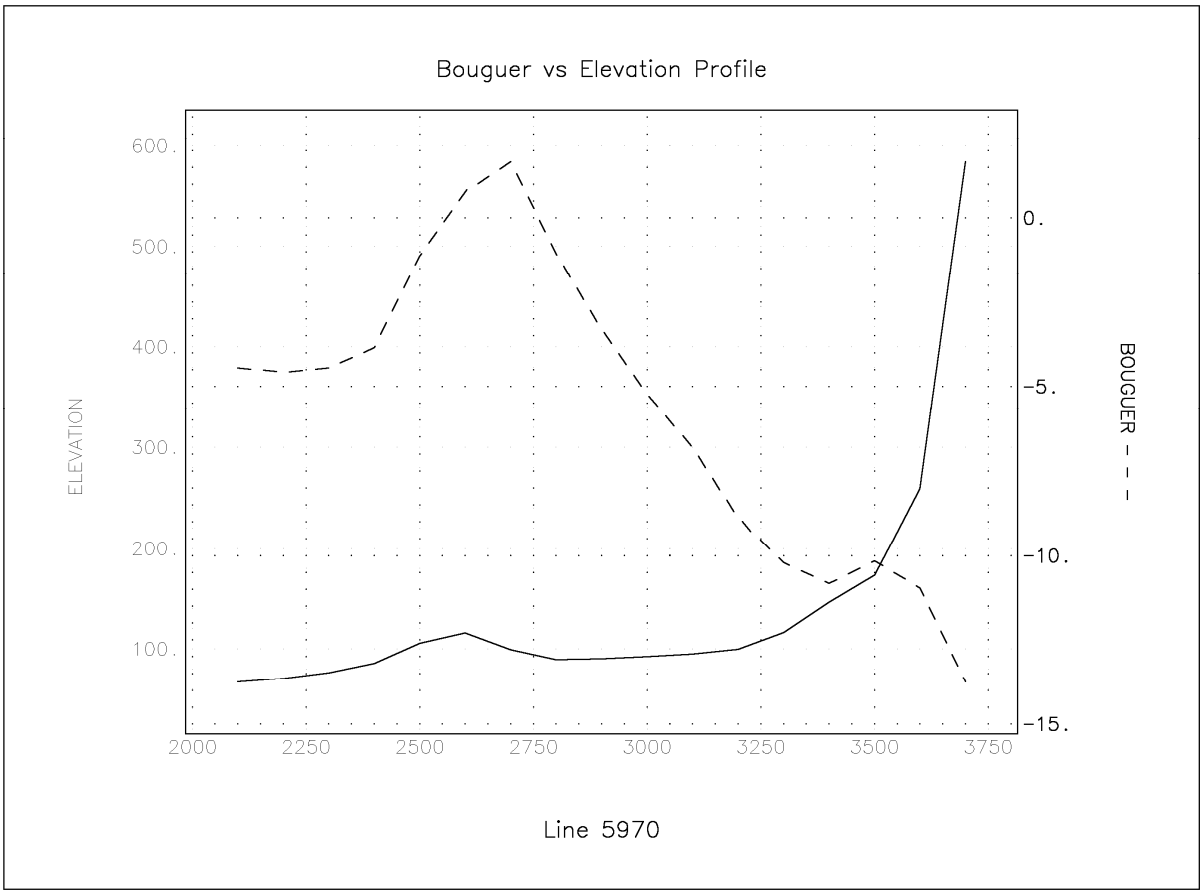

Bouguer vs Elevation Profile
ELEVATION
150.
100.
1.
0.
-1.
-2.
-3.
-4.
-5.
-6.
-7.
-8.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5920

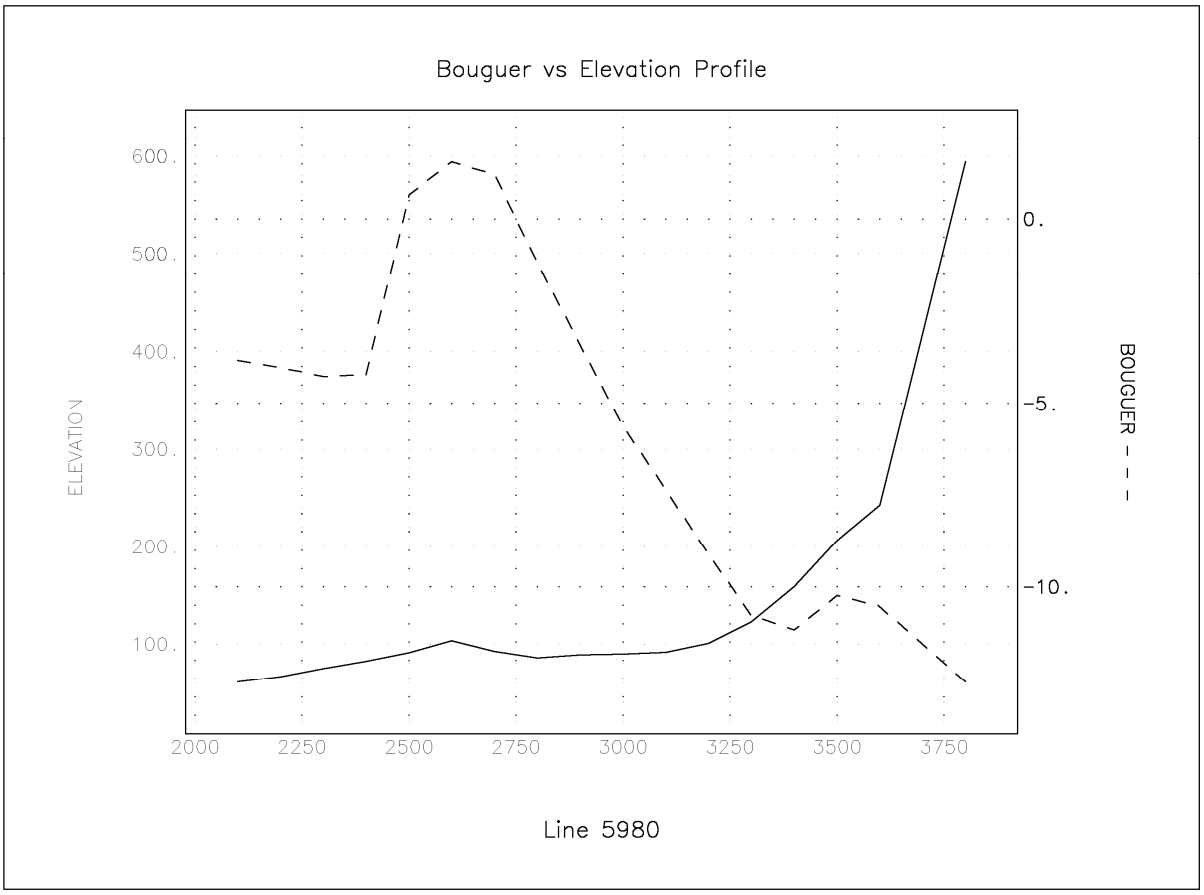

Bouguer vs Elevation Profile
ELEVATION
200.
100.
0.
-5.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5930

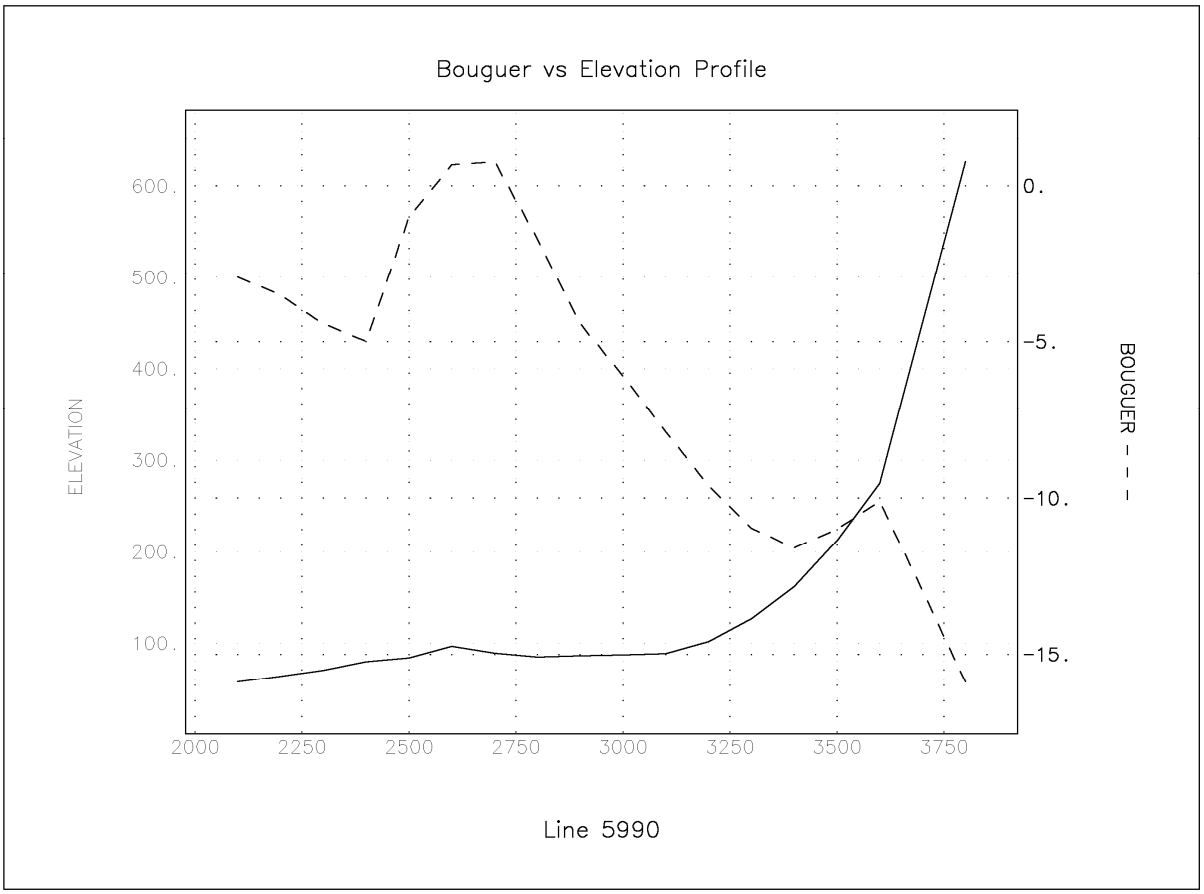

Bouguer vs Elevation Profile
ELEVATION
400.
300.
200.
100.
0.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5940

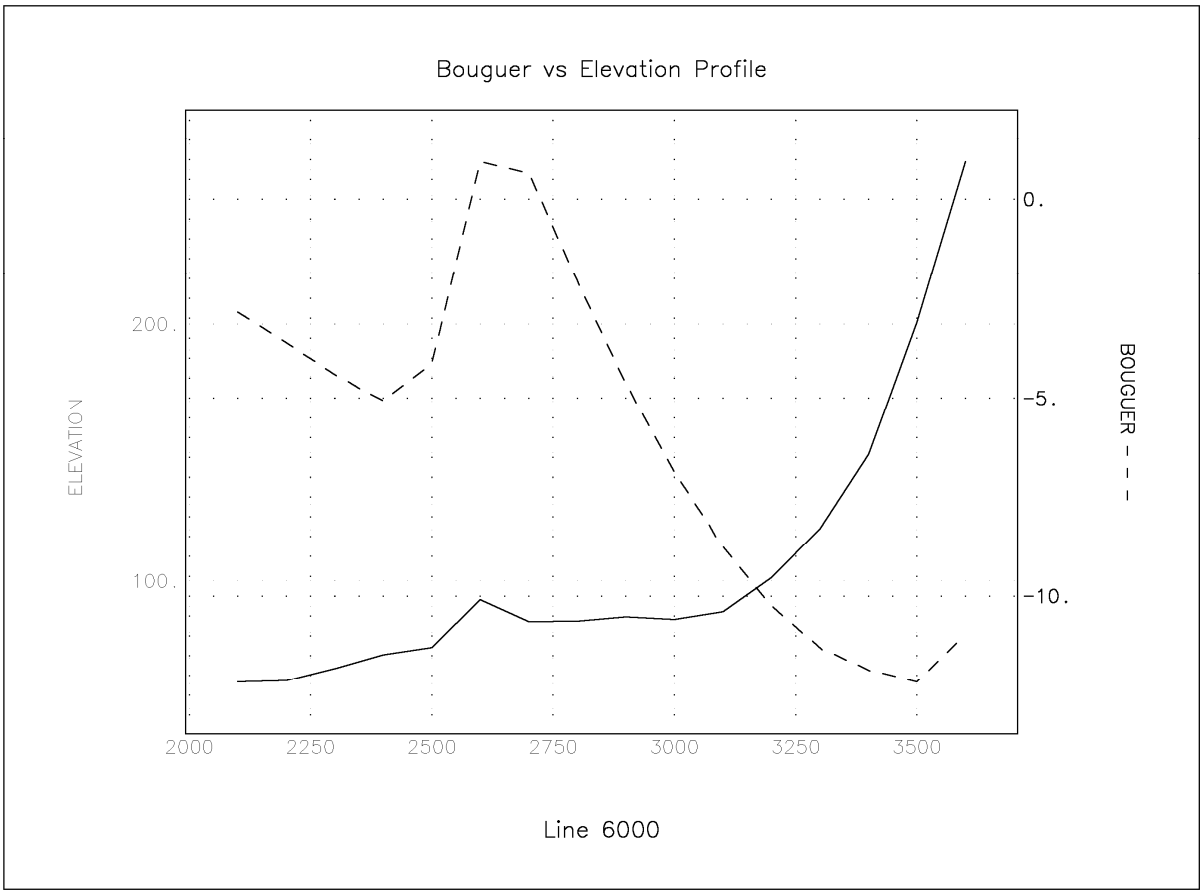

Bouguer vs Elevation Profile
400.
300.
200.
100.
ELEVATION
0.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5950

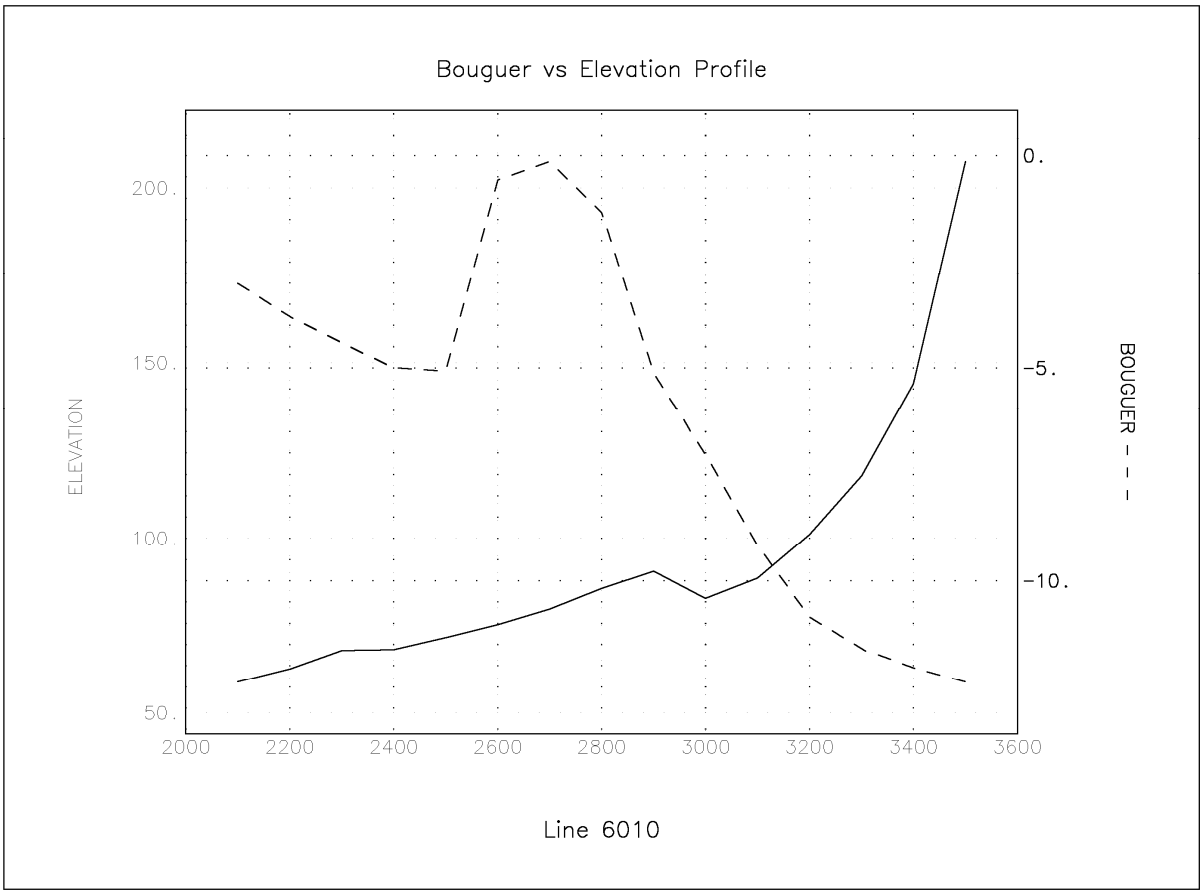

Bouguer vs Elevation Profile
400.
300.
200.
100.
ELEVATION
0.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5960

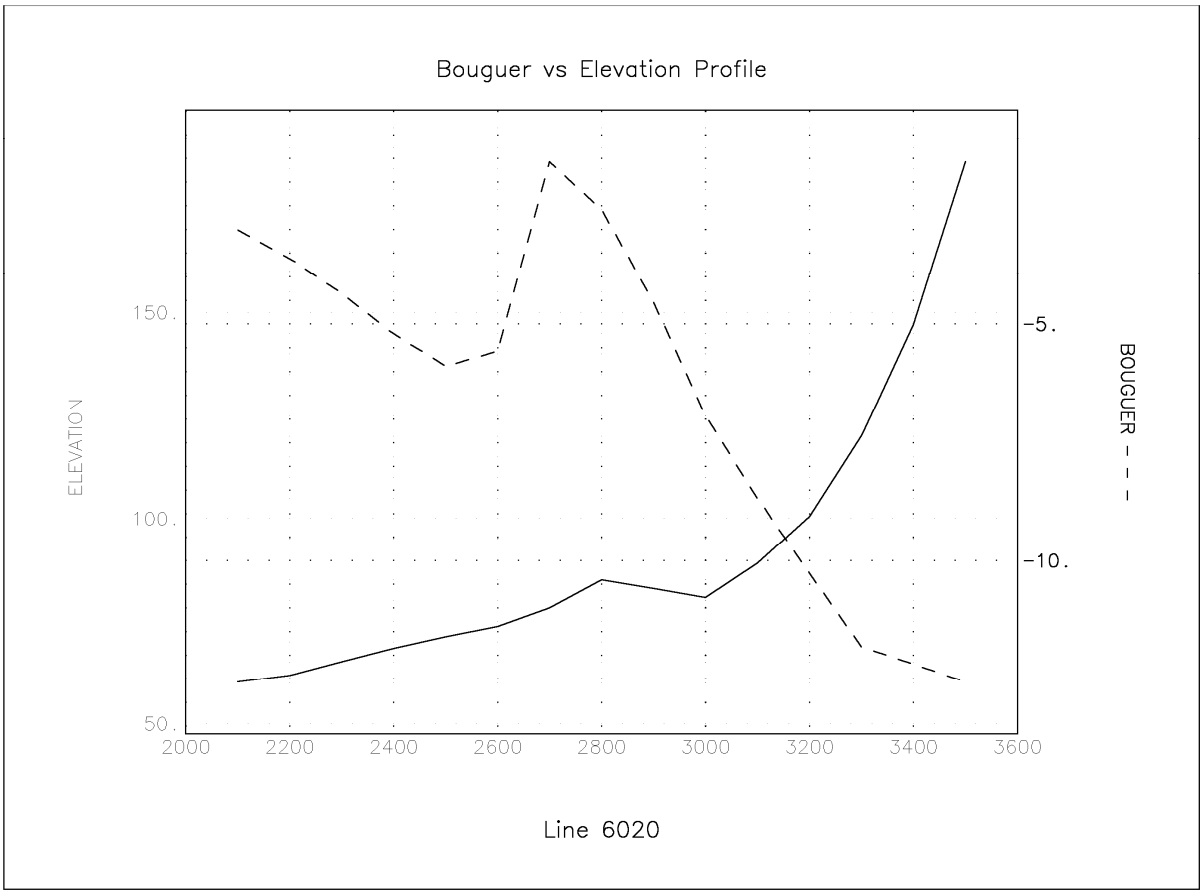

Bouguer vs Elevation Profile
ELEVATION
600.
500.
400.
300.
200.
100.
2000
2250
2500
2750
3000
3250
3500
3750
0.
-5.
-10.
-15.
BOUGUER - - -
Line 5970


Bouguer vs Elevation Profile
ELEVATION
600.
500.
400.
300.
200.
100.
2000
2250
2500
2750
3000
3250
3500
3750
0.
-5.
-10.
BOUGUER - - -
Line 5980


Bouguer vs Elevation Profile
ELEVATION
600.
500.
400.
300.
200.
100.
0.
-5.
-10.
-15.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 5990


Bouguer vs Elevation Profile
ELEVATION
200.
100.
0.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
Line 6000


Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
200.
150.
100.
50.
0.
-5.
-10.
2000
2200
2400
2600
2800
3000
3200
3400
3600
Line 6010


Bouguer vs Elevation Profile
ELEVATION
BOUGUER - - -
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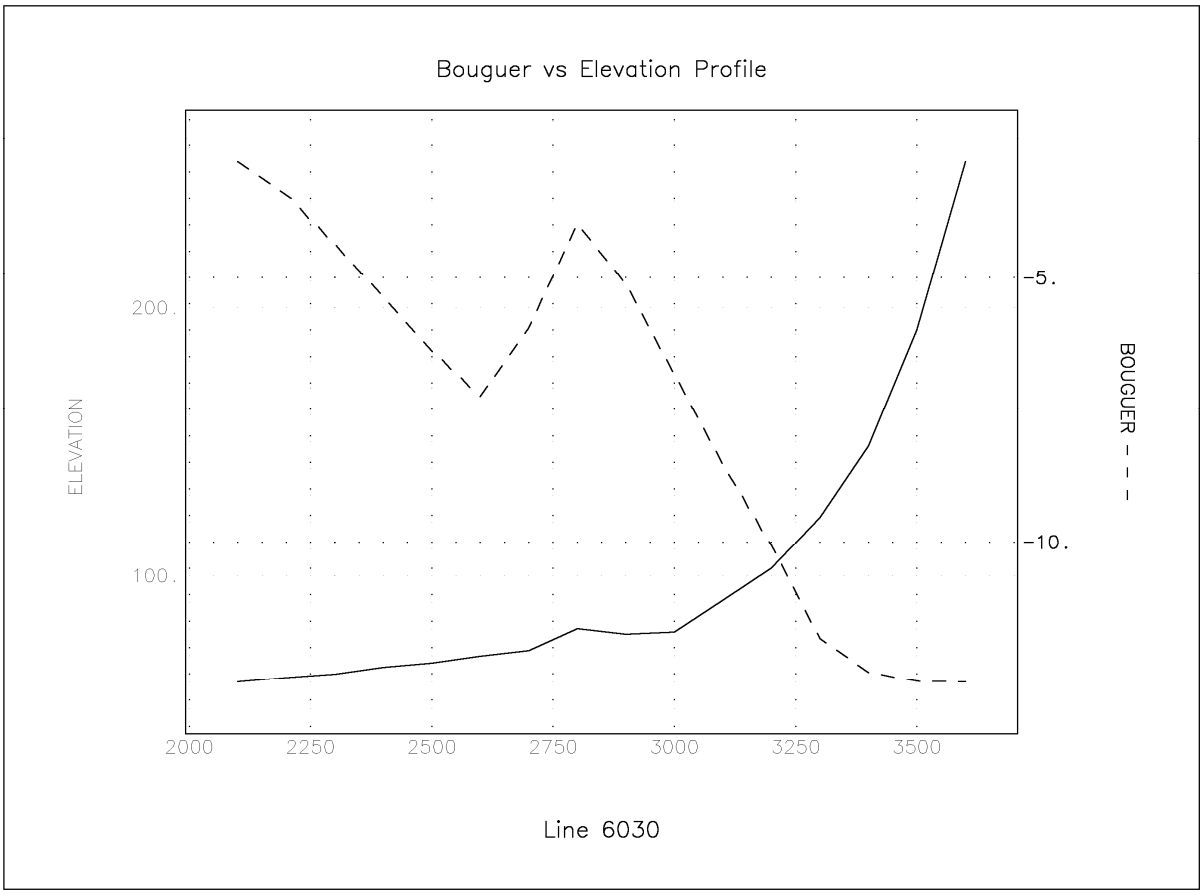
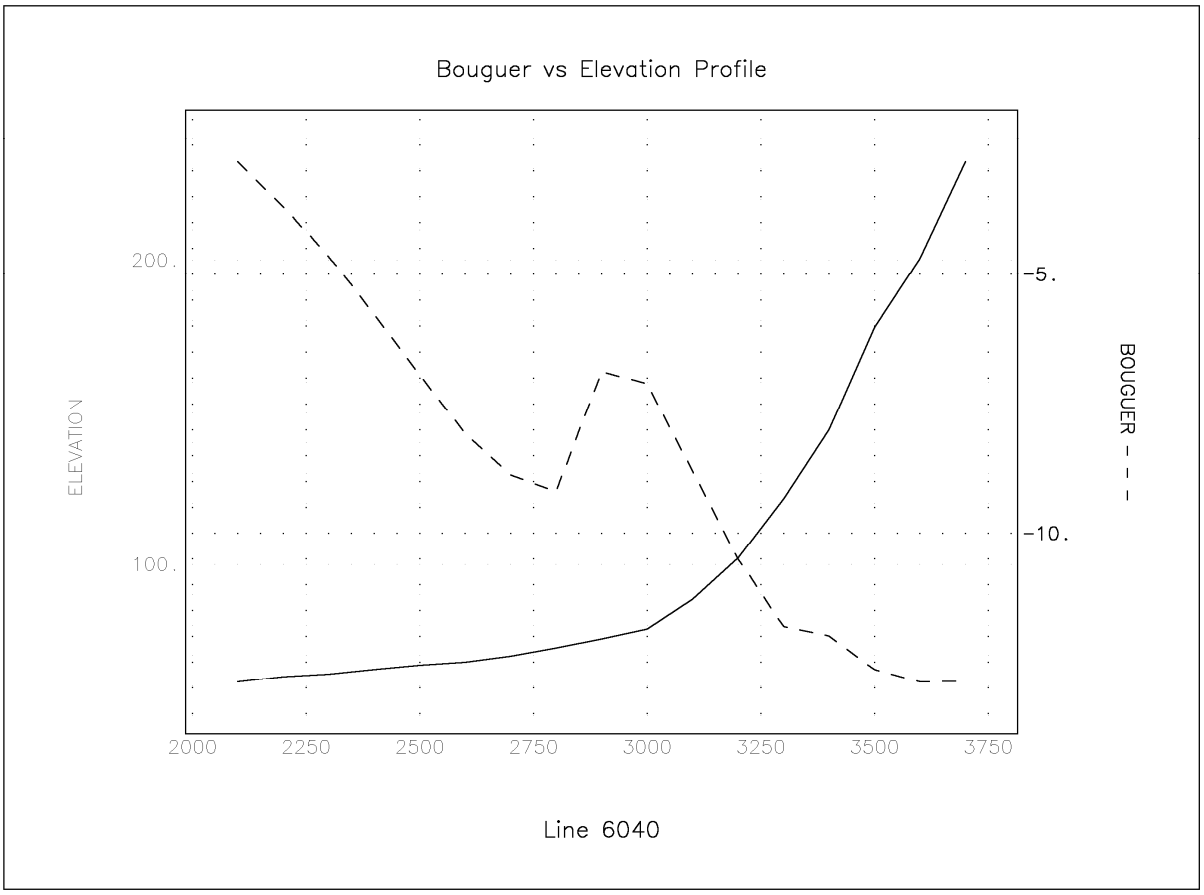
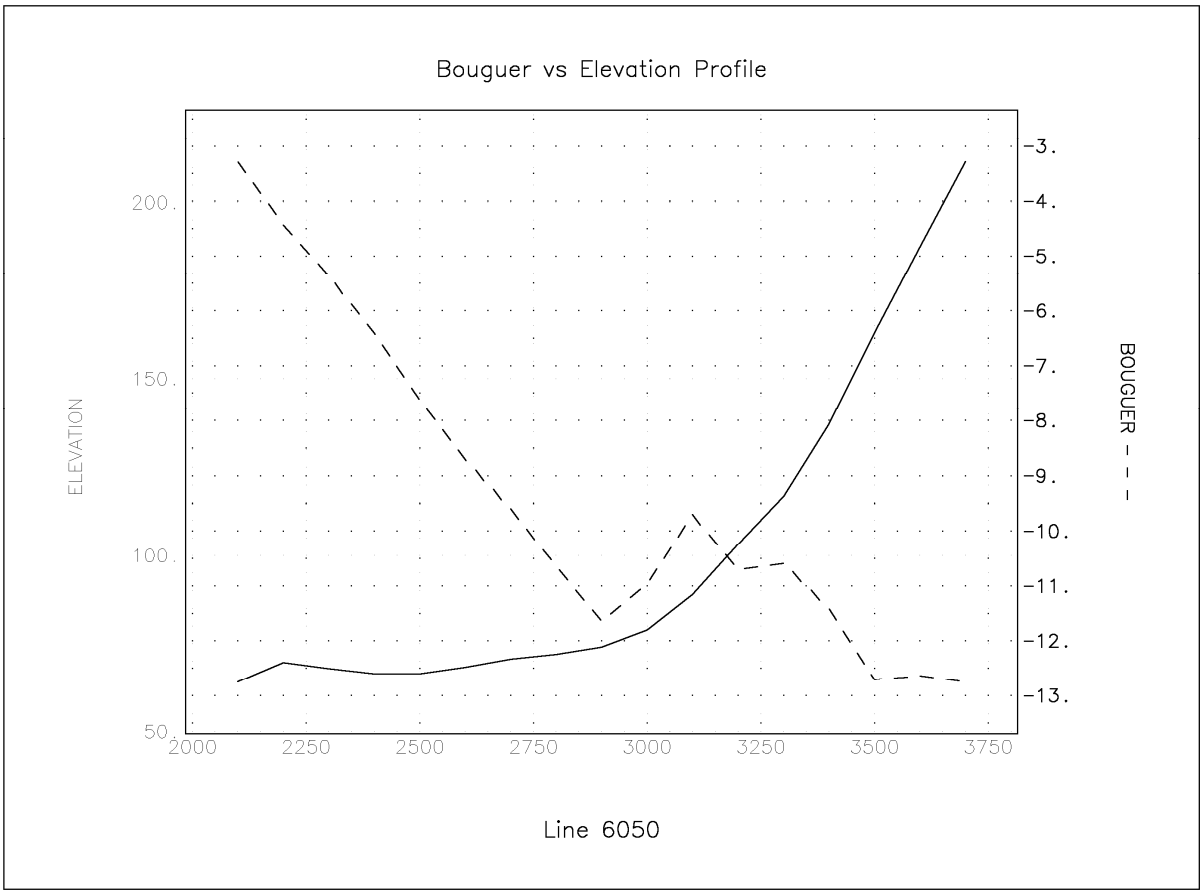
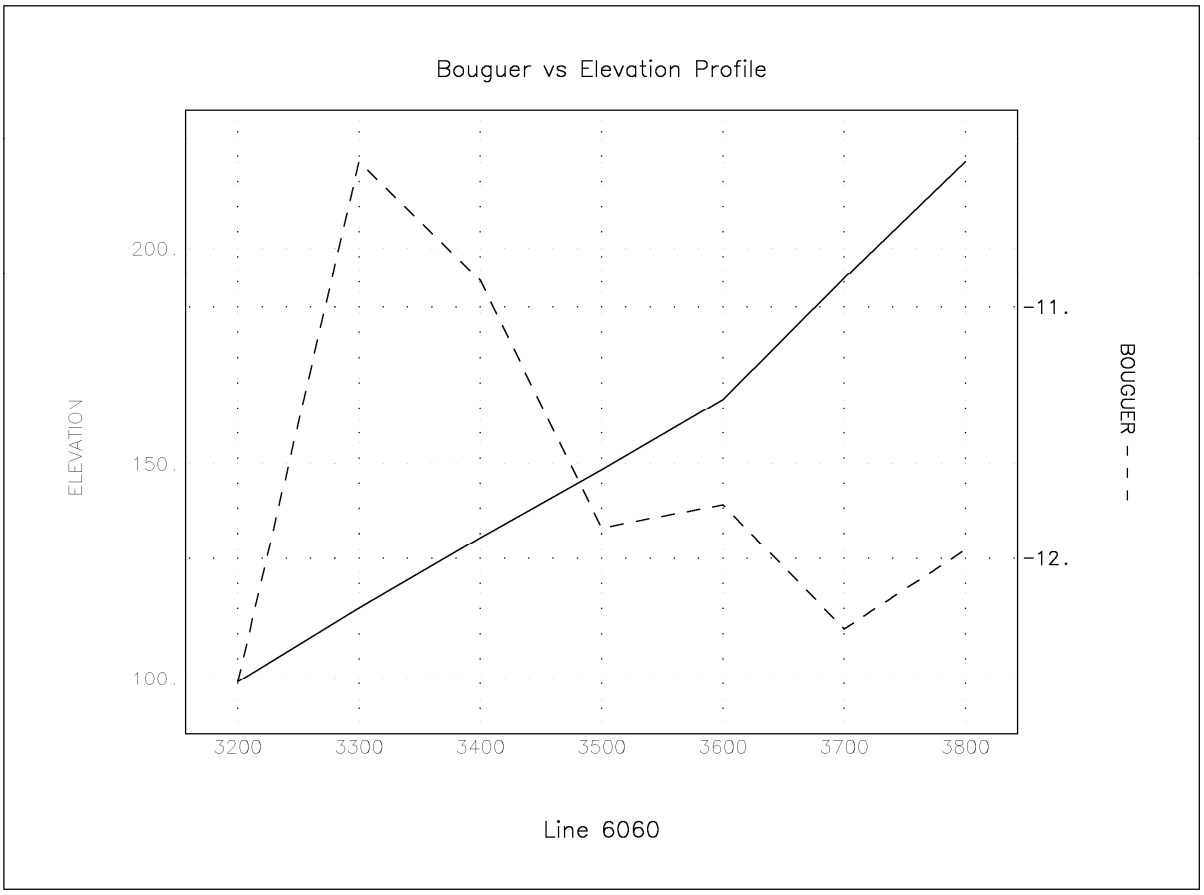
100.
50.
-5.
-10.
2000
2200
2400
2600
2800
3000
3200
3400
3600
Line 6020


Bouguer vs Elevation Profile
ELEVATION
200.
100.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
Line 6030


Bouguer vs Elevation Profile
ELEVATION
200.
100.
-5.
-10.
BOUGUER - - -
2000
2250
2500
2750
3000
3250
3500
3750
Line 6040


Bouguer vs Elevation Profile
ELEVATION
200.
150.
100.
50.
2000
2250
2500
2750
3000
3250
3500
3750
-3.
-4.
-5.
-6.
-7.
-8.
-9.
-10.
-11.
-12.
-13.
BOUGUER - - -
Line 6050


Bouguer vs Elevation Profile
ELEVATION
200.
150.
100.
3200
3300
3400
3500
3600
3700
3800
-11.
-12.
BOUGUER - - -
Line 6060

PROCESSED RESULTS

MT JAMES GRAVITY SURVEY

/ COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/ E	N	x	y	meter	mgal		corrn	corrn	anom	(AHD)	
/D295											
/ 232675.8	6569941.3	0	696	+0.000	2690.888	979354.730	-46.119	67.533	-24.488	-3.074	218.836
/ 232675.8	6569941.3	0	696	+0.000	2690.888	979354.730	-46.119	67.533	-24.488	-3.074	218.836
/ 232675.8	6569941.3	0	696	-0.122	2690.888	979354.730	-46.119	67.533	-24.488	-3.074	218.836
/ 232675.8	6569941.3	0	696	+0.000	2691.010	979354.730	-46.119	67.533	-24.488	-3.074	218.836
/ 252148.5	6614000.0	0	5010	+0.000	2640.555	979304.397	-65.250	75.840	-27.500	-16.910	245.756
/ 252148.5	6614000.0	0	5010	+0.000	2640.555	979304.397	-65.250	75.840	-27.500	-16.910	245.756
/ 252148.5	6614000.0	0	5010	+0.000	2640.741	979304.461	-65.186	75.840	-27.500	-16.846	245.756
/ 252148.5	6614000.0	0	5010	+0.000	2640.741	979304.461	-65.186	75.840	-27.500	-16.846	245.756
/ 233643.1	6568273.9	0	6299	-0.005	2713.446	979377.288	-24.777	33.558	-12.168	-3.387	108.742
/ 233643.1	6568273.9	0	6299	-0.005	2713.446	979377.288	-24.777	33.558	-12.168	-3.387	108.742
/ 233643.1	6568273.9	0	6299	+0.000	2713.586	979377.306	-24.759	33.558	-12.168	-3.369	108.742
/ 233643.1	6568273.9	0	6299	+0.000	2713.586	979377.306	-24.759	33.558	-12.168	-3.369	108.742
230014.1	6567485.0	5675	3000	-0.064	2715.413	979379.255	-23.311	21.426	-7.769	-9.654	69.429
230499.9	6567475.8	5675	3050	-0.066	2714.578	979378.420	-24.161	23.168	-8.401	-9.394	75.075
230977.2	6567483.1	5675	3100	-0.068	2715.031	979378.873	-23.712	24.029	-8.713	-8.395	77.866
231521.7	6567489.4	5675	3150	-0.071	2715.224	979379.066	-23.524	26.169	-9.489	-6.844	84.800
232000.9	6567504.6	5675	3200	-0.072	2714.116	979377.958	-24.630	29.252	-10.607	-5.985	94.790
232509.3	6567488.1	5675	3250	-0.074	2713.429	979377.271	-25.338	33.108	-12.005	-4.235	107.286
233003.0	6567500.6	5675	3300	-0.077	2712.001	979375.843	-26.766	35.186	-12.758	-4.339	114.017
233500.1	6567508.5	5675	3350	-0.079	2713.243	979377.085	-25.527	33.187	-12.034	-4.374	107.542
233999.2	6567477.8	5675	3400	-0.081	2714.948	979378.790	-23.853	30.417	-11.029	-4.466	98.563
234490.5	6567486.1	5675	3450	-0.083	2715.974	979379.816	-22.830	28.537	-10.348	-4.640	92.474
234998.8	6567507.4	5675	3500	-0.085	2716.402	979380.244	-22.396	27.524	-9.980	-4.852	89.190
235498.0	6567503.0	5675	3550	-0.087	2716.198	979380.040	-22.612	27.079	-9.819	-5.352	87.747
235995.4	6567500.7	5675	3600	-0.089	2715.165	979379.007	-23.656	27.387	-9.931	-6.199	88.746
226993.1	6567998.5	5680	2700	-0.051	2717.568	979381.410	-20.731	17.310	-6.277	-9.698	56.092
227991.2	6568027.7	5680	2800	-0.048	2716.053	979379.895	-22.244	19.136	-6.939	-10.046	62.010
228992.6	6568016.1	5680	2900	-0.046	2716.018	979379.860	-22.306	20.267	-7.349	-9.388	65.673
229998.4	6568013.1	5680	3000	-0.043	2715.208	979379.050	-23.136	22.750	-8.249	-8.635	73.721
230505.1	6568008.4	5680	3050	-0.041	2714.883	979378.725	-23.474	24.721	-8.964	-7.716	80.108
231014.5	6568012.9	5680	3100	-0.039	2715.781	979379.623	-22.582	26.383	-9.567	-5.765	85.493
231527.8	6568052.7	5680	3150	-0.037	2717.504	979381.346	-20.839	27.030	-9.801	-3.611	87.588
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234196.4	6576988.7	5770	3420	-0.060	2667.777	979367.021	-28.796	37.895	-13.741	-4.641	122.798
234402.4	6576997.1	5770	3440	-0.058	2668.394	979367.638	-28.176	36.938	-13.394	-4.632	119.697
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235804.3	6577001.9	5770	3580	-0.047	2667.678	979366.922	-28.914	37.579	-13.626	-4.961	121.773
236205.1	6576995.8	5770	3620	-0.045	2667.743	979366.987	-28.861	37.638	-13.648	-4.870	121.964
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237005.8	6576999.3	5770	3700	-0.039	2667.148	979366.392	-29.467	38.616	-14.002	-4.854	125.132
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237406.8	6576993.7	5770	3740	-0.036	2666.948	979366.192	-29.678	38.956	-14.125	-4.848	126.233
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237812.4	6576999.9	5770	3780	-0.033	2666.647	979365.891	-29.982	39.521	-14.331	-4.791	128.067
238025.1	6577008.3	5770	3800	-0.031	2666.378	979365.622	-30.249	40.038	-14.518	-4.728	129.742

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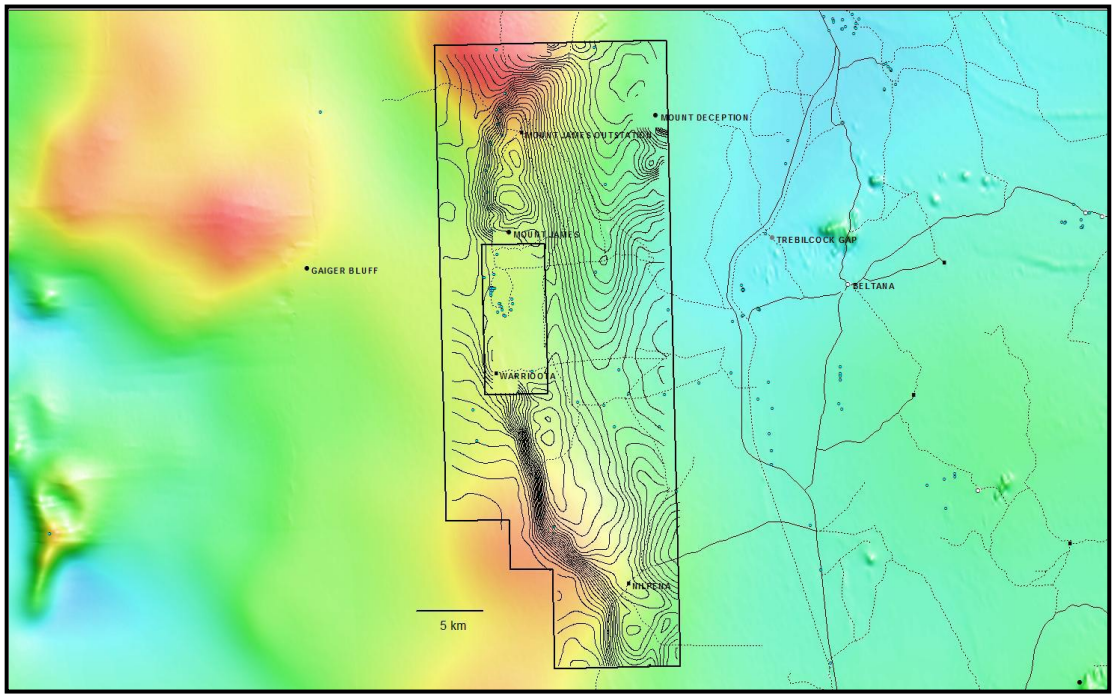
ANNUAL TECHNICAL REPORT

EL 3921 MOUNT JAMES
SOUTH AUSTRALIA

FOR YEAR ENDING 2nd September 2009



J.M. Godsmark, A.D. Thompson & R.B. Flint

November 2009

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ANNUAL TECHNICAL REPORT

EL 3921 MOUNT JAMES
SOUTH AUSTRALIA

FOR YEAR ENDING 2nd September 2009

SUMMARY

- During the recent data review, a pre-existing drillhole into a gravity feature of interest was found to have intercepted a thick sequence of Adelaidean strata, thereby indicating that the gravity feature was entirely due to a shallow, thick wedge of Adelaidean rocks rather than due to shallowing Gawler Craton basement rocks.
- Subsequent gravity modelling proved that the entire gravity response could be caused by the thick wedge of Adelaidean rocks.
- The gravity target is no longer of interest as there does not appear to be any shallow basement present and the shallow Adelaidean sequence is not sufficiently prospective to warrant further exploration activity.
- A brief preliminary assessment of barite mineral occurrences within EL 3921 and their economic potential was conducted based on information available in PIRSA's GIS database.

1:250 000 map reference SH 54-09 Copley, SH 54-13 Parachilna
1:100 000 map reference 6535 Parachilna 6536 Copley

DISTRIBUTION: PIRSA
Minotaur Exploration Ltd

CONTENTS

FIGURES

TABLES

1.0 INTRODUCTION

EL 3921 (Mt James) covers 681 km^2 situated ~30 km SW of Leigh Creek on the very eastern margin of the Gawler Craton (Figure 1).

EL 3921 was granted to Minotaur Operations Pty Ltd on 3rd September 2007. The tenement completely surrounds EL 3384 (Ediacara) which is the subject of a joint venture between Minotaur Operations Pty Ltd and Perilya Ltd and which is being managed by Perilya Ltd.

This report details exploration activities undertaken by Minotaur within EL 3921 during the year ending 2nd September 2009.

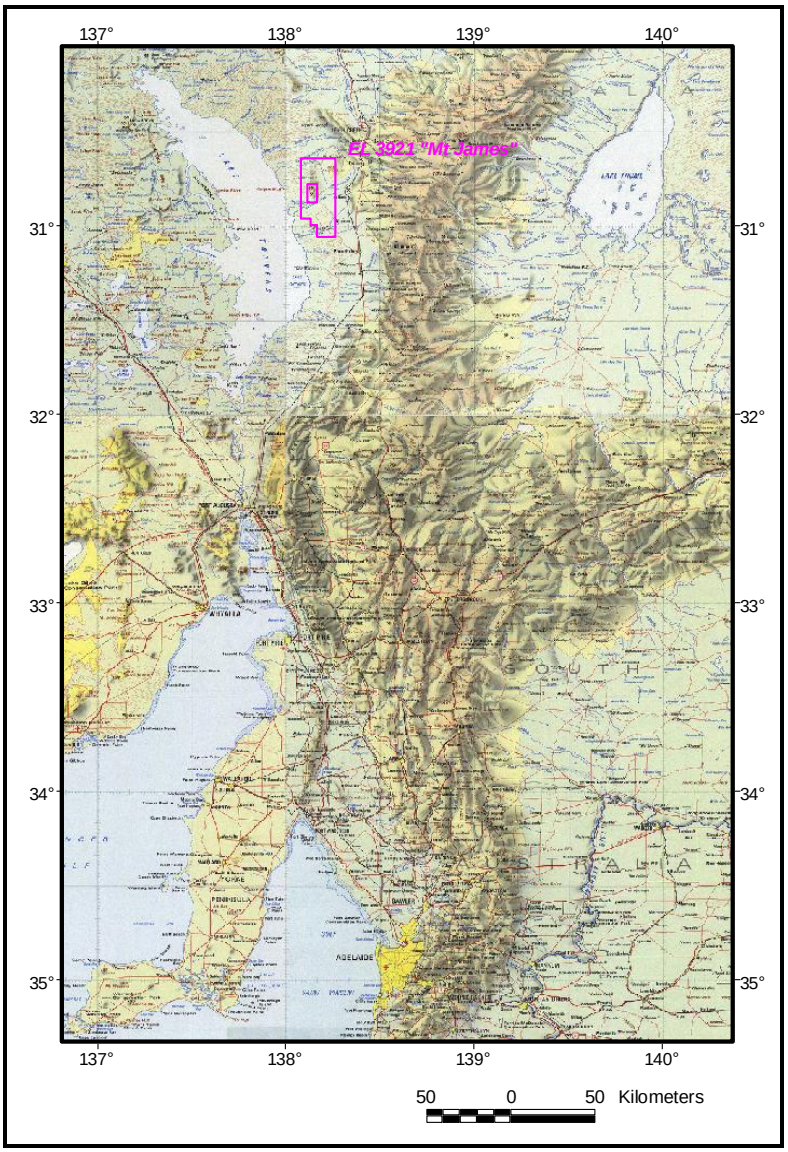

Figure 1. Location plan for EL 3921 (Mt James).

2.0 REGIONAL GEOLOGY

EL 3921 (Mt James) is located in the northern Flinders Ranges, South Australia. The northern Flinders Ranges comprises Neoroterozoic–Cambrian age sediments that accumulated in a continental rift basin (Adelaide Geosyncline) between the Archaean to Mesoproterozoic Gawler and Curnamona Cratons. Within EL 3921, exposed units of the Adelaide Geosyncline are predominantly calcareous sediments of the Wonoka Formation and quartzite of the Pound Quartzite (Figure 2).

Zinc, lead and copper mineralisation is found throughout the Adelaide Geosyncline, generally associated with Cambrian marine shelf-carbonate sediments and environments. Deformation and folding during the Cambrian–Ordovician Delamerian Orogeny resulted in mineralizing fluids, rich in Zn, Pb and Cu, being focused along particular faults and within favourable stratigraphic formations.

Exploration Licence EL 3384 (Ediacara), wholly surrounded by EL 3921, covers the historic Ediacara Pb-Ag-Cu mineral field, located 25 km west of Beltana within a synclinal basin of Early Cambrian carbonate and siliclastic rocks. Base metal mineralisation is structurally controlled and associated with brecciation along with limonite, manganese and silica alteration with minor haematite alteration. The Ediacara historical workings contain the largest known occurrence of Pb and Zn sulphides within the Flinders Ranges. Best intersections from historical drill holes include;

6.6 m @ 10.2% Pb from 27.4 m (Hole T48),

6.1 m @ 10.25% Pb from 7.6 m (Hole T31).

The mineralisation is interpreted to be Irish-type: consisting of structurally-controlled strata-bound lodes in the lowermost units of the Woodendinna Dolomite adjacent to major structures. Numerous barite occurrences also occur within the region. Mineralisation is closely associated with the faulted boundary between the Gawler Craton and Adelaide Geosyncline (Figure 3).

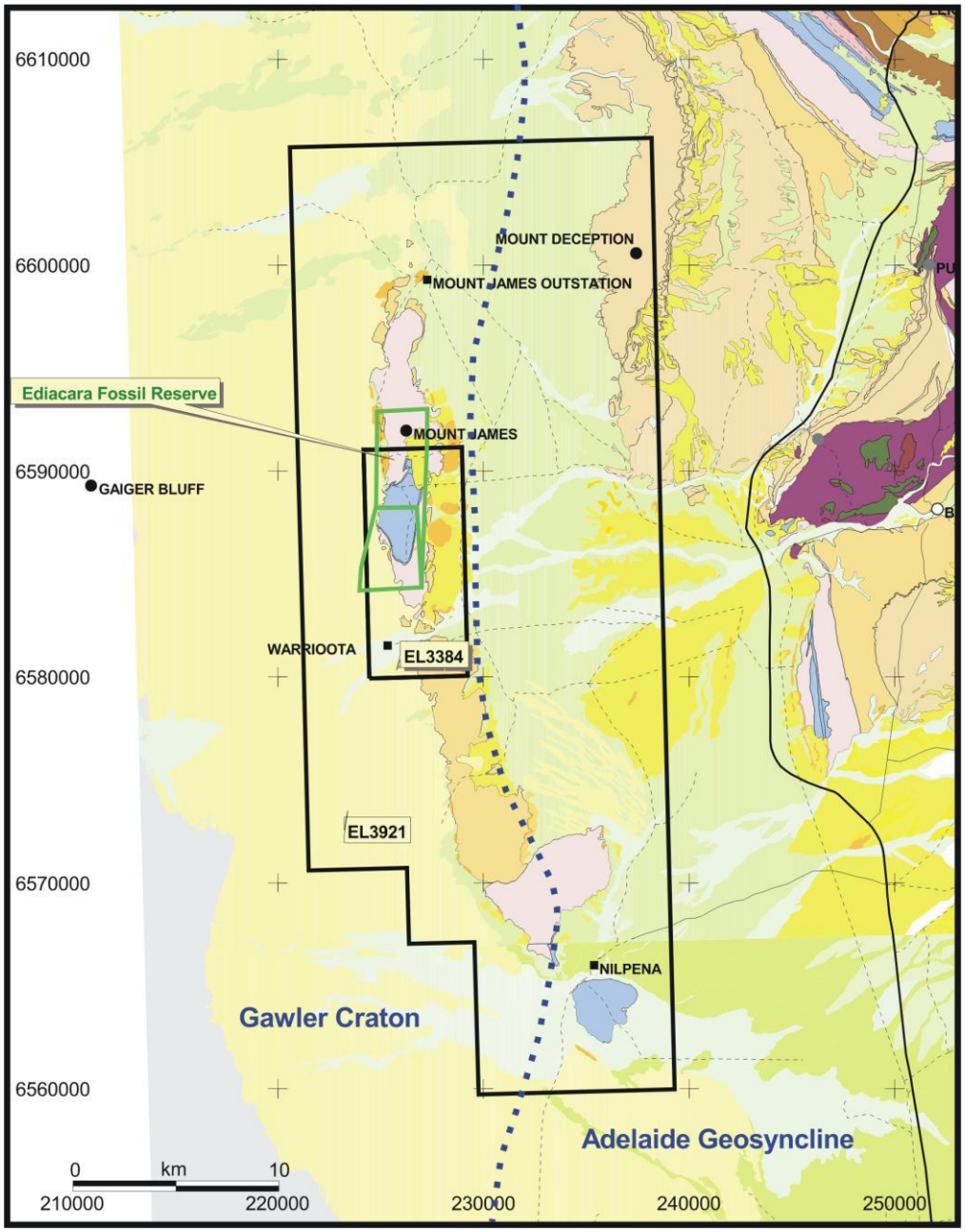

Figure 2. Outcrop geology for EL 3921 (Mt James).

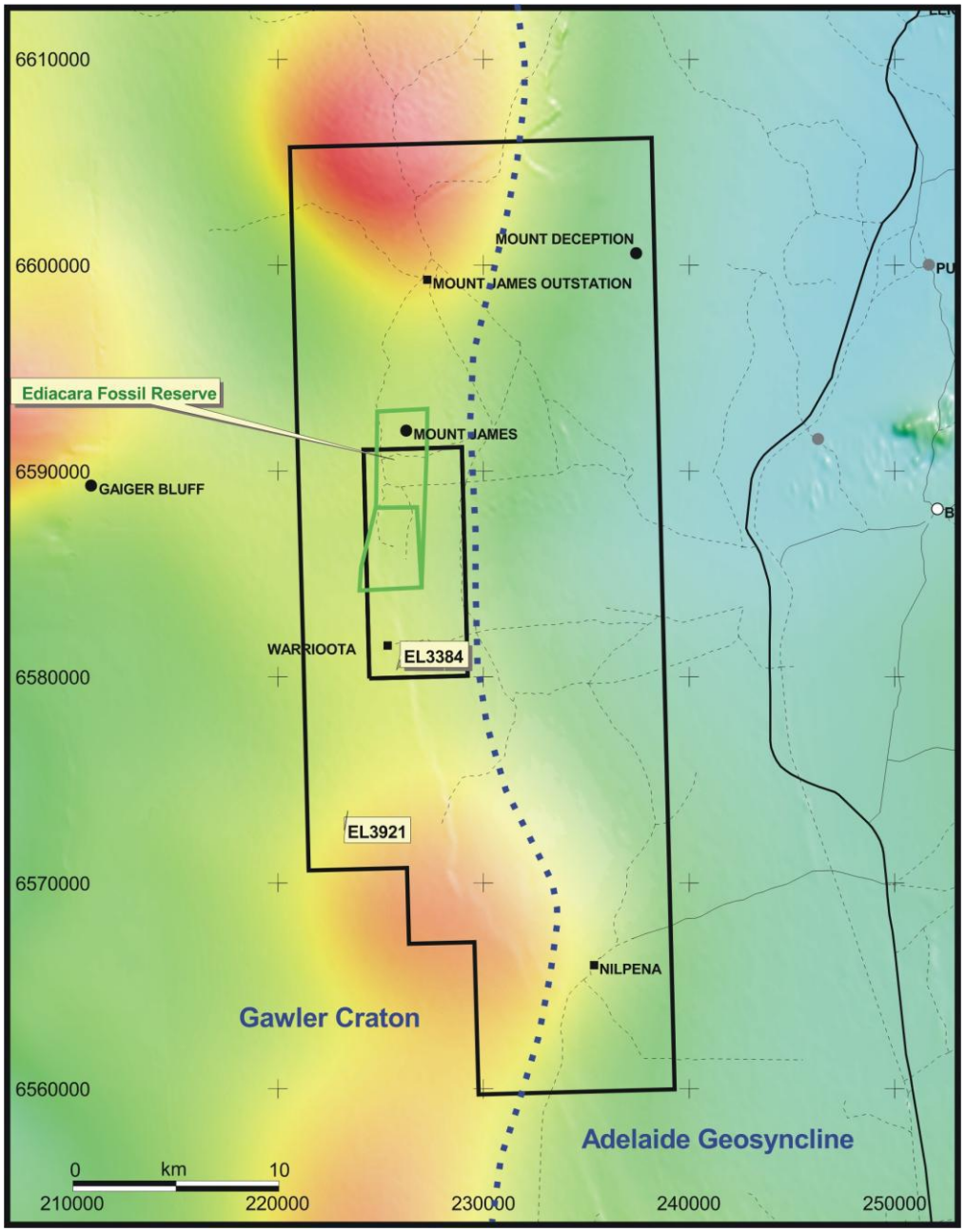

Figure 3. Regional magnetic image for EL 3921 (Mt James).

3.0 PREVIOUS EXPLORATION WITHIN EL 3921 (2007-2008)

Exploration undertaken by Minotaur in the first year of tenure, as described in detail by Hart et al (2008), included a gravity survey and analysis of the gravity data.

The historical gravity coverage for the tenement was exceedingly poor and restricted to a series of broadly E–W lines for a select portion of the tenement. Haines Surveys conducted a gravity survey, on behalf of Minotaur Exploration, within EL 3921 during October-November 2007. The regional survey was designed to cover the entire tenement and observations were collected at a station spacing of 1 km × 1 km over most of the tenement and 500 m × 500 m in the southern part of the tenement. The 2007 gravity data clearly define a 30 km long, curvilinear positive 7–8 mgals anomaly. A correlation between the gravity data and topography was noted by Hart et al (2008).

The arcuate nature of the positive gravity anomaly is interpreted as a high-angle reverse thrust (dipping eastwards) formed during the Cambrian–Ordovician Delamerian Orogeny probably from re-activation of pre-existing Neoproterozoic extensional fault that originally controlled the distribution of sediments and facies within the margin of the Adelaide Geosyncline (Hart et al, 2008).

2D modeling of the newly acquired gravity data was undertaken along profile 6594000mN in order to ascertain possible depths, orientation and nature of body causing the regional positive gravity anomaly. Considerable variation exists in the theoretical distribution of blocks depending upon the perceived appropriateness of various geological scenarios. The general profile indicates an E-dipping series of blocks and/or surfaces, however, a misfit exists between observed and computed profiles for the western portions and is probably due to presence of below-average density Tertiary sediments west of the faulted west margin of the ranges.

Hart et al (2008) interpreted the data to indicate that dense lithologies of ~3.0 g/cc are likely to occur at depths of 100–200 m below ground level, with the apparently non-magnetic material interpreted to possibly represent Precambrian crystalline basement gneisses, Neoproterozoic basalt (Wooltana Volcanics equivalent), Neoproterozoic limestone and dolomite and even Neoproterozoic–Cambrian sedex-style mineralization.

4.0 EXPLORATION ACTIVITY UNDERTAKEN IN THE CURRENT PERIOD

4.1 Geophysical data review

Gravity data acquired previously by Minotaur (Hart et al, 2008) was further reviewed by Minotaur staff during the current reporting period.

The gravity survey defined a 30 km long curvilinear positive anomaly with a 7-8 mgal amplitude. The source of the anomaly was initially interpreted to be a high-angle reverse thrust responsible for (i) uplifting dense lithologies to a higher structural level and (ii) focussing fluids (Hart et al, 2008).

During the recent data review, a pre-existing drillhole into the gravity feature was identified, which had intercepted a thick sequence of Adelaidean strata, thereby indicating that the gravity feature was entirely due to a shallow, thick wedge of Adelaidean rocks. Previously the gravity feature was interpreted to be due to a shallowing of Gawler Craton basement unit rocks beneath a thin layer of Adelaidean rocks.

Subsequent gravity modelling proved that the entire gravity response could be caused by the thick wedge of Adelaidean rocks.

A 2.5D model was constructed within Modelvision over the peak of the anomaly, where Minotaur had acquired data for a detailed profile (Figures 4-5). The model was generated using a palaeo high with deep sediment on the western side of a shallow wedge of Adelaidean followed by a gradual thickening of cover units on the eastern side. Examination of basement depths from all drillholes into basement showed that the gravity anomalism reflected the depth of Tertiary cover.

The gravity target is no longer of interest as there does not appear to be any shallow basement present. The shallow sequence of Adelaidean is not sufficiently prospective for significant metal deposits to warrant further exploration activity.

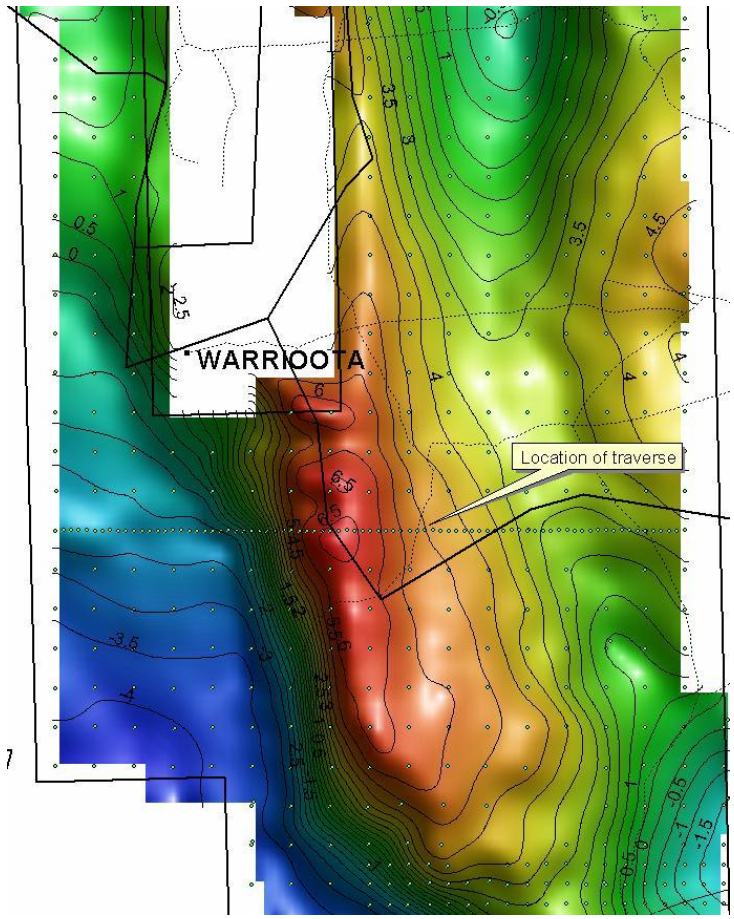

Figure 4. 2008 gravity stations, including detailed traverse, over gravity image showing anomaly of interest within EL 3921 (Mt James).

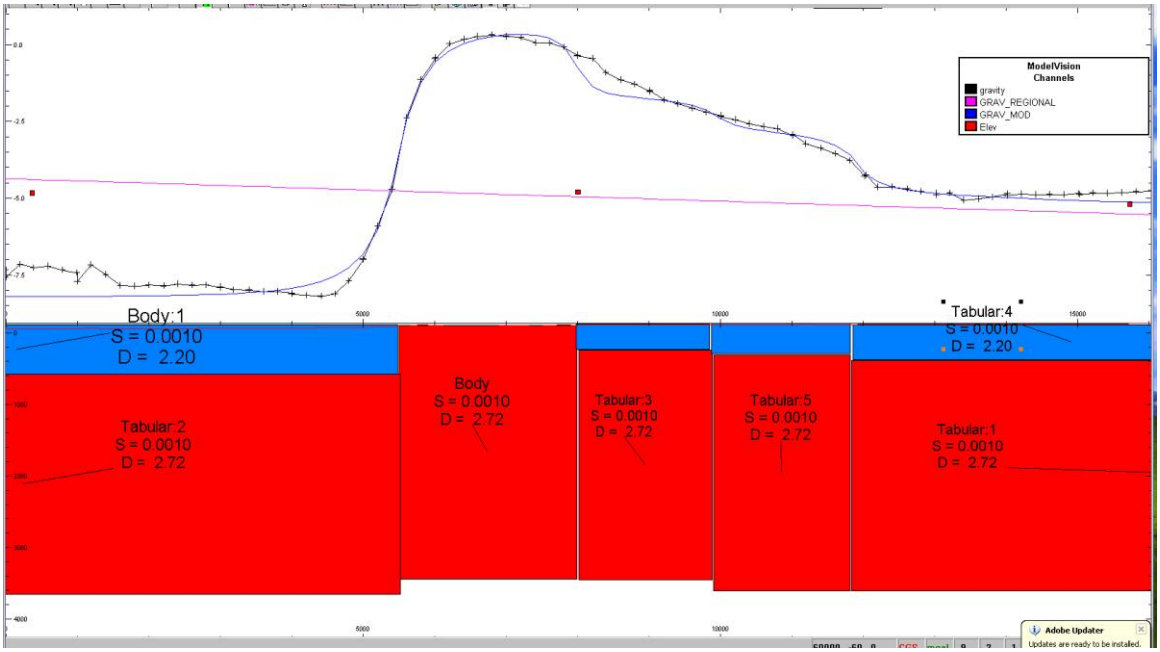

Figure 5. 2.5D Modelvision model created with detailed traverse data from EL 3921.

4.2 Review of barite occurrences

A brief preliminary assessment of barite mineral occurrences within EL 3921 and their economic potential was conducted based on information available within PIRSA's GIS database. None of the barite prospects have been field checked by Minotaur personnel.

Approximately 20 known occurrences of barite lie in a curvi-linear array coincident with the gravity anomaly discussed in Section 4.1 (Figure 6). Metal zonation is apparent along the structure: a central Cu-Pb-Ag-(Ba) zone is surrounded by a Pb-Ag-(barite) zone and a peripheral barite-only zone. These mineral occurrences are interpreted to relate to a 'sedimentary exhalative' mineralisation model, i.e. a syn-sedimentary fault zone reactivated during the Delamerian Orogeny served as a fluid conduit with a metal-rich zone occurring proximal to the fault whilst a barite halo extends further beyond the conduit (Large, 1980).

The barite-only deposits predominantly occur as discordant barite veins of various strike orientations, however, NE-striking veins are the most commonly documented.

The Black Eagle Mine (Cu, Pb, Ba) is a Mississippi Valley-style carbonate association with copper-lead mineralisation. The Ediacara Mine (Pb-Ag-Ba), accessed by at least two workings (Greenwoods and Morishs), exploited a two foot breccia horizon hosting syngenetic galena in fractures, as well as a sedimentary breccia lode zone displaced by the Gap Creek Fault with barite occurring in the fault zone. Calcareous silts and shales host Pb-Ag-Cu-Zn mineralisation in a breccia horizon at the Beltana silver mine.

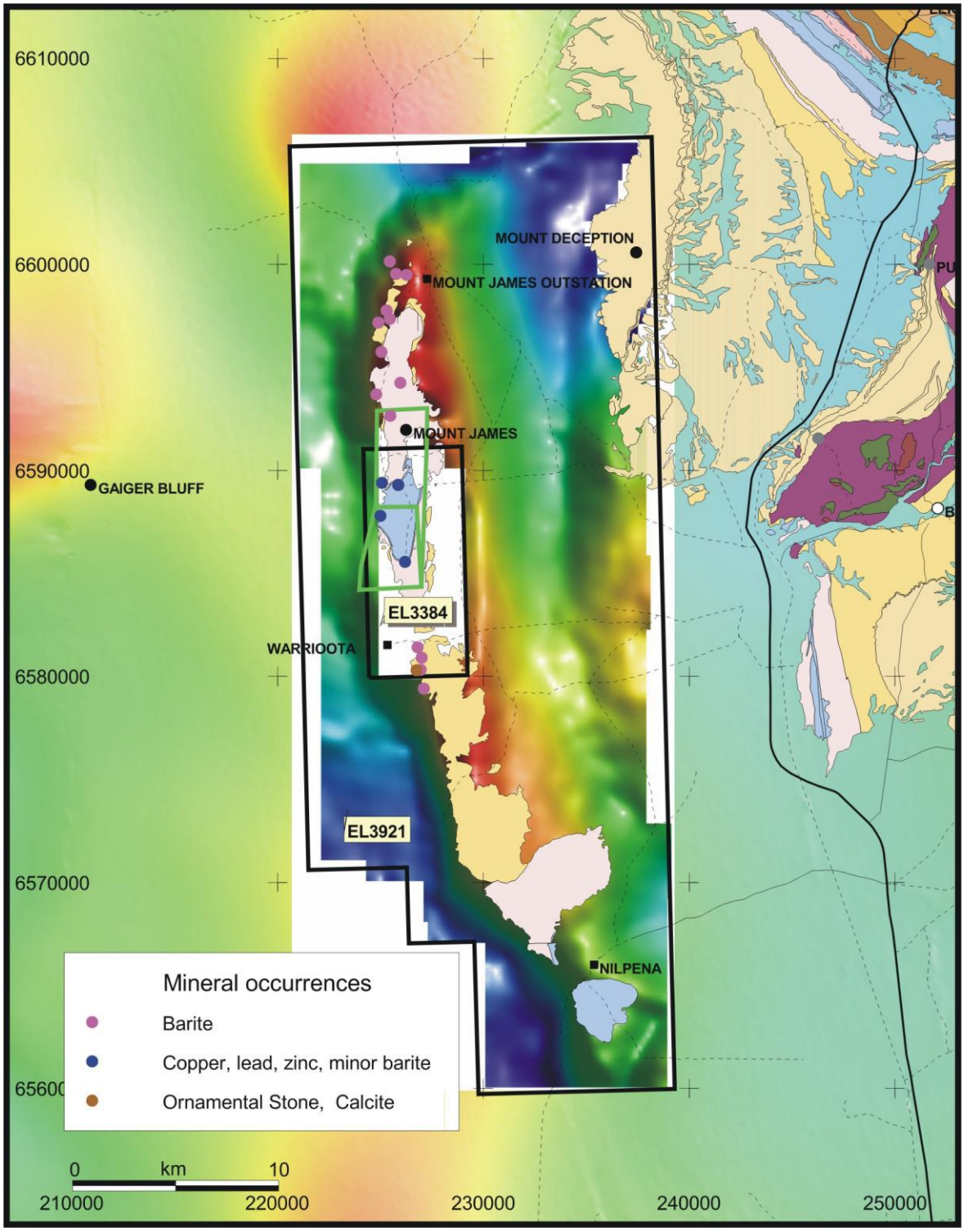

Figure 6. Barite occurrences within EL 3921 and the Ediacara Fossil Reserve, relative to outcrop geology (PIRSA), detailed gravity image and regional TMI image.

5.0 EXPENDITURE

Total expenditure for activities on EL 3921 (Mt James) for the year ending 2nd September 2009 was $33,235.24 (Table 1).

Cartography / Maps / Data	$	996.30
Communications	$	161.38
Computer Expenses	$	1,903.00
Consultant - Geophysics	$	90.91
Field Expenses	$	2,045.71
Land Access	$	1,657.62
Major Equipment Hire	$	1,200.00
Motor Vehicle Expenses	$	2,600.33
Salaries	$	14,283.00
Tenement Licensing	$	5,275.60
Admin 10%	$	3,021.39
TOTAL	**$**	**33,235.24**

Table 1. Summary of exploration expenditure for EL 3921 (Mt James) for the year ending 2nd September 2009.

6.0 REFERENCES

Hart, J.R., Thompson, A.D. and Flint, R.B., 2008. Annual technical report, EL 3921 Mt James, South Australia for year ending 2nd September 2008. *Minotaur Exploration Ltd* (unpublished).

Large, D.E., 1980. Geologic parameters associated with sediment-hosted submarine exhalative Pb-Zn deposits: An empirical model for mineral exploration in Stratiform Cu-Pb-Zn deposits. *Geologisches Jahrbuch*, series D, volume 40, pages 59-129.

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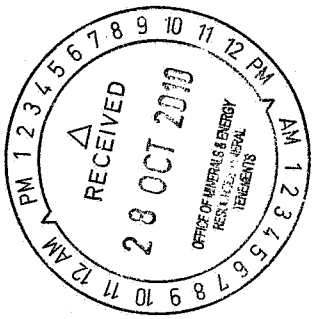
MINOTAUR

27 October 2010



Executive Director
PIRSA - Mineral Resources
GPO Box 1671
ADELAIDE, SA 5001

Attention: Rob Shaw

Dear Rob,

RE: Annual Technical Report for EL 3921 – Mount James

I refer to the Annual Technical Report for Exploration Licence 3921 (Mount James) for the year ending 2nd September 2010.

No field exploration activities were conducted by Minotaur Operations Pty Ltd (Minotaur) on this tenement during the reporting period; hence this letter represents the Annual Technical Report for EL 3921.

Activities undertaken by Minotaur included

- Review of barite occurrences, their geological setting, nature, extent and factors influencing their emplacement,
- Re-assessment into the cause of the regional positive gravity anomaly — topographic feature or density variations within the basement?
- Assessment was made that the potential for IOCG-style mineralisation on the tenement was considered to be very low, and hence the tenement was allowed to expire on 2nd September 2010.

Should you require any further information please contact me on 8366 6000.

Yours sincerely

Phil Cronin
Tenement Administrator
Minotaur Operations Pty Ltd

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