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EL 2016 AND EL 2665

DEEP WELL DAM

ANNUAL AND FINAL SURRENDER REPORTS FOR THE PERIOD 2/9/94 TO 13/4/2003

Submitted by
CRA / Rio Tinto Exploration Pty Ltd and BHP Minerals Pty Ltd
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ANNUAL REPORT FOR DEEP WELL DAM EL 2016, SOUTH AUSTRALIA, FOR THE PERIOD ENDED 1ST SEPTEMBER, 1995

Curnamona SH5414, South Australia

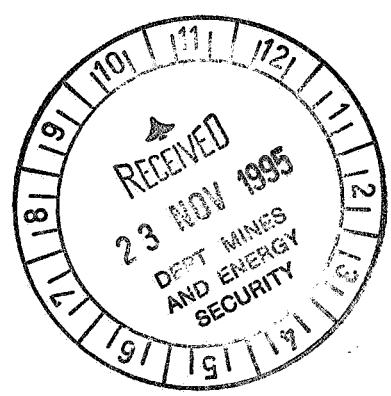
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SAa 6535	Deep Well Dam EL 2016, S.A. - Airborne Geophysical Survey T.M.I. Contours	1: 50 000
SAa 6536	Deep Well Dam EL 2016, S.A. - Airborne Geophysical Survey Analytical Function Profiles	1: 50 000
SAa 6537	Deep Well Dam EL 2016, S.A. - Airborne Geophysical Survey Flight Path	1: 50 000
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SAa 6538	Deep Well Dam EL 2016, S.A. - Location of Stream Sediment Samples, Electrical Geophysics & RAB Drilling	1:100 000
SAa 6534	Deep Well Dam EL 2016, S.A. - Remnant Magnetic Anomaly, Ground Magnetic Profile	1: 25 000

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1. SUMMARY

An airborne magnetic/radiometric survey was completed across the tenement.

Short traverses of IP, CSAMT and ground magnetics were completed in the southern part of the EL. Lag sampling was carried out on these lines at 500m spacing. TEM was carried out at Deep Well Dam and Claypan South Prospects.

Regional, helicopter supported, high-iron lag and stream sediment sampling programmes were completed.

Ground magnetics and three RAB holes were completed across a remnantly magnetised aeromagnetic anomaly.

2. INTRODUCTION

Exploration licence 2016, Deep Well Dam is located approximately 60 km NNE of Olary and covers an area of 347 kms^2 (plan SAa 6284). The licence was granted on 2nd September, 1994 for a period of one year. Extension of term was granted to 1st September, 1997.

This report documents investigations completed during the reporting period ending 1st September, 1995.

3. CONCLUSIONS

Elevated geochemistry from the regional lag survey requires follow-up.

Some further work may be justified at the remnant by magnetised magnetic anomaly.

4. INVESTIGATIONS

4.1 Airborne Magnetic/Radiometric Survey

An airborne magnetic/radiometric survey was completed across the entire tenement. Lines were flown at 100m spacing both E-W and N-S directions, the direction being dependant on the structural grain of the underlying geology, a total of 5625.4 line kms were flown (Appendix I, plans SAa 6535 to 6537).

4.2 Regional Lag Sampling

A helicopter supported ferruginous lag sampling programme was completed for a total of 91 samples (plan SAa 6533).

Lag samples were taken at a nominal density of one sample/4 km^2. At each sample site surficial lag was swept from within a radius of several metres. Each sample was sieved on site and the -7mm+2.5mm fraction retained for analysis. Up to 8 kg of sample was collected at each site and forwarded to Analabs Laboratory in Perth. The high iron portion was concentrated by TBE separation, and the sinks were analysed for a suite of 30 elements. Sampling aimed to collect enough material to yield a minimum sink weight of 5g and a maximum of 100g.

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Maximums of 48 ppb Au, 188 ppm Cu, 153 ppm Pb and 227 ppm Zn were returned (Appendix II). A weak Au-Pb-Zn anomaly, aligned in a NNW direction, occurs in the northern part of the tenement (plan SAa 6533) where Cainozoic cover is around 50m thick.

4.3 Regional Stream Sediment Sampling

Four stream sediment samples were collected in the southern part of the licence (plan SAa 6538) as part of a helicopter supported sampling programme in the adjoining Kalabity EL 1864. No significant results were returned (Appendix III).

4.4 Reconnaissance Traverse Lines

Two small lines of CSAMT (2.5 line kms) and ground magnetics were completed in Deep Well Dam as part of a survey in the adjoining Kalabity EL 1864 (plan SAa 6538). No significant anomalies were detected (Appendix IV).

Four lag samples were collected along the above lines at 500m spacing (plan SAa 6533). No significant results were returned (Appendix VI).

4.5 TEM

A total of 7.2 line kms of In-loop TEM were completed at Deep Well Dam and Claypan South prospects (plan SAa 6538, Appendix V) to follow up features interpreted from the aeromagnetic survey.

Two lines were completed at Deep Well Dam to test across the intersection of two regional faults adjacent to a granitic intrusion. area. No significant anomalies were detected.

One line was completed at Claypan South to test a discrete magnetic anomaly within the pelite sequence. No significant anomalies were detected.

4.6 IP

A total of 0.6 line kms of 100m dipole-dipole IP were recorded as part of a survey in the adjoining Kalabity EL (plan SAa 6538, Appendix IV). No significant anomalies were detected.

4.7 Remnant Magnetic Anomaly

Ground magnetics were completed across a distinct, remnantly magnetised, aeromagnetic anomaly west of Deep Well Dam (plan SAa 6538, 6534).

Three RAB drillholes were drilled across the anomaly (plan SAa 6534). The drilling intersected a fine grained mafic corresponding to the anomaly and pelitic lithologies either side (Appendix VII). The mafic returned a susceptibility of 200 x 10^{-5} SI against a background of 20 x 10^{-5} in the pelites. Approximately 20m of poorly consolidated sediments overlay the basement rock with susceptibilities of up to 3000 x 10^{-5} SI in gravel bands 1-2m thick.

Anomalous Cu to 700ppm was returned from weathered pelite peripheral to the fine grained mafic.

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LOCATION

Curnamona SH5414 1:250 000

KEYWORDS

Olary, Drilling, Air Core, RAB, Stream Sediment Sampling, Lag Sampling, Ground CSAMT Survey, Ground Magnetic Survey, Ground EM Survey, Aerial Magnetic Survey, Aerial Radiometric Survey

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APPENDIX I

Logistics Report, Deep Well by Kevron, November 1994

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LOGISTICS REPORT

JOB 1270

DEEP WELL

FLOWN AND PROCESSED

BY

Kevron
Geophysics Pty. Ltd.

NOVEMBER 1994

LOGISTICS REPORT

AIRBORNE GEOPHYSICAL SURVEY

KEVRON GEOPHYSICS JOB NUMBER 1270

FOR

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LOGISTICS REPORT

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1. LOGISTICS

1.1 OPERATING BASE AND DATES OF FLYING

1.1.1 Operating Base

The crew and aircraft were based at Broken Hill New South Wales. The crew took accommodation at the Hill Top Motor Inn for the duration of the survey.

1.1.2 Dates of Flying

DATE	FLT	REMARKS	KMS FLOWN	ACCUM TOTAL
12/11	1	Operations Normal	72.6	72.6
14/11	2	Operations Normal	816.3	888.9
15/11	3	Operations Normal	710.7	1599.6
	4	Operations Normal	653.4	2253
16/11	5	Operations Normal	654.3	2907.3
	6	Operations Normal	811.5	3718.8
17/11	7	Operations Normal	997.4	4716.2
	8	Operations Normal	664.1	5380.3
18/11	9	Operations Normal	245.1	5625.4
Total Kilometres Flown				5625.4

1.2 AIRCRAFT DETAILS AND NAMES OF FIELD CREW

1.2.1 Aircraft

Twin engine Rockwell Commander 500S "Shrike", registration VH-WAM

1.2.2 Field Crew

Pilots G Wornes

Operators B Gribble

2. OPERATION MANAGEMENT

2.1 QUALITY MANAGEMENT

The normal procedure for collecting airborne geophysical data requires the operation of sophisticated electronic equipment on board the aircraft, and subsequent checking of the data collected, both in the air and on the ground. The responsibility for collecting the data rests with the Navigator/Operator on board. He is trained to do this by the technical engineer who installs and maintains such equipment.

During a flight, the data is constantly being monitored by means of the analogue chart recorder and various digital displays. The monitoring techniques used are beyond the scope of this document but are the result of many years of research and practical experience. The Navigator/Operator has before him a visual display of the magnetometer signal and recorded data, altitude, off line distance, line number and direction, ground speed etc. This equipment has been designed so that unacceptable data is either very obvious or flagged to trigger an alarm.

At the end of each day's flying, the analogue charts are further inspected for data quality, and the recorded flight path is plotted in the field to ensure it meets the specifications laid down. Unacceptable flight paths can thus be re flown the next day.

Collected data is then sent to the Company's office where it is immediately loaded into the processing computers and its statistics are inspected. If all channels are considered satisfactory, processing is then commenced. If it is not, then instructions are sent to the field crew for re-flying of specific portions.

The Navigator/Operator keeps a running log of each flight known as the "flight log" on which is recorded details of all lines flown, flight number, date etc, and any comments which may be required.

The training of Navigator/Operator is carried out initially on the ground and then in the air. Operators are not permitted to work on their own until both the Senior Operator and the Technical Engineer are satisfied as to their competency. The Navigator/Operator is also responsible for the correct

installation and operation of the ground base station magnetometer and for making the final decision as to whether the base station data is within specifications. Base station data is recorded in both digital and pseudo-analogue form and is closely re-examined after each days flying before being returned for processing. Many years of experience and several million line Km of survey have proved these methods adequate.

2.2 SAFETY MANAGEMENT

The overall responsibility for Safety and Health rests with the General Manager/Operations Manager.

Flying safety in general results from the conscientious application of the Air Navigation Regulations in regard to Rules of the Air and Maintenance requirements.

The Company is required by law to have an Operations Manual approved by the Civil Aviation Authority before any flying operation can be carried out and this document is available for inspection at the Company's Office. Routine checks by the Civil Aviation Authority ensure that all operations and maintenance meet the requirements of the law.

Further, every pilot has been extensively trained in low level flying and instrument flying and pilots are only employed after assessment of experience and ability.

Vehicle usage and driving habits are constantly under review by the Management and particular attention paid to off-road 4WD work and remote area survival techniques. The Company believes there is no substitute for experience, and no inexperienced staff are used in any phase of the operations unless they are accompanied by an experienced equivalent.

Emergency procedures in regard to aircraft are according to the Operations Manual and would normally be under the direction of Civil Aviation Authority.

In regard to vehicles, these are equipped with adequate radio equipment to enable two way communication with any aircraft and/or the RFDS. Sartimes for vehicles in remote areas are a Company requirement.

2.3 ENVIRONMENTAL MANAGEMENT

The aircraft operations are generally non-polluting. Ground operations are minor, as only two (2) vehicles are used. Commonsense rules apply to these tasks with particular reference to the use of camp sites, beacon sites, sacred sites etc. Any staff responsible for destroying property or land are liable for dismissal.

3. SURVEY DETAILS

3.1 DESCRIPTION OF AREA FLOWN

The Deep Well survey covers parts of the following 1:250,000 topographic map sheets.



Curnamona SH 54-14

The exact survey boundary is shown in Appendix 1. The survey distance was approximately : 5625.4 Kms

3.2 SURVEY SPECIFICATIONS

Flight line direction		: 090-270 Degrees AMG
		: 000-180 Degrees AMG
Flight line spacing		: 100 Metres
Tie line direction		: 000-180 Degrees AMG
		: 090-270 Degrees AMG
Tie line spacing		: 1000 Metres
Mean Terrain Clearance		: 70 Metres
Time Base	Magnetics	: 0.10 Second
	Radiometrics	: 1.00 Second
Sample Interval (in still air)		
	Magnetics	: 6-8 metres or less
	Radiometrics	: 70 metres or less

3.3 NAVIGATION

The primary navigation method was by GPS Satellite Receiver (Ashtech). This equipment fixes the aircraft position every second and records the information on the acquisition tape. At the same time the on board navigation computer produces a steering signal for the pilot's guidance and this is also updated once per 0.5 seconds.

Pseudo range information is recorded at each 5 second epoch at both the aircraft and base station GPS receivers, this enables subsequent post mission differential calculations to be made,

3.3.1 GPS Base Station Position

The raw GPS data were differentially corrected Real Time, to give corrected GPS positional data to an accuracy of 5 metres or less RMS. The base station was situated at the Hilltop Motor Inn.

For a full report of the GPS Base Station position refer to Appendix 2.

3.4 FLIGHT PATH RECOVERY

The flight path was plotted from the Real Time GPS data.

3.5 MAGNETOMETER

The magnetometer used was an optically pumped Caesium Vapour model VIW 2321 - H8 manufactured by Scintrex. The magnetometer sensor was mounted in a stinger on the aircraft. The magnetometer sensor is coupled to a RMS Instruments Automatic Aeromagnetic Digital Compensator (AADC) to produce a measurement of the earth's magnetic field. The AADC compensates the total magnetic field data in real time for the effects of the aircraft's motion, changes in attitude and heading. To do this the AADC uses a set of interference coefficients calculated from a compensation flight carried out before the survey commenced.

The AADC outputs digital data with a resolution and sensitivity of 0.001 nT at a sampling rate of ten (10) times per second. This data was recorded digitally. This data was also recorded in analogue form.

Magnetometer summary:

Time base	0.100 seconds
Sample interval	7m approx.
Resolution	0.001 nT
Sensitivity	0.001 nT

Analogue chart full scale deflection:

Mag Fine	200 nT
Mag Coarse	200 nT
Mag Coarse	2000 nT

3.6 SPECTROMETER

A Geometrics GR-820D double buffered, multi-channel gamma ray spectrometer was used with a downward crystal array volume of 33.6 lt and upward array volume of 4.2 lt. A Geometrics GR-900 controlled the gains and temperature of the crystal packs. The GR-820D produced both digital and analogue data and was recorded every 1.0 seconds.

3.6.1 Digital Recording

Digital data from the GR-820D spectrometer are as follows:

1. Accumulation time
2. Total number of counts during Accumulation time for downward array

3. Total count	0.40 - 3.00 MeV
4. K40	1.37 - 1.57 MeV
5. BI - 214	1.67 - 1.89 MeV

6.	TL - 208	2.42 - 2.82 MeV
7.	Cosmic	3.00 - 6.00 MeV
8.	Total number of counts for upward array	
9.	Total count	0.40 - 3.00 MeV
10.	BI-214	1.67 - 1.89 MeV

3.6.2. Analogue Recording

Four channels of data was recorded in analogue form. The analogue data was corrected for dead time and normalised and were stripped for compton scatter.

The channels recorded were:

Total count	5000 counts fsd
K 40	500 counts fsd
BI-214	500 counts fsd
TL-208	500 counts fsd

3.7 ALTIMETER

3.7.1 Radar Altimeter

A Sperry AA-210 Radar Altimeter system was used, this being a high resolution, short pulse radio altitude system designed for automatic continuous operation over a wide variation of terrain, target reflectivity, weather and aircraft altitude. The radar altimeter indicator provides an absolute altitude display from 0 - 750 metres (0 - 2,500 feet). The output of the equipment was 4 mV/ft.

3.7.2 Analogue Barometric Altimeter

A Rosemount 1241 m Barometer, a capacitive capsule device with high repeatability and accuracy, was used. The output of this equipment was 0.666 mV/ft.

Data from both altimeters were recorded on digital tape and recorded on the analogue chart.

3.8 BASE STATION MAGNETOMETER

The base station magnetometer, incorporating an Epson PX-8 Computer, P-40 Printer and Geometrics G-856 Magnetometer with analogue and digital recording was established 500 metres west of RFDS Base at the airport in an area of low gradient. The base station was positioned away from man-made influences and run continuously throughout the survey flying period with a sampling interval of 6 seconds and a sensitivity of 0.1 nt.

3.9 DATA ACQUISITION

A RMS Instruments DAS-8 Data Acquisition System was used to record all data in digital format on DC-300 data cartridges in a RMS Instruments TCR-12 Tape Cartridge Recorder.

A RMS Instruments GR-33 printer-plotter was used to record the analogue information.

3.10 FLIGHT TRACK RECORDING SYSTEM

A VHS video tracking system with a wide angle lens was used to record the flight path of the aircraft. The system used a National ccd video camera and a video recorder. Recorded on the video image is the line number and fiducial number.

4. CALIBRATIONS

4.1 MAGNETICS

4.1.1 Magnetic Noise Envelope

The noise envelope was less than 0.1 nT standard deviation for the entire aircraft flight envelope. (Refer Appendix 5).

4.1.2 Heading Error Checks

The aircraft was compensated using the RMS AADC. This is achieved by flying a series of pitch, roll and yaw manoeuvres in each of the four cardinal headings. A mathematical model was used to calculate the effects due to permanent, induced and eddy currents on the magnetometer in real time. The heading error was less than 1.0 nT. (Refer Appendix 5)

4.1.3 Parallax

Parallax was resolved by flying over a suitable anomaly in opposite directions within each area. The parallax for the system was resolved to 8 fiducials or 70 m approximately.

4.2 RADIOMETRICS

4.2.1. Background Correction Plots and Equations

The following is the processing scheme for computing aircraft background and cosmic radiation: (Appendix 6)

A. Fly a stack of seven (7) lines over water, west of the Perth coast with the altitudes from 1,000 ft to 10,000 ft. with increments of 500 feet.

B. The radiometrics ie. Potassium, Uranium, Thorium, Total Count and Cosmic were corrected for dead time (8 x 10[- 6] seconds) and scaled to counts per second for all lines.

C. The mean value of each line, for each element, was used for computing the background and cosmic.

D. Each radiometric element (K. U, Th) and Total Count were independently processed through a curve fitting program, using cosmic versus each radiometric variable. Thus producing a best linear (Y = mx + b) fit for Potassium, Uranium, Thorium and Total Count.

E. The curve-fitting program displays the parameters to produce the linear fit, where b is aircraft background and mx is the cosmic radiation correction.

4.2.2 Constants Derived From Background Tests

Channel	Background	Cosmic
Total Count	199.0	1.918
Potassium	18.0	0.108
Uranium	9.0	0.092
Thorium	5.0	0.112

4.2.3 Pre and Post Flight Checks

A statistical summary of the pre and post flight hand sample checks is enclosed at the rear of this report (see Appendix No: 4).

4.2.4 Hand Samples

The following sources were used:

Thorium sample
Uranium sample
Caesium 137 sample

4.2.5 Test Line

A test line was chosen to the south of the survey area. The start and end co-ordinates are as follows:

-31 52.4933	140 18.4079
-31 50.5896	140 17.0160

Some variation was noticeable in the total count and uranium levels due to daily radon variations. These variations showed some correlation with wind condition, windy days lower than calm days.

The day to day response from the test line was considered a satisfactory indication that the system was performing well.

4.2.6 Analogue Stripping Coefficients

These coefficients were obtained using point source Thorium and Uranium samples placed to give a uniform irradiation of the crystal pack, while the GR-820 subtraction switches were adjusted to give minimum observable contribution into the other channels.

The following stripping coefficients were used:

alpha	0.24	(Tl-208 from Bi-214)
beta	0.14	(Tl-208 from K-40)
gamma	0.78	(Bi-214 from K-40)

4.2.7 Data Reduction

The data reduction of the 256 channel spectrometry data is undertaken to 4 channels (raw data) in the GR-820D Spectrometer.

5. DATA PROCESSING

The following section summarises the techniques used for reduction and processing of airborne data.

5.1 Data Verification

The airborne data is recorded on DC300 XLP cartridges. These tapes are read into Kevron Geophysics "in-house" computing system using Sun computers at Jandakot, Perth. Australia.

These raw data file are then imported into a geophysical data base where these data can be easily manipulated and displayed. This initial procedure reports duplicate or missing data and a statistical analysis of each variable on a line by line basis. The data are then displayed on screen, each channel of data that is recorded in the aircraft is checked for consistency, spikes, steps, noise etc.

Data which appears to have errors can be zoomed in on, evaluated and then corrected by experienced data processing personnel. Editing of data for scrubed line and or duplicate line numbers are also done at this stage.

Upon completion of this phase, the data are ready for subsequent correction of the Radiometrics and reduction of the magnetics.

5.2 Flight Path Recovery

The differentially corrected GPS data are converted to Universal Transverse Mercator coordinates using the Australian National Spheroid.

The data are in grid UTM Zone 54 with a central meridian of 141 degrees East, with an x-bias of 500 kilometres and a y-bias of 10,000 kilometres.

Flight path maps are then generated to verify the offline tolerances and to make sure all necessary data has been loaded into the geophysical data base.

5.3 Magnetic Processing

The magnetic data reduction processes are:

1. Correction for diurnal variation.
2. Tie line levelling to a common datum.
3. Subtraction of the regional magnetic field as defined by the International Geomagnetic Reference Field (IGRF).

5.3.1 Diurnal Correction

During data acquisition, the magnetic field is monitored by a ground-based diurnal magnetometer that sample every five seconds at a sensitivity of 0.1 nT. These data are recorded along with the local time for later synchronisation with the airborne data. The diurnal data

are edited to keep only those readings taken during flight time. This data is visually checked on the computer screen for spikes, noise and any man-made magnetic event.

After editing, data are low pass filtered using a spatial domain filter with a cut-off at twenty (20) terms. This cuts off all data with periods of less than thirty (30) seconds. The data is again checked visually for integrity after the filtering process.

The filtered data are synchronised in time with the airborne data, interpolated and subtracted from the airborne data, one sample at a time. After subtraction, the mean diurnal value was added back to the airborne data for each line to produce diurnally corrected data.

5.3.2 Tie Line Levelling

The diurnally corrected data are then processed by a levelling program that compares the magnetic differences at intersections of the flight lines and tie lines. This program calculates individual magnetic field biases for each flight line based on the tie line intersection. This allows miss-ties to be minimised in a least- squares sense throughout the survey. These biases usually represent, after diurnal correction, systematic magnetic changes caused by such things as magnetic heading changes of the aircraft, changes in location of the ground-based magnetometer, or changes in the airborne equipment. The biases are manually evaluated and selectively applied. Further reduction of the miss-ties can be removed by fitting a polynomial to these. This final procedure produces levelled magnetic data.

5.3.3 Subtraction of the IGRF

The International Geomagnetic Reference Field (IGRF) is then subtracted from the levelled data. This is achieved by fitting a second order polynomial surface to thirteen coefficients computed from the IGRF model. This subtraction is on a sample by sample basis.

The IGRF 1990 model updated to 1994.95 was used. The IGRF model for the Deep Well survey has the following approximate values:

Magnetic Declination	- 8.21 degrees
Magnetic Inclination	-64.25 degrees
Total Field Strength	57934.51 gammas

These data are then gridded, with a mesh size 50 x 50 metres, the gridding is a minimum curvature algorithm based on the Briggs 1974. These gridded data are displayed on an image processor to check data integrity and data levelling. If the gridded data shows line dependant problems, then further levelling adjustments are made and checked.

When all line dependencies are removed then final magnetic grids are produced. At this stage contour maps and profile maps can be generated.

5.4 Radiometric Processing

Processing of the data was performed using the window energies given below;

Total count	0.40	-	3.00 MeV
Potassium	1.37	-	1.57 MeV
Uranium	1.66	-	1.87 MeV
Thorium	2.41	-	2.81 MeV
Cosmic	3.00	-	6.00 Mev

Data has been corrected for aircraft and cosmic backgrounds. Height corrected to a constant datum of 70 metres, minimum height of 20 metres and a maximum height of 300 metres.

VARIABLE	AIRCRAFT BACKGROUND	COSMIC BACKGROUND	HEIGHT ATTENUATION
TOTAL COUNT	108.00	1.800	0.00574
POTASSIUM	14.50	0.101	0.00713
URANIUM	3.70	0.079	0.00730
THORIUM	3.60	0.105	0.00581

Data were also corrected for airborne radon using upward detector readings and corrected for channel interaction to produce corrected radiometric data for the four channels.

The procedure for correcting data for airborne radon follows the method described by R.L. Grasty, et.al; 1988: Background Measurements in Gamma-Ray Surveys: Geological Survey of Canada Paper 88-11.

These data are then gridded and displayed on an image processor to check data integrity and levelling. If line or flight dependencies appear in the data these are removed and data regridded and imaged. When line or flight dependencies are removed then final contours and profiles are produced.

5.5 Deliverable Items

The following six (6) maps were delivered on high quality materials, they are as follows:

4 X TMI Contours
1 X Analytic Profiles
1 X Flight Path

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DEEP WELL

DESCRIPTION OF SURVEY AREA

The survey area location is shown on the following map. The co-ordinates of the boundary lines, beginning at the North-West corner and proceeding clockwise, are as follows:

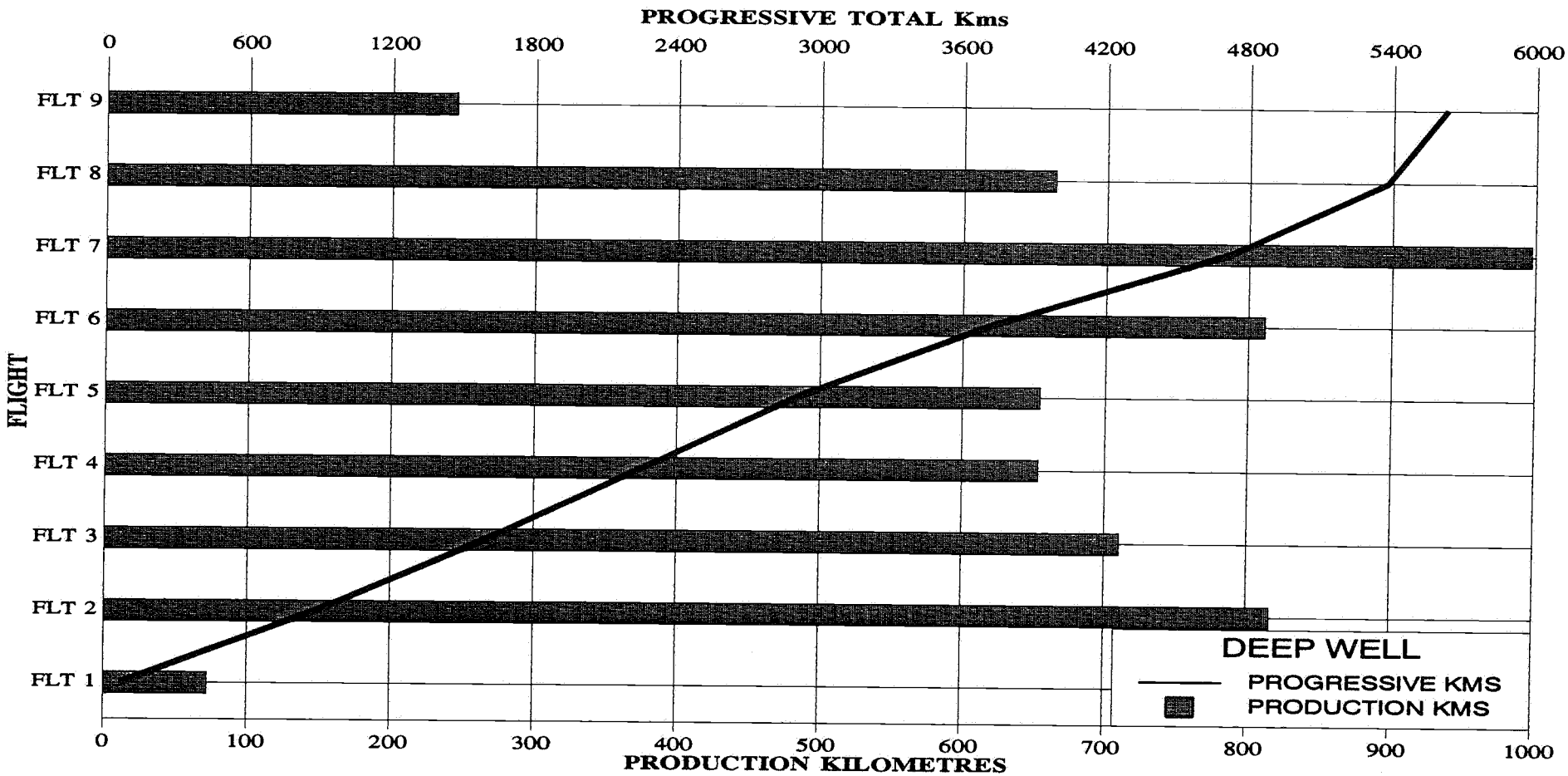
Coordinates are in AMG Zone 54

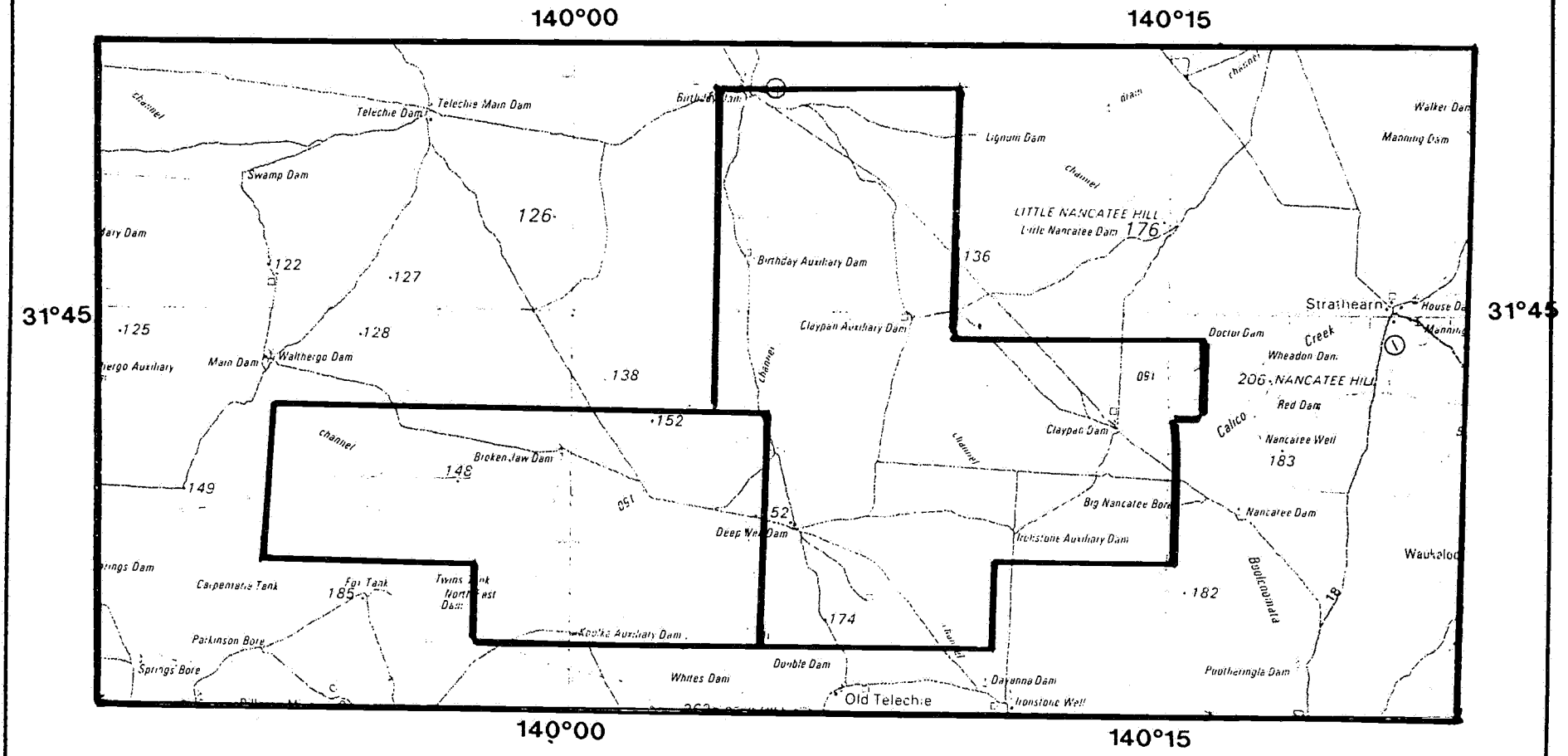
AMG mE	AMG m		AMG mE	AMG mN
Boundary lines used...				
413736.0,	6473840.0	to	411522.0,	6483024.0
411522.0,	6483024.0	to	411522.0,	6496197.0
411522.0,	6496197.0	to	421086.0,	6496197.0
421086.0,	6496197.0	to	421086.0,	6486180.0
421086.0,	6486180.0	to	431069.0,	6486180.0
431069.0,	6486180.0	to	431069.0,	6483133.0
431069.0,	6483133.0	to	429991.0,	6483133.0
429991.0,	6483133.0	to	429991.0,	6477280.0
429991.0,	6477280.0	to	422948.0,	6477280.0
422948.0,	6477280.0	to	422948.0,	6473840.0
422948.0,	6473840.0	to	402252.0,	6473840.0
402252.0,	6473840.0	to	402252.0,	6476982.0
402252.0,	6476982.0	to	394274.0,	6476982.0
394274.0,	6476982.0	to	394274.0,	6483024.0
394274.0,	6483024.0	to	413736.0,	6483024.0
413736.0,	6483024.0	to	422948.0,	6477280.0

Type	Dir	Spc	Shortest	Longest	Lines	Tot. Dist
TRAVERSE	90.0	100.0 m	7.0 Km	20.5 Km	436	5127.1 Km
TIES	0.0	1000.0 m	3.8 Km	23.4 Km	30	502.0 Km
TOTAL						5629.1 Km

Kevron
Geophysics Pty. Ltd.

	FLT 1	FLT 2	FLT 3	FLT 4	FLT 5	FLT 6	FLT 7	FLT 8	FLT 9
PROD	72.6	816.3	710.7	653.4	654.3	811.5	997.4	664.1	245.1
PROG	72.6	888.9	1599.6	2253	2907.3	3718.8	4716.2	5380.3	5625.4





LINE DIRECTION: 090-270 & 000-180

LINE SPACING: 100 m

SURVEY HEIGHT: 70 m

1:250,000 MAP REFERENCE

CURNAMONA SH 54 -14

CRA EXPLORATION PTY LIMITED
AIRBORNE GEOPHYSICAL SURVEY

DEEP WELL

JOB No	1270	DATE	NOV 1994

CRA EXPLORATION PTY LTD

APPENDIX 2
GPS Base Station

DEEP WELL

GPS BASE STATION LOCATION REPORT

JOB NUMBER 1270 AREA DEEP WELL DATE 11/11/94

LOCATION BROKEN HILL HILLTOP MOTOR INN ROOM 30

START TIME FOR ACCUMULATION 10TH NOVEMBER 20:00

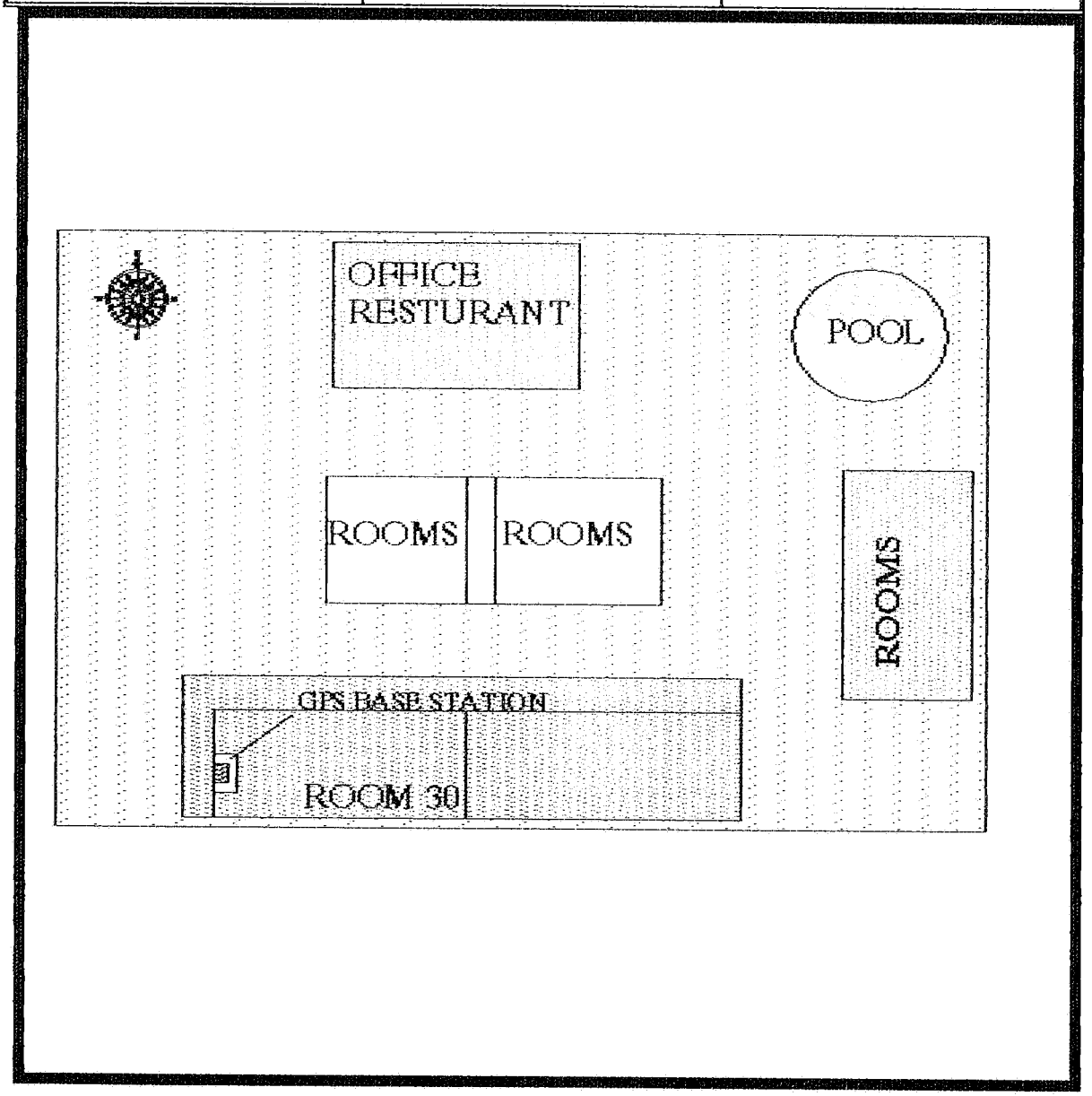
STOP TIME FOR ACCUMULATION 11TH NOVEMBER 18:10

SAMPLE INTERVAL 10 secs. PDOP LIMIT SET AT < 4

NUMBER OF POINTS IN STATISTICS 6433

MEAN POSITIONS

WGS-84	AGD-84	AMG
LAT. 31°57'15.9573	LAT.31°57'21.3454	E.542643
LON.141°27'09.1198	LON.141°27'04.4811	N.6464348
ALT. 368.11	ALT.369.393	Zone. 54



CRA EXPLORATION PTY LTD

APPENDIX 3
Flight Logs

DEEP WELL

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 12/11/94 Julian Day 316

FLIGHT No 1
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0							1	CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
N	9030.0	4820	5649	12.30	12.32				
S	9029.0	5650	7419	12.33	12.36				
N	9028.0	7420	9049	12.38	12.41				
S	9027.0	9050	10799	12.42	12.45				
N	9026.0	10800	12449	12.46	12.49				
S	9025.0	12450	14239	12.50	12.53				
N	9024.0	14240	15849	12.53	12.56				
S	9023.0	15850	17619	12.57	13.00				
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								CS

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 14/11/94 Julian Day 318
FLIGHT No 2
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0							1	CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
W	0030.0	0	899	11.08	11.10				HIGH LEVEL
NW	0001.0	900	1489	11.20	11.21				TEST LINE
N	9022.0	1490	3749	11.25	11.28				
S	9021.0	3750	7629	11.31	11.38				
N	9020.0	7630	11129	11.39	11.45				
S	9019.0	11130	15009	11.46	11.52				
N	9018.0	15010	18399	11.53	11.59				
S	9017.0	18400	22239	12.00	12.07				
N	9016.0	22240	25779	12.07	12.13				
S	9015.0	25780	29549	12.14	12.20				
N	9014.0	29550	33099	12.21	12.27				
S	9013.0	33100	36859	12.28	12.34				
N	9012.0	36860	39159	12.37	12.40				
S	9011.0	39160	41729	12.41	12.46				
W	9001.0	41730	44819	12.48	12.53				
E	9002.0	44820	48109	12.54	12.59				
W	9003.0	48110	51219	13.00	13.05				
E	9004.0	51220	54489	13.06	13.12				
W	9005.0	54490	57569	13.12	13.17				
E	9006.0	57570	60769	13.18	13.23				
W	9007.0	60770	63889	13.24	13.29				
E	9008.0	63890	65889	13.32	13.35				
N	9009.0	65890	67869	13.36	13.39				
E	9010.0	67870	69879	13.40	13.43				
N	1201.0	69880	71459	13.46	13.48			2	

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 14/11/94 Julian Day 318

FLIGHT No 2
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
S	1191.0	71460	73229	13.49	13.52			2	
N	1200.0	73230	74849	13.53	13.55				
S	1190.0	74850	76639	13.56	13.59				
N	1199.0	76640	78269	14.00	14.03				
S	1189.0	78270	80849	14.03	14.06				
N	1198.0	80850	81729	14.07	14.10				
S	1188.0	81730	83429	14.10	14.13				
N	1197.0	93430	85049	14.14	14.17				
S	1187.0	85050	86789	14.17	14.20				
N	1196.0	86790	98399	14.21	14.24				
S	1186.0	88400	90219	14.24	14.28				
N	1195.0	90220	91809	14.28	14.31				
S	1185.0	91810	93549	14.32	14.35				
N	1194.0	93550	95169	14.35	14.38				
S	1184.0	95170	96929	14.39	14.42				
N	1193.0	96930	98539	14.42	14.45				
S	1183.0	98540	100319	14.46	14.49				
N	1192.0	100320	101939	14.50	14.52				
E	1202.0	0	1019	14.56	14.59				
W	1212.0	1020	3679	15.00	15.03				
E	1203.0	3680	5529	15.04	15.07				
W	1213.0	5530	7269	15.07	15.10				
E	1204.0	7270	8999	15.11	15.14				
W	1214.0	9000	10739	15.14	15.17				
E	1205.0	10740	12619	15.18	15.21				
W	1215.0	12620	14359	15.22	15.25				
E	1206.0	14360	16169	15.25	15.28				
W	1216.0	16170	17969	15.29	15.32				
E	1207.0	17970	19819	15.33	15.36				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 14/11/94 Julian Day 318
FLIGHT No 2
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
W	1217.0	19820	21549	15.36	15.39			2	
E	1208.0	21550	23349	15.40	15.43				
W	1218.0	23350	25079	15.44	15.46				
E	1209.0	25080	26889	15.47	15.50				
W	1219.0	26890	28669	15.51	15.54				
E	1210.0	28670	30489	15.54	15.58				
W	1220.0	30490	32239	15.58	16.01				
E	1211.0	32240	339999	16.02	16.05				
SE	0002.0	34000	34629	16.10	16.11				TEST LINE
E	0031.0	34630	35559	16.16	16.18				HIGH LEVEL
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								CS

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 15/11/94 Julian Day 319

FLIGHT No 3
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0								CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
W	0030.0	0	909	06.51	06.53				HIGH LEVEL
NW	0001.0	910	1479	07.12	07.13				TEST LINE
N	1001.0	1480	1609	07.23	07.23				
N	1001.1	1610	2799	07.26	07.28				
S	1011.0	2800	4289	07.29	07.31				
N	1002.0	4290	5729	07.32	07.35				
S	1012.0	5730	7189	07.36	07.38				
N	1003.0	7190	8389	07.39	07.41				
S	1013.0	8390	9859	07.41	07.44				
N	1004.0	9860	11129	07.44	07.47				
S	1014.0	11130		07.47	07.50				
N	1005.0		13839	07.50	07.53				
S	1015.0	13840	15269	07.53	07.56				
N	1006.0	15270	16619	07.57	07.59				
S	1016.0	16620	18069	08.00	08.03				
N	1007.0	18070	19299	08.03	08.05				
S	1017.0	19300	20769	08.06	08.09				
N	1008.0	20770	21969	08.09	08.11				
S	1018.0	21970	23439	08.12	08.15				
N	1009.0	23440	24609	08.15	08.17				
S	1019.0	24610	26069	08.18	08.20				
N	1010.0	26070	27299	08.21	08.23			3	
S	1020.0	27300	28799	08.24	08.26				
N	1030.0	28800	9989	08.27	08.29				
S	1021.0	29990	31569	08.30	08.32				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 15/11/94 Julian Day 319

FLIGHT No 3
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	1031.0	31570	32739	08.33	08.35			3	
S	1022.0	32740	34219	08.36	08.38				
N	1032.0	34220	35399	08.39	08.41				
S	1023.0	35400	36889	08.42	08.44				
N	1033.0	36890	38139	08.45	08.47				
S	1024.0	38140	39659	08.48	08.51				
N	1034.0	39660	40829	08.51	08.53				
S	1025.0	40830	42319	08.54	08.56				
N	1035.0	42320	43509	08.57	08.59				
S	1026.0	43510	45019	09.00	09.03				
N	1036.0	45020	46199	09.03	09.05				
S	1027.0	46200	47739	09.06	09.09				
N	1037.0	47340	48919	09.09	09.11				
S	1028.0	48920	50409	09.12	09.14				
N	1038.0	50410	51589	09.15	09.17				
S	1029.0	51590	53119	09.18	09.20				
N	1039.0	53120	54299	09.21	09.23				
S	1049.0	54300	55739	09.24	09.26				
N	1040.0	55740	56949	09.27	09.29				
S	1050.0	56950	58469	09.30	09.32				
N	1041.0	58470	58659	09.33	09.33				
N	1041.1	58660	59909	09.35	09.37				
S	1051.0	59910	61469	09.38	09.41				
N	1042.0	61470	62659	09.41	09.43				
S	1052.0	62660	64169	09.44	09.47				
N	1043.0	64170	65339	09.48	09.50				
S	1053.0	65340	66769	09.50	09.53				
N	1044.0	66770	67949	09.53	09.55				
S	1054.0	67950	69399	09.56	09.58				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 15/11/94 Julian Day 319 FLIGHT No 3 JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	1045.0	69400	70569	09.59	10.01			3	
S	1055.0	70570	72009	10.02	10.04				
N	1046.0	72010	73309	10.05	10.07				
S	1056.0	73310	74769	10.08	10.10				
N	1047.0	74770	75999	10..11	10.13				
S	1057.0	76000	77439	10.14	10.16				
N	1048.0	77440	78709	10.17	10.19				
S	1058.0	78710	80269	10.20	10.22				
N	1069.0	80270	81449	10.23	10.25				
S	1059.0	81450	82799	10.26	10.28				
N	1070.0	82800	84849	10.29	10.31				
S	1060.0	84850	85459	10.32	10.34				
N	1071.0	85460	86759	10.35	10.37				
S	1061.0	86760	88159	10.38	10.40				
N	1072.0	88160	89439	10.41	10.43				
S	1062.0	89440	90839	10.44	10.46				
N	1073.0	90840	92129	10.47	10.49				
S	1063.0	0	1379	10.51	10.53				
N	1074.0	1380	2649	10.54	10.56				
S	1064.0	2650	4029	10.57	10.59				
N	1075.0	4030	5309	11.00	11.02				
S	1065.0	5310	6689	11.03	11.05				
N	1076.0	6690	7949	11.05	11.08				
S	1066.0	7950	9279	11.08	11.10				
N	1077.0	9280	10559	11.11	11.13				
S	1067.0	10560	11899	11.14	11.16				
N	1078.0	11900	13149	11.17	11.19				
S	1068.0	13150	14479	11.19	11.22				
N	1079.0	14480	15709	11.22	11.24			4	

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 15/11/94 Julian Day 319

FLIGHT No 3
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
S	1089.0	15710	17539	11.25	11.28			4	
N	1080.0	17540	19219	11.29	11.32				
S	1090.0	19220	20999	11.32	11.35				
N	1081.0	21000	22669	11.36	11.39				
S	1091.0	22670	24429	11.40	11.43				
N	1082.0	24430	26079	11.43	11.46				
S	1092.0	26080	27869	11.46	11.49				
N	1083.0	27870	29549	11.50	11.53				
S	1093.0	29550	31289	11.53	11.57				
N	1084.0	31290	33279	11.57	12.01				
S	1094.0	33280	35169	12.02	12.05				
N	1085.0	35170	36849	12.06	12.09				
S	1095.0	36850	38689	12.09	12.12				
N	1086.0	38690	40339	12.13	12.16				
S	1096.0	40340	42249	12.17	12.20				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 15/11/94 Julian Day 319
FLIGHT No 4
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	1087.0	0	1599	14.01	14.04				
S	1097.0	1600	3559	14.05	14.08				
N	1088.0	3560	5219	14.09	14.12				
S	1098.0	5220	7119	14.13	14.16				
N	1108.0	7120	8899	14.17	14.20				
S	1099.0	8900	10809	14.21	14.24				
N	1109.0	10810	12439	14.24	14.27				
S	1100.0	12440	14359	14.28	14.32				
N	1110.0	14360	16039	14.33	14.35				
S	1101.0	16040	17909	14.36	14.40				
N	1111.0	17910	19659	14.40	14.43				
S	1102.0	19660	21539	14.44	14.47				
N	1112.0	21540	23249	14.48	14.51				
S	1103.0	23250	25139	14.52	14.55				
N	1113.0	25140	26759	14.56	14.58				
S	1104.0	26760	28619	14.59	15.02				
N	1114.0	28620	30209	15.03	15.06				
S	1105.0	30210	32089	15.07	15.10				
N	1115.0	32090	33709	15.10	15.13				
S	1106.0	33710	35639	15.14	15.17				
N	1116.0	35640	37249	15.18	15.21				
S	1107.0	37250	39099	15.22	15.25				
N	1117.0	39100	40969	15.26	15.29				
S	1127.0	40970	42849	15.30	15.37				
N	1118.0	42850	44499	15.34	15.37				
S	1128.0	44500	46389	15.38	15.41				
N	1119.0	46390	47989	15.42	15.44				
S	1129.0	47990	49919	15.45	15.49				
N	1120.0	49920	51489	15.49	15.52				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 15/11/94 Julian Day 319
FLIGHT No 4
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
S	1130.0	51490	53369	15.53	15.56				
N	1121.0	53370	54959	15.57	15.59				
S	1131.0	54960	56819	16.00	16.03				
N	1122.0	56820	58429	16.04	16.07			5	
S	1132.0	58430	60279	16.08	16.11				
N	1123.0	60280	61869	16.12	16.15				
S	1133.0	61870	63719	16.15	16.19				
N	1124.0	63720	65289	16.19	16.22				
S	1134.0	65290	67119	16.23	16.26				
N	1125.0	67120	68709	16.27	16.30				
S	1135.0	68710	70549	16.31	16.34				
N	1126.0	70550	72119	16.34	16.37				
S	1136.0	72120	73979	16.38	16.41				
N	1146.0	73980	75649	16.42	16.45				
S	1137.0	75650	77499	16.46	16.49				
N	1147.0	77500	79079	16.50	16.53				
S	1138.0	79080	80929	16.54	16.57				
N	1148.0	80930	82499	16.57	17.00				
S	1139.0	82500	84419	17.01	17.04				
N	1149.0	84420	86069	17.05	17.08				
S	1140.0	86070	88039	17.09	17.12				
N	1150.0	88040	89669	17.13	17.16				
S	1141.0	89670	91609	17.17	17.20				
N	1151.0	91610	93229	17.21	17.24				
S	1142.0	93230	95159	17.25	17.28				
N	1152.0	95160	96759	17.29	17.32				
S	1143.0	0	1859	17.33	17.37				
N	1153.0	1860	3459	17.38	17.40				
S	1144.0	3460	5329	17.41	17.44				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 15/11/94 Julian Day 319

FLIGHT No 4

JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	1154.0	5330	6889	17.45	17.48				
S	1145.0	6890	8829	17.49	17.52				
N	1155.0	8830	10419	17.53	17.56				
S	1165.0	10420	12349	17.57	18.00				
N	1156.0	12350	13939	18.01	18.04				
S	1166.0	13940	15869	18.05	18.08				
SE	0002.0	15870	16529	18.14	18.15				TEST LINE
E	0031.0	16530	17420	18.22	18.24				HIGH LEVEL
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								CS

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320

FLIGHT No 5
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0							5	CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
W	0030.0	0	919	07.02	07.04				HIGH LEVEL
NW	0001.0	920	1449	07.21	07.22				TEST LINE
S	1008.1	1450	2949	07.30	07.33				RE-FLY
N	1046.1	2950	4129	07.35	07.37				"
S	1157.0	4130	6089	07.41	07.44				
N	1167.0	6090	7639	07.45	07.47				
S	1158.0	7640	9649	07.48	07.51				
N	1168.0	9650	11229	07.52	07.55				
S	1159.0	11230	13259	07.56	08.00				
N	1169.0	13260	14849	08.00	08.03				
S	1160.0	14850	16849	08.04	08.07				
N	1170.0	16850	18449	08.08	08.11				
S	1161.0	18450	20419	08.12	08.15				
N	1171.0	20420	22079	08.16	08.19				
S	1162.0	22080	24019	08.20	08.23				
N	1172.0	24020	25629	08.24	08.27				
S	1163.0	25630	27539	08.28	08.31				
N	1173.0	27540	29149	08.32	08.34				
S	1164.0	29150	31049	08.35	08.38			6	
N	1174.0	31050	32679	08.39	08.42				
S	1179.0	32680	34489	08.43	08.46				
N	1175.0	34490	36109	08.47	08.50				
S	1180.0	36110	37919	08.51	08.54				
N	1176.0	37920	39549	08.55	08.57				
S	1181.0	39550	41349	08.59	09.02				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320

FLIGHT No 5
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	1177.0	41350	42959	09.03	09.05			6	
S	1182.0	42960	44729	09.06	09.09				
N	1178.0	44730	46369	09.10	09.13				
E	1221.0	46370	48369	09.16	09.19				
W	1231.0	48370	49949	09.20	09.23				
E	1222.0	49950	51949	09.24	09.27				
W	1232.0	51950	53639	09.28	09.31				
E	1223.0	53640	55579	09.32	09.35				
W	1233.0	55580	57219	09.36	09.39				
E	1224.0	57220	59149	09.40	09.43				
W	1234.0	59150	60849	09.44	09.47				
E	1225.0	60850	62819	09.48	09.52				
W	1235.0	62820	64499	09.52	09.55				
E	1226.0	64500	66399	09.56	10.00				
W	1235.0	66400	68079	10.00	10.03				
E	1227.0	68080	70049	10.04	10.08				
W	1237.0	70050	71759	10.09	10.12				
E	1228.0	71760	73659	10.13	10.16				
W	1238.0	73660	75369	10.17	10.20				
E	1229.0	75370	77359	10.21	10.24				
W	1239.0	77360	79029	10.25	10.28				
E	1230.0	79030	80979	10.29	10.32				
W	1240.0	80980	82609	10.33	10.36				
E	1250.0	82610	84539	10.37	10.40				
W	1241.0	84540	86249	10.41	10.44				
E	1251.0	86250	88189	10.45	10.49				
W	1242.0	88190	89919	10.50	10.53				
E	1252.0	89920	91859	10.54	10.57				
W	1243.0	91860	93539	10.58	11.01				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320 FLIGHT No 5 JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
E	1253.0	93540	95449	11.02	11.05			6	
W	1244.0	0	1669	11.07	11.10				
E	1254.0	1670	4069	11.11	11.15				
W	1245.0	4070	5769	11.16	11.19				
E	1255.0	5770	7659	11.20	11.23				
W	1246.0	7660	9389	11.24	11.27				
E	1256.0	9390	11399	11.28	11.31				
W	1247.0	11400	13109	11.32	11.35				
E	1257.0	13110	14979	11.36	11.39			7	
W	1248.0	14980	16739	11.40	11.43				
E	1258.0	16740	18639	11.44	11.47				
W	1249.0	18640	20329	11.48	11.50				
E	1259.0	20330	22179	11.51	11.54				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320

FLIGHT No 6
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
W	1260.0	0	1889	13.45	13.48			7	
E	1270.0	1890	3749	13.48	13.51				
W	1261.0	3750	5439	13.52	13.55				
E	1271.0	5440	7339	13.56	13.59				
W	1262.0	7340	9069	14.00	14.03				
E	1272.0	9070	10959	14.03	14.06				
W	1263.0	10960	12679	14.07	14.10				
E	1273.0	12680	14519	14.11	14.14				
W	1264.0	14520	16219	14.14	14.17				
E	1274.0	16210	18039	14.18	14.21				
W	1265.0	18040	19689	14.22	14.24				
E	1275.0	19690	21559	14.25	14.28				
W	1266.0	21560	23319	14.29	14.32				
E	1276.0	23320	25229	14.33	14.36				
W	1267.0	25230	26939	14.36	14.39				
E	1277.0	26940	28889	14.40	14.43				
W	1268.0	28890	30599	14.44	14.47				
E	1278.0	30600	32439	14.47	14.51				
W	1269.0	32440	34189	14.51	14.54				
E	1279.0	34190	35969	14.55	14.58				
W	1290.0	35970	37699	14.59	15.02				
E	1280.0	37700	39619	15.02	15.06				
W	1291.0	39620	41259	15.06	15.09				
E	1281.0	41260	43099	15.10	15.13				
W	1292.0	43100	44819	15.14	15.17				
E	1282.0	44820	48649	15.17	15.20				
W	1293.0	46650	48359	15.21	15.24				
E	1283.0	48360	50269	15.25	15.28				
W	1294.0	50270	51969	15.28	15.31				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320

FLIGHT No 6
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
E	1284.0	51970	53829	15.32	15.35			7	
W	1295.0	53830	55539	15.36	15.39				
E	1285.0	55540	57329	15.39	15.42				
W	1296.0	57330	59049	15.43	15.46				
E	1286.0	59050	60959	15.47	15.50				
W	1297.0	60960	62769	15.50	15.53				
E	1287.0	62770	64479	15.54	15.57				
W	1298.0	64480	66139	15.58	16.01				
E	1288.0	66140	67909	16.01	16.04				
W	1299.0	67910	69639	16.05	16.08				
E	1289.0	69640	71449	16.08	16.11				
W	1300.0	71450	73229	16.12	16.15				
E	1310.0	73230	76559	16.16	16.22				
W	1301.0	76560	78279	16.24	16.27			8	
E	1311.0	78280	81549	16.28	16.33				
W	1302.0	81550	84699	16.34	16.39				
E	1312.0	84700	88029	16.40	16.45				
W	1303.0	88030	91239	16.46	16.51				
E	1313.0	91240		16.52					
W	1304.0	0	3059	17.00	17.05				
E	1314.0	3060	6389	17.06	17.11				
W	1305.0	6390	9459	17.12	17.17				
E	1315.0	9460	12719	17.18	17.23				
W	1306.0	12720	15789	17.24	17.29				
E	1316.0	15790	19109	17.29	17.35				
W	1307.0	19110	22149	17.36	17.41				
E	1317.0	22150	25429	17.41	17.47				
W	1308.0	25430	28659	17.47	17.53				
E	1318.0	28660	31939	17.53	17.59				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 16/11/94 Julian Day 320 FLIGHT No 6 JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
W	1309.0	31940	35189	17.59	18.05			8	
E	1319.0	35190	38429	18.06	18.11				
SE	0002.0	38430	39069	18.14	18.15				LOW TEST
	0031.0	39070	39999	18.20	18.21				HIGH CAL
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								CS

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 17/11/94 Julian Day 321
FLIGHT No 7
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0							8	CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
	0030.0	0	929	6.49	6.51				HIGH CAL
	0001.0	930	1549	7.10	7.11				LOW TEST
W	1329.0	1550	4769	7.13	7.19				
E	1320.0	4770	7999	7.19	7.25				
W	1330.0	8000	11079	7.25	7.31				
E	1321.0	11080	14309	7.31	7.37				
W	1331.0	14310	17369	7.37	7.43				
E	1322.0	17370	20549	7.43	7.48				
W	1332.0	20550	23599	7.49	7.54				
E	1323.0	23600	26899	7.55	8.01				
W	1333.0	26900	29969	8.01	8.06				
E	1324.0	29970	33199	8.07	8.12				
W	1334.0	33200	36259	8.13	8.18				
E	1325.0	36260	39539	8.19	8.25				
W	1335.0	39540	42709	8.25	8.31				
E	1326.0	42710	45989	8.31	8.37			9	
W	1336.0	45990	49199	8.37	8.43				
E	1327.0	49200	52469	8.43	8.49				
W	1337.0	52470	55559	8.49	8.54				
E	1328.0	55560	58829	8.55	9.00				
W	1347.0	58830	61739	9.02	9.07				
E	1338.0	61740	64959	9.07	9.13				
W	1348.0	64960	67899	9.14	9.18				
E	1339.0	67900	71049	9.19	9.24				
W	1349.0	71050	74059	9.25	9.30				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 17/11/94 Julian Day 321
FLIGHT No 7
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
E	1340.0	74060	77169	9.31	9.36				
W	1350.0	77170	79949	9.37	9.42				
E	1341.0	79950	83009	9.43	9.48				
W	1351.0	83010	95829	9.49	9.54				
E	1342.0	85830		9.55					
W	1352.0	0	2799	10.02	10.06				
E	1343.0	2800	5959	10.07	10.13				
W	1353.0	5960	8919	10.14	10.19				
E	1344.0	8920	11919	10.19	10.24				
W	1354.0	11920	14829	10.24	10.30				
E	1345.0	14830	17839	10.31	10.36				
W	1355.0	17840	20729	10.36	10.41				
E	1346.0	20730	23699	10.42	10.47				
W	1356.0	23700	26556	10.47	10.52				
E	1366.0	26560	29459	10.53	10.58				
W	1357.0	29460	32499	10.59	11.04				
E	1367.0	32500	35449	11.05	11.10				
W	1358.0	35450	38439	11.11	11.16				
E	1368.0	38440	41359	11.17	11.22				
W	1359.0	41360	44209	11.22	11.27				
E	1369.0	44210	47099	11.28	11.32			10	
W	1360.0	47100	49979	11.33	11.38				
E	1370.0	49980	52819	11.39	11.43				
W	1361.0	52820	55619	11.44	11.49				
E	1371.0	55620	58509	11.49	11.54				
W	1362.0	58510	61379	11.55	12.00				
E	1372.0	61380	64209	12.00	12.05				
W	1363.0	64210	67119	12.06	12.11				
E W	1373.0 1352.1	67120 69970	69969 70569	12.11 12.17	12.16 12.18				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 17/11/94 Julian Day 321

FLIGHT No 8
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
W	1364.0	0	2879	13.55	14.00			10	
E	1374.0	2880	5849	14.01	14.06				
W	1365.0	5850	8819	14.07	14.12				
E	1375.0	8820	11849	14.13	14.18				
W	1389.0	11850	14769	14.19	14.24				
E	1376.0	14770	17799	14.25	14.30				
W	1390.0	17800	20779	14.31	14.36				
E	1377.0	20780	23839	14.37	14.42				
W	1391.0	23840	36749	14.43	14.48				
E	1378.0	26750	29729	14.49	14.54				
W	1392.0	29730	32679	14.55	15.00				
E	1379.0	32680	35709	15.01	15.06				
W	1393.0	35710	38579	15.07	15.12				
E	1380.0	38580	41639	15.13	15.18				
W	1394.0	41640	44459	15.19	15.23				
E	1381.0	44460	47419	15.24	15.29				
W	1395.0	47420	50519	15.30	15.36				
E	1382.0	50520	53519	15.36	15.41				
W	1396.0	53519	56409	15.42	15.47				
E	1383.0	56410	59419	15.48	15.53				
W	1397.0	59420	62329	15.54	15.59				
E	1384.0	62330	65369	16.00	16.05				
W	1398.0	65370	68359	16.06	16.11			11	
E	1385.0	68360	71479	16.12	16.18				
W	1399.0	71480	74399	16.18	16.23				
E	1386.0	74400	77449	16.24	16.29				
W	1400.0	77450	80289	16.30	16.35				
E	1387.0	80290	83329	16.36	16.41				
W	1401.0	83330	86219	16.42	16.47				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 17/11/94 Julian Day 321

FLIGHT No 8
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
E	1388.0	86220	89289	16.48	16.53			11	
W	1402.0	89290	91159	16.55	16.59				
E	1411.0	91160	93139	16.59	17.03				
W	1403.0	93140	94979	17.04	17.07				
E	1412.0	94980	96949	17.07	17.11				
W	1404.0	96950	98779	17.12	17.15				
E	1413.0	0	1899	17.16	17.20				
W	1405.0	1900	3719	17.20	17.23				
E	1414.0	3720	5649	17.24	17.27				
W	1406.0	5650	7389	17.29	17.32				
E	1415.0	7390	9269	17.35	17.38				
W	1407.0	9270	9319	17.39	17.39				
W	1407.1	9320	11079	17.51	17.55				
E	1416.0	11080	12969	17.45	17.48				
SE	0002.0	12970	13609	17.51	17.52				TEST LINE
E	0031.0	13610		18.04					HIGH LEVEL
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								C

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS
DATE 18/11/94 Julian Day 322
FLIGHT No 9
JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
	0010.0							11	CS
	0011.0								U
	0012.0								TH
	0013.0								BACKGROUND
W	0030.0	0	1589	07.10	07.13				HIGH LEVEL
SW	0001.0	1590	2139	07.22	07.23				TEST LINE
W	1408.0	2140	3809	07.25	07.28				
E	1417.0	3810	5059	07.29	07.33				
W	1409.0	5060	7579	07.33	07.36				
E	1418.0	7580	9569	07.37	07.40				
W	1410.0	9570	11269	07.41	07.44				
E	1419.0	11270	13239	07.42	07.48				
W	1428.0	13240	14959	07.49	07.52				
E	1420.0	14960	16929	07.53	07.56				
W	1429.0	16930	18649	07.57	08.00				
E	1421.0	18650	20599	08.00	08.04				
W	1430.0	20600	22409	08.04	08.07				
E	1422.0	22410	24339	08.08	08.11				
W	1431.0	24340	26069	08.12	08.15				
E	1423.0	26070	28059	08.16	08.19				
W	1432.0	28060	29779	08.20	08.23				
E	1424.0	29780	31699	08.23	08.27				
W	1433.0	31700	33409	08.27	08.30				
E	1425.0	33410	35349	08.31	08.34			12	
W	1434.0	35350	37109	08.35	08.38				
E	1426.0	37110	39049	08.39	08.42				
W	1435.0	39050	40759	08.43	08.46				
E	1427.0	40760	42649	08.46	08.49				
W	1436.0	42650	44389	08.50	08.53				

OPERATORS FLIGHT REPORT

KEVRON GEOPHYSICS

DATE 18/11/94 Julian Day 322 FLIGHT No 9 JOB No 1270

AREA DEEP WELL	MAGNETOMETER	SPECTROMETER
AIRCRAFT WAM PILOT WORNES OPERATOR GRIBBLE AIRPORT BROKEN HILL TAKE OFF LAND	Sample rate 0.1 Mag F.S.D Fine 100 Mag F.S.D Coarse 1000	Sample Rate 1.0 Format 256 CHANNEL K40 500 B1214 500 T1208 500 Tot Count 5000
GPS Navigation Method REAL TIME	Survey Alt 70 Radar Baro	

Hdg	Line	Fiducial		Time		Line Limits		Video No.	Comments
		Start	End	Start	End	Start	End		
N	0060.0	44390	44679	08.57	08.58			12	
S	0061.0	44680	44959	09.00	09.01				
W	0062.0	44960	45219	09.03	09.03				
E	0063.0	45220	45539	09.05	09.06				
SE	0002.0	45540	46199	09.09	09.10				TEST LINE
E	0031.0	46200		09.18					HIGH LEVEL
	0014.0								BACKGROUND
	0015.0								TH
	0016.0								U
	0017.0								CS

CRA EXPLORATION PTY LTD

APPENDIX 4

Radiometric Calibrations

DEEP WELL

PREFLIGHT & POSTFLIGHT CALIBRATIONS JOB 1270
DEEP WELL

PREFLIGHT DATE: 12/11 94 FLIGHT: 1					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	320	40	150	5600	330	40	160	5700
U	270	320	160	7000	270	320	160	7100
TH	270	50	440	7600	270	50	440	7700
BKGRD	330	40	170	3900	340	40	170	4000

PREFLIGHT DATE: 14/11/94 FLIGHT: 2					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	320	35	160	5600	320	35	160	5600
U	270	320	160	7000	270	320	160	7000
TH	270	50	440	7500	270	50	450	7600
BKGRD	340	35	170	3900	350	35	170	4000

PREFLIGHT DATE: 15/11/94 FLIGHT:3&4					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	330	45	160	5600	340	40	170	5600
U	270	300	170	7000	270	300	170	7000
TH	270	40	440	7600	270	40	430	7600
BKGRD	340	40	170	4000	340	40	170	4000

PREFLIGHT DATE: 16/11/94 FLIGHT: 5&6					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	330	40	160	5700	5700	330	40	160
U	270	320	160	7100	270	330	160	6900
TH	270	50	440	7700	270	45	450	7600
BKGRD	340	40	170	4000	340	40	175	4000

PREFLIGHT & POSTFLIGHT CALIBRATIONS JOB 1270
DEEP WELL

PREFLIGHT DATE: 17/11/94 FLIGHT:7&8					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	320	40	155	5700	320	40	160	5600
U	270	300	160	7000	270	310	160	7000
TH	280	50	450	7650	270	50	450	7600
BKGRD	330	40	170	4000	330	40	170	40000

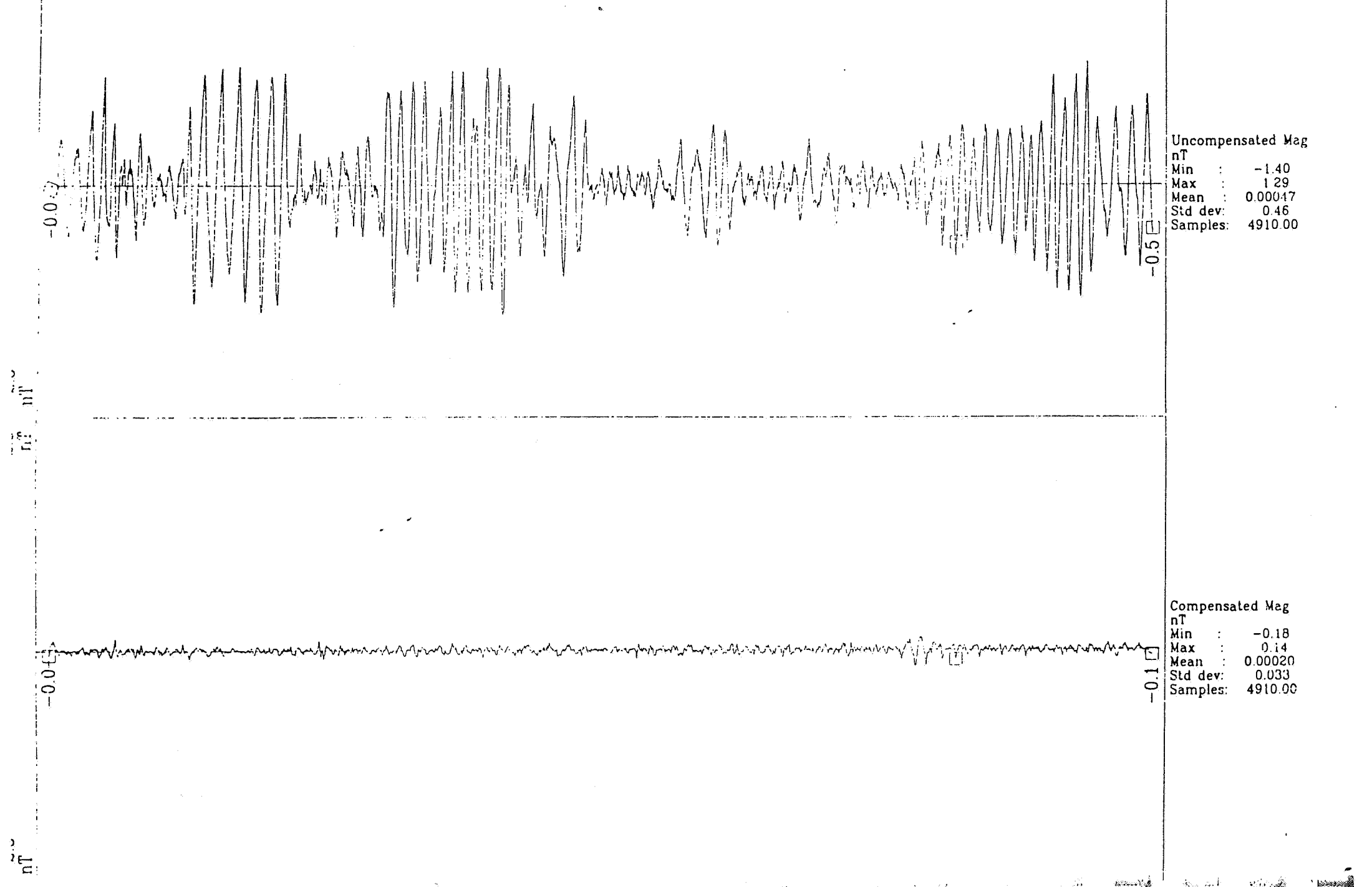
PREFLIGHT DATE: 18/11/94 FLIGHT: 9					POSTFLIGHT			
SMPLE	K	U	TH	T/C	K	U	TH	T/C
CS	320	40	150	5700	320	40	160	5700
U	270	320	150	7000	270	320	160	7000
TH	270	50	440	7600	270	50	440	7600
BKGRD	330	40	170	4000	330	40	170	4000

CRA EXPLORATION PTY LTD

APPENDIX 5

Heading\Compensation Calibrations

DEEP WELL


-0.0
-0.5
nT
Uncompensated Mag
nT
Min : -1.40
Max : 1.29
Mean : 0.00047
Std dev: 0.46
Samples: 4910.00
-0.0
-0.1
Compensated Mag
nT
Min : -0.18
Max : 0.14
Mean : 0.00020
Std dev: 0.033
Samples: 4910.00
nT

MAGNETOMETER HEADING CHECK

The accepted method is the "Figure of Merit" (FOM) which is the absolute sum after compensation of the magnetometer signal for pitches, rolls and yaws on the four (magnetic) cardinal headings. "Standard" FOM manoeuvres are +/- 5 degrees for pitches and yaws, and +/- 10 degrees for rolls.

To evaluate wide-band compensation, the standard deviation (σ) of the residual magnetometer signal after compensation is measured. To assess the actual effectiveness of compensation, the ratio of σ before and after compensation termed the "Improvement Ratio" (IR) is calculated. Turns between headings are done at 30 degrees to 35 degrees angle of bank.

The σ criterion has an advantage over the FOM in that it is representative of the magnetic conditions over the entire normal manoeuvre envelope of the aircraft for the entire frequency band of interest, which includes DC. Two additional advantages are that the FOM must always be evaluated by hand from an analogue chart, whereas σ is automatically available in a digital solution, and that σ is much less dependent upon the accuracy of the short period manoeuvres, whereas the FOM is directly proportional to manoeuvre amplitudes.

The standard deviation of the uncompensated Magnetometer was	0.430
After compensation	0.033
Improvement Ratio	13.030

Kevron Geophysics Deem this to be an effective

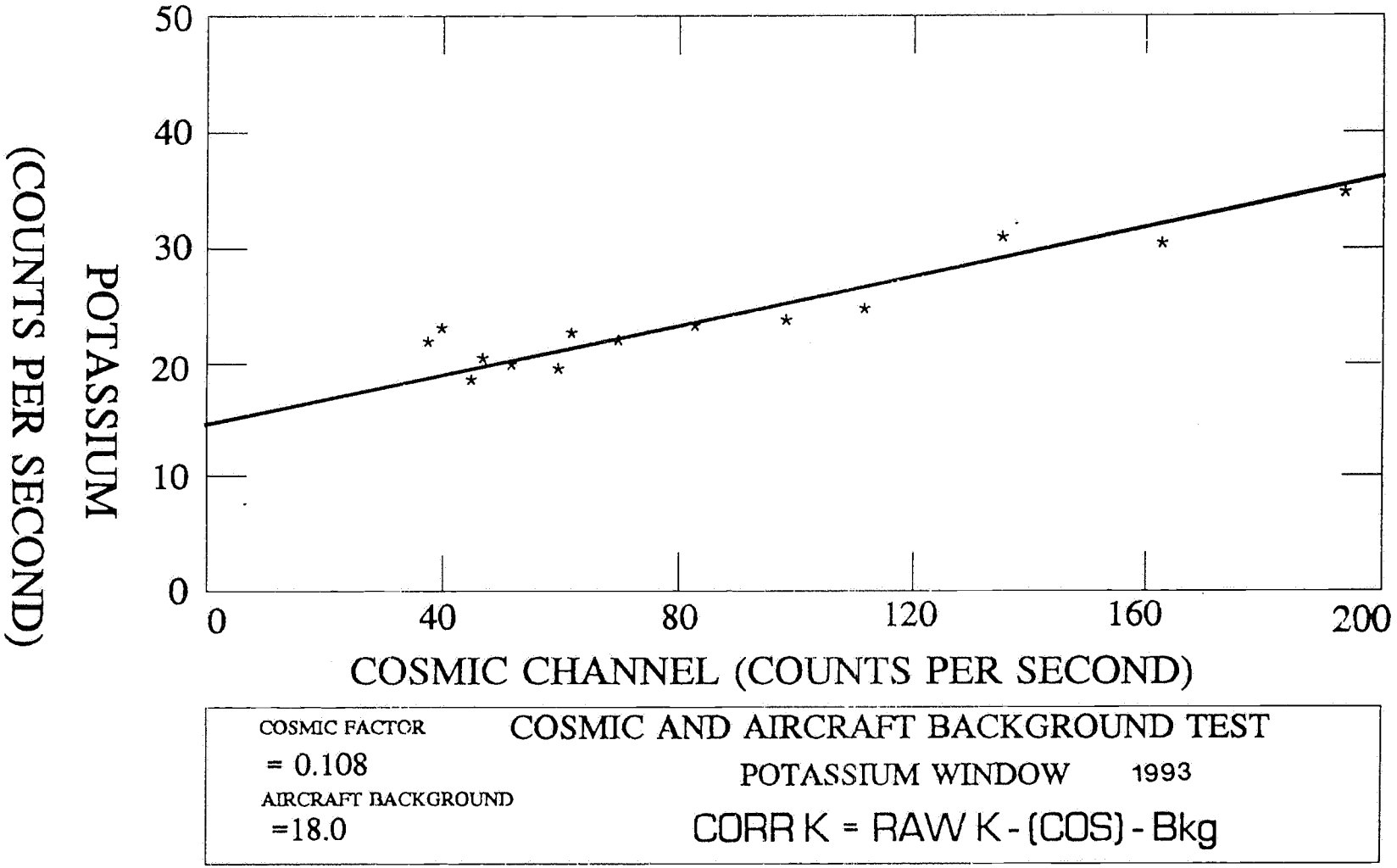
Compensation

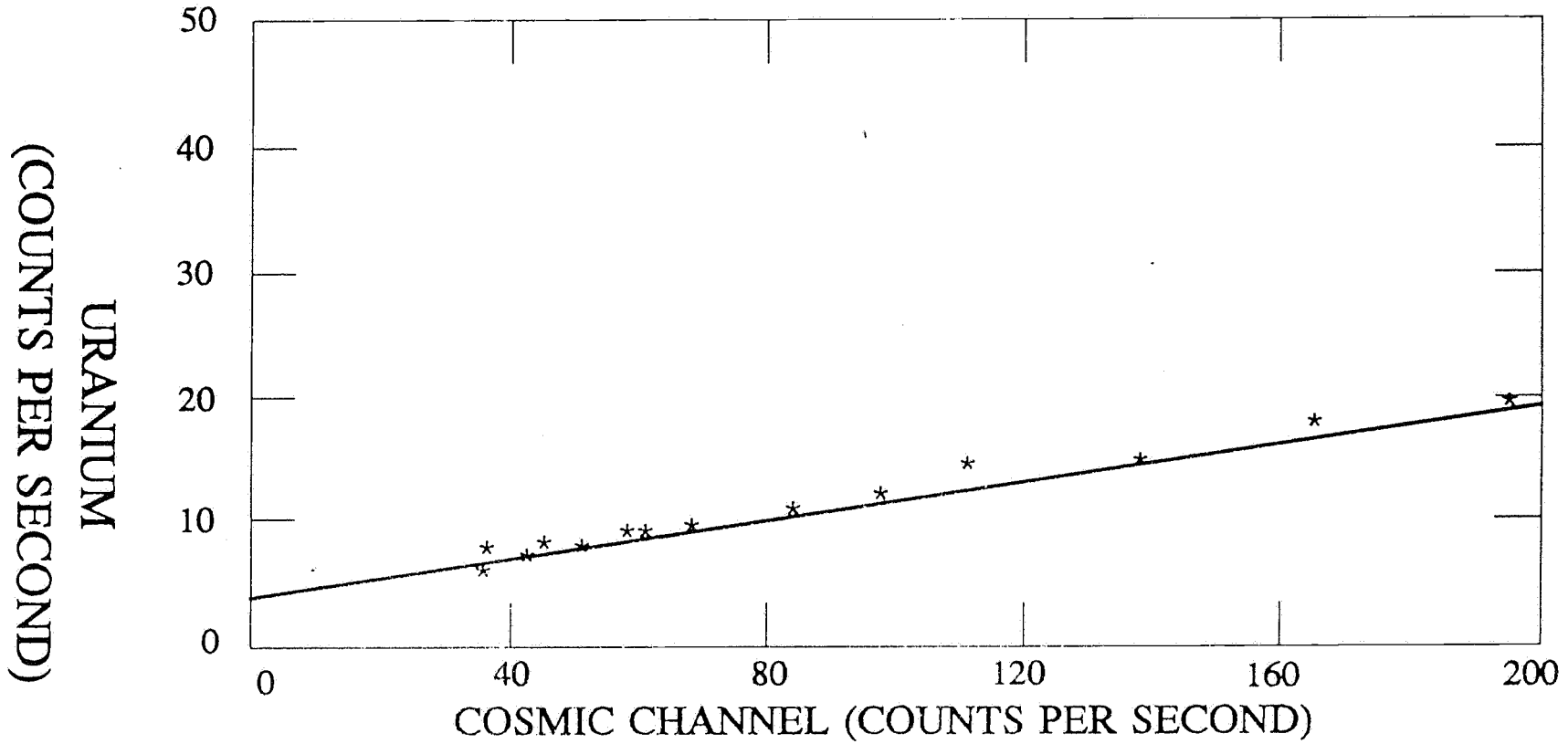
CRA EXPLORATION PTY LTD

APPENDIX 6

Radiometric Background Plots

DEEP WELL


POTASSIUM (COUNTS PER SECOND)
50
40
30
20
10
0
0
40
80
120
160
200
COSMIC CHANNEL (COUNTS PER SECOND)
COSMIC FACTOR
= 0.108
AIRCRAFT BACKGROUND
=18.0
COSMIC AND AIRCRAFT BACKGROUND TEST
POTASSIUM WINDOW 1993
CORR K = RAW K - (COS) - Bkg

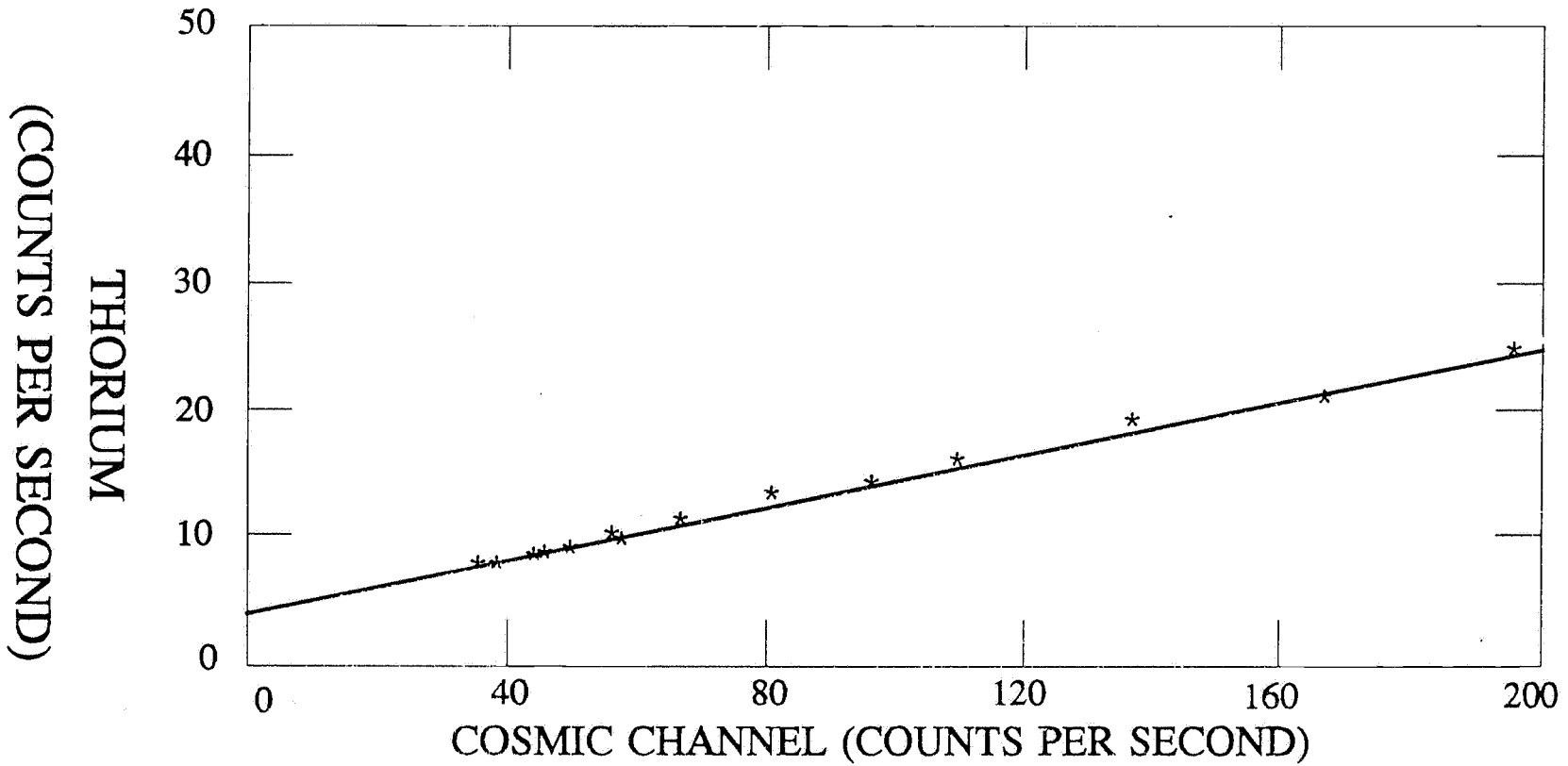


COSMIC FACTOR
= 0.092
AIRCRAFT BACKGROUND
= 9.0

COSMIC AND AIRCRAFT BACKGROUND TEST

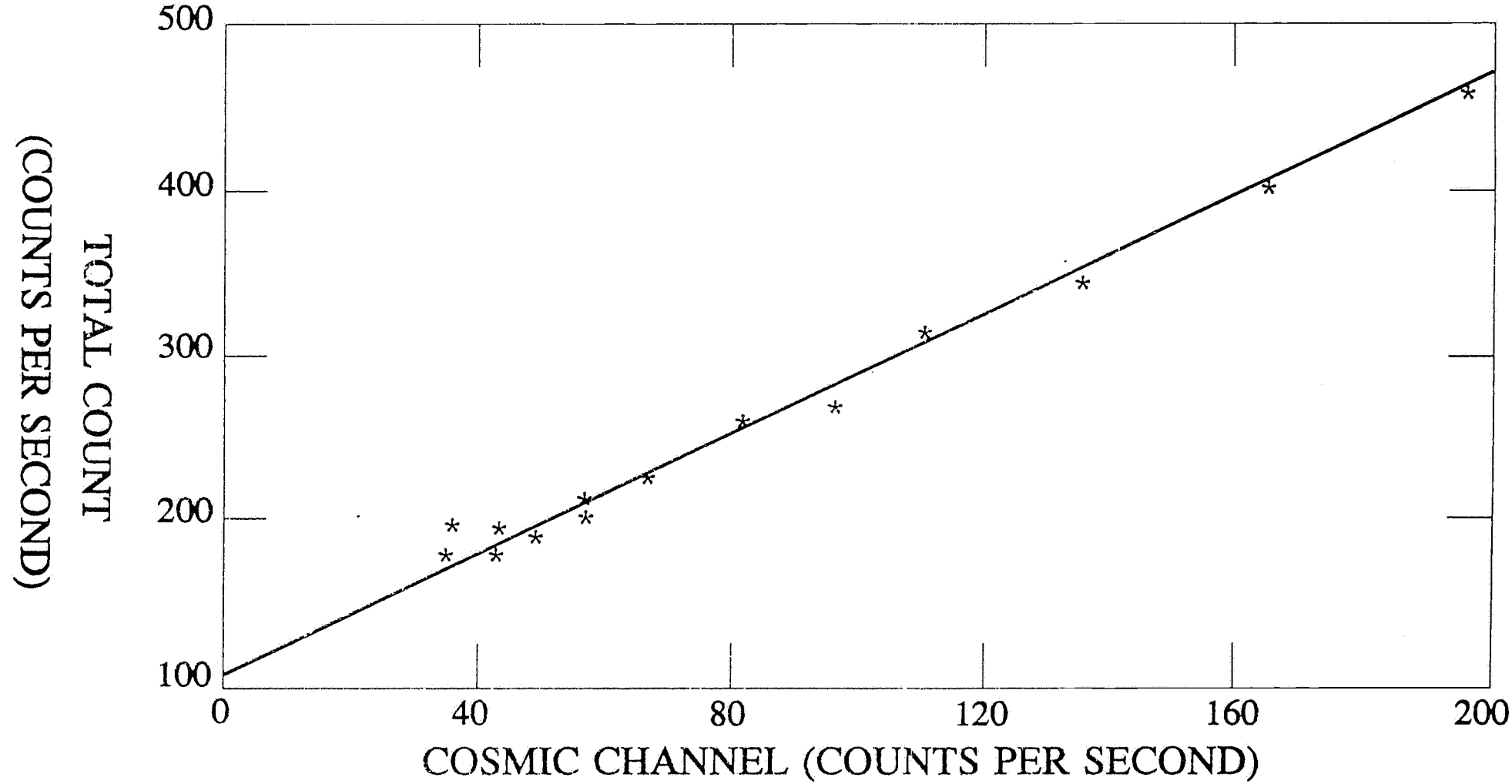
URANIUM WINDOW 1990

CORR U = RAW U - (COS) - Bkg



COSMIC FACTOR
= 0.112
AIRCRAFT BACKGROUND
= 5.0

COSMIC AND AIRCRAFT BACKGROUND TEST
THORIUM WINDOW 1993
CORR Th = RAW Th - (COS) - Bkg



COSMIC FACTOR
= 1.918
AIRCRAFT BACKGROUND
= 199.0

COSMIC AND AIRCRAFT BACKGROUND TEST

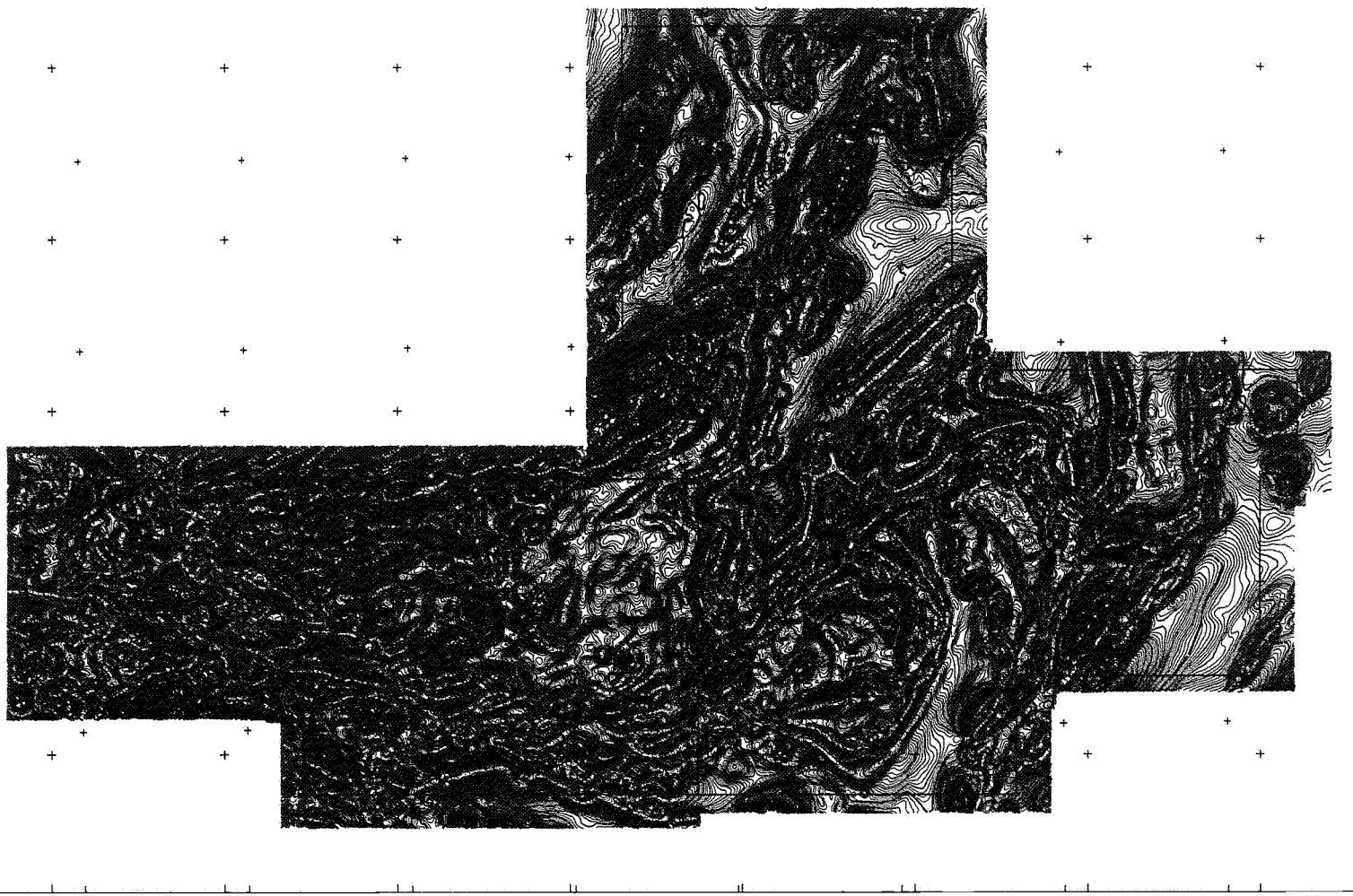
TOTAL COUNT WINDOW 1993

CORR TC = RAW TC - (COS) - Bkg

CRA EXPLORATION PTY LTD



DEEP WELL



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-WAN
Magnetometer	Scintrex VIW 2301-HS Caesium Vapour
Magnetometer Sensitivity	0.001 nT
Magnetometer Compensation	RMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 2.2 metres)
Data Acquisition	RMS DAU-4
Data Recording	DC600 data cartridges
Spectrometer	Geometrics GR800
Crystal Size	33.6lt downward, 4.2lt upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VGS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000—180 degrees
	090—270 degrees
Flight Line Separation	150 metres
Tie Line Direction	090—270 degrees
	000—180 degrees
Tie Line Separation	1900 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics Job number	1270
Survey Flown	November 1994

TOTAL MAGNETIC INTENSITY CONTOURS

Diurnal variations removed
IGRF(1990) updated to 1994.9 removed
Average survey base station value and a
constant of 0000 nT added to datum

Grid mesh 25 x 25 metres

Contour Interval 5, 25, 100, 500 nT

SCALE 1:64,000

Kilometres

MAP GRID ZONE 54

SPHEROID Australian National
PROJECTION Universal Transverse Mercator

Kevron Geophysics

N

True North

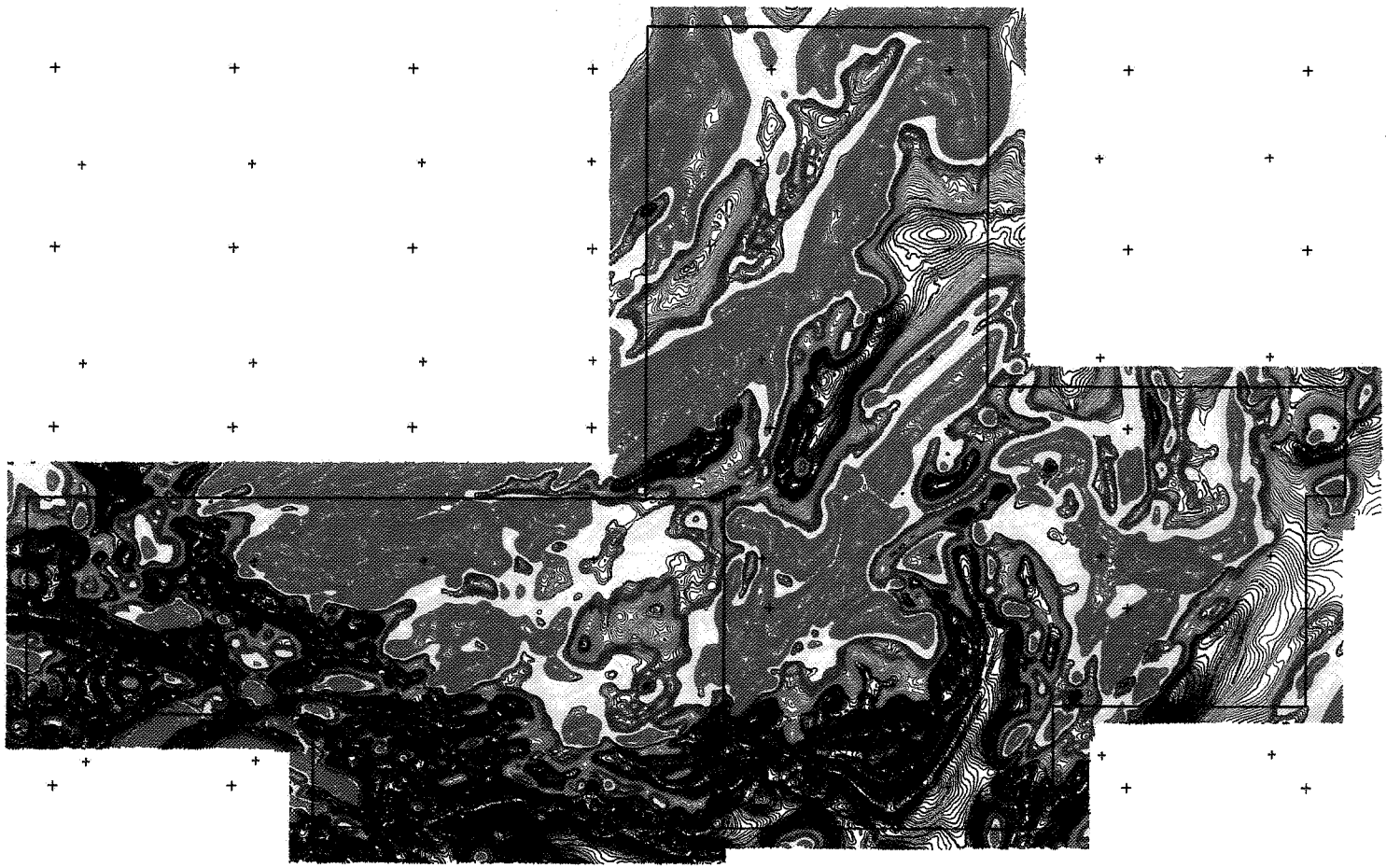
CRA EXPLORATION Pty Ltd

DEEP WELL

Airborne Geophysical Survey

TMI Contours

COMPILED : Kevron Geophysics Pty. Ltd.	REPORT :
DATE : Nov 1994	PLAN NO.
SCALE 1:50,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 2000 VH-RAH
Magnetometer	Scintrex VMF 2521-75 Cesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	2000 ARC upwards in pre-flight
Magnetometer Sample Interval	0.1 seconds (approx 7.5 metres)
Tail Sensitive	500 SAD-3
Data Recording	DC200 data cartridge
Spectrometer	Scintrex GRS-2
Crystal Size	33.6L downward, 4.2L upward survey
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VCR Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight line direction	000-180 degrees 090-270 degrees
Flight line Separation	100 metres
Tie line direction	090-270 degrees 000-180 degrees
Tie line Separation	1000 metres
Terrain Clearance	75 metres (MTC)
Kevron Geophysics job number	1270
Survey flown	November 1994

TOTAL MAGNETIC INTENSITY CONTOURS

Diurnal variations removed
IGRF(1990) updated to 1994.0 removed
Average survey base station value and a
constant of 5900 nT added to datum

Grid mesh 50 X 50 metres

Contour Interval 5, 10, 100, 500 nT

COLOUR LEGEND

5908.500000 - 6000.000000	
6001.000000 - 6091.500000	
6092.000000 - 6176.000000	
6177.000000 - 6183.000000	
6183.500000 - 6188.750000	
6189.000000 - 6191.000000	

Kevron Geophysics

Projection
MAP GRID ZONE 54

DATUM : Geodetic Datum
SPHEROID : National American Spheroid

GRID

Map North

CRA EXPLORATION Pty Ltd	
DEEP WELL	
Airborne Geophysical Survey	
TMI Contours	
COMPILED : Kevron Geophysics Pty. Ltd.	REPORT :
DATE : Nov 1994	PLAN NO.
SCALE 1:40,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-VAN
Magnetometer	Barringer VSP ESP1-MAG Caesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	MAG AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 7.0 metres)
Data Acquisition	RMS DAS-5
Data Recording	DC300 data cartridges
Spectrometer	Geometrics GR800
Crystal Size	33.6L downward, 4.2L upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VHS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000—180 degrees
	090—270 degrees
Flight Line Separation	100 metres
Tie line Direction	090—270 degrees
	000—180 degrees
Tie Line Separation	1800 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics Job number	1970
Survey flown	November 1994

ANALYTIC FUNCTION PROFILES

Diurnal variations removed
IGRF(1990) updated to 1994.5 removed
Average survey base station value added to datum

Datum Base Value 0 nT
Vertical Scale 5 nT /m/cm

SCALE 1:64,000

Kilometres

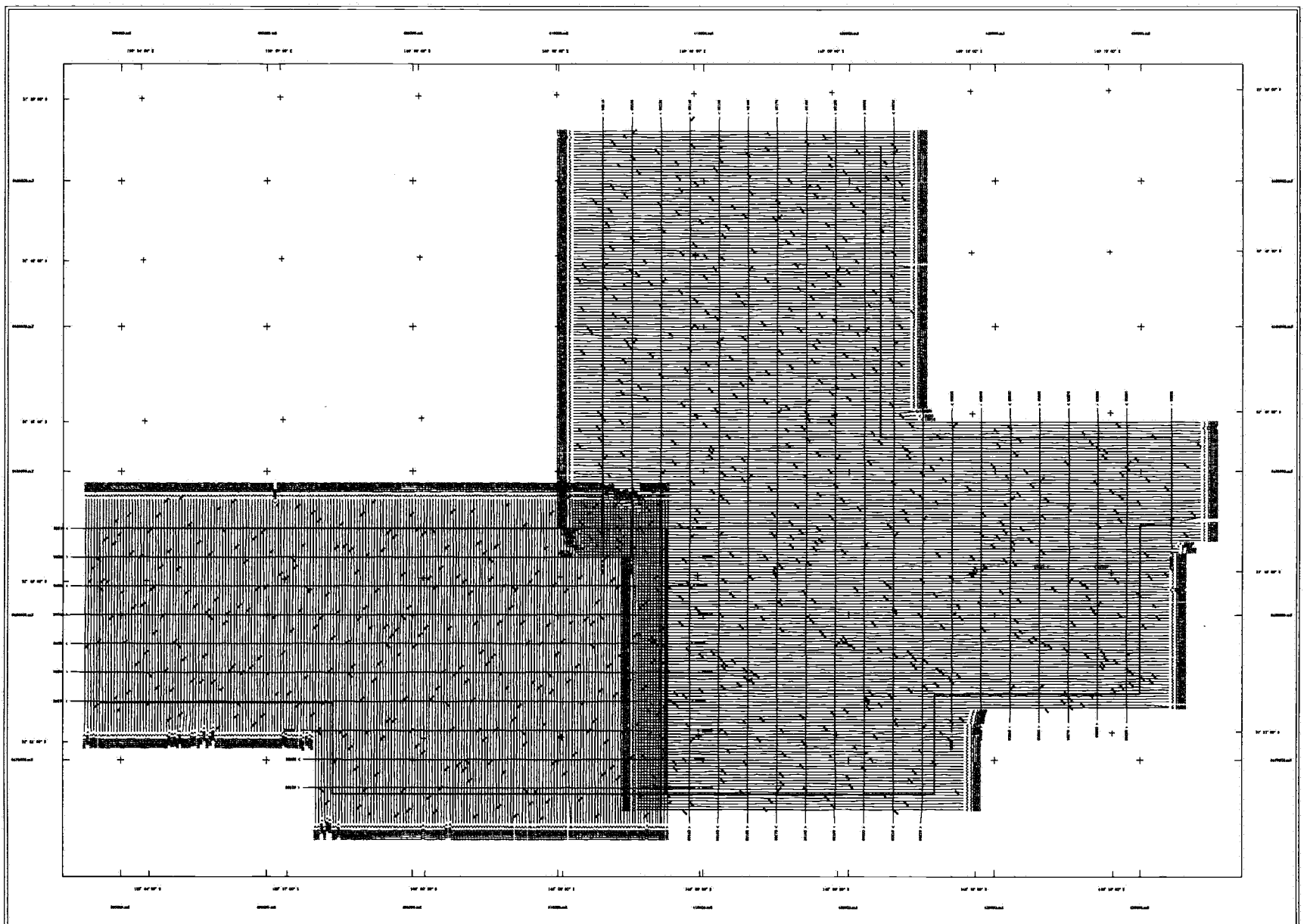
SPHEROID Australian National
PROJECTION Universal Transverse Mercator

Kevron Geophysics

GRID NORTH

True North

CRA EXPLORATION Pty Ltd	
DEEP WELL	
Airborne Geophysical Survey	
Analytic Function Profiles	
COMPILED : Kevron Geophysics Pty. Ltd.	REPORT :
DATE : Nov 1994	PLAN NO.
SCALE 1:50,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-RAM
Magnetometer	Sundstrand 702 2321-302 Centaur Helicopter
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	EMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 7.2 metres)
Data Acquisition	EMS DAS-5
Data Recording	DC600 data cartridge
Spectrometer	Geometrics GR820
Crystal Size	33.6lt downward, 4.2lt upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VHS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000–180 degrees
	090–270 degrees
Flight Line Separation	100 metres
Tie Line Direction	090–270 degrees
	000–180 degrees
Tie Line Separation	1000 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics job number	1270
Survey flown	November 1994

SCALE 1:50,000

0 1 2 3 4

Kilometres

MAP GRID ZONE 54

SPHEROID Australian National

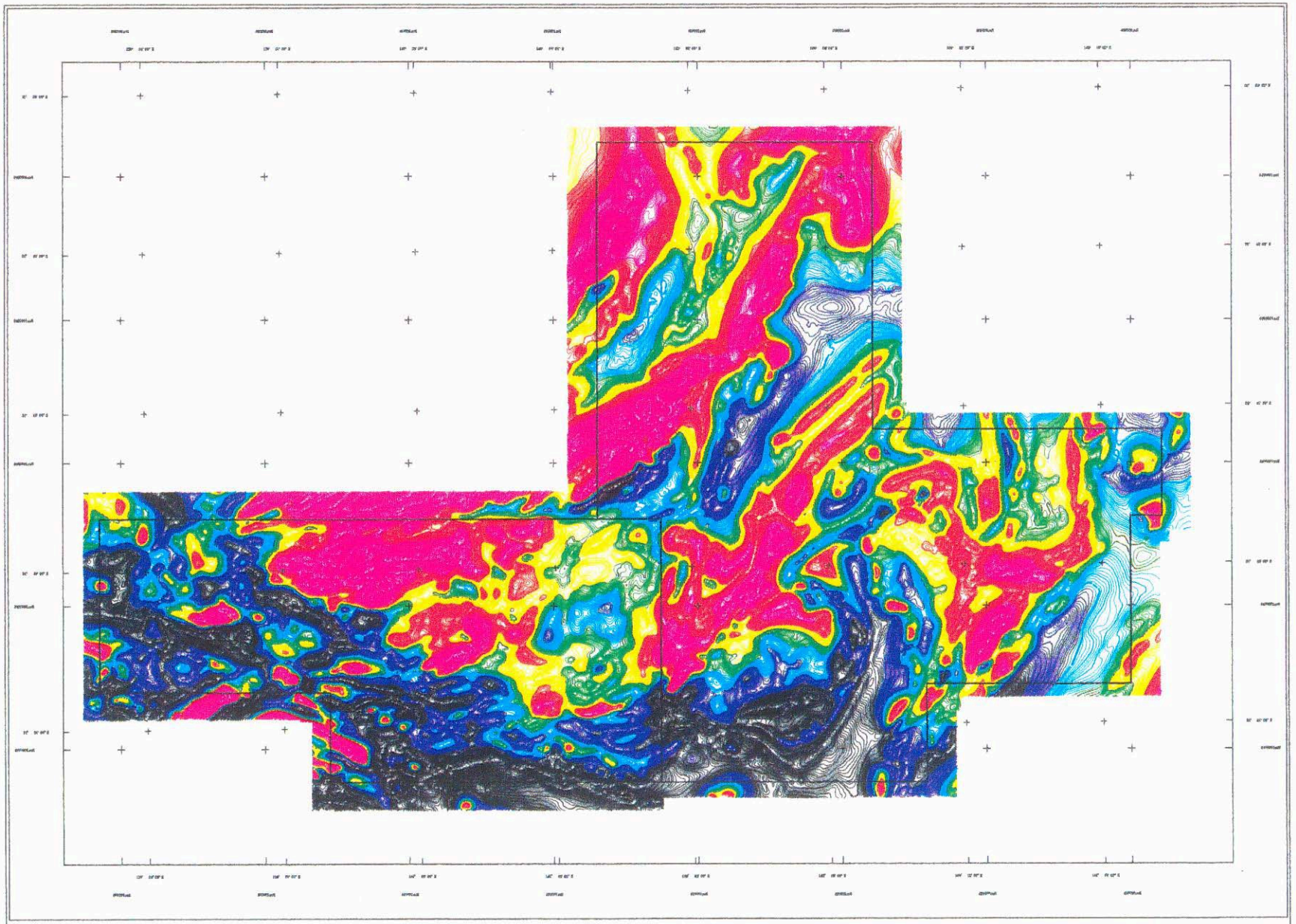
PROJECTION Universal Transverse Mercator

Kevron Geophysics

N

True North

CRA EXPLORATION Pty Ltd	
DEEP WELL	
Airborne Geophysical Survey	
Flight Path	
COMPILED : Kevron Geophysics Pty. Ltd.	REPORT :
DATE : Nov 1994	PLAN NO.
SCALE 1:50,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft
Magnetometer
Magnetometer Resolution
Magnetometer Compensation
Magnetometer Sample Interval
Data Acquisition
Data Recording
Spectrometer
Crystal Size
Spectrometer Sample Interval
Flight Path Record
GPS Navigation System

Bell 412 Helicopter VH-NAN
Scintrex VW 2201-25 Cesium Vapour
0.001 nT
EMS AASC operating in real time
0.1 seconds (approx 7.0 metres)
EMS RAD-3
DCS50 data cartridges
Gamma-Ray 256CIS
33.6% downward, 4.2% upward arrays
1.0 Uranium (approx 70 metres)
WGS Global Video System
Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction

Flight Line Separation
The Dove Structure

Tie Line Separation
Terrain Clearance

Survey Contractor Job number
Survey Flown

090-180 degrees
000-270 degrees
100 metres
090-270 degrees
000-180 degrees
4000 metres
70 metres (MTC)

1670
November 1994

TOTAL MAGNETIC INTENSITY CONTOURS

Diurnal variations removed
IGRF1990 updated to 1994.0 removed
Average survey base station value and a
nominal of 58000 nT added to datum

Data datum: MG 2 25 datum

Contour interval: 5, 25, 100, 500 nT

COLOUR LEGEND

Kevron Geophysics

Transverse Mercator
Zone 52
Central Meridian 129°00'00" E

GRID

CRA EXPLORATION Pty Ltd

DEEP WELL

Airborne Geophysical Survey

TMI Contours

CONTRACTOR : Kevron Geophysics Pty. Ltd.	REPORT :
DATE : Nov 1994	PLAN NO.
SCALE 1:50,000	

CRA EXPLORATION PTY LTD

APPENDIX 8
Data Tape Formats

DEEP WELL

LOCATED DATA TAPE FORMAT

LINE NUMBER	a8
DATE	a8
FIDUCIAL	f10.0
EASTING	f11.1
NORTHING	f11.1
RAW MAGNETICS	f9.2
DIURNAL	f9.2
LEVELLED MAGNETICS	f9.2
RADAR ALTIMITER	f6.1
BARO ALTIMITER	f6.1
RAW TOTAL COUNT	f6.0
RAW POTASSIUM	f5.0
RAW URANIUM	f5.0
RAW THORIUM	f5.0
CORRECTED TOTAL COUNT	f6.0
CORRECTED POTASSIUM	f5.0
CORRECTED URANIUM	f5.0
CORRECTED THORIUM	f5.0
COSMIC	f5.0
LOCAL TIME	f5.0

Logical record length of 144 bytes

APPENDIX II

Regional Lag Samples

SAMPLENO	EAST	NORTH	ZONE	DPO	FRACTION	DESCRIPTION	RECOVERY	%LAG	Ag	As	Au	Ba	Bi	Ca	Cd
3339705	421000	6495300	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	5	0.2	131	2.0	1070	3.2	1410	0.3
3339706	418950	6495000	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains. Sample from ants nest.	VG	3	0.2	93	0.5	920	3.2	1880	0.3
3339707	416700	6495100	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains.	VG	3	0.1	82	6.0	500	3.0	2160	0.2
3339708	415250	6495100	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains.	G	7	0.2	88	0.5	854	4.2	1280	0.4
3339709	413200	6495150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	3	0.2	78	0.5	560	2.6	1740	0.3
3339710	412000	6493150	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains.	G	10	0.2	101	0.5	533	3.5	1290	0.4
3339711	413850	6493100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	5	0.2	105	0.5	1170	3.5	1890	0.3
3339712	416000	6493050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	3	0.2	83	0.0	527	2.8	2110	0.3
3339713	418100	6493200	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	6	0.2	87	0.5	633	3.0	1530	0.3
3339714	420000	6492950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains. Sample from ants nest.	M-G	5	0.2	104	0.5	2180	3.4	2510	0.3
3339715	421000	6491200	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	P	10	0.2	102	1.0	1250	3.4	1450	0.4
3339716	418850	6491100	54	54359	-7mm+2.5mm	Sandy silty plains with scattered quartz pebbles.	G	20	0.2	137	0.5	1460	3.2	1370	0.3
3339717	416950	6491000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	7	0.2	94	0.5	676	2.8	1340	0.3
3339718	415150	6491050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	10	0.2	65	0.5	660	3.2	2400	0.3
3339719	413100	6491200	54	54359	-7mm+2.5mm	Sandy silty plains with scattered quartz pebbles.	M	5	0.5	102	0.5	1180	5.3	2840	0.7
3339720	411850	6489000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	3	0.2	98	0.5	581	3.2	1170	0.2
3339721	413900	6489100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	56	48.0	754	2.1	7020	0.4
3339722	416050	6489000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	66	1.0	1030	2.2	1840	0.3
3339723	417850	6489150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	P	5	0.2	107	1.0	645	3.5	1120	0.3
3339724	420150	6488950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	5	0.2	94	0.5	898	3.1	1450	0.2
3339725	421050	6486950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	25	0.1	88	0.5	875	3.2	1340	0.2
3339726	418950	6487100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	3	0.1	85	0.5	708	3.0	1860	0.3
3339727	416750	6486900	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	3	0.2	84	0.5	607	3.2	1440	0.3
3339728	414950	6486850	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-G	3	0.2	99	3.0	949	3.2	2980	0.4
3339729	412850	6487050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-P	5	0.2	102	0.5	772	2.5	1390	0.4
3339730	411900	6485000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	5	0.2	45	1.0	1120	3.2	6580	0.4
3339731	413900	6485050	54	54359	-7mm+2.5mm	Claypan in sandy plains with abundant quartz gravel.	M-G	2	0.1	72	0.5	761	3.6	3080	0.3
3339732	416050	6485150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	5	0.2	56	0.5	789	2.3	6210	0.5
3339733	417900	6485000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-G	5	0.1	91	0.5	815	2.9	1670	0.3
3339734	419900	6485000	54	54359	-7mm+2.5mm	Claypan in silty plains.	M	5	0.2	98	0.5	783	3.3	2220	0.3
3339735	421050	6483050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	35	0.1	68	14.0	1410	3.9	1550	0.3
3339736	419100	6483000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	15	0.2	94	0.5	1030	3.8	1700	0.2
3339737	416950	6483100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	5	0.1	85	2.0	771	2.6	1330	0.3
3339738	414850	6482850	54	54359	-7mm+2.5mm	Claypan in sandy plains.	M	1	0.1	74	1.0	561	2.5	2370	0.2
3339739	412400	6483100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	42	0.0	775	1.8	8440	0.6
3339740	411000	6482850	54	54359	-7mm+2.5mm	Claypan in sandy plains.	M	3	0.2	62	0.5	1290	3.5	3620	0.4
3339741	409050	6483100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	2	0.2	61	0.0	1200	2.1	3690	0.4
3339742	407050	6483000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	1	0.2	53	0.0	1460	2.2	5940	0.4
3339743	404950	6482850	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	10	0.2	53	0.5	1940	2.0	2320	0.3
3339744	402950	6483000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	1	0.2	50	0.5	2290	2.6	3290	0.4
3339745	420150	6480750	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	35	0.3	79	0.5	702	3.3	1070	0.4
3339746	418100	6481050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	P-M	2	0.1	65	0.5	588	3.1	3040	0.2

LAB: ANALABS Perth

SAMPLENO	EAST	NORTH	ZONE	DPO	FRACTION	DESCRIPTION	RECOVERY	%LAG	Ag	As	Au	Ba	Bi	Ca	Cd
3339747	416050	6481000	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains.	G	5	0.2	89	0.5	818	3.9	1590	0.3
3339748	414350	6481150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains. Sample from ants nest.	G	5	0.2	82	0.5	1030	3.3	2500	0.4
3339749	411900	6481050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	15	0.6	47	1.0	976	3.8	3000	0.7
3339750	409700	6480750	54	54359	-7mm+2.5mm	Claypan in sandy silty plains. Sample from ants nest.	VG	2	0.2	63	0.5	1820	2.3	4470	0.4
3339751	408050	6481000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	2	0.2	51	0.5	2410	2.3	2500	0.4
3339752	406100	6481000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	3	0.2	51	0.5	2140	1.7	2920	0.4
3339753	404100	6481000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains. Sample from ants nest.	G	2	0.1	52	0.5	2120	1.9	1670	0.3
3339754	402150	6481150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	3	0.2	61	1.0	1590	2.4	2000	0.4
3339755	400150	6481000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-G	1	0.2	51	0.0	2950	1.8	2650	0.5
3339756	397850	6481050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	3	0.2	60	2.0	1750	1.7	3380	0.3
3339757	395850	6481000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	69	1.0	1690	2.1	2750	0.4
3339758	395100	6482850	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	50	33.0	2110	1.5	2460	0.3
3339759	397000	6483050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-P	<1	0.3	44	0.0	786	1.5	1520	0.5
3339760	398900	6482950	54	54359	-7mm+2.5mm	Claypan in sandy gravely plains.	G	2	0.2	80	0.5	1360	1.7	2600	0.5
3339761	400900	6482950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	3	0.2	41	2.0	1240	2.1	2050	0.5
3339762	395500	6479250	54	54359	-7mm+2.5mm	Claypan in sandy silty plains with scattered quartz pebbles.	VG	5	0.2	56	0.5	1050	1.7	5200	0.4
3339763	397150	6479050	54	54359	-7mm+2.5mm	Claypan in sandy silty plains with scattered quartz pebbles.	G	2	0.2	44	1.0	2520	1.5	1950	0.4
3339764	399000	6479000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	1	0.2	57	0.0	2260	1.5	4150	0.4
3339765	400950	6478950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	2	0.2	48	0.0	958	1.9	4540	0.4
3339766	403050	6479150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	10	0.1	47	0.5	2020	1.7	1380	0.4
3339767	405050	6479000	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	VG	30	0.2	51	0.5	2450	1.7	1010	0.4
3339768	406900	6479000	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	VG	30	0.2	57	0.5	1830	1.9	2730	0.4
3339769	408950	6478950	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	VG	7	0.1	56	0.5	2210	2.3	2080	0.3
3339770	411050	6478950	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	VG	5	0.2	58	0.5	1350	1.9	4460	0.4
3339771	412800	6478800	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	VG	5	0.3	61	0.5	1680	4.0	9670	0.9
3339772	415200	6478750	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	G	3	0.1	81	0.5	713	2.7	2300	0.3
3339773	416950	6479000	54	54359	-7mm+2.5mm	Claypan in sandy plains.	G	15	0.1	116	0.5	741	3.4	1270	0.3
3339774	419000	6478750	54	54359	-7mm+2.5mm	Claypan in sandy plains.	VG	35	0.2	103	0.5	709	3.3	2010	0.4
3339775	421100	6479000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	80	0.2	99	0.5	992	3.0	998	0.2
3339776	420100	6476850	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	65	0.1	113	0.5	1030	3.9	1030	0.4
3339777	421950	6477100	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	10	0.2	130	0.5	1500	3.0	1040	0.3
3339778	418050	6476950	54	54359	-7mm+2.5mm	Claypan in sandy silty plains. Sample from ants nest.	M-P	3	0.2	88	0.5	1500	3.0	3100	0.3
3339779	416000	6476900	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M	5	0.2	83	0.5	692	2.6	3210	0.4
3339780	414100	6476800	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	M-G	2	0.3	58	2.0	1200	3.7	11220	0.6
3339781	411950	6476950	54	54359	-7mm+2.5mm	Clayey silty plains with gravel patches.	VG	5	0.2	54	0.5	2270	2.8	2510	0.4
3339782	410100	6476850	54	54359	-7mm+2.5mm	Clayey silty plains with scattered quartz pebbles.	G	15	0.2	55	2.0	5580	2.7	1720	0.2
3339783	408050	6477050	54	54359	-7mm+2.5mm	Clayey silty plains with scattered quartz pebbles.	G	20	0.2	49	1.0	2460	2.5	1400	0.3
3339784	405850	6477150	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	VG	45	0.1	55	0.5	1970	2.3	1200	0.5
3339785	404000	6476950	54	54359	-7mm+2.5mm	Clayey silty plains with abundant quartz scree.Qg4?	VG	2	0.2	72	0.5	5990	2.4	1990	0.4
3339794	403000	6475000	54	54359	-7mm+2.5mm	Clayey silty plains with abundant quartz scree.Qg4?Sample from ants nest.	G	5	0.4	50	0.5	5510	2.6	1310	0.6
3339801	420950	6475250	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	20	0.3	120	0.5	2300	4.9	1240	0.3
3339802	419150	6474900	54	54359	-7mm+2.5mm	Claypan in sandy silty plains with gravel patches.	G	7	0.2	93	1.0	879	3.8	3410	0.6

SAMPLENO	EAST	NORTH	ZONE	DPO	FRACTION	DESCRIPTION	RECOVERY	%LAG	Ag	As	Au	Ba	Bi	Ca	Cd
3339803	416750	6475000	54	54359	-7mm+2.5mm	Claypan in sandy silty gravely plains.	G	8	0.2	90	0.5	766	3.3	2330	0.3
3339804	414850	6475300	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	<1	0.3	52	1.0	1160	1.9	11290	0.5
3339805	413000	6475000	54	54359	-7mm+2.5mm	Claypan in sandy silty plains.	G	2	0.2	58	2.0	923	2.4	2690	0.4
3339806	411100	6474950	54	54359	-7mm+2.5mm	Clayey silty plains with scattered quartz and lith fragments.	VG	30	0.2	55	0.5	6130	3.5	1190	0.3
3339807	408900	6475000	54	54359	-7mm+2.5mm	Clayey silty plains with scattered gravel patches.Qg?	VG	60	0.2	39	0.5	1170	2.5	1240	0.3
3339808	407050	6475050	54	54359	-7mm+2.5mm	Clayey silty plains with scattered quartz pebbles.	G	40	0.3	56	0.5	3550	2.4	2240	0.2
3339809	404500	6475150	54	54359	-7mm+2.5mm	Clayey silty plains with scattered quartz pebbles.	G	60	0.2	47	0.5	6520	1.7	1270	0.3
METHOD									GS201	GS201	GS333	GI201	GS201	GI201	GS201
LDETECTION									0.1	1	1.0	5	0.1	50	0.1
UDETECTION									500.0	1000	1000.0	10000	1000.0	400000	1000.0
UNITS									ppm	ppm	ppb	ppm	ppm	ppm	ppm

SAMPLENO	Ce	Co	Cr	Cu	Eu	Fe	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Th	Ti	U	W	Zn	+2mm	Sinks
3339705	78.60	6.3	261	52	1.83	421500	6760	47.60	1110	408	11.2	921	29	673	82	1.1	2.1	7.4	48.90	3540	4.08	4.3	18	1345	39.16
3339706	124.00	12.1	265	59	2.37	419500	6580	76.00	1180	866	10.4	995	29	976	115	0.6	1.8	4.3	57.30	3780	4.31	4.8	20	4035	113.64
3339707	142.00	8.8	225	50	2.45	362600	6520	79.50	1320	551	10.4	995	26	652	97	0.5	1.5	5.1	48.40	3690	4.44	3.7	23	4482	53.68
3339708	115.00	9.7	273	53	2.20	450000	5250	68.40	946	628	9.5	702	26	705	93	0.8	1.6	4.4	57.30	3680	4.60	4.7	9	4592	126.84
3339709	109.00	12.0	268	69	1.83	413500	6340	52.30	1440	853	9.2	906	34	695	85	1.3	1.9	4.3	54.30	3930	4.41	3.7	20	1666	24.40
3339710	112.00	10.5	279	55	2.30	473000	6030	62.30	1090	703	10.3	773	32	691	108	0.7	2.3	3.7	61.80	3830	4.11	7.6	2.5	2140	56.87
3339711	97.30	13.8	251	59	1.91	419400	6530	56.90	1240	538	14.7	854	28	713	91	1.0	2.5	6.5	53.20	3500	4.34	5.0	31	2362	38.77
3339712	115.00	8.5	220	51	1.88	360200	7820	55.70	1460	682	8.1	1580	29	693	92	0.0	0.0	3.2	53.90	3390	3.88	4.0	33	1810	13.24
3339713	107.00	12.2	245	60	2.18	391300	6660	57.00	1060	677	8.5	1200	27	702	90	0.6	1.9	3.7	53.90	4200	3.89	5.3	22	3800	79.77
3339714	95.50	11.8	251	57	2.20	401000	6580	59.10	1230	494	10.3	1040	28	823	93	3.6	1.8	5.2	55.70	4820	9.07	4.3	42	1615	30.89
3339715	108.00	11.8	254	65	2.01	410000	8770	52.50	1050	820	10.8	1140	27	850	100	1.0	2.1	4.8	56.20	3410	4.64	3.8	43	751	33.09
3339716	69.60	16.0	230	120	1.67	466000	4940	40.40	1140	754	11.3	683	34	881	94	0.6	2.7	2.5	53.80	3580	6.13	4.2	27	1425	75.68
3339717	160.00	11.7	279	71	2.20	430800	5460	90.40	1010	520	12.6	676	32	701	88	0.7	1.7	4.5	61.10	3580	5.68	3.3	20	2707	54.07
3339718	101.00	25.8	203	65	1.66	360400	8550	49.80	1030	1440	10.0	1550	26	601	99	0.5	2.1	2.6	55.50	3170	4.26	5.5	25	2174	78.34
3339719	79.20	16.5	254	65	1.82	451900	6480	47.30	981	612	11.7	971	40	689	111	15.5	2.2	3.9	61.10	3070	5.29	5.4	58	1589	67.23
3339720	103.00	9.4	317	53	2.52	456300	6320	67.70	1160	619	10.5	665	33	661	93	0.7	2.3	5.3	64.00	3760	4.22	4.8	22	4839	75.61
3339721	390.00	21.3	263	83	3.91	316600	11560	270.00	3440	1220	6.6	2430	34	709	134	1.2	1.5	3.3	53.60	6280	49.80	3.6	227	4630	31.74
3339722	91.00	9.1	216	47	2.18	344000	7060	58.80	1740	700	8.1	1340	23	698	75	0.8	1.3	3.6	48.30	3940	5.00	2.7	36	4144	31.09
3339723	104.00	7.1	259	46	2.16	375100	8260	62.80	1160	385	9.8	1060	23	663	82	0.6	1.6	5.2	52.90	3700	5.40	3.1	33	2441	42.28
3339724	123.00	14.1	269	57	2.41	404900	7970	76.70	1180	1240	13.7	1150	24	716	88	0.5	1.7	4.8	59.90	3220	4.70	2.8	9	2846	61.83
3339725	66.20	8.5	300	48	1.68	426100	6850	44.30	950	802	11.5	949	21	657	80	0.6	1.8	3.5	62.40	3340	4.14	5.2	12	1571	139.95
3339726	108.00	9.9	266	45	2.10	392900	6870	67.30	1200	685	9.6	1070	27	642	81	0.3	1.5	3.9	55.80	3360	4.54	5.2	25	4200	65.68
3339727	89.40	6.3	277	49	2.23	429700	6330	61.20	1140	455	10.5	855	25	676	88	0.6	1.2	4.2	61.90	3410	5.38	3.9	16	3645	71.64
3339728	116.00	18.0	245	61	2.49	392900	8040	78.80	1410	930	10.8	1210	28	803	100	0.6	1.3	3.8	56.00	4030	6.63	4.3	58	4847	46.10
3339729	81.70	17.5	384	60	1.78	537900	3490	48.30	839	810	14.5	406	41	714	91	1.3	4.0	4.0	72.60	4480	4.77	3.7	40	1157	41.76
3339730	262.00	40.2	222	80	2.47	406900	7000	121.00	1970	1790	9.3	1440	50	832	74	0.7	1.5	1.9	56.50	6670	12.00	3.7	96	4297	58.53
3339731	148.00	29.7	249	87	2.79	373800	7430	88.20	1920	965	10.0	1680	38	712	77	0.8	1.6	3.5	55.00	4130	7.03	4.3	78	5124	37.57
3339732	260.00	24.9	209	65	2.86	325600	13070	169.00	2930	1970	8.2	2150	39	756	93	0.6	1.2	2.6	55.50	6810	50.90	4.7	222	2934	24.10
3339733	88.30	20.8	274	56	1.83	402000	6830	55.60	1330	776	13.3	978	27	622	81	0.7	1.5	3.9	60.10	3370	5.29	3.2	43	2530	69.59
3339734	93.60	7.6	336	54	2.21	485400	6240	63.30	1130	454	11.9	717	35	831	96	0.8	7.0	4.2	72.10	4700	9.58	4.3	18	835	50.45
3339735	85.90	7.7	252	47	1.94	398000	9650	56.80	1050	533	9.6	1770	20	640	91	0.7	1.9	2.5	70.80	3660	4.26	4.5	7	686	92.17
3339736	77.10	8.4	315	60	2.04	461600	5800	53.20	942	548	12.3	728	22	716	85	0.7	1.4	4.0	67.80	3240	4.69	3.6	27	2401	150.24
3339737	83.30	10.4	274	52	2.02	391800	6470	54.50	1080	323	10.4	792	23	620	81	0.9	1.4	3.5	54.50	3560	5.58	2.5	13	2602	42.08
3339738	160.00	11.8	258	60	3.00	389000	7970	96.10	1810	764	10.1	1080	30	665	73	0.8	1.3	3.9	56.00	3940	5.42	3.3	80	4296	26.17
3339739	289.00	46.9	201	100	3.51	325200	13690	151.00	2620	1740	7.1	2570	55	971	60	0.0	0.0	1.6	53.90	6400	15.60	5.0	216	3529	17.60
3339740	128.00	24.4	304	75	2.34	449500	7890	68.70	1680	1510	8.9	1340	39	751	93	0.7	2.0	3.1	59.60	4640	7.36	5.5	72	3634	57.74
3339741	124.00	30.7	223	101	3.03	385500	6830	82.20	1790	1480	9.3	1480	43	809	70	0.0	0.0	2.6	48.20	4020	9.47	2.4	77	4177	24.49
3339742	137.00	11.7	211	76	2.90	390300	8150	84.40	2600	953	7.4	2170	37	900	79	0.0	0.0	2.2	53.40	4900	7.35	4.1	120	3783	15.80
3339743	177.00	13.6	283	65	2.77	478000	5510	82.10	1070	429	11.1	814	39	903	96	0.7	1.5	2.2	68.40	3740	8.47	2.9	15	1946	80.56
3339744	139.00	37.2	219	117	3.02	438400	5600	107.00	1830	484	12.7	1270	35	1050	82	1.4	1.9	1.5	67.00	5000	27.50	2.2	41	5170	46.67
3339745	91.50	6.0	200	42	2.23	397000	8670	59.10	927	409	10.9	1360	19	588	93	0.6	1.6	2.6	64.10	3310	4.27	3.5	2.5	2371	204.75
3339746	101.00	8.9	226	45	2.15	354900	7820	61.70	1190	484	10.3	1170	23	701	88	1.2	1.0	3.0	53.50	3270	5.45	3.0	56	2023	20.86

SAMPLENO	Ce	Co	Cr	Cu	Eu	Fe	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Th	Ti	U	W	Zn	+2mm	Sinks
3339747	111.00	21.4	313	60	2.64	487600	5750	71.10	1050	1280	12.7	680	29	750	88	0.6	1.6	4.1	66.70	3650	5.30	6.8	16	6550	142.39
3339748	120.00	25.7	309	70	2.99	473600	6080	79.60	1100	1550	11.4	691	30	765	93	0.9	1.8	4.1	62.30	3460	5.59	3.0	28	3551	91.26
3339749	83.40	35.5	281	67	1.60	489100	5000	46.70	1190	1400	8.7	765	37	746	81	0.9	1.7	2.7	58.40	5500	15.20	5.7	38	5047	219.63
3339750	185.00	28.2	263	86	3.38	438700	6960	110.00	1500	1380	11.0	980	41	810	87	0.9	1.7	2.5	56.20	4760	10.00	5.6	79	4727	39.68
3339751	135.00	19.5	273	85	3.74	431700	6400	90.60	2290	426	9.6	1350	48	817	69	0.7	1.5	2.2	53.40	4610	8.04	5.3	100	4153	31.44
3339752	164.00	18.5	254	79	2.76	409600	7400	68.90	1290	1080	10.8	1140	30	838	92	0.7	1.7	1.9	59.70	4590	8.09	5.2	33	5342	82.16
3339753	96.30	16.4	313	69	2.54	457100	6110	61.30	1060	370	11.7	931	28	830	86	0.7	1.6	2.1	65.70	4270	7.09	3.5	10	5242	74.45
3339754	225.00	21.3	270	113	3.31	422000	7510	122.00	1450	500	14.9	1290	36	948	111	2.3	2.1	1.9	70.80	4900	45.90	4.3	27	5026	40.15
3339755	198.00	99.1	270	188	3.29	399100	5940	162.00	2040	3000	14.5	1260	54	840	122	0.0	0.0	1.8	67.00	8020	72.20	4.6	52	4760	19.21
3339756	617.00	71.9	253	185	5.77	430400	5450	354.00	1750	1660	15.2	1250	61	1030	88	1.2	2.1	1.9	53.90	7290	71.40	5.8	43	5322	36.13
3339757	222.00	48.4	251	161	3.34	404300	7610	118.00	1780	1110	15.6	1320	78	1010	67	0.7	1.7	2.1	65.80	4790	17.00	3.4	42	5779	42.76
3339758	190.00	93.0	269	147	2.57	422800	7230	102.00	1660	2250	13.2	1330	46	1510	82	1.0	3.8	1.9	60.20	4600	24.50	3.8	18	4086	25.61
3339759	122.00	13.1	244	94	2.73	364800	11110	72.30	2160	409	12.7	2160	32	1010	76	0.0	0.0	2.8	52.40	6130	7.70	3.5	16	2278	3.92
3339760	229.00	45.2	292	154	3.16	460200	3680	160.00	1420	638	18.4	915	84	1080	86	2.0	2.0	2.1	67.20	5950	46.90	5.7	29	4721	23.37
3339761	449.00	72.5	246	173	3.54	398200	6860	232.00	1710	2780	12.6	1210	46	1210	98	1.6	2.5	2.0	64.00	7140	68.80	6.8	26	4873	31.29
3339762	154.00	70.7	238	136	2.46	373200	7820	69.00	1610	1320	14.4	1870	40	1190	102	1.9	2.7	1.3	54.60	5490	13.90	3.9	42	4139	22.69
3339763	145.00	27.4	296	90	3.41	445900	5270	88.30	1160	807	10.6	900	33	891	74	1.7	1.3	1.9	70.40	5600	13.30	3.6	11	4808	19.46
3339764	194.00	49.8	249	151	3.66	420700	5850	141.00	1710	784	11.6	1490	60	1220	81	0.0	0.0	1.6	63.00	5950	37.60	4.8	40	4346	8.88
3339765	205.00	19.2	276	115	3.26	373700	7790	126.00	2450	620	13.6	1680	37	1140	82	0.0	0.0	1.7	63.40	6540	53.80	3.7	11	4800	14.08
3339766	113.00	21.2	279	68	2.80	428100	7270	70.40	1060	930	12.3	797	34	814	80	0.8	1.4	1.8	59.70	4360	8.09	3.9	11	4333	60.25
3339767	118.00	14.2	329	54	2.50	470300	5090	65.50	789	411	10.0	590	28	847	86	0.8	1.5	2.0	67.90	4050	13.10	3.6	9	3513	191.47
3339768	110.00	24.3	271	79	2.24	435500	6030	60.40	1020	741	11.0	944	33	868	98	0.9	1.8	2.0	61.30	3850	7.32	4.0	33	4804	174.21
3339769	125.00	27.5	307	80	3.35	478500	4750	82.30	1240	786	10.0	963	35	895	81	1.1	1.6	2.3	60.50	3920	7.35	3.6	73	3573	30.45
3339770	289.00	32.9	251	100	3.89	405700	5700	163.00	1610	2230	8.6	1420	45	892	76	1.6	1.6	2.2	51.30	4150	7.99	5.9	132	3436	30.18
3339771	312.00	61.5	248	108	4.04	416900	8120	168.00	2090	5150	8.9	1400	63	977	96	1.0	2.0	2.7	53.60	7270	22.20	9.6	162	3796	76.46
3339772	101.00	15.5	303	53	2.18	435500	5440	57.80	1050	1040	11.9	535	28	681	80	0.9	1.8	3.4	64.70	3760	3.77	3.2	15	3697	39.06
3339773	111.00	13.4	320	52	2.61	469600	5250	69.10	933	704	15.5	662	26	665	104	0.8	2.3	4.7	62.60	3160	4.52	3.5	12	1725	69.04
3339774	94.20	9.4	266	65	2.21	418600	6510	58.10	1130	707	13.3	915	24	770	110	0.6	1.8	3.8	59.00	2990	5.03	4.9	39	2690	129.21
3339775	77.20	3.9	266	39	1.70	369700	9120	50.30	974	534	14.9	1020	17	554	139	0.8	2.6	3.8	59.30	3300	4.08	3.6	2.5	1990	164.79
3339776	101.00	5.6	289	53	2.06	449800	6690	53.80	872	535	14.0	923	24	644	153	0.8	2.7	4.6	68.30	2940	4.54	5.9	2.5	1305	140.71
3339777	159.00	13.0	259	78	3.56	440400	6370	97.40	1060	875	12.9	995	26	1170	119	0.6	1.6	3.8	57.60	2850	5.17	9.5	130	2248	120.52
3339778	99.20	13.0	219	83	2.14	343500	6370	57.30	1010	957	11.1	1090	27	715	82	0.6	1.6	3.0	49.60	3150	5.13	3.4	64	1493	46.19
3339779	257.00	24.7	266	64	2.89	393800	6670	89.10	1220	1540	11.8	1020	33	794	83	0.8	1.5	3.5	52.20	4630	22.40	3.7	75	2863	62.39
3339780	428.00	71.4	216	116	5.01	350300	13120	218.00	2810	2980	8.7	2020	70	1030	67	0.9	1.9	2.4	49.60	7190	18.10	7.5	193	4650	61.21
3339781	150.00	16.5	271	61	4.09	440400	6000	97.60	1060	1250	9.8	936	33	864	84	0.7	1.6	2.3	65.10	3390	6.21	4.0	72	4340	43.78
3339782	110.00	32.2	314	55	3.19	510300	4150	75.50	711	660	8.5	565	33	779	76	0.7	1.6	2.2	66.10	3980	4.59	8.2	6	1808	140.09
3339783	114.00	31.9	264	71	2.76	442700	5650	72.10	833	935	10.3	916	27	788	97	0.6	1.7	2.1	63.90	3930	5.46	6.2	12	3850	113.90
3339784	71.20	14.0	337	61	1.91	503000	3900	40.10	751	793	12.6	483	30	851	97	1.0	1.9	2.4	71.60	4120	6.90	4.3	10	2089	158.68
3339785	311.00	118.0	318	100	6.10	511400	3380	183.00	1080	4950	9.2	530	59	1390	101	1.1	2.5	1.9	53.90	5840	8.14	3.0	55	4201	42.31
3339794	146.00	19.4	352	69	2.93	516600	3960	92.20	783	428	12.8	508	41	836	87	0.9	2.5	2.3	76.00	4490	13.50	3.6	43	3270	156.53
3339801	134.00	11.1	317	64	2.96	505100	4750	75.50	753	416	22.6	758	25	912	106	0.5	2.5	3.8	74.10	2880	5.48	6.7	79	1814	234.66
3339802	126.00	21.6	191	87	2.56	307900	5700	71.90	1000	1400	9.6	1130	29	851	77	0.7	1.6	2.5	43.00	2570	6.55	6.3	145	3178	110.65

SAMPLENO	Ce	Co	Cr	Cu	Eu	Fe	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Pd	Pt	Sb	Th	Ti	U	W	Zn	+2mm	Sinks
3339803	108.00	14.4	279	62	2.44	401900	7470	67.10	1300	600	18.1	1120	32	730	80	0.6	1.9	3.7	57.30	3850	4.85	4.5	58	2173	69.46
3339804	334.00	66.6	186	117	3.89	277200	16730	204.00	3910	3350	7.2	2820	66	1130	53	2.9	1.8	1.6	41.30	8050	12.40	5.8	224	4117	37.68
3339805	169.00	16.2	243	85	4.13	397000	9110	106.00	1580	701	9.4	1370	44	1020	70	0.6	1.9	2.1	52.00	4250	7.25	5.3	213	3990	74.13
3339806	116.00	11.3	327	46	2.99	519600	4420	72.00	679	592	9.3	605	29	967	79	0.6	1.6	2.3	64.40	4550	5.81	11.6	49	479	96.27
3339807	87.50	7.3	228	47	2.05	403000	9560	50.00	884	608	8.8	1440	20	789	94	0.7	1.6	1.3	60.00	3520	5.69	4.6	46	3547	159.37
3339808	86.30	7.9	270	53	1.95	467400	8230	47.80	1060	846	10.6	876	25	743	133	0.3	2.0	1.6	66.10	3550	5.01	8.8	68	2931	130.27
3339809	73.40	27.2	371	56	2.18	517400	3090	46.20	710	558	11.4	435	36	867	72	0.8	3.2	2.0	67.60	5140	7.17	5.2	37	1715	166.05
METHOD	GS201	GS201	GI201	GI201	GS201	GI201	GI201	GS201	GI201	GI201	GS201	GI201	GI201	GI201	GS201	GS333	GS333	GS201	GS201	GI201	GS201	GS201	GI201		
LDETECTION	0.05	0.2	10	5	0.05	100	500	0.05	20	15	0.1	50	10	30	1	0.5	0.5	0.1	0.05	10	0.05	0.1	5		
UDETECTION	1000.00	2000.0	20000	10000	500.00	999999	200000	1000.00	400000	50000	1000.0	200000	10000	100000	2000	1000.0	1000.0	1000.0	1000.00	20000	1000.00	1000.0	10000		
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	g	g

APPENDIX III

Stream Sediment Results

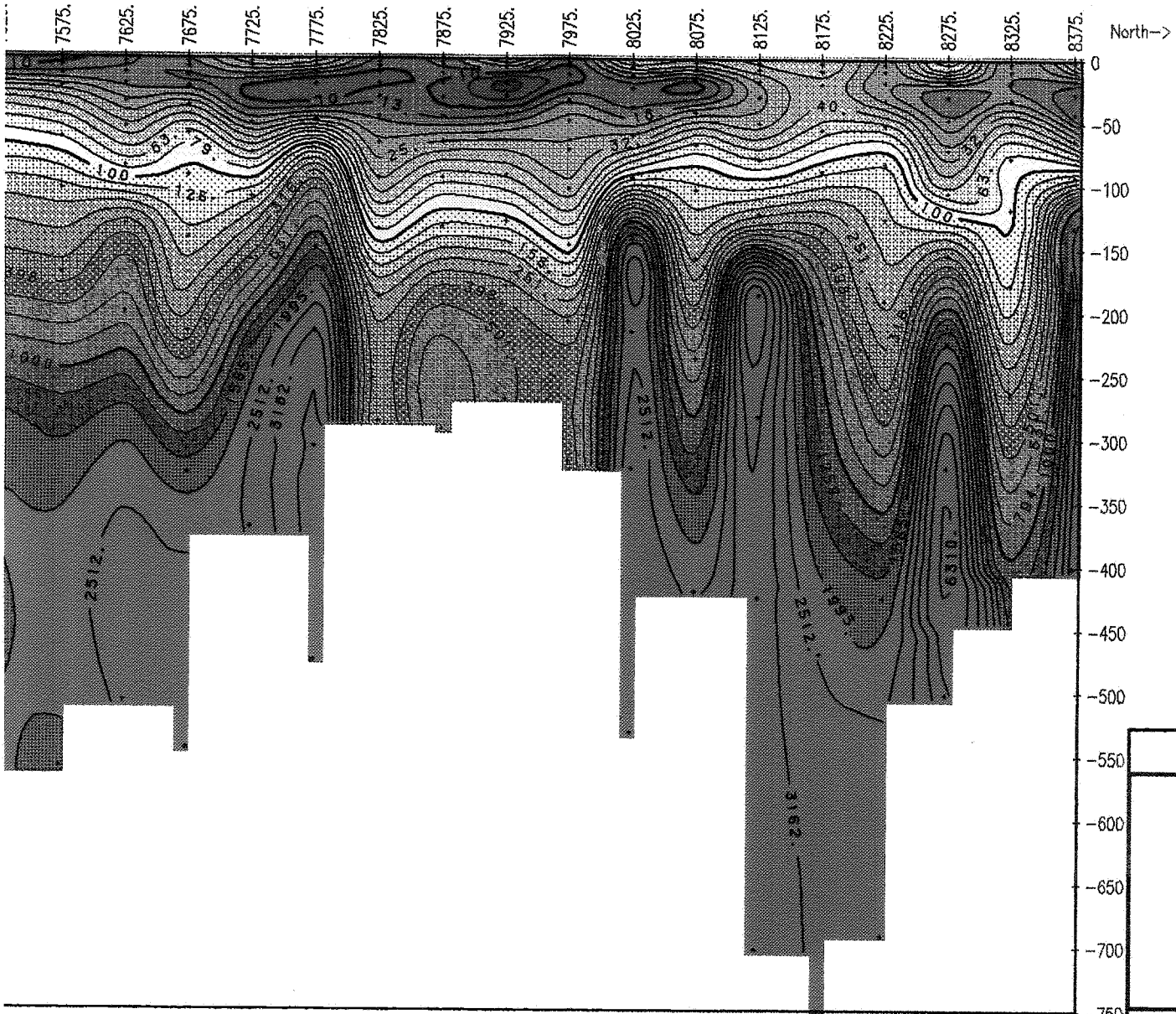
Deep Well Dam EL 2016- Stream Sediment Results

SAMPLENO	EASTING	NORTHING	ZONE	DPO	FRACTION	Ag	As	Au	Ba	Bi	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3943351	402216.2	6477940.71	54	54364	-80#	-0.1	3.0	1		0.4	2600	10	49	24	32800	14700	5800	440	1.1	8300	19	15	8.00	1.60	55
3943370	409899.29	6473942.28	54	54364	-80#	-0.1	3.0	-1		0.3	6000	10	43	21	30300	16000	7500	380	0.4	7200	20	15	8.00	1.40	62
3943565	421904.99	6474131.35	54	54365	-80#	-0.1	21.5	1	50	0.3	2800	6	37	16	25400	9200	3900	300	0.3	11000	12	10	3.70	1.75	57
3943566	422251.58	6476400.13	54	54365	-80#	-0.1	11.5	3	80	0.2	2200	4	33	13	23500	9000	2500	260	0.4	10300	9	10	3.70	1.90	38
SCHEME						IC3M	IC3M	AA9	IC3EAR	IC3M	IC3EAR	IC3EAR	IC3EAR	IC3EAR	IC3EAR	IC3EAR	IC3EAR	IC3EAR	IC3M	IC3EAR	IC3EAR	IC3EAR	IC3M	IC3M	IC3EAR
DL						0.1	0.5	1	5	0.1	10	2	2	2	100	10	10	5	0.1	10	2	5	0.02	0.02	2
UNITS						PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM

LAB: AMDEL Adelaide

APPENDIX IV

Raw & Smooth Model Inversions, CSAMT Survey Data & IP Survey Data



Static Corrected Data

Smooth-model Resistivity (ohm-metres)
Plotted 22/12/94 for CRA Exploration

50 0 50 100
(metres)

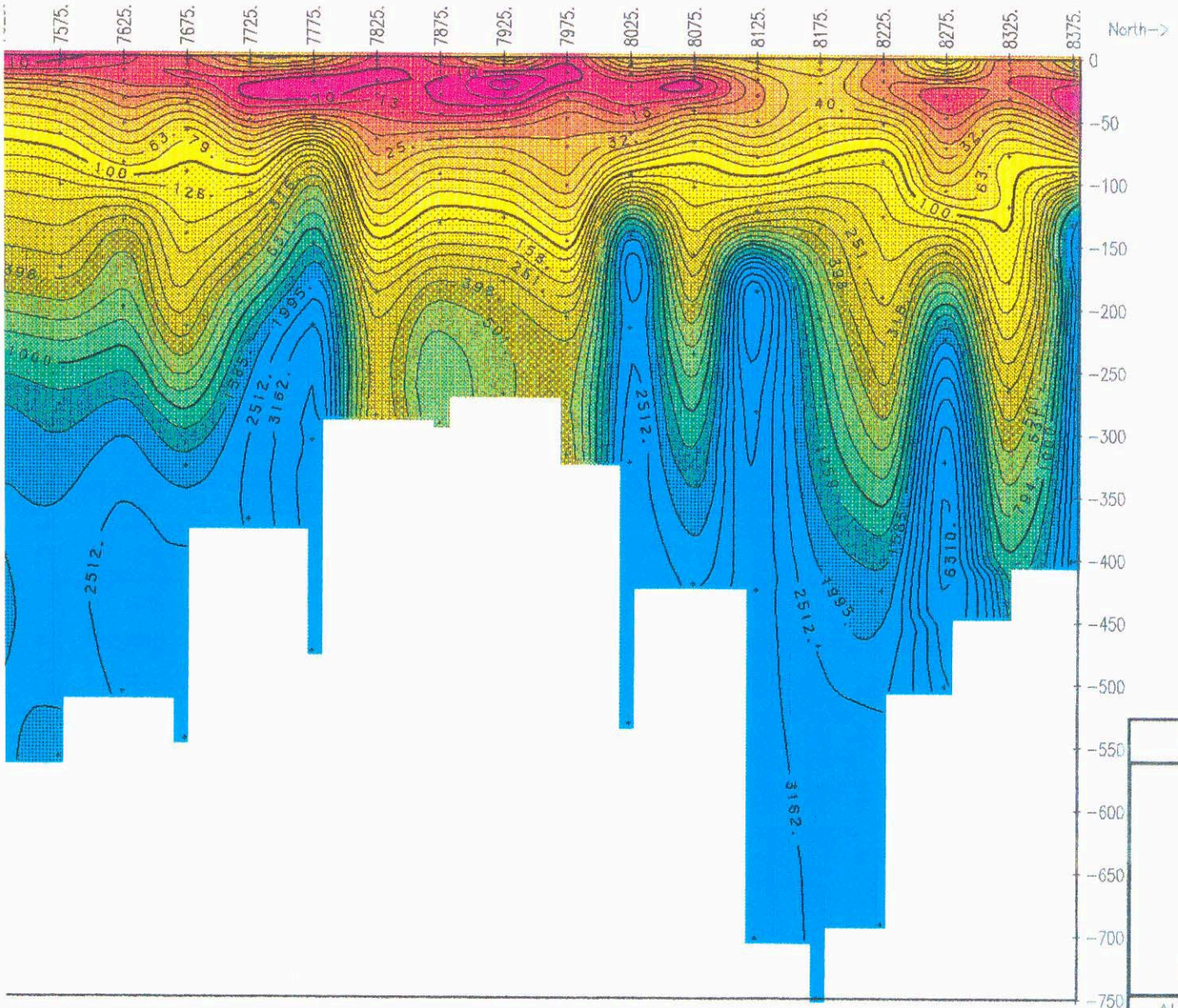
CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016 - S.A.

Line 950 E

Smooth-model Inversion of CSAMT Data

AUTHOR	DRAWN	DATE	SCALE	REPORT
		22/12/94	1: 5000	
REF.		FILE		PLAN No.



Static Corrected Data

Smooth-model Resistivity (ohm-metres)
Plotted 22/12/94 for CRA Exploration

50 0 50 100
(metres)

CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016 - S.A.

Line 950 E

Smooth-model Inversion of CSAMT Data

AUTHOR	DRAWN	DATE	SCALE	REPORT
		22/12/94	1: 5000	
REF.		FILE		PLAN No.

Line 950 E

DEEP WELL DAM

for

CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 21 Dec 94

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

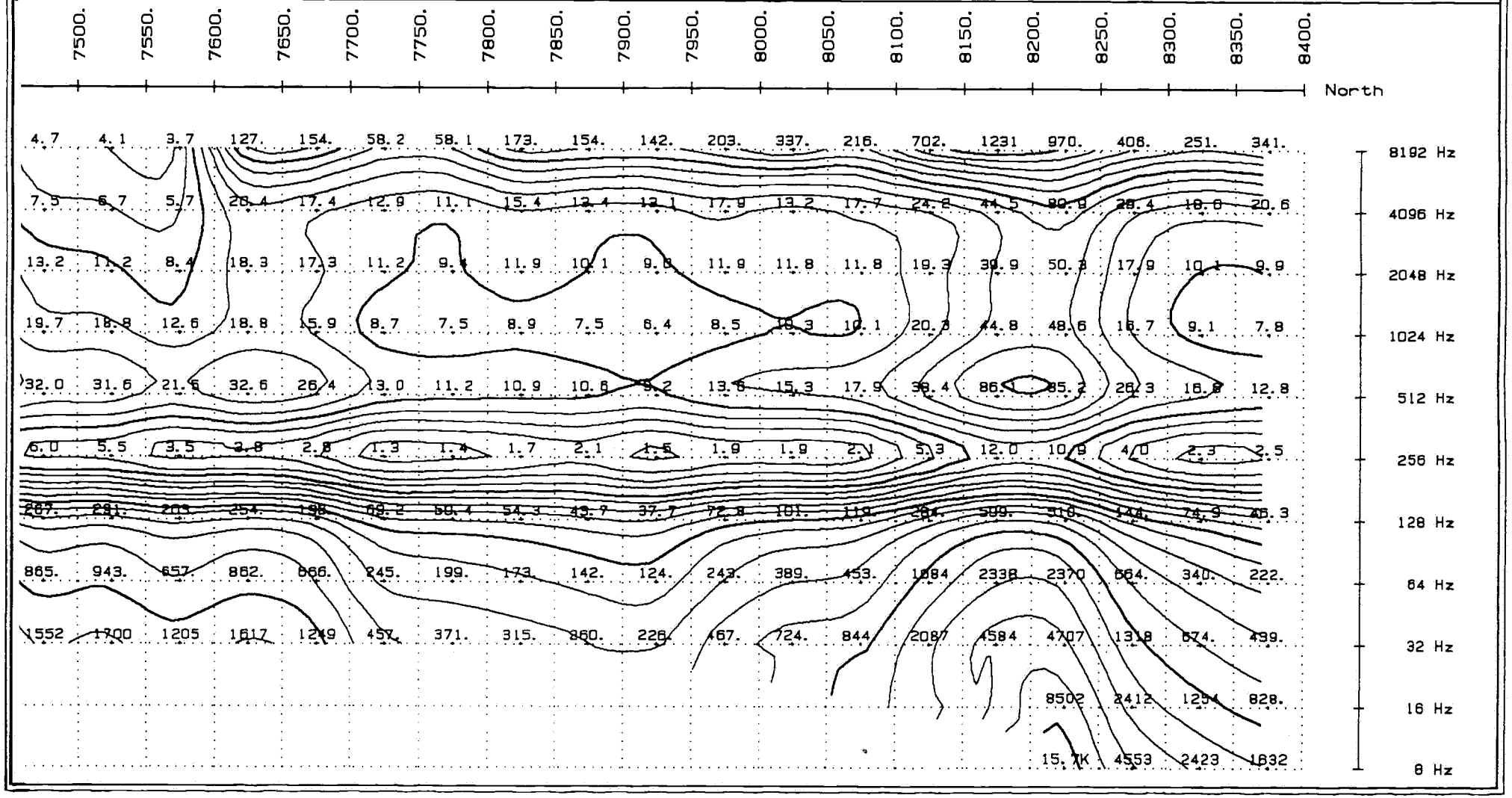
RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 351

Surveyed= 12/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 351
Distance= 6000 m
Rx to Tx= 081

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[1.26]	100.	10.0K
1.58	158.	[15.7K]
2.51	251.	
3.98	398.	
6.31	631.	
10.0	1000	
15.8	1585	
25.1	2512	
39.8	3981	
63.1	6310	



Line 950 E

DEEP WELL DAM

for

CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 21 Dec 94

CSAMT SURVEY DATA
IMPEDANCE PHASE

values in millirodians

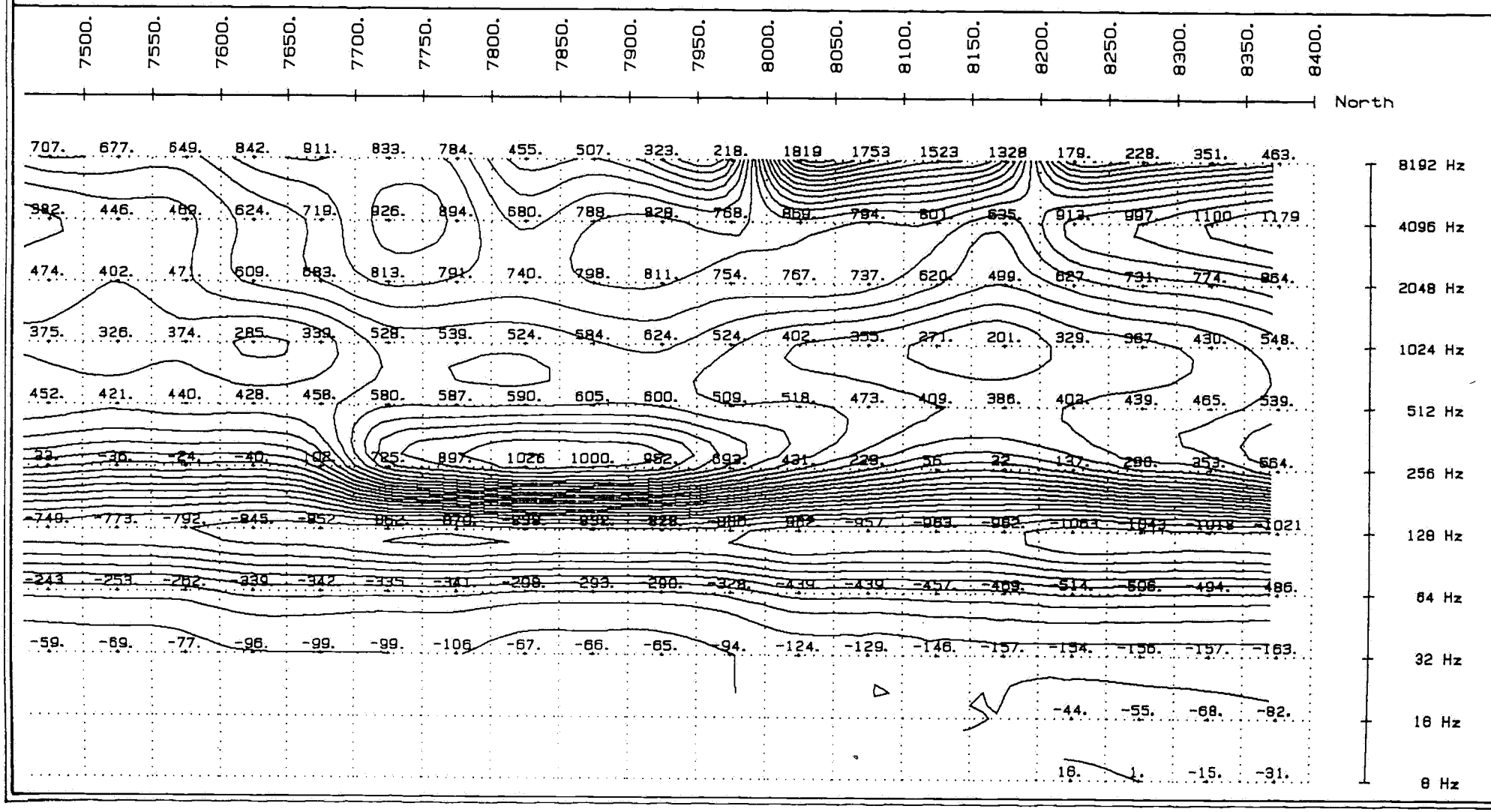
RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 351

Surveyed= 12/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 351
Distance= 6000 m
Rx to Tx= 081

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-1073]	-100.	900.	1900
-1000	0.00	1000	[1940]
-900.	100.	1100	
-800.	200.	1200	
-700.	300.	1300	
-600.	400.	1400	
-500.	500.	1500	
-400.	600.	1600	
-300.	700.	1700	
-200.	800.	1800	



Line 950 E

DEEP WELL DAM

for

CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 21 Dec 94

CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v1.14d 12/21/94

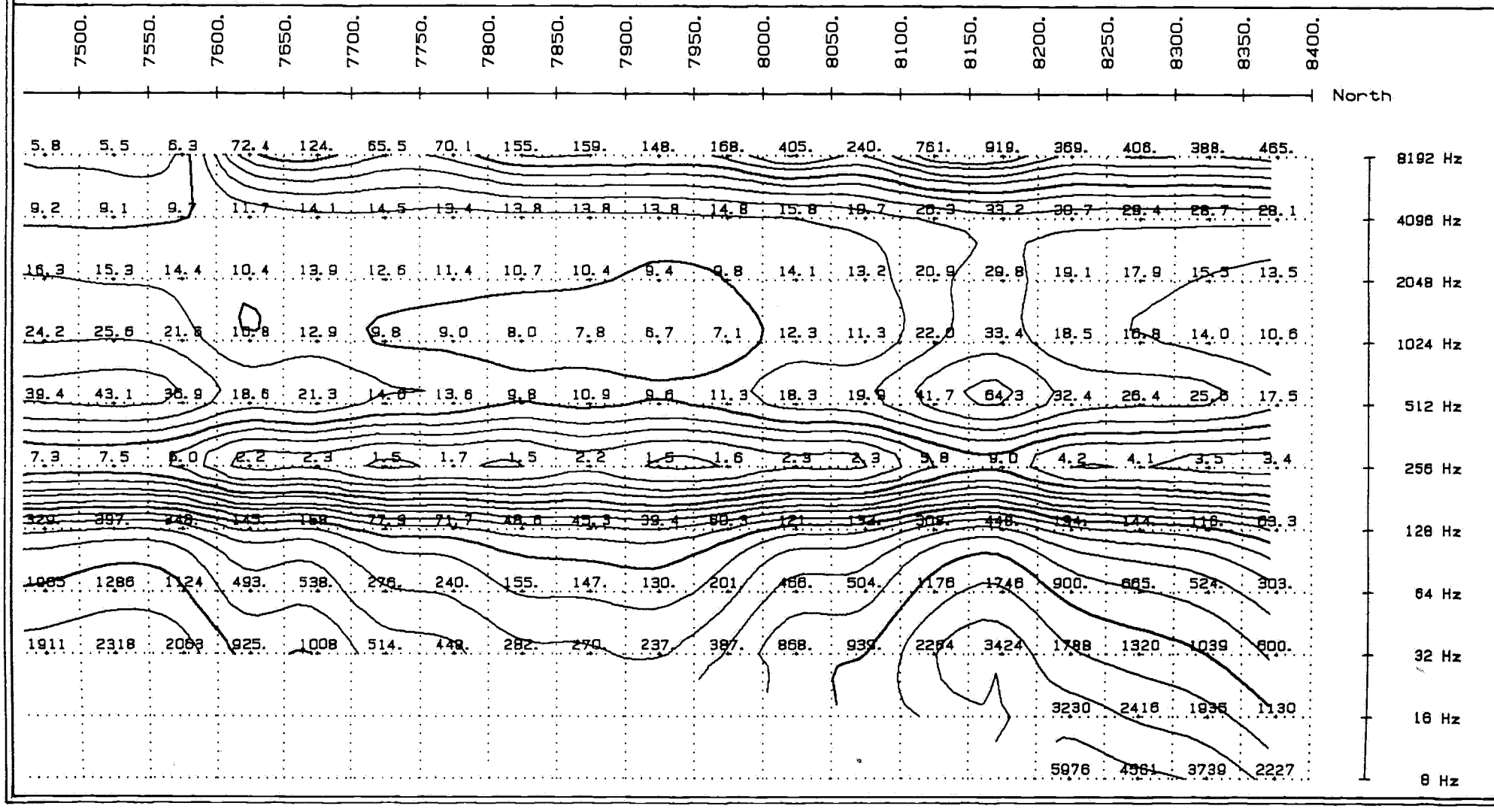
RECEIVER DATA
Length = 50 m Line = North
Spacing= 50 m Dipole= 351

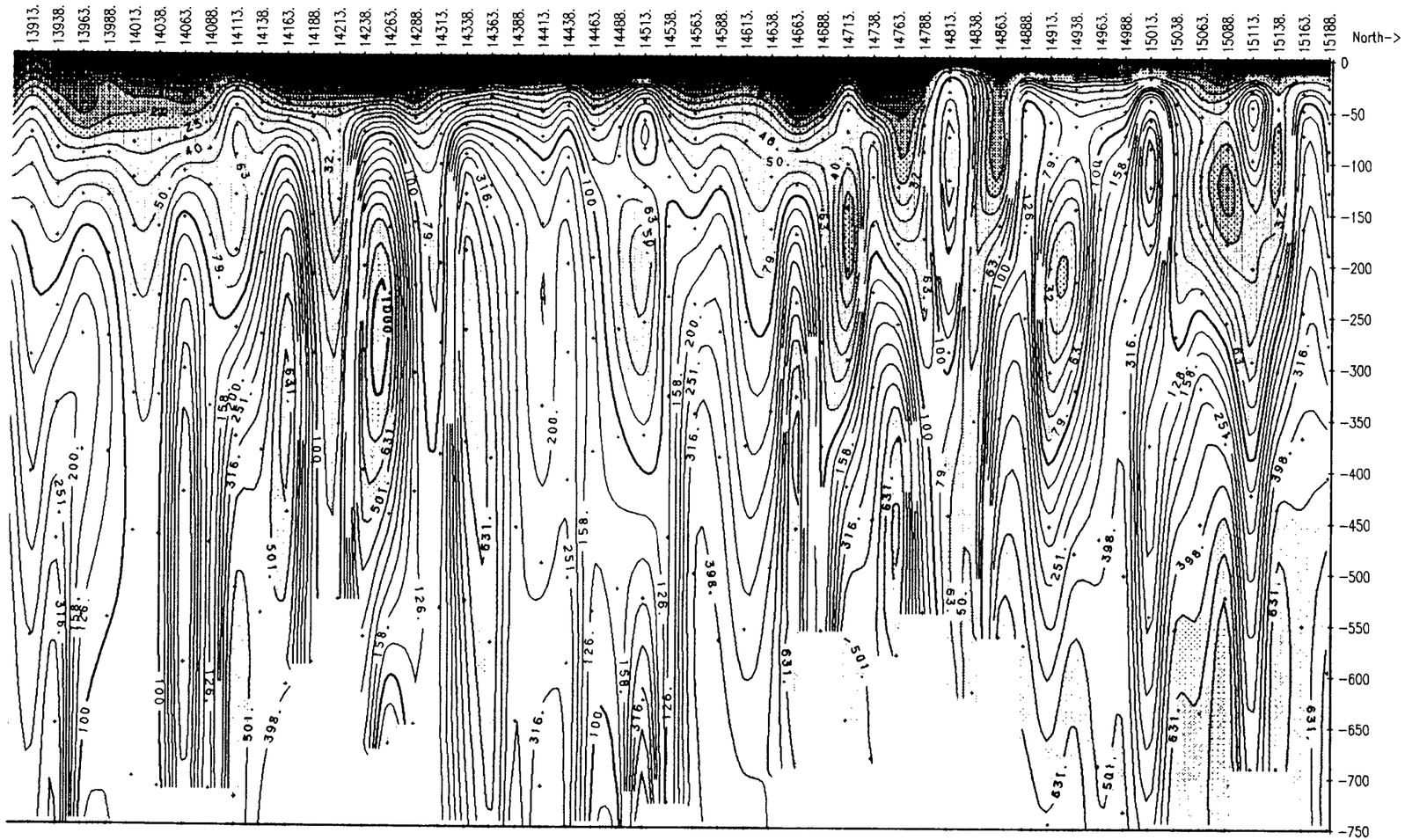
Surveyed= 12/94

TRANSMITTER DATA
Length = 1500 m
Orient. = 351
Distance= 6000 m
Rx to Tx= 081

[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

[1.46]	100.
1.58	158.
2.51	251.
3.98	398.
6.31	631.
10.0	1000
15.8	1585
25.1	2512
39.8	3981
63.1	[5976]





Static Corrected Data

Smooth-model Resistivity (ohm-metres)
Plotted 06/02/95 for CRA Exploration

50 0 50 100
(meters)

CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016 - S.A.

Line 9800 E

Smooth-model Inversion of CSAMT Data

AUTHOR	DRAWN	DATE	SCALE	REPORT
		06/02/95	1: 5000	
REF.		FILE		PLAN No.

Line 9800 E

DEEP WELL DAM EL 2016 - S.A.

for

CRAE

Field Job 252
ZONGE ZPLOT 7.09
Plotted 25 Jan 95

CSAMT SURVEY DATA
CAGNIARD RESISTIVITY

values in ohm-meters

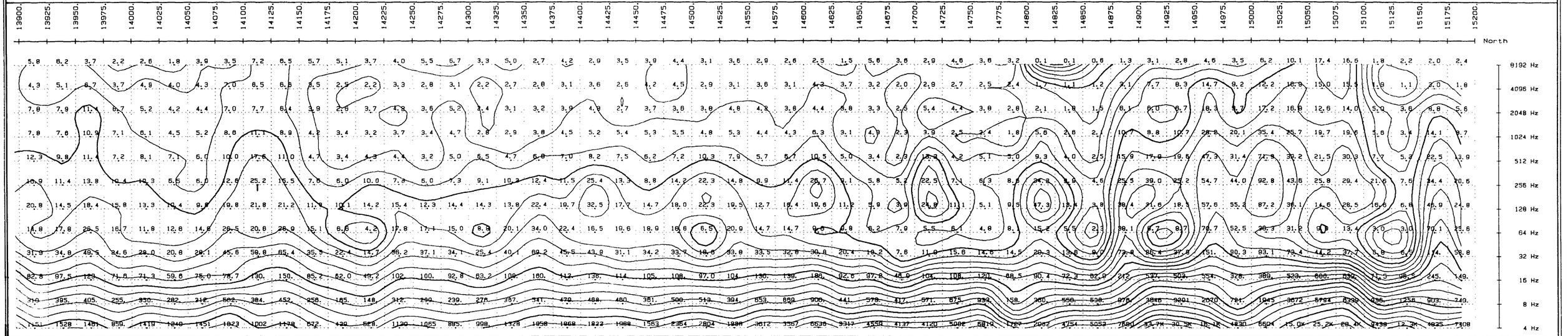
RECEIVER DATA
Length = 25 m Line = North
Spacing= 25 m Dipole= 351

Surveyed= 1/95

TRANSMITTER DATA
Length = 1500 m
Orient. = 026
Distance= 6000 m
Rx to Tx= 081

[Plot limits] and LOGARITHMIC CONTOURS
(Interval= 0.20)

[93.8m]	8.31	831.
.100	10.0	1000
.158	15.8	1585
.251	25.1	2512
.398	39.8	3981
.631	63.1	6310
1.00	100.	10.0K
1.58	158.	15.8K
2.51	251.	25.1K
3.98	398.	[37.4K]



Line 9800 E

DEEP WELL DAM EL 2016 - S.A.

for

CRAE

Field Job 252
ZONGE ZPLOT 7.09
Plotted 25 Jan 95

CSAMT SURVEY DATA
IMPEDANCE PHASE

values in milliradians

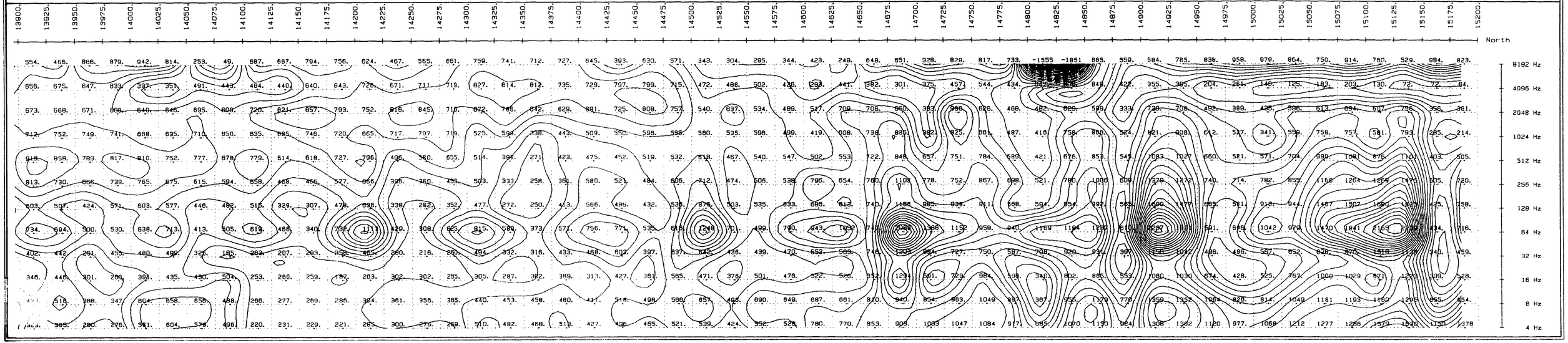
RECEIVER DATA
Length = 25 m Line = North
Spacing= 25 m Dipole= 351

TRANSMITTER DATA
Length = 1500 m
Orient. = 026
Distance= 6000 m
Rx to Tx= 081

Surveyed= 1/95

[Plot limits] and ARITHMETIC CONTOURS
(Interval: 100.00)

[-2083]	-1100	-100.	900.	1900
-2000	-1000	0.00	1000	2000
-1900	-900.	100.	1100	2100
-1800	-800.	200.	1200	2200
-1700	-700.	300.	1300	2300
-1600	-600.	400.	1400	[2354]
-1500	-500.	500.	1500	
-1400	-400.	600.	1600	
-1300	-300.	700.	1700	
-1200	-200.	800.	1800	



Line 9800 E

DEEP WELL DAM EL 2016 - S.A.

for

CRAE

Field Job 252
ZONGE ZPLOT 7.10
Plotted 05 Feb 95

CSAMT SURVEY DATA
STATIC-CORRECTED RES.

5-PT. TMA FILTER AT 4096 HZ
ZSTATIC v2.00a 02/05/95

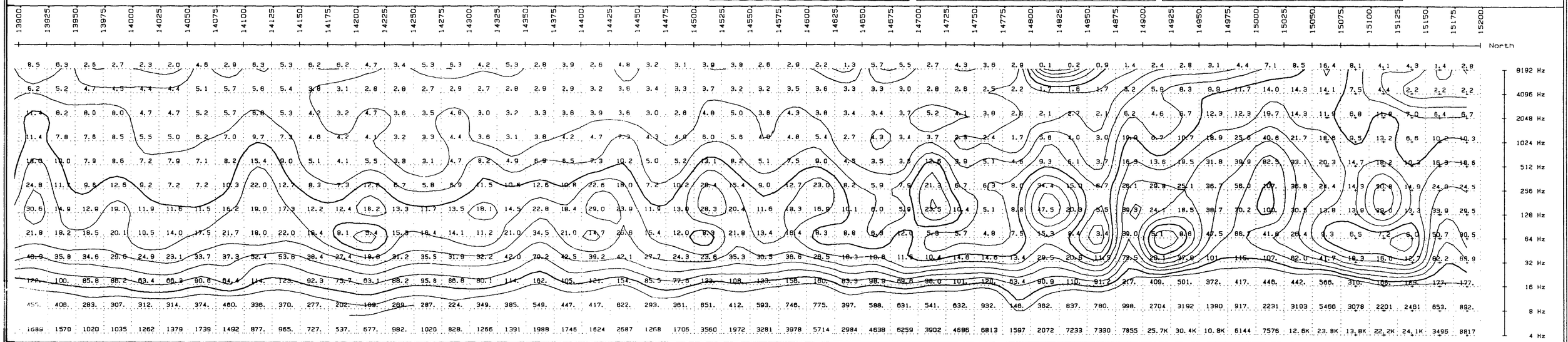
RECEIVER DATA
Length = 25 m Line = North
Spacing= 25 m Dipole= 351

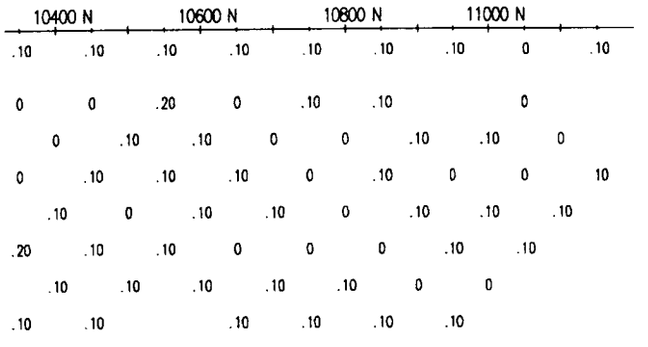
Surveyed= 1/95

TRANSMITTER DATA
Length = 1500 m
Orient. = 026
Distance= 6000 m
Rx to Tx= 081

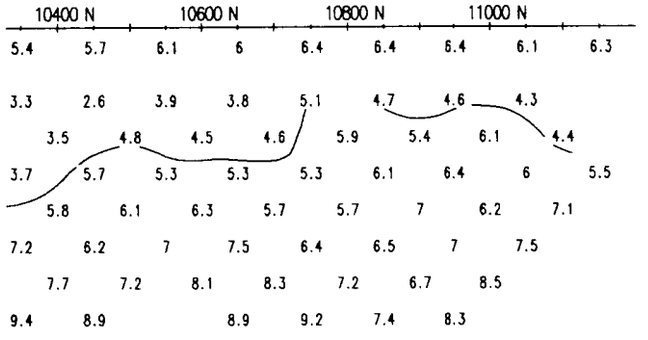
[Plot limits] and LOGARITHMIC CONTOURS
(Interval: 0.20)

(.115)	10.0	1000
.158	15.8	1585
.251	25.1	2512
.398	39.8	3981
.631	63.1	6310
1.00	100.	10.0K
1.58	158.	15.8K
2.51	251.	25.1K
3.98	398.	(32.9K)
6.31	631.	

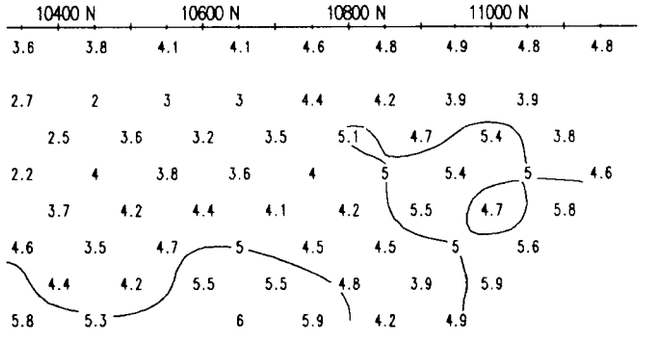




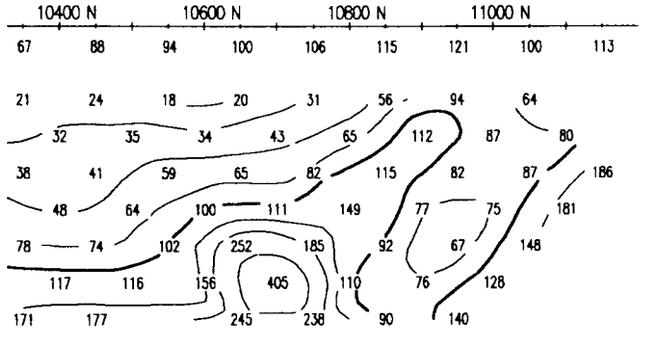
SD: RAW PHASE
(mrad)



RAW PHASE
(mrad)

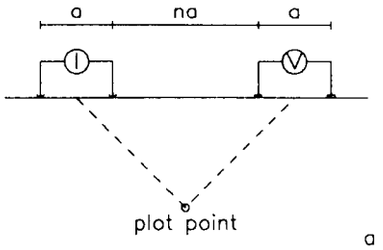


3 PT DC PHASE
(mrad)



RESISTIVITY
(ohm-m)

Dipole-Dipole Array

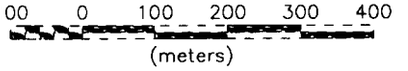


a = 100.0 m

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5 10, . .

Linear Contours 0.0, 5.0, 10.0, 15.0, 20.0, . .

Scale 1:10000



CRA EXPLORATION PTY LIMITED

BILLEROO CARBONATITE

Line 12600E

DEEP WELL DAM EL 2016 - S.A.

Induced Polarization Survey

AUTHOR	DRAWN	DATE	SCALE	REPORT
Zonge	Zonge	10/08/95	1:10000	
REF.		FILE	PLAN No.	

APPENDIX V

TEM Survey Data

Note that for each TEM traverse, there are three profiles showing the EM response, one for the Zonge antenna and one for both the CRAE94 antenna gained and ungained.

Line 4600N
DEEPWELL
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 18 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

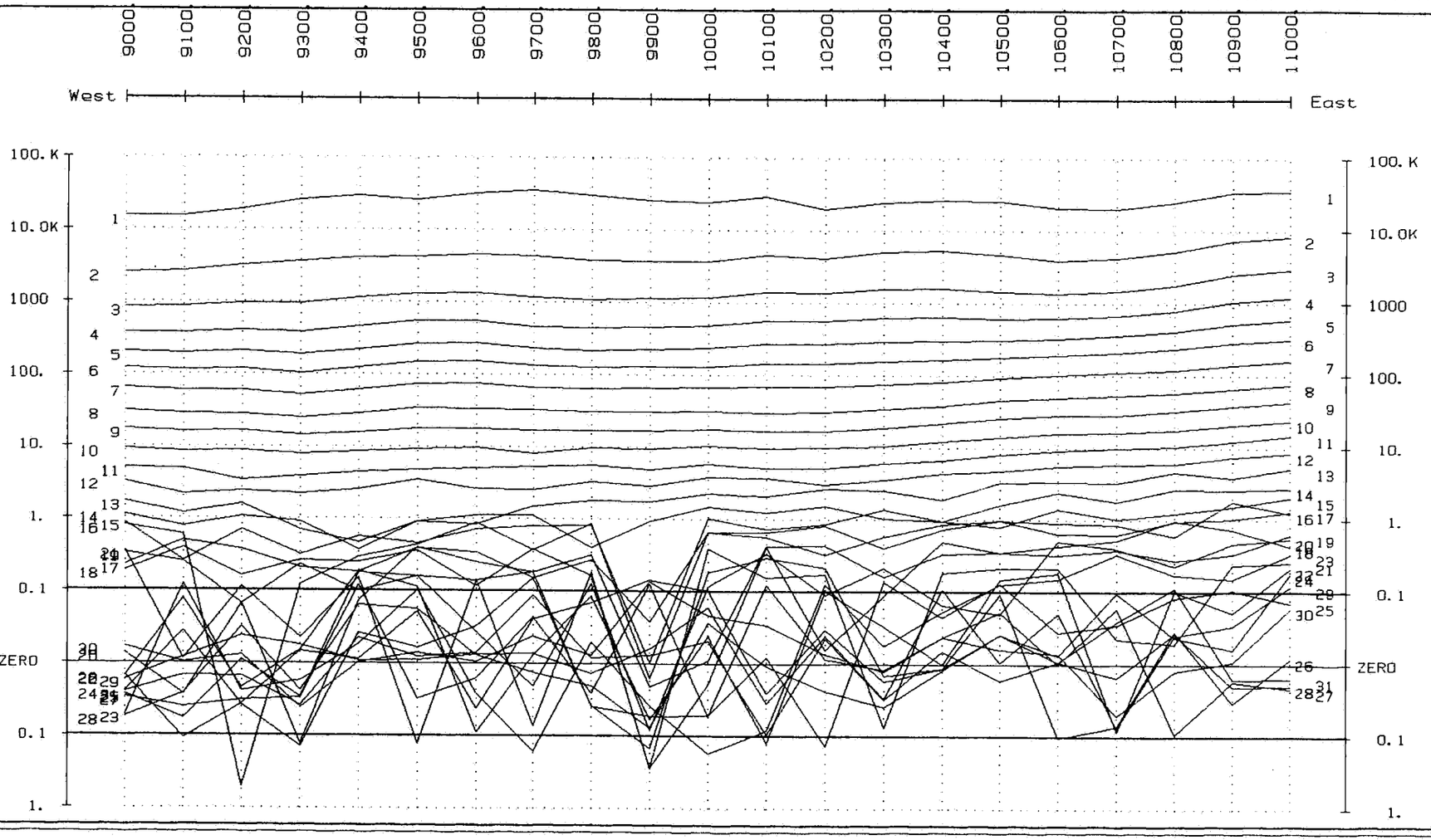
Zonge coil: 10 000 sq m

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m	W31:	.7716	
W 2:	1.003m	W12:	10.20m	W22:	97.64m			
W 3:	1.490m	W13:	12.86m	W23:	.1230			
W 4:	1.976m	W14:	16.01m	W24:	.1545			
W 5:	2.462m	W15:	19.88m	W25:	.1941			
W 6:	2.949m	W16:	24.71m	W26:	.2443			
W 7:	3.669m	W17:	30.97m	W27:	.3074			
W 8:	4.644m	W18:	39.18m	W28:	.3868			
W 9:	5.618m	W19:	49.35m	W29:	.4871			
W10:	6.821m	W20:	61.91m	W30:	.6128			



Line 4600N
DEEPWELL
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 18 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

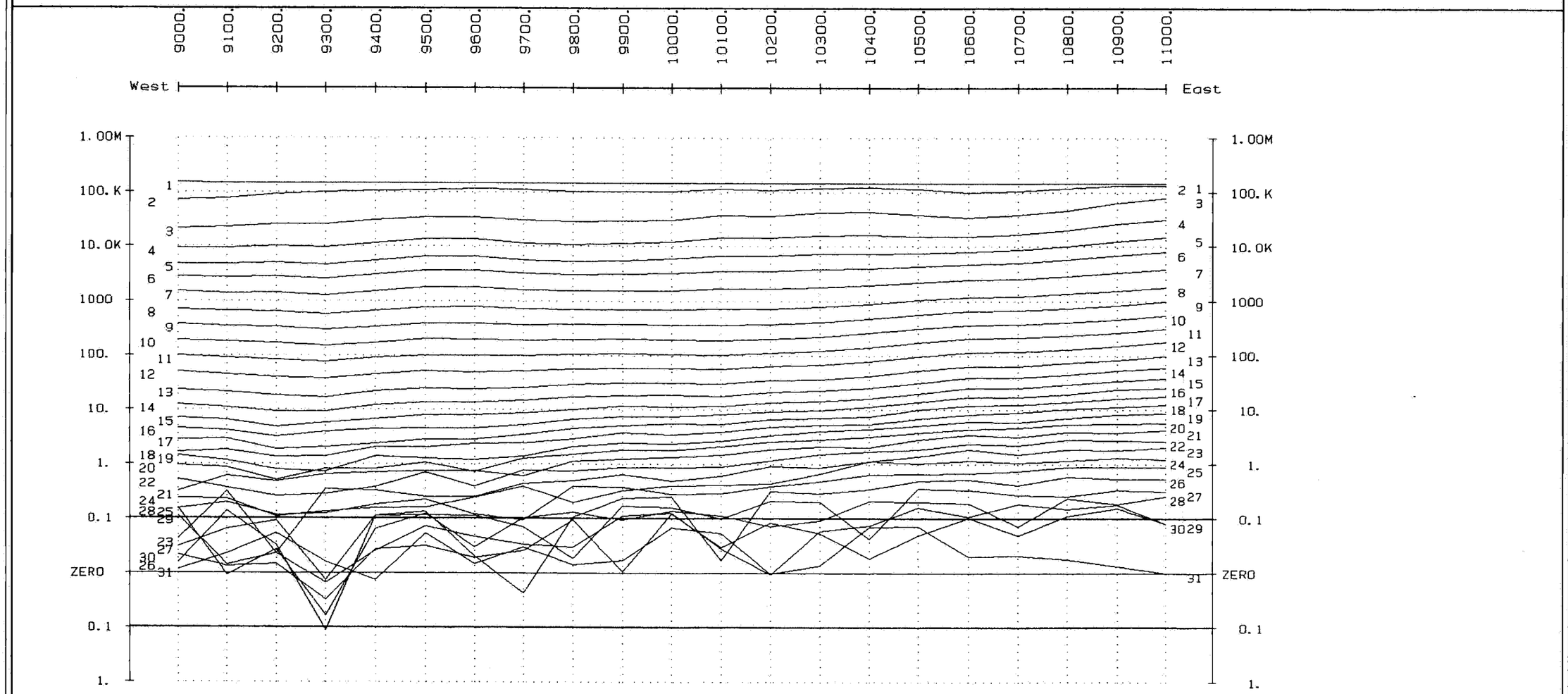
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 000

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m	W31:	.7716
W 2:	1.003m	W12:	10.20m	W22:	97.64m		
W 3:	1.490m	W13:	12.86m	W23:	.1230		
W 4:	1.976m	W14:	16.01m	W24:	.1545		
W 5:	2.462m	W15:	19.88m	W25:	.1941		
W 6:	2.949m	W16:	24.71m	W26:	.2443		
W 7:	3.669m	W17:	30.97m	W27:	.3074		
W 8:	4.644m	W18:	39.18m	W28:	.3868		
W 9:	5.618m	W19:	49.35m	W29:	.4871		
W10:	6.821m	W20:	61.91m	W30:	.6128		



Line 4600N
DEEPWELL
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 18 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

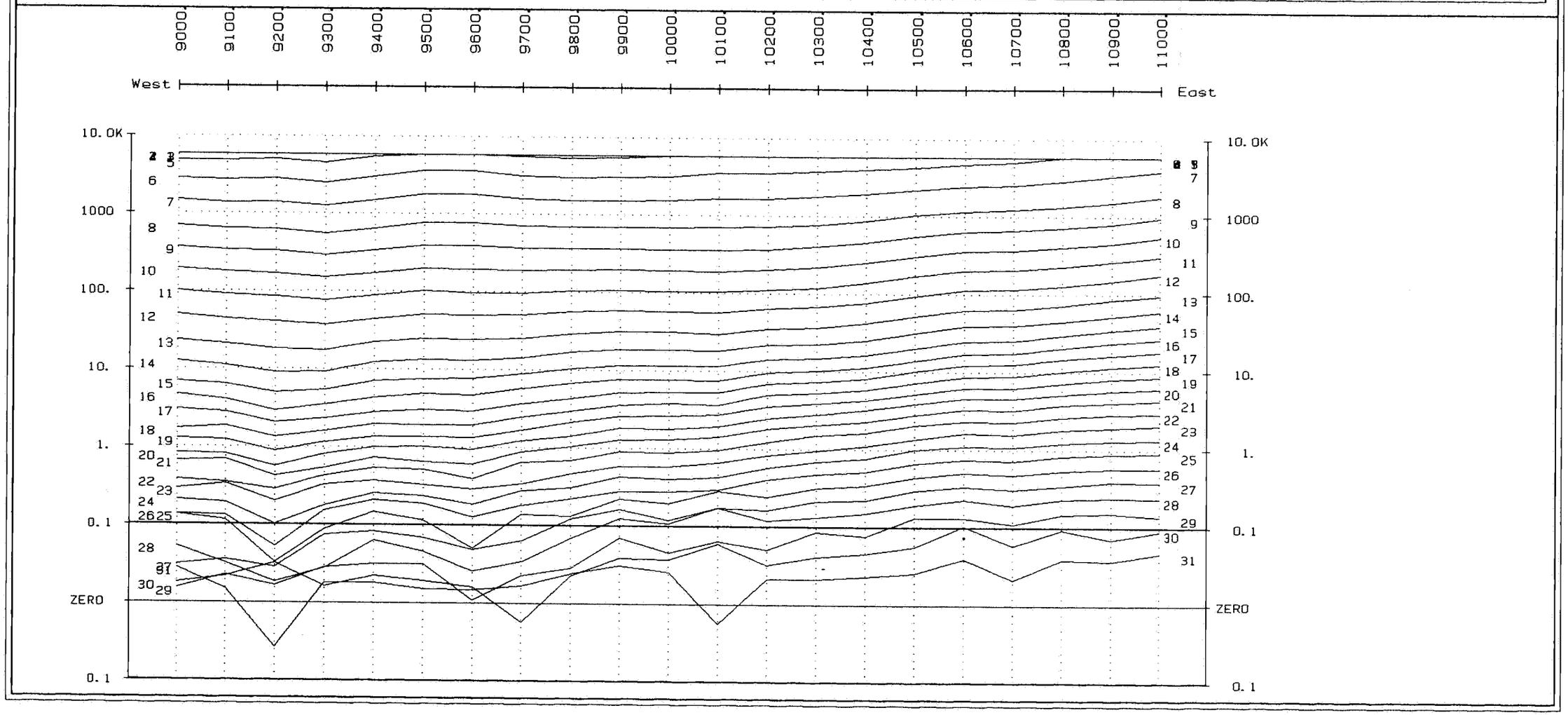
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 050

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m	W31:	.7716
W 2:	1.003m	W12:	10.20m	W22:	97.64m		
W 3:	1.490m	W13:	12.86m	W23:	.1230		
W 4:	1.976m	W14:	16.01m	W24:	.1545		
W 5:	2.462m	W15:	19.88m	W25:	.1941		
W 6:	2.949m	W16:	24.71m	W26:	.2443		
W 7:	3.669m	W17:	30.97m	W27:	.3074		
W 8:	4.644m	W18:	39.18m	W28:	.3868		
W 9:	5.618m	W19:	49.35m	W29:	.4871		
W10:	6.821m	W20:	61.91m	W30:	.6128		



Line 5000N
DEEPWELL DAM
for
CRA EXPLORATION Pty Ltd

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

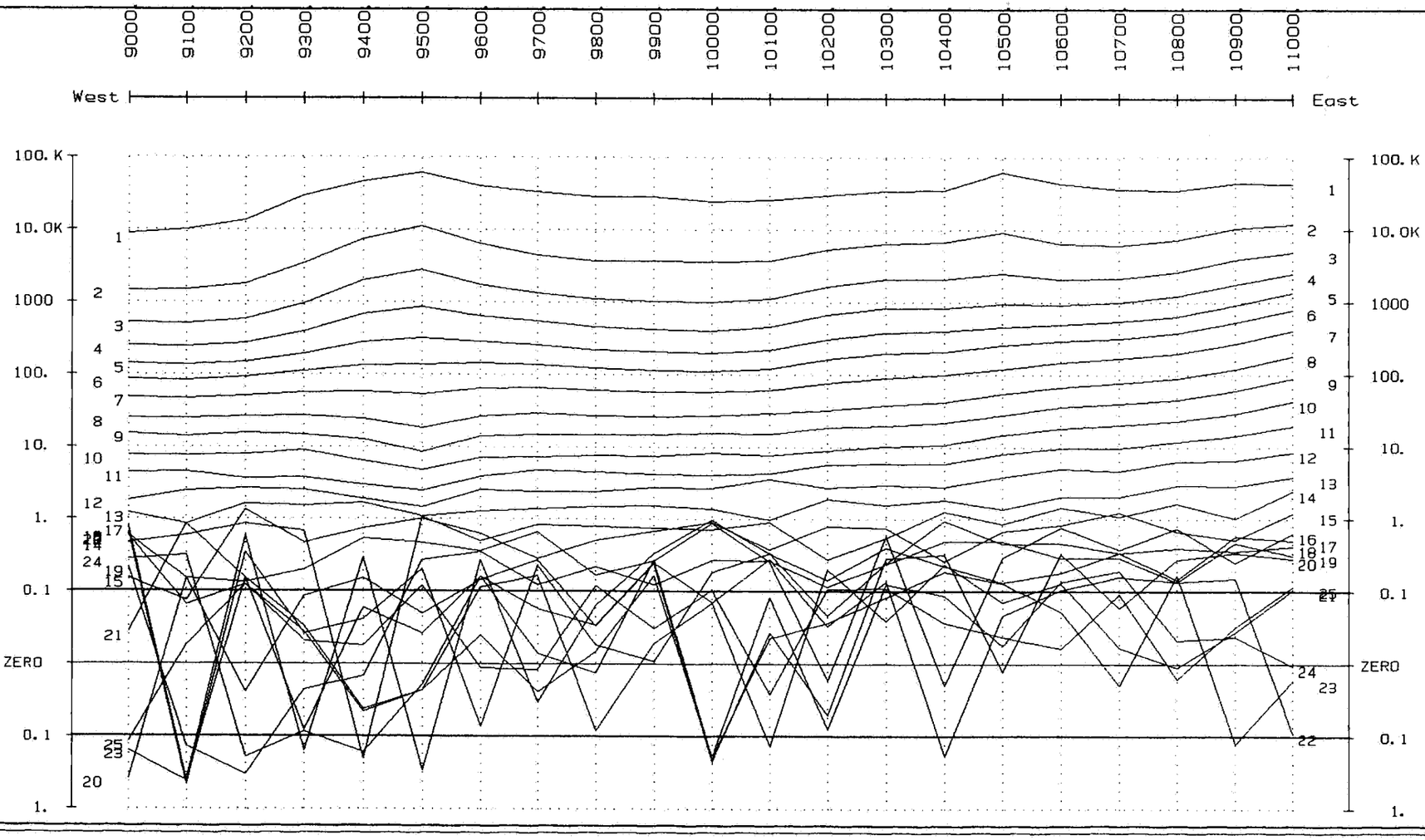
Zonge coil: 10 000 sq m

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m
W 2:	1.003m	W12:	10.20m	W22:	97.64m
W 3:	1.490m	W13:	12.86m	W23:	.1230
W 4:	1.976m	W14:	16.01m	W24:	.1545
W 5:	2.462m	W15:	19.88m	W25:	.1941
W 6:	2.949m	W16:	24.71m		
W 7:	3.669m	W17:	30.97m		
W 8:	4.644m	W18:	39.18m		
W 9:	5.618m	W19:	49.35m		
W10:	6.821m	W20:	61.91m		



Line 5000N
DEEPWELL DAM
for
CRA EXPLORATION Pty Ltd

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

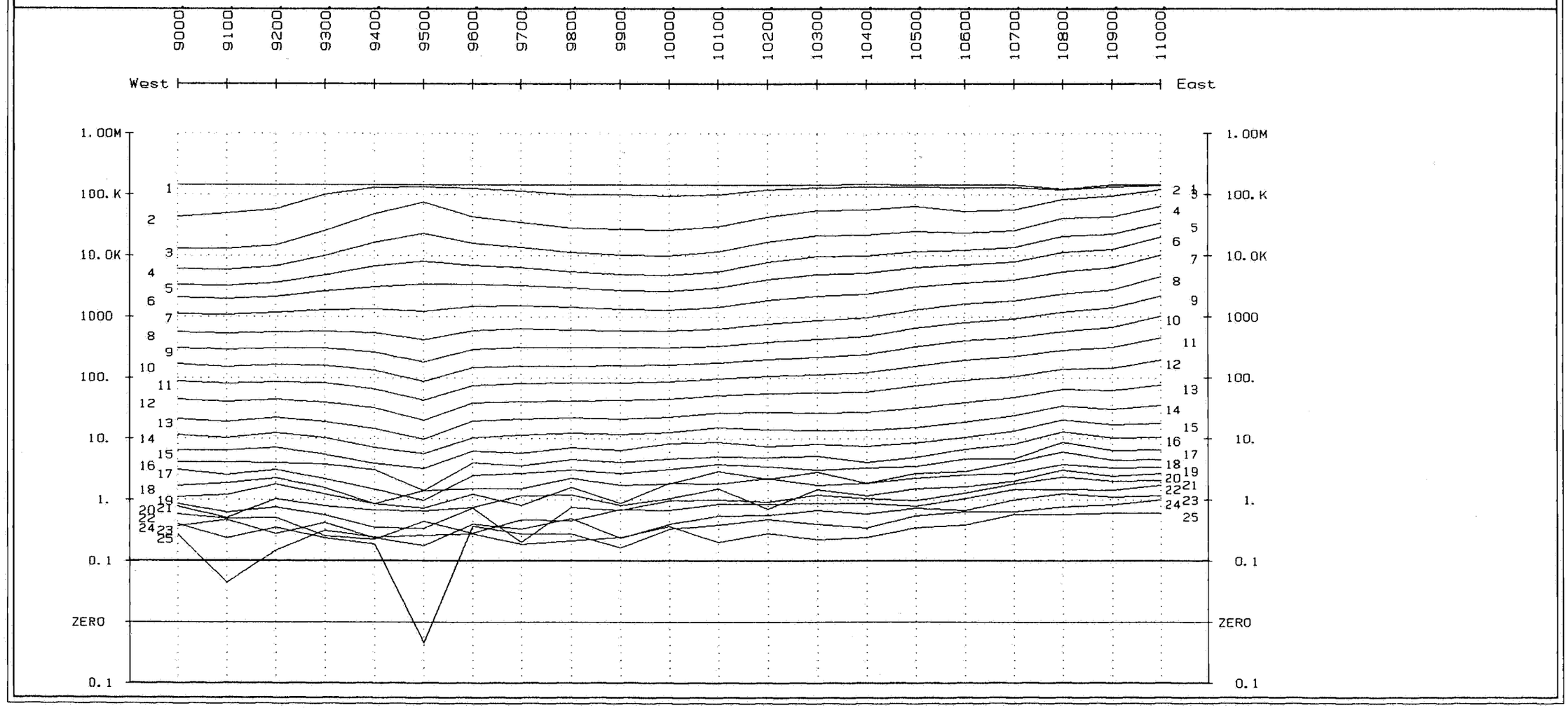
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 000

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m
W 2:	1.003m	W12:	10.20m	W22:	97.64m
W 3:	1.490m	W13:	12.86m	W23:	.1230
W 4:	1.976m	W14:	16.01m	W24:	.1545
W 5:	2.462m	W15:	19.88m	W25:	.1941
W 6:	2.949m	W16:	24.71m		
W 7:	3.669m	W17:	30.97m		
W 8:	4.644m	W18:	39.18m		
W 9:	5.618m	W19:	49.35m		
W10:	6.821m	W20:	61.91m		



Line 5000N
DEEPWELL DAM
for
CRA EXPLORATION Pty Ltd

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

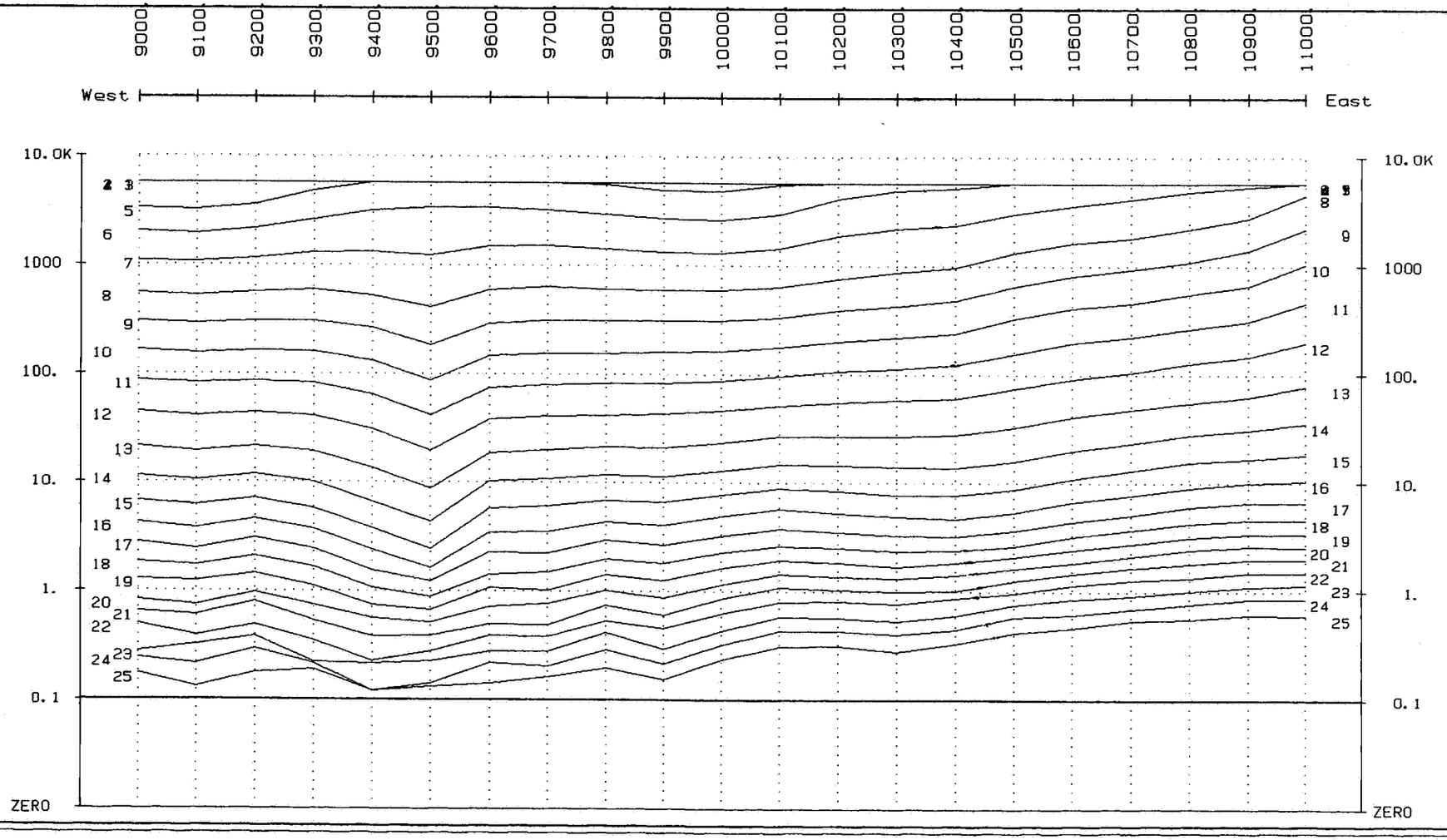
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 050

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	516.8u	W11:	8.284m	W21:	77.63m
W 2:	1.003m	W12:	10.20m	W22:	97.64m
W 3:	1.490m	W13:	12.86m	W23:	.1230
W 4:	1.976m	W14:	16.01m	W24:	.1545
W 5:	2.462m	W15:	19.88m	W25:	.1941
W 6:	2.949m	W16:	24.71m		
W 7:	3.669m	W17:	30.97m		
W 8:	4.644m	W18:	39.18m		
W 9:	5.618m	W19:	49.35m		
W10:	6.821m	W20:	61.91m		



Line 5000N
CLAYPAN SOUTH
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

cp

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

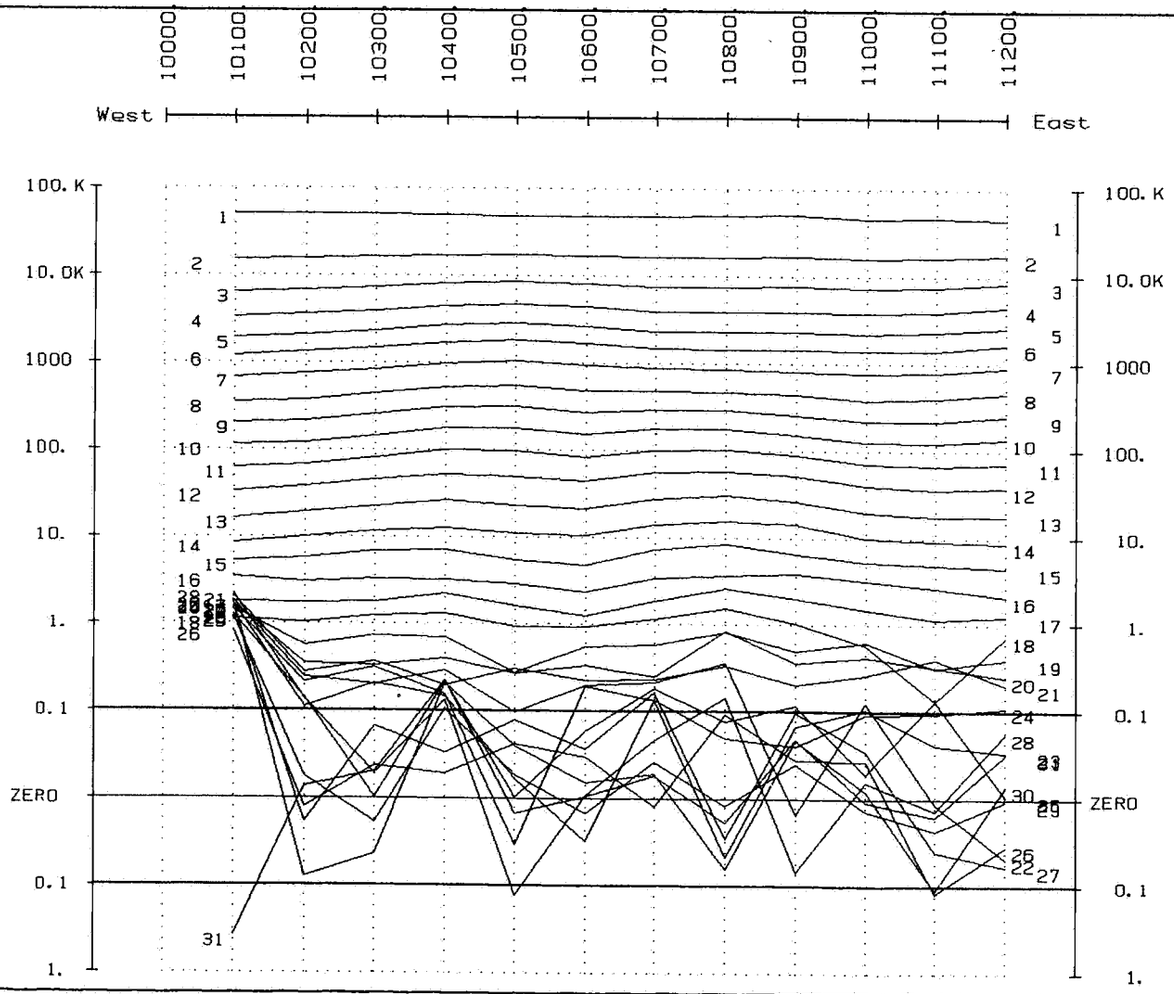
Zonge coil: 10 000 sq m

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	581.8u	W11:	8.349m	W21:	77.69m	W31:	.7717
W 2:	1.068m	W12:	10.26m	W22:	97.71m		
W 3:	1.555m	W13:	12.93m	W23:	.1231		
W 4:	2.041m	W14:	16.08m	W24:	.1545		
W 5:	2.527m	W15:	19.94m	W25:	.1941		
W 6:	3.014m	W16:	24.78m	W26:	.2444		
W 7:	3.734m	W17:	31.04m	W27:	.3075		
W 8:	4.709m	W18:	39.25m	W28:	.3869		
W 9:	5.683m	W19:	49.42m	W29:	.4872		
W10:	6.886m	W20:	61.98m	W30:	.6129		



Line 5000N
CLAYPAN SOUTH
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

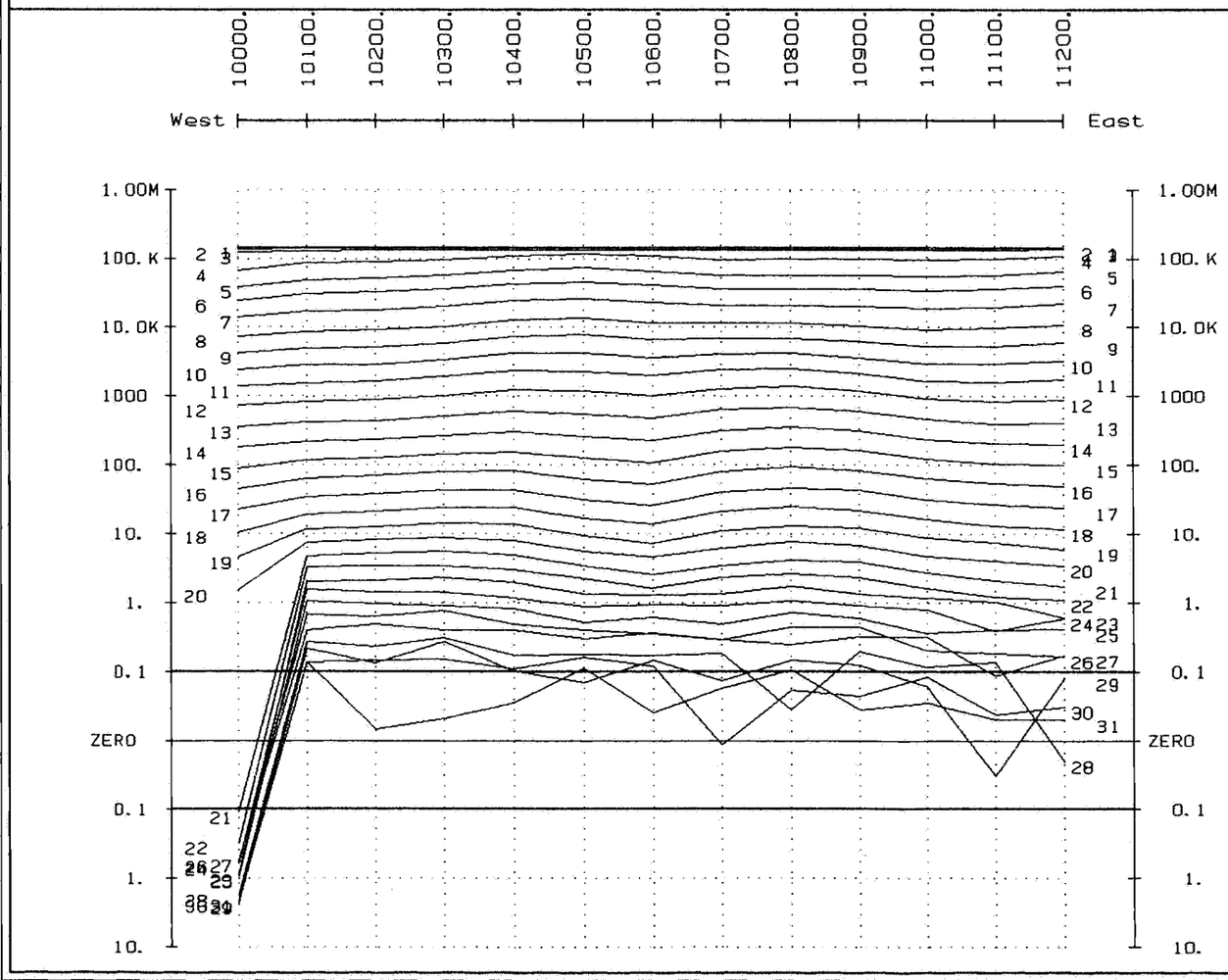
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 000

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	581.8u	W11:	8.349m	W21:	77.69m	W31:	.7717
W 2:	1.068m	W12:	10.26m	W22:	97.71m		
W 3:	1.555m	W13:	12.93m	W23:	.1231		
W 4:	2.041m	W14:	16.08m	W24:	.1545		
W 5:	2.527m	W15:	19.94m	W25:	.1941		
W 6:	3.014m	W16:	24.78m	W26:	.2444		
W 7:	3.734m	W17:	31.04m	W27:	.3075		
W 8:	4.709m	W18:	39.25m	W28:	.3869		
W 9:	5.683m	W19:	49.42m	W29:	.4872		
W10:	6.886m	W20:	61.98m	W30:	.6129		



Line 5000N
CLAYPAN SOUTH
for
C. R. A. EXPLORATION

Field Job 268
ZONGE ZPLOT 7.10
Plotted 10 Sep 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE uV/A

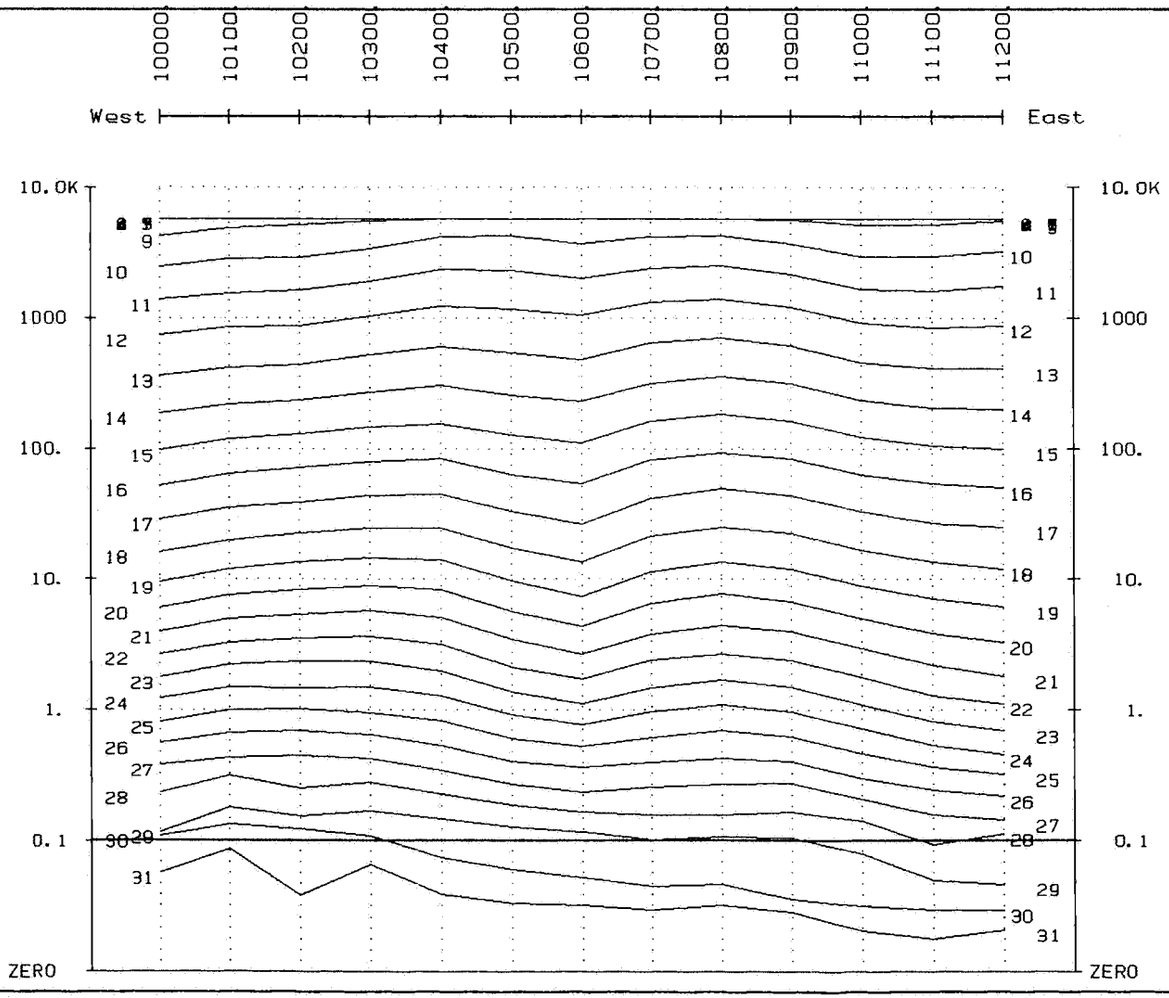
CRA coil: 250 000 sq m
preamp 10KHz. Gains set to 050

SURVEY LINE DATA
Line Orient= East

Survey Date= JULY 1995

Window NUMBER and TIME (seconds)

W 1:	581.8u	W11:	8.349m	W21:	77.69m	W31:	.7717		
W 2:	1.068m	W12:	10.26m	W22:	97.71m				
W 3:	1.555m	W13:	12.93m	W23:	.1231				
W 4:	2.041m	W14:	16.08m	W24:	.1545				
W 5:	2.527m	W15:	19.94m	W25:	.1941				
W 6:	3.014m	W16:	24.78m	W26:	.2444				
W 7:	3.734m	W17:	31.04m	W27:	.3075				
W 8:	4.709m	W18:	39.25m	W28:	.3869				
W 9:	5.683m	W19:	49.42m	W29:	.4872				
W10:	6.886m	W20:	61.98m	W30:	.6129				



APPENDIX VI

Traverse Line Lag

Deep Well Dam EL 2016 - CSAMT Traverse Line Lag

SAMPLENO	TRAVERSE NO	EAST	NORTH	EAST(AMG)	NORTH(AMG)	ZONE	DPO	FRACTION	DESCRIPTION	RECOVERY	%LAG
3943183	2	950	6478400	400850.0	6478400.0	54	54361	-7mm+2.5mm	Claypan in sandy silty plains.	VG	3
3943184	2	950	6478000	400850.0	6478000.0	54	54361	-7mm+2.5mm	Claypan in sandy silty plains.	VG	2
3943260	3	9800	14000	409800.0	6474000.0	54	54361	-7mm+2.5mm	Silty clayey plain with abundant quartz gravel and scree.	VG	5
METHOD											
LDETECTION											
UDETECTION											
UNITS											

LAB: ANALABS Perth

SAMPLENO	Ag	As	Au	Ba	Bi	Ca	Cd	Ce	Ce	Co	Cr	Cu	Eu	Fe	K	La	La	Mg	Mn	Mo	Na	Ni	P	Pb
3943183	0.2	43	13	1290	3.2	1740	1.0		105.00	23.0	302	84	2.71	453800	6430		57.60	1020	819	116.0	1390	40	995	86
3943184	0.2	50	9	2930	2.2	2150	86.7		193.00	83.9	328	107	3.52	474800	5750		113.00	1160	1030	15.3	1150	45	901	98
3943260	0.3	68	1	3110	10.2	5320	0.4		284.00	55.4	151	204	6.99	506900	5400		162.00	1360	1690	13.1	1000	83	2030	95
METHOD	GS201	GS201	GS333	GI201	GS201	GI201	GS201	GI201	GS201	GS201	GI201	GI201	GS201	GI201	GI201	GI201	GS201	GI201	GI201	GS201	GI201	GI201	GI201	GS201
LDETECTION	0.1	1	1	5	0.1	50	0.1	15	0.05	0.2	10	5	0.05	100	500	5	0.05	20	15	0.1	50	10	30	1
UDETECTION	500.0	1000	1000	10000	1000.0	400000	1000.0	10000	1000.00	2000.0	20000	10000	500.00	999999	200000	10000	1000.00	400000	50000	1000.0	200000	10000	100000	2000
UNITS	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

SAMPLENO	Pd	Pt	Sb	Th	Ti	U	W	Zn	+2mm	Sinks
3943183	0.9	2.7	2.5	70.20	5260	10.90	6.1	50	3877	75.02
3943184	0.8	2.7	2.5	74.40	4800	20.30	4.7	51	5746	96.53
3943260	0.9	1.7	1.8	36.90	1670	22.00	5.5	169	3963	50.42
METHOD	GS333	GS333	GS201	GS201	GI201	GS201	GS201	GI201	MT830	MT830
LDETECTION	0.5	0.5	0.1	0.05	10	0.05	0.1	5	1	0.01
UDETECTION	1000.0	1000.0	1000.0	1000.00	20000	1000.00	1000.0	10000	0	10000.00
UNITS	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	g	g

APPENDIX VII
RAB Drillhole Ledger

Deep Well Dam EL 2016 - RAB Drillhole Ledger

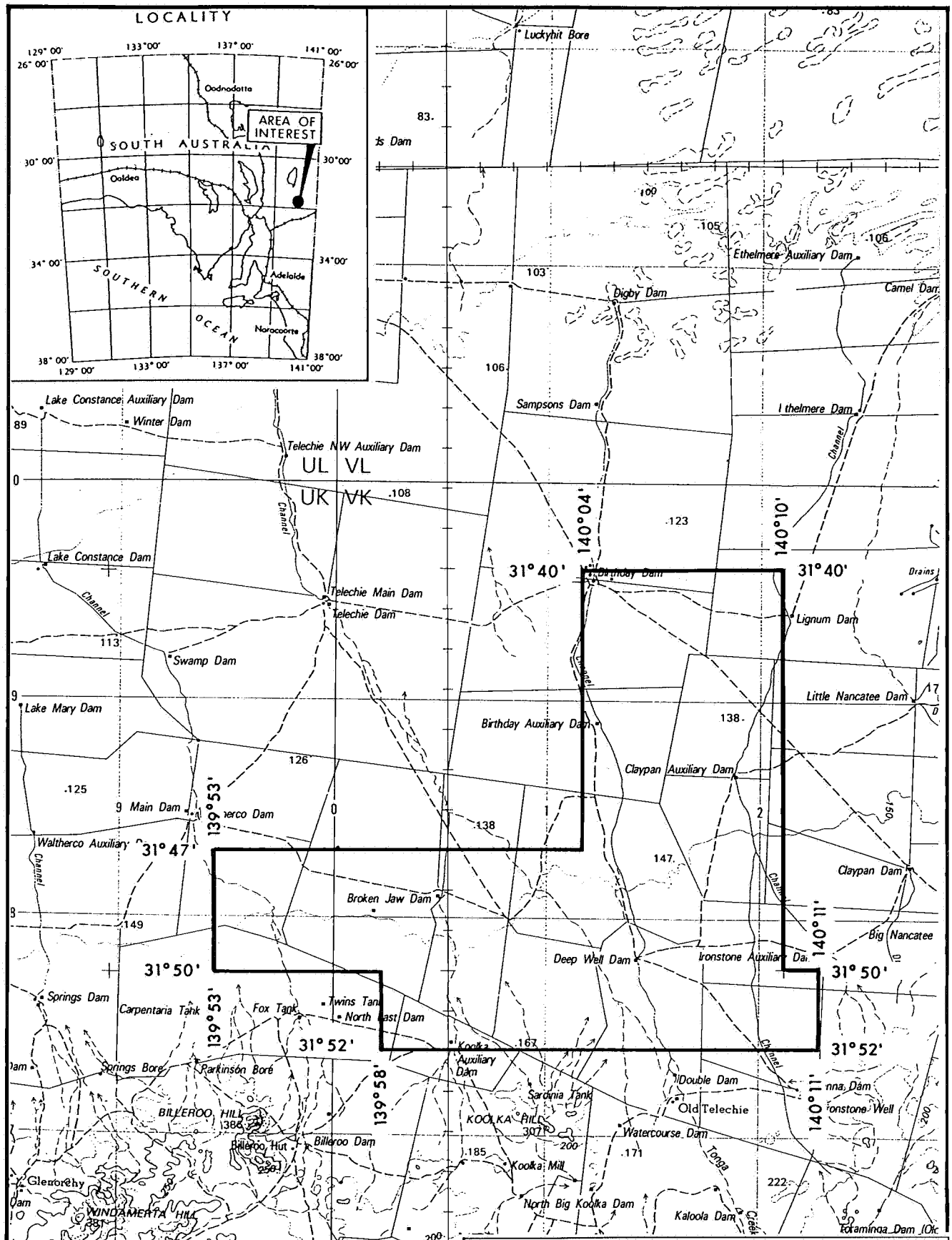
SAMPLE NO	HOLE	LOCAL E	LOCAL N	AMG E	AMG N	DPO	PROSPECT:	FROM	TO	COLOUR	DESCRIPTION	SI
3944000	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	0	4	red brown	sand and clay and gravel	200
5238001	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	4	8	brown	sand and clay and quartz lithic gravel	340
5238002	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	8	12	brown	poorly consolidated sand and gravel, clay matrix	250
5238003	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	12	16	l grey	poorly consolidated sand and gravel, clay matrix	40
5238004	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	16	20	brown	poorly consolidated sand and gravel, clay matrix/polymictic gravel	800
5238005	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	20	24	brown	sandstone/yellow and red clays	140
5238006	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	24	28	l brown/pink	palid/pink clays ferruginous portions	30
5238007	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	28	32	pink	palid/pink clays ferruginous portions/weathered mafic	30
5238008	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	32	36	brown	weathered mafic	80
5238009	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	36	40	grey	fine grained mafic, thin calcite veining	80
5238010	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	40	44	grey/brown grey	fine grained mafic, thin calcite veining/weathered mafic (fracture zone)	80
5238011	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	44	45	grey	fine grained mafic, thin calcite veining	100
5238012	RA95DW001	11590	7800	411579	6477790	54371	Deep Well	45	46	grey	fine grained mafic, thin calcite veining	200
5238013	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	0	4	brown/red brown	sand and clay	150
5238014	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	4	8	brown/red brown	sand and clay/poorly consolidated sandstone/gravel with lag	240
5238015	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	8	12	brown	sandstone and gravel/polymictic gravel	600
5238016	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	12	16	yellow brown	clayey sandstone	20
5238017	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	16	20	brown	clayey sandstone/polymictic gravel	1100
5238018	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	20	24	brown	clayey sandstone	50
5238019	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	24	28	yellow	palid clay, talc rich after pelite	10
5238020	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	28	32	white	palid clay, talc rich after pelite	10
5238021	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	32	36	white/red brown	palid clay, talc rich after pelite/partly ferruginous	10
5238022	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	36	38	red brown	ferruginous pelite	10
5238023	RA95DW002	11590	7600	411579	6477590	54371	Deep Well	38	39	red brown	ferruginous pelite	10
5238024	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	0	4	red brown	clay and sand	200
5238025	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	4	8	brown	poorly consolidated clayey sandstone	100
5238026	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	8	12	brown/grey brown	poorly consolidated clayey sandstone/soft clay	250
5238027	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	12	16	yellow brown	poorly consolidated clayey sandstone	30
5238028	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	16	20	brown	poorly consolidated clayey sandstone	300
5238029	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	20	24	brown	poorly consolidated clayey sandstone	90
5238030	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	24	28	brown/white	poorly consolidated clayey sandstone/palid clay after pelite	10
5238031	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	28	32	white	palid clay after pelite	10
5238032	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	32	36	red	red clay after pelite	20
5238033	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	36	40	red	ferruginous pelite	20
5238034	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	40	44	red	ferruginous pelite	20
5238035	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	44	48	red/green brown	ferruginous pelite/weathered pelite	20
5238036	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	48	50	green	weathered pelite	40
5238037	RA95DW003	11590	8000	411579	6477990	54371	Deep Well	50	51	green	weathered pelite	20
SCHEME:												
DL:												
UNITS:												

LAB: AMDEL Adelaide

Deep Well Dam EL 2016 - RAB Drillhole Ledger

SAMPLE NO	Ag	As	Au	Ba	Bi	Ca	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Th	U	Zn
3944000	0.3	7.0	1	420	0.3	18300	8	76	21	26000	9700	6600	340	1.3	13900	17	40	8.50	1.70	44
5238001	0.3	6.0	-1	400	0.3	18600	8	69	18	33100	8300	6300	360	1.4	13200	15	15	10.00	1.80	36
5238002	0.2	4.5	-1	200	0.3	3000	4	150	12	28200	7700	2300	55	1.8	7000	7	10	11.00	2.20	13
5238003	0.2	1.5	-1	740	0.2	11000	5	74	9	14900	7600	2500	145	1.0	7200	5	15	10.50	1.80	12
5238004	0.3	11.0	-1	380	0.5	3000	2	74	17	59600	7500	1800	80	3.5	4800	8	25	17.50	3.70	13
5238005	0.4	12.0	-1	340	0.3	780	5	82	34	68500	5600	1100	50	1.5	2600	36	10	27.50	6.00	13
5238006	0.4	6.5	-1	580	0.2	2800	4	75	34	55600	6300	1000	35	1.5	2300	61	10	12.50	4.60	15
5238007	0.4	9.0	-1	1200	0.1	540	9	61	51	76700	5000	700	45	0.8	2200	86	35	12.50	6.00	12
5238008	0.2	12.0	-1	700	0.1	500	7	47	41	61500	3600	440	75	1.2	1900	68	10	20.50	5.00	10
5238009	0.3	10.5	-1	420	0.1	1000	2	44	15	38400	14600	900	30	0.6	2400	25	15	31.00	5.50	8
5238010	0.3	6.5	-1	680	0.1	1700	3	58	47	55300	17000	8600	75	0.7	2000	55	-5	13.50	7.00	17
5238011	0.2	4.0	-1	740	-0.1	1200	7	91	110	43500	11700	12300	80	0.9	8500	74	-5	5.00	12.00	21
5238012	0.2	7.0	-1	640	-0.1	760	4	55	43	43900	12000	5100	50	1.7	6000	39	-5	16.00	4.70	13
5238013	0.3	8.5	-1	500	0.3	25400	9	61	22	29500	12600	7500	300	1.2	14900	18	10	11.50	2.30	54
5238014	0.4	6.5	-1	320	0.3	9900	8	110	17	31100	11600	5400	240	1.8	14600	13	10	12.00	2.30	35
5238015	0.4	12.0	-1	320	0.6	10900	5	73	17	48800	9900	3000	65	2.4	5900	8	20	15.50	3.00	22
5238016	0.5	3.5	-1	180	0.3	7600	4	100	12	21800	8000	2500	60	2.0	6300	7	10	18.00	3.10	15
5238017	0.4	14.0	-1	380	0.6	4800	3	81	16	61800	6900	1700	45	3.0	3700	6	25	20.00	4.00	14
5238018	0.6	4.0	-1	820	0.3	7500	4	100	14	25200	11700	2900	50	2.5	4100	7	10	16.50	3.20	12
5238019	0.8	3.0	-1	1900	0.2	540	3	88	28	19000	19100	3700	30	1.2	2300	20	-5	14.50	3.20	6
5238020	0.9	4.5	-1	660	0.2	380	3	87	43	12600	18200	2400	20	0.7	2100	34	-5	10.00	3.20	5
5238021	0.9	5.0	-1	1100	0.2	220	3	95	33	22200	19600	2600	30	1.4	1600	16	-5	18.50	4.40	6
5238022	0.9	7.5	-1	1100	0.5	300	5	105	125	38500	22900	2600	35	1.8	1700	21	-5	40.50	5.50	7
5238023	0.8	12.5	-1	340	0.3	640	5	130	300	71800	11300	1400	35	3.0	2200	49	-5	28.00	7.00	11
5238024	0.5	6.5	-1	400	0.3	10700	11	72	29	32300	15200	8400	380	1.5	14600	22	15	14.00	3.20	63
5238025	0.6	6.5	-1	560	0.4	15600	13	62	30	36300	15900	8600	460	1.5	13800	20	20	18.50	2.90	57
5238026	0.6	5.5	-1	440	0.4	24700	9	88	24	36100	13000	5200	260	1.8	8400	14	15	19.00	3.10	34
5238027	0.6	3.0	-1	520	0.3	10800	3	63	16	25600	10700	3100	70	1.2	6700	8	10	21.00	4.30	17
5238028	0.4	8.5	2	240	0.3	2000	3	140	15	43100	6600	1600	55	3.2	3700	7	15	16.00	4.00	13
5238029	0.4	5.0	-1	195	0.3	3100	-2	73	15	36800	5600	1500	40	1.9	3300	6	10	18.00	3.80	10
5238030	0.7	3.0	-1	145	0.2	6100	3	88	12	11800	4200	1100	55	0.8	2500	52	5	14.00	4.20	14
5238031	0.9	5.5	-1	195	-0.1	1500	6	86	13	9000	5100	860	55	1.8	2200	96	-5	22.00	7.00	18
5238032	0.9	7.5	-1	600	0.2	600	5	105	40	55700	14600	1700	45	1.3	2500	58	-5	19.00	7.50	10
5238033	0.8	4.0	-1	720	0.5	580	7	105	165	55700	17200	2000	75	1.8	2000	24	-5	9.00	5.00	7
5238034	0.8	4.0	-1	680	2.6	1100	6	96	220	47800	16600	1900	80	2.4	2000	18	-5	14.00	5.50	8
5238035	0.8	-0.5	-1	780	2.8	700	12	96	360	43400	13900	4300	280	2.2	1800	24	-5	13.50	7.50	18
5238036	0.7	-0.5	-1	1000	3.2	1000	29	110	600	59300	16700	8700	660	2.0	2600	38	-5	24.00	8.00	37
5238037	0.7	-0.5	-1	980	1.6	640	31	90	700	64600	18500	6800	500	1.8	2000	38	-5	20.50	10.00	31
SCHEME:	IC3M	IC3M	AA9	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E
DL:	0.1	0.5	1	5	0.1	10	2	2	2	100	10	10	5	0.1	10	2	5	0.02	0.02	2
UNITS:	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM

LAB: AMDEL Adelaide

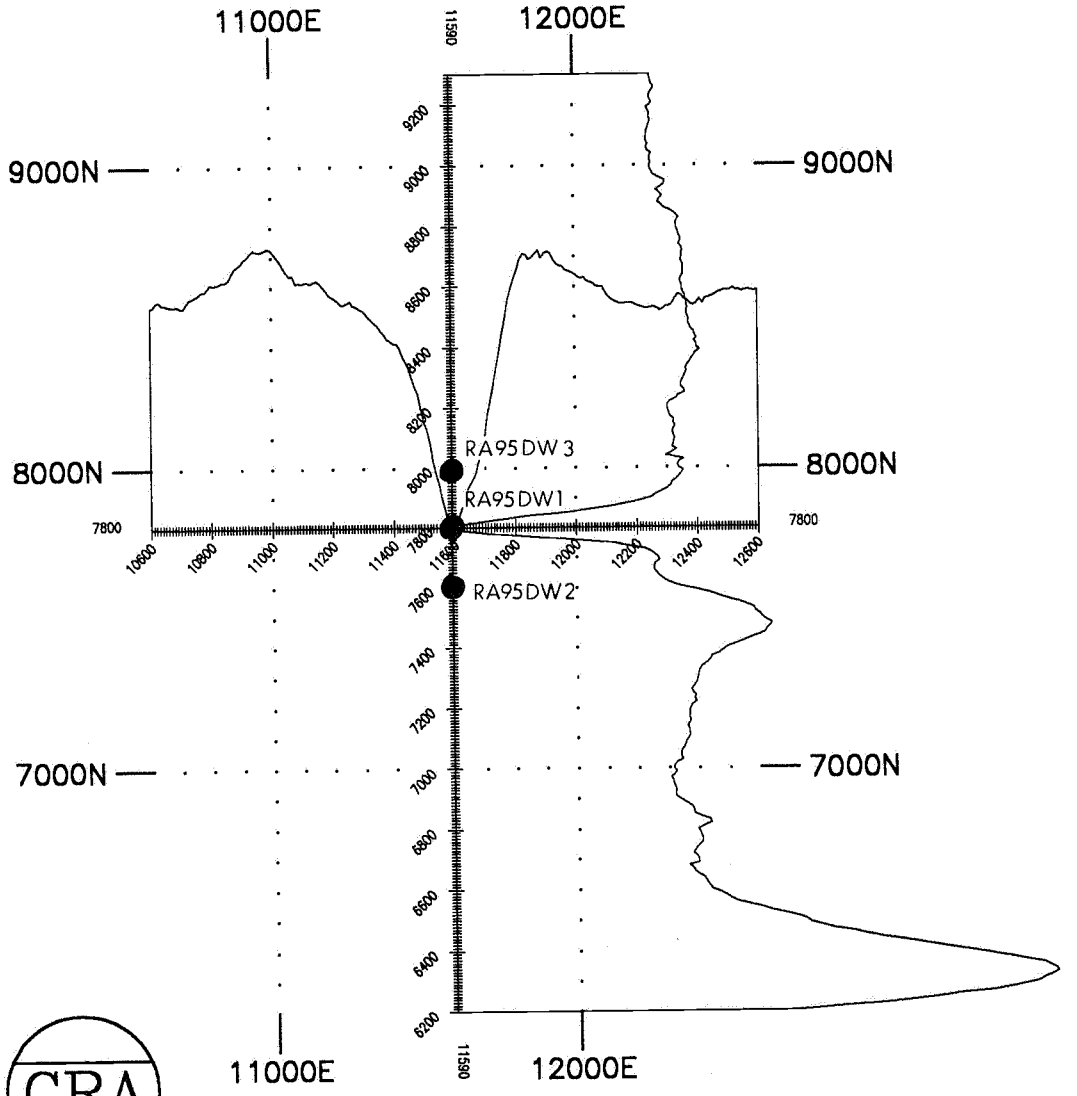


CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016-S.A.
LOCATION PLAN

Area 347 Km²

REFERENCE	CURNAMONA SH 54 - 14		
SCALE	1 : 250000		
AUTHOR	W A S	REPORT	21178
DATE	May '94	PLAN No	SAa 6284



CRA

SPECIFICATIONS

Data:
Ground magnetic data collected at 10 m stations.
No diurnal correction applied.

Profiles:
Scale – 250 nT/cm

Grid Location:
10600E – 412589E, 6477790N AMG
Accuracy – +/– 250 m
Orientation – to grid north AMG

● RAB Drill Hole

Scale 1:25000

500 0 500

(metres)

CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016

REMANENT MAGNETIC ANOMALY

GROUND MAGNETIC PROFILES

REF. CURNAMONA SH 54-14	
SCALE 1:25000	DRAWN MGB
AUTHOR MGB	REPORT 21178
DATE Jul '95	PLAN No SAa 6534

395000.mE 400000.mE 405000.mE 410000.mE 415000.mE 420000.mE 425000.mE 430000.mE

139° 54' 00" E 139° 57' 00" E 140° 00' 00" E 140° 03' 00" E 140° 06' 00" E 140° 09' 00" E 140° 12' 00" E 140° 15' 00" E

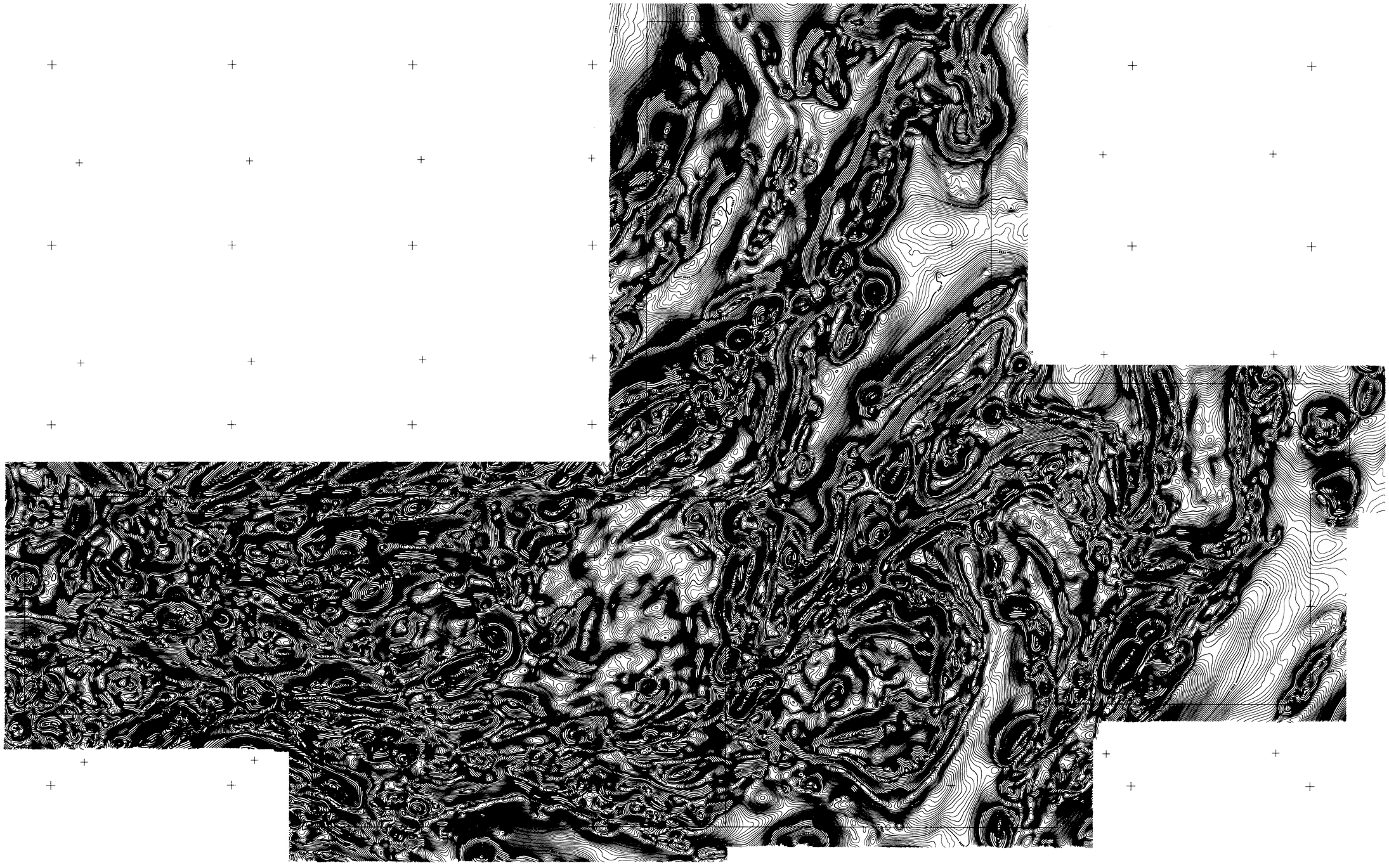
31° 39' 00" S — 6495000.mN

31° 42' 00" S — 6490000.mN

31° 45' 00" S — 6485000.mN

31° 48' 00" S — 6480000.mN

31° 51' 00" S — 6475000.mN



139° 54' 00" E 139° 57' 00" E 140° 00' 00" E 140° 03' 00" E 140° 06' 00" E 140° 09' 00" E 140° 12' 00" E 140° 15' 00" E

395000.mE 400000.mE 405000.mE 410000.mE 415000.mE 420000.mE 425000.mE 430000.mE

AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-WAM
Magnetometer	Scintrex VIW 2321-H8 Cesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	RMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 7.0 metres)
Data Acquisition	RMS DAS-8
Data Recording	DC300 data cartridges
Spectrometer	Geometrics GR820
Crystal Size	33.6lt downward, 4.2lt upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VHS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000-180 degrees
	090-270 degrees
Flight Line Separation	100 metres
Tie Line Direction	090-270 degrees
	000-180 degrees
Tie Line Separation	1000 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics job number	1270
Survey flown	November 1994

TOTAL MAGNETIC INTENSITY CONTOURS

Diurnal variations removed
IGRF(1990) updated to 1994.9 removed
Average survey base station value and a constant of 5000 nT added to datum

Grid mesh 25 x 25 metres

Contour Interval 5, 20, 100, 500 nT

SCALE 1:50,000

1 0 1 2 3 4

Kilometres

MAP GRID ZONE 54

SPHEROID : Australian National
PROJECTION : Universal Transverse Mercator

Kevron Geophysics PTY LTD

N

True North

CRA EXPLORATION Pty Ltd

DEEP WELL

Airborne Geophysical Survey

TMI Contours

COMPILED : Kevron Geophysics Pty. Ltd.	REPORT : 21178
DATE : Nov 1994	PLAN NO. SAa 6535
SCALE 1:50,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-WAM
Magnetometer	Scintrex VIW 2321-H8 Cesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	RMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 7.0 metres)
Data Acquisition	RMS DAS-8
Data Recording	DC300 data cartridges
Spectrometer	Geometrics GR820
Crystal Size	33.6lt downward, 4.2lt upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VHS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000-180 degrees
	090-270 degrees
Flight Line Separation	100 metres
Tie Line Direction	090-270 degrees
	000-180 degrees
Tie Line Separation	1000 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics job number	1270
Survey flown	November 1994

ANALYTIC FUNCTION PROFILES

Diurnal variations removed
IGRF(1990) updated to 1994.9 removed
Average survey base station value added to datum

Datum Base Value 0 nT
Vertical Scale 5 nT /m/cm

SCALE 1:50,000
1 0 1 2 3 4
Kilometres
MAP GRID ZONE 54

SPHEROID : Australian National
PROJECTION : Universal Transverse Mercator

Kevron Geophysics pty ltd

N
True North

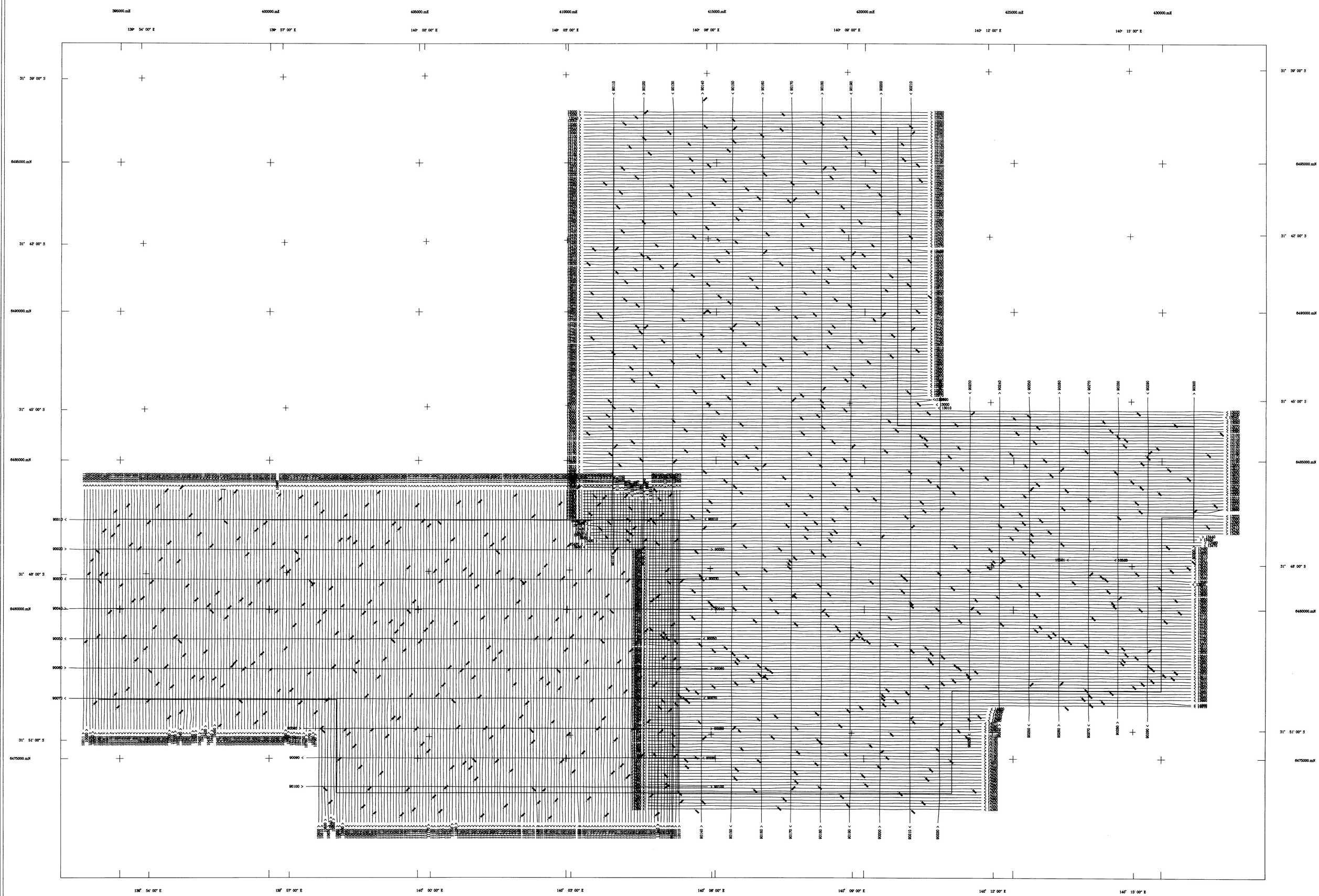
CRA EXPLORATION Pty Ltd

DEEP WELL

Airborne Geophysical Survey

Analytic Function Profiles

COMPILED : Kevron Geophysics Pty. Ltd.	REPORT : 2117 8
DATE : Nov 1994	PLAN NO. SAa 6536
SCALE 1:50,000	



AIRBORNE SURVEY EQUIPMENT

Aircraft	Rockwell Aerocommander 500S VH-WAM
Magnetometer	Scintrex VIW 2321-H8 Cesium Vapour
Magnetometer Resolution	0.001 nT
Magnetometer Compensation	RMS AADC operating in real time
Magnetometer Sample Interval	0.1 seconds (approx 7.0 metres)
Data Acquisition	RMS DAS-8
Data Recording	DC300 data cartridges
Spectrometer	Geometrics GR820
Crystal Size	33.6lt downward, 4.2lt upward arrays
Spectrometer Sample Interval	1.0 Seconds (approx 70 metres)
Flight Path Record	VHS Colour Video System
GPS Navigation System	Ashtech XII GPS Receiver

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction	000-180 degrees 090-270 degrees
Flight Line Separation	100 metres
Tie Line Direction	090-270 degrees 000-180 degrees
Tie Line Separation	1000 metres
Terrain Clearance	70 metres (MTC)
Kevron Geophysics job number	1270
Survey flown	November 1994

SCALE 1:50,000

1 0 1 2 3 4

Kilometres

MAP GRID ZONE 54

SPHEROID : Australian National

PROJECTION : Universal Transverse Mercator

Kevron Geophysics PTY LTD

N

True North

CRA EXPLORATION Pty Ltd

DEEP WELL

Airborne Geophysical Survey

Flight Path

COMPILED : Kevron Geophysics Pty. Ltd.	REPORT : 21178
DATE : Nov 1994	PLAN NO. SAa 6537
SCALE 1:50,000	

395000 mE
400000 mE
405000 mE
410000 mE
415000 mE
420000 mE
425000 mE

6495000 mN
6490000 mN
6485000 mN
6480000 mN
6475000 mN
6470000 mN

Anomalous
Au, Pb, Zn

3339709 3339708 3339707 3339706 3339705
3339710 3339711 3339712 3339713 3339714
3339715 3339718 3339717 3339716 3339715
3339720 3339721 3339722 3339723 3339724
3339729 3339728 3339727 3339726 3339725
3339730 3339731 3339732 3339733 3339734
3339758 3339759 3339760 3339761 3339744 3339743 3339742 3339741 3339740 3339739 3339738 3339737 3339736 3339735
3339757 3339756 3339755 3339754 3339753 3339752 3339751 3339750 3339749 3339748 3339747 3339746 3339745
3339762 3339763 3339764 3339765 3339766 3339767 3339768 3339769 3339770 3339771 3339772 3339773 3339774 3339775
3943183
3943184
3339785 3339784 3339783 3339782 3339781 3339780 3339779 3339778 3339776 3339777
3339794 3339809 3339808 3339807 3339806 3339805 3339804 3339803 3339802 3339801
3943260

0 5 10
Kilometres
1:100 000

N

+ Regional Lag Sample

× Traverse Line Lag Sample

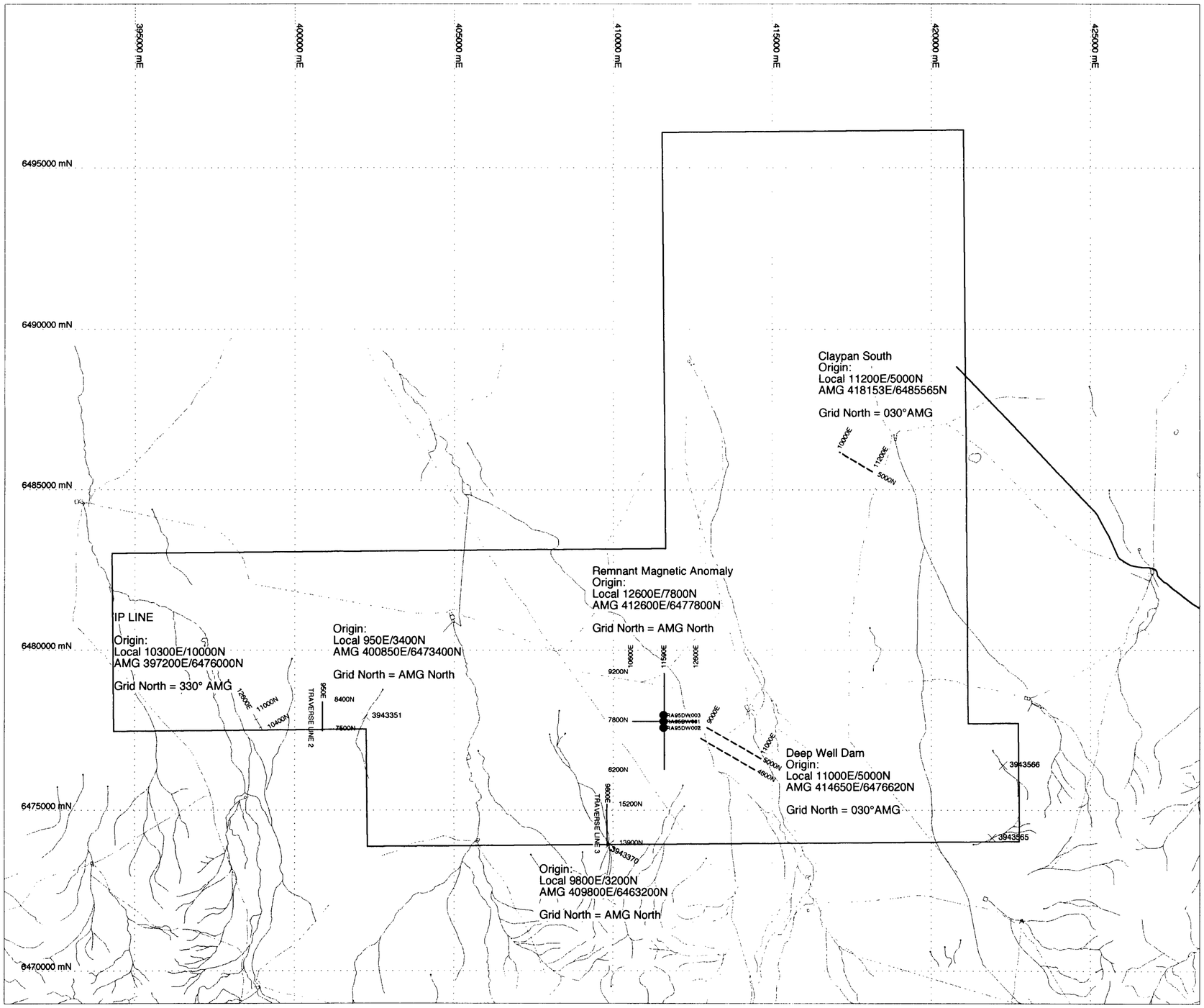
CRA EXPLORATION PTY LTD

DEEP WELL DAM EL 2016 - S.A.

Location of High-Iron Lag Samples

Curnamona SH54-14

Geol: WAS	Scale: 1:100 000	Report: 21178
Drawn: WAS	Date: November 1995	Plan: SAa 6533



CRA EXPLORATION PTY LTD		
DEEP WELL DAM EL 2016 - S.A.		
Location of Stream Sediment Samples, Electrical Geophysics and RAB Drilling		
Cunnamona SH54-14		
Geol: WAS	Scale: 1:100 000	Report: 21178
Drawn: WAS	Date: November 1995	Plan: SAa 6538

CRA EXPLORATION PTY. LIMITED
ACN 000 057 125

Annual Report
For The Period Ending 1 September, 1996
EL 2016 Deep Well Dam, South Australia

Author:	**T.C. Moody & D.J. McInnes**
Date:	**November, 1996**
Licence Holder:	**CRA Exploration Pty. Limited**
Submitted to:	**Chief Geologist, SE District**
Copies to:	**Mines and Energy, South Australia (2)** **CRAE - SE District (Adelaide)** **CRAE - ETIG**
Submitted by:	
Accepted by:	



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CRAE Report No. 23009

Abstract

EL 2016 (Deep Well Dam) comprising 347 km^2, was granted to CRA Exploration Pty. Limited on 2 September, 1994 for a period of one year. Tenure has been extended to 1 September, 1997. The tenement covers a portion of the northern Olary Block in the western part of the Proterozoic Willyama Inlier, approximately 70 kilometres north of Manna Hill, South Australia. Basement geology is largely concealed by recent cover sediments over the entire licence area.

A review of previous exploration has not been undertaken in the area and is recommended. However, previous exploration in the area is regarded as only minor.

Previous exploration by CRAE on the current tenement included and 100 m line-spaced airborne magnetic/radiometric survey, regional helicopter-supported high-iron lag sampling (91 samples @ 1 per 4 km^2), 4 -80# stream sediment samples, short IP, CSAMT and ground magnetics traverses in the south of the licence area, 500 m spaced lag sampling along the ground-geophysics traverses, TEM at the Deep Well Dam and Claypan South Prospects, ground magnetics and 3 RAB drill holes over a remnantly magnetised aeromagnetic anomaly. Areas of elevated high-iron lag sample geochemistry were recommended for follow up including a Au-Pb-Zn anomaly in the north of the licence. No significant anomalies were identified in the CSAMT, TEM, IP and stream sediment sample data. Elevated Cu (up to 700 ppm) was identified in pelites adjacent a mafic ?intrusive which is associated with the remnantly magnetic aeromagnetic anomaly.

Exploration completed during the reporting period included:

- 6.2 line kilometres of Moving Loop TEM in the north east of the licence area
- Purchase of geocoded Landsat TM data
- Gravity survey was planned and subsequently postponed

Lithostructural analysis using airborne magnetic, radiometric, airphoto and Landsat TM data is recommended over the licence area. Further review of the lag sample geochemistry in relation to airborne magnetics/lithostructural information is required. A Au-Pb-Zn anomaly identified during the previous reporting period also requires follow up.

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List Of Plans

Plan No.	Title	Scale
SAa 6284	Deep Well Dam EL 2016, S.A. Location Plan	1:250 000
SAa 6538	Deep Well Dam EL 2016, S.A. Location of Stream Sediment Samples, Electrical Geophysics and RAB drilling	1:100 000
SAa 6533	Deep Well Dam EL 2016, S.A. Location of High-Iron Lag Samples	1:100 000

List of Appendix

Appendix 1	Deep Well Dam EL 2016, S.A. Moving Loop TEM Survey

1. Conclusions and Recommendations

Re-interpretation of regional high-iron lag sample geochemistry is required to help prioritise future targets.

2. Introduction

Exploration Licence (EL) 2016, Deep Well Dam, comprising 347 km^2, was granted to CRA Exploration Pty Limited (CRAE) on 2 September, 1994 for a period of one year. The tenement has been renewed annually to 1 September, 1997.

EL 2016 is located approximately 70 kilometres north of Manna Hill and 350 kilometres north east of Adelaide on the Curnamona SH 54-14 1:250 000 sheet (plan SAb 6284). The tenement is accessed via dirt roads north from Olary and Manna Hill.

EL 2016 is covered by the Kuyani Association Native Title Claim. CRAE has provided the National Native Title Tribunal a "Notice of Intention to Become a Party to an Application" in respect of the Kuyani Association Native Title claim.

CRAE applied for EL 2016 to explore for base and precious metals in the Proterozoic basement.

This report documents the exploration undertaken in EL 2016 Deep Well Dam during its second year of tenure to 1 September, 1996.

3. Geology

EL 2016 overlies Early Proterozoic lithologies of the Willyama Super Group. Geological knowledge of the area is presently poor. The majority of the licence is covered by shallow cover (+20 m). Preliminary interpretation of airborne magnetic data suggest the licence covers large portions of dominantly Pelite Suite lithologies from the upper parts of the Olary Block stratigraphy (e.g. Clarke et al., 1986). These rocks area mostly folded about north east trending fold axis with local doming. Major north east trending ductile shears are also evident which have been crosscut by later west-north west trending faults.

The area is regarded as highly prospective for stratabound and structural controlled base and precious metal mineralisation.

4. Review of Previous Work

4.1 Prior to Current Tenement

A review of previous exploration in the Deep Well Dam licence area has not been completed. However, only minor previous exploration is understood to have been completed in the area. A complete review of all previous exploration is recommended.

4.2 During Current Tenement

Exploration in current EL 2016 is summarised below.

1st year of tenure (2/9/94 - 1/9/95) - CRAE Report No. 21178

- 100m line-spaced airborne magnetic & radiometric survey
- Regional helicopter-supported, high-iron lag sampling (91 samples @ 1 per 4 km2). An area of Au-Pb-Zn anomalism was identified in the north of the licence area and requires follow up.
- CSAMT (2.5 line km). No significant anomalies were identified.
- Lag sampling along the regional CSAMT traverse lines 2 & 3 (total 4 samples). No significant results were recorded.
- -80# stream sediment sampling in the south of the licence (4 samples). No significant results reported.
- 7.2 line km of In-Loop TEM including 2 lines at Deep Well Dam Prospect and 1 line at Claypan South Prospect (plan SAa 6538).
- 0.6 line km of 100m dipole-dipole IP. No significant anomalies were detected.
- A remnant aeromagnetic anomaly was identified. Three RAB holes and ground magnetics were completed over the anomaly. Elevated Cu (up to 700ppm Cu) was identified in Pelites adjacent to a mafic ?intrusive, interpreted as the source of the magnetic anomaly.

5. Exploration completed in the 12 months ending 1 September, 1996

5.1 Regional Interpretation

A regional interpretation of airborne magnetic, gravity, structure, Landsat TM & geology has not been completed over the tenement. A lithostructural analysis is recommeded to identify future targets for more detailed exploration.

5.2 Landsat TM

Geocoded Landsat TM data was purchased over EL 2016. Interpretation of this data is required.

5.3 Moving Loop TEM Survey

In late November, early December of 1995, four in-loop TEM traverses were completed for a total of 6.2 line km. Two traverses were completed at the Claypan North prospect with single traverses competed at the Broken Jaw and Lignum West prospects. None of the traverses recorded any late time anomalies. A broad low amplitude increase in the late time response is observed on the ends of both traverses at Claypan North (10800E-11200E). This may reflect a change in the underlying geology rather than approaching a discrete conductor. The logistic report and profiles are included in Appendix 1.

6. References

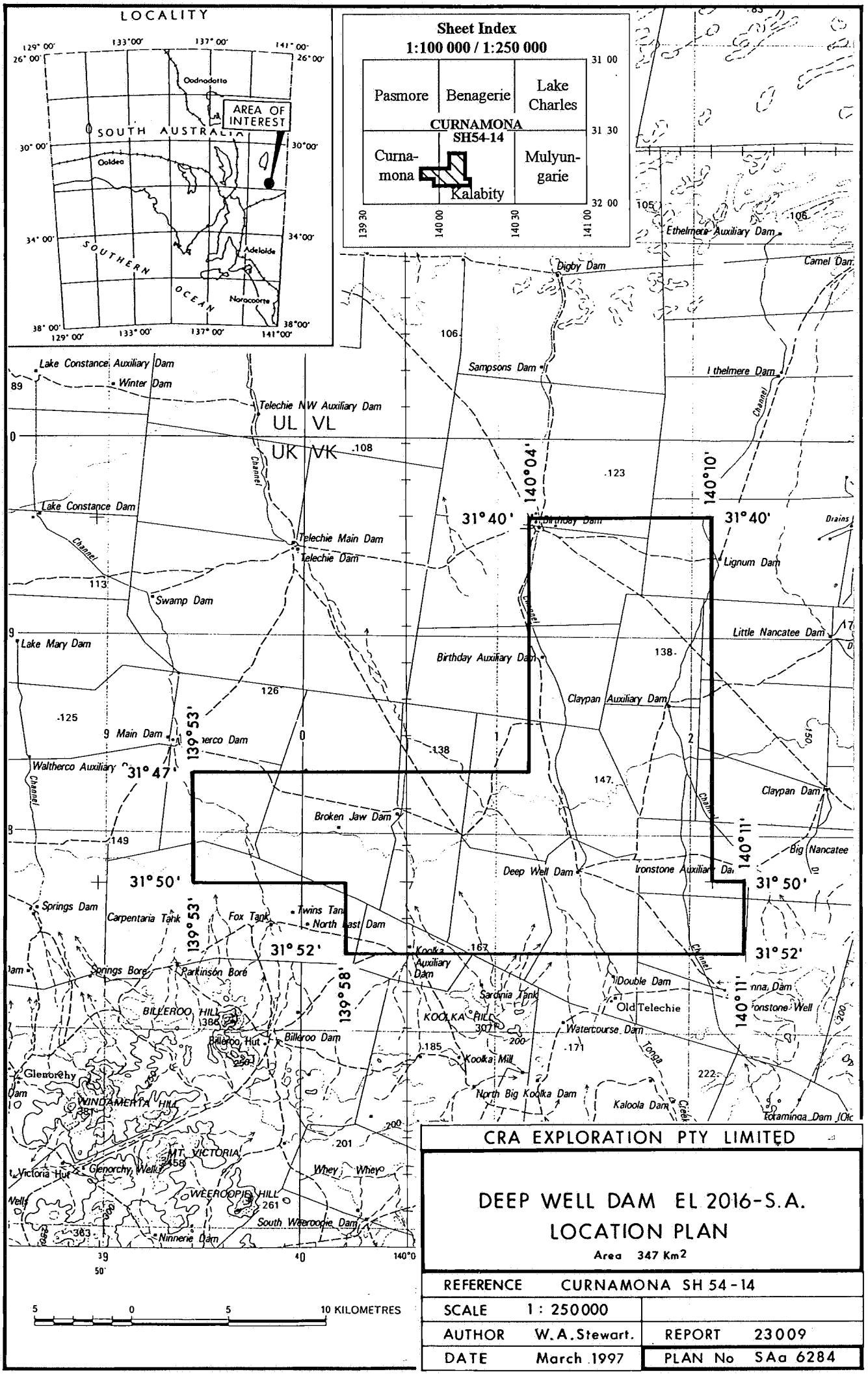
Stewart, W.A., 1995	Annual report for Deep Well Dam EL 2016,South Australia for the period ended 1 September, 1995.
Clarke, G.L., Burg, J.P. & Wilson, C.J.L. 1986	Stratigraphic and structural constraints on the Proterozoic tectonic history of the Olary Block, South Australia: Precambrian Research, v.34, p107-137

7. Location

Curnamona SH 54-14 1:250 000 sheet

8. Keywords

Proterozoic, Willyama Inlier, Olary Block, lag sample anomaly, Moving Loop TEM, Landsat TM



CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016-S.A.
LOCATION PLAN

Area 347 Km²

REFERENCE	CURNAMONA SH 54-14		
SCALE	1 : 250000		
AUTHOR	W.A.Stewart.	REPORT	23009
DATE	March 1997	PLAN No	SAa 6284

395000 mE
400000 mE
405000 mE
410000 mE
415000 mE
420000 mE
425000 mE

6495000 mN
6490000 mN
6485000 mN
6480000 mN
6475000 mN
6470000 mN

Claypan South
Origin:
Local 11200E/5000N
AMG 418153E/6485565N

Grid North = 030°AMG

10000E
11200E
5000N

Remnant Magnetic Anomaly
Origin:
Local 12600E/7800N
AMG 412600E/6477800N

Grid North = AMG North

10000E
11500E
12600E
9200N
7800N
6200N
RA95DW003
RA95DW001
RA95DW002
8000E
11000E
5000N
4000N

IP LINE
Origin:
Local 10300E/10000N
AMG 397200E/6476000N

Grid North = 330° AMG

12800E
11000N
10400N

Origin:
Local 950E/3400N
AMG 400850E/6473400N

Grid North = AMG North

TRAVERSE LINE 2
950E
8400N
7600N
3943351

Deep Well Dam
Origin:
Local 11000E/5000N
AMG 414650E/6476620N

Grid North = 030°AMG

3943566
3943365

TRAVERSE LINE 3
9800E
15200N
13900N
3943370

Origin:
Local 9800E/3200N
AMG 409800E/6463200N

Grid North = AMG North

N

× Stream Sediment Sample

● RAB Drillhole

Ground Magnetics

TEM

IP

0 5 10
Kilometres
1:100 000

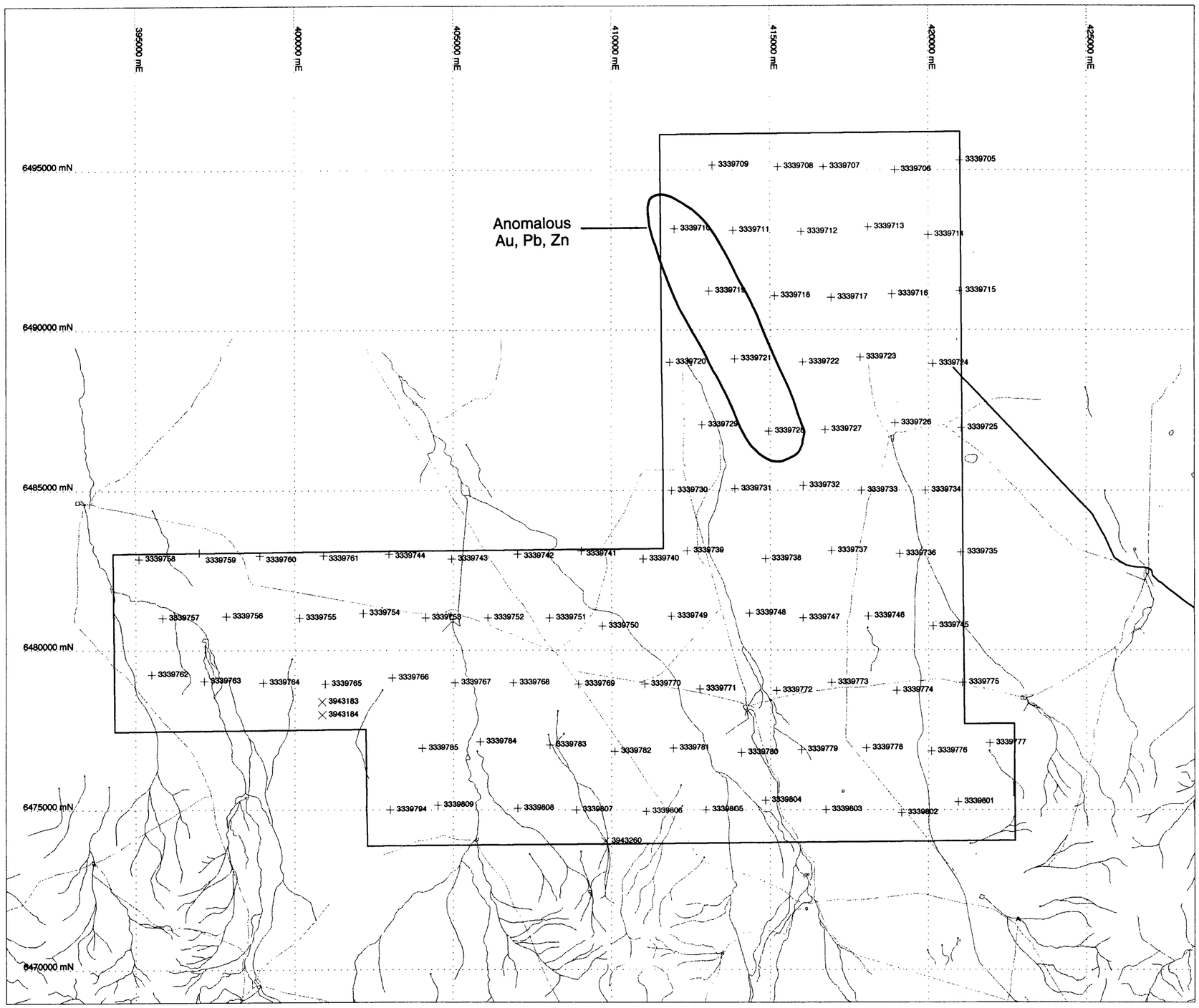
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DEEP WELL DAM EL 2016 - S.A.

Location of Stream Sediment Samples, Electrical Geophysics and RAB Drilling

Carnamona SH54-14

Geol: WAS	Scale: 1:100 000	Report: 23009
Drawn: WAS	Date: November 1995	Plan: SAa 6538



+ Regional Lag Sample

× Traverse Line Lag Sample

0 5 10

Kilometres
1:100 000

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DEEP WELL DAM EL 2016 - S.A.		
Location of High-Iron Lag Samples		
Curnamona SH54-14		
Geol: WAS	Scale: 1:100 000	Report: 23009
Drawn: WAS	Date: November 1995	Plan: SAa 6533

Appendix 1

Deep Well Dam EL 2016, S.A.
Moving Loop TEM Survey

LOGISTICS REPORT

TEM SURVEYS

CLAYPAN NORTH, MILLIEROOKA, BROKEN JAW, BILLEROO HILL, TELECHIE SOUTH & LIGNUM WEST PROSPECTS

for

CRA EXPLORATION PTY. LTD.

Issue date: 2 February 1996
Zonge Job #290

Zonge Engineering & Research Organization, Inc.
240 Glen Osmond Road, Fullarton, SA 5063
Phone (08) 338 1559 Facsimile (08) 379 6753

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Executive Summary.....3

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Survey Overview.....4

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EXECUTIVE SUMMARY

On 23 November 1995, at the request of Michael Barlow of CRA Exploration (CRAE), Zonge Engineering and Research Organization (Zonge) mobilized a three person geophysical field crew to the northeast corner of South Australia to perform transient electromagnetic (TEM) surveys on and around the Kalabity, Boolcoomata and Plumbago stations. This work was performed on the Claypan North, Lignum West, Millierooka, Broken Jaw, Billeroo Hill, and Telechie South prospects.

In total, 19 line kilometres of TEM were collected in 23 days of production. The entire job was conducted over a period of 27 days, which included two days off, a total of one day for mobilization/demobilization, and total of one day for down time due to small miscellaneous equipment problems.

PROJECT LOGISTICS

Survey Overview:

Responsibility for the crew in the field was split between two Zonge crew chiefs on this project. Paul Crosato was the crew chief from 23 November through 1 December and was replaced by Simon Torjul for the remainder of the work. Paul's crew consisted of Simon Torjul and Trevor Coff. Simon's crew consisted of Trevor Coff and Mark Thompson. Data acquisition began on 24 November and continued through 15 December, with production shut down for two days when the crew took a break in Adelaide. The work was finished on 19 December, with demobilization to Adelaide completed on that date.

Production Summary:

Date	Description
23 Nov	Crew drove from Adelaide to Kalabity Station.
24-28 Nov	TEM at Claypan North and Lignum West prospects. Moved to Boolcoomata Station.
29 Nov-9 Dec	TEM at Millierooka prospect. Moved to Kalabity Station.
10-12 Dec	TEM at Broken Jaw prospect. Drove to Plumbago Station.
13 Dec	TEM at Billeroo Hill prospect.
14-15 Dec	TEM at Telechie South prospect.
16-17 Dec	Time off in Adelaide.
18-19 Dec	TEM at Telechie South prospect.
19 Dec	Demobilized to Adelaide.

Field Instrumentation:

A Zonge multipurpose GDP-16 receiver was used to take all of the data for this project. This receiver is a backpack-portable, microprocessor-controlled receiver capable of simultaneously gathering data on up to eight channels. Each day's data were downloaded every evening from the receiver's solid-state memory to a portable computer. Final processing, modeling and plotting were completed in Zonge Engineering's Adelaide office.

Source fields for all of the surveys catalogued in this report were generated with a Zonge GGT-25 geophysical transmitter powered by a ZMG-30 motor generator. Control of the square-wave transmitter waveform was provided by a Zonge XMT-16 transmitter controller. Quartz clocks within the receiver and transmitter controller were synchronized at the beginning of each field day.

Transmitter loops for the TEM surveys were made up of two turns of standard 2.5 mm, insulated copper wire. Two turns were used to double the effective moment of the transmitted signal (similar to doubling the current). Since loop resistance increased due to the extra wire, the delay time of the transmitted signal was increased and some early time data was lost. Since CRAE was interested in improving the depth penetration of the system, this was considered a minor loss. All data taken using the 200 metre transmitting loops were at 0.25 hertz, with currents of 25 amperes the norm. All data taken using the 100 metre transmitting loops, except for the

Telechie South data set, were taken at 0.5 hertz, again with currents of 25 amperes the norm. All of the Telechie South data (100 metre transmitting loops) were taken at 0.25 hertz, again with currents of 25 amperes.

A SIROTEM RVRcoil, with an effective area of 10,000 square metres, and a CRAE coil (CRAE-94), with an effective area of 250,000 square metres, both measuring the Hz component, were the main coils used to sense the magnetic field. When one of the coils broke down, the Zonge TEM-3 coil was used. This coil has an effective area of 10,000 square metres.

Survey Parameters:

All of the TEM data were collected using a moving, in-loop configuration, with all of the transmitting loops set up using two turns, so as to double the transmitter moment.

At Claypan North, Broken Jaw, and Lignum West TEM data were read using transmitting loop dimensions of 200 metres by 200 metres, and a station spacing of 100 metres. At Millierooka, Billeroo Hill and Telechie South TEM data were collected using 100 metre by 100 metre transmitting loops and a station spacing of 50 metres.

Two coils were used to read the vertical component of the H-field. For most of the survey the SIROTEM RVR coil was used to measure early-time response, with the gain settings on the receiver allowed to vary, depending on local signal level.

Again, for most of the survey, the CRAE-94 antenna was used primarily to measure late-time response. The output from the CRAE-94 coil was read using two receiver channels. This allowed the coil response to be read ungained (i.e. x1), to improve middle-to-late-time response and gained-up (i.e. x32) to improve late-time response.

On Millierooka line 9800E, it was determined that the original CRAE-94 coil was not operating properly and was replaced with a second one. As a check of response on the next line (line 10000E) the SIROTEM RVR coil was read in channel 1 (gain allowed to float), and the Zonge TEM-3 coil was read in channel 2 (gain allowed to float). The CRAE coil was read gained up (i.e., x32) in channel 3. Also at Millierooka, since early time response was so saturated, different CRAE-94 coil internal gain settings were experimented with on the three lines. For line 10200E, the CRAE-94 coil internal gain was set to x200 (as was standard on the rest of the survey). For the other two Millierooka lines (9800E and 10000E) the internal gain was reduced by a factor of ten to x20. This reduced the overall gain of the system, reducing the effective area of the coil to 25,000 square metres. Additionally, some testing was done at that time to determine whether the CRAE-94 coil was interfering with the performance of the other coils.

On Telechie South lines 65900N and 66500N the SIROTEM RVR coil failed, and was switched with the Zonge TEM-3.

Data Quality:

Standard Zonge field procedure requires that the receiver operator make multiple measurements of each data point, while monitoring real-time, measurement-error values displayed on the receiver's screen. Multiple blocks of the data are also reviewed graphically as transient plots for each measured component. Error bars on these graphical displays indicate data quality. Additionally, for this survey, CRAE supplied a field geophysicist equipped with a portable computer who was able to monitor data quality in the field.

TEM data quality varied from prospect to prospect. Much of this variation can be accounted for by differences in local background resistivity. Signal strength attenuates more quickly in resistive areas than in conductive areas, with the result that the data appear to be of lower quality in the more resistive areas.

Line plots prepared from the field data reflect the full data sets, including noisy late-time data. Often late-time noise in these data may look somewhat like normal (very slowly decaying) signal. In reality, there is little real data and the response is actually some combination of atmospheric, antenna and receiver noise, and must be removed before the data is inverted.

The data were generally clean for all the prospects. Data from Lignum West, one line at Telechie South (66500N), and two lines at Millierooka (29800E and 9800E) were somewhat noisier.

Generally, the first 18-22 time windows of each set are usable for inversion. The latest usable time window data repeat to within 20%, with earlier time window magnitudes to within 5%. Data from Claypan North represent the cleanest set, repeating to within 2% for the early time windows, and 10% for later windows.

The data quality at Lignum West, line 66500N at Telechie South, and line 29800E at Millierooka, was slightly poorer, with later window magnitudes repeating to only 20-30%. At least at Lignum West, this loss of late time data quality appears to be the result of faster decay in these areas, as discussed above.

Data quality on line 9800E at Millierooka was also generally worse than in other areas, especially the ungained response of the CRAE-94 coil. The gained response, measured in a separate channel, is of similar quality to the response measured on line 10000E, gained up. All of the CRAE-94 coil data for these two lines were measured with the CRAE coil internal gain setting reduced to x20, instead of the usual x200 setting. The lower data quality on those two lines is most likely related to that change.

For Claypan North line 5000N (the first line read during this survey), the receiver operator did not lock out the attenuator on the CRAE-94 "gained-up" channel on the first day of the survey. As a result, since that channel was gained up so high, the attenuator was activated and the net gain was reduced by a factor of 8 (i.e. not x32 but x4). Also, when the attenuator

is used in TEM (not generally recommended) early window timing is affected. The ungained CRAE-94 data is not affected, as the attenuator did not come in. These differences are noted on the plots.

On Lignum West line 4380E there appears to be a difference in synchronisation between stations 2600N and 2700N (i.e. data taken on 27 November and 28 November). This effect is only apparent on the first four to five windows.

DATA PRESENTATION

There are no data plots presented with this report, as they have been issued separately to CRAE, in final form. Nevertheless, in this section we will review normal Zonge Engineering data presentation conventions.

Data Summary

Billeroo Hill TEM		
6470N	5000E-6500E	100m x 100m Tx loop
Broken Jaw TEM		
8600E	8000N-10000N	200m x 200m Tx loop
Claypan North TEM		
5000N	10000-11200E	200m x 200m Tx loop
5400N	10000-11200E	200m x 200m Tx loop
Lignum West TEM		
4380E	1800N-3600N	200m x 200m Tx loop

Data Summary (cont.)

Millierooka TEM					
9800E	300N-1300N	100m	x	100m	Tx loop
10000E	2100N-3200N	100m	x	100m	Tx loop
10200E	300N-1300N	100m	x	100m	Tx loop
19600E	3000N-4050N	100m	x	100m	Tx loop
19800E	3000N-4000N	100m	x	100m	Tx loop
20200E	3000N-4000N	100m	x	100m	Tx loop
29800E	100N-1100N	100m	x	100m	Tx loop
30000E	100N-750N	100m	x	100m	Tx loop
30200E	100N-1100N	100m	x	100m	Tx loop

Telechie South TEM					
65900N	5300E-6000E	100m	x	100m	Tx loop
66100N	5250E-6200E	100m	x	100m	Tx loop
66500N	5250E-6100E	100m	x	100m	Tx loop

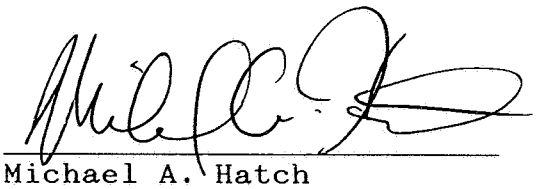
TEM Plots:

Standard Zonge data presentation for TEM sounding data is a dB/dt profile plot of window magnitude plotted against station position. Windows are numbered (i.e., 1 through 31), with times for each window given in the header of each plot, and window magnitudes contoured from station to station. The vertical coordinate on these plots is logarithmically scaled magnitude, and the horizontal coordinate is distance along line. Station numbers indicate slope distance in metres.

Smooth-model inversion of TEM data can be a a very useful extension to the standard presentation of the data. The TEM inversion transforms time vs. magnitude into model resistivity as a function of depth.

SUMMARY

Good quality TEM data were collected during this survey. Approximately 19 kilometres of data were collected over 23 production days. Production delays due to equipment problems were negligible.



Michael A. Hatch
Managing Geophysicist

Line 4380 E
LIGNUM WEST
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

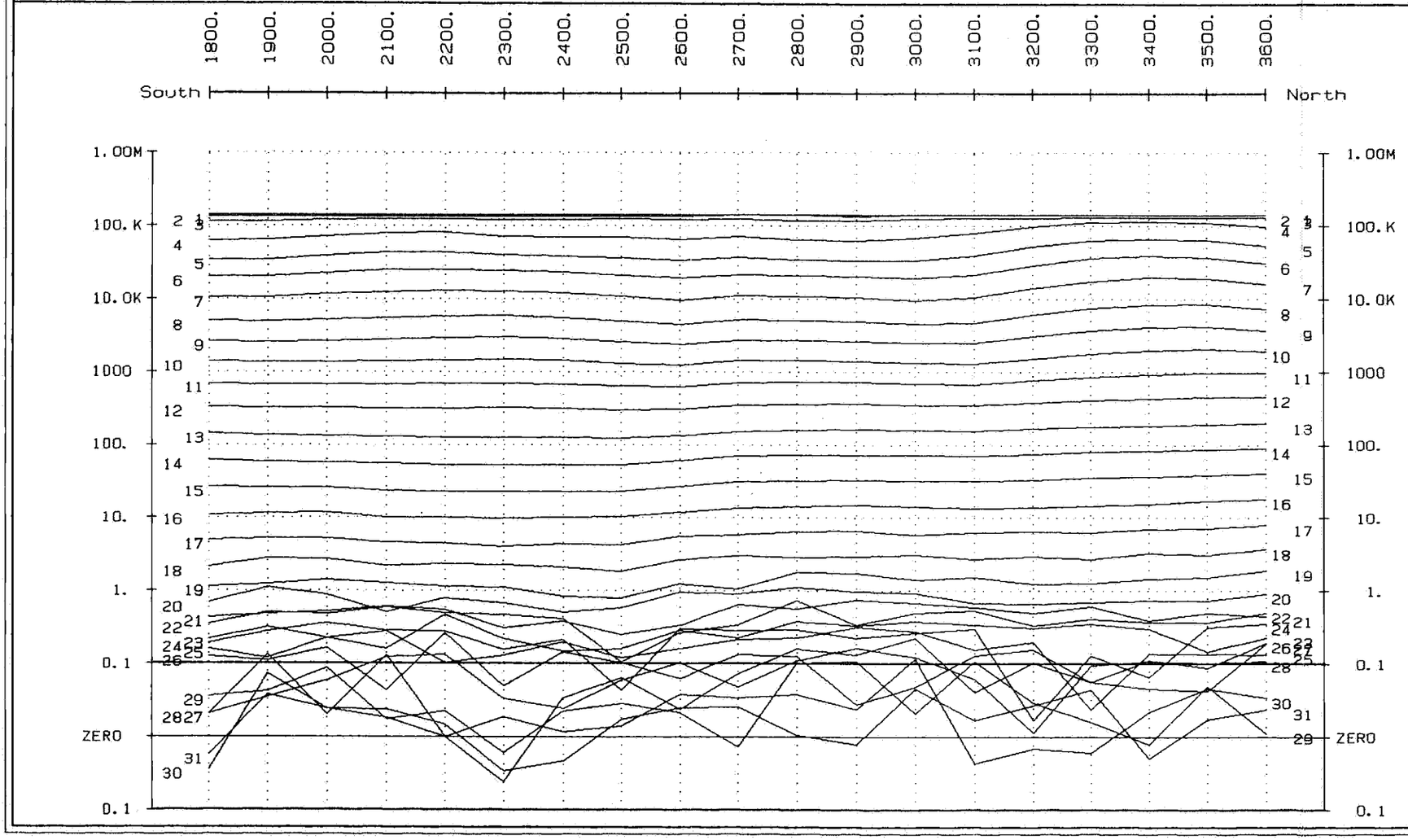
CRA Coil: 250 000 sq m
Gains set to 000

SURVEY LINE DATA
Line Orient= North

Survey Date= 11/1995

Window NUMBER and TIME (seconds)

W 1:	536.8u	W11:	8.304m	W21:	77.65m	W31:	.7717	
W 2:	1.023m	W12:	10.22m	W22:	97.66m			
W 3:	1.510m	W13:	12.88m	W23:	.1231			
W 4:	1.996m	W14:	16.03m	W24:	.1545			
W 5:	2.482m	W15:	19.90m	W25:	.1941			
W 6:	2.969m	W16:	24.73m	W26:	.2443			
W 7:	3.689m	W17:	30.99m	W27:	.3074			
W 8:	4.664m	W18:	39.20m	W28:	.3869			
W 9:	5.638m	W19:	49.37m	W29:	.4871			
W10:	6.841m	W20:	61.93m	W30:	.6128			



Line 4380 E
LIGNUM WEST
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

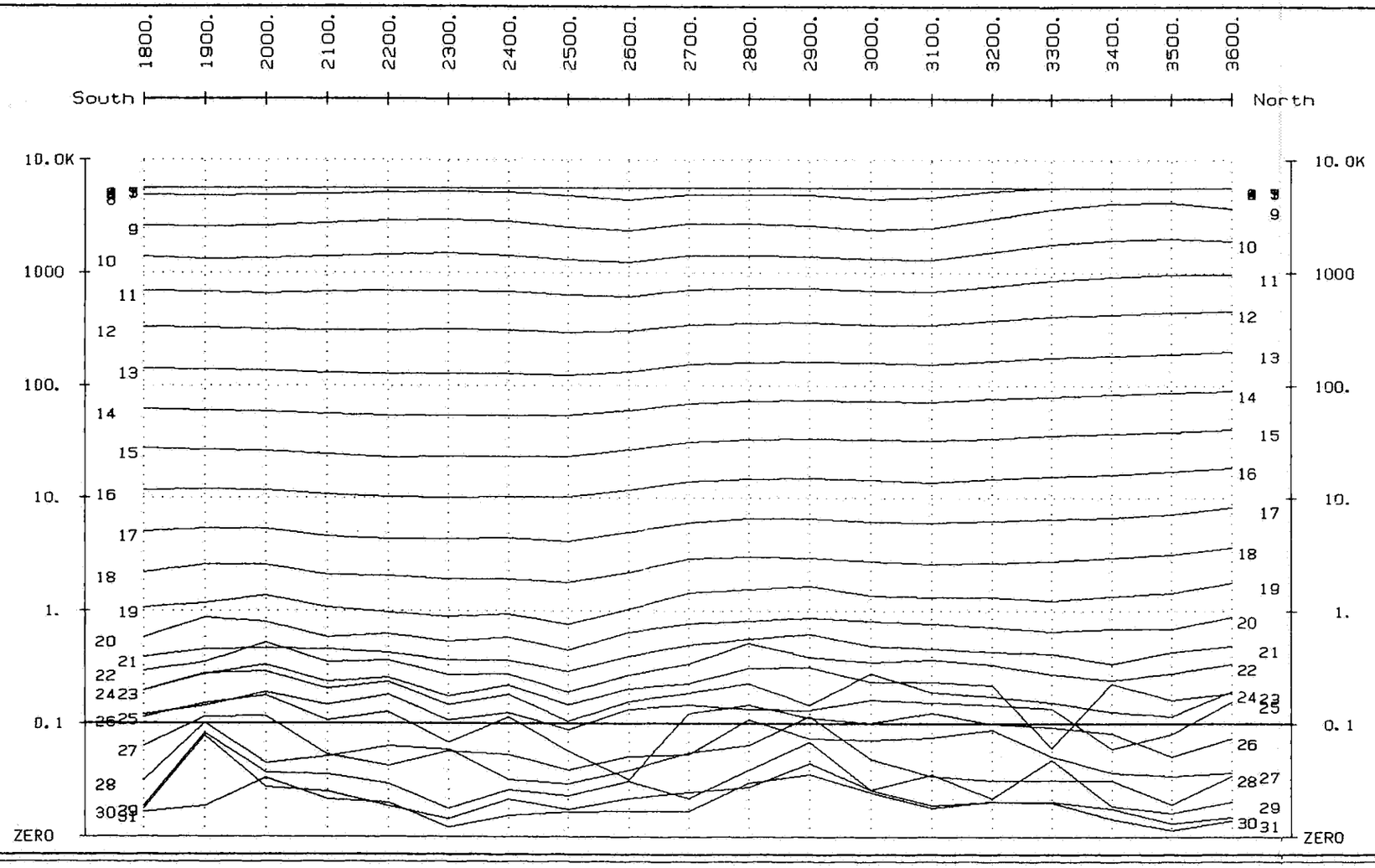
CRA Coil: 250 000 sq m
Gains set to 050

SURVEY LINE DATA
Line Orient= North

Survey Date= 11/1995

Window NUMBER and TIME (seconds)

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W 8:	4.664m	W18:	39.20m	W28:	.3869		
W 9:	5.638m	W19:	49.37m	W29:	.4871		
W10:	6.841m	W20:	61.93m	W30:	.6128		



Line 4380 E
LIGNUM WEST
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

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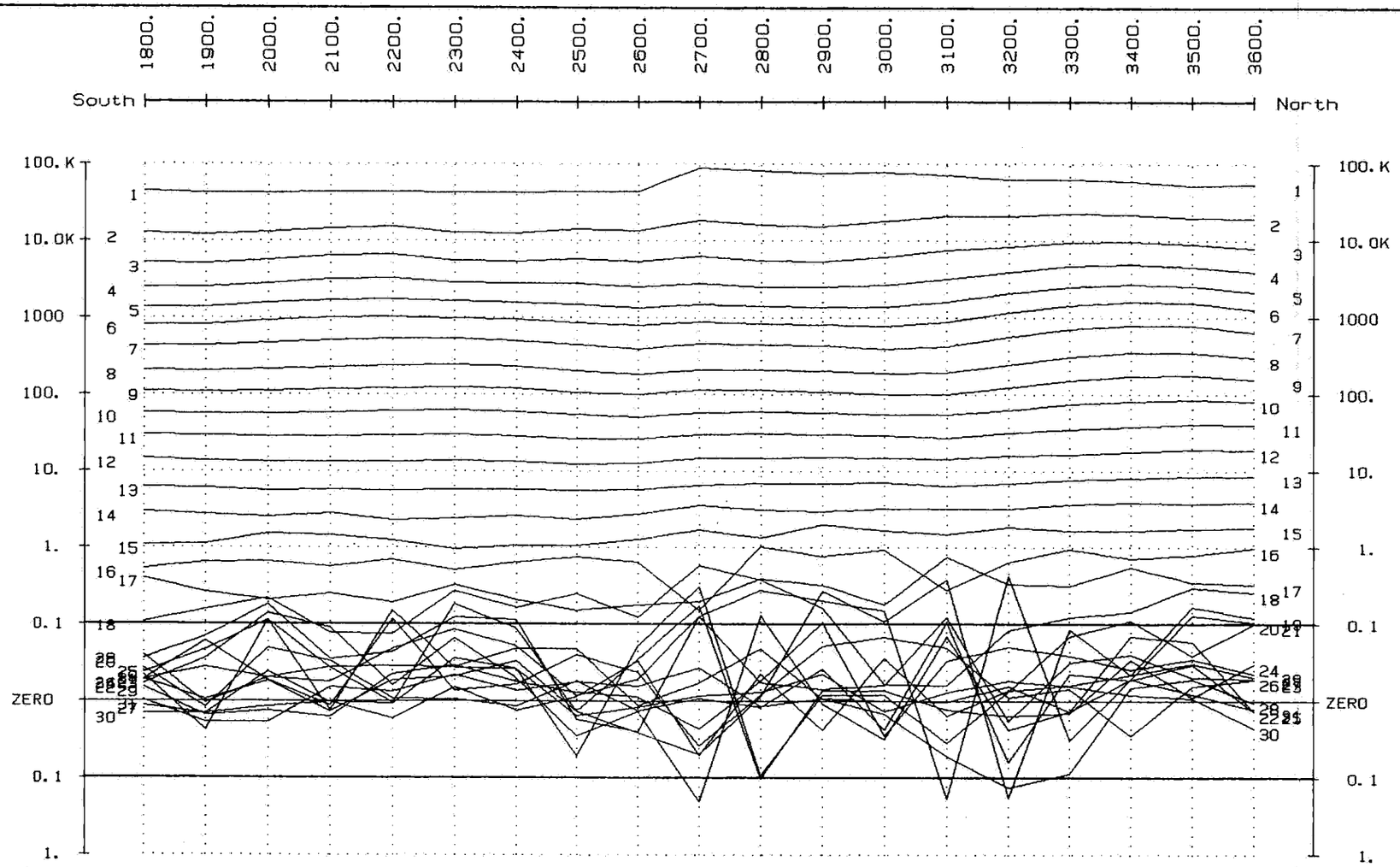
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Line 5000 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

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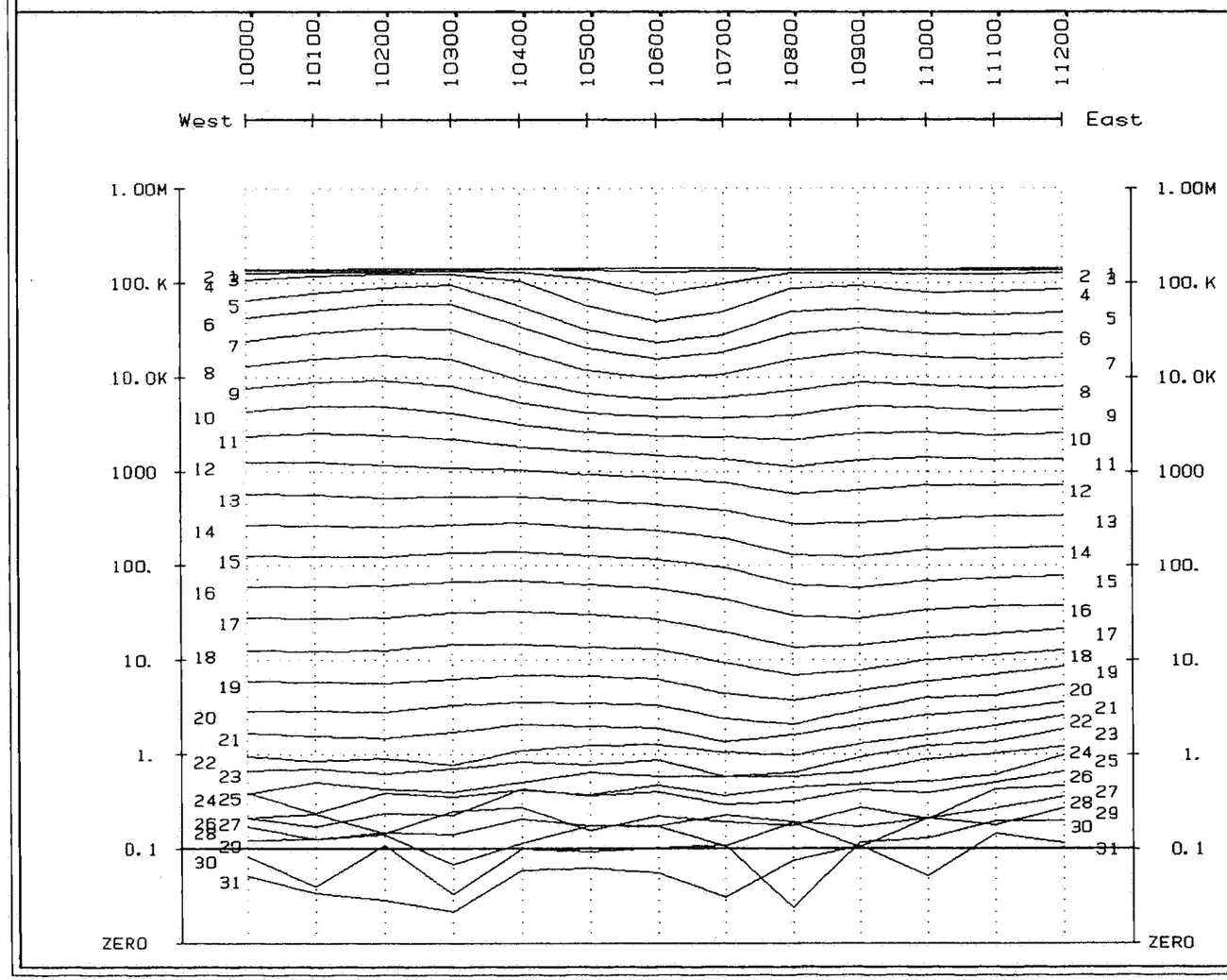
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SURVEY LINE DATA
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W 9:	5.638m	W19:	49.37m	W29:	.4871				
W10:	6.841m	W20:	61.93m	W30:	.6128				



Line 5000 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

TRANSIENT EM SURVEY DATA
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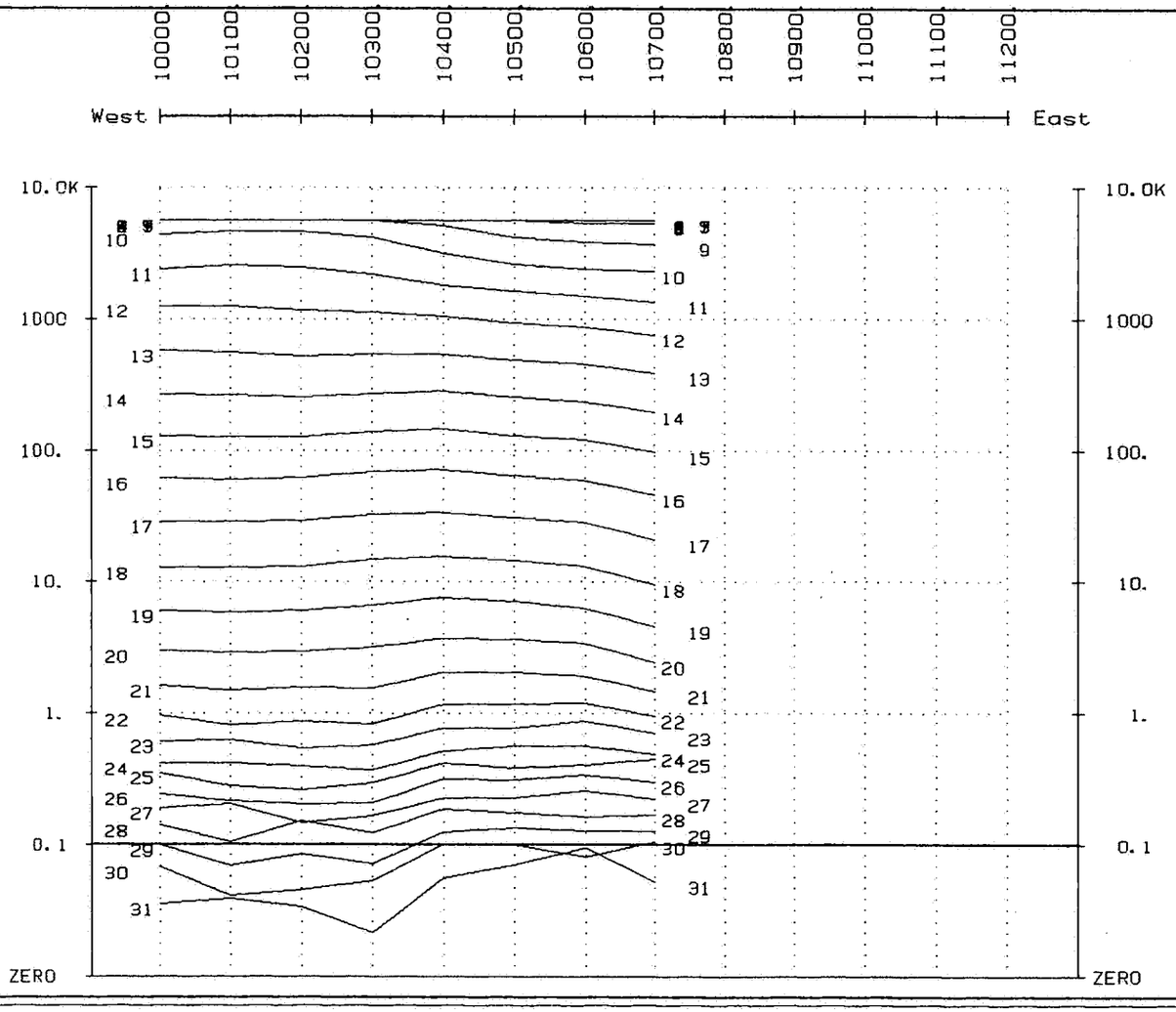
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Line 5000 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

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TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

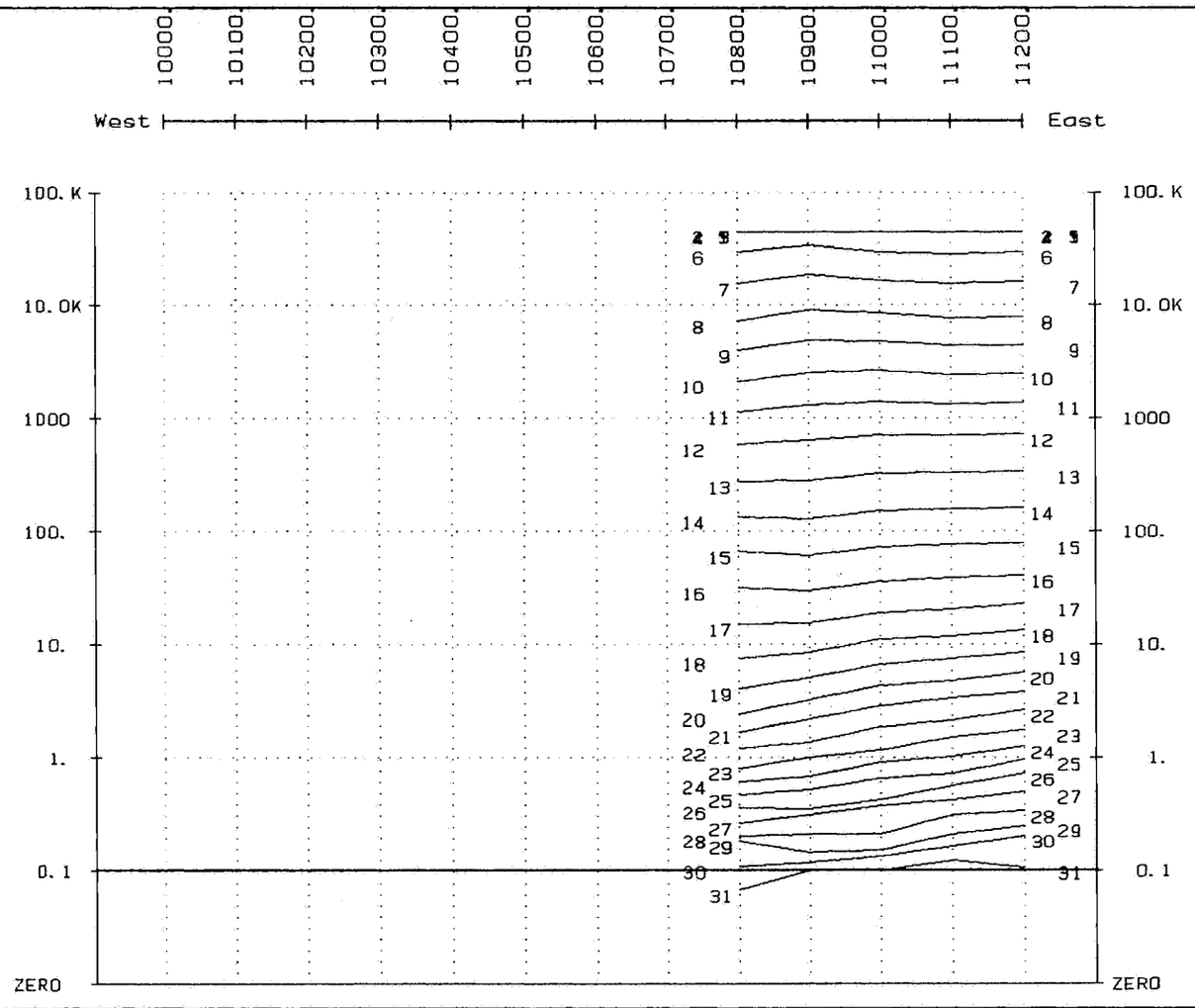
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SURVEY LINE DATA
Line Orient= East

Survey Date= 11/1995

Window NUMBER and TIME (seconds)

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Line 5000 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

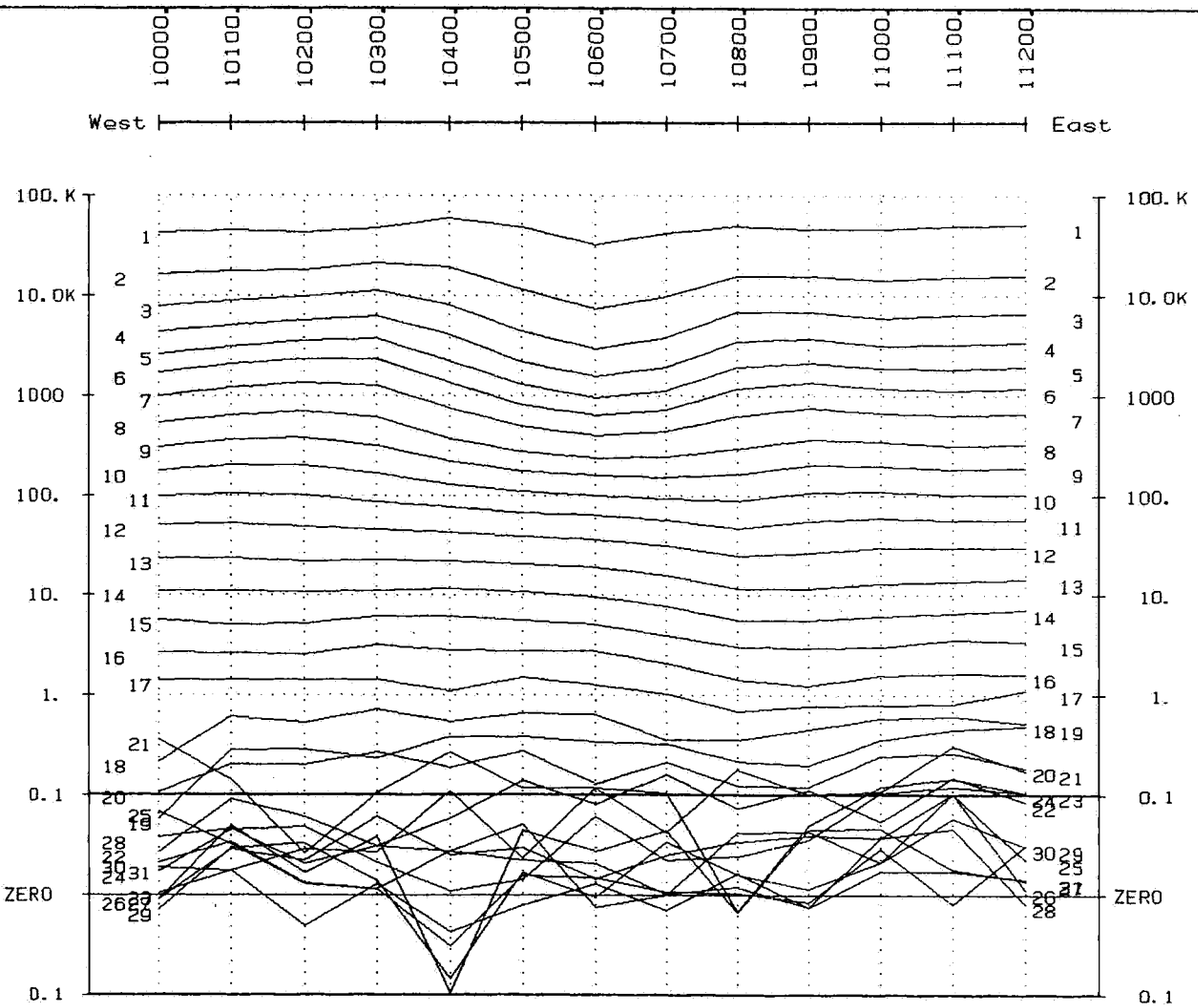
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Line 5400 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

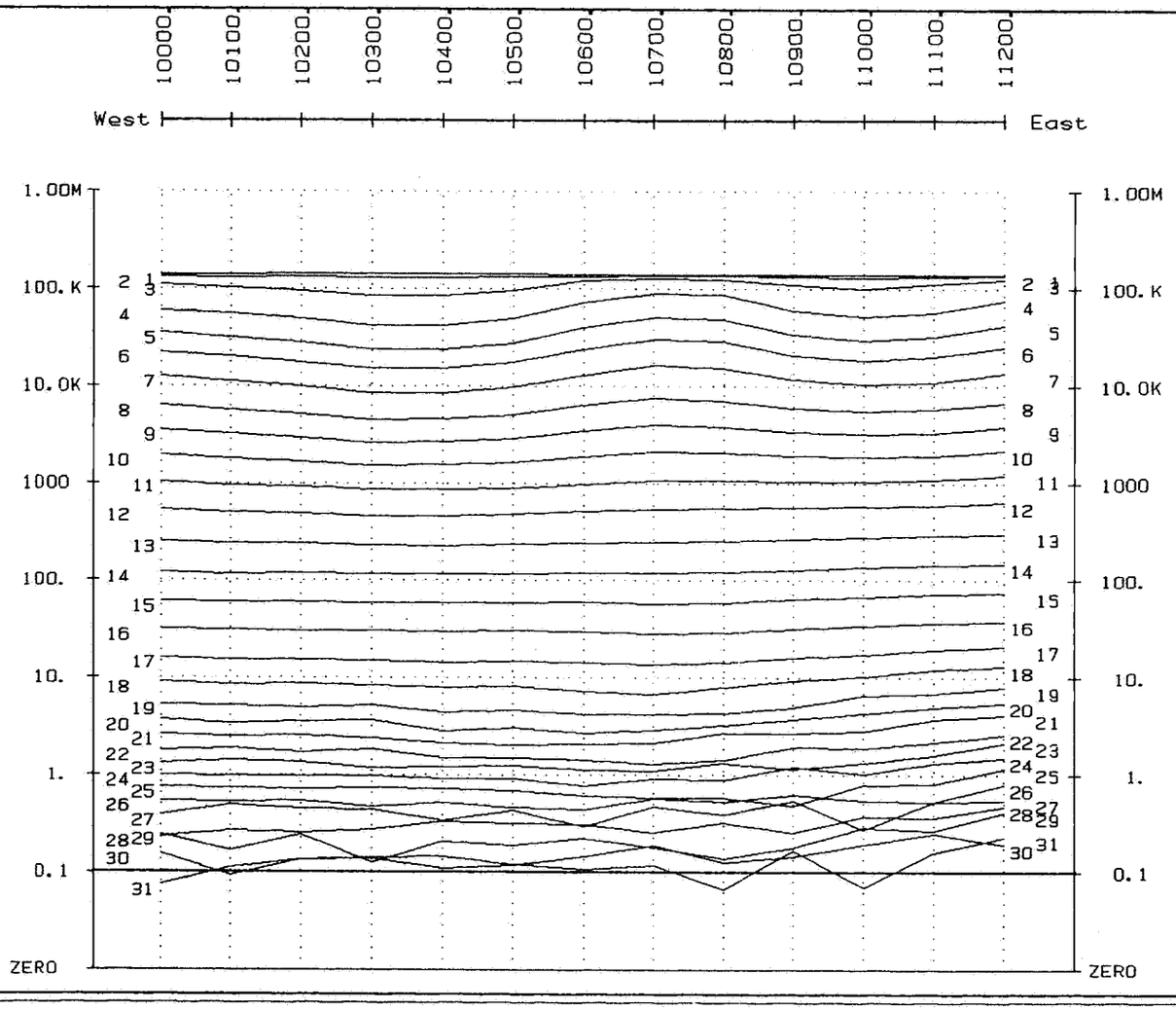
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Line Orient= East

Survey Date= 11/1995

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Line 5400 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

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Window MAGNITUDE: uV/A

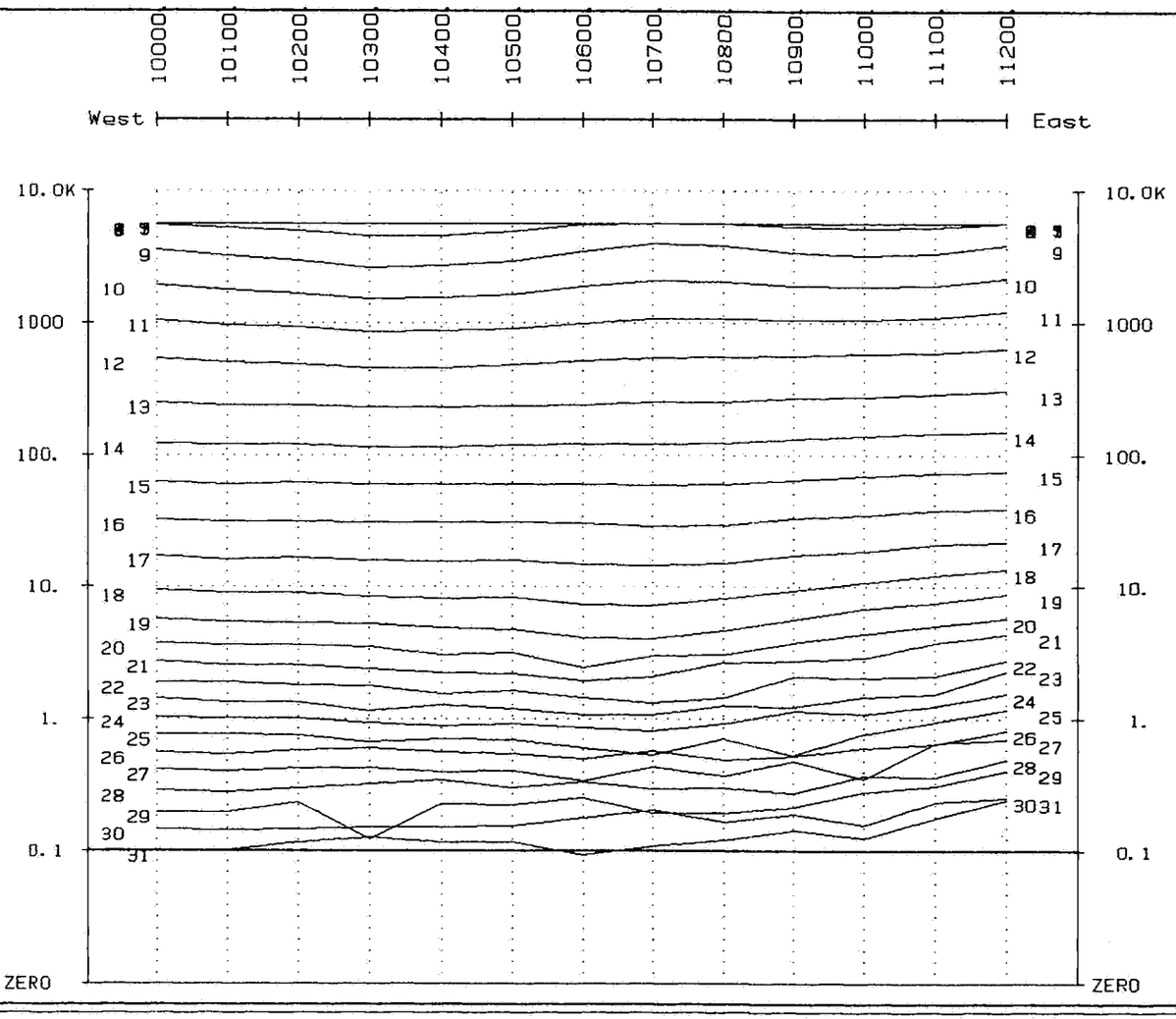
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Line Orient= East

Survey Date= 11/1995

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W 9:	5.638m	W19:	49.37m	W29:	.4871			
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Line 5400 N
CLAYPAN NORTH
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 31 Dec 95

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Window MAGNITUDE: uV/A

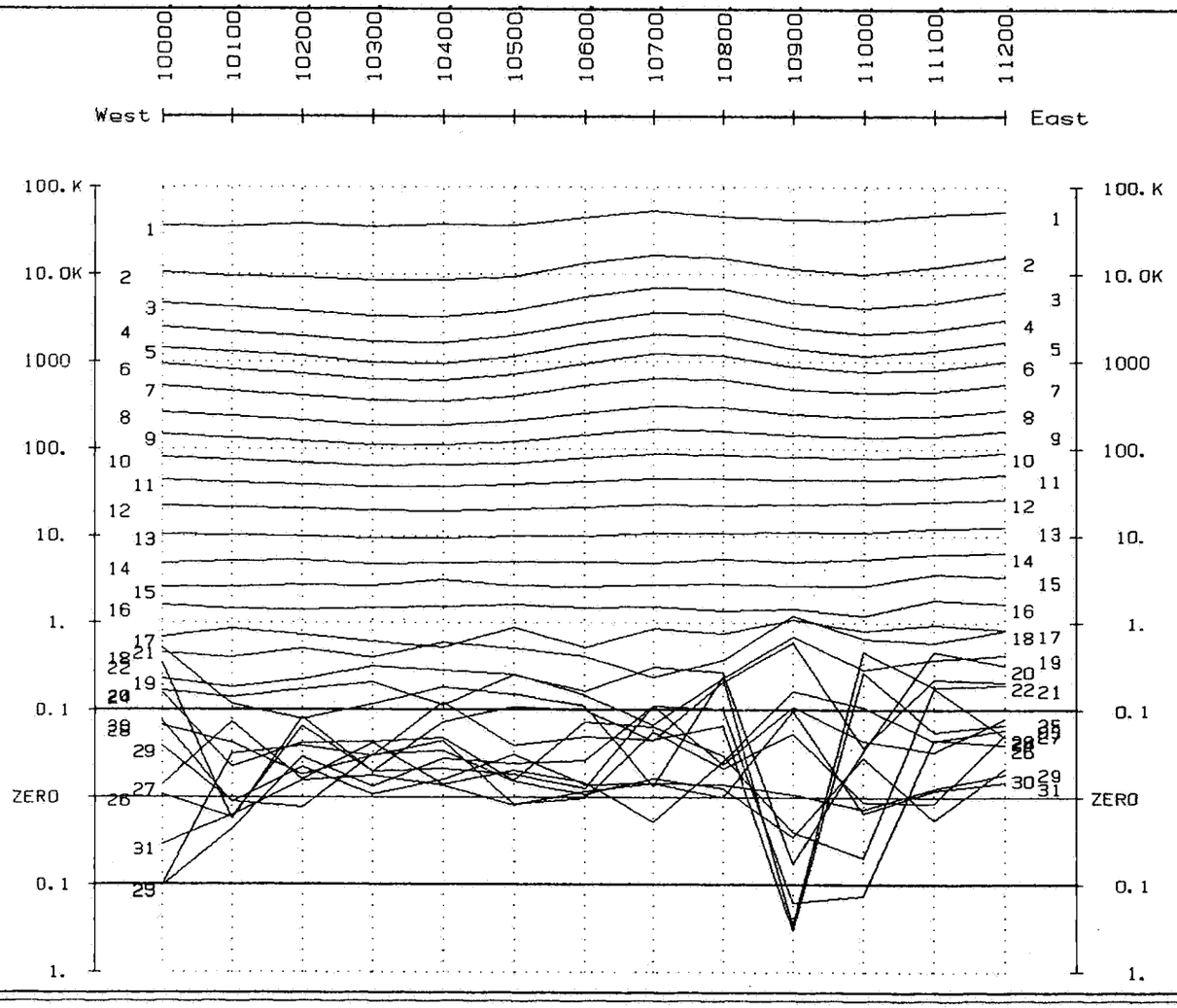
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Auto gain set

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Line Orient= East

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W10:	6.841m	W20:	61.93m	W30:	.6128				



Line 8600 E
BROKEN JAW
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

TRANSIENT EM SURVEY DATA
Window MAGNITUDE: uV/A

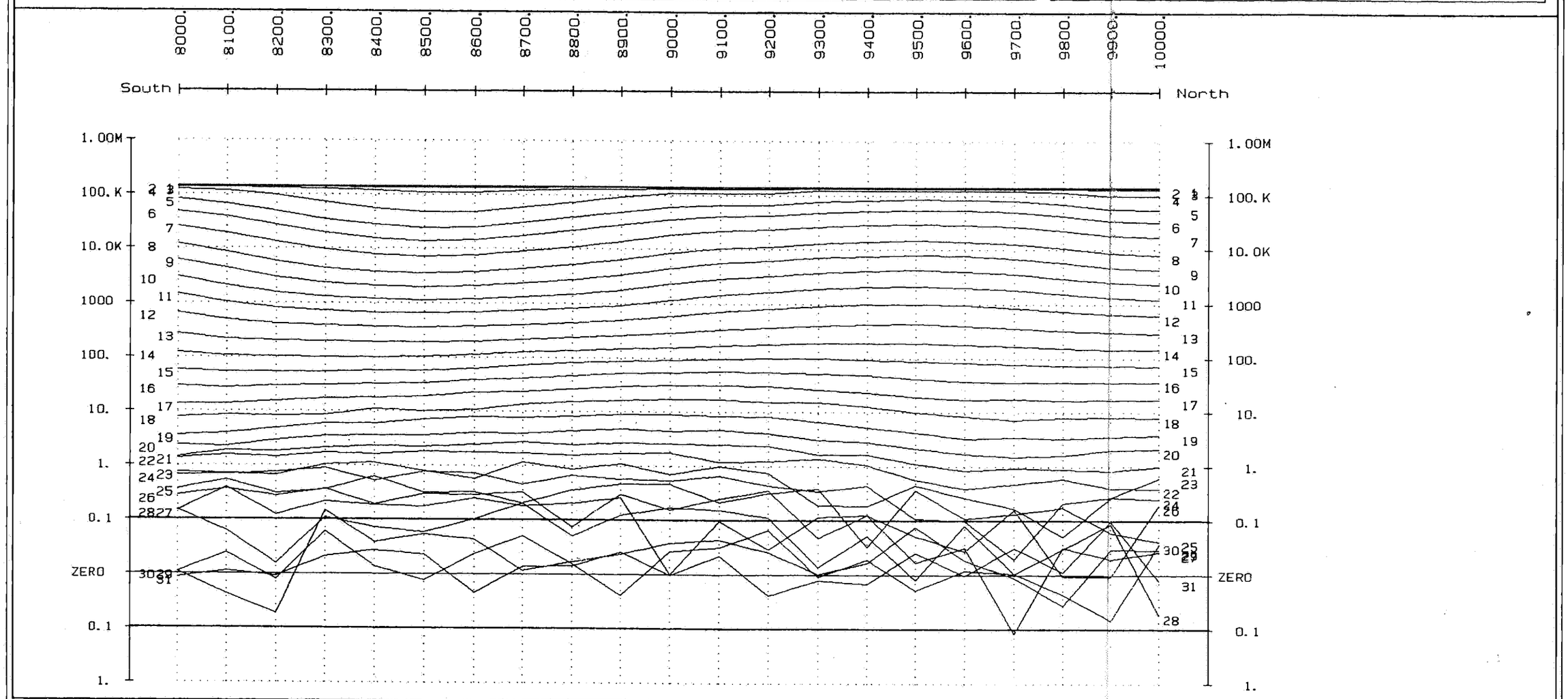
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Line 8600 E
BROKEN JAW
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

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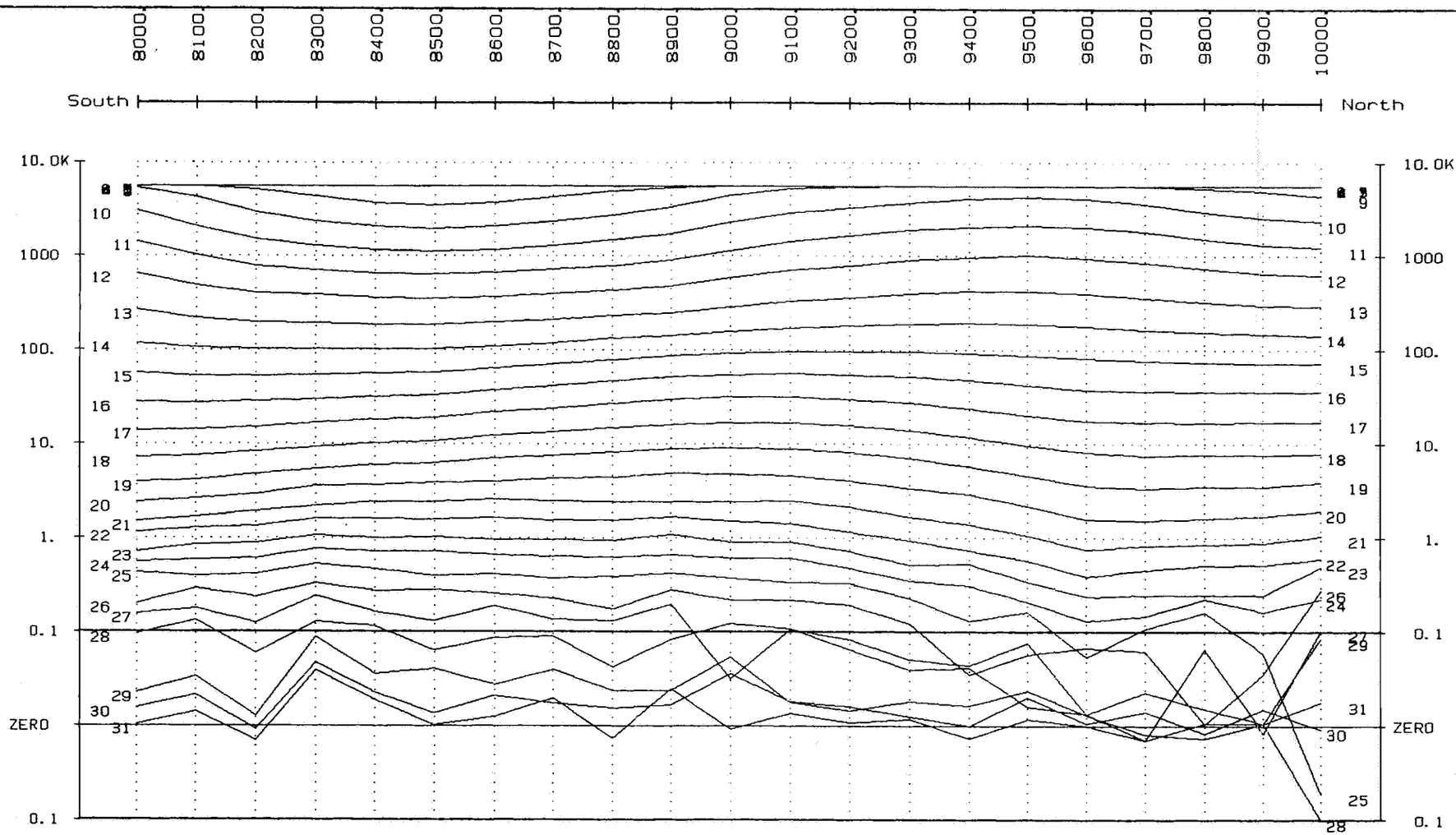
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Line 8600 E
BROKEN JAW
for
CRA EXPLORATION PTY LTD

Field Job 290
ZONGE ZPLOT 7.12
Plotted 04 Jan 96

TRANSIENT EM SURVEY DATA
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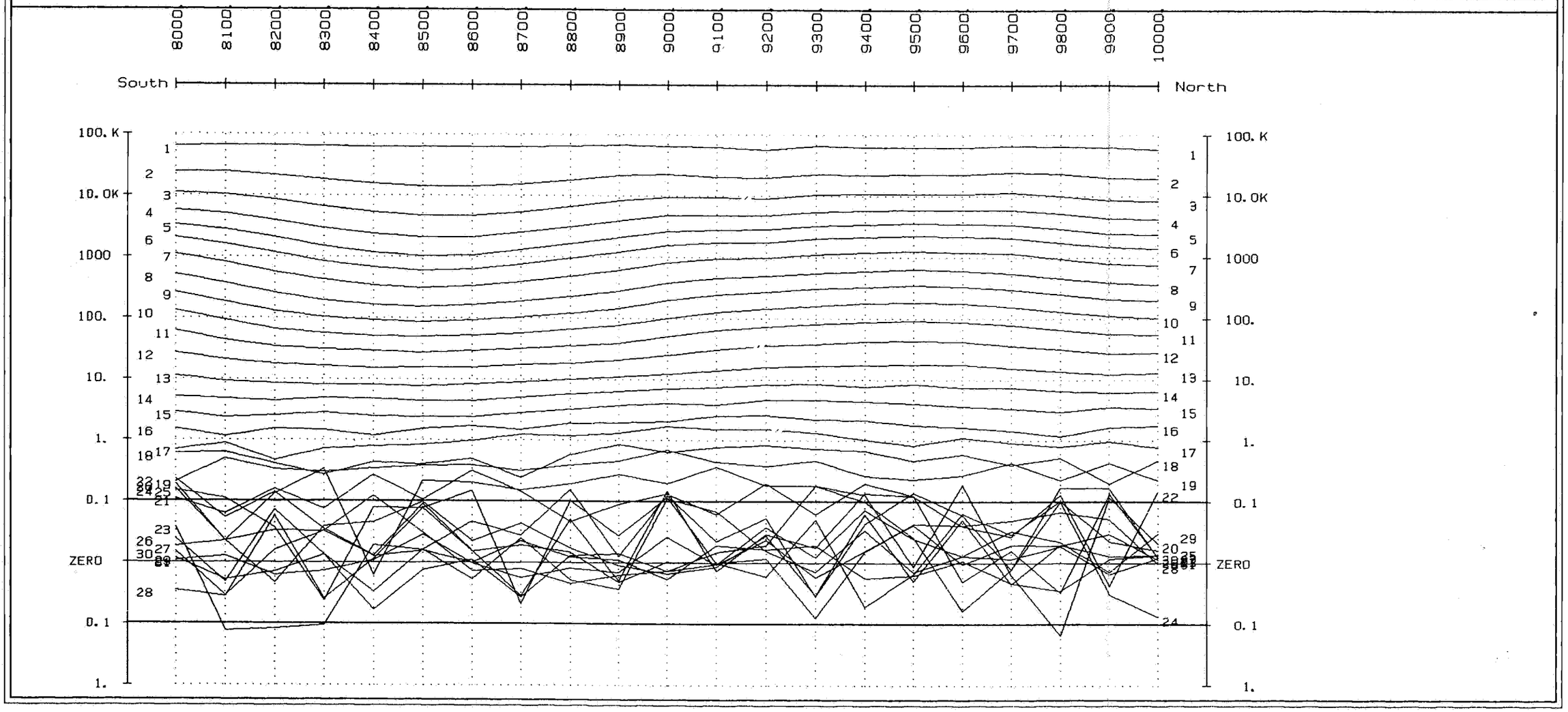
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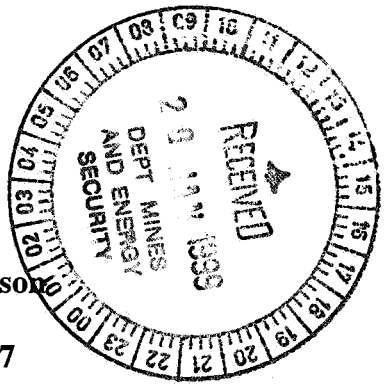
R98/00042

Rio Tinto Exploration Pty. Limited

A.C.N. 000 057 125

A member of the Rio Tinto Group

EL2016 "Deep Well Dam", Curnamona Project
Third Annual Report
for the Period 2nd September 1996 to 1st September 1997
1:250,000 Curnamona SH54-14
South Australia, Australia



Author: Robert Parkinson

Date: November 1997

Submitted to: Chief Geologist - South East District

Copies to: Mines and Energy - South Australia (x2)
Rio Tinto Exploration, GER - Melbourne
Rio Tinto Exploration, South East District - Melbourne

Submitted by: _____

Accepted by: _____

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Exploration Report No. 23702

Abstract
Exploration Licence EL 2016, "Deep Well Dam", comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet.

EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited (Rio Tinto). Rio Tinto is exploring EL 2016 for Zn and Cu-Au deposits of sufficient size to meet corporate objectives.

No field activities were undertaken on "Deep Well Dam" during the current period.

An exploration model for stratiform mineralisation within the carbonaceous pelitic sequences in the upper portions of the Willyama Supergroup has been developed. A study of the Pelite Suite has been initiated to identify where stratiform shale-hosted mineralisation may be best developed within the Curnamona Province.

The Pelite Suite Study will be used to guide further exploration on EL 2016. Based on the results of this study, additional work will include:

- air-borne EM survey
- regional air-core traverses over favourable target areas

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List of Plans

Plan No.	Title	Scale
SAa 6284	Deep Well Dam EL 2016, SA Location Plan	1:250 000

1. Conclusions and Recommendations

The Pelite Suite Study will be used to guide further exploration on EL 2016. Based on the results of this study, additional work will include:

- air-borne EM survey
- regional air-core traverses over favourable target areas

Compilation of previous exploration results should continue, combined with a more comprehensive review of prior work. This will be partly addressed within the Pelite Suite Study.

2. Introduction

Exploration Licence EL 2016, "Deep Well Dam", comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet (plan SAa 6284). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited (Rio Tinto).

"Deep Well Dam" is subject to Native Title claims by the Kuyani Association (SC95/4), Anderson/Adnymathana (SC97/1) and Adnymathana (SC97/2).

Rio Tinto is exploring EL 2016 for Zn and Cu-Au deposits of sufficient size to meet corporate objectives. Potential mineralisation styles include stratabound Zn in Pelite suite, Cu/Au in albite-magnetite rocks in the upper portion of the Quartzo-feldspathic suite (eg. Waukaloo), intrusive related U/Cu/Au (eg. Billeroo), stratabound massive sulphide Cu/Zn/Co/Mn in Bimba Formation (eg. Mt Howden), Slate-hosted gold (eg. Dome Rock) and supergene Cu/Au (eg. Kalkaroo, Portia).

This report details all exploration by Rio Tinto for the third year of tenure, covering the period 2nd September 1996 to 1st September 1997.

3. Review of Previous Work

3.1 Prior to Current Tenement

A review of previous exploration in the Deep Well Dam licence area has not been completed, and is recommended for 1998.

3.2 During Current Tenement

Exploration in current EL 2016 is summarised below:

1st year of tenure (2/9/94 - 1/9/95) - CRAE Report No. 21178.

- 100m line-spaced airborne magnetic and radiometric survey
- Regional helicopter-supported, high-iron lag sampling (91 samples @ 1 per 4 km^2). An area of Au-Pb-Zn anomalism was identified in the north of the licence area and requires follow up.

- CSAMT (2.5 line km). No significant anomalies were identified.
- 7.2 line km of In-Loop TEM at Deep Well Dame Prospect and Claypan South Prospect
- 0.6 line km of 100m dipole-dipole IP. No significant anomalies were detected.
- Three RAB holes and ground magnetic traverses over a remanent-magnetised anomaly. Up to 700ppm Cu identified in Pelites adjacent to a mafic? Intrusive, interpreted as the source of the magnetic anomaly.

2nd year of tenure (2/9/95 - 1/9/96) - CRAE Report No. 23009

- Geocoded Landsat TM data purchased over EL 2016. Interpretation is required.
- TEM traverses (four lines for 6.2 line km) at Claypan North, Broken Jaw and Lignum West prospects. None of the traverses recorded any late time anomalies.

4. Exploration Completed in 12 Months ending 1st September 1997

Exploration on "Deep Well Dam" during the reporting period included:

Regional

- Pelite Suite Study
- Magnetic image production
- Geochemical data compilation

4.1 Regional

4.1.1 Pelite Suite Study

Rio Tinto Exploration recognises potential for stratiform Zn-Pb-Ag mineralisation within the Pelite Suite of the Olary Domain, part of the Curnamona Province. Conceptual studies comparing geological and mineralisation characteristics of the Mount Isa Inlier with the Curnamona Province suggest the carbonaceous pelitic sequences in the upper part of the stratigraphic column may potentially host stratabound zinc mineralisation analogous to the shale-hosted deposits of NW Qld.

In the Mount Isa Province, distribution and style of the major Zn-Pb ore deposits varies from metamorphic-hosted Pb-rich (Zn:Pb of 0.5) deposits in the lower parts of the stratigraphy (eg. Cannington, Pegmont) through to black shale-hosted Zn-rich (Zn:Pb of 2-10) deposits in the stratigraphically higher cover sequences (Mt Isa, Hilton, George Fisher, Century, MacArthur River). Dugald River occupies the transition between the deposit types.

By analogy with the Mt Isa Province, the Broken Hill deposit occupies the highly metamorphosed, lower stratigraphic "Cannington" position. The Pelite Suite is the analogous position to the Mt Isa-Lawn Hill cover sequences, but remains largely unexplored for shale-hosted mineralisation.

The base of the Pelite Suite is a regionally distinctive contact with the underlying Bimba Suite. The Bimba Suite is a thin (≤50m) unit dominated by calc-silicate and marble, with stratabound sulphide anomalous in Cu and Zn. Previous exploration in the Olary Domain has focused extensively upon the Bimba Suite.

The Pelite Suite is generally correlated with the Paragon Group of the Broken Hill Domain, however manganiferous banded iron formation, garnet-quartz rocks and laminated tourmalinites indicate basal parts of the Pelite Suite may correlate with the Broken Hill Group, host to the Broken Hill Pb-Zn-Ag orebody.

A Pelite Suite Study was initiated to identify stratigraphic, structural and geochemical parameters that may assist target prioritisation in the search for stratabound shale-hosted mineralisation. Aims are to:

- map the distribution of the Pelite Suite, in particular the basal contact with the Bimba Formation.
- erect a Pelite Suite stratigraphic column to assist targeting of favourable lithologies
- define geochemical variability and potential vectors to mineralisation
- locate structures that may influence the formation of ore deposits.
- recommend priority target areas.

This study is still in the early stages, nothing to report to date.

4.1.2 Magnetic Image Production

A set of 1:25 000 scale standard mapsheets of coloured total field, and contoured magnetic intensity were produced to aid future target selection.

4.1.3 Geochemical Data Compilation

Capture of geochemical data from competitor surveys commenced. This work continues.

5. Rehabilitation

No activities requiring rehabilitation were carried out in the period.

6. References

Stewart, WA	1995	Annual Report for Deep Well Dam EL 2016, South Australia for the period ended 1 September, 1995. CRAE report.
Moody, TC and McInnes, DJ	1996	Annual Report for the Period Ending 1 September, 1996. EL 2016 Deep Well Dam, South Australia. CRAE Report 23009.

7. Location

Curnamona	SH54-14	1:250 000

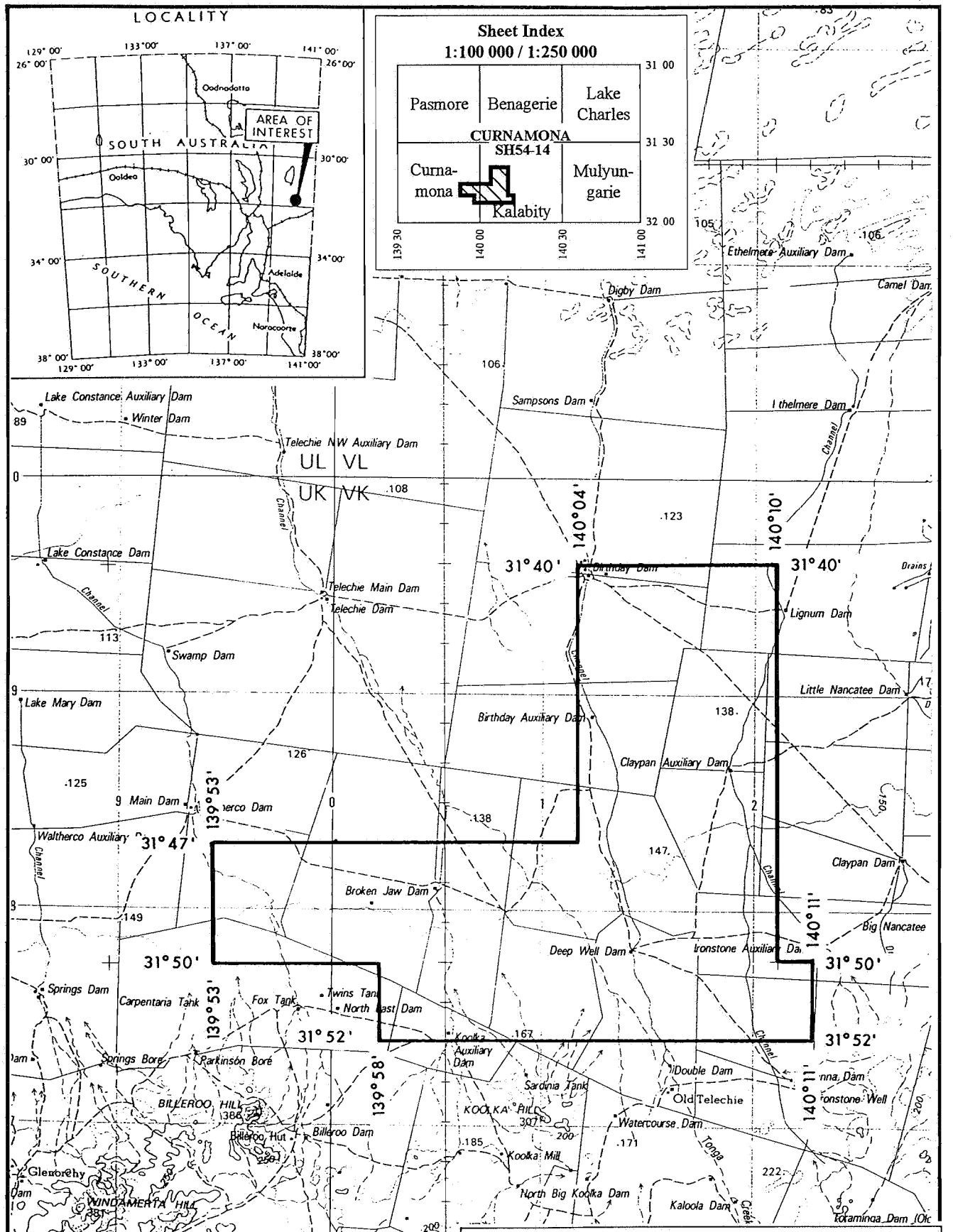
8. Keywords

Copper, Zinc, Proterozoic, Willyama Inlier, Olary Domain, Curnamona Province, Deep Well Dam.

9. Expenditure

Expenditure on EL 2016 for the period 2 September, 1996 to 1 September, 1997, as detailed in six-monthly returns is **$33,525.**

Total expenditure since grant on 2 September, 1994 is **$285,743.**



CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016-S.A.
LOCATION PLAN

Area 347 Km2

REFERENCE	CURNAMONA SH 54-14		
SCALE	1 : 250000		
AUTHOR	W.A.Stewart.	REPORT	23702
DATE	March 1997	PLAN No	SAa 6284

RIO
TINTO

Minerals and metals for the world

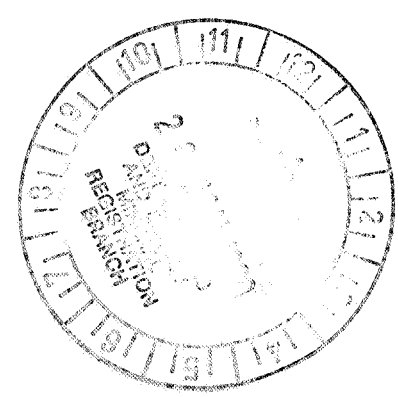
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Milton Qld 4064
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Rio Tinto Exploration Pty. Limited
A.C.N. 000 057 125
A member of the Rio Tinto Group

EL 2016 – Deep Well Dam
Fourth Annual Report
2/9/97 to 1/9/98

P. J. Hawke
January 1999

Report No. 24124



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RIO TINTO EXPLORATION PTY. LIMITED

EL 2016 – Deep Well Dam
Fourth Annual Report
2/9/97 to 1/9/98

P. J. Hawke
January 1999

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Rio Tinto Exploration Library, Brisbane
Rio Tinto Exploration Library, Perth

Date: January 1999

Report No.: 24124

P J Hawke.

Submitted By: P. J. Hawke
Senior Geophysicist

Accepted By: G. J. Drew
Chief Geologist
Eastern District

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ABSTRACT

This report describes results for Rio Tinto Exploration Pty. Limited's exploration activities for the reporting period ending 1st September, 1998 in EL 2016 "DeepWell Dam".

Activities during the period consisted of data review, interpretation of regional geophysics and geophysical surveys. TEM, ground magnetic and gravity data were acquired to test the prospective lower Pelite and Bimba horizon.

No significant anomalous targets were identified, however previously tested, metal enriched lower Pelite Suite was detected as a moderate conductor with a low gravity and magnetic response.

Future work will include geophysical mapping of prospective stratigraphy through the rest of the tenement area, and follow up of the low grade mineralisation intersected at the Birthday Dam prospect.

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   - 3.3 During 3rd year of tenure (2/9/96 – 1/9/97) – RTE Report No 23702 3
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LIST OF PLANS

Number	Contents	Scale
SAa 6284	Deep Well Dam EL 2016, SA Location Plan	1:250 000
SAb 1257	Deep Well Dam EL 2016, SA Summary of exploration activities	1:100 000
SAb 1258	Deep Well Dam EL 2016, Geophysical Interpretation	1:50 000
SAb 1259	Deep Well Dam EL 2016, Regional Line 21000E, TEM, gravity and ground magnetics	1:10 000
SAb 1260	Deep Well Dam EL 2016, Reconnaissance traverse TEM	1:25 000

LIST OF APPENDICES

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Appendix 1	Gravity Data Listing

1. CONCLUSIONS AND RECOMMENDATIONS

Activities completed during the period 2nd September, 1997 to 1 September, 1998 consisted of the acquisition and interpretation of geophysical data to assist the definition of prospective targets for future work. A review of previous work in the tenement area was also completed.

Interpretation of airborne magnetic data has identified a significant volume of prospective Bimba and Pelite Suite stratigraphy preserved in tight isoclinal synforms beneath 40-100 metres of recent cover. This horizon has been a historical focus for much of the exploration activity. An interpreted N-S gravity lineament may represent a deep structure controlling primary deposition within the Proterozioc basin.

One line of regional TEM, gravity and ground magnetics, and several reconnaissance TEM soundings were acquired. Several moderate conductor targets, which coincide with a low magnetic and gravity response, were identified. Drilling by CSR of two such features intersected elevated (100s ppm) Cu, Zn and Pb grades.

The most prospective area appears to be in a tight syncline of Pelite Suite near station 2000 on the reconnaissance EM traverse, where zinc grades in excess of 0.1% were intersected at the Birthday Dam prospect by CSR (Placer, 1994).

Further work in the tenement area should be focused toward identifying other areas of concealed Pelite Suite, and possible follow up to test the potential of the Birthday Dam area.

2. INTRODUCTION

Exploration Licence EL 2016, "Deep Well Dam", comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet (plan SAa 6284). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited (Rio Tinto).

Rio Tinto is exploring EL 2016 for Zn mineralisation of sufficient size to meet it's corporate objectives. Potential mineralisation styles include stratabound Zn in Pelite suite, or stratabound massive sulphide Cu/Zn/Co/Mn in Bimba Formation

This report details all exploration by Rio Tinto for the fourth year of tenure, covering the period 2nd September 1997 to 1st September 1998.

3. REVIEW OF PREVIOUS WORK

3.1 Prior to Current Tenement

Work was undertaken in the area of EL 2016 by CSR Ltd, and later Placer Exploration during the period 20 August 1986 to 17 May 1994. This work was completed under EL 1352, which became EL 1751 "Strathearn", and is detailed in full in statutory reporting by Placer (1990, 1994).

This work is summarised as follows:

CSR 1987 – *Birthday Dam Prospect*

- two traverses for 28 line km ground magnetics
- two traverses for 13 line kilometres Sirotem
- 18 drillholes totaling 1296.2 metres RC and 17.7 metres diamond drilling

Targeting of Bimba position using ground geophysics. Best result >4m @ 0.21% Zn in BD16

1988 – *Birthday Dam Prospect*

- one traverses for 28 line km ground magnetics
- one traverse for 2.0 line km of 100 m dipole-dipole IP.
- 13 RC drillholes totaling 1245 metres.
- One diamond drillhole to 262.2 metres (incl. 90m RC)

Program to continue testing of Bimba horizon. Best RC results: 1420 ppm Zn in BD24, 680 ppm Zn in BD31. Diamond hole (BDD1) targeted lower Pelite Suite as defined by geophysics. Elevated zinc (>500 ppm) intersected 70-115m, peaking to 0.14%.

While these results confirmed the presence of anomalous zinc chemistry, it was decided the area was not as prospective as the Hunter's Dam or Ram Dam prospects to the east.

Placer 1990 – *Ironstone Dam Prospect*

- four traverses for 9.0 line km ground magnetics
- two traverses for 2.7 line km Sirotem

Testing Bimba position. No significant conductors detected. No drilling recommended.

Lignum South Prospect

- one traverse for 2.4 line km ground magnetics
- one traverse for 1.4 line km 100 m dipole-dipole IP
- 5 RC drillholes totaling 478 metres

Targeting Bimba position from coincident magnetic and IP anomaly. Minor base metal anomalism intersected (max: 195 ppm Cu, 170 ppm Zn, 220 ppm Pb).

1991 – *Waltherco Hut Prospect*

- eight traverses for 26.4 line km ground magnetics
- one traverse for 1.6 line km 100 m dipole-dipole IP
- 7 RC drillholes totaling 446 metres

Work was primarily focused on Cu-Au mineralisation. Drill testing targeted a magnetically active zone and intersected aplite, granite gneiss and dolerite. Only low level anomalism detected (max: 590 ppm Cu, 5 ppb Au, 400 ppm Zn).

3.2 During Current Tenement

Exploration activities conducted by Rio Tinto Exploration in EL 2016 prior to 1st September 1996 are summarised in Parkinson (1997).

3.3 During 3rd year of tenure (2/9/96 – 1/9/97) – RTE Report No 23702

- A pelite suite study was undertaken to compare prospective stratigraphy Zn mineralisation with other major zinc provinces (particularly the Mt Isa Inlier). Initial results suggest the lower Pelite Suite to be a good potential host for a major stratiform Zn deposit.
- Geochemical data from open file reports were captured.

4. EXPLORATION COMPLETED IN 12 MONTHS ENDING 1ST SEPTEMBER 1998

Work completed in the 12 months to 1st September 1998 include:

- Geological interpretation from airborne magnetics
- One line of detailed gravity and TEM
- A traverse of regional TEM soundings

Locations of these surveys are summarised on Plan SAb 1257.

4.1 Interpretation of Airborne Magnetic Data

A magnetic interpretation was completed for a portion of EL 2016 is presented as Plan SAb 1258. Magnetic data were acquired by Kevron Pty Ltd for CRA Exploration during 1995. Full specifications of this survey are listed in Stewart, 1995. Gravity data from the 1996 BHEI 2x1 km regional gravity survey were also used in the interpretation.

The entire survey area is concealed beneath 40-100 metres (from historical drilling) of recent cover. Proterozoic basement is interpreted to consist of complexly folded stratigraphy of the lower Willyama Supergroup. The magnetic interpretation is based on the generalisation that the Quartz-Feldspar Suite (QFS) stratigraphy is magnetic, the Pelite Suite is non-magnetic, and the Bimba possesses a mixed magnetic response. The main exceptions to this are strongly altered QFS (through albitisation, or shearing in the "Middle Schist") which possess a weak magnetic signature.

Bimba and Pelite Suite is mapped in approximately 50% of the interpretation area. This stratigraphy is preserved in tight, isoclinal synforms, which have been refolded by some later event. Several NE-NNE trending thrusts are inferred. These are interpreted to be of similar age to the second generation of folding. Later faulting, generally trending to the NW are thought to be younger again.

A deep N-S lineament, trending through 415000mE 6495000mN, is apparent in the gravity data. This trend may represent a deep crustal structure, possibly associated with the original basin architecture.

4.2 Ground Geophysics

4.2.1 TEM Survey

Time domain electromagnetic data were acquired by Zonge Engineering in the Deep Well (EL 2016) tenement during April, 1998. One traverse of 10.0 kilometres with a 200 metre station interval (line 21000E) was completed. A regional traverse consisting of 13 soundings at an approximate 1000 metres interval was also collected ("Recon" line). Specifications for the survey are as follows:

Transmitter: GGT-25 S/N: 2015a
Transmitter configuration: in-loop (twin turn 200 metre square loop)
Transmitter frequency: 0.25 Hz
Receiver: GDP-32 S/N: 3204
Receiver coil: CRA95_C and RVR
Survey size: 64 stations
Survey cost (acquisition only): $ 5900

Four channels of TEM data were acquired at each station (gained and ungained data for both antennae). Repeats were assessed for data quality, then averaged. Time channels were merged using the ungained RVR receiver for the early time information, and gained RVR and CRAE coil data for the later times. Final averaged decays for lines 21000E and Recon are shown in Plans SAb 1259 and 1260.

Selected stations were inverted using the 1D "Grendel" algorithm within the EM vision software package.

4.2.2 Ground Magnetic Survey

Ground magnetic data were collected along 1.4 line km of TEM line 21000E near 92500N. Data were collected using a Scintrex Envimag line 21000E to assist location of the Bimba position. Samples were recorded at a 10m station interval at an elevation of 2 metres. Diurnal corrections were applied.

4.2.3 Gravity Survey

Gravity data were collected at 100 metre intervals along 3.7 km on line 21000E by Haines Surveys Pty Ltd during July 1998. Gravity data were collected using a Scintrex CG3, with locations surveyed by Kinematic GPS to an accuracy of better than +/- 10cm.

Data are leveled to the Isogal 84 datum, and tied to local AGSO base stations. Free Air and Bouguer Anomaly (2.67 g/cc) were computed by Haines. A listing of the data is included as Appendix 1.

4.2.4 Interpretation

Locations and interpretation of the EM data are shown on Plan SAb 1258. The data crosses complex structure, with both Albite and Pelite Suite interpreted below the Tertiary unconformity. Spot inversions show a near surface conductive layer (4 to 9 ohm-metres) with a thickness varying between 50 and 150 metres. Past drilling suggests the thickness of the Tertiary cover to be 40 and 70 metres, so the layer is interpreted to include both the cover and saprolite.

The EM response of fresh Proterozoic basement is separated into two classes: resistive basement with an interpreted resistivity of greater than 150 ohm-metres and more conductive basement with resistivities less than 50 ohm-metres as shown in the interpretation. In general, a resistive response correlated with the Albite Suite, and a more conductive response with the Pelite Suite.

Moderately conductive horizons are identified on line 21000E at 91500N to 92000N and 88500N to 89000N (the later is open to the

south). These coincide with local gravity and magnetic lows, and are interpreted as the lower (weakly graphitic) Pelite Suite on the limbs of a tight syncline with an axis at 90100N.

Ground magnetic, IP and RC drilling were completed by Placer Exploration at the northern conductive zone (Placer, 1994). This work also identified a conductor at this position, with a coincident chargeability anomaly between 91500 and 91700N. Shallow drilling tested the Bimba position yielding only slightly elevated basement metal concentrations.

Moderately conductive soundings were detected between stations 7000 to 9000 on the reconnaissance traverse. RC drilling by CSR at the Birthday Dam prospect (Placer, 1994) shows elevated basement zinc (380 ppm) in the lower Pelite Suite near station 7000. Secondary conductive targets are located at stations 2000 and 12000 (not closed). The best drill results by CSR, 0.2% zinc, is in a tight syncline of Pelite suite near station 2000.

5. REHABILITATION

No activities requiring rehabilitation were carried out in the period.

6. REFERENCES

Stewart, W.A., 1995 — Annual Report for Deep Well Dam EL 2016, South Australia for the period ended 1 September, 1995. CRAE report. 21178.

Parkinson, R.G., 1997 — Annual Report for Deep Well Dam EL 2016, South Australia for the period 2nd September 1996 to 1st September 1997. CRAE report 23720.

Placer Exploration, 1990 — EL 1352 Strathearn Exploration Report. Period to Feb 19, 1990. Placer report SA5/90.

Placer Exploration, 1994 — EL 1751 Strathearn, South Australia. Partial Relinquishment Report for period 20th August 1986 to 17th May 1994. Placer report SA5/94.

7. LOCATION

Curnamona	SH54-14	1:250 000

8. KEYWORDS

Zinc, Proterozoic, Olary Domain, Curnamona Province, Deep Well Dam, Geophysics, TEM survey, Gravity survey.

9. EXPENDITURE

Expenditure on EL 2016 for the period 2nd September, 1997 to 1st September, 1998, is **$63,008** as detailed in Table 1.

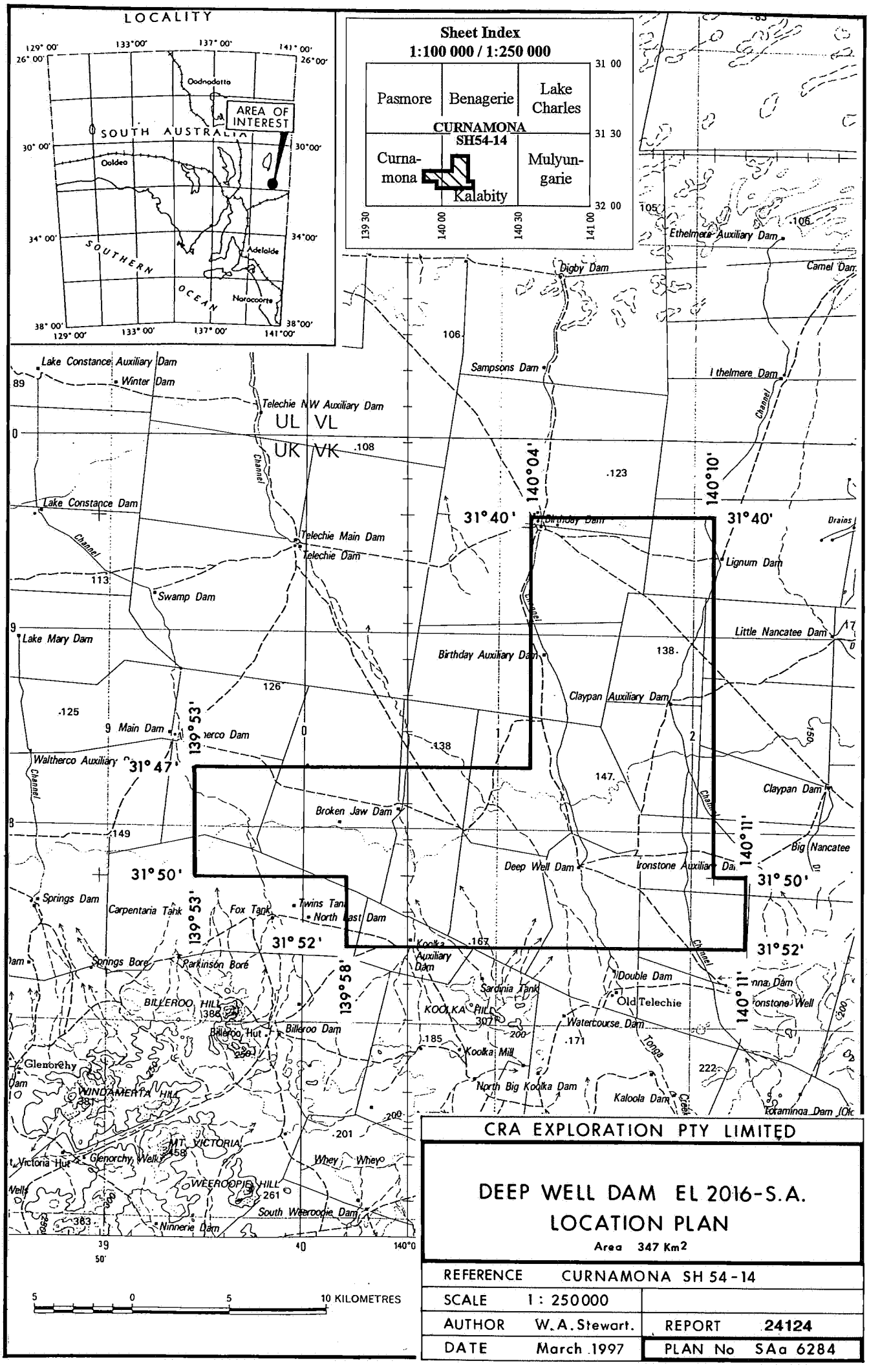
Table 1: Expenditure for the twelve month period ending 1st September 1998 for EL 2016 Deep Well Dam.

Activity	Cost ($) 2/9/97 – 1/9/98
Drilling	0
Contractors	12,241
Laboratory	0
Rent & Property	1,783
Payroll & Benefits	22,549
Field & Transport	2,216
Travel & Accommodation	691
Computer Services	1,061
Professional	50
Office & Miscellaneous	2,698
District Administration	7,779
Regional Indirect Costs	11,941
Total	63,008

Total expenditure since grant on 1st September, 1994 is **$348,751.**

10. DPO REGISTER

None to report.



CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016-S.A.
LOCATION PLAN

Area 347 Km2

REFERENCE	CURNAMONA SH 54-14		
SCALE	1 : 250000		
AUTHOR	W.A. Stewart.	REPORT	24124
DATE	March 1997	PLAN No	SAa 6284

395000 mE
400000 mE
405000 mE
410000 mE
415000 mE
420000 mE
6495000 mN
6490000 mN
6485000 mN
6480000 mN
6475000 mN
6470000 mN
-31°40'
-31°45'
-31°50'
139°55'
140°
140°05'
140°10'
98700N
92800N
88500N
Line 21000E
1000
Recon traverse
13000
Billeroo Hill
Koolka Hill
Old Telechie

Legend

- 1998 TEM sounding
- 1998 TEM traverse
- 1998 Ground magnetic traverse
- 1998 Gravity traverse

GN
MN
TN
Grid Convergence 0.4°
Grid-Magnetic Angle 7.8°

Topography: *AUSLIG Topo 250k Geodata Curnamona and Olary sheets*

Projection: *UTM AMG Zone 54*
Horizontal Datum: *AGD66*

South Australia
Adelaide

INDEX to adjoining map sheets

Pasmore 6835	Benagerie 6935	Lake Charles 7035
Curnamona 6834	**Curnamona SH54-14** Kalabity 6934	Mulyungarie 7034

100,000 & **250,000** map sheets

2 0 2 4 6
kilometres

RIO TINTO EXPLORATION PTY. LIMITED

Curnamona Project

Deep Well Dam EL 2016

Summary of Exploration Activities

Author: P.Hawke	Ref: Curnamona, SH54-14
Drawn: D.Moore	File Name: SAb1257.wor
Date: 8-1-99	Report No: 24124
Scale: 1:100 000	Plan No: SAb1257

140°
405000 mE
410000 mE
140°05'
415000 mE
420000 mE
140°10'
-31°40'
6495000 mN
6490000 mN
-31°45'
6485000 mN
6480000 mN
-31°50'
6475000 mN

Limit of Near Surface Magnetic character -v. thick Tertiary cover

EL boundary

Legend

- Pelite Suite
- - low density package
- - pyrrhotite & or BIF horizon
- Bimba Suite
- Albite Suite
- Albite Suite - Middle Schist
- Fault / Break
- Anticline
- Syncline
- Trend (bedding)

EM Interpretation

- Conductive basement
- Resistive basement
- Conductor target



INDEX to adjoining map sheets

Pasmore 6835	Benagerie 6935	Lake Charles 7035
	Curnamona SH54-14	
Curnamona 6834	Kalabity 6934	Mulyungarie 7034

100,000 & **250,000** map sheets

N

1000 0 1000 2000 3000
metres

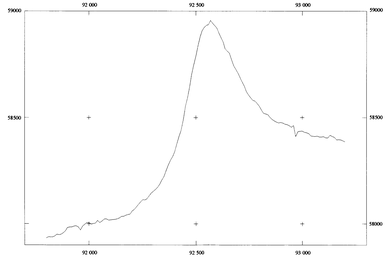
Projection: UTM, AMG Zone 54, Datum: AGD66

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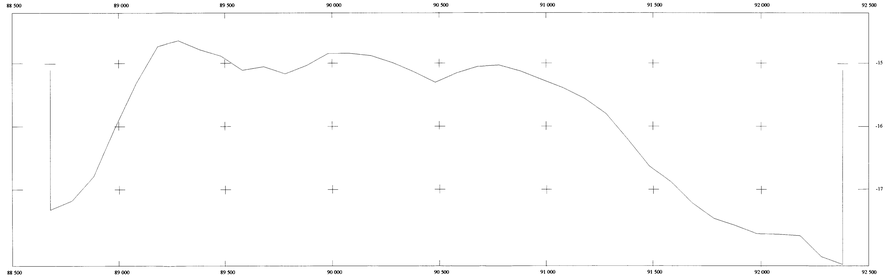
Deep Well Dam EL 2016

Geophysical Interpretation

Author: P.Hawke	Ref: Curnamona, SH54-14
Drawn: D.Moore	File Name: SAb1258.wor
Date: 11-1-99	Report No.: 24124
Scale: 1:50 000	Plan No.: SAb1258



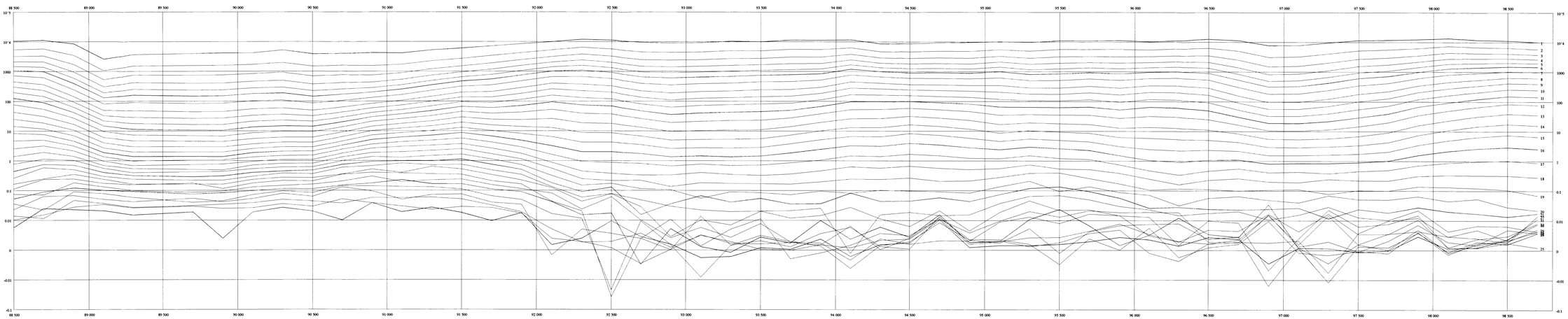
Magnetic Traverse
10m stations
(nT)



Gravity Traverse
100m stations
(mgals)

TEM Survey Completed by Zonge Engineering
Magnetic Traverse Completed by David Mckenna
1 km GPS stations Acquired during TEM
Survey undertaken in July 1998
Under instruction from David Mckenna

Gravity Survey Completed by Hanon Surveys
Stations located by EGPS
Survey undertaken in July 1998
Under instruction from Phil Hawke



Inloop TEM
Twin Turn 200m Tx Loop
200m moves
Sirotem + CRAE95 Antenna

Channel 1 : 0.998
Channel 2 : 1.426
Channel 3 : 2.037
Channel 4 : 2.463
Channel 5 : 2.991
Channel 6 : 3.770
Channel 7 : 4.102
Channel 8 : 5.252
Channel 9 : 6.050
Channel 10 : 7.267
Channel 11 : 8.373
Channel 12 : 10.018
Channel 13 : 13.334
Channel 14 : 16.494
Channel 15 : 20.374
Channel 16 : 25.254
Channel 17 : 31.514
Channel 18 : 39.754
Channel 19 : 49.774
Channel 20 : 62.574
Channel 21 : 78.334
Channel 22 : 98.434
Channel 23 : 124.094
Channel 24 : 156.054
Channel 25 : 195.894
Channel 26 : 246.094
Channel 27 : 309.094
Channel 28 : 388.094
Channel 29 : 487.894
Channel 30 : 613.094
Channel 31 : 771.094

Scale 1: 10 000
0 200 400 600 800
metres

Note: For location of line within tenement, See plan SAb1257

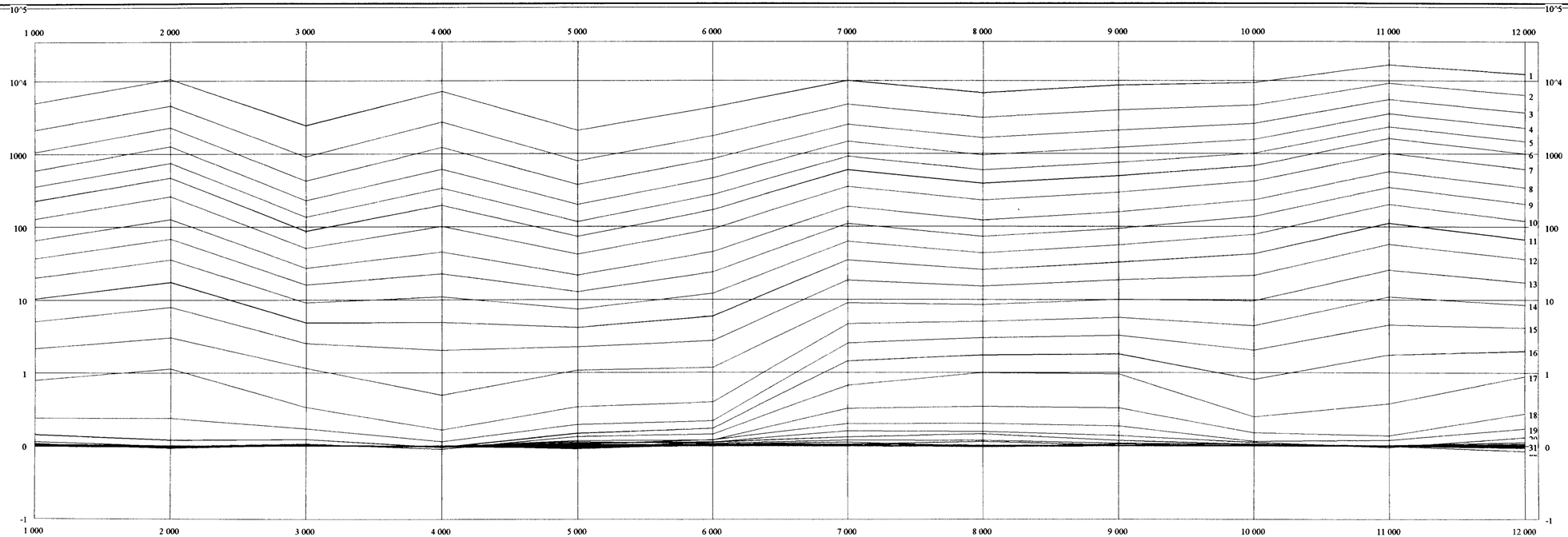
Rio Tinto Exploration Pty Limited

Deep Well Dam EL 2016

Regional TEM Line 21000E

Panel 1 is the Magnetic Traverse
(nT)
Panel 2 is the Gravity Traverse
(mgals)
Panel 3 is Inloop TEM
(uV/A)

Author : PJHawke	Ref : Curnamona, SH54-14
Drawn : PJHawke	File Name : SAb1259.cdr
Date : 27-May-1998	Report No : 24124
Scale 1: 10 000	Plan No : SAb 1259



Scale 1: 25 000

0 500 1000 1500 2000

meters

Rio Tinto Exploration

Deep Well Dam EL 2016

Reconnaisance TEM traverse

Inloop TEM
(uV/A)

Author : Phil Hawke	Ref : **Curnamona, SH54-14**
Drawn : Phil Hawke	
Date : 15-Jan-1999	Report No : 24124
Scale 1: 25 000	Plan No : SAb 1260

Appendix 1

EL 2016 –Deep Well Dam

Gravity Data Listing

Survey	Contractor	Date	AMGE	AMGN	localx	localy	(AHD)	anom267	terrain	freeair	obs84	raw	d corr'd	date	time	serial #	error (SD)
Deep Well	Haines	Aug, 1998	420763.4	6488869	21000	88700	136.682	-17.318	*	42.18	979417.4	4707.25	4707.232	18/08/98	9:44:21	408276	0.045
Deep Well	Haines	Aug, 1998	420695.2	6488940	21000	88800	136.745	-17.173	*	42.2	979417.5	4707.335	4707.313	18/08/98	10:07:43	408276	0.039
Deep Well	Haines	Aug, 1998	420624.2	6489012	21000	88900	136.995	-16.785	*	42.277	979417.8	4707.62	4707.598	18/08/98	10:10:03	408276	0.041
Deep Well	Haines	Aug, 1998	420554	6489086	21000	89000	137.276	-16.012	*	42.363	979418.5	4708.285	4708.262	18/08/98	10:12:26	408276	0.033
Deep Well	Haines	Aug, 1998	420481.5	6489158	21000	89100	136.693	-15.304	*	42.183	979419.2	4709.055	4709.032	18/08/98	10:14:45	408276	0.038
Deep Well	Haines	Aug, 1998	420410.6	6489228	21000	89200	136.32	-14.727	*	42.068	979419.8	4709.655	4709.631	18/08/98	10:16:46	408276	0.026
Deep Well	Haines	Aug, 1998	420344.1	6489294	21000	89300	136.629	-14.632	*	42.164	979419.8	4709.64	4709.616	18/08/98	10:18:51	408276	0.048
Deep Well	Haines	Aug, 1998	420274.2	6489364	21000	89400	136.408	-14.775	*	42.096	979419.7	4709.49	4709.465	18/08/98	10:22:20	408276	0.037
Deep Well	Haines	Aug, 1998	420201.8	6489438	21000	89500	136.435	-14.876	*	42.104	979419.5	4709.33	4709.305	18/08/98	10:24:37	408276	0.046
Deep Well	Haines	Aug, 1998	420137.1	6489505	21000	89600	136.517	-15.102	*	42.129	979419.2	4709.04	4709.014	18/08/98	10:26:58	408276	0.041
Deep Well	Haines	Aug, 1998	420075.7	6489567	21000	89700	136.451	-15.044	*	42.109	979419.3	4709.065	4709.039	18/08/98	10:30:00	408276	0.05
Deep Well	Haines	Aug, 1998	420006.9	6489638	21000	89800	136.885	-15.157	*	42.243	979419	4708.815	4708.788	18/08/98	10:33:54	408276	0.041
Deep Well	Haines	Aug, 1998	419941.2	6489707	21000	89900	136.438	-15.025	*	42.105	979419.2	4708.985	4708.958	18/08/98	10:36:18	408276	0.035
Deep Well	Haines	Aug, 1998	419868.4	6489782	21000	90000	135.975	-14.837	*	41.962	979419.4	4709.21	4709.182	18/08/98	10:38:41	408276	0.04
Deep Well	Haines	Aug, 1998	419802.2	6489850	21000	90100	135.898	-14.833	*	41.938	979419.4	4709.185	4709.151	18/08/98	11:12:08	408276	0.033
Deep Well	Haines	Aug, 1998	419729	6489924	21000	90200	135.888	-14.871	*	41.935	979419.3	4709.095	4709.061	18/08/98	11:14:31	408276	0.032
Deep Well	Haines	Aug, 1998	419661.9	6489993	21000	90300	135.801	-14.983	*	41.908	979419.1	4708.95	4708.915	18/08/98	11:17:45	408276	0.041
Deep Well	Haines	Aug, 1998	419593.7	6490062	21000	90400	135.04	-15.124	*	41.673	979419.1	4708.91	4708.873	18/08/98	11:30:05	408276	0.035
Deep Well	Haines	Aug, 1998	419525.5	6490132	21000	90500	134.907	-15.295	*	41.632	979418.9	4708.715	4708.677	18/08/98	11:33:03	408276	0.057
Deep Well	Haines	Aug, 1998	419455.1	6490206	21000	90600	134.87	-15.148	*	41.621	979419	4708.815	4708.777	18/08/98	11:35:15	408276	0.035
Deep Well	Haines	Aug, 1998	419378.6	6490285	21000	90700	135.106	-15.045	*	41.694	979419	4708.815	4708.776	18/08/98	11:37:31	408276	0.05
Deep Well	Haines	Aug, 1998	419316.2	6490349	21000	90800	135.042	-15.026	*	41.674	979419	4708.8	4708.76	18/08/98	11:43:30	408276	0.041
Deep Well	Haines	Aug, 1998	419248.9	6490418	21000	90900	135.279	-15.119	*	41.747	979418.8	4708.61	4708.57	18/08/98	11:45:52	408276	0.026
Deep Well	Haines	Aug, 1998	419179.6	6490490	21000	91000	135.024	-15.252	*	41.668	979418.6	4708.475	4708.434	18/08/98	11:48:17	408276	0.032
Deep Well	Haines	Aug, 1998	419110.1	6490562	21000	91100	134.439	-15.384	*	41.488	979418.6	4708.405	4708.364	18/08/98	11:51:40	408276	0.028
Deep Well	Haines	Aug, 1998	419045.5	6490628	21000	91200	134.103	-15.553	*	41.384	979418.4	4708.255	4708.213	18/08/98	11:53:43	408276	0.036
Deep Well	Haines	Aug, 1998	418971.9	6490705	21000	91300	133.824	-15.796	*	41.298	979418.2	4708.01	4707.968	18/08/98	11:56:22	408276	0.042
Deep Well	Haines	Aug, 1998	418900.5	6490776	21000	91400	133.57	-16.195	*	41.22	979417.8	4707.61	4707.567	18/08/98	11:58:54	408276	0.044
Deep Well	Haines	Aug, 1998	418831.1	6490849	21000	91500	133.902	-16.622	*	41.322	979417.2	4707.07	4707.021	18/08/98	12:34:42	408276	0.04
Deep Well	Haines	Aug, 1998	418757.7	6490925	21000	91600	134.4	-16.869	*	41.476	979416.8	4706.67	4706.62	18/08/98	12:37:09	408276	0.045
Deep Well	Haines	Aug, 1998	418692	6490993	21000	91700	134.489	-17.211	*	41.503	979416.4	4706.26	4706.21	18/08/98	12:39:42	408276	0.034
Deep Well	Haines	Aug, 1998	418626.3	6491061	21000	91800	134.193	-17.456	*	41.412	979416.2	4706.025	4705.974	18/08/98	12:43:01	408276	0.031
Deep Well	Haines	Aug, 1998	418560.6	6491130	21000	91900	133.814	-17.569	*	41.295	979416.1	4705.935	4705.884	18/08/98	12:45:49	408276	0.026
Deep Well	Haines	Aug, 1998	418493.5	6491200	21000	92000	133.75	-17.697	*	41.275	979415.9	4705.77	4705.718	18/08/98	12:48:05	408276	0.044
Deep Well	Haines	Aug, 1998	418428.6	6491267	21000	92100	134.339	-17.707	*	41.457	979415.8	4705.595	4705.543	18/08/98	12:50:08	408276	0.031
Deep Well	Haines	Aug, 1998	418360.3	6491337	21000	92200	134.721	-17.73	*	41.575	979415.6	4705.445	4705.393	18/08/98	12:52:34	408276	0.033
Deep Well	Haines	Aug, 1998	418292.9	6491407	21000	92300	134.521	-18.064	*	41.513	979415.3	4705.1	4705.047	18/08/98	12:54:43	408276	0.035
Deep Well	Haines	Aug, 1998	418217.2	6491487	21000	92400	134.843	-18.187	*	41.613	979415	4704.855	4704.802	18/08/98	12:56:48	408276	0.046

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EL 2016 – Deep Well Dam, South Australia

Fifth Annual Report for the Period 2/9/98 to 1/9/99

October, 1999

PRIMARY INDUSTRIES & RESOURCES SA
26 OCT 1999
MINERAL RESOURCES

Report No. 24185

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EL 2016 – Deep Well Dam, South Australia

Fifth Annual Report for the Period 2/9/98 to 1/9/99

D. C. Palmer

October, 1999

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Abstract

No field work has been undertaken within EL 2016 Deep Well Dam during the reporting period.

Work activities were limited to the on-going office-based assessment of Curnamona Project data pertinent to EL 2016.

Future work programmes within EL 2016 Deep Well Dam will be dependent upon the final assessment of 1999 field season exploration completed within Pelite Suite sequences elsewhere within the Curnamona Project area.

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List of Plans

Plan No.	**Plan Title**	**Plan Scale**
SAa 6284	Deep Well Dam EL 2016, SA Location Plan	1:250 000
SAb 1257	Summary of Exploration Activities	1:100,000

1. Conclusions and Recommendations

No field programes were completed within EL 2016 during the tenure year. Work activities were focused within contiguous EL 2554 Kalabity, where significant integrated drilling/ground geophysical programes were recently completed.

Future work within EL 2016 are dependent upon final assessment of 1999 field season exploration programmes completed within adjacent tenements in the Curnamona Project area.

The following recommendations are made:

Geological interpretation of the metamorphic basement should be extended to cover the western portion of EL 2016.

The locational accuracy and effectiveness of historic RAB drilling data in areas of shallow cover needs to be assessed in light of aircore results obtained at Dayanna Prospect within adjacent EL 2554 Kalabity.

Open file drilling geochemical data and observations requires closer integration with interpreted regional geophysical data.

The structural and regional stratigraphic context of basemetal occurrences within EL 2016 needs to be determined.

Semi-regional IP surveying (1000-2000m line spacing) with coincident gravity and limited ground magnetic data should be conducted over interpreted Pelite Suite and Bimba Formation within the EL to:

- Aid stratigraphic interpretation in areas of Tertiary cover
- Estimate cover thickness
- Identify direct targets (conductors) for sulphide accumulation, particularly within the Lower and Upper Pelite Suite stratigraphy.

2. Introduction

Exploration Licence 2016 Deep Well Dam, comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet (Plan SAb 1257). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited (Rio Tinto).

EL 2016 Deep Well Dam forms part of Rio Tinto's Curnamona Zinc Project located within the Northern Olary Domain of the Curnamona Province (Figure 1).

Rio Tinto is exploring EL 2016 for a basemetal deposit of sufficient size to meet it's corporate objectives. Potential mineralisation styles include stratabound/stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite and stratabound massive sulphide Cu/Zn/Co/Mn in the Bimba Formation.

This report details all exploration by Rio Tinto for the fifth year of tenure, covering the period 2nd September 1998 to 1st September 1999.

3. Geology

The following synopsis of the regional geology and mineralisation is modified from Parkinson (1997b).

EL 2016 Deep Well Dam is situated in the southern portion of the Paleoproterozoic-to-Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain of the Curnamona Craton.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain, together the two Domains forming the Willyama Inlier (e.g. Laing, 1996; Clarke et al., 1986; Willis et al., 1983).

The Willyama Supergroup is interpreted to have been deposited within an ~1780-1680 Ma intracratonic rift and rift-platform basin. Geochronology of rock type emplacement, intrusive events, metamorphism and deformation are discussed in Clarke et al. (1986) and a further summary of the Olary Domain geology is provided by Plimer (1996).

3.1 Stratigraphy

Metamorphic lithologies in the Olary Block have been divided into five major rock suites (Clarke et al., 1986). These include:

Composite Gneiss Suite - basal unit consisting mostly of coarse-grained and migmatitic gneiss grading to massive leucocratic granitoids with large areas of anatexis.

Quartzofeldspathic Suite ("QFS")- This forms a significant component of the exposed Olary Block and is considered equivalent to the Thackaringa Group in the Broken Hill Block. The lower portions of the suite include massive-layered albite-quartz rocks ("Lower Albite"), interpreted as felsic volcanics or volcaniclastic sediments and co-magmatic A-type granitic intrusives. The middle portion of the suite includes mostly psammopelitic and pelitic schist ("Middle Schist") and composite gneiss. Uppermost are finely laminated often magnetic albite-quartz rocks termed the "Upper Albite Suite". This unit is interpreted to occur as NNE-trending tight anticlines in the eastern portion of the EL.

Calc-silicate Suite - Possibly equivalent to the Ettlewood Calc-silicate Member of the Broken Hill Domain and laterally and vertically gradational from the upper portions of the Quartzofeldspathic Suite. Rock types in this

suite are characterised by quartzofelspathic rocks with abundant calc-silicate minerals grading to well laminated calc-silicate rocks and strongly hydrothermal altered/albite-actinolite-diopside altered breccias with locally important sulphide mineralisation.

Bimba Suite - This suite forms an extensive marker horizon in the Olary District, consisting of psammopelitic and pelitic schist grading to calc-silicate rocks, carbonate-rich rocks, quartz-albite rocks and local iron formations. Rock types in the Bimba Suite are typically laminated and strongly sulphidic with sulphide veins and occasional massive sulphide that are commonly represented by gossan at surface. The Bimba Suite typically overlies a prominent magnetic marker horizon at the top of the Calc-silicate Suite/"Upper Albite" and is interpreted to occur as a series of tight NNE-trending synforms throughout the EL.

Pelite Suite - The upper-most suite in the Olary Block, the Pelite Suite is characterised by pelitic-psammopelitic and psammitic sediments forming tight NNE-trending synforms throughout the EL.

The sharp contact between the Pelite Suite and underlying Bimba Suite may represent a regional unconformity (e.g. Plimer, 1996; Ashley et al., 1995). The basal parts of the Pelite Suite are commonly strongly graphitic, and contain distinctive chiastolites ± pyrrhotite. In addition, in the basal layers, manganese enriched zones, garnetiferous beds (grading to garnet sandstone) and tourmaline rich rocks are recorded.

A recent tectono-stratigraphic synthesis by Laing (1996) has introduced several new stratigraphic subdivisions and an alternative stratigraphic nomenclature. This interpretation subdivides the Olary Block into several structural domains, each with contrasting stratigraphic assemblages, which are broadly correlatable. This suggests many of the domain-boundary faults were also important features of the early basin architecture, potentially important for controlling mineralisation and hydrothermal alteration.

3.2 Granites

At least three granite suites are recognised in the Olary Block.

The oldest granitoid suite occurs within the lower part of the Quartzofelspathic Suite. These have A-type affinity and are probably co-magmatic with interpreted felsic volcanics of the "Lower Albite". Dating zircons has returned ages of 1703±6 Ma, 1701±8 Ma and 1717±14 Ma (Cook et al., 1994).

A volumetrically minor I-type granite suite returned zircon ages of 1629±12 Ma and 1641±11 Ma (Cook et al., 1994). This suite is potentially genetically

associated with Cu-Au mineralisation in the contact aureoles to these granites.

A third suite is generally referred to as regional S-type granitoids. These are typically leucocratic massive to foliated S-type or highly fractionated I-type 2-mica granitoids. These are common in the Olary Block and have returned zircon dates of ~1590 Ma. Pegmatites associated with these granites are locally associated with minor economic concentrations of uranium, beryl, feldspars, muscovite and columbite-tantalite (Plimer, 1996) and possibly associated with Cu-Au mineralisation in the northern and northeast portions of the Olary Block.

S-type sodic granites locally associated with U-Th mineralisation occur in the northwest portion of the Olary Block with ages of ~1580 Ma (Cook et al., 1994). More mafic granitoids also occur in the north west of the Olary Block (Plimer, 1996).

Delamerian granitoids possibly intrude the Olary Block but are unconfirmed.

3.3 Structure & Metamorphism

The area is characterised by intense multiple deformation and metamorphism which has significantly disturbed primary stratigraphy. Maximum metamorphic grade in the tenement area is upper greenschist to amphibolite facies.

Two major periods of deformation have been recognised in the Olary Block associated with the Paleoproterozoic Olarian Orogeny and Cambro-Ordovician Delamerian Orogeny (e.g. Clarke et al., 1986; Flint & Parker, 1994).

OD1, OD2 and OD3 are associated with the Olarian Orogeny at ~1590 ± 20 Ma (Plimer, 1996). These probably represent a progressive deformation style characterised by nappe development, refolding and prograde metamorphism during OD1 & OD2 and further refolding and extensive retrograde shearing and metamorphism during OD3. However, a possible younger age of 1500 ± 20 Ma for OD3 is referred to in Plimer (1996). Peak metamorphism in the Broken Hill Block has been dated at 1670-1600 Ma and coeval with the I-type granite suite (Flint & Parker, 1994). However, most of the foliated granite gneiss, migmatite, pegmatite and regional granitoids in the Olary Block are probably closely related to OD1 and OD2 (op cit.).

Two phases of deformation and fold development are associated with the Delamerian Orogeny (DD1 and DD2) with dates ranging from 450-550 Ma. Significant metal migration probably occurred during development of the

rift-basin, burial and diagenesis and subsequently during the Olarian Orogeny. However, locally significant remobilisation of ore metals and development of structurally controlled base and precious metal mineralisation also occurred during Delamerian deformation.

3.4 Mineralisation

Mineralisation in the Olary Block is discussed in Cook & Ashley (1992) and Ashley et al. (1994). Numerous small copper and copper-gold, minor zinc-lead-silver and uranium workings/prospects throughout the Olary Block.

Extensive epigenetic/fracture controlled chalcopyrite with minor gold mineralisation has been identified in brecciated magnetite-albite rocks in the upper part of the Quartzofeldspathic Suite at Waukaloo and in the Portia area.

The upper parts of the Calc-silicate Suite are associated with regionally anomalous low-grade zinc mineralisation over stratigraphic intervals up to 100 m thick (Flint & Parker, 1994). This suite typically exhibits regional-scale alteration including widespread albitisation, iron/calc-silicate alteration ± magnetite.

The Bimba Formation has been the focus of previous exploration activity. This unit is characterised by regional/strike extensive elevated basemetal geochemistry and gossans. The Bimba Formation hosts the Cu-Co mineralisation at Mt. Howden within adjacent EL 2554 Kalabity and Cu-Zn-Ba (Pb-Ag) mineralisation at the "Old Boolcamata-Blue Dam area. Copper and minor zinc mineralisation at the Telechie and Telechie South prospects in adjacent EL 2554 are also interpreted to occur at the Bimba stratigraphic position.

Exploration has identified elevated base metal geochemistry in the Pelite Suite at a number of localities. At Hunter's Dam prospect (El 2310 Yarramba), drilling has encountered stratabound zinc-lead mineralisation (106.9m @ 0.57% Zn, 0.12% Pb) within psammopelitic and pelitic sediments of the Pelite Suite and Bimba Formation.

Anomalous basemetal values occur within Pelite Suite at Birthday Dam Prospect and the Bimba Formation at Lignum South Prospect with EL 2016 Deep Well Dam.

A variety of unusual quartz-magnetite-garnet-apatite banded iron formations and Mn-rich garnet-quartz rocks of probable hydrothermal origin have also been identified in the lower parts of the Pelite Suite (Lottermoser et al., 1994).

Ba and K anomalous horizons are also noted associated with variably magnetic horizons within the Quartzofeldspathic Suite and Pelite Suite.

Due to subdued/poor exposure, the Pelite Suite has received minor exploration focus. This suite is regarded as highly prospective for stratiform/stratabound sediment-hosted base metal mineralisation, akin to the Mt. Isa and Century Zn (Ag-Pb) deposits in the Mt. Isa Inlier.

Other mineralisation styles recognised within the Olary Block include;

- Copper-gold mineralisation associated with iron formations similar to deposits in the Mt. Isa Inlier (e.g. Starra) or in structurally-focused iron-rich alteration systems in the contact aureole around certain granites. Large disseminated/stratabound copper and/or gold deposits are also possible.

- Supergene (enriched) copper-gold mineralisation in areas of deep weathering over large areas of low-grade sulphide copper-gold mineralised basement (Portia-style).

- U, Th and REE mineralisation in veins, breccias and stockworks associated with granite and pegmatite (Plimer, 1996).

- Uranium mineralisation associated with a redox interface with Eocene Eyre Formation fluviatile sands at Honeymoon, East Kalkaroo and Yarramba prospects

4.0 Review of Previous Work

4.1 Prior to Current Tenement

Previous exploration undertaken within EL 2016 is reviewed in Hawke (1999).

4.1.1 Summary

Previous exploration in the area of EL 2016 was undertaken by CSR/Placer as part of EL 1352 Strathearn (later EL 1751). Exploration programes were primarily focussed on stratiform Cu-Au and Zn-Pb mineralisation within the Bimba and Upper Albite stratigraphic sequences.

Target areas were selected from aeromagnetics, with limited follow-up using ground electrical geophysics, RC and diamond drilling. Best results were 4m @ 0.21% Zn in BD16, at Birthday Dam prospect (Placer, 1990 and 1994).

4.2 During Current Tenement

1st year of tenure (2/9/94 – 1/9/95) – CRAE Report No. 21178.

- 100m line-spaced airborne magnetic and radiometric survey
- Regional helicopter-supported, high-iron lag sampling (91 samples @ 1 per 4 km^2). An area of Au-Pb-Zn anomalism was identified in the north of the licence area and requires follow up.
- CSAMT (2.5 line km). No significant anomalies were identified.
- 7.2 line km of In-Loop TEM at Deep Well Dam Prospect and Claypan South Prospect
- 0.6 line km of 100m dipole-dipole IP. No significant anomalies were detected.
- Three RAB holes and ground magnetic traverses over a remanent-magnetised anomaly. Up to 700ppm Cu identified in Pelites adjacent to a mafic? intrusive, interpreted as the source of the magnetic anomaly.

2nd year of tenure (2/9/95 – 1/9/96) – CRAE Report No. 23009

- Geocoded Landsat TM data purchased over EL 2016. Interpretation is required.

- TEM traverses (four lines for 6.2 line km) at Claypan North, Broken Jaw and Lignum West prospects. None of the traverses recorded any late time anomalies.

3rd year of tenure (2/9/96 – 1/9/97) – Rio Tinto Report No. 23702

- A Pelite Suite study was undertaken to compare the Zn prospective Pelite Suite stratigraphic succession with other major zinc provinces (particularly the Mt Isa Inlier). Initial results suggest the lower Pelite Suite to be a good potential to host stratiform Zn mineralisation.
- Geochemical data from open file reports were captured.

4th year of tenure (2/9/97 – 1/9/98) – Rio Tinto Report No. 24124

- Geological interpretation of airborne magnetics and regional gravity data over the eastern portion of EL 2016, identified Bimba and Pelite Suite stratigraphy preserved in a series of NNE-trending isoclinal synforms, beneath 40-100 metres of sediment cover
- One line of detailed gravity and TEM was undertaken in the northeastern portion of the EL.
- No significant targets were identified, however previously tested, basemetal anomalous Lower Pelite Suite meta-sediments was

identified as a moderate conductor with a low gravity and magnetic response.

5.0 Exploration Completed During Tenure Year Five 2/9/98 – 1/9/99

5.1 Office-based Assessment

No field programmes were completed within EL 2016 during the tenure year. Work activities were focused within contiguous EL 2554 Kalabity, where significant integrated drilling/ground geophysical programmes have been completed.

Future exploration programmes within EL 2016 Deep Well Dam will be dependent upon the final assessment of results from work programmes testing the Pelite Suite within the Curnamona Project Area during the 1999 field season.
Preliminary assessement of the data to date suggests:

- The locational accuracy and effectiveness of historic RAB drilling data in areas of shallow Recent cover within EL 2016 needs to be re-assessed.
- Open file drilling geochemical data and observations requires closer integration with interpretated regional geophysical data.
- The structural and regional stratigraphic context of basemetal occurrences within EL 2016 needs to be determined.

Semi-regional IP surveying (1000-2000m line spacing) with coincident gravity and limited ground magnetic data should conducted over interpreted Pelite Suite and Bimba Formation to:

- Aid stratigraphic interpretation in areas of Tertiary cover
- Estimate cover thickness
- Identify direct targets (conductors) for sulphide accumulation, particularly within the Lower and Upper Pelite Suite sequences.

6. Rehabilitation

No activities requiring rehabilitation were carried out during the tenure period.

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Flint, D.J. & Parker, A.J.	1994	Willyama Inliers. *In* Drexel, J.F., Preiss, W.V. and Parker, A.J. (Eds): *The geology of South Australia, volume 1: The Precambrian. Geological Survey of South Australia Bulletin* 54,. p82-93.
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Placer Exploration,	1994	EL 1751 Strathearn, South Australia. Partial Relinquishment Report for period 20th August 1986 to 17th May 1994. Placer report SA5/94
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Stewart, WA,	1995	Annual Report for Deep Well Dam EL 2016, South Australia for the period ended 1 September, 1995. CRAE report. 21178.

Willis, I.L. et al. 1983 The Early Proterozoic Willyama Supergroup stratigraphic subdivision and interpretation of high to low-grade metamorphic rocks in the Broken Hill Block, New South Wales. J. Geol. Soc. Aust., 30, 195-224.

8. Location

Curnamona	SH5415	1:250,000
Kalabity	6934	1:100,000
Curnamona	6834	1:100,000

9. Keywords

Basemetals, Bimba Formation, Copper, Curnamona Province, Deep Well Dam, Lead, Olary Domain, Pelite Suite, Proterozoic, Willyama Inlier, Zinc.

10. DPO Register

Nil	

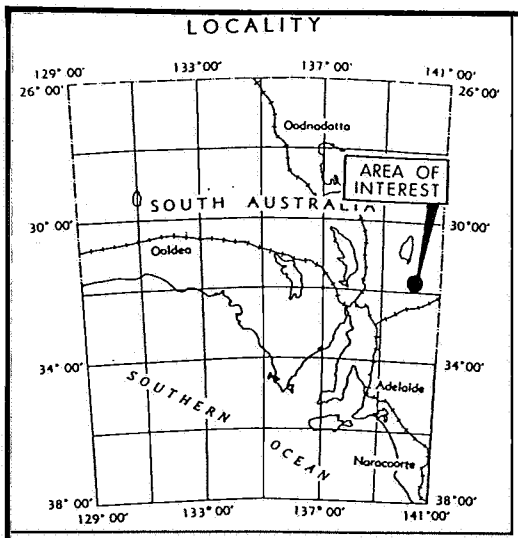
11. Expenditure Statement

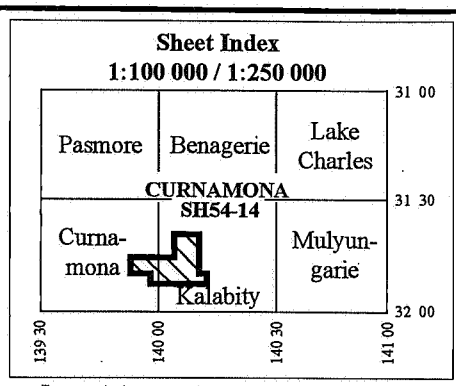
Expenditure for the twelve month period ending 31st August 1999 for EL 2016 Deep Well Dam is $65,791.41 as detailed in Table 1.

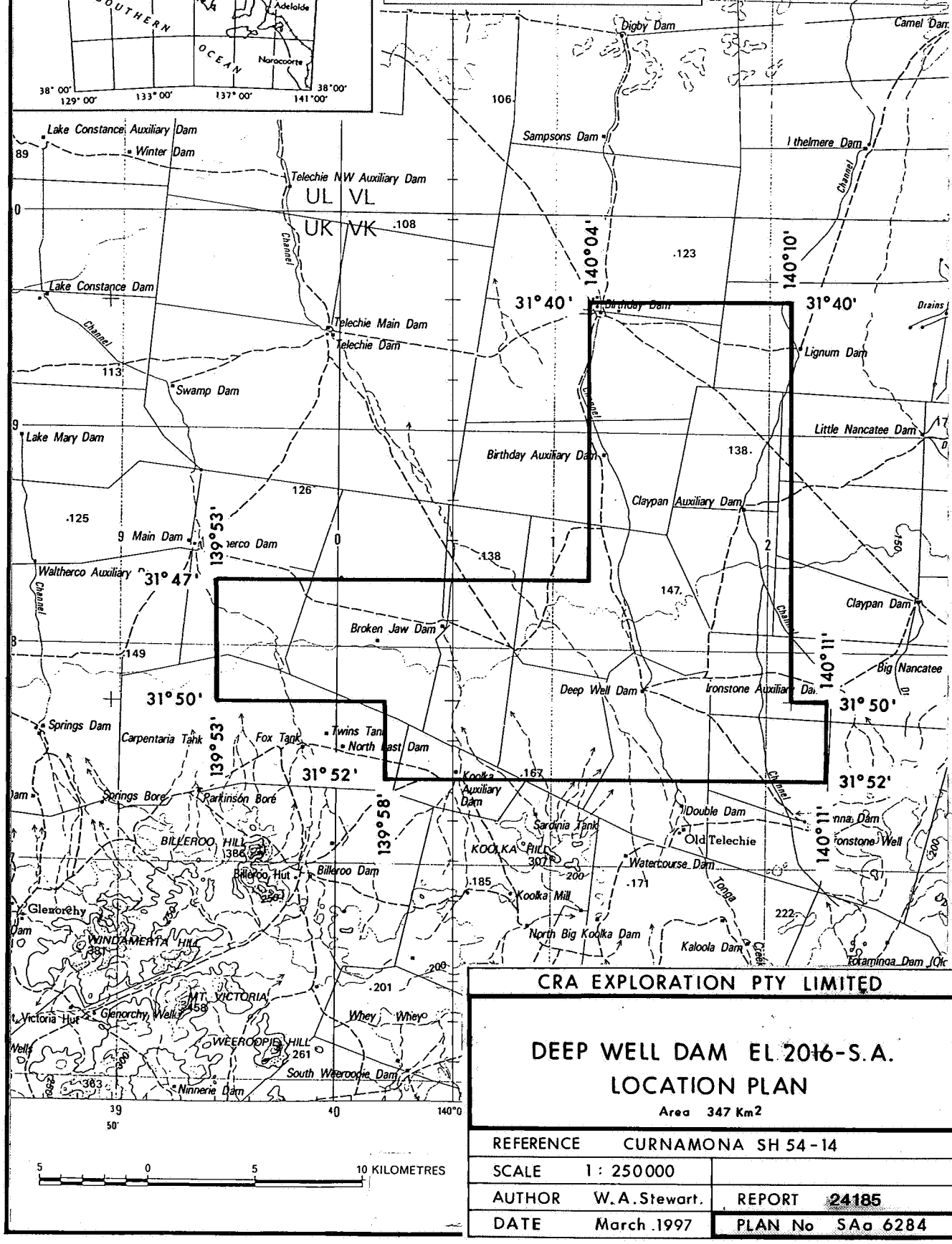
Table 1

Drilling	0
Contract Exploration- Ext	8,344.03
Laboratory Analysis	180.00
Rent and Property	6,799.11
Payroll & Benefits	25,383.74
Field & Transport	6,009.74
Travel & Accommodation	888.57
Computer Services	2,345.82
Professional	1,042.29
Office Miscellaneous	2,183.65
Indirect Costs	1,465.00
Recoveries and Income	11,148.46
Rounding	**1.00**
Total	**$65,791.41**

Total expenditure since grant is $418,906.41.







CRA EXPLORATION PTY LIMITED

DEEP WELL DAM EL 2016-S.A.
LOCATION PLAN

Area 347 Km2

REFERENCE	CURNAMONA SH 54-14		
SCALE	1 : 250000		
AUTHOR	W.A.Stewart.	REPORT	24185
DATE	March .1997	PLAN No	SAa 6284

395000 mE
400000 mE
405000 mE
410000 mE
415000 mE
420000 mE
6495000 mN
6490000 mN
6485000 mN
6480000 mN
6475000 mN
6470000 mN
-31°40'
-31°45'
-31°50'
139°55'
140°
140°05'
140°10'
98700N
92800N
88500N
Line 21000E
1000
Recon traverse
13000
Billeroo Hill
Koolka Hill
Old Telechie

Legend

- 1998 TEM sounding
- 1998 TEM traverse
- 1998 Ground magnetic traverse
- 1998 Gravity traverse

GN
MN
TN
Grid Convergence 0.4°
Grid-Magnetic Angle 7.8°

Topography: *AUSLIG Topo 250k Geodata Curnamona and Olary sheets*

Projection: *UTM AMG Zone 54*
Horizontal Datum: *AGD66*

South Australia
Adelaide

INDEX to adjoining map sheets

Pasmore 6835	Benagerie 6935	Lake Charles 7035
	Curnamona SH54-14	
Curnamona 6834	Kalabity 6934	Mulyungarie 7034

100,000 & **250,000** map sheets

2 0 2 4 6
kilometres

RIO TINTO EXPLORATION PTY. LIMITED

Curnamona Project

Deep Well Dam EL 2016

Summary of Exploration Activities

Author: P.Hawke	Ref: Curnamona, SH54-14
Drawn: D.Moore	File Name: SAb1257.wor
Date: 8-1-99	Report No: 24185
Scale: 1:100 000	Plan No: SAb1257

Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Annual Report
for the Period 3rd November 1999 to 2nd November 2000
EL2665, Deep Well Dam,
Curnamona SH54-14, South Australia

Exploration Report No. 24620

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	November 2000
Author:	MC Arundell
Submitted by:	IM Ledlie
Distribution:	Dept. Primary Industries & Resources (2) RTE Perth Information Centre

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WA44431p	Summary Map	1:100 000

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Appendix 2	Ground Magnetic and Gravity Profiles/Models over the Main Sites Drilled
Appendix 3	Drill Hole Collar Information, Geological Logs, Geochemistry and Geophysical Data
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1 Summary

This report documents work completed by BHP and Rio Tinto on EL 2665 Deep Well Dam during the year of tenure 3rd November, 1999 to 2nd November, 2000.

Exploration work carried out by BHPM consisted of the following:

- assessment of regional aeromagnetic, gravity data;
- detailed gravity surveys;
- ground magnetics surveys;
- RC drilling for a total of 1594 m;
- petrological assessments of drill chips.

Nine RC percussion holes were drilled to test a number of coincident gravity-magnetic or stand-alone gravity and magnetic targets for Broken Hill Type Ag-Pb-Zn and/or Iron-Oxide Copper Gold (IOCG) type mineralisation. Targets were defined by aeromagnetics and regional (250m x 500m) gravity surveys with high-priority targets detailed by ground magnetic traverses and closely spaced gravity stations.

Overall drilling results were disappointing. Intense K-Fe metasomatised metasediments intersected in the holes are non- to weakly-mineralised. The limited areal extent of the associated magnetic-gravity anomalies, inferred low sulfide fluids and lack of mineralisation significantly downgrades the area. Consequently BHPM decided to withdraw from the joint venture on 7 August 2000

Total exploration expenditure for EL 2665 for the period 3rd November, 1999 to 2nd November, 2000 was $206,230.

2 Introduction

Exploration Licence 2665 Deep Well Dam, comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet (Plan WA44430p). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL 2665 was granted to Rio Tinto Exploration Pty. Limited (Rio Tinto) on 3rd November, 1999 upon renewal of EL 2016 at the end of its five year term. EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September, 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited.

EL 2665 Deep Well Dam forms part of Rio Tinto's Curnamona Zinc Project located within the Northern Olary Domain of the Curnamona Province.

Rio Tinto is exploring EL 2665 for base metal mineralisation of sufficient size to meet it's corporate objectives. Potential mineralisation styles include stratabound/ stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite and stratabound massive sulphide Cu/Zn/Co/Mn in the Bimba Formation.

BHP Minerals Pty Ltd (BHPM) assumed management of the tenement from 30th December, 1999. This report details all exploration work conducted by BHPM and Rio Tinto for the year of tenure 3rd November, 1999 to 2nd November, 2000.

3 Conclusions and Recommendations

The drill testing of six magnetic/gravity targets on the Deep Well Dam JV project yielded insignificant results. RC drilling intersected mainly K-Fe metasomatised metasediments, which are only weakly mineralised in places. The lack of mineralisation/alteration in the holes significantly downgrades the area. Consequently BHPM decided to withdraw from the JV.

It is recommended that Rio Tinto thoroughly review the work completed by BHPM to determine whether the targets drilled have been adequately tested and whether other targets are present that are worthy of follow up.

4 Regional Geology

The following synopsis of the regional geology and mineralisation is modified from Parkinson (1997b).

EL 2665 Deep Well Dam is situated in the southern portion of the Paleoproterozoic to Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain of the Curnamona Craton.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain - the two Domains forming the Willyama Inlier (e.g. Laing, 1996; Clarke et al., 1986; Willis et al., 1983).

The Willyama Supergroup is interpreted to have been deposited within an ~1780-1680 Ma intracratonic rift and rift-platform basin. Geochronology of rock type emplacement, intrusive events, metamorphism and deformation are discussed in Clarke et al. (1986) and a further summary of the Olary Domain geology is provided by Plimer (1996).

4.1 Stratigraphy

Metamorphic lithologies in the Olary Block have been divided into five major rock

suites (Clarke et al., 1986). These include:

Composite Gneiss Suite - basal unit consisting mostly of coarse-grained and migmatitic gneiss grading to massive leucocratic granitoids with large areas of anatexis.

Quartzofeldspathic Suite ("QFS") - This forms a significant component of the exposed Olary Block rock types and is considered equivalent to the Thackaringa Group in the Broken Hill Block. The lower portions of the suite include massive-layered albite-quartz rocks ("Lower Albite") interpreted as felsic volcanics or volcaniclastic sediments and co-magmatic A-type granitic intrusions. The middle portion of the suite includes mostly psammopelitic and pelitic schist ("Middle Schist") and composite gneiss. Uppermost is finely laminated, often magnetic, albite-quartz rocks ("Upper Albite"). This unit is interpreted to occur as NNE-trending tight anticlines in the eastern portion of EL 2665.

Calc-silicate Suite - Possibly equivalent to the Ettlewood Calc-silicate Member of the Broken Hill Domain and laterally and vertically gradational from the upper portions of the Quartzofeldspathic Suite. Rock types in this suite are characterised by quartzofeldspathic rocks with abundant calc-silicate minerals grading to well laminated calc-silicate rocks and strongly hydrothermal altered albite-actinolite-diopside altered breccias with locally important sulphide mineralisation.

Bimba Suite - This suite forms an extensive marker horizon in the Olary District consisting of psammopelitic and pelitic schist grading to calc-silicate rocks, carbonate-rich rocks, quartz-albite rocks and local iron formations. Rock types in the Bimba Suite are typically laminated and strongly sulphidic with sulphide veins and occasional massive sulphide which are commonly represented by gossan at surface. The Bimba Suite typically overlies a prominent magnetic marker horizon at the top of the Calc-silicate Suite/Upper Albite and is interpreted to occur as a series of tight NNE-trending synforms throughout EL 2665.

Pelite Suite - The upper-most suite in the Olary Block, the Pelite Suite is characterised by pelitic-psammopelitic and psammitic sediments forming tight NNE-trending synforms throughout EL 2665.

The sharp contact between the Pelite Suite and underlying Bimba Suite may represent a regional unconformity (e.g. Plimer, 1996; Ashley et al., 1995). The basal parts of the Pelite Suite are commonly strongly graphitic, and contain distinctive chiastolites ± pyrrhotite. In addition, in the basal layers, manganese enriched zones, garnetiferous beds (grading to garnet sandstone) and tourmaline rich rocks are recorded.

A recent tectono-stratigraphic synthesis by Laing (1996) has introduced several new stratigraphic subdivisions and an alternative stratigraphic nomenclature. This interpretation subdivides the Olary Block in to several structural domains, each with contrasting stratigraphic assemblages which broadly correlate. This suggests many of the domain-boundary faults were also important features of the early basin architecture, potentially important for controlling mineralisation and hydrothermal alteration.

4.2 Granites

At least three granite suites are recognised in the Olary Block.

The oldest granitoid suite occurs within the lower part of the Quartzofelspathic Suite. These have A-type affinity and are probably co-magmatic with interpreted felsic volcanics of the “Lower Albite”. Dating zircons has returned ages of 1703±6 Ma, 1701±8 Ma and 1717±14 Ma (Cook et al., 1994).

A volumetrically minor I-type granite suite returned zircon ages of 1629±12 Ma and 1641±11 Ma (Cook et al., 1994). This suite is potentially genetically associated with Cu-Au mineralisation in the contact aureoles to these granites.

A third suite is generally referred to as regional S-type granitoids. These are typically leucocratic massive to foliated S-type or highly fractionated I-type two-mica granitoids. These are common in the Olary Block and have returned zircon dates of ~1590 Ma. Pegmatites associated with these granites are locally associated with minor economic concentrations of uranium, beryl, feldspars, muscovite and columbite-tantalite (Plimer, 1996) and possibly associated with Cu-Au mineralisation in the northern and northeast portions of the Olary Block.

S-type sodic granites, locally associated with U-Th mineralisation, occur in the northwest portion of the Olary Block with ages of ~1580 Ma (Cook et al., 1994). More mafic granitoids also occur in the north west of the Olary Block (Plimer, 1996).

Delamerian granitoids possibly intrude the Olary Block but are unconfirmed.

4.3 Structure & Metamorphism

The area is characterised by intense multiple deformation and metamorphism which has significantly disturbed primary stratigraphy. Maximum metamorphic grade in the tenement area is upper greenschist to amphibolite facies.

Two major periods of deformation have been recognised in the Olary Block associated with the Paleoproterozoic Olarian Orogeny and Cambro-Ordovician Delamerian Orogeny (e.g. Clarke et al., 1986; Flint & Parker, 1993).

OD1, OD2 and OD3 are associated with the Olarian Orogeny at ~1590 ± 20 Ma (Plimer, 1996). These probably represent a progressive deformation style characterised by nappe development, refolding and prograde metamorphism during OD1 & OD2 and further refolding and extensive retrograde shearing and metamorphism during OD3. However, a possible younger age of 1500 ± 20 Ma for OD3 is referred to in Plimer (1996). Peak metamorphism in the Broken Hill Block has been dated at 1670-1600 Ma and is coeval with the I-type granite suite (Flint & Parker, 1993). However, most of the foliated granite gneiss, migmatite, pegmatite and regional granitoids in the Olary Block are probably closely related to OD1 and OD2 (op cit.).

Two phases of deformation and fold development are associated with the Delamerian Orogeny (DD1 and DD2) with dates ranging from 450-550 Ma. Significant metal migration probably occurred during development of the rift-basin, burial and diagenesis and subsequently during the Olarian Orogeny. However, locally significant remobilisation of ore metals and development of structurally controlled base and precious metal mineralisation also occurred during Delamerian deformation.

4.4 Mineralisation

Mineralisation in the Olary Block is discussed in Cook & Ashley (1992) and Ashley et al. (1994). Numerous small copper and copper-gold, minor zinc-lead-silver and uranium workings/prospects occur throughout the Olary Block.

Extensive epigenetic/fracture controlled chalcopyrite with minor gold mineralisation has been identified in brecciated magnetite-albite rocks in the upper part of the Quartzofeldspathic Suite at Waukaloo and in the Portia area.

The upper parts of the Calc-silicate Suite are associated with regionally anomalous low-grade zinc mineralisation over stratigraphic intervals up to 100 m thick (Flint & Parker, 1993). This suite typically exhibits regional-scale alteration including widespread albitisation, iron/calc-silicate alteration ± magnetite.

The Bimba Suite has been the focus of previous exploration activity. This unit is characterised by regional/strike extensive elevated base geochemistry and gossans. The Bimba Suite hosts Cu-Co mineralisation at Mt Howden and Cu-Zn-Ba (Pb-Ag) mineralisation at the Old Boolcamata-Blue Dam area. Copper and minor zinc mineralisation at the Telechie and Telechie South prospects are also interpreted to occur at the Bimba stratigraphic position.

Exploration has identified elevated base metal geochemistry in the Pelite Suite at a number of localities. At Hunter's Dam prospect, drilling has encountered stratabound zinc-lead mineralisation (106.9m @ 0.57% Zn, 0.12% Pb) within psammopelitic and pelitic sediments of the Pelite Suite and Bimba Suite.

Anomalous basemetal values occur within Pelite Suite at Birthday Dam Prospect and the Bimba Suite at Lignum South Prospect with EL 2665 Deep Well Dam.

A variety of unusual quartz-magnetite-garnet-apatite banded iron formations and Mn-rich garnet-quartz rocks of probable hydrothermal origin have also been identified in the lower parts of the Pelite Suite (Lottermoser et al., 1994).

Barium and potassium anomalous horizons are also noted associated with variably magnetic horizons within the Quartzofeldspathic Suite and the Bimba Suite.

Due to subdued/poor exposure, the Pelite Suite has received little exploration attention. This suite is regarded as highly prospective for stratabound/sediment-hosted base metal mineralisation, akin to the Mt. Isa and Century Zn (Ag-Pb) deposits in the Mt. Isa Inlier.

Other mineralisation styles recognised within the Olary Block include:

- Copper-gold mineralisation associated with iron formations similar to deposits in the Mt. Isa Inlier (e.g. Starra) or in structurally-focused iron-rich alteration systems in the contact aureole around certain granites. Large disseminated/stratabound copper and/or gold deposits are also possible.

- Supergene (enriched) copper-gold mineralisation in areas of deep weathering over large areas of low-grade sulphide copper-gold mineralised basement (Portia-style).

- U, Th and REE mineralisation in veins, breccias and stockworks associated with granite and pegmatite (Plimer, 1996).

- Uranium mineralisation associated with a redox interface within Eocene Eyre Formation fluviatile sands at Honeymoon, East Kalkaroo and Yarramba prospects.

5 Previous Exploration

5.1 Exploration Prior to EL 2665

Previous exploration undertaken within the area EL 2665 is reviewed in Hawke (1999).

In summary, previous exploration in the area of EL 2665 was undertaken by CSR/Placer as part of EL 1352 Strathearn (later EL 1751). Exploration programs were primarily focussed on stratiform Cu-Au and Zn-Pb mineralisation within the “Bimba Formation” and “Upper Albite” stratigraphic sequences.

Target areas were selected from aeromagnetics with limited follow-up using ground electrical geophysics and RC and diamond drilling. Best results were 4m @ 0.21% Zn in BD16 at Birthday Dam prospect (Placer, 1990 and 1994).

5.2 Exploration during Current Tenure

1st year of tenure (2/9/94 - 1/9/95) - CRAE Report No. 21178.

- 100m line-spaced airborne magnetic and radiometric survey
- Regional helicopter-supported, high-iron lag sampling (91 samples @ 1 per 4 km^2). An area of Au-Pb-Zn anomalism was identified in the north of the licence area and required follow up.
- CSAMT (2.5 line km). No significant anomalies were identified.
- 7.2 line km of In-Loop TEM at Deep Well Dam Prospect and Claypan South Prospect.
- 0.6 line km of 100m dipole-dipole IP. No significant anomalies were detected.
- Three RAB holes and ground magnetic traverses over a remanent-magnetised anomaly. Up to 700ppm Cu identified in Pelites adjacent to a (?)mafic intrusion which was interpreted as the source of the magnetic anomaly.

2nd year of tenure (2/9/95 - 1/9/96) - CRAE Report No. 23009

- Geocoded Landsat TM data purchased over EL 2016.
- TEM traverses (four lines for 6.2 line km) at Claypan North, Broken Jaw and Lignum West prospects. None of the traverses recorded any late time anomalies.

3rd year of tenure (2/9/96 - 1/9/97) – Rio Tinto Report No. 23702

- A Pelite Suite study was undertaken to compare the Zn prospective stratigraphic succession with other major zinc provinces (particularly the Mt Isa Inlier). Initial results suggest the lower Pelite Suite to be a good potential to host stratiform Zn mineralisation.

- Geochemical data from open file reports were captured.

4th year of tenure (2/9/97 - 1/9/98) – Rio Tinto Report No. 24124

- Geological interpretation of airborne magnetics and regional gravity data over the eastern portion of EL 2016 highlighted the presence of Bimba and Pelite Suite stratigraphy preserved in a series of NNE-trending isoclinal synforms beneath 40-100 metres of Recent cover.

- One line of detailed gravity and TEM was undertaken in the northeastern portion of the EL.

- No significant targets were identified. However, previously tested, basemetal anomalous Lower Pelite Suite meta-sediments were identified as a moderate conductor with a low gravity and magnetic response.

5th year of tenure (2/9/98 - 1/9/99) – Rio Tinto Report No. 24185

- No field work was undertaken during the reporting period.

- Work activities were limited to the on-going office-based assessment of Curnamona Project data pertinent to EL 2016.

6 Work Completed for the period ending 2nd November 2000

Exploration work carried out by BHPM on the Deep Well Dam JV project during the reporting period consisted of the following:

- an assessment of previous work, regional aeromagnetics and gravity data;

- detailed gravity surveys;

- ground magnetics surveys;

- RC drilling (9 holes) for a total of 1594m;

- petrological assessments of drill chips.

A summary map showing the location of surveys, grids and drill holes is given on Plan WA44431p.

6.1 Assessment of Regional Geophysical Data

Regional gravity and aeromagnetic data were assessed by BHPM to select target areas for follow-up work. Several magnetic/gravity anomalies were recognised in the regional geophysical data that had not been tested. These anomalies are located in areas of potential Broken Hill Group equivalent stratigraphy. Detailed geophysical surveys were carried out on the highest-priority anomalies followed by drilling.

6.2 Gravity Survey

A gravity survey was completed over much of the Deep Well Dam tenement by Fugro during February to March 2000. The survey was performed on a 250m x 500m grid and a total of 2225 stations were observed.

Two Lacoste and Romberg Model G gravity meters were used for acquisition with station positions and elevations determined using dual frequency Ashtech Z-12, Ashtech Z-Surveyor and Trimble 4000SSi GPS receivers operating in post processed (OTF) mode. Fugro Airborne Surveys supplied 2 gravity/GPS observers, 1 processor and 1 trainee processor and all required gravity/GPS equipment.

Gravity data along with a logistics report written by Fugro is included in Appendix 1. The survey outline is shown on Plan WA44431p. Gravity models for the main anomalies drilled are included in Appendix 2.

6.3 Ground Magnetic Surveys

Three high-priority magnetic targets (DWD-01, 02 west, & 04) were surveyed using ground magnetics during March-April 2000. Grid locations are shown on Plan WA44431p. Ground magnetic surveys were carried out to define the true position of the magnetic anomaly peak on the ground and also to obtain information on the geometry of the magnetic body and depth of overburden. Ground magnetic data were collected using Geometrics G856 memory magnetometers (one or two roving

magnetometers and one base magnetometer) and data were diurnally corrected.

Ground magnetic data were collected every ten metres along each grid line. Magnetic models are included in Appendix 2.

6.4 Geophysical Targets

Details of the highest priority magnetic/gravity targets selected for drill testing are discussed below. All magnetic and gravity models are contained in Appendix 2. Plan Wa44431p shows the main sites drilled. Note that depth to target and total depths quoted in the text below are down hole depths for angled holes (not vertical depths).

DWG01/ DWM01

DWM01 was the first target identified from the aeromagnetics as one of the more magnetically intense anomalies (2500 nT) within the Western Curnamona. The anomaly lies just south of a major fault which separates magnetic domains of different structural character. Three lines of gravity were read over the magnetic anomaly and this revealed a 1.1 mgal coincident gravity anomaly (DWG01).

Drill hole DWR00001 was designed to intersect both the magnetic and gravity anomaly. Proposed drill hole and target details are presented below.

East	North	Azimuth	Inclination	Depth to Target	Target Body Mag. Sus.	Hole
403200	6481230	AMG north	60°	140m	30 000 SI x 10-5	DWR-00001

DWG02/ DWM02

DWM02 lies on the southern limb of a folded magnetic unit which strikes and plunges to the north-east. DWG02 West is a 2.5 mgal gravity anomaly which is coincident with the most magnetic part (3000 nT) of the southern fold limb. DWG02 East is a 1.6 mgal gravity anomaly just to the north east of the fold with no coincident magnetic signature. Two holes were designed to test these targets.

DWM02/ DWG02 West

East	North	Azimuth	Inclination	Depth to Target	Target Body Mag. Sus.	Hole
412440	6484900	AMG North	60°	110m	22 000 SI x 10-5	DWR-00004

DWG02 East

East	North	Azimuth	Inclination	Depth to Target	Target Body Density	Hole
413500	6486000	-	90°	41m	2.83 g/cc	DWR-00003

DWG04/ DWM04

DWM04/DWG04 is a small, discrete coincident magnetic/gravity target with magnetic amplitude of 3600nT and gravity amplitude of 1.6 mgals. A single angled drill hole was designed to test both the gravity and magnetic anomaly.

East	North	Azimuth	Inclination	Depth to Target	Target Body Mag. Sus.	Hole
417750	6488640	AMG East	60°	60m	22 000 SI x 10-5	DWR-00002

DWG06

DWG06 is a 1 mgal gravity anomaly which lies within a tight fold interpreted from the aeromagnetic data. DWG06 lies within non-magnetic stratigraphy interpreted to be psammite/ psammopelites of the pelite suite. DWG06 may be caused by the density contrast between the magnetic lower albite suite (less dense) and the non-magnetic pelite suite (more dense) within the fold closure. Density values in modeling support this theory. Two holes were designed to test this target.

East	North	Azimuth	Inclination	Depth to Target	Target Body Density	Hole
416200	6482000	0	90°	60m	2.83 g/cc	DWR-00005
416350	6482200	0	90°	60m	2.83 g/cc	DWR-00006

DWG05

DWG05 is a 2 mgal gravity anomaly situated on the edge of a circular magnetic unit. The gravity anomaly is 'L' shaped and two drill holes were designed to test both ends of the anomaly. A third hole was designed off the anomaly to enable rock density measurements to be made away from the anomaly.

Northern, Central and Southern targets

East	North	Azimuth	Inclination	Depth to Target	Target Body Density	Hole
418030	6478000	0	90°	100m	3.15 g/cc	DWR-00009
418280	6477500	0	90°	100m	3.15 g/cc	DWR-00008
418530	6477000	0	90°	100m	3.15 g/cc	DWR-00007

6.5 Drilling

Nine RC percussion holes for a total of 1594m were drilled to test a number of coincident gravity-magnetic or stand-alone gravity and magnetic targets as detailed in Section 6.4. The targets were initially defined by aeromagnetics and regional (250m x 500m) gravity surveys with high-priority targets detailed by ground magnetic traverses and closely spaced gravity stations. Drill hole details are included in Table 1 below. Drill hole logs, collar information, geochemical results and geophysical data are included in Appendix 3. Quality assurance measures were carried out on all drill hole geochemical results and all duplicates and standards were returned within acceptable ranges. Strip logs are included in Appendix 4.

Frank Walsh Drilling was contracted for the drilling job using a custom-made

percussion drill rig. RC percussion drilling was used from surface. Most of the drill supervision and logging work was carried out on site by contract geologist Brett Rava of Euro Exploration. Composite samples were taken every 6m with 2m samples taken around the basement unconformity and near the top of the hole. A report written by Brett Rava is included in Appendix 5.

TABLE 1

Drill Hole Details

Hole	Site	East	North	Dip	Azimuth	Depth (m)	Basement (m)	Date Start	Date Finish
DWR00001	DWM01	403200	6481230	-60	0	195	50	17-05-00	18-05-00
DWR00002	DWM04/DWG04	417750	6488640	-60	90	223	100	19-05-00	20-05-00
DWR00003	DWG002_East	413500	6486000	-90	0	140	68	20-05-00	21-05-00
DWR00004	DWM002_West	412440	6484900	-60	0	174	22	21-05-00	22-05-00
DWR00005	DWG06	416200	6482000	-90	0	180	14	22-05-00	22-05-00
DWR00006	DWG06	416350	6482200	-90	0	180	16	23-05-00	23-05-00
DWR00007	DWG05	418530	6477000	-90	0	196	12	24-05-00	24-05-00
DWR00008	DWG05	418280	6477500	-90	0	150	2	25-05-00	25-05-00
DWR00009	DWG05	418030	6478000	-90	0	150	11	25-05-00	26-05-00

6.6 Summary of Drilling Results

Palaeoproterozoic basement is overlain by a relatively thin veneer of unconsolidated Quaternary and Tertiary sediments and in drill holes DWR00002 and DWR00003 by Neoproterozoic (Adelaidean) low grade metamorphosed sedimentary rocks of the Adelaide Geosyncline. Basement intersections included sequences of regionally metamorphosed (lower amphibolite grade) and variably altered Palaeoproterozoic metasediments and minor volcanics. These were intruded by predominantly intermediate granitoids of dioritic to granodioritic compositions and lesser basic compositions.

With the exception of drillholes DWR00001 and 2, drilling failed to intersect altered or mineralised sequences. Drillholes DWR00003 and 4 intersected regionally albitised 'Quartzofeldspathic Suite' metasediments and variably retrograde (sericite-

chlorite+epidote-hematite) altered rocks defined as intermediate to basic intrusions. Drillholes DWR00005, 6, 7, 8 and 9 intersected non to weakly altered variably graphitic (DWR00005 & 6) fine to medium grained pelites, psammopelites and psammites of the 'Pelite Suite'.

Drillholes DWR00001 and 2 intersected pervasive and locally intense K-Fe (±Na) metasomatised quartzofeldspathic sequences and possible iron-rich lithologies interpreted to be part of the upper Quartzofeldspathic Suite. Intensely altered metasediments in DWR00002 are weakly Cu-Au-Mo anomalous. Metasomatism is interpreted as stratabound/stratiform and overprints, to varying degrees, earlier regional albite±magnetite alteration. Minor massive hematite±carbonate veining noted in both drillholes - predominantly in DWR00001 - may indicate (additional?) epigenetic alteration associated with late stage brittle deformation. In general, potassic alteration in both drillholes occurs with only trace to minor Fe and rare Cu sulfides suggesting metasomatic fluids were of low sulfur content. A somewhat ambiguous highly variable Fe-oxide mineralogy may reflect initial high temperature Fe-K alteration (magnetite-Kfeldspar-biotite±calcsilicates) and a latter low-moderate temperature Fe metasomatic event (hematite±chlorite).

Overall, drilling results were disappointing. Intense K-Fe metasomatised metasediments were non- to weakly-mineralised and although some follow-up maybe warranted to check for proximal mineralised breccia and or dilational zones, the limited areal extent of the associated magnetic-gravity anomalies, possible low sulphide fluids and lack of mineralisation significantly downgrades the area.

6.7 Petrology

Eight drill chip samples were selected by Brett Rava for petrological assessment. Full petrological details are provided in a report by Mason Geoscience in Appendix 6. The samples assessed are listed in Table 2.

Primary rock types include:

- fine-grained felsic rocks of uncertain origin (possibly volcaniclastic);

- fine-grained sediments of pelitic, semi-pelitic, and calc-silicate compositions;
- dolerite of basic intrusive igneous origin.

TABLE 2

Petrology Samples

Sample	Brief Description
DWR00001, 110–112m	Magnetite–biotite altered felsic meta-sediment
DWR00001, 132–134m	Magnetite–biotite altered felsic meta-sediment
DWR00002, 150–152m	Biotite–magnetite altered felsic meta-sediment
DWR00002, 170–172m	K-feldspar–magnetite–chlorite altered meta-dolerite
As above	Weakly weathered apatite rock (meta-?phosphatic sediment)
DWR00002, 184–186m	Weakly retrogressed biotite–garnet–?cordierite meta-pelite
DWR00003, 96–98m	Sericite-retrogressed, actinolite meta-dolerite
As above	Scapolite-metasomatised meta-dolerite
DWR00005, 112–114m	Staurolite–andalusite–cordierite schist (porphyroblastic meta-pelite)
DWR00008, 124–126m	Epidote veined schistose meta-semipelite
As above	Epidote veined meta-calc-silicate rock (meta-sediment)

All rocks display the effects of metamorphism in the upper greenschist to lower amphibolite facies. Some samples display selective retrogressive alteration generally of low intensity. A comprehensive report is included in Appendix 6.

7 Heritage Clearances

All drill sites were inspected and heritage clearances were given by Michael Anderson, a representative of the Adnyamathanha People, prior to drilling. A report by Michael Anderson is included in Appendix 7.

8 Environmental Protection and Rehabilitation

All drillsites were rehabilitated during or at the end of the drill program with all rubbish removed, drillholes backfilled and excess sample removed from site and disposed of. No heritage sites were disturbed.

9 Expenditure Statement

Table 3

Expenditure for EL 2665 "Deep Well Dam"
for the period 3rd November, 1999 to 2nd November, 2000

	$
Drilling	62,124
Contractors	81,659
Laboratory	5,926
Tenement Costs	-
Rent and Property	1,427
Payroll & Benefits	8,332
Field and Transport	13,576
Travel and Accommodation	45
Computer Services	763
Professional Services	77
Office & Miscellaneous	148
Other	-
Regional Indirect	32,153
Total	**$206,230**

The statutory expenditure commitment for the period 3rd November, 1999 to 2nd November, 2000 for EL 2665 is $130,000. Actual expenditure for this period has significantly exceeded department requirements.

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LOCATION

Curnamona	SH5415	1:250,000
Mulyungarie	7034	1:100,000

KEYWORDS

Adnyamathanha, RC drilling, Bimba Suite, Copper, Curnamona Province, EL 2016, EL 2665, Deep Well Dam, Environment, Eyre Formation, Geochemistry, Geophysical Interpretation, Ground Gravity Survey, Ground Magnetic Survey, Lead, Molybdenum, Olary Domain, Petrology, Pelite Suite, Proterozoic, Rehabilitation, Stratabound, Stratiform, Willyama Inlier, Zinc.

APPENDIX 1

GRAVITY DATA AND LOGISTICS REPORT

OPERATIONS REPORT FOR THE DEEP WELL DAM GRAVITY SURVEY FOR BHP EXPLORATION

FUGRO AIRBORNE SURVEYS PROJECT NUMBER 2-660

September, 2003
Fugro Airborne Surveys
7-9 George Place
Artarmon 2064
Sydney Australia

NOTE: THIS REPORT WAS AMENDED BY BHP, TO EXCLUDE SURVEYS OUTSIDE DEEP WELL DAM PROJECT

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1. INTRODUCTION

This report covers the gravity survey carried out by Fugro Airborne Surveys on BHP's Deep Well Dam Project. The Deep Well Dam lease is located approximately 100km west of Broken Hill, and is centred on Kalabity Sheep Station. The survey was performed on a 250m x 500m grid, and a total of 2225 stations were observed.

Acquisition was carried out during February to March 2000. Two Lacoste and Romberg Model G gravity meters were used for acquisition, with station positions and elevations determined using dual frequency Ashtech Z-12, Ashtech Z-Surveyor and Trimble 4000SSi GPS receivers operating in post processed (OTF) mode.

Fugro Airborne Surveys supplied 2 gravity/GPS observers, 1 processor and 1 trainee processor and all required gravity/GPS equipment. Accommodation was at Strathearn while the Deep Well Dam work program was being conducted.

A map of the stations acquired around Deep Well Dam (Fig.1) are shown on the following page.

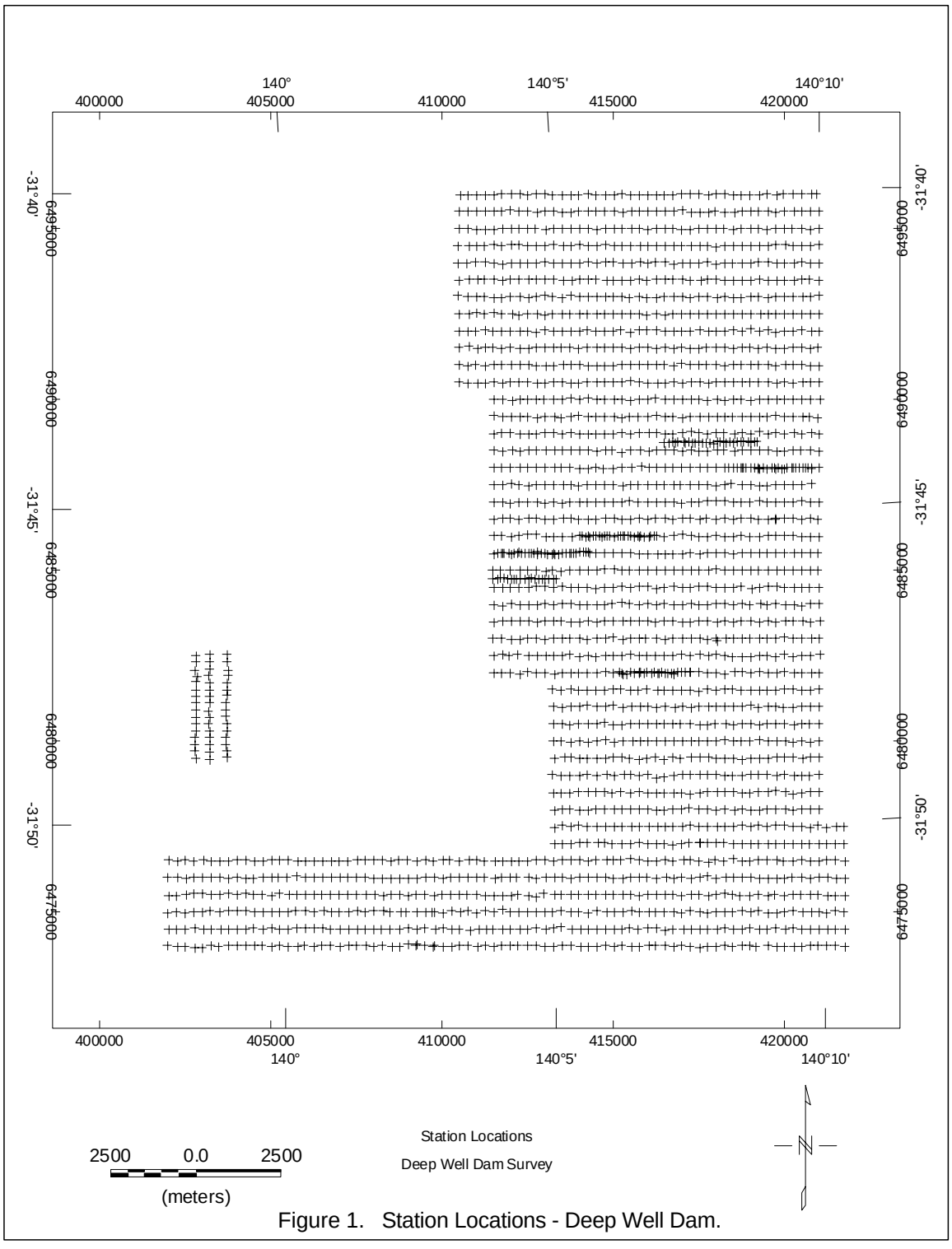


Figure 1. Station Locations - Deep Well Dam.

2. SURVEY PROCEDURE AND SPECIFICATIONS.

2.1 DATA ACQUISITION

The gravity data was observed using Lacoste and Romberg Model G gravity meters, capable of a resolution of 0.01 milligals. Reading time was recorded to the nearest minute to allow computation of tidal effects using Longman's formula. Elevation and position were determined using Ashtech Z-12, Ashtech Z-Surveyor and Trimble 4000SSi dual frequency GPS receivers with the data post-processed using On The Fly (OTF) ambiguity resolution.

Data acquisition for the areas is summarised below:

Grid Name	Deep Well Dam	
Line Spacing	500m	
Station Spacing	250m	
Line Direction	Mainly East/West	
Number of Stations	2225	
Number of Repeats	186	
Navigation	GPS	
Surveying	GPS	
Survey Method	OTF Kinematic	

2.2 NAVIGATION

The gravity observer navigated to each station using real-time GPS readings. Graphical navigation information was displayed on handheld non-differential GPS receivers.

2.3 GRAVITY BASE STATIONS

There are two reasons for the establishment of gravity base stations: datum control and drift control.

2.3.1 DATUM CONTROL

The gravity meter measures only the relative changes in gravity and not the absolute value of gravity. Giving each station an absolute value of gravity is not critical if the survey is small and independent from all other past and planned surveys. Surveys forming part of an on-going exploration program and/or covering large areas need to be tied into a base with a known absolute gravity value to allow merging of different survey data sets and for correct application of latitude corrections (latitude correction is a non-linear function of latitude, so relative corrections should only be applied to small survey areas).

To facilitate datum control, the Bureau of Mineral Resources (BMR) has established a national gravity base station network consisting of 200 equidistant bases throughout Australia. Of these, 60 bases were subsequently tied directly to at least one of the five absolute gravity measurement sites in Australia that were measured in 1979. These measurement sites are compatible with the International Gravity Standardisation Net 1971 (IGSN71) and referred to as Isogal84 values. It is important that the 1967 International Gravity Formula is used in reducing observations on the IGSN71 datum (the 1930 formula only applies to observations on the Potsdam datum).

For conducting the survey around Deep Well Dam, a gravity base station was tied to a previous base established at Strathearn by Fugro Airborne Surveys in 1999 on job 2-637 with an observed gravity value of 979423.56 mGals and which had been tied to the national network via both a Fugro Airborne Surveys base at Cockburn Pub and the Broken Hill AGSO gravity base. The new base was established due to lack of confidence in the permanency of the previously chosen position. Ten ties were made which resulted in an observed gravity value for the new base station of 979423.51 mGals. The new base was positioned on the concrete pad at the door to the kitchen of the shearers quarters at Strathearn Station (See Figure 3).

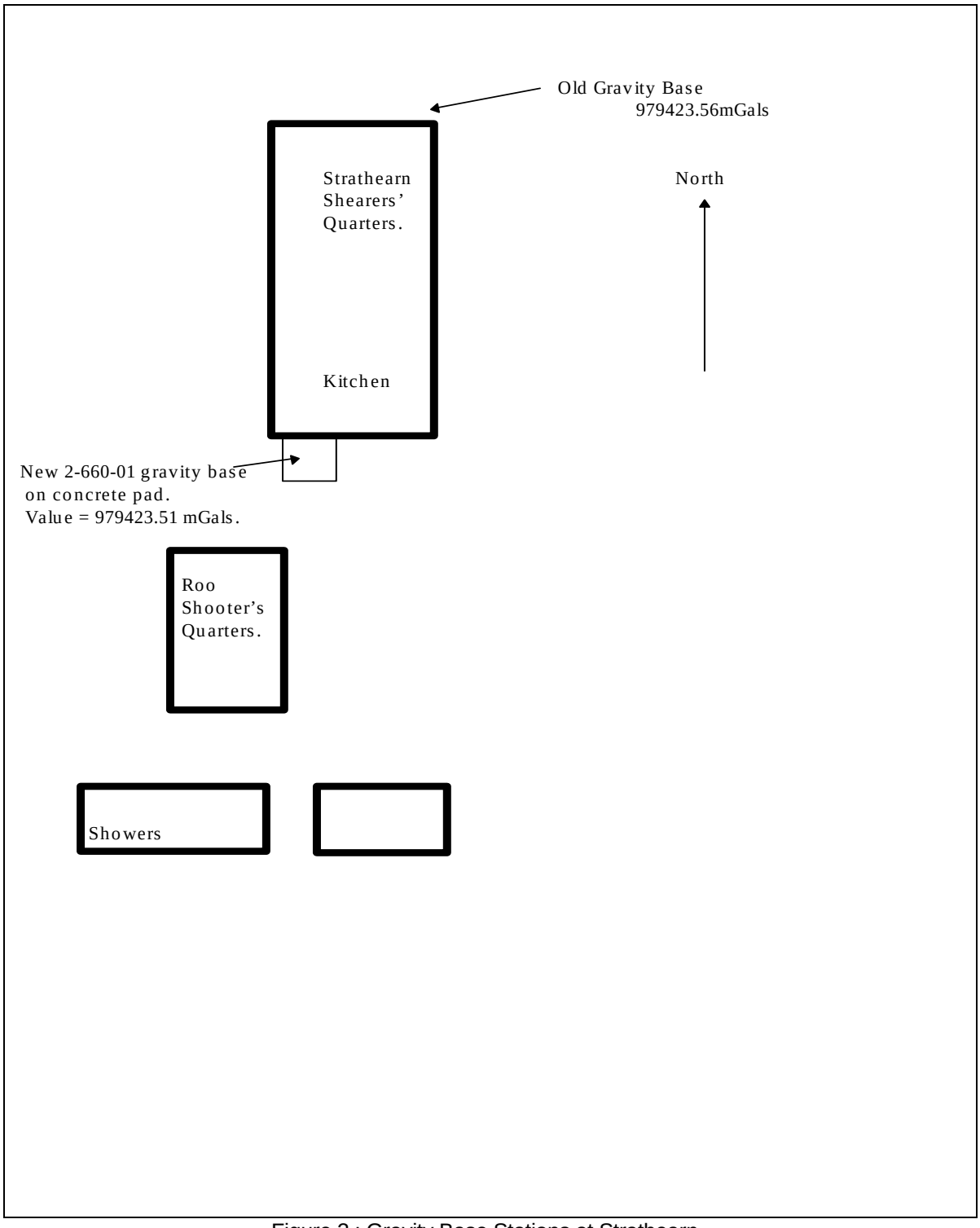


Figure 3 : Gravity Base Stations at Strathearn.

SUMMARY OF GRAVITY BASE TIES FOR THE DEEP WELL DAM SURVEY

```
STRATH_2
    Loop 0801    //190   lp Time  0.1hrs   Drift  -0.01   VALUE: 979423.51
        Parent Base Out STRATH_1      Value: 979423.56    Time:  11.15
        Parent Base In  STRATH_1      Value: 979423.56    Time:  11.29

    Loop 0802    //190   lp Time  0.1hrs   Drift   0.02   VALUE: 979423.51
        Parent Base Out STRATH_1      Value: 979423.56    Time:  11.29
        Parent Base In  STRATH_1      Value: 979423.56    Time:  11.36

    Loop 0803    //190   lp Time -0.1hrs   Drift   0.00   VALUE: 979423.51
        Parent Base Out STRATH_1      Value: 979423.56    Time:  13.19
        Parent Base In  STRATH_1      Value: 979423.56    Time:  11.27

    Loop 0804    //190   lp Time  0.1hrs   Drift   0.01   VALUE: 979423.50
        Parent Base Out STRATH_1      Value: 979423.56    Time:  13.27
        Parent Base In  STRATH_1      Value: 979423.56    Time:  13.33

    Loop 0805    //190   lp Time  0.1hrs   Drift   0.00   VALUE: 979423.47
        Parent Base Out STRATH_1      Value: 979423.56    Time:  13.33
        Parent Base In  STRATH_1      Value: 979423.56    Time:  13.40
```

2.3.2 DRIFT CONTROL

Drift has two components, a cyclic component due to the time varying gravitational effects of the sun and moon, and an approximately linear component due to instrumental drift. The tidal effects are removed using Longman's (1967)[1] algorithm which calculates the tidal correction to a resolution of 0.01 mgals. As the remaining drift is predominantly linear, gravity loop times can be extended to cover the full day.

This offers a number of advantages :

- Most loops are directly tied to primary bases reducing accumulated errors generated from tying secondary bases to other secondary bases.
- Removes the need to set up a series of temporary bases along the survey line.
- Instrument drift rate is often less than reading error, even for long duration loops.

The gravity meter, being a mechanical instrument consisting of beams, weights and springs, suffers from drift due to minute stretching of the spring mechanism. This drift can be removed provided each survey loop starts and ends at the same gravity station or at two different stations each with a known gravity value.

The drift behaviours of the gravity meters is demonstrated in Figure 5 below.

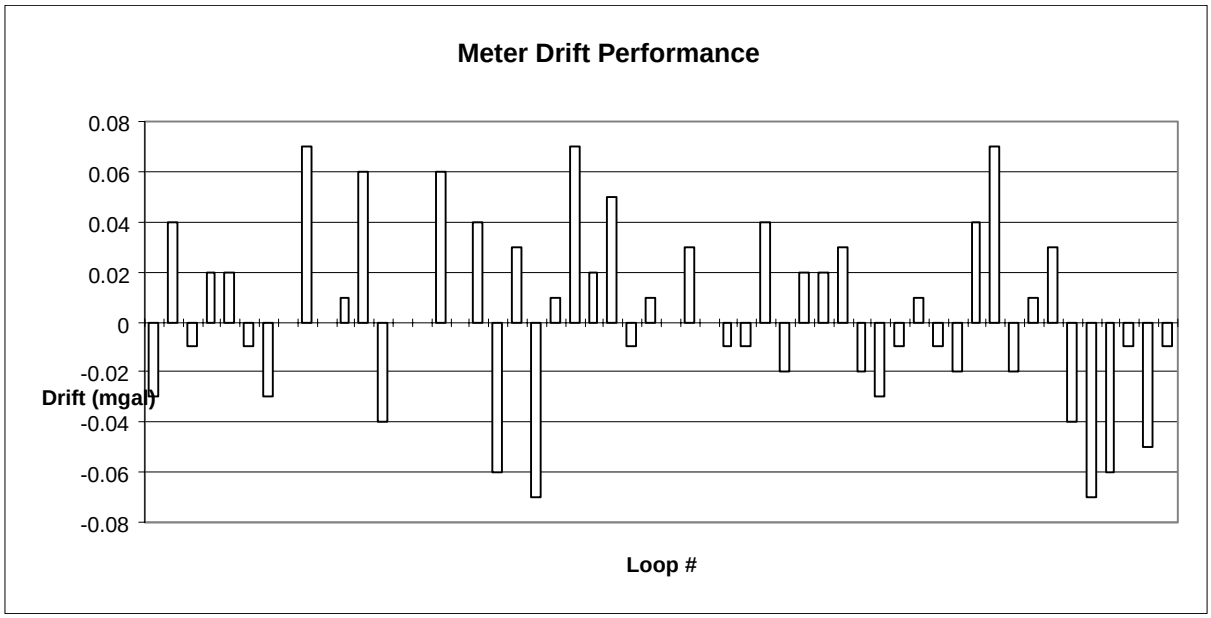


Figure 5. Gravity meter drift

[1] Journal of Geophysical Research, Volume 64, Number 12 , 1959

2.4 GRAVITY REPEATS

Gravity repeats are an integral part of quality control on the survey. The repeats provide a check on the accuracy of the previous reading, and can be used to isolate tares in the data. They also confirm the linearity of the mechanical drift. From the total of 2225 stations observed during the Deep Well Dam survey, 186 were repeated (8.3%) with a standard deviation of 0.022 milligals. The graph - Figure 6 shows the distribution of the repeats for both grids combined.

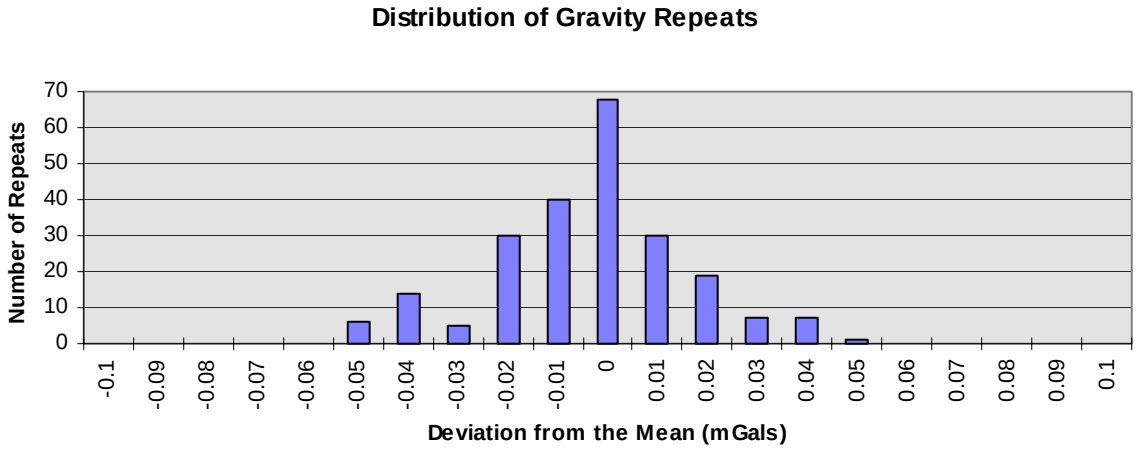


Figure 6. Distribution of gravity repeats.

2.5 GPS SURVEYING

2.5.1 GENERAL

Unlike most other geophysical methods, observed gravity requires accurate survey information before the technique can be effectively used in sub-surface mapping. The gravity response to elevation and position can far exceed sub-surface anomaly amplitudes. The effects are approximately 0.20 mgals per metre of elevation and 0.5 mgals per kilometre of north-south position. Therefore real-time GPS (±100 metres) is totally inadequate while real-time pseudorange differential GPS (±5 metres) would produce ±1 milligal errors. There are four GPS methods that can provide adequate quality survey data for gravity reductions. These are:

METHOD	DESCRIPTION	ELEV ERROR	GRAV ERROR
Rapid Static	Relies on the mobile receiver remaining stationary for 5 to 30 minutes depending on the distance between the base and mobile receivers. Very accurate but slow.	±2cm	<.01 mgals
OTF (On The Fly) (Kinematic)	Track satellites continuously. Observation times at each station is only a few seconds. Able to recover from interruption of the satellite signals with no loss of accuracy through advanced ambiguity resolution algorithms which eliminate the need for a static initialisation or antenna swap.	±5cm	±.01 mgals
RTK (Real Time Kinematic)	Track satellites continuously. Observation time at each station is only few seconds. With a real time link (RTK) occupation times of only a few seconds are required, with the result displayed on a handheld computer. Remote units can resolve ambiguities while moving, eliminating the problem of signal interruptions.	±5cm	±.01 mgals

All methods require a base GPS receiver to be located on a station with known coordinates. This base receiver allows post processing of the data to remove the effects of selective availability and ionospheric effects. The most appropriate method is generally a compromise between cost and accuracy, though the accuracy should be consistent with other sources of gravity noise (eg. geological noise, terrain correction errors, meter reading resolution). Fugro Airborne Surveys surveyed all gravity stations with GPS utilising the OTF method.

2.5.2 GPS Control Points

Two control points were established at Deep Well Dam. Diagrams and positions for these points are given in Appendix D.

2.5.3 OTF Kinematic GPS

The OTF kinematic method of processing data is done using Ashtech's proprietary PNAV^{TM} baseline processing algorithm. PNAV is best described as "a Kalman-filter based real-time baseline processing engine. It processes the time-tag matched double difference pseudo range and carrier phase measurements to generate optimal position and velocity solutions. Its ambiguity search algorithm fixes the carrier phase integer cycle ambiguities on-the-fly and enables PNAV to generate centimetre level epoch by epoch solutions." [2] One of its major advantages over the other kinematic techniques is the elimination of initialisation requirements. This means that if the receiver loses lock completely because of trees, the crew does not have to stop and reinitialise the receiver. The PNAV software automatically recomputes the integer ambiguities even while the roving receiver is moving.

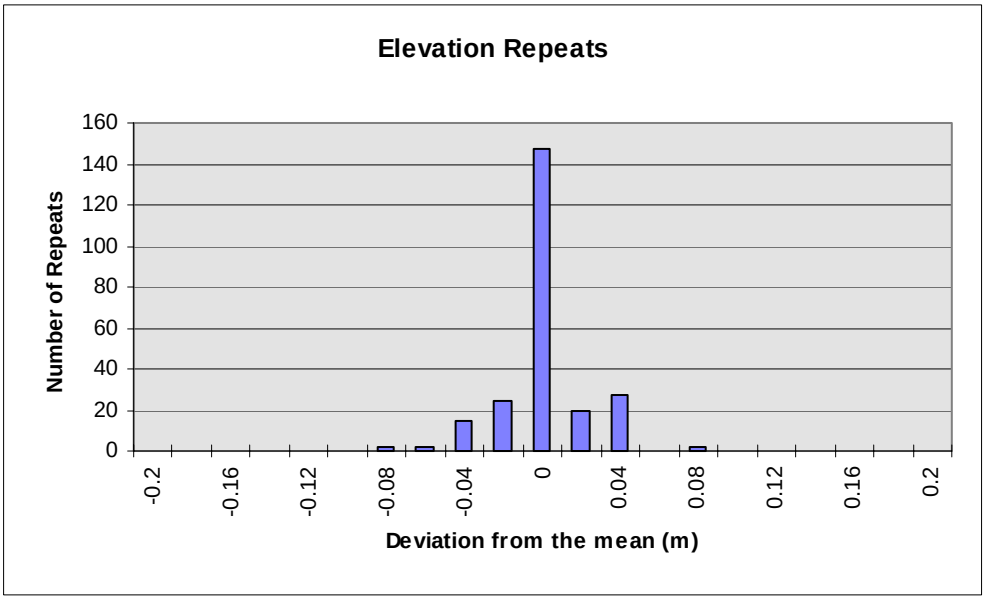


Figure 7. GPS elevation repeat distribution (both grids combined).

A total of 239 repeat station elevations were observed for quality control purposes. Figure 7 above demonstrates the error distribution, with a standard deviation of 0.021m.

‡ From GREFSRUD et al 1995

2.5.4 GPS WINDOW

Because the full NAVSTAR satellite constellation is now operational with its planned total of 24 satellites in orbit, periods of poor satellite coverage have been mostly eliminated.

3. DATA PROCESSING

3.1 OBSERVED GRAVITY

The following corrections are applied to the raw gravity data to obtain observed gravity (g_o):

Instrument correction: to correct for the scaling factor between machine units and milligals, as listed in the manufacturer's calibration tables (see Appendix A).

Tidal correction: To correct for the differential gravitational effects of the moon and sun. Longman's polynomial approximation of tidal effect is applied to the base-out and base-in readings before the loop drift rate is calculated and is also applied to each station within the loop. The Longman's formulae are published in the Journal of Geophysical Research, Vol 64, No 12, p2351-2356, 1959.

Mechanical drift: removed with the assumption that the drift between base-out and base-in is linear. This is a valid assumption when the non-linear components (tidal) have been removed before the drift rate is calculated and the meter has not suffered significant tares during the course of the loop.

The following equation combines these corrections to obtain observed gravity:

$$g_o = g_{stn} + C_{tide} - C_{drift} - g_{base\text{-}out} + g_{0(base)}$$

where:

g_o= observed gravity in milligals

g_{stn}= raw gravity reading at each station

C_{tide}= tidal effect (in milligals)

$g_{0(base)}$ absolute value of gravity at the base

$$C_{drift} = (g_{base\text{-}out} - g_{base\text{-}in})/(t_{base\text{-}out} - t_{base\text{-}in}) \times t_{stn}$$

$g_{base\text{-}out}$, $g_{base\text{-}in}$ are base readings at start and end of loops

$t_{base\text{-}out}$, $t_{base\text{-}in}$ are base times at start and end of loops

3.2 BOUGUER GRAVITY

Bouguer gravity is calculated using equation:

$$G_b = G_o - G_t + C_{fa} - C_b + C_t$$

where

G_o=	observed gravity described above
G_t=	theoretical gravity calculated from the station's latitude.
C_{fa}=	free air correction
$C_b=2\pi G\rho h$	bouguer correction, G = universal gravity constant, ρ = density
C_t=	terrain correction

Latitude Correction - To correct observed gravity for the effects of the differential centrifugal acceleration due to the reduction in angular velocity at the surface of the earth with latitude (this acceleration is at its maximum at the equator where the observed gravity will be at its minimum). This correction is solely a function of latitude (ϕ) obtained from survey co-ordinates.

For this survey the 1967 gravity formula is used to calculate the theoretical gravity g_t.

$$g_t = -978031.80 \times \left(1 + 0.0053024 \times \sin^2\phi - 0.0000059 \times \sin^2 2\phi\right)$$

Free Air Correction - To correct for the fact that gravity decreases (as the square of the distance) from the elevation datum. This correction is a function of station elevation above the datum and is approximately 0.3085958 mgals/metre.

Bouguer Correction - Corrects for the gravitational attraction of the rock between the station and elevation datum. This correction is dependent on elevation and the rock density and is approximately $2\pi G\rho h = 0.041896325\rho$ mgal/meter. For this survey, densities of 2.2, 2.5 and 2.67 grams per cm^3 were used for the Bouguer corrections.

Terrain Correction - Corrects for the effects of surrounding topographic features which deviate from the infinite slab that is implicit in the bouguer correction. Quite small hills close to the reading site can have significant effects on gravity. Major features can have effects in excess of 20 kilometres from the reading site.

3.3 GPS

3.3.1 On The Fly (OTF) GPS

Ashtech "PNAV" software was used in processing all GPS loops acquired on this survey. PNAV uses a recursive Kalman filter parameter estimation technique that resolves ambiguities while the roving receiver is in motion. PNAV initially uses the linear combination of the L1 and L2 frequencies (called widelane), which gives an 86cm carrier wave. The widelane carrier wave, being 86cm long is easier to solve ambiguities for than the L1 or L2 (<19cm) carrier waves individually. Once the widelane ambiguity is solved, L1 and L2 ambiguities are easily computed. The OTF method gives results comparable to normal kinematic methods, while eliminating the need to carry out static initialisation's or antenna swaps after breaks in the satellite data.

3.4 SPHEROID TRANSFORMATION

The Global Positioning System uses the World Geodetic System 1984 (WGS84) datum for both its broadcast and precise ephemerides. The WGS84 spheroid is a geocentric spheroid which attempts a best fit of the whole earth using the latest information. Australia uses the Australian Geodetic Datum 1984 (AGD84), which is based on the Australian National Spheroid (ANS), a non geocentric local spheroid which gives a best fit for Australia and disregards the rest of the world. The Australian Map grid (AMG) is the UTM projection associated with AGD84. Over the next 2 years, the Australian Geodetic Datum will be replaced by the Geocentric Datum of Australia (GDA94). GDA94 is identical to WGS84 for
all practical purposes. The UTM projection associated with GDA94 will be known as Map Grid of Australia (MGA). **N.B.** All results provided for this survey are in ADG84/AMG coordinates.

All GPS data are processed on the WGS84 datum, and must then be converted to AGD84, to reflect the shift between the datum origins. Fugro Airborne Surveys uses the Australian standard 7 parameter transformation values computed by Higgins (1987) as listed below:

Defining parameters for the ANS:

Semi-Major Axis (a) 6378160m	Flattening (f) 298.25
Transformation Parameters	***after Higgins (1987)***
Shifts	Rotations (seconds)
Tx 116.00	rx 0.23
Ty 50.47	ry 0.39
Tz -141.69	rz 0.344
Scale factor (s) 1.0000000983	

The data is also presented as AMG84 co-ordinates (Zone 54E) using Redfearn's (1948) formulae to convert geographic co-ordinates to easting and northing values.

3.5 SPHEROID-GEOID SEPARATION

The Australian Height Datum (AHD) is a national vertical datum based on mean sea level measured at 30 locations around the Australian coastline. The geoid is an equipotential surface which best approximates mean sea level over the whole earth. AHD, true local mean sea level and geoid surfaces invariably do not coincide and certainly differ from the WGS84 and AGD84 spheroid surfaces.

Fugro Airborne Surveys processes all heights to the WGS84 spheroid which differs by up to 50 meters from the AHD height. This height difference is referred to as spheroid separation or n-value. The calculation of the height difference between the WGS84 spheroid and the non-uniform Australian Height Datum depends on the GPS method, area and accuracy. The possible methods include:

1 Global Geo-potential Model (eg OSU91 or EGM96) which utilises a satellite orbit perturbation, terrestrial gravity and satellite altimetry to produce a high degree expansion model of the geoid. This method provides absolute accuracies of 2 metres and relative errors at the decimetre level. Given that relative errors of over 20ppm (20mm/km) can occur when exclusively using a geo-potential model this method should only be applied in areas where there no better geoid model.

2 In Australia, AUSLIG (Australian Surveying & Land Information Group - Dept. of Administrative Services) maintains a data base of n values over a regular 10 minute grid calculated from a combination of the Global model OSU91 and BMR gravity database (current to 1992). This method can provide relative accuracy of 2-3 parts per million. Fugro Airborne Surveys uses a bi-cubic interpolation routine provided by AUSLIG to calculate n-values for each control point from this regular grid of calculated values. The interpolation errors are less than 10 cm when compared with rigorously calculated n values. The AUSGEOID93 n-value files were used for this contract.

3 For surveys requiring high accuracy in areas with good gravity coverage, the n-values are rigorously calculated using a combination of Global model OSU91 and BMR gravity data for each station. This method will therefore have no interpolation errors.

For this survey method 2 has been applied to the WGS84 co-ordinates to give AHD heights.

At the time this survey was performed, AUSLIG had just released the updated 1998 AUSGEOID data files, which have not yet been integrated into our processing stream.

3.6 OFFICE REPROCESSING

As a standard procedure, all data is routinely checked throughout the survey, and undergoes a final checking process via a complete reprocessing sequence subsequent to the completion of the survey.

The following data integrity checks are made:

Data entry of raw gravity checked against field books
WGS84 to AGD84 to AMG conversions checked
Spheroid to geoid separation checked for control and each gravity station
GPS and Gravity Base station ties checked and reprocessed
GPS data processing checked

4. ERROR ANALYSIS

The total probable error in the final Bouguer Gravity data, e_{bg}, is calculated using: (refer Appendix D)

$$e_{bg}^2 = e_g^2 + e_{gt}^2 + (c * e_h)^2$$

where

e_g is the error in the observed gravity

e_{gt} is the error in the theoretical gravity value used

e_h is the error in the elevation value

$c=(0.3086-2\pi\rho G)$

where $G=6.67 \times 10^{-8}$ (dyne cm^2)/g^2 Universal Gravity Constant

$\rho=2.67$ g/cc

c=0.1967 mgal/metre

From preceding sections

e_g = 0.020 x 0.707 = 0.014 mgals

e_h = 0.03 x 0.707 = 0.021 metres

e_{gt} = 0.00081 sin(2 x latitude) mgals/metre x northing error
= 0.0001 mgal

It follows that the probable Bouguer error for the survey is

$e_{bg}^2 = 0.014^2 + 0.0001^2 + (0.021 \times 0.1967)^2$,

e_{bg} = 0.015 mgals

5. DATA PRODUCTS

5.1 FINAL DATA PRODUCTS

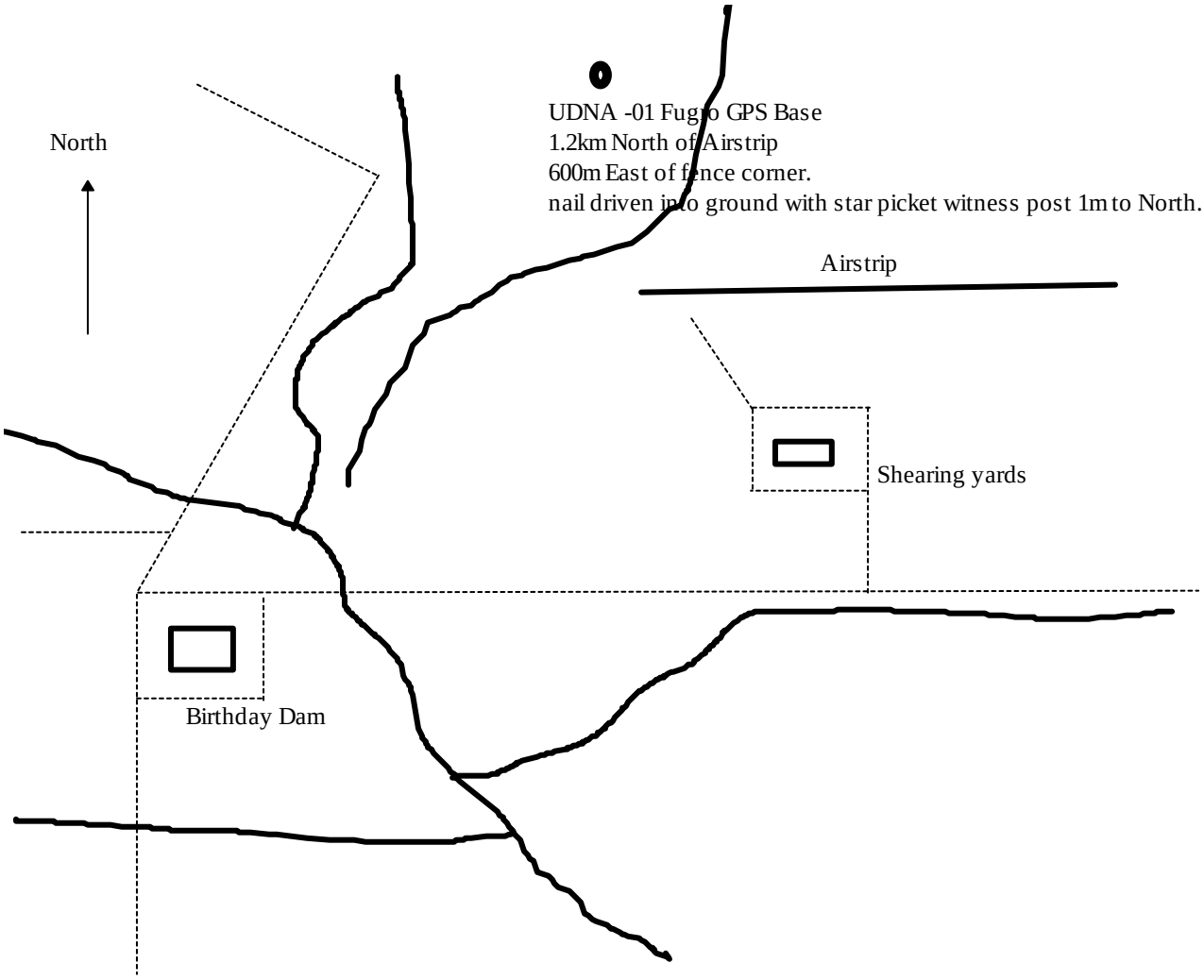
The following data presentation products were presented:

- Final data (Geosoft (*.XYZ) and Fugro Airborne Surveys formats)
- Logistics Report

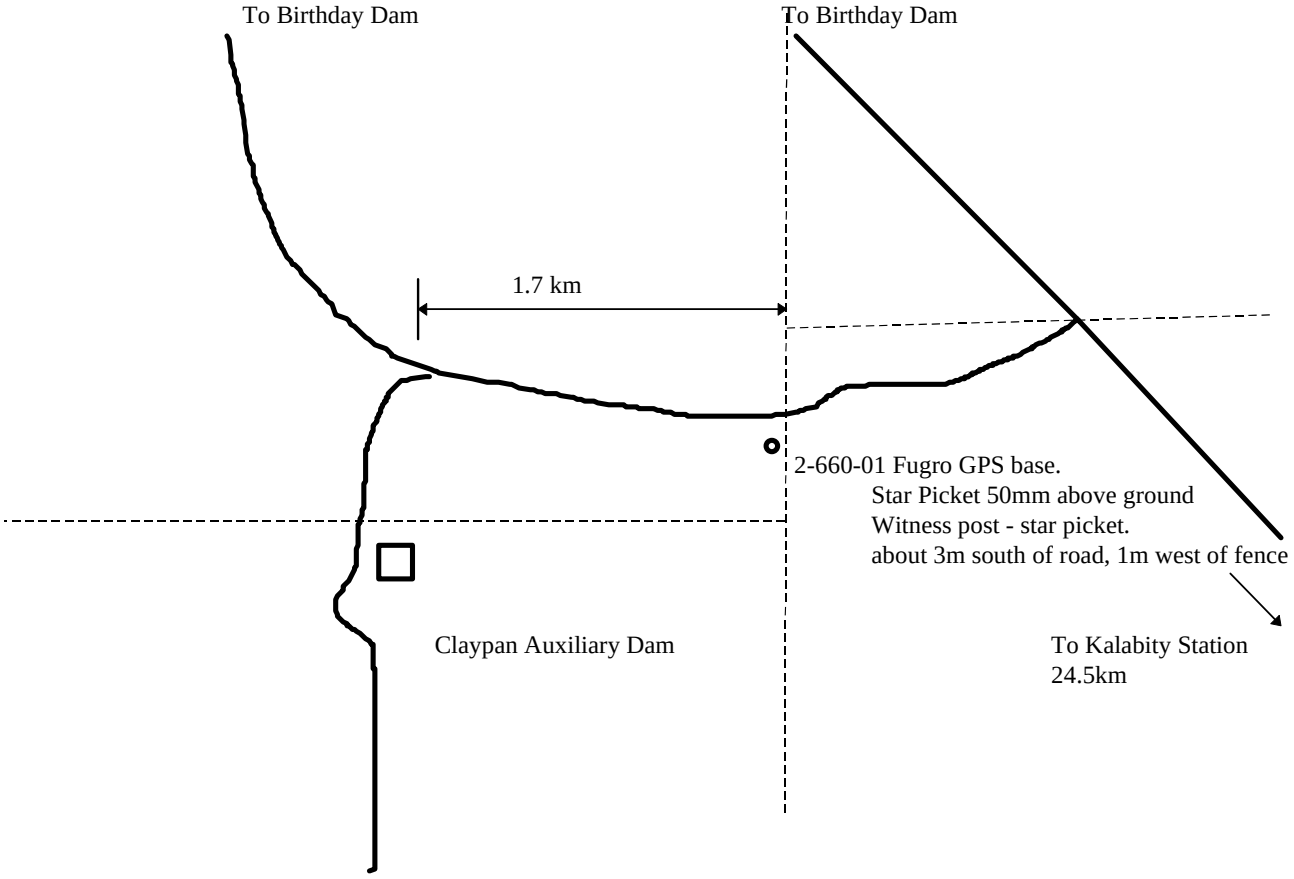
APPENDIX D

BENCHMARKS AND DATA IMAGES

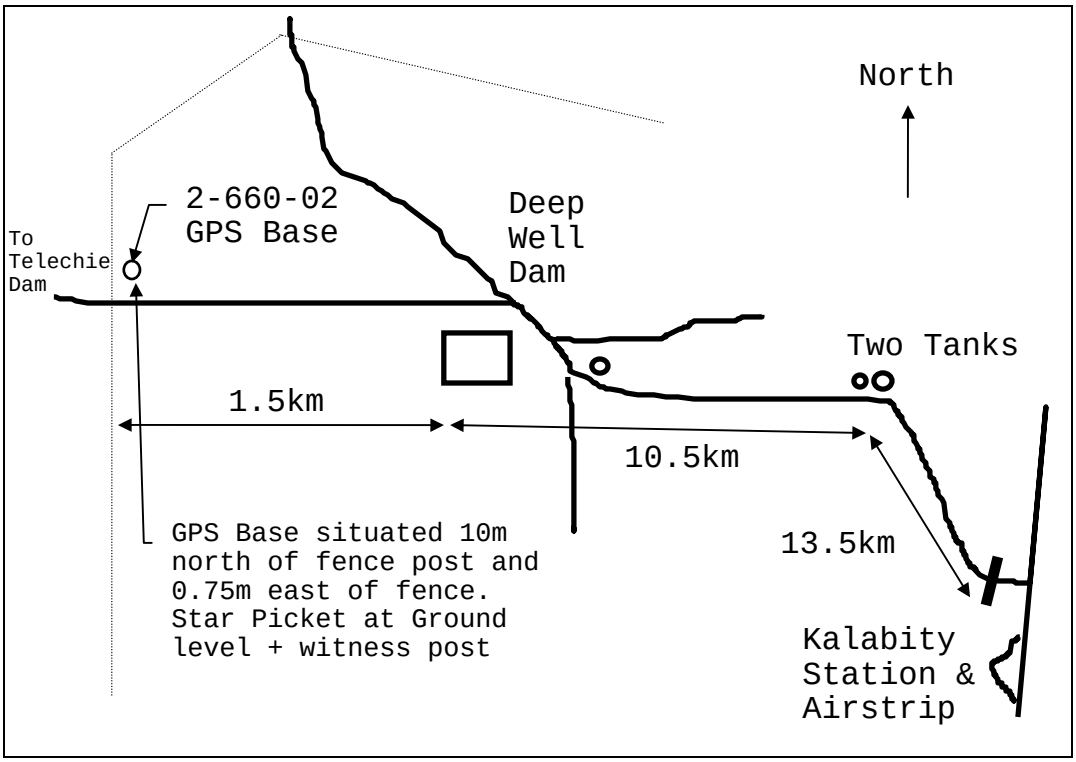
UDNA-01	AGD84	WGS84
Latitude (ϕ)	-31°39'27.2816S	-31°39'21.9364S
Longitude (λ)	140°04'57.1519E	140°05'01.8357E
East Zone 54 (AMG)	413,018.698	
North Zone 54 (AMG)	6,497,140.492	
Spheroidal Height		130.986
Geoid Separation (n)		(-10.195)
AHD Elevation	120.791	



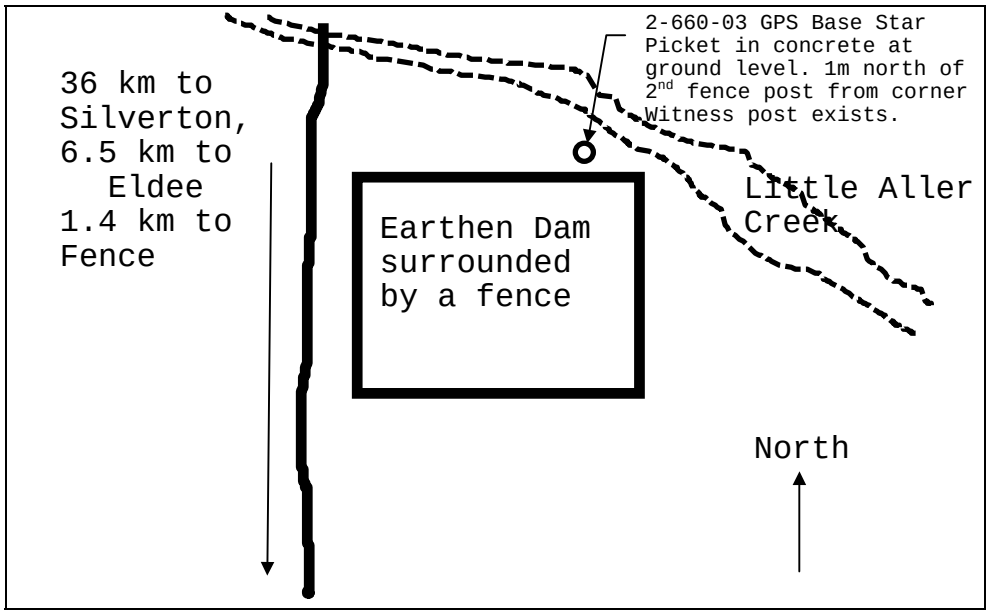
2-660-01	AGD84	WGS84
Latitude (ϕ)	-31°44'56.6395S	-31°44'51.2933S
Longitude (λ)	140°09'00.2605E	140°09'41.9458E
East Zone 54 (AMG)	419,500.301	
North Zone 54 (AMG)	6,487,051.470	
Spheroidal Height		151.070
Geoid Separation (n)	From Ausgeoid93	(-10.381)
AHD Elevation	140.689	



2-660-02	AGD84	WGS84
Latitude (ϕ)	-31°49'24.4646S	-31°49'19.1221S
Longitude (λ)	140°04'37.8798E	140°04'42.5718E
East Zone 54 (AMG)	412,666.95	
North Zone 54 (AMG)	6,478,748.84	
Spheroidal Height		162.827
Geoid Separation (n)	From Ausgeoid93	(-10.063)
AHD Elevation	152.768	



2-660-03	AGD84	WGS84
Latitude (ϕ)	-31°36'36.4162S	-31°36'31.02950S
Longitude (λ)	141°15'28.5436E	141°15'33.1744E
East Zone 54 (AMG)	524,465.41	
North Zone 54 (AMG)	6,502,737.76	
Spheroidal Height		171.328
Geoid Separation (n)	From Ausgeoid93	(-14.012)
AHD Elevation	157.160	



APPENDIX E

DATA LISTING

DEEP WELL DAM NORTH SOUTH DETAIL LINES

Line 280
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
280	7950	6479497	402806	-31.81591	139.97308	146.88	0.0000	979409.34	-13.83	-27.37	-28.60	-30.26
280	7970	6479716	402787	-31.81394	139.97290	146.16	0.0000	979408.95	-14.28	-27.76	-28.98	-30.63
280	7990	6479906	402780	-31.81222	139.97285	145.60	0.0000	979408.86	-14.41	-27.83	-29.05	-30.70
280	8010	6480093	402787	-31.81054	139.97294	145.19	0.0000	979408.98	-14.28	-27.66	-28.88	-30.52
280	8030	6480301	402814	-31.80866	139.97325	144.57	0.0000	979408.91	-14.39	-27.71	-28.92	-30.56
280	8050	6480517	402803	-31.80672	139.97315	144.04	0.0000	979408.93	-14.37	-27.65	-28.85	-30.48
280	8070	6480690	402814	-31.80516	139.97329	143.63	0.0000	979409.06	-14.24	-27.48	-28.68	-30.31
280	8090	6480899	402804	-31.80327	139.97320	143.06	0.0000	979409.03	-14.29	-27.48	-28.68	-30.29
280	8110	6481130	402806	-31.80119	139.97325	142.49	0.0000	979409.24	-14.10	-27.23	-28.42	-30.03
280	8130	6481318	402809	-31.79949	139.97329	141.83	0.0000	979409.42	-13.98	-27.05	-28.24	-29.84
280	8150	6481502	402819	-31.79783	139.97342	141.59	0.0000	979409.25	-14.09	-27.14	-28.33	-29.93
280	8170	6481727	402818	-31.79580	139.97343	140.93	0.0000	979409.08	-14.30	-27.29	-28.47	-30.07
280	8190	6481901	402837	-31.79423	139.97365	140.39	0.0000	979408.99	-14.42	-27.36	-28.54	-30.13
280	8210	6482070	402780	-31.79270	139.97307	139.87	0.0000	979408.88	-14.57	-27.47	-28.64	-30.22
280	8230	6482318	402816	-31.79047	139.97347	139.55	0.0000	979408.56	-14.81	-27.67	-28.84	-30.42
280	8250	6482502	402794	-31.78881	139.97325	139.26	0.0000	979408.50	-14.82	-27.66	-28.83	-30.40

Line 320
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
320	7950	6479475	403206	-31.81615	139.97730	146.74	0.0000	979409.91	-13.32	-26.85	-28.08	-29.74
320	7970	6479693	403194	-31.81418	139.97719	146.17	0.0000	979409.79	-13.45	-26.93	-28.15	-29.80
320	7990	6479879	403220	-31.81251	139.97750	145.40	0.0000	979409.86	-13.49	-26.89	-28.11	-29.75
320	8010	6480103	403203	-31.81049	139.97734	144.66	0.0000	979409.82	-13.59	-26.93	-28.14	-29.77
320	8030	6480303	403205	-31.80868	139.97737	144.21	0.0000	979409.57	-13.84	-27.13	-28.34	-29.97
320	8050	6480506	403184	-31.80685	139.97717	143.84	0.0000	979409.57	-13.81	-27.07	-28.27	-29.90
320	8070	6480702	403191	-31.80508	139.97727	143.28	0.0000	979409.70	-13.71	-26.91	-28.11	-29.73
320	8090	6480886	403187	-31.80342	139.97725	142.77	0.0000	979409.94	-13.49	-26.64	-27.84	-29.46
320	8110	6481116	403203	-31.80134	139.97743	141.96	0.0000	979410.18	-13.32	-26.41	-27.60	-29.20
320	8130	6481306	403195	-31.79963	139.97737	141.51	0.0000	979410.55	-12.96	-26.01	-27.19	-28.79
320	8150	6481493	403194	-31.79794	139.97738	141.13	0.0000	979410.15	-13.34	-26.35	-27.53	-29.13
320	8170	6481722	403210	-31.79588	139.97757	140.52	0.0000	979409.55	-13.96	-26.91	-28.09	-29.68
320	8190	6481906	403188	-31.79422	139.97736	139.97	0.0000	979409.44	-14.11	-27.01	-28.18	-29.77
320	8210	6482102	403204	-31.79245	139.97755	139.58	0.0000	979409.21	-14.31	-27.18	-28.34	-29.92
320	8230	6482312	403208	-31.79056	139.97761	139.36	0.0000	979409.19	-14.24	-27.09	-28.26	-29.83
320	8250	6482521	403204	-31.78867	139.97758	138.98	0.0000	979409.25	-14.16	-26.97	-28.13	-29.70

Line 370
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
370	7950	6479515	403708	-31.81583	139.98261	145.93	0.0000	979411.34	-12.12	-25.57	-26.79	-28.44
370	7970	6479707	403702	-31.81410	139.98257	145.45	0.0000	979411.22	-12.25	-25.65	-26.87	-28.52
370	7990	6479897	403696	-31.81238	139.98252	144.91	0.0000	979411.07	-12.42	-25.78	-26.99	-28.63
370	8010	6480099	403692	-31.81056	139.98250	144.22	0.0000	979410.94	-12.62	-25.91	-27.12	-28.75
370	8030	6480296	403709	-31.80878	139.98270	143.75	0.0000	979410.74	-12.81	-26.06	-27.27	-28.89
370	8050	6480504	403702	-31.80691	139.98264	143.36	0.0000	979410.45	-13.08	-26.29	-27.49	-29.11
370	8070	6480721	403687	-31.80495	139.98251	142.78	0.0000	979410.42	-13.13	-26.29	-27.48	-29.10
370	8090	6480910	403694	-31.80324	139.98260	142.26	0.0000	979410.42	-13.15	-26.26	-27.45	-29.06
370	8110	6481110	403696	-31.80144	139.98264	141.80	0.0000	979410.35	-13.22	-26.29	-27.48	-29.08
370	8130	6481344	403729	-31.79934	139.98301	141.39	0.0000	979410.38	-13.14	-26.17	-27.36	-28.96
370	8150	6481485	403730	-31.79806	139.98304	141.06	0.0000	979410.42	-13.10	-26.10	-27.28	-28.88
370	8170	6481695	403734	-31.79616	139.98310	140.62	0.0000	979410.24	-13.26	-26.23	-27.40	-28.99
370	8190	6481905	403737	-31.79427	139.98316	140.18	0.0000	979410.15	-13.34	-26.26	-27.43	-29.02
370	8210	6482082	403737	-31.79268	139.98317	139.89	0.0000	979409.98	-13.47	-26.36	-27.53	-29.12
370	8230	6482313	403734	-31.79059	139.98316	139.37	0.0000	979410.26	-13.17	-26.02	-27.19	-28.76
370	8250	6482523	403727	-31.78869	139.98311	138.89	0.0000	979410.14	-13.29	-26.09	-27.25	-28.82

DEEP WELL DAM EAST WEST LINES

Line 7400
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
7400	200	6474004	401983	-31.86540	139.96383	166.27	0.0000	979410.30	-10.89	-26.21	-27.61	-29.49
7400	225	6473992	402271	-31.86553	139.96688	166.42	0.0000	979410.19	-10.97	-26.31	-27.70	-29.58
7400	250	6473978	402490	-31.86567	139.96919	166.22	0.0000	979410.60	-10.63	-25.95	-27.34	-29.22
7400	275	6473945	402763	-31.86599	139.97207	166.04	0.0000	979410.97	-10.34	-25.65	-27.04	-28.92
7400	300	6473961	402995	-31.86587	139.97453	165.41	0.0000	979410.87	-10.62	-25.87	-27.25	-29.12
7400	325	6474011	403259	-31.86544	139.97732	164.42	0.0000	979411.39	-10.38	-25.53	-26.91	-28.77
7400	350	6473986	403479	-31.86568	139.97965	163.86	0.0000	979411.84	-10.12	-25.22	-26.60	-28.45
7400	375	6474025	403769	-31.86536	139.98271	163.21	0.0000	979412.26	-9.88	-24.92	-26.29	-28.13
7400	400	6474023	403993	-31.86539	139.98508	162.65	0.0000	979412.51	-9.80	-24.79	-26.15	-27.99
7400	425	6474006	404254	-31.86557	139.98783	162.56	0.0000	979413.06	-9.29	-24.28	-25.64	-27.48
7400	450	6474013	404511	-31.86553	139.99055	161.81	0.0000	979413.17	-9.41	-24.32	-25.68	-27.51
7400	475	6474012	404745	-31.86556	139.99303	161.42	0.0000	979413.38	-9.32	-24.20	-25.55	-27.37
7400	500	6473995	405008	-31.86573	139.99581	160.78	0.0000	979413.90	-9.02	-23.84	-25.19	-27.00
7400	525	6474027	405248	-31.86546	139.99834	159.73	0.0000	979414.37	-8.84	-23.56	-24.90	-26.71
7400	550	6473998	405497	-31.86575	140.00098	158.70	0.0000	979414.57	-8.99	-23.62	-24.95	-26.74
7400	575	6473997	405773	-31.86578	140.00389	158.29	0.0000	979415.10	-8.59	-23.18	-24.50	-26.29
7400	600	6474011	405980	-31.86567	140.00608	158.92	0.0000	979415.07	-8.41	-23.06	-24.39	-26.19
7400	625	6473987	406259	-31.86591	140.00902	159.54	0.0000	979415.15	-8.16	-22.86	-24.20	-26.01
7400	650	6474024	406483	-31.86559	140.01140	160.52	0.0000	979415.59	-7.40	-22.19	-23.54	-25.35
7400	675	6474017	406724	-31.86568	140.01394	162.06	0.0000	979416.14	-6.38	-21.31	-22.67	-24.50
7400	700	6474003	407003	-31.86582	140.01689	162.86	0.0000	979416.13	-6.15	-21.16	-22.53	-24.37
7400	725	6474021	407262	-31.86568	140.01963	163.28	0.0000	979415.27	-6.87	-21.92	-23.28	-25.13
7400	750	6474020	407502	-31.86571	140.02217	164.18	0.0000	979415.32	-6.54	-21.67	-23.05	-24.91
7400	775	6474011	407771	-31.86582	140.02501	165.47	0.0000	979415.31	-6.16	-21.41	-22.80	-24.67
7400	800	6473993	407978	-31.86599	140.02720	166.45	0.0000	979415.15	-6.04	-21.38	-22.77	-24.66
7400	825	6474016	408251	-31.86581	140.03009	167.80	0.0000	979415.63	-5.13	-20.59	-22.00	-23.90
7400	850	6473996	408522	-31.86601	140.03295	168.59	0.0000	979416.38	-4.14	-19.68	-21.10	-23.00
7400	875	6473989	408737	-31.86610	140.03522	168.68	0.0000	979415.66	-4.84	-20.39	-21.80	-23.71
7400	900	6474041	409001	-31.86564	140.03802	168.71	0.0000	979416.02	-4.44	-19.99	-21.41	-23.32
7400	925	6474043	409254	-31.86565	140.04069	169.11	0.0000	979416.60	-3.73	-19.32	-20.74	-22.65
7400	926	6474024	409237	-31.86582	140.04051	169.20	0.0000	979416.80	-3.52	-19.12	-20.53	-22.45
7400	950	6474031	409494	-31.86577	140.04323	169.90	0.0000	979416.37	-3.74	-19.40	-20.82	-22.74
7400	975	6473994	409737	-31.86613	140.04579	170.67	0.0000	979415.77	-4.12	-19.85	-21.28	-23.21
7400	976	6474021	409750	-31.86588	140.04593	170.57	0.0000	979415.69	-4.21	-19.94	-21.36	-23.29
7400	1000	6473975	410015	-31.86632	140.04872	171.29	0.0000	979415.44	-4.27	-20.06	-21.50	-23.44
7400	1025	6473987	410264	-31.86623	140.05136	171.25	0.0000	979416.31	-3.41	-19.20	-20.63	-22.57
7400	1050	6474011	410510	-31.86603	140.05396	170.47	0.0000	979415.95	-4.00	-19.71	-21.14	-23.07
7400	1075	6474015	410747	-31.86602	140.05647	169.76	0.0000	979416.06	-4.11	-19.76	-21.18	-23.10
7400	1100	6473993	411026	-31.86624	140.05941	169.22	0.0000	979416.29	-4.06	-19.66	-21.08	-22.99
7400	1125	6474004	411264	-31.86615	140.06193	168.54	0.0000	979416.12	-4.44	-19.97	-21.38	-23.29
7400	1150	6473992	411515	-31.86628	140.06459	168.03	0.0000	979416.97	-3.76	-19.24	-20.65	-22.55
7400	1175	6474025	411716	-31.86600	140.06671	167.67	0.0000	979417.57	-3.24	-18.69	-20.10	-22.00
7400	1200	6474016	411985	-31.86610	140.06956	166.92	0.0000	979417.85	-3.20	-18.59	-19.99	-21.88
7400	1225	6474027	412182	-31.86602	140.07163	164.94	0.0000	979417.71	-3.95	-19.15	-20.53	-22.40
7400	1250	6474015	412481	-31.86615	140.07479	162.86	0.0000	979418.06	-4.25	-19.26	-20.62	-22.47
7400	1275	6474006	412724	-31.86625	140.07737	162.07	0.0000	979417.96	-4.60	-19.54	-20.89	-22.73
7400	1300	6473972	413010	-31.86658	140.08039	162.16	0.0000	979418.22	-4.33	-19.28	-20.64	-22.47
7400	1325	6473977	413261	-31.86655	140.08304	162.57	0.0000	979417.93	-4.50	-19.48	-20.85	-22.69
7400	1350	6474018	413504	-31.86620	140.08561	162.34	0.0000	979418.09	-4.39	-19.35	-20.71	-22.55
7400	1375	6474018	413742	-31.86622	140.08812	162.12	0.0000	979418.54	-4.00	-18.94	-20.30	-22.14
7400	1400	6473999	414044	-31.86642	140.09132	162.28	0.0000	979418.59	-3.92	-18.87	-20.23	-22.07
7400	1425	6473994	414269	-31.86648	140.09369	162.06	0.0000	979418.43	-4.15	-19.09	-20.44	-22.28
7400	1450	6473996	414523	-31.86648	140.09638	162.54	0.0000	979418.47	-3.96	-18.94	-20.30	-22.14
7400	1475	6474028	414762	-31.86621	140.09891	162.28	0.0000	979418.66	-3.83	-18.78	-20.14	-21.98
7400	1500	6473999	415017	-31.86648	140.10161	161.98	0.0000	979418.87	-3.73	-18.66	-20.02	-21.85
7400	1525	6474009	415255	-31.86642	140.10412	161.98	0.0000	979418.93	-3.66	-18.59	-19.95	-21.78
7400	1550	6473997	415529	-31.86654	140.10701	162.32	0.0000	979418.95	-3.55	-18.51	-19.87	-21.71
7400	1575	6473972	415730	-31.86678	140.10913	162.48	0.0000	979418.95	-3.52	-18.50	-19.86	-21.69
7400	1600	6474024	416031	-31.86633	140.11232	162.65	0.0000	979418.84	-3.54	-18.53	-19.90	-21.74
7400	1625	6474027	416235	-31.86632	140.11448	162.89	0.0000	979418.94	-3.37	-18.38	-19.75	-21.59
7400	1650	6474023	416506	-31.86638	140.11735	162.99	0.0000	979419.49	-2.79	-17.82	-19.18	-21.03
7400	1675	6473990	416749	-31.86670	140.11991	163.23	0.0000	979419.32	-2.91	-17.96	-19.33	-21.17
7400	1700	6474032	416994	-31.86634	140.12250	163.23	0.0000	979419.48	-2.73	-17.77	-19.14	-20.98
7400	1725	6473987	417233	-31.86676	140.12502	163.31	0.0000	979419.49	-2.72	-17.78	-19.14	-20.99
7400	1750	6473954	417512	-31.86708	140.12797	162.58	0.0000	979419.01	-3.46	-18.44	-19.81	-21.65
7400	1775	6473992	417724	-31.86675	140.13021	162.59	0.0000	979419.11	-3.33	-18.31	-19.67	-21.51
7400	1800	6473989	417987	-31.86679	140.13300	162.65	0.0000	979418.61	-3.81	-18.80	-20.16	-22.00
7400	1825	6474020	418239	-31.86653	140.13567	163.18	0.0000	979418.69	-3.55	-18.59	-19.96	-21.81
7400	1850	6473996	418480	-31.86677	140.13821	163.75	0.0000	979418.96	-3.12	-18.21	-19.59	-21.44
7400	1875	6474016	418738	-31.86661	140.14094	164.50	0.0000	979418.41	-3.43	-18.59	-19.97	-21.83
7400	1900	6474021	418985	-31.86658	140.14355	165.33	0.0000	979418.90	-2.68	-17.92	-19.31	-21.18
7400	1925	6473996	419164	-31.86682	140.14543	165.26	0.0000	979418.76	-2.86	-18.09	-19.48	-21.35
7400	1950	6474010	419507	-31.86671	140.14906	165.95	0.0000	979418.32	-3.08	-18.37	-19.76	-21.64
7400	1975	6473988	419753	-31.86693	140.15166	166.47	0.0000	979418.18	-3.07	-18.42	-19.81	-21.69
7400	2000	6473994	419997	-31.86689	140.15425	166.89	0.0000	979418.22	-2.91	-18.29	-19.69	-21.58
7400	2025	6473982	420260	-31.86702	140.15703	167.30	0.0000	979418.54	-2.46	-17.88	-19.28	-21.18
7400	2050	6473989	420496	-31.86698	140.15951	167.66	0.0000	979418.16	-2.73	-18.18	-19.59	-21.48
7400	2075	6474027	420735	-31.86664	140.16204	168.24	0.0000	979417.88	-2.81	-18.32	-19.73	-21.63

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    7400    2100 6474008  420966 -31.86683 140.16449  168.98  0.0000 979417.88   -2.59  -18.17  -19.59  -21.50
    7400    2125 6474025  421219 -31.86670 140.16717  170.08  0.0000 979417.99   -2.13  -17.80  -19.23  -21.15
    7400    2150 6474032  421487 -31.86666 140.17000  171.44  0.0000 979418.29   -1.41  -17.21  -18.65  -20.59
    7400    2175 6473989  421773 -31.86706 140.17302  172.72  0.0000 979418.86   -0.47  -16.39  -17.84  -19.79
Line 7450
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg   metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    7450     200 6474492  402009 -31.86099 139.96416  164.47  0.0000 979410.33  -11.06  -26.22  -27.60  -29.46
    7450     225 6474486  402220 -31.86107 139.96639  164.31  0.0000 979410.36  -11.09  -26.23  -27.61  -29.47
    7450     250 6474491  402486 -31.86105 139.96920  164.32  0.0000 979410.49  -10.95  -26.09  -27.47  -29.33
    7450     275 6474538  402766 -31.86064 139.97216  163.80  0.0000 979410.89  -10.68  -25.78  -27.15  -29.00
    7450     300 6474496  403019 -31.86105 139.97483  163.60  0.0000 979411.71   -9.96  -25.04  -26.41  -28.26
    7450     325 6474483  403253 -31.86119 139.97730  162.75  0.0000 979412.00   -9.94  -24.94  -26.30  -28.14
    7450     350 6474499  403522 -31.86106 139.98015  161.69  0.0000 979411.81  -10.45  -25.35  -26.70  -28.53
    7450     375 6474481  403750 -31.86124 139.98256  161.33  0.0000 979412.29  -10.09  -24.96  -26.32  -28.14
    7450     400 6474501  404001 -31.86109 139.98521  161.05  0.0000 979412.89   -9.57  -24.41  -25.76  -27.58
    7450     425 6474494  404265 -31.86117 139.98800  160.74  0.0000 979414.13   -8.43  -23.25  -24.59  -26.41
    7450     450 6474517  404485 -31.86098 139.99033  160.23  0.0000 979413.74   -8.96  -23.73  -25.07  -26.88
    7450     475 6474498  404755 -31.86117 139.99318  159.88  0.0000 979413.51   -9.32  -24.05  -25.39  -27.20
    7450     500 6474516  405017 -31.86103 139.99595  159.54  0.0000 979413.87   -9.04  -23.75  -25.08  -26.89
    7450     525 6474496  405240 -31.86123 139.99831  158.85  0.0000 979414.23   -8.91  -23.56  -24.89  -26.68
    7450     550 6474489  405487 -31.86131 140.00091  157.93  0.0000 979414.57   -8.87  -23.42  -24.75  -26.53
    7450     575 6474531  405736 -31.86095 140.00355  157.36  0.0000 979415.32   -8.26  -22.77  -24.08  -25.86
    7450     600 6474518  406008 -31.86110 140.00643  157.61  0.0000 979415.48   -8.03  -22.56  -23.88  -25.66
    7450     625 6474521  406250 -31.86109 140.00899  157.74  0.0000 979415.69   -7.79  -22.33  -23.65  -25.43
    7450     650 6474525  406491 -31.86108 140.01153  158.97  0.0000 979416.35   -6.74  -21.40  -22.73  -24.53
    7450     675 6474507  406741 -31.86125 140.01417  159.86  0.0000 979415.73   -7.10  -21.84  -23.18  -24.99
    7450     700 6474484  407007 -31.86149 140.01698  160.36  0.0000 979415.68   -7.02  -21.80  -23.14  -24.96
    7450     725 6474484  407260 -31.86150 140.01965  161.37  0.0000 979415.30   -7.09  -21.97  -23.32  -25.15
    7450     750 6474495  407515 -31.86143 140.02235  162.72  0.0000 979415.13   -6.84  -21.84  -23.20  -25.04
    7450     775 6474479  407748 -31.86159 140.02481  163.68  0.0000 979415.33   -6.36  -21.44  -22.82  -24.67
    7450     800 6474500  408008 -31.86142 140.02757  164.46  0.0000 979415.87   -5.56  -20.72  -22.10  -23.96
    7450     825 6474491  408206 -31.86152 140.02966  165.03  0.0000 979415.92   -5.34  -20.55  -21.93  -23.80
    7450     850 6474493  408464 -31.86152 140.03238  165.39  0.0000 979415.97   -5.18  -20.42  -21.81  -23.68
    7450     875 6474479  408767 -31.86167 140.03558  165.60  0.0000 979415.57   -5.53  -20.79  -22.18  -24.05
    7450     900 6474533  409001 -31.86120 140.03806  165.50  0.0000 979416.11   -4.98  -20.23  -21.62  -23.49
    7450     925 6474504  409255 -31.86149 140.04074  166.24  0.0000 979416.58   -4.31  -19.63  -21.02  -22.90
    7450     950 6474514  409470 -31.86141 140.04302  166.84  0.0000 979416.04   -4.65  -20.03  -21.43  -23.31
    7450     975 6474498  409806 -31.86158 140.04657  167.98  0.0000 979415.28   -5.08  -20.56  -21.97  -23.87
    7450    1000 6474522  410006 -31.86139 140.04868  168.15  0.0000 979415.14   -5.14  -20.64  -22.05  -23.95
    7450    1025 6474496  410263 -31.86164 140.05140  168.21  0.0000 979415.76   -4.53  -20.03  -21.44  -23.34
    7450    1050 6474506  410498 -31.86156 140.05388  167.81  0.0000 979415.43   -4.97  -20.44  -21.85  -23.75
    7450    1075 6474456  410811 -31.86205 140.05718  167.68  0.0000 979415.69   -4.80  -20.25  -21.66  -23.56
    7450    1100 6474489  411086 -31.86177 140.06009  166.65  0.0000 979416.03   -4.75  -20.11  -21.51  -23.40
    7450    1125 6474479  411301 -31.86187 140.06236  165.98  0.0000 979416.18   -4.82  -20.12  -21.51  -23.39
    7450    1150 6474506  411482 -31.86165 140.06428  165.40  0.0000 979416.60   -4.55  -19.80  -21.19  -23.06
    7450    1175 6474503  411753 -31.86169 140.06715  165.01  0.0000 979416.94   -4.34  -19.55  -20.93  -22.79
    7450    1200 6474502  411973 -31.86172 140.06948  164.70  0.0000 979416.72   -4.65  -19.84  -21.22  -23.08
    7450    1225 6474506  412265 -31.86171 140.07256  163.38  0.0000 979417.18   -4.60  -19.66  -21.03  -22.88
    7450    1250 6474495  412486 -31.86183 140.07490  162.38  0.0000 979417.36   -4.74  -19.71  -21.07  -22.90
    7450    1275 6474517  412725 -31.86164 140.07742  161.68  0.0000 979417.91   -4.40  -19.30  -20.66  -22.48
    7450    1300 6474507  413015 -31.86175 140.08048  161.00  0.0000 979417.95   -4.57  -19.41  -20.76  -22.58
    7450    1325 6474522  413249 -31.86164 140.08296  160.72  0.0000 979417.75   -4.85  -19.66  -21.01  -22.83
    7450    1350 6474564  413481 -31.86127 140.08542  160.93  0.0000 979417.76   -4.74  -19.58  -20.92  -22.74
    7450    1375 6474487  413802 -31.86200 140.08880  160.87  0.0000 979418.90   -3.69  -18.51  -19.86  -21.68
    7450    1400 6474507  414045 -31.86183 140.09137  161.55  0.0000 979418.39   -3.97  -18.86  -20.21  -22.04
    7450    1425 6474500  414246 -31.86191 140.09349  161.68  0.0000 979418.06   -4.27  -19.17  -20.53  -22.36
    7450    1450 6474480  414520 -31.86211 140.09640  161.26  0.0000 979418.18   -4.29  -19.15  -20.50  -22.33
    7450    1475 6474490  414782 -31.86204 140.09916  160.87  0.0000 979418.41   -4.18  -19.01  -20.35  -22.17
    7450    1500 6474494  415012 -31.86202 140.10159  160.32  0.0000 979418.55   -4.21  -18.98  -20.33  -22.14
    7450    1525 6474498  415244 -31.86201 140.10404  161.14  0.0000 979418.45   -4.06  -18.91  -20.26  -22.08
    7450    1550 6474513  415464 -31.86189 140.10638  161.26  0.0000 979418.56   -3.90  -18.76  -20.11  -21.94
    7450    1575 6474501  415728 -31.86201 140.10916  162.09  0.0000 979418.43   -3.78  -18.72  -20.08  -21.91
    7450    1600 6474521  416003 -31.86185 140.11207  162.03  0.0000 979418.51   -3.70  -18.64  -19.99  -21.83
    7450    1625 6474525  416241 -31.86183 140.11458  162.17  0.0000 979418.72   -3.45  -18.39  -19.75  -21.59
    7450    1650 6474464  416525 -31.86240 140.11758  162.14  0.0000 979418.94   -3.29  -18.23  -19.59  -21.43
    7450    1675 6474511  416742 -31.86199 140.11988  162.17  0.0000 979418.81   -3.37  -18.32  -19.68  -21.51
    7450    1700 6474510  417034 -31.86203 140.12297  162.73  0.0000 979418.79   -3.22  -18.22  -19.59  -21.43
    7450    1725 6474496  417258 -31.86217 140.12534  161.84  0.0000 979419.30   -3.00  -17.92  -19.28  -21.11
    7450    1750 6474482  417517 -31.86231 140.12807  161.91  0.0000 979418.70   -3.59  -18.51  -19.87  -21.70
    7450    1775 6474477  417755 -31.86238 140.13059  161.81  0.0000 979419.31   -3.02  -17.93  -19.29  -21.12
    7450    1800 6474507  418018 -31.86212 140.13336  162.19  0.0000 979418.88   -3.31  -18.26  -19.62  -21.45
    7450    1825 6474524  418237 -31.86199 140.13568  162.60  0.0000 979418.96   -3.09  -18.07  -19.44  -21.28
    7450    1850 6474502  418503 -31.86220 140.13850  163.35  0.0000 979418.95   -2.88  -17.94  -19.31  -21.16
    7450    1875 6474502  418746 -31.86222 140.14106  163.62  0.0000 979418.74   -3.01  -18.09  -19.46  -21.31
    7450    1900 6474535  418986 -31.86194 140.14360  164.16  0.0000 979418.76   -2.81  -17.94  -19.31  -21.17
    7450    1925 6474481  419248 -31.86245 140.14637  164.74  0.0000 979418.29   -3.13  -18.32  -19.70  -21.56
    7450    1950 6474509  419489 -31.86221 140.14891  165.30  0.0000 979418.41   -2.83  -18.06  -19.45  -21.32
    7450    1975 6474526  419741 -31.86208 140.15158  165.97  0.0000 979418.43   -2.58  -17.88  -19.27  -21.15
    7450    2000 6474511  420018 -31.86223 140.15451  165.95  0.0000 979418.43   -2.60  -17.90  -19.29  -21.17
    7450    2025 6474519  420229 -31.86218 140.15674  166.49  0.0000 979419.03   -1.84  -17.18  -18.58  -20.46
    7450    2050 6474478  420498 -31.86257 140.15957  167.11  0.0000 979418.72   -1.98  -17.39  -18.79  -20.68
    7450    2075 6474510  420756 -31.86229 140.16231  167.95  0.0000 979417.66   -2.76  -18.24  -19.65  -21.55
    7450    2100 6474491  420995 -31.86248 140.16483  168.39  0.0000 979417.68   -2.62  -18.14  -19.55  -21.46
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    7450    2125 6474496  421238 -31.86245 140.16740  170.00  0.0000 979417.76   -2.05  -17.72  -19.14  -21.06
    7450    2150 6474506  421469 -31.86238 140.16985  172.65  0.0000 979417.96   -1.02  -16.94  -18.38  -20.34
    7450    2175 6474507  421777 -31.86239 140.17310  175.82  0.0000 979417.85   -0.15  -16.36  -17.83  -19.82
Line 7500
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    7500     200 6474976  401982 -31.85662 139.96391  163.06  0.0000 979409.89  -11.58  -26.61  -27.98  -29.82
    7500     225 6474995  402234 -31.85648 139.96659  162.88  0.0000 979410.17  -11.34  -26.36  -27.72  -29.56
    7500     250 6474960  402479 -31.85681 139.96917  162.56  0.0000 979410.60  -11.04  -26.03  -27.39  -29.23
    7500     275 6474983  402728 -31.85663 139.97180  162.03  0.0000 979411.17  -10.62  -25.55  -26.91  -28.74
    7500     300 6475016  403009 -31.85636 139.97478  161.66  0.0000 979411.42  -10.46  -25.36  -26.72  -28.54
    7500     325 6475025  403225 -31.85629 139.97706  161.34  0.0000 979411.60  -10.38  -25.25  -26.60  -28.42
    7500     350 6475016  403482 -31.85639 139.97978  160.70  0.0000 979412.80   -9.39  -24.20  -25.54  -27.36
    7500     375 6475049  403759 -31.85612 139.98271  159.85  0.0000 979412.76   -9.67  -24.40  -25.74  -27.55
    7500     400 6475023  404011 -31.85637 139.98537  158.72  0.0000 979413.12   -9.68  -24.30  -25.63  -27.43
    7500     425 6475019  404271 -31.85643 139.98812  158.48  0.0000 979413.60   -9.27  -23.88  -25.21  -27.00
    7500     450 6474994  404505 -31.85668 139.99058  158.53  0.0000 979413.30   -9.57  -24.18  -25.51  -27.31
    7500     475 6475000  404775 -31.85665 139.99344  158.24  0.0000 979413.92   -9.05  -23.63  -24.96  -26.75
    7500     500 6474998  405023 -31.85669 139.99607  157.95  0.0000 979413.78   -9.27  -23.83  -25.15  -26.94
    7500     525 6475014  405250 -31.85656 139.99846  157.44  0.0000 979413.79   -9.41  -23.93  -25.25  -27.03
    7500     550 6474993  405505 -31.85677 140.00116  156.83  0.0000 979414.49   -8.92  -23.37  -24.69  -26.46
    7500     575 6475026  405724 -31.85650 140.00347  156.27  0.0000 979414.73   -8.83  -23.24  -24.54  -26.31
    7500     600 6475035  405994 -31.85643 140.00633  155.88  0.0000 979414.82   -8.85  -23.22  -24.53  -26.29
    7500     625 6475016  406260 -31.85662 140.00913  156.52  0.0000 979415.21   -8.28  -22.71  -24.02  -25.79
    7500     650 6475023  406530 -31.85659 140.01199  157.26  0.0000 979415.24   -8.02  -22.52  -23.83  -25.61
    7500     675 6475002  406751 -31.85680 140.01433  157.98  0.0000 979415.10   -7.95  -22.51  -23.83  -25.62
    7500     700 6475014  406991 -31.85670 140.01687  159.15  0.0000 979414.93   -7.75  -22.42  -23.76  -25.56
    7500     725 6474996  407252 -31.85689 140.01962  159.94  0.0000 979414.92   -7.53  -22.28  -23.62  -25.42
    7500     750 6475019  407513 -31.85670 140.02238  160.31  0.0000 979415.02   -7.31  -22.09  -23.43  -25.24
    7500     775 6474992  407754 -31.85696 140.02493  161.38  0.0000 979415.08   -6.93  -21.81  -23.16  -24.99
    7500     800 6475029  407976 -31.85665 140.02728  161.77  0.0000 979415.28   -6.59  -21.50  -22.86  -24.69
    7500     825 6475023  408269 -31.85673 140.03037  162.14  0.0000 979415.45   -6.31  -21.26  -22.62  -24.45
    7500     850 6474991  408457 -31.85703 140.03236  162.39  0.0000 979415.79   -5.92  -20.89  -22.25  -24.09
    7500     875 6474987  408789 -31.85709 140.03586  162.74  0.0000 979415.72   -5.89  -20.89  -22.26  -24.10
    7500     900 6475001  408947 -31.85698 140.03754  162.68  0.0000 979415.68   -5.93  -20.93  -22.29  -24.13
    7500     925 6474988  409244 -31.85712 140.04067  163.59  0.0000 979415.79   -5.56  -20.64  -22.01  -23.86
    7500     950 6474987  409529 -31.85715 140.04369  164.68  0.0000 979415.80   -5.21  -20.39  -21.77  -23.63
    7500     975 6475017  409712 -31.85690 140.04562  164.80  0.0000 979416.31   -4.65  -19.84  -21.22  -23.08
    7500     976 6475005  409759 -31.85701 140.04612  165.03  0.0000 979416.18   -4.72  -19.93  -21.31  -23.18
    7500    1000 6474965  410028 -31.85739 140.04896  165.64  0.0000 979415.25   -5.49  -20.75  -22.14  -24.02
    7500    1025 6475030  410279 -31.85683 140.05162  165.67  0.0000 979415.36   -5.33  -20.60  -21.99  -23.86
    7500    1050 6475012  410515 -31.85700 140.05411  165.17  0.0000 979415.69   -5.17  -20.39  -21.77  -23.64
    7500    1075 6475022  410755 -31.85693 140.05665  164.81  0.0000 979415.81   -5.14  -20.33  -21.72  -23.58
    7500    1100 6474949  411013 -31.85761 140.05936  164.65  0.0000 979415.98   -5.08  -20.26  -21.63  -23.50
    7500    1125 6475042  411257 -31.85680 140.06195  163.64  0.0000 979416.66   -4.64  -19.73  -21.10  -22.95
    7500    1150 6475018  411510 -31.85703 140.06462  163.24  0.0000 979416.31   -5.14  -20.18  -21.55  -23.40
    7500    1175 6475063  411776 -31.85664 140.06744  162.51  0.0000 979416.39   -5.25  -20.23  -21.60  -23.43
    7500    1200 6475006  411983 -31.85717 140.06963  162.56  0.0000 979416.56   -5.11  -20.10  -21.46  -23.30
    7500    1225 6475012  412246 -31.85714 140.07240  162.01  0.0000 979416.81   -5.03  -19.96  -21.32  -23.15
    7500    1250 6475001  412476 -31.85726 140.07484  161.31  0.0000 979416.87   -5.20  -20.07  -21.42  -23.24
    7500    1275 6475013  412743 -31.85717 140.07766  160.90  0.0000 979416.69   -5.50  -20.33  -21.68  -23.50
    7500    1300 6474997  412983 -31.85733 140.08020  160.34  0.0000 979416.56   -5.81  -20.59  -21.93  -23.74
    7500    1325 6475002  413223 -31.85731 140.08273  159.74  0.0000 979417.01   -5.55  -20.27  -21.61  -23.41
    7500    1350 6475019  413469 -31.85717 140.08533  159.65  0.0000 979416.88   -5.69  -20.41  -21.74  -23.55
    7500    1375 6474999  413748 -31.85737 140.08828  159.87  0.0000 979416.95   -5.56  -20.30  -21.64  -23.45
    7500    1400 6474994  413980 -31.85743 140.09073  159.85  0.0000 979416.90   -5.63  -20.36  -21.70  -23.51
    7500    1425 6474975  414277 -31.85763 140.09387  160.25  0.0000 979417.30   -5.12  -19.89  -21.23  -23.04
    7500    1450 6475024  414510 -31.85721 140.09633  159.95  0.0000 979417.51   -4.97  -19.72  -21.06  -22.86
    7500    1475 6474999  414791 -31.85745 140.09930  159.44  0.0000 979417.89   -4.77  -19.46  -20.80  -22.60
    7500    1500 6475000  415018 -31.85746 140.10170  160.41  0.0000 979417.77   -4.59  -19.37  -20.72  -22.53
    7500    1525 6474988  415268 -31.85759 140.10434  160.44  0.0000 979418.07   -4.29  -19.08  -20.42  -22.24
    7500    1550 6475024  415520 -31.85728 140.10701  161.75  0.0000 979417.78   -4.15  -19.06  -20.41  -22.24
    7500    1575 6475002  415742 -31.85750 140.10935  161.10  0.0000 979417.95   -4.20  -19.05  -20.40  -22.22
    7500    1600 6475004  416030 -31.85750 140.11240  160.78  0.0000 979418.38   -3.86  -18.68  -20.03  -21.85
    7500    1625 6475012  416235 -31.85744 140.11457  161.09  0.0000 979418.30   -3.85  -18.69  -20.04  -21.87
    7500    1650 6475016  416481 -31.85742 140.11717  161.47  0.0000 979418.34   -3.69  -18.57  -19.92  -21.75
    7500    1675 6475002  416759 -31.85757 140.12010  161.10  0.0000 979418.45   -3.71  -18.55  -19.90  -21.73
    7500    1700 6474980  416985 -31.85778 140.12249  161.36  0.0000 979418.42   -3.68  -18.55  -19.90  -21.73
    7500    1725 6475026  417225 -31.85738 140.12503  161.61  0.0000 979418.40   -3.58  -18.47  -19.83  -21.66
    7500    1750 6474995  417506 -31.85769 140.12799  161.34  0.0000 979418.82   -3.26  -18.14  -19.49  -21.31
    7500    1775 6474957  417757 -31.85805 140.13064  161.01  0.0000 979419.48   -2.74  -17.58  -18.93  -20.75
    7500    1800 6475008  417992 -31.85760 140.13314  161.44  0.0000 979419.32   -2.73  -17.62  -18.97  -20.79
    7500    1825 6475007  418240 -31.85763 140.13575  161.88  0.0000 979419.17   -2.75  -17.67  -19.02  -20.86
    7500    1850 6475009  418449 -31.85763 140.13797  162.33  0.0000 979419.09   -2.69  -17.65  -19.01  -20.85
    7500    1875 6475034  418744 -31.85743 140.14109  163.11  0.0000 979418.94   -2.58  -17.61  -18.98  -20.82
    7500    1900 6475007  419002 -31.85769 140.14381  163.49  0.0000 979419.02   -2.41  -17.48  -18.85  -20.70
    7500    1925 6475024  419224 -31.85755 140.14616  163.92  0.0000 979418.44   -2.84  -17.95  -19.32  -21.18
    7500    1950 6474978  419516 -31.85798 140.14924  164.22  0.0000 979418.10   -3.13  -18.27  -19.64  -21.50
    7500    1975 6474981  419769 -31.85797 140.15192  165.24  0.0000 979418.18   -2.73  -17.96  -19.34  -21.21
    7500    2000 6475016  419977 -31.85767 140.15412  165.19  0.0000 979418.42   -2.48  -17.71  -19.09  -20.96
    7500    2025 6475032  420237 -31.85754 140.15687  165.77  0.0000 979418.00   -2.71  -17.99  -19.37  -21.25
    7500    2050 6474989  420531 -31.85795 140.15997  166.48  0.0000 979418.16   -2.36  -17.70  -19.10  -20.98
    7500    2075 6475016  420767 -31.85773 140.16246  167.37  0.0000 979417.61   -2.62  -18.04  -19.45  -21.34
    7500    2100 6475001  420985 -31.85788 140.16477  168.13  0.0000 979417.37   -2.64  -18.13  -19.54  -21.44
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    7500    2125 6474960  421235 -31.85827 140.16740  169.96  0.0000 979417.79   -1.69  -17.36  -18.78  -20.70
    7500    2150 6475025  421464 -31.85769 140.16984  171.73  0.0000 979417.27   -1.62  -17.45  -18.88  -20.83
    7500    2175 6474996  421736 -31.85797 140.17270  174.50  0.0000 979416.88   -1.18  -17.26  -18.72  -20.70
Line 7550
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    7550     200 6475486  402029 -31.85203 139.96446  161.38  0.0000 979410.00  -11.62  -26.49  -27.84  -29.67
    7550     225 6475485  402245 -31.85206 139.96676  161.28  0.0000 979410.18  -11.47  -26.34  -27.69  -29.51
    7550     250 6475497  402511 -31.85197 139.96957  160.91  0.0000 979410.30  -11.46  -26.29  -27.64  -29.46
    7550     275 6475537  402746 -31.85163 139.97205  160.49  0.0000 979410.62  -11.24  -26.03  -27.38  -29.19
    7550     300 6475531  402985 -31.85171 139.97458  160.34  0.0000 979410.90  -11.01  -25.79  -27.14  -28.95
    7550     325 6475522  403246 -31.85181 139.97734  160.02  0.0000 979411.27  -10.75  -25.50  -26.84  -28.65
    7550     350 6475509  403501 -31.85195 139.98002  159.73  0.0000 979411.62  -10.50  -25.23  -26.57  -28.37
    7550     375 6475529  403762 -31.85179 139.98279  159.04  0.0000 979411.95  -10.37  -25.03  -26.36  -28.16
    7550     400 6475515  403997 -31.85194 139.98527  158.34  0.0000 979412.41  -10.14  -24.73  -26.06  -27.85
    7550     425 6475528  404254 -31.85184 139.98799  157.56  0.0000 979412.85   -9.93  -24.46  -25.78  -27.56
    7550     450 6475506  404494 -31.85206 139.99052  157.02  0.0000 979413.21   -9.76  -24.23  -25.55  -27.33
    7550     475 6475507  404728 -31.85207 139.99300  156.40  0.0000 979413.60   -9.56  -23.97  -25.28  -27.05
    7550     500 6475488  405008 -31.85227 139.99596  156.64  0.0000 979413.74   -9.36  -23.79  -25.11  -26.88
    7550     525 6475526  405243 -31.85194 139.99844  155.99  0.0000 979414.15   -9.12  -23.50  -24.81  -26.57
    7550     550 6475509  405513 -31.85212 140.00129  155.42  0.0000 979414.23   -9.24  -23.57  -24.87  -26.63
    7550     575 6475499  405759 -31.85223 140.00389  155.21  0.0000 979414.50   -9.04  -23.35  -24.65  -26.40
    7550     600 6475504  406009 -31.85221 140.00653  155.15  0.0000 979414.78   -8.78  -23.08  -24.38  -26.14
    7550     625 6475490  406245 -31.85235 140.00902  155.34  0.0000 979414.65   -8.85  -23.17  -24.47  -26.23
    7550     650 6475500  406484 -31.85228 140.01155  155.63  0.0000 979414.89   -8.53  -22.87  -24.18  -25.94
    7550     675 6475518  406741 -31.85214 140.01427  156.05  0.0000 979415.03   -8.24  -22.63  -23.93  -25.70
    7550     700 6475524  406981 -31.85210 140.01680  156.73  0.0000 979414.84   -8.22  -22.67  -23.98  -25.75
    7550     725 6475516  407235 -31.85220 140.01949  157.52  0.0000 979414.80   -8.03  -22.55  -23.87  -25.65
    7550     750 6475511  407495 -31.85226 140.02224  158.67  0.0000 979414.80   -7.68  -22.30  -23.63  -25.43
    7550     775 6475497  407785 -31.85241 140.02530  159.49  0.0000 979414.89   -7.34  -22.04  -23.38  -25.18
    7550     800 6475522  408027 -31.85221 140.02786  159.66  0.0000 979414.91   -7.25  -21.97  -23.31  -25.11
    7550     825 6475471  408269 -31.85269 140.03042  160.04  0.0000 979414.96   -7.12  -21.87  -23.21  -25.02
    7550     850 6475516  408508 -31.85230 140.03294  159.79  0.0000 979414.85   -7.28  -22.01  -23.35  -25.15
    7550     875 6475516  408743 -31.85232 140.03543  159.98  0.0000 979414.97   -7.10  -21.85  -23.19  -25.00
    7550     900 6475477  409009 -31.85269 140.03823  160.50  0.0000 979415.12   -6.82  -21.61  -22.96  -24.77
    7550     925 6475505  409241 -31.85245 140.04069  161.36  0.0000 979415.04   -6.62  -21.49  -22.84  -24.67
    7550     950 6475492  409484 -31.85259 140.04325  161.75  0.0000 979415.22   -6.33  -21.23  -22.59  -24.42
    7550     975 6475484  409765 -31.85268 140.04623  162.89  0.0000 979415.32   -5.88  -20.90  -22.26  -24.10
    7550    1000 6475507  409997 -31.85249 140.04868  162.88  0.0000 979415.15   -6.04  -21.06  -22.42  -24.26
    7550    1025 6475511  410234 -31.85248 140.05119  162.54  0.0000 979415.39   -5.90  -20.88  -22.25  -24.09
    7550    1050 6475519  410479 -31.85243 140.05378  162.33  0.0000 979415.70   -5.66  -20.62  -21.98  -23.82
    7550    1075 6475508  410725 -31.85255 140.05637  162.42  0.0000 979415.84   -5.50  -20.47  -21.83  -23.67
    7550    1100 6475492  410999 -31.85271 140.05926  161.69  0.0000 979416.15   -5.43  -20.34  -21.69  -23.52
    7550    1125 6475486  411238 -31.85278 140.06179  161.33  0.0000 979416.53   -5.17  -20.04  -21.39  -23.21
    7550    1150 6475486  411519 -31.85281 140.06477  161.06  0.0000 979416.50   -5.28  -20.13  -21.48  -23.30
    7550    1175 6475480  411746 -31.85288 140.06716  160.87  0.0000 979416.42   -5.42  -20.25  -21.60  -23.42
    7550    1200 6475479  412012 -31.85291 140.06998  160.69  0.0000 979416.60   -5.30  -20.11  -21.45  -23.27
    7550    1225 6475520  412210 -31.85255 140.07207  160.18  0.0000 979416.83   -5.20  -19.97  -21.31  -23.12
    7550    1250 6475484  412516 -31.85291 140.07530  159.99  0.0000 979416.60   -5.51  -20.26  -21.60  -23.41
    7550    1275 6475442  412753 -31.85330 140.07780  159.58  0.0000 979416.58   -5.69  -20.40  -21.74  -23.54
    7550    1300 6475534  412969 -31.85249 140.08009  159.00  0.0000 979416.70   -5.69  -20.34  -21.67  -23.47
    7550    1325 6475502  413271 -31.85280 140.08328  158.92  0.0000 979416.41   -6.03  -20.68  -22.01  -23.81
    7550    1350 6475498  413482 -31.85285 140.08551  158.31  0.0000 979416.86   -5.77  -20.36  -21.69  -23.48
    7550    1375 6475496  413737 -31.85289 140.08821  158.41  0.0000 979417.26   -5.34  -19.94  -21.27  -23.06
    7550    1400 6475504  413972 -31.85283 140.09069  158.85  0.0000 979417.47   -5.00  -19.64  -20.97  -22.77
    7550    1425 6475503  414266 -31.85286 140.09379  156.84  0.0000 979417.80   -5.28  -19.74  -21.05  -22.83
    7550    1450 6475515  414475 -31.85278 140.09601  159.14  0.0000 979417.23   -5.14  -19.81  -21.14  -22.94
    7550    1475 6475513  414760 -31.85281 140.09902  159.63  0.0000 979417.24   -4.99  -19.70  -21.04  -22.84
    7550    1500 6475514  414977 -31.85282 140.10131  159.44  0.0000 979417.46   -4.82  -19.52  -20.85  -22.66
    7550    1525 6475513  415273 -31.85285 140.10444  159.19  0.0000 979417.73   -4.63  -19.31  -20.64  -22.44
    7550    1550 6475514  415505 -31.85285 140.10689  158.79  0.0000 979417.80   -4.68  -19.32  -20.65  -22.44
    7550    1575 6475485  415754 -31.85314 140.10952  159.15  0.0000 979417.75   -4.65  -19.32  -20.65  -22.45
    7550    1600 6475493  416004 -31.85309 140.11217  159.47  0.0000 979417.86   -4.44  -19.14  -20.47  -22.28
    7550    1625 6475521  416239 -31.85285 140.11465  160.11  0.0000 979417.75   -4.32  -19.08  -20.42  -22.24
    7550    1650 6475490  416514 -31.85315 140.11756  160.12  0.0000 979418.02   -4.08  -18.84  -20.18  -21.99
    7550    1675 6475491  416739 -31.85315 140.11993  160.71  0.0000 979418.01   -3.91  -18.72  -20.07  -21.89
    7550    1700 6475455  416985 -31.85350 140.12253  160.12  0.0000 979418.62   -3.51  -18.26  -19.61  -21.42
    7550    1725 6475491  417262 -31.85319 140.12546  160.57  0.0000 979418.93   -3.03  -17.83  -19.18  -20.99
    7550    1750 6475494  417502 -31.85318 140.12799  160.32  0.0000 979419.49   -2.55  -17.33  -18.67  -20.49
    7550    1775 6475482  417780 -31.85331 140.13094  160.62  0.0000 979419.63   -2.32  -17.13  -18.47  -20.29
    7550    1800 6475492  417977 -31.85324 140.13301  160.60  0.0000 979419.30   -2.65  -17.46  -18.80  -20.62
    7550    1825 6475535  418238 -31.85287 140.13578  161.25  0.0000 979418.71   -3.02  -17.88  -19.23  -21.06
    7550    1850 6475516  418478 -31.85305 140.13832  161.94  0.0000 979418.51   -3.02  -17.94  -19.30  -21.13
    7550    1875 6475460  418681 -31.85358 140.14045  162.31  0.0000 979418.71   -2.75  -17.71  -19.07  -20.90
    7550    1900 6475468  418978 -31.85352 140.14360  162.73  0.0000 979418.91   -2.41  -17.41  -18.77  -20.61
    7550    1925 6475505  419238 -31.85321 140.14634  162.83  0.0000 979418.82   -2.45  -17.46  -18.82  -20.67
    7550    1950 6475471  419498 -31.85354 140.14909  162.95  0.0000 979418.75   -2.51  -17.53  -18.89  -20.73
    7550    1975 6475496  419715 -31.85333 140.15138  163.60  0.0000 979418.27   -2.77  -17.85  -19.22  -21.07
    7550    2000 6475482  419990 -31.85347 140.15429  164.43  0.0000 979418.62   -2.18  -17.33  -18.71  -20.57
    7550    2025 6475507  420247 -31.85326 140.15701  169.16  0.0000 979417.92   -1.39  -16.99  -18.40  -20.32
    7550    2050 6475516  420457 -31.85320 140.15923  167.56  0.0000 979417.73   -2.08  -17.52  -18.92  -20.82
    7550    2075 6475514  420738 -31.85323 140.16220  167.54  0.0000 979417.70   -2.12  -17.56  -18.97  -20.86
    7550    2100 6475501  420980 -31.85337 140.16476  168.32  0.0000 979417.11   -2.47  -17.99  -19.40  -21.30
    7550    2125 6475482  421240 -31.85356 140.16751  169.84  0.0000 979417.40   -1.73  -17.39  -18.81  -20.73
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    7550    2150 6475488  421489 -31.85352 140.17014  170.84  0.0000 979416.82   -2.00  -17.75  -19.18  -21.11
    7550    2175 6475477  421756 -31.85364 140.17296  173.00  0.0000 979416.75   -1.41  -17.35  -18.80  -20.76
Line 7600
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================================
    7600     200 6476000  401982 -31.84739 139.96403  159.72  0.0000 979409.99  -11.77  -26.49  -27.83  -29.63
    7600     225 6475998  402256 -31.84743 139.96692  158.85  0.0000 979410.31  -11.72  -26.36  -27.69  -29.48
    7600     250 6475985  402515 -31.84757 139.96966  159.17  0.0000 979411.01  -10.93  -25.60  -26.93  -28.73
    7600     275 6476006  402753 -31.84740 139.97217  160.56  0.0000 979410.81  -10.69  -25.49  -26.84  -28.65
    7600     300 6476015  402991 -31.84734 139.97469  160.74  0.0000 979411.21  -10.23  -25.04  -26.39  -28.21
    7600     325 6476013  403229 -31.84738 139.97721  159.68  0.0000 979411.53  -10.23  -24.95  -26.29  -28.10
    7600     350 6476000  403512 -31.84753 139.98019  158.08  0.0000 979411.91  -10.36  -24.93  -26.26  -28.05
    7600     375 6475995  403745 -31.84758 139.98265  157.47  0.0000 979412.81   -9.65  -24.17  -25.49  -27.27
    7600     400 6476027  403996 -31.84732 139.98530  156.92  0.0000 979412.49  -10.13  -24.59  -25.91  -27.68
    7600     425 6475988  404276 -31.84770 139.98827  156.25  0.0000 979412.80  -10.05  -24.45  -25.76  -27.53
    7600     450 6475989  404489 -31.84770 139.99051  155.74  0.0000 979413.89   -9.12  -23.47  -24.78  -26.54
    7600     475 6476014  404758 -31.84750 139.99337  154.98  0.0000 979413.82   -9.41  -23.69  -24.99  -26.75
    7600     500 6476006  405005 -31.84759 139.99597  154.93  0.0000 979414.12   -9.13  -23.41  -24.71  -26.46
    7600     525 6476021  405213 -31.84748 139.99817  154.52  0.0000 979414.02   -9.35  -23.59  -24.88  -26.63
    7600     550 6476022  405450 -31.84749 140.00068  154.06  0.0000 979414.34   -9.17  -23.37  -24.66  -26.41
    7600     575 6476034  405751 -31.84740 140.00385  154.02  0.0000 979414.59   -8.92  -23.12  -24.41  -26.15
    7600     600 6476010  405998 -31.84764 140.00647  154.10  0.0000 979414.68   -8.82  -23.03  -24.32  -26.06
    7600     625 6475999  406257 -31.84776 140.00920  154.35  0.0000 979414.61   -8.83  -23.06  -24.35  -26.10
    7600     650 6476016  406502 -31.84763 140.01179  154.39  0.0000 979414.74   -8.68  -22.91  -24.20  -25.95
    7600     675 6476002  406768 -31.84778 140.01460  154.51  0.0000 979414.95   -8.44  -22.68  -23.98  -25.72
    7600     700 6476011  407005 -31.84771 140.01710  154.85  0.0000 979414.91   -8.37  -22.65  -23.94  -25.69
    7600     725 6476012  407247 -31.84772 140.01966  155.35  0.0000 979415.04   -8.09  -22.41  -23.71  -25.47
    7600     750 6476010  407486 -31.84776 140.02219  156.18  0.0000 979414.99   -7.89  -22.28  -23.59  -25.36
    7600     775 6476006  407740 -31.84782 140.02488  156.38  0.0000 979414.90   -7.92  -22.34  -23.65  -25.42
    7600     800 6475991  408009 -31.84797 140.02771  156.78  0.0000 979415.20   -7.51  -21.96  -23.28  -25.05
    7600     825 6475987  408261 -31.84803 140.03037  157.21  0.0000 979415.17   -7.41  -21.91  -23.22  -25.00
    7600     850 6475996  408495 -31.84796 140.03285  157.60  0.0000 979415.15   -7.31  -21.83  -23.15  -24.94
    7600     875 6475982  408770 -31.84811 140.03575  158.09  0.0000 979415.13   -7.19  -21.76  -23.09  -24.87
    7600     900 6475996  409009 -31.84801 140.03828  158.48  0.0000 979415.28   -6.91  -21.51  -22.84  -24.63
    7600     925 6475992  409244 -31.84806 140.04077  159.19  0.0000 979415.16   -6.81  -21.49  -22.82  -24.62
    7600     950 6476013  409506 -31.84790 140.04354  159.36  0.0000 979415.13   -6.78  -21.47  -22.80  -24.60
    7600     975 6476003  409763 -31.84801 140.04626  159.28  0.0000 979415.34   -6.61  -21.29  -22.62  -24.42
    7600    1000 6475991  410029 -31.84814 140.04906  159.10  0.0000 979415.38   -6.63  -21.30  -22.63  -24.43
    7600    1025 6476023  410256 -31.84787 140.05147  159.13  0.0000 979415.56   -6.42  -21.08  -22.42  -24.22
    7600    1050 6476021  410490 -31.84790 140.05394  159.00  0.0000 979415.84   -6.17  -20.83  -22.16  -23.96
    7600    1075 6476028  410740 -31.84786 140.05658  158.91  0.0000 979415.83   -6.21  -20.86  -22.19  -23.99
    7600    1100 6476015  411008 -31.84799 140.05941  158.93  0.0000 979416.07   -5.98  -20.63  -21.96  -23.76
    7600    1125 6476021  411210 -31.84796 140.06155  158.81  0.0000 979416.09   -5.99  -20.63  -21.96  -23.76
    7600    1150 6475970  411536 -31.84844 140.06499  159.01  0.0000 979416.22   -5.84  -20.49  -21.82  -23.62
    7600    1175 6475997  411728 -31.84821 140.06702  158.73  0.0000 979416.32   -5.81  -20.44  -21.77  -23.56
    7600    1200 6476032  411977 -31.84791 140.06965  158.37  0.0000 979416.57   -5.64  -20.24  -21.57  -23.36
    7600    1225 6476023  412169 -31.84802 140.07168  158.32  0.0000 979416.58   -5.65  -20.25  -21.57  -23.36
    7600    1250 6476010  412506 -31.84816 140.07524  158.27  0.0000 979416.65   -5.62  -20.21  -21.53  -23.32
    7600    1275 6475981  412756 -31.84844 140.07788  158.03  0.0000 979416.70   -5.66  -20.23  -21.55  -23.34
    7600    1300 6476032  413013 -31.84800 140.08061  157.72  0.0000 979416.65   -5.77  -20.31  -21.63  -23.42
    7600    1325 6476010  413270 -31.84821 140.08332  157.48  0.0000 979417.00   -5.51  -20.03  -21.35  -23.13
    7600    1350 6476011  413493 -31.84822 140.08568  157.02  0.0000 979417.19   -5.46  -19.94  -21.25  -23.03
    7600    1375 6475992  413752 -31.84841 140.08841  156.18  0.0000 979417.48   -5.45  -19.85  -21.16  -22.92
    7600    1400 6476006  414001 -31.84831 140.09104  157.87  0.0000 979417.14   -5.26  -19.81  -21.13  -22.92
    7600    1425 6476009  414260 -31.84830 140.09377  158.42  0.0000 979417.18   -5.05  -19.65  -20.98  -22.77
    7600    1450 6476017  414500 -31.84825 140.09632  158.78  0.0000 979417.20   -4.91  -19.54  -20.87  -22.67
    7600    1475 6476019  414762 -31.84825 140.09909  158.82  0.0000 979417.35   -4.75  -19.39  -20.72  -22.52
    7600    1500 6475993  415000 -31.84850 140.10160  158.23  0.0000 979417.62   -4.69  -19.27  -20.60  -22.39
    7600    1525 6475980  415273 -31.84864 140.10448  158.20  0.0000 979417.91   -4.41  -18.99  -20.32  -22.11
    7600    1550 6476008  415499 -31.84840 140.10688  157.83  0.0000 979418.14   -4.28  -18.82  -20.15  -21.93
    7600    1575 6476001  415755 -31.84848 140.10958  157.93  0.0000 979418.26   -4.13  -18.69  -20.02  -21.80
    7600    1600 6476019  415971 -31.84833 140.11186  158.01  0.0000 979418.29   -4.07  -18.63  -19.96  -21.74
    7600    1625 6475979  416246 -31.84872 140.11476  158.86  0.0000 979417.85   -4.27  -18.92  -20.25  -22.04
    7600    1650 6476016  416527 -31.84841 140.11774  159.16  0.0000 979418.11   -3.90  -18.57  -19.91  -21.71
    7600    1675 6475988  416756 -31.84868 140.12016  159.22  0.0000 979418.31   -3.71  -18.38  -19.72  -21.52
    7600    1700 6476025  416968 -31.84835 140.12240  159.57  0.0000 979418.42   -3.46  -18.16  -19.50  -21.31
    7600    1725 6475984  417260 -31.84874 140.12548  159.48  0.0000 979418.57   -3.37  -18.07  -19.40  -21.21
    7600    1750 6476028  417534 -31.84837 140.12838  160.09  0.0000 979418.84   -2.88  -17.63  -18.98  -20.79
    7600    1775 6476043  417727 -31.84825 140.13042  159.74  0.0000 979418.57   -3.25  -17.98  -19.32  -21.12
    7600    1800 6475994  418012 -31.84871 140.13343  160.15  0.0000 979418.68   -3.05  -17.81  -19.15  -20.96
    7600    1825 6476019  418267 -31.84851 140.13613  160.71  0.0000 979418.54   -3.00  -17.81  -19.16  -20.97
    7600    1850 6476026  418506 -31.84845 140.13866  161.08  0.0000 979418.47   -2.95  -17.80  -19.15  -20.97
    7600    1875 6476014  418745 -31.84858 140.14118  161.52  0.0000 979418.17   -3.12  -18.01  -19.36  -21.19
    7600    1900 6476022  419003 -31.84853 140.14391  161.65  0.0000 979418.00   -3.25  -18.15  -19.50  -21.33
    7600    1925 6475991  419248 -31.84883 140.14649  161.91  0.0000 979418.43   -2.77  -17.69  -19.05  -20.88
    7600    1950 6475970  419508 -31.84904 140.14924  162.35  0.0000 979418.95   -2.13  -17.09  -18.45  -20.29
    7600    1975 6475978  419771 -31.84898 140.15202  162.89  0.0000 979418.86   -2.04  -17.05  -18.42  -20.26
    7600    2000 6475995  419987 -31.84884 140.15430  164.05  0.0000 979418.34   -2.20  -17.32  -18.70  -20.55
    7600    2025 6476026  420193 -31.84858 140.15648  164.22  0.0000 979418.20   -2.26  -17.40  -18.78  -20.63
    7600    2050 6476009  420502 -31.84875 140.15974  165.36  0.0000 979418.75   -1.37  -16.61  -18.00  -19.87
    7600    2075 6475993  420739 -31.84892 140.16225  166.93  0.0000 979418.11   -1.55  -16.93  -18.33  -20.22
    7600    2100 6476001  421004 -31.84886 140.16505  167.51  0.0000 979417.65   -1.82  -17.26  -18.66  -20.55
    7600    2125 6475998  421263 -31.84890 140.16779  169.74  0.0000 979417.28   -1.50  -17.15  -18.57  -20.49
    7600    2150 6475978  421522 -31.84910 140.17052  171.72  0.0000 979417.25   -0.94  -16.76  -18.20  -20.15
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    7600    2175 6475996  421770 -31.84896 140.17315  170.34  0.0000 979417.11   -1.50  -17.20  -18.62  -20.55
Line 7650
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    7650     200 6476509  401995 -31.84280 139.96421  157.81  0.0000 979410.40  -11.58  -26.12  -27.44  -29.23
    7650     225 6476499  402249 -31.84292 139.96690  157.58  0.0000 979410.88  -11.18  -25.70  -27.02  -28.80
    7650     250 6476509  402492 -31.84285 139.96946  160.51  0.0000 979410.75  -10.39  -25.18  -26.53  -28.34
    7650     275 6476491  402740 -31.84302 139.97208  163.33  0.0000 979411.15   -9.14  -24.19  -25.56  -27.41
    7650     300 6476516  403011 -31.84282 139.97495  162.56  0.0000 979411.80   -8.71  -23.69  -25.05  -26.89
    7650     325 6476496  403251 -31.84303 139.97748  161.25  0.0000 979412.02   -8.91  -23.77  -25.12  -26.95
    7650     350 6476487  403510 -31.84312 139.98022  159.43  0.0000 979412.74   -8.76  -23.46  -24.79  -26.59
    7650     375 6476491  403746 -31.84311 139.98272  156.84  0.0000 979413.24   -9.06  -23.51  -24.83  -26.60
    7650     400 6476511  403992 -31.84295 139.98532  155.71  0.0000 979413.35   -9.28  -23.63  -24.94  -26.70
    7650     425 6476525  404255 -31.84284 139.98809  154.92  0.0000 979413.37   -9.50  -23.78  -25.08  -26.83
    7650     450 6476498  404510 -31.84311 139.99079  154.80  0.0000 979414.18   -8.75  -23.01  -24.31  -26.06
    7650     475 6476485  404768 -31.84325 139.99352  153.63  0.0000 979413.93   -9.37  -23.53  -24.82  -26.56
    7650     500 6476509  405003 -31.84305 139.99600  153.10  0.0000 979414.54   -8.91  -23.02  -24.30  -26.03
    7650     525 6476507  405249 -31.84309 139.99860  152.79  0.0000 979414.53   -9.02  -23.10  -24.38  -26.11
    7650     550 6476512  405488 -31.84306 140.00112  152.72  0.0000 979414.45   -9.12  -23.20  -24.48  -26.20
    7650     575 6476479  405775 -31.84339 140.00415  153.08  0.0000 979414.38   -9.11  -23.21  -24.50  -26.23
    7650     600 6476489  406008 -31.84331 140.00662  153.12  0.0000 979414.58   -8.88  -22.99  -24.28  -26.01
    7650     625 6476470  406249 -31.84351 140.00917  153.35  0.0000 979414.72   -8.69  -22.83  -24.11  -25.85
    7650     650 6476502  406501 -31.84324 140.01182  153.35  0.0000 979414.67   -8.72  -22.85  -24.14  -25.87
    7650     675 6476497  406758 -31.84331 140.01454  153.17  0.0000 979414.63   -8.82  -22.94  -24.22  -25.95
    7650     700 6476479  406976 -31.84349 140.01684  153.17  0.0000 979414.78   -8.68  -22.79  -24.08  -25.81
    7650     725 6476495  407244 -31.84337 140.01968  153.32  0.0000 979414.79   -8.61  -22.74  -24.03  -25.76
    7650     750 6476515  407521 -31.84321 140.02261  153.45  0.0000 979414.50   -8.85  -22.99  -24.28  -26.01
    7650     775 6476513  407740 -31.84324 140.02492  153.91  0.0000 979414.57   -8.64  -22.83  -24.12  -25.86
    7650     800 6476528  408005 -31.84313 140.02773  154.52  0.0000 979414.73   -8.28  -22.52  -23.82  -25.57
    7650     825 6476518  408263 -31.84324 140.03045  155.05  0.0000 979414.87   -7.99  -22.28  -23.58  -25.34
    7650     850 6476486  408488 -31.84355 140.03282  155.53  0.0000 979415.07   -7.67  -22.00  -23.30  -25.06
    7650     875 6476533  408735 -31.84314 140.03544  155.93  0.0000 979415.10   -7.48  -21.85  -23.16  -24.92
    7650     900 6476511  408985 -31.84337 140.03807  156.46  0.0000 979415.45   -6.99  -21.41  -22.72  -24.49
    7650     925 6476501  409263 -31.84348 140.04101  156.69  0.0000 979415.72   -6.65  -21.09  -22.41  -24.18
    7650     950 6476506  409504 -31.84345 140.04356  156.73  0.0000 979415.63   -6.73  -21.18  -22.49  -24.26
    7650     975 6476469  409744 -31.84380 140.04610  156.83  0.0000 979415.69   -6.67  -21.12  -22.44  -24.21
    7650    1000 6476521  410007 -31.84336 140.04888  156.81  0.0000 979415.58   -6.75  -21.20  -22.52  -24.29
    7650    1025 6476512  410203 -31.84345 140.05095  156.77  0.0000 979415.62   -6.73  -21.18  -22.49  -24.27
    7650    1050 6476497  410509 -31.84361 140.05419  156.56  0.0000 979415.72   -6.71  -21.14  -22.45  -24.22
    7650    1075 6476508  410778 -31.84353 140.05703  156.07  0.0000 979415.99   -6.58  -20.96  -22.27  -24.03
    7650    1100 6476507  411003 -31.84356 140.05940  155.81  0.0000 979416.42   -6.23  -20.59  -21.90  -23.66
    7650    1125 6476493  411232 -31.84370 140.06182  156.24  0.0000 979416.48   -6.05  -20.45  -21.76  -23.53
    7650    1150 6476484  411528 -31.84381 140.06495  156.77  0.0000 979416.49   -5.88  -20.33  -21.65  -23.42
    7650    1175 6476482  411765 -31.84384 140.06745  156.66  0.0000 979416.41   -6.00  -20.44  -21.75  -23.53
    7650    1200 6476497  412024 -31.84372 140.07019  156.77  0.0000 979416.78   -5.59  -20.04  -21.36  -23.13
    7650    1225 6476500  412219 -31.84371 140.07226  156.96  0.0000 979416.57   -5.74  -20.20  -21.52  -23.30
    7650    1250 6476495  412493 -31.84378 140.07515  157.17  0.0000 979416.52   -5.73  -20.21  -21.53  -23.31
    7650    1275 6476519  412736 -31.84358 140.07772  156.87  0.0000 979416.57   -5.76  -20.22  -21.53  -23.31
    7650    1300 6476505  413008 -31.84373 140.08059  156.81  0.0000 979416.79   -5.57  -20.02  -21.33  -23.11
    7650    1325 6476504  413249 -31.84376 140.08314  156.05  0.0000 979416.99   -5.60  -19.99  -21.29  -23.06
    7650    1350 6476533  413488 -31.84352 140.08567  157.08  0.0000 979416.86   -5.39  -19.87  -21.19  -22.96
    7650    1375 6476512  413768 -31.84372 140.08862  157.04  0.0000 979417.10   -5.18  -19.66  -20.97  -22.75
    7650    1400 6476513  414005 -31.84373 140.09113  157.63  0.0000 979417.10   -5.00  -19.53  -20.85  -22.63
    7650    1425 6476493  414262 -31.84393 140.09384  157.56  0.0000 979417.23   -4.91  -19.44  -20.76  -22.54
    7650    1450 6476530  414480 -31.84361 140.09615  157.44  0.0000 979417.43   -4.72  -19.24  -20.55  -22.34
    7650    1475 6476530  414805 -31.84364 140.09958  157.27  0.0000 979417.38   -4.83  -19.33  -20.65  -22.42
    7650    1500 6476511  415003 -31.84382 140.10168  156.87  0.0000 979417.70   -4.65  -19.11  -20.42  -22.20
    7650    1525 6476526  415207 -31.84371 140.10383  156.74  0.0000 979418.05   -4.33  -18.78  -20.09  -21.86
    7650    1550 6476548  415496 -31.84353 140.10689  156.81  0.0000 979418.34   -4.01  -18.46  -19.77  -21.55
    7650    1575 6476509  415751 -31.84390 140.10958  156.81  0.0000 979418.66   -3.72  -18.17  -19.48  -21.26
    7650    1600 6476504  416004 -31.84396 140.11225  157.39  0.0000 979418.44   -3.75  -18.26  -19.58  -21.36
    7650    1625 6476481  416268 -31.84419 140.11504  157.87  0.0000 979418.51   -3.56  -18.11  -19.43  -21.22
    7650    1650 6476515  416516 -31.84390 140.11766  158.23  0.0000 979418.50   -3.43  -18.01  -19.34  -21.13
    7650    1675 6476503  416723 -31.84402 140.11986  158.66  0.0000 979418.45   -3.36  -17.98  -19.31  -21.11
    7650    1700 6476522  417045 -31.84388 140.12326  158.46  0.0000 979418.80   -3.06  -17.66  -18.99  -20.78
    7650    1725 6476533  417249 -31.84380 140.12541  159.47  0.0000 979418.83   -2.72  -17.41  -18.75  -20.55
    7650    1750 6476489  417494 -31.84421 140.12800  159.47  0.0000 979418.48   -3.09  -17.79  -19.13  -20.93
    7650    1775 6476464  417788 -31.84446 140.13110  159.12  0.0000 979418.77   -2.93  -17.60  -18.93  -20.73
    7650    1800 6476523  417964 -31.84394 140.13296  159.78  0.0000 979418.73   -2.73  -17.46  -18.79  -20.60
    7650    1825 6476487  418223 -31.84427 140.13570  159.95  0.0000 979418.65   -2.78  -17.52  -18.86  -20.67
    7650    1850 6476541  418505 -31.84381 140.13869  161.45  0.0000 979418.04   -2.89  -17.77  -19.12  -20.95
    7650    1875 6476483  418744 -31.84435 140.14121  160.42  0.0000 979418.19   -3.10  -17.89  -19.23  -21.05
    7650    1900 6476502  418987 -31.84420 140.14378  160.76  0.0000 979418.19   -2.98  -17.80  -19.15  -20.97
    7650    1925 6476508  419227 -31.84416 140.14632  161.13  0.0000 979418.00   -3.06  -17.91  -19.26  -21.08
    7650    1950 6476526  419496 -31.84401 140.14916  161.68  0.0000 979417.46   -3.42  -18.32  -19.68  -21.51
    7650    1975 6476507  419766 -31.84420 140.15201  161.75  0.0000 979418.81   -2.06  -16.97  -18.32  -20.15
    7650    2000 6476489  419964 -31.84438 140.15410  162.84  0.0000 979418.69   -1.86  -16.87  -18.23  -20.07
    7650    2025 6476471  420239 -31.84456 140.15701  163.31  0.0000 979418.25   -2.17  -17.23  -18.59  -20.44
    7650    2050 6476526  420494 -31.84408 140.15971  164.22  0.0000 979417.96   -2.14  -17.27  -18.65  -20.51
    7650    2075 6476499  420752 -31.84435 140.16243  165.21  0.0000 979418.11   -1.71  -16.93  -18.32  -20.19
    7650    2100 6476502  421001 -31.84434 140.16506  166.20  0.0000 979418.39   -1.11  -16.43  -17.82  -19.71
    7650    2125 6476514  421233 -31.84425 140.16751  167.02  0.0000 979417.84   -1.41  -16.81  -18.21  -20.10
    7650    2150 6476521  421491 -31.84420 140.17024  167.79  0.0000 979417.75   -1.26  -16.72  -18.13  -20.03
    7650    2175 6476501  421752 -31.84440 140.17300  168.37  0.0000 979417.71   -1.14  -16.66  -18.07  -19.97
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Line 7700
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
7700	1325	6476999	413279	-31.83930	140.08350	155.85	0.0000	979417.28	-5.01	-19.38	-20.68	-22.45
7700	1350	6477004	413507	-31.83927	140.08591	156.03	0.0000	979417.11	-5.12	-19.50	-20.81	-22.58
7700	1375	6476999	413748	-31.83933	140.08845	156.15	0.0000	979417.36	-4.84	-19.24	-20.54	-22.31
7700	1400	6477017	413996	-31.83918	140.09108	155.85	0.0000	979417.84	-4.44	-18.81	-20.11	-21.88
7700	1425	6477022	414240	-31.83916	140.09366	156.26	0.0000	979417.65	-4.51	-18.91	-20.22	-21.99
7700	1450	6477019	414549	-31.83921	140.09692	155.87	0.0000	979417.45	-4.83	-19.20	-20.50	-22.27
7700	1475	6477027	414746	-31.83915	140.09901	156.33	0.0000	979417.43	-4.70	-19.11	-20.42	-22.19
7700	1500	6476976	414959	-31.83963	140.10125	155.38	0.0000	979417.89	-4.58	-18.90	-20.20	-21.96
7700	1525	6476981	415245	-31.83960	140.10427	155.51	0.0000	979418.41	-4.01	-18.34	-19.65	-21.41
7700	1550	6476990	415481	-31.83954	140.10677	155.59	0.0000	979418.73	-3.66	-18.00	-19.31	-21.07
7700	1575	6477026	415735	-31.83923	140.10946	155.93	0.0000	979419.04	-3.23	-17.60	-18.90	-20.67
7700	1600	6476999	415991	-31.83950	140.11215	156.04	0.0000	979418.98	-3.27	-17.66	-18.96	-20.73
7700	1625	6476994	416241	-31.83956	140.11480	156.64	0.0000	979418.78	-3.29	-17.73	-19.04	-20.82
7700	1650	6477008	416470	-31.83945	140.11722	157.49	0.0000	979418.57	-3.23	-17.75	-19.07	-20.85
7700	1675	6476973	416743	-31.83978	140.12010	157.42	0.0000	979418.83	-3.02	-17.53	-18.85	-20.63
7700	1700	6477004	416970	-31.83952	140.12250	158.03	0.0000	979418.88	-2.76	-17.33	-18.65	-20.44
7700	1725	6477014	417199	-31.83945	140.12493	157.50	0.0000	979419.16	-2.63	-17.15	-18.47	-20.25
7700	1750	6477027	417511	-31.83935	140.12822	158.29	0.0000	979419.20	-2.35	-16.94	-18.26	-20.05
7700	1751	6477013	417535	-31.83948	140.12847	158.25	0.0000	979419.31	-2.26	-16.85	-18.17	-19.96
7700	1775	6477015	417752	-31.83948	140.13077	158.95	0.0000	979419.41	-1.95	-16.60	-17.93	-19.73
7700	1800	6477014	418005	-31.83951	140.13344	158.77	0.0000	979420.00	-1.41	-16.05	-17.38	-19.17
7700	1825	6477022	418220	-31.83945	140.13571	159.43	0.0000	979419.77	-1.43	-16.12	-17.46	-19.26
7700	1850	6476998	418500	-31.83969	140.13867	159.02	0.0000	979419.02	-2.32	-16.98	-18.31	-20.11
7700	1875	6477003	418745	-31.83966	140.14126	159.53	0.0000	979418.62	-2.57	-17.28	-18.61	-20.42
7700	1900	6476997	419017	-31.83973	140.14413	159.84	0.0000	979418.53	-2.57	-17.30	-18.64	-20.45
7700	1925	6476999	419237	-31.83973	140.14646	160.05	0.0000	979418.50	-2.54	-17.29	-18.63	-20.44
7700	1950	6477000	419520	-31.83974	140.14945	160.25	0.0000	979418.54	-2.44	-17.21	-18.55	-20.36
7700	1975	6477005	419736	-31.83972	140.15174	160.44	0.0000	979418.72	-2.19	-16.98	-18.32	-20.14
7700	2000	6477005	419994	-31.83973	140.15446	161.15	0.0000	979418.85	-1.84	-16.69	-18.04	-19.87
7700	2025	6476989	420247	-31.83989	140.15713	162.05	0.0000	979418.68	-1.75	-16.69	-18.04	-19.88
7700	2050	6476990	420505	-31.83990	140.15985	163.12	0.0000	979418.03	-2.07	-17.11	-18.47	-20.32
7700	2075	6476994	420713	-31.83988	140.16206	163.64	0.0000	979417.71	-2.23	-17.31	-18.68	-20.53
7700	2100	6477003	420999	-31.83982	140.16508	164.45	0.0000	979418.29	-1.39	-16.55	-17.93	-19.79
7700	2125	6476988	421216	-31.83997	140.16737	165.02	0.0000	979418.95	-0.57	-15.78	-17.16	-19.03
7700	2150	6476987	421484	-31.84000	140.17020	165.95	0.0000	979418.61	-0.62	-15.92	-17.31	-19.18
7700	2175	6477006	421723	-31.83984	140.17273	166.34	0.0000	979417.36	-1.75	-17.08	-18.47	-20.35

Line 7750
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North metres	East metres	Latitude dec deg	Longitude dec deg	Elev metres	Ter Cor mgals	G obs. mgals	Free Air mgals	Bouguer Gravity (mgals) 2.20g/cc	2.40g/cc	2.67g/cc
7750	1325	6477471	413290	-31.83503	140.08366	154.97	0.0000	979416.93	-5.29	-19.57	-20.87	-22.63
7750	1350	6477521	413499	-31.83460	140.08587	155.00	0.0000	979416.39	-5.79	-20.07	-21.37	-23.13
7750	1375	6477517	413740	-31.83466	140.08842	155.10	0.0000	979417.56	-4.59	-18.89	-20.19	-21.94
7750	1400	6477529	413973	-31.83457	140.09088	154.94	0.0000	979417.49	-4.70	-18.98	-20.28	-22.03
7750	1425	6477497	414242	-31.83488	140.09372	154.87	0.0000	979417.99	-4.25	-18.53	-19.82	-21.58
7750	1450	6477500	414508	-31.83487	140.09653	155.20	0.0000	979417.48	-4.66	-18.97	-20.27	-22.02
7750	1475	6477490	414757	-31.83498	140.09916	155.87	0.0000	979417.39	-4.55	-18.92	-20.23	-21.99
7750	1500	6477483	415016	-31.83506	140.10190	155.07	0.0000	979417.77	-4.42	-18.71	-20.01	-21.77
7750	1525	6477507	415239	-31.83486	140.10426	155.00	0.0000	979418.23	-3.97	-18.26	-19.56	-21.31
7750	1550	6477499	415523	-31.83495	140.10726	155.09	0.0000	979418.66	-3.52	-17.81	-19.11	-20.87
7750	1575	6477514	415764	-31.83483	140.10980	155.41	0.0000	979418.97	-3.10	-17.42	-18.73	-20.48
7750	1600	6477505	416027	-31.83494	140.11258	155.72	0.0000	979419.02	-2.96	-17.31	-18.62	-20.38
7750	1625	6477510	416279	-31.83491	140.11525	156.21	0.0000	979419.26	-2.56	-16.96	-18.27	-20.04
7750	1650	6477501	416495	-31.83500	140.11753	156.59	0.0000	979419.20	-2.52	-16.95	-18.26	-20.04
7750	1675	6477505	416743	-31.83499	140.12014	157.24	0.0000	979419.02	-2.50	-16.99	-18.31	-20.09
7750	1700	6477500	416998	-31.83505	140.12284	157.05	0.0000	979418.86	-2.72	-17.20	-18.51	-20.29
7750	1725	6477524	417232	-31.83485	140.12532	157.61	0.0000	979419.02	-2.37	-16.90	-18.22	-20.00
7750	1750	6477518	417487	-31.83492	140.12801	156.81	0.0000	979419.46	-2.18	-16.63	-17.95	-19.72
7750	1775	6477510	417755	-31.83502	140.13084	157.18	0.0000	979419.38	-2.16	-16.65	-17.96	-19.74
7750	1800	6477510	418014	-31.83503	140.13357	157.86	0.0000	979419.98	-1.35	-15.90	-17.22	-19.00
7750	1825	6477513	418259	-31.83503	140.13617	157.66	0.0000	979421.23	-0.16	-14.69	-16.02	-17.80
7750	1850	6477517	418497	-31.83501	140.13869	158.38	0.0000	979420.28	-0.88	-15.48	-16.81	-18.60
7750	1875	6477524	418739	-31.83496	140.14124	159.04	0.0000	979419.21	-1.75	-16.41	-17.74	-19.54
7750	1900	6477511	418999	-31.83509	140.14398	158.38	0.0000	979419.01	-2.16	-16.76	-18.09	-19.88
7750	1925	6477521	419237	-31.83503	140.14650	158.96	0.0000	979418.84	-2.15	-16.80	-18.13	-19.93
7750	1950	6477500	419478	-31.83523	140.14905	158.98	0.0000	979418.79	-2.20	-16.86	-18.19	-19.99
7750	1975	6477524	419749	-31.83503	140.15191	159.39	0.0000	979418.15	-2.70	-17.39	-18.73	-20.53
7750	2000	6477523	419997	-31.83506	140.15453	160.09	0.0000	979418.27	-2.37	-17.13	-18.47	-20.28
7750	2025	6477488	420236	-31.83539	140.15705	160.80	0.0000	979418.26	-2.19	-17.01	-18.35	-20.17
7750	2050	6477498	420497	-31.83532	140.15982	161.85	0.0000	979418.30	-1.82	-16.74	-18.09	-19.93
7750	2075	6477482	420731	-31.83548	140.16229	163.31	0.0000	979417.74	-1.94	-16.99	-18.36	-20.21
7750	2100	6477530	420956	-31.83506	140.16467	164.15	0.0000	979417.68	-1.71	-16.84	-18.22	-20.08
7750	2125	6477469	421207	-31.83563	140.16732	164.27	0.0000	979418.15	-1.25	-16.39	-17.77	-19.63
7750	2150	6477512	421500	-31.83526	140.17041	164.87	0.0000	979418.91	-0.28	-15.48	-16.86	-18.72
7750	2175	6477497	421728	-31.83541	140.17283	164.84	0.0000	979418.79	-0.42	-15.61	-16.99	-18.86

Line 7800
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)

\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
	7800	1325	6477983	413269	-31.83042	140.08348	154.34	0.0000	979417.41	-4.63	-18.85	-20.15	-21.89
	7800	1350	6478017	413494	-31.83012	140.08586	154.41	0.0000	979417.44	-4.56	-18.79	-20.08	-21.83
	7800	1375	6478024	413715	-31.83008	140.08820	155.01	0.0000	979417.23	-4.58	-18.87	-20.16	-21.92
	7800	1400	6477962	413995	-31.83066	140.09115	154.14	0.0000	979416.52	-5.60	-19.81	-21.10	-22.84
	7800	1425	6477973	414246	-31.83058	140.09380	153.97	0.0000	979417.35	-4.81	-19.01	-20.30	-22.04
	7800	1450	6477996	414487	-31.83039	140.09635	154.79	0.0000	979417.38	-4.52	-18.78	-20.08	-21.83
	7800	1475	6477994	414731	-31.83043	140.09893	154.50	0.0000	979417.43	-4.56	-18.80	-20.10	-21.84
	7800	1500	6477995	415024	-31.83044	140.10202	153.85	0.0000	979417.62	-4.57	-18.75	-20.04	-21.78
	7800	1525	6478015	415242	-31.83027	140.10433	154.09	0.0000	979417.84	-4.27	-18.47	-19.76	-21.50
	7800	1550	6478011	415476	-31.83033	140.10681	155.02	0.0000	979418.01	-3.82	-18.11	-19.40	-21.16
	7800	1575	6477994	415745	-31.83050	140.10964	154.91	0.0000	979418.60	-3.27	-17.55	-18.85	-20.60
	7800	1600	6478015	415990	-31.83034	140.11224	155.20	0.0000	979418.87	-2.90	-17.20	-18.50	-20.26
	7800	1625	6477971	416255	-31.83075	140.11503	155.33	0.0000	979419.10	-2.66	-16.98	-18.28	-20.04
	7800	1650	6477975	416464	-31.83073	140.11724	155.52	0.0000	979419.48	-2.22	-16.56	-17.86	-19.62
	7800	1675	6477991	416743	-31.83061	140.12019	155.62	0.0000	979419.55	-2.11	-16.45	-17.76	-19.52
	7800	1700	6477992	416967	-31.83061	140.12256	156.24	0.0000	979419.37	-2.10	-16.51	-17.81	-19.58
	7800	1725	6478038	417212	-31.83022	140.12515	155.71	0.0000	979419.74	-1.86	-16.22	-17.52	-19.28
	7800	1750	6478004	417486	-31.83054	140.12804	156.63	0.0000	979419.69	-1.65	-16.09	-17.40	-19.17
	7800	1775	6477995	417757	-31.83064	140.13090	156.76	0.0000	979419.86	-1.46	-15.91	-17.22	-18.99
	7800	1800	6477988	418010	-31.83073	140.13357	156.48	0.0000	979420.85	-0.55	-14.98	-16.29	-18.06
	7800	1825	6478006	418241	-31.83058	140.13602	157.00	0.0000	979420.01	-1.23	-15.70	-17.02	-18.79
	7800	1850	6477985	418554	-31.83078	140.13932	157.35	0.0000	979419.41	-1.73	-16.23	-17.55	-19.33
	7800	1875	6477998	418741	-31.83068	140.14131	157.49	0.0000	979419.25	-1.84	-16.35	-17.67	-19.45
	7800	1900	6477987	419017	-31.83081	140.14421	157.47	0.0000	979419.12	-1.99	-16.50	-17.82	-19.60
	7800	1925	6477986	419259	-31.83083	140.14677	158.39	0.0000	979418.86	-1.96	-16.56	-17.89	-19.68
	7800	1950	6478003	419471	-31.83069	140.14902	158.21	0.0000	979418.86	-2.00	-16.59	-17.91	-19.70
	7800	1975	6477997	419741	-31.83076	140.15187	158.20	0.0000	979418.18	-2.70	-17.28	-18.61	-20.40
	7800	2000	6478023	420013	-31.83055	140.15474	158.76	0.0000	979418.06	-2.63	-17.26	-18.59	-20.39
	7800	2025	6477982	420257	-31.83093	140.15732	159.86	0.0000	979417.94	-2.44	-17.17	-18.51	-20.32
	7800	2050	6478013	420503	-31.83068	140.15992	160.65	0.0000	979417.65	-2.47	-17.27	-18.62	-20.44
	7800	2075	6478000	420755	-31.83081	140.16258	162.51	0.0000	979417.94	-1.62	-16.59	-17.96	-19.79
	7800	2100	6478007	421013	-31.83076	140.16531	163.89	0.0000	979417.37	-1.76	-16.86	-18.23	-20.09

Line 7850

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
	7850	1325	6478478	413235	-31.82595	140.08317	153.63	0.0000	979417.88	-4.02	-18.18	-19.47	-21.21
	7850	1350	6478484	413475	-31.82591	140.08570	153.46	0.0000	979417.94	-4.01	-18.15	-19.44	-21.18
	7850	1375	6478490	413720	-31.82588	140.08829	153.34	0.0000	979417.48	-4.50	-18.63	-19.92	-21.65
	7850	1400	6478509	413980	-31.82573	140.09104	153.77	0.0000	979417.50	-4.34	-18.51	-19.80	-21.54
	7850	1425	6478517	414267	-31.82568	140.09408	153.79	0.0000	979417.32	-4.50	-18.68	-19.97	-21.71
	7850	1450	6478505	414464	-31.82579	140.09616	153.12	0.0000	979417.38	-4.67	-18.78	-20.06	-21.80
	7850	1475	6478508	414726	-31.82579	140.09893	153.12	0.0000	979417.57	-4.48	-18.59	-19.87	-21.61
	7850	1500	6478472	414952	-31.82614	140.10131	153.22	0.0000	979417.63	-4.41	-18.54	-19.82	-21.55
	7850	1525	6478519	415216	-31.82573	140.10410	153.80	0.0000	979417.70	-4.13	-18.30	-19.59	-21.33
	7850	1550	6478487	415505	-31.82604	140.10716	154.59	0.0000	979417.75	-3.86	-18.11	-19.40	-21.15
	7850	1575	6478531	415748	-31.82566	140.10972	154.81	0.0000	979418.00	-3.52	-17.79	-19.08	-20.83
	7850	1600	6478478	415995	-31.82616	140.11232	154.87	0.0000	979418.10	-3.43	-17.71	-19.00	-20.76
	7850	1625	6478473	416242	-31.82622	140.11493	154.79	0.0000	979418.66	-2.90	-17.17	-18.47	-20.22
	7850	1650	6478496	416482	-31.82603	140.11748	155.32	0.0000	979418.87	-2.51	-16.83	-18.13	-19.89
	7850	1675	6478496	416751	-31.82605	140.12031	155.07	0.0000	979419.12	-2.35	-16.64	-17.94	-19.69
	7850	1700	6478476	416991	-31.82625	140.12285	154.91	0.0000	979419.54	-1.99	-16.27	-17.56	-19.32
	7850	1725	6478448	417237	-31.82652	140.12545	155.13	0.0000	979419.58	-1.90	-16.20	-17.50	-19.25
	7850	1750	6478489	417509	-31.82617	140.12832	155.33	0.0000	979420.15	-1.24	-15.56	-16.86	-18.62
	7850	1775	6478507	417741	-31.82602	140.13078	155.46	0.0000	979419.88	-1.45	-15.78	-17.09	-18.85
	7850	1800	6478515	418013	-31.82597	140.13365	155.39	0.0000	979419.90	-1.45	-15.78	-17.08	-18.84
	7850	1825	6478508	418239	-31.82605	140.13604	155.41	0.0000	979419.80	-1.56	-15.89	-17.19	-18.95
	7850	1850	6478532	418515	-31.82585	140.13896	157.25	0.0000	979419.19	-1.58	-16.08	-17.40	-19.17
	7850	1875	6478484	418750	-31.82630	140.14144	156.30	0.0000	979419.32	-1.79	-16.19	-17.50	-19.27
	7850	1900	6478496	418975	-31.82621	140.14382	157.21	0.0000	979419.10	-1.71	-16.20	-17.52	-19.30
	7850	1925	6478521	419240	-31.82600	140.14662	157.37	0.0000	979419.06	-1.69	-16.20	-17.51	-19.29
	7850	1950	6478512	419529	-31.82611	140.14967	157.08	0.0000	979418.83	-2.01	-16.49	-17.81	-19.58
	7850	1975	6478538	419747	-31.82588	140.15197	157.07	0.0000	979418.60	-2.23	-16.71	-18.03	-19.80
	7850	2000	6478524	420013	-31.82603	140.15479	157.24	0.0000	979417.95	-2.84	-17.33	-18.65	-20.43
	7850	2025	6478461	420247	-31.82662	140.15726	158.59	0.0000	979417.59	-2.83	-17.45	-18.78	-20.57
	7850	2050	6478485	420493	-31.82642	140.15985	159.51	0.0000	979417.22	-2.91	-17.61	-18.94	-20.75
	7850	2075	6478522	420755	-31.82610	140.16262	160.87	0.0000	979417.66	-2.02	-16.85	-18.20	-20.02
	7850	2100	6478499	421003	-31.82633	140.16524	162.94	0.0000	979417.23	-1.82	-16.84	-18.21	-20.05

Line 7900

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
	7900	1325	6479005	413222	-31.82119	140.08308	153.84	0.0000	979417.18	-4.27	-18.45	-19.74	-21.48
	7900	1350	6478985	413473	-31.82140	140.08572	151.90	0.0000	979417.81	-4.25	-18.25	-19.53	-21.24
	7900	1375	6478985	413727	-31.82141	140.08841	152.91	0.0000	979417.36	-4.39	-18.48	-19.77	-21.49
	7900	1400	6478991	414005	-31.82138	140.09135	152.66	0.0000	979417.49	-4.34	-18.41	-19.69	-21.42
	7900	1425	6479007	414225	-31.82125	140.09367	152.19	0.0000	979417.19	-4.78	-18.80	-20.08	-21.80
	7900	1450	6478992	414504	-31.82141	140.09662	152.28	0.0000	979417.35	-4.60	-18.63	-19.91	-21.63
	7900	1475	6479018	414796	-31.82120	140.09971	152.18	0.0000	979417.07	-4.89	-18.92	-20.19	-21.92
	7900	1500	6479003	415012	-31.82135	140.10199	153.13	0.0000	979417.19	-4.49	-18.61	-19.89	-21.62
	7900	1525	6479019	415296	-31.82122	140.10499	153.90	0.0000	979417.62	-3.81	-17.99	-19.28	-21.02

7900	1550	6479023	415509	-31.82120	140.10725	153.74	0.0000	979417.72	-3.76	-17.93	-19.22	-20.96
7900	1575	6478995	415755	-31.82148	140.10983	154.47	0.0000	979417.62	-3.66	-17.90	-19.19	-20.94
7900	1600	6479018	416006	-31.82129	140.11249	154.46	0.0000	979417.82	-3.44	-17.68	-18.97	-20.72
7900	1625	6478919	416253	-31.82220	140.11509	154.18	0.0000	979418.07	-3.36	-17.57	-18.86	-20.60
7900	1650	6478942	416474	-31.82201	140.11743	154.17	0.0000	979418.42	-2.99	-17.20	-18.49	-20.24
7900	1675	6478977	416749	-31.82171	140.12034	153.81	0.0000	979418.77	-2.72	-16.90	-18.19	-19.93
7900	1700	6479010	417006	-31.82143	140.12306	154.25	0.0000	979418.93	-2.42	-16.63	-17.93	-19.67
7900	1725	6479017	417242	-31.82139	140.12555	154.47	0.0000	979419.31	-1.96	-16.20	-17.49	-19.24
7900	1750	6479008	417509	-31.82148	140.12837	154.32	0.0000	979419.63	-1.69	-15.91	-17.21	-18.95
7900	1775	6479006	417741	-31.82152	140.13082	154.58	0.0000	979419.50	-1.75	-15.99	-17.29	-19.04
7900	1800	6479010	417982	-31.82150	140.13337	154.76	0.0000	979419.66	-1.53	-15.79	-17.09	-18.84
7900	1825	6478985	418234	-31.82175	140.13603	154.78	0.0000	979419.67	-1.53	-15.80	-17.09	-18.85
7900	1850	6478993	418477	-31.82169	140.13860	155.37	0.0000	979419.48	-1.53	-15.85	-17.16	-18.91
7900	1875	6478972	418745	-31.82190	140.14143	155.34	0.0000	979419.34	-1.71	-16.02	-17.33	-19.08
7900	1900	6479032	418995	-31.82137	140.14407	155.54	0.0000	979419.30	-1.64	-15.98	-17.28	-19.04
7900	1925	6479014	419222	-31.82155	140.14647	156.06	0.0000	979419.13	-1.66	-16.05	-17.35	-19.12
7900	1950	6479006	419470	-31.82164	140.14909	155.79	0.0000	979419.06	-1.82	-16.18	-17.49	-19.25
7900	1975	6478991	419756	-31.82180	140.15210	155.94	0.0000	979418.66	-2.19	-16.56	-17.87	-19.63
7900	2000	6479012	419980	-31.82162	140.15448	156.39	0.0000	979418.20	-2.50	-16.91	-18.22	-19.99
7900	2025	6478975	420269	-31.82198	140.15752	157.31	0.0000	979417.09	-3.35	-17.85	-19.17	-20.95
7900	2050	6478993	420478	-31.82184	140.15974	157.30	0.0000	979416.65	-3.78	-18.28	-19.60	-21.38
7900	2075	6478988	420716	-31.82190	140.16225	158.38	0.0000	979417.12	-2.99	-17.59	-18.91	-20.71
7900	2100	6479021	421000	-31.82161	140.16525	159.70	0.0000	979417.47	-2.21	-16.93	-18.26	-20.07

Line 7950

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
7950	1325	6479476	413281	-31.81695	140.08374	151.13	0.0000	979417.81	-4.14	-18.07	-19.33	-21.04
7950	1350	6479532	413556	-31.81647	140.08666	151.69	0.0000	979417.20	-4.53	-18.51	-19.78	-21.50
7950	1375	6479515	413746	-31.81664	140.08865	150.96	0.0000	979417.27	-4.70	-18.62	-19.88	-21.59
7950	1400	6479505	414003	-31.81674	140.09137	151.63	0.0000	979417.10	-4.67	-18.65	-19.92	-21.64
7950	1425	6479501	414228	-31.81680	140.09374	151.16	0.0000	979417.28	-4.64	-18.57	-19.84	-21.55
7950	1450	6479493	414520	-31.81689	140.09683	151.40	0.0000	979417.31	-4.55	-18.50	-19.77	-21.48
7950	1475	6479505	414761	-31.81680	140.09938	151.65	0.0000	979417.12	-4.65	-18.63	-19.90	-21.61
7950	1500	6479513	414986	-31.81674	140.10176	152.21	0.0000	979416.96	-4.63	-18.66	-19.94	-21.66
7950	1525	6479513	415222	-31.81676	140.10425	152.37	0.0000	979417.20	-4.35	-18.39	-19.67	-21.39
7950	1550	6479484	415472	-31.81705	140.10689	152.27	0.0000	979416.84	-4.76	-18.79	-20.07	-21.79
7950	1575	6479470	415735	-31.81719	140.10967	152.92	0.0000	979417.33	-4.08	-18.17	-19.45	-21.18
7950	1600	6479503	415969	-31.81691	140.11214	152.89	0.0000	979417.53	-3.86	-17.96	-19.24	-20.97
7950	1625	6479533	416231	-31.81665	140.11492	153.18	0.0000	979417.53	-3.76	-17.88	-19.16	-20.89
7950	1650	6479468	416467	-31.81726	140.11740	152.80	0.0000	979417.92	-3.53	-17.62	-18.90	-20.63
7950	1675	6479515	416733	-31.81685	140.12022	152.53	0.0000	979418.14	-3.36	-17.42	-18.70	-20.43
7950	1700	6479497	416961	-31.81703	140.12262	153.23	0.0000	979418.54	-2.76	-16.89	-18.17	-19.91
7950	1725	6479536	417260	-31.81670	140.12578	153.54	0.0000	979419.07	-2.11	-16.26	-17.54	-19.28
7950	1750	6479513	417510	-31.81693	140.12842	153.52	0.0000	979419.13	-2.07	-16.22	-17.51	-19.25
7950	1775	6479520	417763	-31.81689	140.13109	153.74	0.0000	979419.10	-2.04	-16.21	-17.49	-19.23
7950	1800	6479509	417991	-31.81700	140.13351	154.39	0.0000	979419.06	-1.88	-16.11	-17.40	-19.15
7950	1825	6479492	418258	-31.81718	140.13633	154.08	0.0000	979419.19	-1.86	-16.06	-17.36	-19.10
7950	1850	6479491	418517	-31.81720	140.13906	154.31	0.0000	979419.21	-1.78	-16.00	-17.29	-19.04
7950	1875	6479467	418764	-31.81743	140.14166	154.90	0.0000	979418.99	-1.82	-16.10	-17.40	-19.15
7950	1900	6479492	419002	-31.81722	140.14418	154.39	0.0000	979419.02	-1.93	-16.16	-17.46	-19.21
7950	1925	6479505	419266	-31.81713	140.14698	154.34	0.0000	979419.05	-1.91	-16.14	-17.43	-19.18
7950	1950	6479506	419499	-31.81714	140.14944	154.12	0.0000	979418.90	-2.14	-16.34	-17.63	-19.38
7950	1975	6479530	419752	-31.81694	140.15211	154.48	0.0000	979418.63	-2.28	-16.52	-17.81	-19.56
7950	2000	6479545	419988	-31.81682	140.15460	155.19	0.0000	979418.32	-2.36	-16.66	-17.96	-19.72
7950	2025	6479528	420251	-31.81699	140.15739	155.61	0.0000	979417.90	-2.66	-17.00	-18.31	-20.07
7950	2050	6479493	420525	-31.81732	140.16027	156.19	0.0000	979418.12	-2.29	-16.68	-17.99	-19.76
7950	2075	6479522	420750	-31.81708	140.16265	157.19	0.0000	979418.07	-2.01	-16.50	-17.82	-19.60
7950	2100	6479531	420985	-31.81701	140.16514	157.55	0.0000	979417.76	-2.21	-16.73	-18.05	-19.83

Line 8000

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8000	1325	6479992	413231	-31.81229	140.08326	151.19	0.0000	979417.09	-4.45	-18.39	-19.66	-21.37
8000	1350	6480002	413475	-31.81222	140.08584	150.19	0.0000	979417.21	-4.64	-18.49	-19.75	-21.44
8000	1375	6479983	413744	-31.81241	140.08868	150.38	0.0000	979416.81	-4.99	-18.85	-20.11	-21.82
8000	1400	6480003	414006	-31.81225	140.09145	150.68	0.0000	979416.79	-4.91	-18.80	-20.06	-21.77
8000	1425	6479972	414267	-31.81255	140.09420	150.81	0.0000	979416.80	-4.89	-18.79	-20.05	-21.76
8000	1450	6479991	414518	-31.81240	140.09686	150.91	0.0000	979417.12	-4.52	-18.43	-19.70	-21.41
8000	1475	6480022	414770	-31.81214	140.09952	150.87	0.0000	979417.09	-4.54	-18.45	-19.71	-21.42
8000	1500	6479971	415009	-31.81262	140.10204	151.22	0.0000	979416.75	-4.81	-18.75	-20.02	-21.73
8000	1525	6479996	415277	-31.81241	140.10488	151.14	0.0000	979416.45	-5.12	-19.05	-20.32	-22.03
8000	1550	6479995	415553	-31.81244	140.10779	152.03	0.0000	979416.17	-5.13	-19.14	-20.42	-22.14
8000	1575	6480001	415781	-31.81240	140.11020	151.44	0.0000	979416.28	-5.20	-19.16	-20.43	-22.14
8000	1600	6480000	416016	-31.81243	140.11268	151.65	0.0000	979417.15	-4.26	-18.24	-19.51	-21.23
8000	1625	6479996	416261	-31.81248	140.11526	152.19	0.0000	979417.33	-3.92	-17.95	-19.22	-20.94
8000	1650	6480006	416524	-31.81241	140.11805	151.75	0.0000	979417.43	-3.95	-17.94	-19.21	-20.93
8000	1675	6480014	416771	-31.81235	140.12065	151.98	0.0000	979417.62	-3.69	-17.70	-18.97	-20.69
8000	1700	6479988	417001	-31.81261	140.12308	152.28	0.0000	979417.94	-3.30	-17.33	-18.61	-20.33
8000	1725	6479986	417256	-31.81265	140.12578	152.40	0.0000	979418.38	-2.82	-16.87	-18.15	-19.87
8000	1750	6480003	417496	-31.81250	140.12831	152.63	0.0000	979418.48	-2.64	-16.71	-17.99	-19.71
8000	1775	6479992	417742	-31.81262	140.13091	152.73	0.0000	979418.88	-2.22	-16.29	-17.57	-19.30
8000	1800	6479996	417985	-31.81260	140.13348	152.86	0.0000	979419.03	-2.02	-16.11	-17.39	-19.12

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    8000    1825 6480030  418231 -31.81232 140.13608  152.98  0.0000 979419.18   -1.81  -15.91  -17.20  -18.93
    8000    1850 6479988  418505 -31.81272 140.13898  153.37  0.0000 979418.87   -2.04  -16.18  -17.46  -19.20
    8000    1875 6479994  418733 -31.81268 140.14138  153.50  0.0000 979418.52   -2.35  -16.50  -17.78  -19.52
    8000    1900 6480005  418983 -31.81260 140.14403  153.64  0.0000 979418.40   -2.41  -16.57  -17.86  -19.60
    8000    1925 6480026  419259 -31.81243 140.14694  153.21  0.0000 979418.54   -2.39  -16.51  -17.80  -19.53
    8000    1950 6479987  419499 -31.81280 140.14948  152.91  0.0000 979418.69   -2.36  -16.46  -17.74  -19.47
    8000    1975 6479991  419764 -31.81278 140.15228  153.60  0.0000 979418.43   -2.42  -16.57  -17.86  -19.60
    8000    2000 6479993  420010 -31.81278 140.15487  153.95  0.0000 979418.59   -2.15  -16.34  -17.63  -19.37
    8000    2025 6479967  420249 -31.81303 140.15740  154.85  0.0000 979418.28   -2.20  -16.47  -17.77  -19.52
    8000    2050 6479984  420478 -31.81289 140.15982  155.14  0.0000 979418.33   -2.04  -16.34  -17.64  -19.40
    8000    2075 6479965  420732 -31.81308 140.16250  156.10  0.0000 979417.88   -2.22  -16.60  -17.91  -19.68
    8000    2100 6479996  420992 -31.81282 140.16525  156.47  0.0000 979417.47   -2.49  -16.92  -18.23  -20.00
Line 8050
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================================
    8050    1325 6480518  413255 -31.80755 140.08356  149.22  0.0000 979416.94   -4.83  -18.59  -19.84  -21.53
    8050    1350 6480526  413516 -31.80749 140.08632  149.32  0.0000 979416.79   -4.94  -18.71  -19.96  -21.65
    8050    1375 6480484  413729 -31.80789 140.08857  150.05  0.0000 979416.72   -4.83  -18.66  -19.91  -21.61
    8050    1400 6480502  413985 -31.80775 140.09126  150.06  0.0000 979416.70   -4.82  -18.66  -19.91  -21.61
    8050    1425 6480506  414263 -31.80773 140.09421  150.19  0.0000 979416.63   -4.85  -18.70  -19.95  -21.65
    8050    1450 6480494  414505 -31.80786 140.09676  150.23  0.0000 979416.71   -4.78  -18.63  -19.88  -21.58
    8050    1475 6480533  414750 -31.80753 140.09935  149.98  0.0000 979416.98   -4.56  -18.38  -19.64  -21.33
    8050    1500 6480486  414998 -31.80797 140.10197  149.98  0.0000 979417.16   -4.41  -18.23  -19.49  -21.18
    8050    1525 6480475  415239 -31.80809 140.10451  149.94  0.0000 979417.06   -4.53  -18.36  -19.61  -21.31
    8050    1550 6480492  415510 -31.80795 140.10738  150.32  0.0000 979416.89   -4.57  -18.42  -19.68  -21.38
    8050    1575 6480516  415735 -31.80776 140.10976  150.83  0.0000 979416.76   -4.53  -18.43  -19.69  -21.40
    8050    1600 6480504  415994 -31.80788 140.11249  150.75  0.0000 979416.88   -4.45  -18.34  -19.61  -21.31
    8050    1625 6480500  416242 -31.80793 140.11512  150.75  0.0000 979416.98   -4.35  -18.24  -19.51  -21.21
    8050    1650 6480499  416487 -31.80796 140.11770  150.95  0.0000 979417.33   -3.94  -17.86  -19.12  -20.83
    8050    1675 6480500  416725 -31.80796 140.12021  151.24  0.0000 979417.56   -3.62  -17.56  -18.83  -20.54
    8050    1700 6480494  416961 -31.80804 140.12271  151.32  0.0000 979417.67   -3.49  -17.44  -18.71  -20.42
    8050    1725 6480491  417243 -31.80809 140.12569  152.27  0.0000 979417.70   -3.17  -17.21  -18.48  -20.21
    8050    1750 6480483  417509 -31.80818 140.12850  151.62  0.0000 979418.17   -2.92  -16.89  -18.16  -19.88
    8050    1775 6480477  417748 -31.80825 140.13102  152.14  0.0000 979418.28   -2.64  -16.66  -17.94  -19.66
    8050    1800 6480500  417972 -31.80806 140.13339  152.01  0.0000 979418.53   -2.42  -16.43  -17.71  -19.43
    8050    1825 6480521  418273 -31.80789 140.13657  152.27  0.0000 979418.69   -2.17  -16.20  -17.48  -19.20
    8050    1850 6480485  418509 -31.80823 140.13906  152.52  0.0000 979418.70   -2.11  -16.17  -17.44  -19.17
    8050    1875 6480500  418757 -31.80811 140.14168  152.13  0.0000 979418.57   -2.35  -16.37  -17.64  -19.36
    8050    1900 6480496  418994 -31.80817 140.14418  151.91  0.0000 979418.92   -2.07  -16.07  -17.34  -19.06
    8050    1925 6480488  419253 -31.80825 140.14692  152.32  0.0000 979419.12   -1.75  -15.79  -17.06  -18.79
    8050    1950 6480508  419497 -31.80809 140.14950  152.21  0.0000 979419.07   -1.82  -15.85  -17.13  -18.85
    8050    1975 6480505  419748 -31.80814 140.15214  152.35  0.0000 979419.33   -1.52  -15.56  -16.84  -18.56
    8050    2000 6480522  419989 -31.80801 140.15469  152.92  0.0000 979419.11   -1.55  -15.65  -16.93  -18.66
    8050    2025 6480462  420269 -31.80857 140.15765  153.86  0.0000 979418.51   -1.92  -16.10  -17.39  -19.13
    8050    2050 6480500  420505 -31.80824 140.16014  154.67  0.0000 979418.06   -2.08  -16.34  -17.64  -19.39
    8050    2075 6480514  420729 -31.80813 140.16252  155.01  0.0000 979417.59   -2.44  -16.72  -18.02  -19.78
    8050    2100 6480519  421006 -31.80810 140.16544  155.64  0.0000 979417.57   -2.26  -16.61  -17.91  -19.67
Line 8100
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================================
    8100    1325 6481016  413257 -31.80305 140.08363  147.70  0.0000 979416.47   -5.40  -19.01  -20.25  -21.92
    8100    1350 6480984  413483 -31.80336 140.08601  148.70  0.0000 979416.36   -5.24  -18.94  -20.19  -21.87
    8100    1375 6481005  413745 -31.80319 140.08877  148.97  0.0000 979416.58   -4.92  -18.65  -19.90  -21.58
    8100    1400 6481007  413991 -31.80319 140.09137  149.36  0.0000 979416.59   -4.78  -18.55  -19.80  -21.49
    8100    1425 6481042  414238 -31.80289 140.09399  149.07  0.0000 979416.54   -4.90  -18.64  -19.89  -21.57
    8100    1450 6481007  414507 -31.80323 140.09683  149.36  0.0000 979416.70   -4.68  -18.45  -19.70  -21.39
    8100    1475 6481019  414773 -31.80314 140.09964  149.17  0.0000 979416.96   -4.47  -18.22  -19.47  -21.16
    8100    1500 6481038  414980 -31.80298 140.10183  149.17  0.0000 979417.08   -4.34  -18.09  -19.34  -21.02
    8100    1525 6480982  415261 -31.80352 140.10479  149.48  0.0000 979417.00   -4.36  -18.14  -19.39  -21.09
    8100    1550 6480999  415514 -31.80337 140.10747  149.49  0.0000 979417.30   -4.05  -17.83  -19.08  -20.77
    8100    1575 6481001  415774 -31.80338 140.11021  149.78  0.0000 979417.33   -3.93  -17.74  -18.99  -20.69
    8100    1600 6481006  416015 -31.80336 140.11275  149.82  0.0000 979417.28   -3.97  -17.77  -19.03  -20.72
    8100    1625 6480983  416244 -31.80358 140.11517  149.98  0.0000 979417.26   -3.95  -17.78  -19.03  -20.73
    8100    1650 6481001  416518 -31.80344 140.11807  150.19  0.0000 979417.45   -3.68  -17.53  -18.79  -20.48
    8100    1675 6480984  416781 -31.80361 140.12085  150.33  0.0000 979417.75   -3.36  -17.21  -18.47  -20.17
    8100    1700 6481014  417020 -31.80335 140.12337  150.73  0.0000 979417.90   -3.06  -16.95  -18.22  -19.92
    8100    1725 6480985  417266 -31.80363 140.12597  150.40  0.0000 979418.36   -2.73  -16.59  -17.85  -19.55
    8100    1750 6481008  417502 -31.80344 140.12846  151.57  0.0000 979418.16   -2.55  -16.52  -17.79  -19.51
    8100    1775 6481008  417759 -31.80346 140.13118  151.46  0.0000 979418.03   -2.72  -16.68  -17.94  -19.66
    8100    1800 6481005  417999 -31.80350 140.13372  151.00  0.0000 979418.40   -2.50  -16.42  -17.68  -19.39
    8100    1825 6481004  418242 -31.80353 140.13628  151.71  0.0000 979418.23   -2.45  -16.43  -17.71  -19.42
    8100    1850 6481008  418507 -31.80352 140.13908  151.05  0.0000 979418.63   -2.25  -16.17  -17.44  -19.15
    8100    1875 6481019  418749 -31.80343 140.14164  150.84  0.0000 979419.04   -1.89  -15.80  -17.06  -18.77
    8100    1900 6481040  419000 -31.80326 140.14429  151.14  0.0000 979419.17   -1.66  -15.59  -16.86  -18.57
    8100    1925 6480980  419233 -31.80382 140.14675  151.17  0.0000 979419.28   -1.59  -15.52  -16.79  -18.50
    8100    1950 6481008  419504 -31.80359 140.14962  151.25  0.0000 979419.30   -1.52  -15.46  -16.73  -18.44
    8100    1975 6480999  419746 -31.80368 140.15217  151.48  0.0000 979419.41   -1.35  -15.31  -16.58  -18.30
    8100    2000 6480972  419964 -31.80394 140.15447  151.98  0.0000 979419.19   -1.44  -15.45  -16.72  -18.44
    8100    2025 6480996  420246 -31.80375 140.15745  152.69  0.0000 979418.35   -2.04  -16.12  -17.39  -19.12
    8100    2050 6481024  420497 -31.80352 140.16010  153.39  0.0000 979418.04   -2.12  -16.26  -17.54  -19.28
    8100    2075 6481031  420750 -31.80347 140.16277  153.86  0.0000 979417.51   -2.50  -16.68  -17.97  -19.71
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    8100    2100 6481009  421004 -31.80368 140.16546  154.48  0.0000 979417.11   -2.73  -16.96  -18.26  -20.01
Line 8150
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8150    1325 6481518  413214 -31.79852 140.08321  146.86  0.0000 979416.18   -5.59  -19.12  -20.35  -22.01
    8150    1350 6481491  413452 -31.79878 140.08572  147.38  0.0000 979416.22   -5.41  -18.99  -20.23  -21.89
    8150    1375 6481525  413767 -31.79850 140.08906  147.49  0.0000 979416.54   -5.03  -18.63  -19.86  -21.53
    8150    1400 6481497  413970 -31.79877 140.09119  147.76  0.0000 979416.59   -4.92  -18.54  -19.77  -21.45
    8150    1425 6481488  414230 -31.79887 140.09394  148.19  0.0000 979416.77   -4.61  -18.27  -19.51  -21.19
    8150    1450 6481492  414486 -31.79886 140.09665  148.56  0.0000 979416.53   -4.74  -18.43  -19.68  -21.36
    8150    1475 6481491  414745 -31.79889 140.09938  148.68  0.0000 979416.74   -4.50  -18.20  -19.44  -21.13
    8150    1500 6481506  415000 -31.79877 140.10208  148.51  0.0000 979416.94   -4.34  -18.02  -19.27  -20.95
    8150    1525 6481510  415220 -31.79875 140.10440  148.54  0.0000 979416.84   -4.43  -18.12  -19.37  -21.05
    8150    1550 6481475  415487 -31.79908 140.10722  148.85  0.0000 979416.98   -4.21  -17.93  -19.18  -20.87
    8150    1575 6481487  415720 -31.79899 140.10968  149.36  0.0000 979416.95   -4.08  -17.85  -19.10  -20.79
    8150    1600 6481523  415975 -31.79869 140.11238  149.75  0.0000 979417.05   -3.85  -17.65  -18.90  -20.60
    8150    1625 6481502  416287 -31.79890 140.11567  149.19  0.0000 979417.76   -3.32  -17.07  -18.32  -20.01
    8150    1650 6481497  416482 -31.79895 140.11774  149.46  0.0000 979417.45   -3.56  -17.33  -18.58  -20.27
    8150    1675 6481495  416742 -31.79900 140.12048  149.19  0.0000 979417.30   -3.79  -17.54  -18.79  -20.48
    8150    1700 6481495  416994 -31.79901 140.12314  149.64  0.0000 979417.40   -3.55  -17.34  -18.60  -20.29
    8150    1725 6481489  417230 -31.79908 140.12563  149.85  0.0000 979418.01   -2.88  -16.69  -17.95  -19.64
    8150    1750 6481463  417504 -31.79934 140.12853  150.07  0.0000 979418.27   -2.57  -16.40  -17.66  -19.36
    8150    1775 6481517  417723 -31.79886 140.13084  150.58  0.0000 979418.25   -2.40  -16.28  -17.54  -19.24
    8150    1800 6481505  418004 -31.79899 140.13381  150.32  0.0000 979418.20   -2.54  -16.40  -17.66  -19.36
    8150    1825 6481514  418244 -31.79893 140.13635  150.79  0.0000 979418.28   -2.31  -16.21  -17.47  -19.18
    8150    1850 6481514  418478 -31.79895 140.13882  149.92  0.0000 979418.51   -2.35  -16.16  -17.42  -19.12
    8150    1875 6481491  418727 -31.79918 140.14144  150.06  0.0000 979418.64   -2.19  -16.02  -17.28  -18.98
    8150    1900 6481495  419008 -31.79916 140.14441  150.50  0.0000 979418.80   -1.90  -15.77  -17.03  -18.73
    8150    1925 6481493  419257 -31.79919 140.14704  150.53  0.0000 979418.82   -1.87  -15.75  -17.01  -18.71
    8150    1950 6481501  419486 -31.79913 140.14946  150.10  0.0000 979419.06   -1.75  -15.59  -16.85  -18.55
    8150    1975 6481486  419745 -31.79930 140.15220  150.49  0.0000 979418.92   -1.79  -15.66  -16.92  -18.62
    8150    2000 6481506  419971 -31.79913 140.15458  151.41  0.0000 979418.48   -1.93  -15.89  -17.16  -18.87
    8150    2025 6481517  420225 -31.79904 140.15727  151.46  0.0000 979418.31   -2.08  -16.04  -17.31  -19.03
    8150    2050 6481496  420501 -31.79926 140.16019  152.11  0.0000 979418.22   -1.99  -16.01  -17.28  -19.00
    8150    2075 6481504  420734 -31.79920 140.16265  152.93  0.0000 979417.62   -2.33  -16.42  -17.71  -19.44
    8150    2100 6481520  421013 -31.79907 140.16559  153.66  0.0000 979417.81   -1.90  -16.07  -17.36  -19.09
Line 8200
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8200    1150 6481981  411497 -31.79422 140.06512  146.09  0.0000 979415.48   -6.18  -19.64  -20.87  -22.52
    8200    1175 6481991  411722 -31.79414 140.06750  145.97  0.0000 979415.40   -6.29  -19.74  -20.97  -22.62
    8200    1200 6481994  411982 -31.79414 140.07024  146.28  0.0000 979415.23   -6.36  -19.85  -21.07  -22.73
    8200    1225 6481970  412256 -31.79438 140.07314  146.53  0.0000 979415.39   -6.14  -19.65  -20.88  -22.53
    8200    1250 6482016  412487 -31.79398 140.07558  145.93  0.0000 979415.40   -6.28  -19.73  -20.96  -22.61
    8200    1275 6482006  412732 -31.79408 140.07817  146.74  0.0000 979415.36   -6.08  -19.61  -20.84  -22.50
    8200    1300 6481981  412987 -31.79433 140.08086  146.97  0.0000 979415.61   -5.79  -19.33  -20.56  -22.23
    8200    1325 6481976  413291 -31.79440 140.08407  146.22  0.0000 979416.16   -5.48  -18.95  -20.18  -21.83
    8200    1350 6481994  413490 -31.79425 140.08617  146.47  0.0000 979416.12   -5.43  -18.93  -20.15  -21.81
    8200    1375 6481990  413751 -31.79431 140.08893  147.13  0.0000 979416.34   -5.01  -18.57  -19.80  -21.47
    8200    1400 6481998  413989 -31.79425 140.09144  147.56  0.0000 979415.88   -5.32  -18.92  -20.16  -21.83
    8200    1425 6481992  414242 -31.79433 140.09411  147.76  0.0000 979416.07   -5.08  -18.70  -19.94  -21.61
    8200    1450 6482000  414516 -31.79427 140.09700  147.92  0.0000 979416.29   -4.81  -18.45  -19.69  -21.36
    8200    1475 6482023  414753 -31.79408 140.09951  147.68  0.0000 979416.70   -4.45  -18.06  -19.30  -20.97
    8200    1500 6481994  414990 -31.79437 140.10202  148.03  0.0000 979416.76   -4.31  -17.96  -19.20  -20.87
    8200    1520 6482016  415157 -31.79417 140.10378  147.99  0.0000 979416.78   -4.29  -17.93  -19.17  -20.84
    8200    1525 6481954  415279 -31.79475 140.10506  147.91  0.0000 979416.62   -4.52  -18.15  -19.39  -21.07
    8200    1530 6482009  415242 -31.79425 140.10468  147.87  0.0000 979416.62   -4.49  -18.12  -19.36  -21.03
    8200    1540 6481970  415398 -31.79461 140.10632  148.37  0.0000 979416.56   -4.42  -18.10  -19.34  -21.02
    8200    1550 6482045  415486 -31.79394 140.10725  148.13  0.0000 979416.90   -4.11  -17.76  -19.00  -20.68
    8200    1560 6481998  415601 -31.79437 140.10847  147.99  0.0000 979417.15   -3.94  -17.58  -18.82  -20.49
    8200    1570 6482015  415746 -31.79423 140.11001  148.44  0.0000 979417.30   -3.64  -17.32  -18.56  -20.24
    8200    1575 6482003  415740 -31.79434 140.10993  148.45  0.0000 979417.28   -3.66  -17.34  -18.58  -20.26
    8200    1580 6482033  415787 -31.79407 140.11044  148.45  0.0000 979417.55   -3.37  -17.05  -18.29  -19.97
    8200    1590 6481990  415895 -31.79446 140.11158  148.78  0.0000 979417.95   -2.90  -16.61  -17.86  -19.54
    8200    1600 6482023  415982 -31.79418 140.11249  149.06  0.0000 979418.20   -2.54  -16.28  -17.52  -19.21
    8200    1610 6481983  416107 -31.79455 140.11381  148.44  0.0000 979418.44   -2.52  -16.21  -17.45  -19.13
    8200    1620 6482032  416165 -31.79411 140.11443  148.48  0.0000 979418.41   -2.50  -16.18  -17.43  -19.11
    8200    1625 6481997  416277 -31.79443 140.11561  148.05  0.0000 979418.50   -2.57  -16.22  -17.46  -19.13
    8200    1630 6482000  416330 -31.79441 140.11617  148.52  0.0000 979418.35   -2.57  -16.26  -17.51  -19.19
    8200    1640 6482018  416397 -31.79425 140.11687  148.21  0.0000 979418.37   -2.63  -16.30  -17.54  -19.21
    8200    1650 6481991  416503 -31.79451 140.11799  148.27  0.0000 979418.12   -2.89  -16.56  -17.80  -19.48
    8200    1660 6482003  416585 -31.79440 140.11886  148.13  0.0000 979417.78   -3.26  -16.92  -18.16  -19.83
    8200    1670 6482011  416673 -31.79433 140.11979  148.56  0.0000 979417.30   -3.60  -17.30  -18.54  -20.22
    8200    1675 6481973  416765 -31.79469 140.12076  148.51  0.0000 979417.14   -3.81  -17.50  -18.74  -20.42
    8200    1680 6481980  416777 -31.79462 140.12089  148.42  0.0000 979417.07   -3.90  -17.58  -18.83  -20.51
    8200    1690 6482022  416876 -31.79425 140.12194  148.40  0.0000 979416.97   -3.98  -17.66  -18.90  -20.58
    8200    1700 6482028  416996 -31.79420 140.12321  148.39  0.0000 979417.13   -3.82  -17.50  -18.74  -20.42
    8200    1710 6482037  417103 -31.79413 140.12434  149.07  0.0000 979416.88   -3.85  -17.59  -18.84  -20.52
    8200    1720 6482030  417226 -31.79420 140.12563  148.90  0.0000 979417.19   -3.60  -17.32  -18.57  -20.26
    8200    1725 6482013  417239 -31.79436 140.12577  148.87  0.0000 979417.29   -3.52  -17.25  -18.49  -20.18
    8200    1750 6482015  417502 -31.79436 140.12855  149.18  0.0000 979417.87   -2.85  -16.60  -17.85  -19.53
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    8200    1775 6482010  417732 -31.79442 140.13098  149.38  0.0000 979418.16   -2.50  -16.27  -17.52  -19.21
    8200    1800 6481996  418011 -31.79456 140.13392  150.01  0.0000 979418.21   -2.27  -16.09  -17.35  -19.05
    8200    1825 6481954  418253 -31.79497 140.13648  149.70  0.0000 979418.40   -2.20  -16.00  -17.26  -18.95
    8200    1850 6482016  418527 -31.79443 140.13938  149.23  0.0000 979418.39   -2.32  -16.07  -17.32  -19.01
    8200    1875 6482021  418737 -31.79440 140.14159  149.69  0.0000 979418.35   -2.21  -16.01  -17.27  -18.96
    8200    1900 6482008  418994 -31.79453 140.14430  149.45  0.0000 979418.35   -2.30  -16.07  -17.33  -19.02
    8200    1925 6482018  419267 -31.79445 140.14719  149.29  0.0000 979418.56   -2.13  -15.89  -17.14  -18.83
    8200    1950 6481992  419502 -31.79471 140.14967  149.41  0.0000 979418.55   -2.12  -15.90  -17.15  -18.84
    8200    1975 6482001  419767 -31.79465 140.15248  149.79  0.0000 979418.54   -2.01  -15.82  -17.07  -18.77
    8200    2000 6482034  419987 -31.79436 140.15480  149.85  0.0000 979418.55   -1.96  -15.77  -17.03  -18.72
    8200    2025 6481999  420269 -31.79470 140.15777  150.77  0.0000 979418.31   -1.94  -15.84  -17.10  -18.81
    8200    2050 6482001  420510 -31.79470 140.16032  151.15  0.0000 979418.95   -1.19  -15.12  -16.38  -18.09
    8200    2075 6482010  420771 -31.79463 140.16308  151.80  0.0000 979418.46   -1.47  -15.46  -16.74  -18.45
    8200    2100 6481997  421014 -31.79477 140.16564  152.49  0.0000 979418.00   -1.72  -15.78  -17.06  -18.78
Line 8250
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8250    1150 6482498  411512 -31.78955 140.06533  144.91  0.0000 979415.40   -6.25  -19.60  -20.82  -22.46
    8250    1175 6482534  411743 -31.78925 140.06777  144.88  0.0000 979415.70   -5.93  -19.28  -20.50  -22.14
    8250    1200 6482504  411955 -31.78954 140.07001  144.91  0.0000 979415.86   -5.79  -19.14  -20.36  -22.00
    8250    1225 6482526  412209 -31.78935 140.07269  144.82  0.0000 979415.67   -5.99  -19.33  -20.55  -22.19
    8250    1250 6482512  412507 -31.78950 140.07583  145.84  0.0000 979415.36   -5.99  -19.44  -20.66  -22.31
    8250    1275 6482486  412766 -31.78976 140.07857  145.73  0.0000 979415.57   -5.84  -19.27  -20.49  -22.14
    8250    1300 6482490  413013 -31.78974 140.08118  145.29  0.0000 979415.73   -5.81  -19.20  -20.42  -22.06
    8250    1325 6482509  413245 -31.78959 140.08363  145.18  0.0000 979415.83   -5.74  -19.12  -20.34  -21.98
    8250    1350 6482502  413502 -31.78967 140.08635  145.50  0.0000 979415.98   -5.49  -18.90  -20.12  -21.77
    8250    1375 6482528  413731 -31.78945 140.08876  146.16  0.0000 979415.73   -5.52  -18.99  -20.22  -21.87
    8250    1400 6482479  414003 -31.78992 140.09164  146.90  0.0000 979415.69   -5.37  -18.91  -20.14  -21.80
    8250    1425 6482490  414258 -31.78984 140.09433  146.68  0.0000 979415.64   -5.48  -19.00  -20.23  -21.89
    8250    1450 6482480  414479 -31.78995 140.09667  146.96  0.0000 979415.78   -5.26  -18.81  -20.04  -21.70
    8250    1475 6482503  414754 -31.78975 140.09957  146.57  0.0000 979416.28   -4.86  -18.37  -19.60  -21.26
    8250    1500 6482496  414970 -31.78984 140.10185  146.80  0.0000 979416.36   -4.72  -18.25  -19.48  -21.14
    8250    1525 6482491  415230 -31.78990 140.10459  146.81  0.0000 979416.50   -4.59  -18.12  -19.35  -21.01
    8250    1550 6482521  415489 -31.78965 140.10733  147.64  0.0000 979416.67   -4.14  -17.75  -18.98  -20.65
    8250    1575 6482511  415747 -31.78975 140.11006  147.56  0.0000 979417.60   -3.25  -16.85  -18.09  -19.75
    8250    1600 6482511  415962 -31.78977 140.11232  148.27  0.0000 979417.36   -3.27  -16.93  -18.18  -19.85
    8250    1625 6482502  416227 -31.78987 140.11513  147.26  0.0000 979417.53   -3.41  -16.98  -18.22  -19.88
    8250    1650 6482507  416458 -31.78985 140.11756  147.32  0.0000 979418.04   -2.89  -16.46  -17.70  -19.37
    8250    1675 6482493  416743 -31.78999 140.12058  147.71  0.0000 979417.08   -3.73  -17.35  -18.58  -20.25
    8250    1700 6482525  416991 -31.78972 140.12319  147.56  0.0000 979416.90   -3.94  -17.54  -18.77  -20.44
    8250    1725 6482486  417244 -31.79010 140.12586  148.09  0.0000 979417.12   -3.59  -17.24  -18.48  -20.15
    8250    1750 6482520  417505 -31.78981 140.12862  148.61  0.0000 979417.68   -2.84  -16.54  -17.79  -19.47
    8250    1775 6482496  417766 -31.79004 140.13137  148.24  0.0000 979418.22   -2.44  -16.10  -17.34  -19.02
    8250    1800 6482547  418009 -31.78960 140.13395  148.49  0.0000 979418.09   -2.45  -16.14  -17.38  -19.06
    8250    1825 6482501  418248 -31.79003 140.13647  148.44  0.0000 979418.18   -2.41  -16.09  -17.34  -19.02
    8250    1850 6482479  418483 -31.79025 140.13895  148.53  0.0000 979418.55   -2.03  -15.72  -16.97  -18.65
    8250    1875 6482480  418746 -31.79025 140.14172  148.72  0.0000 979418.50   -2.03  -15.73  -16.98  -18.66
    8250    1900 6482482  418993 -31.79026 140.14434  148.34  0.0000 979418.55   -2.09  -15.76  -17.00  -18.68
    8250    1925 6482498  419254 -31.79013 140.14710  148.73  0.0000 979418.28   -2.23  -15.94  -17.19  -18.87
    8250    1950 6482492  419496 -31.79020 140.14965  148.74  0.0000 979418.33   -2.18  -15.89  -17.14  -18.82
    8250    1975 6482455  419728 -31.79055 140.15210  148.68  0.0000 979418.45   -2.11  -15.81  -17.06  -18.74
    8250    2000 6482522  419991 -31.78996 140.15488  149.43  0.0000 979418.16   -2.13  -15.90  -17.15  -18.84
    8250    2025 6482466  420244 -31.79048 140.15755  149.50  0.0000 979418.34   -1.96  -15.74  -16.99  -18.69
    8250    2050 6482487  420496 -31.79032 140.16021  149.89  0.0000 979418.24   -1.93  -15.74  -17.00  -18.69
    8250    2075 6482502  420757 -31.79019 140.16297  150.35  0.0000 979418.46   -1.55  -15.41  -16.67  -18.37
    8250    2100 6482536  421026 -31.78991 140.16581  150.87  0.0000 979418.23   -1.60  -15.50  -16.77  -18.48
Line 8300
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8300    1150 6483004  411482 -31.78498 140.06506  143.90  0.0000 979415.62   -5.97  -19.23  -20.44  -22.07
    8300    1175 6483007  411733 -31.78498 140.06770  143.65  0.0000 979415.72   -5.94  -19.18  -20.39  -22.01
    8300    1200 6482990  411998 -31.78515 140.07051  143.52  0.0000 979416.01   -5.71  -18.93  -20.14  -21.76
    8300    1225 6482984  412270 -31.78523 140.07338  143.93  0.0000 979415.77   -5.82  -19.09  -20.30  -21.92
    8300    1250 6483017  412486 -31.78495 140.07566  145.04  0.0000 979415.33   -5.90  -19.27  -20.48  -22.12
    8300    1275 6482994  412746 -31.78518 140.07841  144.18  0.0000 979415.74   -5.77  -19.06  -20.27  -21.90
    8300    1300 6482981  412997 -31.78531 140.08106  144.17  0.0000 979416.09   -5.44  -18.73  -19.94  -21.57
    8300    1325 6483014  413249 -31.78503 140.08372  144.26  0.0000 979416.11   -5.37  -18.67  -19.88  -21.51
    8300    1350 6482998  413497 -31.78519 140.08634  144.69  0.0000 979416.22   -5.14  -18.47  -19.69  -21.32
    8300    1375 6483007  413708 -31.78513 140.08856  145.37  0.0000 979416.12   -5.02  -18.42  -19.64  -21.29
    8300    1400 6483011  414002 -31.78512 140.09167  145.65  0.0000 979416.15   -4.91  -18.33  -19.55  -21.20
    8300    1425 6482989  414236 -31.78533 140.09414  145.50  0.0000 979416.09   -5.03  -18.44  -19.66  -21.31
    8300    1450 6483026  414528 -31.78502 140.09723  145.60  0.0000 979415.66   -5.40  -18.82  -20.04  -21.69
    8300    1475 6483017  414757 -31.78512 140.09965  145.84  0.0000 979415.62   -5.38  -18.82  -20.04  -21.69
    8300    1500 6483029  414988 -31.78502 140.10209  145.76  0.0000 979416.03   -4.99  -18.42  -19.64  -21.29
    8300    1525 6482981  415272 -31.78548 140.10509  146.36  0.0000 979416.01   -4.86  -18.35  -19.57  -21.23
    8300    1550 6483027  415491 -31.78509 140.10739  146.15  0.0000 979416.21   -4.69  -18.16  -19.39  -21.04
    8300    1575 6483021  415758 -31.78515 140.11021  146.91  0.0000 979416.87   -3.80  -17.34  -18.57  -20.24
    8300    1600 6483020  415944 -31.78518 140.11219  146.86  0.0000 979416.84   -3.85  -17.39  -18.62  -20.28
    8300    1625 6483027  416245 -31.78514 140.11536  146.62  0.0000 979416.40   -4.36  -17.87  -19.10  -20.76
    8300    1650 6482988  416499 -31.78551 140.11804  146.49  0.0000 979416.48   -4.35  -17.85  -19.08  -20.73
    8300    1675 6483000  416718 -31.78541 140.12035  147.40  0.0000 979416.11   -4.43  -18.02  -19.26  -20.92
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8300	1700	6483009	416998	-31.78536	140.12331	147.14	0.0000	979416.28	-4.34	-17.90	-19.13	-20.80
8300	1725	6482997	417270	-31.78548	140.12618	147.19	0.0000	979416.74	-3.87	-17.43	-18.67	-20.33
8300	1750	6482997	417514	-31.78550	140.12876	146.87	0.0000	979417.34	-3.37	-16.90	-18.14	-19.80
8300	1775	6482967	417749	-31.78579	140.13124	147.53	0.0000	979417.70	-2.83	-16.43	-17.67	-19.34
8300	1800	6483009	417991	-31.78542	140.13380	147.62	0.0000	979417.92	-2.55	-16.16	-17.39	-19.06
8300	1801	6482942	418032	-31.78604	140.13423	147.97	0.0000	979417.84	-2.57	-16.21	-17.45	-19.13
8300	1825	6483020	418268	-31.78535	140.13673	147.51	0.0000	979419.41	-1.09	-14.69	-15.92	-17.59
8300	1850	6483008	418514	-31.78547	140.13932	147.38	0.0000	979418.28	-2.27	-15.85	-17.09	-18.76
8300	1875	6483009	418751	-31.78548	140.14183	147.57	0.0000	979417.95	-2.54	-16.14	-17.38	-19.05
8300	1900	6483023	418985	-31.78537	140.14429	147.47	0.0000	979417.96	-2.56	-16.15	-17.39	-19.05
8300	1925	6483009	419259	-31.78552	140.14719	147.80	0.0000	979417.79	-2.64	-16.26	-17.50	-19.17
8300	1950	6483008	419493	-31.78554	140.14966	147.50	0.0000	979417.86	-2.66	-16.26	-17.49	-19.16
8300	1975	6483018	419739	-31.78547	140.15226	147.70	0.0000	979418.03	-2.43	-16.04	-17.28	-18.95
8300	2000	6483039	419985	-31.78530	140.15486	148.49	0.0000	979417.82	-2.37	-16.06	-17.30	-18.98
8300	2025	6483016	420231	-31.78552	140.15745	148.74	0.0000	979417.96	-2.18	-15.88	-17.13	-18.81
8300	2050	6483006	420502	-31.78563	140.16032	148.77	0.0000	979417.85	-2.29	-16.00	-17.25	-18.93
8300	2075	6483005	420771	-31.78566	140.16316	149.38	0.0000	979417.76	-2.19	-15.96	-17.21	-18.90
8300	2100	6483008	421003	-31.78565	140.16560	149.53	0.0000	979417.83	-2.08	-15.86	-17.11	-18.80

Line 8350

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8350	1150	6483474	411514	-31.78075	140.06543	142.61	0.0000	979415.34	-6.31	-19.45	-20.65	-22.26
8350	1175	6483500	411754	-31.78053	140.06797	142.61	0.0000	979415.70	-5.92	-19.06	-20.26	-21.87
8350	1200	6483501	412031	-31.78054	140.07090	142.98	0.0000	979415.56	-5.95	-19.13	-20.33	-21.94
8350	1225	6483514	412255	-31.78044	140.07327	144.34	0.0000	979415.39	-5.69	-19.00	-20.21	-21.84
8350	1250	6483504	412530	-31.78056	140.07617	143.32	0.0000	979415.89	-5.51	-18.72	-19.92	-21.54
8350	1275	6483497	412773	-31.78064	140.07873	143.31	0.0000	979415.98	-5.44	-18.65	-19.85	-21.47
8350	1300	6483527	412994	-31.78038	140.08107	143.30	0.0000	979416.10	-5.30	-18.51	-19.71	-21.33
8350	1325	6483510	413253	-31.78055	140.08380	143.48	0.0000	979416.52	-4.83	-18.06	-19.26	-20.88
8350	1350	6483514	413474	-31.78053	140.08614	143.61	0.0000	979416.84	-4.48	-17.71	-18.92	-20.54
8350	1375	6483495	413752	-31.78073	140.08907	144.05	0.0000	979416.83	-4.37	-17.65	-18.85	-20.48
8350	1400	6483480	413998	-31.78089	140.09167	144.21	0.0000	979416.98	-4.18	-17.48	-18.68	-20.31
8350	1425	6483505	414256	-31.78067	140.09439	144.81	0.0000	979417.37	-3.59	-16.93	-18.15	-19.78
8350	1450	6483478	414512	-31.78094	140.09710	144.67	0.0000	979416.88	-4.14	-17.48	-18.69	-20.33
8350	1475	6483527	414750	-31.78052	140.09962	144.23	0.0000	979416.96	-4.16	-17.46	-18.66	-20.30
8350	1500	6483519	415002	-31.78061	140.10227	144.60	0.0000	979416.49	-4.52	-17.85	-19.06	-20.70
8350	1525	6483517	415288	-31.78065	140.10529	144.74	0.0000	979416.18	-4.79	-18.13	-19.35	-20.98
8350	1550	6483530	415487	-31.78054	140.10739	145.02	0.0000	979415.97	-4.91	-18.28	-19.49	-21.13
8350	1575	6483518	415747	-31.78067	140.11014	145.76	0.0000	979416.18	-4.48	-17.92	-19.14	-20.79
8350	1600	6483500	415995	-31.78085	140.11276	145.43	0.0000	979417.13	-3.65	-17.05	-18.27	-19.92
8350	1625	6483472	416214	-31.78112	140.11508	145.50	0.0000	979416.65	-4.13	-17.54	-18.76	-20.40
8350	1650	6483516	416480	-31.78074	140.11788	145.20	0.0000	979416.45	-4.39	-17.78	-18.99	-20.64
8350	1675	6483523	416740	-31.78070	140.12063	145.52	0.0000	979416.41	-4.33	-17.74	-18.96	-20.61
8350	1700	6483486	417015	-31.78105	140.12353	146.07	0.0000	979416.53	-4.07	-17.53	-18.76	-20.41
8350	1725	6483492	417251	-31.78102	140.12603	145.95	0.0000	979416.45	-4.18	-17.64	-18.86	-20.51
8350	1750	6483507	417493	-31.78089	140.12858	145.91	0.0000	979416.64	-3.99	-17.44	-18.66	-20.31
8350	1775	6483504	417740	-31.78095	140.13119	146.37	0.0000	979416.80	-3.69	-17.18	-18.41	-20.07
8350	1800	6483490	418013	-31.78109	140.13407	145.90	0.0000	979417.56	-3.10	-16.54	-17.77	-19.42
8350	1825	6483507	418241	-31.78095	140.13648	146.14	0.0000	979418.25	-2.32	-15.79	-17.01	-18.67
8350	1850	6483490	418505	-31.78112	140.13927	146.26	0.0000	979418.18	-2.37	-15.85	-17.07	-18.73
8350	1875	6483501	418729	-31.78104	140.14164	147.18	0.0000	979417.46	-2.79	-16.36	-17.59	-19.26
8350	1900	6483531	419003	-31.78079	140.14453	146.39	0.0000	979417.60	-2.88	-16.37	-17.60	-19.26
8350	1925	6483490	419251	-31.78118	140.14715	146.62	0.0000	979417.46	-2.98	-16.49	-17.72	-19.38
8350	1950	6483506	419511	-31.78105	140.14990	147.07	0.0000	979416.75	-3.54	-17.09	-18.32	-19.99
8350	1975	6483485	419741	-31.78126	140.15232	147.31	0.0000	979416.45	-3.78	-17.36	-18.60	-20.26
8350	2000	6483508	420020	-31.78107	140.15527	147.26	0.0000	979416.81	-3.42	-16.99	-18.23	-19.89
8350	2025	6483513	420224	-31.78104	140.15743	147.47	0.0000	979416.91	-3.26	-16.85	-18.08	-19.75
8350	2050	6483500	420519	-31.78117	140.16054	147.41	0.0000	979417.51	-2.68	-16.27	-17.50	-19.17
8350	2075	6483495	420760	-31.78124	140.16308	147.86	0.0000	979417.71	-2.35	-15.98	-17.22	-18.89
8350	2100	6483517	421051	-31.78106	140.16616	148.11	0.0000	979417.75	-2.22	-15.87	-17.12	-18.79

Line 8400

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8400	1150	6483992	411499	-31.77608	140.06532	141.98	0.0000	979415.34	-6.12	-19.20	-20.39	-22.00
8400	1175	6483946	411761	-31.77651	140.06809	143.34	0.0000	979414.68	-6.39	-19.61	-20.81	-22.43
8400	1200	6484015	412007	-31.77591	140.07069	143.00	0.0000	979414.88	-6.25	-19.43	-20.63	-22.24
8400	1225	6483994	412257	-31.77612	140.07333	142.47	0.0000	979415.31	-6.00	-19.13	-20.32	-21.93
8400	1250	6483994	412509	-31.77614	140.07599	143.70	0.0000	979416.07	-4.86	-18.11	-19.31	-20.94
8400	1275	6483978	412764	-31.77629	140.07868	142.68	0.0000	979415.93	-5.33	-18.48	-19.68	-21.29
8400	1300	6484006	412996	-31.77606	140.08114	142.21	0.0000	979415.82	-5.56	-18.67	-19.86	-21.47
8400	1325	6483996	413248	-31.77617	140.08380	142.58	0.0000	979416.15	-5.13	-18.27	-19.47	-21.08
8400	1350	6484018	413504	-31.77600	140.08650	142.75	0.0000	979416.43	-4.79	-17.95	-19.14	-20.76
8400	1375	6484025	413738	-31.77595	140.08897	143.38	0.0000	979416.66	-4.36	-17.57	-18.77	-20.40
8400	1400	6483989	413997	-31.77629	140.09171	143.63	0.0000	979417.36	-3.61	-16.85	-18.05	-19.68
8400	1425	6483982	414234	-31.77637	140.09421	144.11	0.0000	979416.76	-4.06	-17.35	-18.55	-20.18
8400	1450	6484001	414529	-31.77623	140.09732	143.72	0.0000	979417.09	-3.85	-17.09	-18.30	-19.92
8400	1475	6483973	414726	-31.77649	140.09940	143.70	0.0000	979417.09	-3.87	-17.12	-18.32	-19.95
8400	1500	6484011	414966	-31.77616	140.10194	143.93	0.0000	979416.94	-3.93	-17.19	-18.40	-20.03
8400	1525	6484051	415239	-31.77583	140.10482	143.41	0.0000	979416.60	-4.39	-17.61	-18.81	-20.44
8400	1550	6484027	415472	-31.77606	140.10729	143.39	0.0000	979416.35	-4.67	-17.89	-19.09	-20.71
8400	1575	6483996	415744	-31.77636	140.11015	143.98	0.0000	979416.19	-4.67	-17.94	-19.15	-20.78

8400	1600	6484019	415997	-31.77617	140.11283	144.26	0.0000	979416.17	-4.59	-17.89	-19.09	-20.73
8400	1625	6483992	416249	-31.77643	140.11548	143.95	0.0000	979417.06	-3.82	-17.09	-18.29	-19.92
8400	1650	6484010	416488	-31.77629	140.11801	144.52	0.0000	979416.62	-4.07	-17.40	-18.61	-20.24
8400	1675	6483978	416766	-31.77660	140.12094	144.64	0.0000	979416.19	-4.49	-17.82	-19.04	-20.67
8400	1700	6483995	417010	-31.77646	140.12352	145.07	0.0000	979416.44	-4.10	-17.47	-18.68	-20.33
8400	1725	6484034	417252	-31.77613	140.12608	144.43	0.0000	979416.41	-4.30	-17.61	-18.82	-20.46
8400	1750	6483999	417503	-31.77646	140.12873	144.55	0.0000	979416.48	-4.22	-17.54	-18.76	-20.39
8400	1775	6483992	417750	-31.77654	140.13133	144.87	0.0000	979416.89	-3.71	-17.07	-18.28	-19.92
8400	1800	6484021	417994	-31.77630	140.13392	144.82	0.0000	979417.10	-3.50	-16.85	-18.07	-19.70
8400	1825	6484037	418240	-31.77617	140.13651	145.16	0.0000	979417.11	-3.38	-16.76	-17.98	-19.62
8400	1850	6483993	418503	-31.77659	140.13929	145.39	0.0000	979417.14	-3.31	-16.71	-17.93	-19.58
8400	1875	6484012	418764	-31.77643	140.14204	145.26	0.0000	979417.11	-3.36	-16.75	-17.97	-19.61
8400	1900	6484001	418984	-31.77655	140.14437	145.99	0.0000	979416.82	-3.44	-16.89	-18.11	-19.77
8400	1925	6484006	419284	-31.77652	140.14753	145.67	0.0000	979417.01	-3.34	-16.77	-17.99	-19.64
8400	1950	6484004	419477	-31.77656	140.14957	146.22	0.0000	979415.87	-4.32	-17.80	-19.02	-20.68
8400	1975	6484012	419745	-31.77650	140.15240	146.42	0.0000	979415.60	-4.52	-18.02	-19.24	-20.90
8400	2000	6484003	420011	-31.77661	140.15521	146.54	0.0000	979416.62	-3.48	-16.99	-18.21	-19.87
8400	2025	6483973	420269	-31.77689	140.15794	146.48	0.0000	979416.82	-3.32	-16.82	-18.05	-19.71
8400	2050	6483963	420505	-31.77699	140.16042	146.75	0.0000	979416.50	-3.56	-17.08	-18.31	-19.97
8400	2075	6484013	420759	-31.77657	140.16311	146.95	0.0000	979416.78	-3.18	-16.73	-17.96	-19.62
8400	2100	6484009	421019	-31.77662	140.16586	146.83	0.0000	979417.43	-2.57	-16.10	-17.33	-19.00

Line 8450
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8450	1150	6484498	411506	-31.77151	140.06544	141.16	0.0000	979415.29	-6.05	-19.06	-20.24	-21.84
8450	1175	6484501	411776	-31.77150	140.06829	141.87	0.0000	979415.66	-5.46	-18.54	-19.73	-21.33
8450	1200	6484511	411985	-31.77143	140.07051	141.22	0.0000	979416.23	-5.09	-18.11	-19.29	-20.89
8450	1225	6484480	412224	-31.77173	140.07302	143.25	0.0000	979416.04	-4.67	-17.88	-19.08	-20.70
8450	1250	6484512	412513	-31.77146	140.07608	143.27	0.0000	979415.70	-4.99	-18.20	-19.40	-21.02
8450	1275	6484529	412739	-31.77132	140.07846	141.91	0.0000	979415.63	-5.46	-18.54	-19.73	-21.34
8450	1300	6484519	413008	-31.77144	140.08131	141.47	0.0000	979415.87	-5.37	-18.41	-19.59	-21.19
8450	1325	6484505	413240	-31.77158	140.08375	141.76	0.0000	979416.05	-5.11	-18.18	-19.37	-20.97
8450	1350	6484519	413503	-31.77148	140.08653	141.65	0.0000	979416.01	-5.18	-18.23	-19.42	-21.02
8450	1375	6484506	413750	-31.77161	140.08914	141.47	0.0000	979416.48	-4.77	-17.81	-19.00	-20.60
8450	1400	6484494	413988	-31.77174	140.09165	141.96	0.0000	979416.82	-4.30	-17.38	-18.57	-20.18
8450	1425	6484490	414219	-31.77179	140.09410	142.68	0.0000	979417.18	-3.72	-16.87	-18.07	-19.68
8450	1450	6484461	414493	-31.77207	140.09698	142.87	0.0000	979417.14	-3.72	-16.89	-18.09	-19.70
8450	1475	6484481	414750	-31.77191	140.09970	143.08	0.0000	979417.25	-3.53	-16.72	-17.92	-19.54
8450	1500	6484485	414997	-31.77190	140.10231	143.06	0.0000	979417.09	-3.70	-16.88	-18.08	-19.70
8450	1525	6484529	415241	-31.77151	140.10488	142.48	0.0000	979417.18	-3.76	-16.89	-18.08	-19.69
8450	1550	6484494	415493	-31.77185	140.10755	142.38	0.0000	979416.58	-4.42	-17.54	-18.73	-20.34
8450	1575	6484521	415762	-31.77162	140.11039	143.03	0.0000	979416.33	-4.44	-17.62	-18.82	-20.44
8450	1600	6484538	415984	-31.77149	140.11273	143.42	0.0000	979416.34	-4.31	-17.53	-18.73	-20.35
8450	1625	6484474	416269	-31.77209	140.11574	143.21	0.0000	979416.61	-4.14	-17.34	-18.54	-20.16
8450	1650	6484489	416488	-31.77197	140.11805	143.57	0.0000	979416.42	-4.21	-17.45	-18.65	-20.27
8450	1675	6484518	416748	-31.77172	140.12080	143.95	0.0000	979416.46	-4.04	-17.31	-18.52	-20.14
8450	1700	6484502	417006	-31.77188	140.12352	144.52	0.0000	979416.25	-4.09	-17.41	-18.62	-20.26
8450	1725	6484482	417245	-31.77209	140.12604	143.79	0.0000	979416.82	-3.76	-17.01	-18.22	-19.84
8450	1750	6484518	417482	-31.77178	140.12855	143.82	0.0000	979416.84	-3.70	-16.96	-18.16	-19.79
8450	1775	6484521	417745	-31.77177	140.13133	144.27	0.0000	979416.74	-3.66	-16.96	-18.17	-19.80
8450	1800	6484511	417980	-31.77188	140.13381	144.42	0.0000	979416.44	-3.93	-17.24	-18.45	-20.08
8450	1825	6484504	418241	-31.77196	140.13656	144.66	0.0000	979416.54	-3.76	-17.09	-18.31	-19.94
8450	1850	6484503	418503	-31.77199	140.13933	144.55	0.0000	979416.67	-3.66	-16.99	-18.20	-19.83
8450	1875	6484516	418728	-31.77189	140.14171	144.56	0.0000	979416.72	-3.60	-16.92	-18.14	-19.77
8450	1900	6484470	419029	-31.77232	140.14488	145.01	0.0000	979416.76	-3.46	-16.82	-18.04	-19.68
8450	1925	6484480	419263	-31.77225	140.14736	145.47	0.0000	979416.63	-3.44	-16.85	-18.07	-19.71
8450	1950	6484524	419506	-31.77187	140.14992	145.06	0.0000	979416.69	-3.47	-16.84	-18.06	-19.70
8450	1975	6484513	419760	-31.77198	140.15261	145.42	0.0000	979416.32	-3.75	-17.15	-18.37	-20.02
8450	2000	6484504	419989	-31.77208	140.15502	145.54	0.0000	979416.32	-3.72	-17.13	-18.35	-20.00
8450	2025	6484503	420271	-31.77211	140.15800	144.88	0.0000	979416.81	-3.44	-16.79	-18.00	-19.64
8450	2050	6484504	420493	-31.77212	140.16034	145.47	0.0000	979416.57	-3.49	-16.90	-18.12	-19.76
8450	2075	6484493	420727	-31.77223	140.16282	145.66	0.0000	979416.49	-3.53	-16.95	-18.17	-19.82
8450	2100	6484505	420986	-31.77215	140.16555	145.52	0.0000	979416.01	-4.04	-17.45	-18.67	-20.31

Line 8475
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8475	1150	6484760	411488	-31.76915	140.06528	140.91	0.0000	979415.28	-5.95	-18.94	-20.12	-21.71
8475	1160	6484759	411615	-31.76917	140.06662	140.96	0.0000	979415.52	-5.70	-18.69	-19.87	-21.46
8475	1170	6484767	411706	-31.76910	140.06758	141.02	0.0000	979415.59	-5.60	-18.60	-19.78	-21.37
8475	1180	6484777	411797	-31.76902	140.06854	140.84	0.0000	979415.61	-5.63	-18.61	-19.79	-21.38
8475	1190	6484763	411904	-31.76915	140.06967	138.69	0.0000	979415.87	-6.04	-18.82	-19.98	-21.55
8475	1200	6484752	412002	-31.76926	140.07071	140.73	0.0000	979416.13	-5.17	-18.14	-19.32	-20.91
8475	1210	6484754	412091	-31.76925	140.07165	140.70	0.0000	979416.55	-4.75	-17.72	-18.90	-20.49
8475	1220	6484746	412166	-31.76932	140.07244	141.35	0.0000	979416.82	-4.28	-17.31	-18.50	-20.10
8475	1230	6484754	412283	-31.76926	140.07368	142.60	0.0000	979416.91	-3.81	-16.95	-18.15	-19.76
8475	1240	6484749	412400	-31.76932	140.07491	142.25	0.0000	979417.09	-3.73	-16.85	-18.04	-19.65
8475	1250	6484750	412519	-31.76932	140.07616	142.03	0.0000	979416.90	-3.99	-17.09	-18.28	-19.88
8475	1260	6484771	412601	-31.76913	140.07703	142.09	0.0000	979416.66	-4.20	-17.30	-18.49	-20.10
8475	1270	6484759	412697	-31.76925	140.07805	141.68	0.0000	979416.30	-4.70	-17.76	-18.95	-20.55
8475	1280	6484761	412800	-31.76924	140.07914	141.47	0.0000	979416.08	-4.98	-18.02	-19.21	-20.81
8475	1290	6484759	412912	-31.76926	140.08032	141.03	0.0000	979416.07	-5.13	-18.13	-19.31	-20.91

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    8475    1300 6484756  413002 -31.76930 140.08126  141.00  0.0000 979416.09   -5.12  -18.12  -19.30  -20.89
    8475    1310 6484755  413115 -31.76931 140.08245  141.25  0.0000 979416.03   -5.10  -18.12  -19.31  -20.91
    8475    1320 6484741  413243 -31.76945 140.08381  141.27  0.0000 979416.13   -5.02  -18.04  -19.22  -20.82
    8475    1330 6484762  413328 -31.76927 140.08471  141.02  0.0000 979416.27   -4.94  -17.94  -19.12  -20.71
Line 8500
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8500    1150 6484999  411462 -31.76699 140.06502  140.50  0.0000 979415.30   -5.88  -18.83  -20.01  -21.60
    8500    1175 6485000  411688 -31.76699 140.06742  140.50  0.0000 979415.63   -5.55  -18.50  -19.67  -21.26
    8500    1200 6484999  411970 -31.76703 140.07039  140.19  0.0000 979415.83   -5.45  -18.37  -19.54  -21.13
    8500    1225 6485016  412251 -31.76690 140.07336  140.64  0.0000 979416.80   -4.33  -17.29  -18.47  -20.06
    8500    1250 6485014  412487 -31.76693 140.07585  141.99  0.0000 979417.79   -2.92  -16.01  -17.20  -18.80
    8500    1275 6484986  412750 -31.76721 140.07863  141.65  0.0000 979416.93   -3.91  -16.97  -18.16  -19.76
    8500    1300 6484968  413019 -31.76739 140.08146  140.84  0.0000 979416.84   -4.27  -17.25  -18.43  -20.02
    8500    1325 6485013  413221 -31.76699 140.08360  140.59  0.0000 979416.79   -4.36  -17.32  -18.50  -20.09
    8500    1350 6484974  413462 -31.76737 140.08614  140.66  0.0000 979416.47   -4.70  -17.66  -18.84  -20.43
    8500    1375 6484989  413722 -31.76725 140.08889  140.57  0.0000 979416.18   -5.00  -17.95  -19.13  -20.72
    8500    1400 6485018  414007 -31.76702 140.09190  140.83  0.0000 979416.90   -4.18  -17.16  -18.34  -19.93
    8500    1425 6485001  414270 -31.76718 140.09468  141.94  0.0000 979417.12   -3.63  -16.71  -17.90  -19.51
    8500    1450 6485008  414502 -31.76714 140.09713  141.78  0.0000 979417.28   -3.52  -16.59  -17.78  -19.38
    8500    1475 6485021  414719 -31.76703 140.09941  141.97  0.0000 979417.27   -3.45  -16.54  -17.73  -19.34
    8500    1500 6485056  415015 -31.76674 140.10254  141.34  0.0000 979417.60   -3.30  -16.33  -17.51  -19.11
    8500    1525 6485012  415255 -31.76716 140.10507  141.34  0.0000 979417.24   -3.70  -16.72  -17.91  -19.51
    8500    1550 6485006  415473 -31.76722 140.10737  141.29  0.0000 979417.00   -3.95  -16.97  -18.16  -19.76
    8500    1575 6485011  415749 -31.76720 140.11029  142.15  0.0000 979416.50   -4.19  -17.29  -18.48  -20.09
    8500    1600 6485014  416004 -31.76720 140.11299  142.38  0.0000 979416.20   -4.42  -17.55  -18.74  -20.35
    8500    1625 6484999  416256 -31.76735 140.11564  142.40  0.0000 979416.29   -4.34  -17.46  -18.66  -20.27
    8500    1650 6484987  416502 -31.76747 140.11824  142.53  0.0000 979416.53   -4.06  -17.20  -18.40  -20.01
    8500    1675 6485016  416755 -31.76723 140.12092  143.20  0.0000 979416.38   -3.98  -17.18  -18.38  -20.00
    8500    1700 6485001  417014 -31.76738 140.12365  143.33  0.0000 979416.36   -3.98  -17.19  -18.39  -20.01
    8500    1725 6485010  417258 -31.76732 140.12622  143.25  0.0000 979416.52   -3.84  -17.04  -18.24  -19.86
    8500    1750 6484998  417488 -31.76745 140.12866  143.05  0.0000 979416.86   -3.57  -16.76  -17.96  -19.58
    8500    1775 6484994  417766 -31.76751 140.13159  143.28  0.0000 979416.54   -3.82  -17.03  -18.23  -19.85
    8500    1800 6485023  417977 -31.76725 140.13382  143.17  0.0000 979416.85   -3.53  -16.73  -17.93  -19.55
    8500    1825 6485002  418248 -31.76747 140.13668  143.76  0.0000 979416.43   -3.78  -17.03  -18.24  -19.86
    8500    1850 6485004  418510 -31.76747 140.13945  143.71  0.0000 979416.35   -3.88  -17.13  -18.33  -19.96
    8500    1875 6485012  418766 -31.76741 140.14215  143.51  0.0000 979416.67   -3.61  -16.84  -18.04  -19.66
    8500    1900 6485015  419009 -31.76741 140.14472  143.88  0.0000 979416.53   -3.64  -16.90  -18.11  -19.74
    8500    1925 6485020  419218 -31.76737 140.14692  143.83  0.0000 979416.61   -3.58  -16.83  -18.04  -19.66
    8500    1950 6485018  419502 -31.76741 140.14993  143.85  0.0000 979416.84   -3.34  -16.60  -17.80  -19.43
    8500    1975 6485007  419752 -31.76752 140.15256  144.74  0.0000 979416.48   -3.43  -16.77  -17.98  -19.62
    8500    2000 6485002  419992 -31.76759 140.15510  144.05  0.0000 979416.54   -3.59  -16.87  -18.07  -19.70
    8500    2025 6485007  420243 -31.76756 140.15775  143.94  0.0000 979415.66   -4.51  -17.77  -18.98  -20.61
    8500    2050 6485000  420501 -31.76765 140.16047  144.51  0.0000 979415.89   -4.11  -17.43  -18.64  -20.28
    8500    2075 6484985  420738 -31.76780 140.16297  144.24  0.0000 979416.61   -3.48  -16.77  -17.98  -19.61
    8500    2100 6485009  420961 -31.76759 140.16533  144.28  0.0000 979417.02   -3.04  -16.34  -17.54  -19.18
Line 8550
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8550    1150 6485480  411490 -31.76265 140.06537  140.24  0.0000 979416.04   -4.87  -17.80  -18.98  -20.56
    8550    1160 6485517  411598 -31.76232 140.06651  140.07  0.0000 979415.72   -5.22  -18.13  -19.30  -20.89
    8550    1170 6485498  411727 -31.76251 140.06787  139.94  0.0000 979415.89   -5.10  -18.00  -19.17  -20.75
    8550    1175 6485525  411759 -31.76227 140.06821  139.92  0.0000 979415.96   -5.01  -17.91  -19.08  -20.67
    8550    1180 6485519  411788 -31.76232 140.06851  139.97  0.0000 979415.95   -5.02  -17.92  -19.09  -20.68
    8550    1190 6485519  411925 -31.76234 140.06996  140.14  0.0000 979416.04   -4.88  -17.80  -18.97  -20.56
    8550    1200 6485486  411998 -31.76263 140.07073  140.16  0.0000 979416.13   -4.80  -17.72  -18.89  -20.48
    8550    1210 6485496  412072 -31.76255 140.07151  140.48  0.0000 979416.07   -4.75  -17.70  -18.88  -20.47
    8550    1220 6485524  412193 -31.76231 140.07279  141.06  0.0000 979416.01   -4.62  -17.62  -18.80  -20.40
    8550    1225 6485535  412243 -31.76222 140.07332  140.91  0.0000 979416.06   -4.61  -17.60  -18.78  -20.37
    8550    1230 6485498  412308 -31.76256 140.07401  140.93  0.0000 979415.99   -4.69  -17.68  -18.87  -20.46
    8550    1240 6485511  412408 -31.76244 140.07506  140.89  0.0000 979416.16   -4.53  -17.52  -18.70  -20.29
    8550    1250 6485505  412514 -31.76251 140.07618  141.27  0.0000 979416.62   -3.96  -16.98  -18.16  -19.76
    8550    1260 6485513  412600 -31.76244 140.07709  141.34  0.0000 979417.05   -3.50  -16.53  -17.71  -19.31
    8550    1270 6485526  412676 -31.76233 140.07789  141.17  0.0000 979417.37   -3.23  -16.24  -17.43  -19.02
    8550    1275 6485464  412761 -31.76290 140.07878  141.13  0.0000 979418.08   -2.58  -15.59  -16.77  -18.37
    8550    1280 6485533  412786 -31.76227 140.07905  140.93  0.0000 979417.98   -2.69  -15.68  -16.86  -18.45
    8550    1290 6485511  412886 -31.76248 140.08011  140.93  0.0000 979417.16   -3.52  -16.51  -17.69  -19.29
    8550    1300 6485493  413003 -31.76265 140.08134  140.73  0.0000 979417.14   -3.62  -16.59  -17.77  -19.36
    8550    1310 6485484  413069 -31.76274 140.08204  140.32  0.0000 979417.27   -3.62  -16.55  -17.73  -19.32
    8550    1320 6485485  413220 -31.76274 140.08363  139.88  0.0000 979417.13   -3.89  -16.79  -17.96  -19.54
    8550    1325 6485508  413261 -31.76253 140.08406  139.87  0.0000 979417.18   -3.84  -16.73  -17.90  -19.48
    8550    1330 6485482  413301 -31.76277 140.08449  139.87  0.0000 979417.00   -4.03  -16.92  -18.09  -19.68
    8550    1340 6485481  413396 -31.76278 140.08549  139.66  0.0000 979416.99   -4.11  -16.98  -18.15  -19.73
    8550    1350 6485509  413501 -31.76254 140.08660  139.61  0.0000 979417.45   -3.64  -16.51  -17.68  -19.26
    8550    1360 6485511  413598 -31.76253 140.08763  139.76  0.0000 979417.31   -3.74  -16.62  -17.79  -19.37
    8550    1370 6485517  413700 -31.76249 140.08871  139.53  0.0000 979417.06   -4.06  -16.92  -18.09  -19.67
    8550    1375 6485502  413764 -31.76263 140.08938  139.80  0.0000 979416.71   -4.33  -17.22  -18.39  -19.97
    8550    1380 6485506  413811 -31.76259 140.08988  140.32  0.0000 979416.43   -4.45  -17.39  -18.56  -20.15
    8550    1390 6485526  413888 -31.76242 140.09069  140.03  0.0000 979416.57   -4.38  -17.29  -18.46  -20.05
    8550    1400 6485541  413995 -31.76229 140.09182  140.23  0.0000 979416.33   -4.55  -17.48  -18.65  -20.24
    8550    1410 6485529  414119 -31.76241 140.09313  139.76  0.0000 979416.49   -4.55  -17.43  -18.60  -20.18
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8550	1420	6485533	414202	-31.76238	140.09401	139.78	0.0000	979416.85	-4.18	-17.06	-18.24	-19.82
8550	1425	6485533	414269	-31.76239	140.09471	139.99	0.0000	979417.10	-3.86	-16.76	-17.94	-19.52
8550	1430	6485523	414313	-31.76247	140.09518	140.23	0.0000	979417.12	-3.78	-16.70	-17.88	-19.46
8550	1450	6485498	414497	-31.76272	140.09711	141.01	0.0000	979417.12	-3.56	-16.56	-17.74	-19.34
8550	1475	6485501	414722	-31.76271	140.09949	141.04	0.0000	979417.28	-3.39	-16.39	-17.57	-19.17
8550	1500	6485500	414992	-31.76274	140.10235	140.80	0.0000	979417.53	-3.22	-16.20	-17.38	-18.97
8550	1525	6485527	415230	-31.76251	140.10486	140.62	0.0000	979417.59	-3.19	-16.15	-17.33	-18.92
8550	1550	6485492	415506	-31.76284	140.10777	141.03	0.0000	979416.53	-4.15	-17.15	-18.33	-19.93
8550	1575	6485490	415755	-31.76288	140.11040	140.99	0.0000	979416.60	-4.09	-17.09	-18.27	-19.87
8550	1600	6485486	416004	-31.76293	140.11303	141.59	0.0000	979416.36	-4.16	-17.21	-18.39	-20.00
8550	1625	6485489	416282	-31.76293	140.11597	141.24	0.0000	979416.59	-4.03	-17.05	-18.23	-19.83
8550	1650	6485482	416523	-31.76301	140.11850	141.57	0.0000	979416.47	-4.06	-17.11	-18.30	-19.90
8550	1675	6485491	416710	-31.76294	140.12049	141.51	0.0000	979416.95	-3.59	-16.63	-17.82	-19.42
8550	1700	6485491	417003	-31.76297	140.12357	142.19	0.0000	979416.84	-3.49	-16.60	-17.79	-19.40
8550	1725	6485507	417234	-31.76284	140.12602	142.10	0.0000	979416.63	-3.72	-16.82	-18.01	-19.61
8550	1750	6485469	417527	-31.76320	140.12911	142.70	0.0000	979416.21	-3.98	-17.13	-18.33	-19.94
8550	1775	6485492	417738	-31.76300	140.13133	142.29	0.0000	979416.59	-3.72	-16.83	-18.03	-19.64
8550	1800	6485508	417986	-31.76288	140.13395	142.41	0.0000	979416.69	-3.57	-16.70	-17.89	-19.50
8550	1825	6485505	418261	-31.76293	140.13686	142.52	0.0000	979416.97	-3.26	-16.40	-17.59	-19.20
8550	1850	6485481	418514	-31.76316	140.13953	142.84	0.0000	979416.83	-3.32	-16.48	-17.68	-19.30
8550	1875	6485502	418764	-31.76299	140.14217	143.25	0.0000	979416.42	-3.59	-16.79	-17.99	-19.61
8550	1900	6485501	419009	-31.76302	140.14476	143.11	0.0000	979416.59	-3.46	-16.65	-17.85	-19.47
8550	1925	6485527	419255	-31.76280	140.14736	143.22	0.0000	979416.78	-3.22	-16.42	-17.62	-19.24
8550	1950	6485510	419494	-31.76297	140.14987	143.47	0.0000	979416.76	-3.18	-16.40	-17.60	-19.22
8550	1975	6485526	419747	-31.76285	140.15256	143.19	0.0000	979416.61	-3.41	-16.61	-17.81	-19.43
8550	2000	6485500	420002	-31.76309	140.15524	143.09	0.0000	979416.83	-3.24	-16.43	-17.63	-19.25
8550	2025	6485525	420280	-31.76289	140.15818	142.68	0.0000	979417.00	-3.17	-16.32	-17.52	-19.13
8550	2050	6485512	420484	-31.76302	140.16033	143.24	0.0000	979417.24	-2.77	-15.97	-17.17	-18.79
8550	2075	6485522	420742	-31.76295	140.16306	143.49	0.0000	979417.12	-2.81	-16.03	-17.24	-18.86
8550	2100	6485500	420982	-31.76317	140.16559	144.03	0.0000	979417.03	-2.76	-16.03	-17.24	-18.87

Line 8600

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8600	1150	6486011	411502	-31.75786	140.06554	139.52	0.0000	979414.90	-5.85	-18.71	-19.88	-21.46
8600	1175	6486007	411733	-31.75791	140.06798	139.53	0.0000	979415.51	-5.23	-18.09	-19.26	-20.84
8600	1200	6485988	411997	-31.75811	140.07076	139.69	0.0000	979415.92	-4.79	-17.66	-18.83	-20.41
8600	1225	6486014	412249	-31.75789	140.07342	139.75	0.0000	979416.55	-4.13	-17.01	-18.18	-19.76
8600	1250	6486049	412475	-31.75760	140.07582	140.16	0.0000	979416.58	-3.95	-16.87	-18.04	-19.63
8600	1275	6486060	412757	-31.75752	140.07880	139.79	0.0000	979416.93	-3.71	-16.59	-17.76	-19.34
8600	1300	6485997	413014	-31.75811	140.08150	139.60	0.0000	979417.05	-3.69	-16.56	-17.73	-19.30
8600	1325	6485978	413249	-31.75829	140.08398	139.30	0.0000	979417.66	-3.18	-16.02	-17.19	-18.77
8600	1350	6485985	413501	-31.75825	140.08664	138.68	0.0000	979417.82	-3.22	-16.00	-17.16	-18.73
8600	1375	6485996	413777	-31.75817	140.08956	138.61	0.0000	979417.22	-3.83	-16.60	-17.76	-19.33
8600	1400	6486010	414013	-31.75806	140.09205	139.01	0.0000	979417.39	-3.53	-16.34	-17.51	-19.08
8600	1410	6486016	414079	-31.75801	140.09275	139.15	0.0000	979417.02	-3.85	-16.68	-17.85	-19.42
8600	1420	6485992	414204	-31.75824	140.09406	139.08	0.0000	979416.57	-4.34	-17.16	-18.32	-19.90
8600	1425	6486010	414261	-31.75808	140.09467	139.08	0.0000	979416.42	-4.48	-17.29	-18.46	-20.03
8600	1430	6485994	414292	-31.75823	140.09500	139.32	0.0000	979416.36	-4.47	-17.32	-18.48	-20.06
8600	1440	6486012	414398	-31.75808	140.09611	139.74	0.0000	979416.56	-4.14	-17.02	-18.19	-19.77
8600	1450	6485999	414493	-31.75820	140.09712	139.59	0.0000	979416.91	-3.84	-16.71	-17.88	-19.46
8600	1460	6486007	414600	-31.75813	140.09825	139.14	0.0000	979417.35	-3.54	-16.36	-17.53	-19.10
8600	1470	6485997	414678	-31.75823	140.09907	139.28	0.0000	979417.43	-3.42	-16.25	-17.42	-19.00
8600	1475	6485999	414748	-31.75822	140.09981	139.46	0.0000	979417.47	-3.32	-16.17	-17.34	-18.92
8600	1480	6486000	414823	-31.75821	140.10061	139.46	0.0000	979417.53	-3.26	-16.12	-17.29	-18.86
8600	1490	6486021	414876	-31.75802	140.10116	139.44	0.0000	979417.61	-3.17	-16.02	-17.19	-18.77
8600	1500	6485990	415020	-31.75832	140.10269	139.84	0.0000	979417.55	-3.13	-16.02	-17.19	-18.78
8600	1510	6486024	415125	-31.75802	140.10379	139.68	0.0000	979417.51	-3.20	-16.08	-17.25	-18.83
8600	1520	6486004	415204	-31.75820	140.10462	139.90	0.0000	979417.50	-3.16	-16.05	-17.22	-18.80
8600	1525	6486018	415275	-31.75808	140.10537	140.03	0.0000	979417.33	-3.27	-16.18	-17.35	-18.94
8600	1530	6486019	415303	-31.75808	140.10568	140.13	0.0000	979417.29	-3.28	-16.20	-17.37	-18.96
8600	1540	6486032	415410	-31.75797	140.10680	140.35	0.0000	979417.20	-3.30	-16.23	-17.41	-19.00
8600	1550	6486006	415492	-31.75821	140.10767	141.01	0.0000	979416.84	-3.47	-16.47	-17.65	-19.24
8600	1560	6485993	415599	-31.75833	140.10879	141.33	0.0000	979416.39	-3.84	-16.86	-18.05	-19.65
8600	1570	6486005	415709	-31.75824	140.10995	140.83	0.0000	979416.60	-3.77	-16.75	-17.93	-19.52
8600	1575	6485998	415762	-31.75830	140.11052	140.59	0.0000	979416.76	-3.69	-16.65	-17.83	-19.42
8600	1580	6486014	415795	-31.75816	140.11086	140.17	0.0000	979416.90	-3.66	-16.58	-17.76	-19.34
8600	1590	6485994	415897	-31.75835	140.11194	140.33	0.0000	979416.78	-3.76	-16.69	-17.87	-19.45
8600	1600	6485983	416023	-31.75846	140.11327	140.27	0.0000	979416.68	-3.88	-16.81	-17.99	-19.57
8600	1610	6486005	416086	-31.75826	140.11394	140.30	0.0000	979416.55	-3.99	-16.92	-18.10	-19.69
8600	1620	6486002	416188	-31.75830	140.11502	140.51	0.0000	979416.29	-4.18	-17.13	-18.31	-19.90
8600	1625	6486003	416262	-31.75829	140.11580	140.81	0.0000	979416.11	-4.27	-17.25	-18.43	-20.03
8600	1650	6485995	416481	-31.75838	140.11810	140.77	0.0000	979416.43	-3.97	-16.94	-18.12	-19.72
8600	1675	6485999	416744	-31.75837	140.12088	141.56	0.0000	979416.95	-3.21	-16.25	-17.44	-19.04
8600	1700	6486039	417014	-31.75802	140.12373	141.52	0.0000	979416.71	-3.44	-16.48	-17.67	-19.27
8600	1725	6486018	417280	-31.75823	140.12654	141.35	0.0000	979416.86	-3.35	-16.38	-17.57	-19.16
8600	1750	6485979	417486	-31.75859	140.12872	141.11	0.0000	979416.78	-3.53	-16.54	-17.72	-19.31
8600	1775	6485996	417740	-31.75846	140.13140	141.80	0.0000	979416.82	-3.26	-16.33	-17.52	-19.13
8600	1800	6486005	417992	-31.75840	140.13406	141.30	0.0000	979417.39	-2.85	-15.87	-17.05	-18.65
8600	1825	6485994	418259	-31.75852	140.13688	141.93	0.0000	979417.24	-2.82	-15.90	-17.09	-18.69
8600	1850	6485980	418513	-31.75866	140.13956	142.48	0.0000	979416.98	-2.92	-16.05	-17.24	-18.85
8600	1875	6486019	418723	-31.75833	140.14178	141.62	0.0000	979417.16	-2.97	-16.03	-17.21	-18.81
8600	1900	6485981	418985	-31.75869	140.14454	141.88	0.0000	979417.15	-2.93	-16.01	-17.20	-18.80
8600	1925	6485992	419256	-31.75860	140.14741	142.43	0.0000	979416.39	-3.51	-16.64	-17.83	-19.45
8600	1950	6486026	419510	-31.75831	140.15009	142.59	0.0000	979416.83	-3.01	-16.15	-17.34	-18.96

8600	1975	6486004	419743	-31.75853	140.15254	142.38	0.0000	979417.32	-2.59	-15.72	-16.91	-18.52
8600	2000	6486027	420000	-31.75834	140.15526	142.49	0.0000	979417.24	-2.63	-15.76	-16.95	-18.57
8600	2025	6486007	420249	-31.75854	140.15789	141.75	0.0000	979417.23	-2.88	-15.94	-17.13	-18.73
8600	2050	6485972	420498	-31.75887	140.16051	142.34	0.0000	979417.16	-2.79	-15.91	-17.10	-18.71
8600	2075	6485990	420732	-31.75873	140.16299	142.50	0.0000	979417.61	-2.29	-15.42	-16.61	-18.23
8600	2100	6485986	420986	-31.75878	140.16567	141.78	0.0000	979417.46	-2.67	-15.74	-16.92	-18.53

Line 8650

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8650	1150	6486481	411509	-31.75362	140.06566	138.59	0.0000	979415.02	-5.67	-18.44	-19.60	-21.17
8650	1175	6486513	411751	-31.75335	140.06821	138.86	0.0000	979414.36	-6.22	-19.02	-20.19	-21.76
8650	1200	6486519	411990	-31.75332	140.07074	139.17	0.0000	979414.71	-5.78	-18.61	-19.77	-21.35
8650	1225	6486490	412249	-31.75360	140.07347	139.15	0.0000	979416.12	-4.40	-17.22	-18.39	-19.96
8650	1250	6486516	412506	-31.75338	140.07618	139.29	0.0000	979415.90	-4.55	-17.39	-18.56	-20.14
8650	1275	6486518	412751	-31.75338	140.07877	138.61	0.0000	979415.64	-5.02	-17.80	-18.96	-20.52
8650	1300	6486479	412989	-31.75376	140.08128	138.49	0.0000	979415.86	-4.87	-17.64	-18.80	-20.37
8650	1325	6486484	413247	-31.75373	140.08400	138.33	0.0000	979416.36	-4.42	-17.17	-18.33	-19.90
8650	1350	6486514	413519	-31.75348	140.08688	137.55	0.0000	979416.41	-4.59	-17.27	-18.42	-19.98
8650	1375	6486511	413753	-31.75352	140.08935	137.36	0.0000	979416.64	-4.42	-17.08	-18.23	-19.78
8650	1400	6486503	413989	-31.75362	140.09184	138.09	0.0000	979416.76	-4.09	-16.81	-17.97	-19.53
8650	1425	6486485	414260	-31.75380	140.09470	138.19	0.0000	979416.56	-4.27	-17.01	-18.16	-19.73
8650	1450	6486499	414485	-31.75368	140.09708	138.50	0.0000	979416.76	-3.96	-16.73	-17.89	-19.45
8650	1475	6486523	414759	-31.75349	140.09997	138.29	0.0000	979417.23	-3.54	-16.28	-17.44	-19.01
8650	1500	6486522	415011	-31.75352	140.10263	138.55	0.0000	979417.24	-3.45	-16.22	-17.38	-18.95
8650	1525	6486490	415250	-31.75382	140.10516	139.27	0.0000	979417.16	-3.34	-16.17	-17.34	-18.92
8650	1550	6486473	415489	-31.75399	140.10768	139.67	0.0000	979416.83	-3.55	-16.43	-17.60	-19.18
8650	1575	6486526	415751	-31.75354	140.11045	139.38	0.0000	979416.59	-3.85	-16.69	-17.86	-19.44
8650	1600	6486498	415995	-31.75380	140.11302	139.60	0.0000	979416.53	-3.86	-16.72	-17.89	-19.47
8650	1625	6486511	416231	-31.75371	140.11551	139.92	0.0000	979416.25	-4.03	-16.93	-18.10	-19.68
8650	1650	6486519	416506	-31.75366	140.11841	140.56	0.0000	979416.21	-3.88	-16.83	-18.01	-19.60
8650	1675	6486489	416726	-31.75394	140.12074	139.96	0.0000	979417.57	-2.72	-15.62	-16.79	-18.38
8650	1700	6486509	417011	-31.75379	140.12375	140.14	0.0000	979416.90	-3.33	-16.24	-17.42	-19.00
8650	1725	6486507	417246	-31.75382	140.12623	140.47	0.0000	979417.06	-3.07	-16.02	-17.19	-18.78
8650	1750	6486502	417509	-31.75388	140.12900	140.39	0.0000	979417.02	-3.13	-16.07	-17.25	-18.84
8650	1775	6486511	417718	-31.75381	140.13121	140.62	0.0000	979416.85	-3.22	-16.18	-17.36	-18.95
8650	1800	6486498	417992	-31.75396	140.13410	140.56	0.0000	979417.12	-2.98	-15.94	-17.12	-18.71
8650	1825	6486508	418250	-31.75388	140.13683	140.95	0.0000	979418.02	-1.96	-14.96	-16.14	-17.73
8650	1850	6486478	418506	-31.75417	140.13953	142.15	0.0000	979417.63	-2.01	-15.11	-16.30	-17.91
8650	1875	6486521	418728	-31.75380	140.14187	141.27	0.0000	979417.63	-2.25	-15.27	-16.45	-18.05
8650	1900	6486510	419021	-31.75392	140.14497	141.42	0.0000	979417.48	-2.36	-15.40	-16.58	-18.18
8650	1925	6486500	419241	-31.75403	140.14729	141.23	0.0000	979417.24	-2.67	-15.69	-16.87	-18.47
8650	1950	6486501	419508	-31.75403	140.15011	141.35	0.0000	979416.99	-2.88	-15.91	-17.10	-18.69
8650	1975	6486513	419738	-31.75394	140.15254	141.85	0.0000	979416.36	-3.35	-16.42	-17.61	-19.21
8650	1976	6486492	419743	-31.75413	140.15259	141.60	0.0000	979416.46	-3.34	-16.39	-17.58	-19.18
8650	2000	6486515	419975	-31.75394	140.15504	141.26	0.0000	979417.17	-2.72	-15.74	-16.92	-18.52
8650	2025	6486515	420242	-31.75396	140.15786	141.28	0.0000	979417.64	-2.24	-15.26	-16.45	-18.05
8650	2050	6486481	420499	-31.75428	140.16057	141.61	0.0000	979417.56	-2.25	-15.30	-16.49	-18.09
8650	2075	6486512	420741	-31.75402	140.16312	141.01	0.0000	979417.65	-2.33	-15.32	-16.51	-18.10
8650	2100	6486505	420970	-31.75410	140.16554	141.67	0.0000	979417.84	-1.94	-14.99	-16.18	-17.78

Line 8700

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8700	1150	6487005	411495	-31.74889	140.06555	138.29	0.0000	979414.70	-5.70	-18.45	-19.60	-21.17
8700	1175	6487006	411753	-31.74890	140.06828	138.10	0.0000	979414.80	-5.66	-18.38	-19.54	-21.10
8700	1200	6486974	411996	-31.74921	140.07084	138.48	0.0000	979414.74	-5.63	-18.39	-19.55	-21.12
8700	1225	6487000	412248	-31.74900	140.07350	138.01	0.0000	979414.54	-5.95	-18.67	-19.83	-21.39
8700	1250	6487004	412475	-31.74897	140.07590	138.43	0.0000	979414.25	-6.11	-18.87	-20.03	-21.60
8700	1275	6487000	412762	-31.74904	140.07893	137.62	0.0000	979415.06	-5.56	-18.24	-19.40	-20.95
8700	1300	6486954	412997	-31.74947	140.08141	136.54	0.0000	979415.94	-5.04	-17.63	-18.77	-20.32
8700	1325	6486994	413261	-31.74913	140.08419	136.34	0.0000	979415.98	-5.04	-17.61	-18.75	-20.29
8700	1350	6486975	413502	-31.74932	140.08675	136.60	0.0000	979415.98	-4.98	-17.57	-18.71	-20.26
8700	1375	6486993	413725	-31.74917	140.08910	136.40	0.0000	979416.32	-4.68	-17.26	-18.40	-19.94
8700	1400	6487011	413996	-31.74903	140.09195	136.93	0.0000	979416.48	-4.35	-16.97	-18.12	-19.66
8700	1425	6487000	414234	-31.74915	140.09447	137.06	0.0000	979416.41	-4.39	-17.02	-18.17	-19.72
8700	1450	6486979	414480	-31.74935	140.09706	137.67	0.0000	979416.28	-4.35	-17.04	-18.19	-19.75
8700	1475	6486981	414729	-31.74936	140.09969	137.51	0.0000	979416.79	-3.89	-16.56	-17.71	-19.27
8700	1500	6487010	414993	-31.74911	140.10248	138.77	0.0000	979416.49	-3.78	-16.57	-17.73	-19.30
8700	1525	6487013	415226	-31.74910	140.10495	138.41	0.0000	979416.72	-3.66	-16.42	-17.58	-19.14
8700	1550	6487021	415471	-31.74905	140.10753	138.83	0.0000	979416.61	-3.64	-16.43	-17.60	-19.17
8700	1575	6486979	415726	-31.74945	140.11022	138.58	0.0000	979416.71	-3.65	-16.42	-17.58	-19.15
8700	1600	6486978	416001	-31.74948	140.11312	139.14	0.0000	979416.71	-3.48	-16.30	-17.47	-19.04
8700	1625	6486999	416264	-31.74931	140.11590	138.89	0.0000	979416.70	-3.54	-16.35	-17.51	-19.08
8700	1650	6487011	416500	-31.74922	140.11839	139.20	0.0000	979416.70	-3.44	-16.27	-17.44	-19.01
8700	1675	6487002	416744	-31.74931	140.12097	139.59	0.0000	979416.87	-3.16	-16.03	-17.20	-18.78
8700	1700	6486974	416989	-31.74959	140.12355	139.56	0.0000	979417.26	-2.81	-15.67	-16.84	-18.42
8700	1725	6487005	417252	-31.74933	140.12634	139.70	0.0000	979417.20	-2.80	-15.67	-16.84	-18.42
8700	1750	6487009	417500	-31.74930	140.12895	139.56	0.0000	979417.28	-2.76	-15.62	-16.79	-18.37
8700	1775	6487017	417745	-31.74925	140.13154	139.63	0.0000	979417.31	-2.71	-15.57	-16.74	-18.32
8700	1800	6487018	417997	-31.74927	140.13420	139.50	0.0000	979417.08	-2.97	-15.83	-17.00	-18.58
8700	1825	6487024	418263	-31.74922	140.13700	140.25	0.0000	979416.69	-3.13	-16.05	-17.23	-18.81
8700	1850	6486998	418488	-31.74948	140.13938	141.33	0.0000	979417.22	-2.29	-15.31	-16.50	-18.10

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    8700    1875 6487010  418736 -31.74939 140.14200  140.78  0.0000 979418.22   -1.45  -14.42  -15.60  -17.19
    8700    1900 6487013  418983 -31.74938 140.14461  140.86  0.0000 979417.77   -1.88  -14.86  -16.04  -17.64
    8700    1925 6487027  419266 -31.74927 140.14760  140.37  0.0000 979417.35   -2.44  -15.38  -16.55  -18.14
    8700    1950 6486991  419493 -31.74961 140.14999  140.68  0.0000 979417.37   -2.35  -15.32  -16.50  -18.09
    8700    1975 6487013  419736 -31.74943 140.15256  140.39  0.0000 979417.47   -2.33  -15.27  -16.44  -18.03
    8700    2000 6487013  419989 -31.74945 140.15523  140.39  0.0000 979417.60   -2.20  -15.14  -16.31  -17.90
    8700    2025 6486978  420233 -31.74978 140.15780  140.82  0.0000 979417.24   -2.45  -15.43  -16.61  -18.20
    8700    2050 6487014  420497 -31.74948 140.16059  140.55  0.0000 979417.68   -2.07  -15.03  -16.20  -17.79
    8700    2075 6487006  420746 -31.74956 140.16322  140.80  0.0000 979417.85   -1.83  -14.81  -15.98  -17.58
    8700    2100 6486998  421009 -31.74966 140.16599  140.41  0.0000 979418.23   -1.58  -14.52  -15.70  -17.29
Line 8750
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8750    1150 6487497  411504 -31.74446 140.06570  137.05  0.0000 979413.81   -6.61  -19.24  -20.39  -21.94
    8750    1175 6487490  411751 -31.74454 140.06830  137.00  0.0000 979413.60   -6.84  -19.47  -20.62  -22.17
    8750    1200 6487535  412007 -31.74416 140.07101  136.82  0.0000 979413.51   -6.96  -19.57  -20.71  -22.26
    8750    1225 6487494  412236 -31.74454 140.07342  137.25  0.0000 979414.10   -6.27  -18.92  -20.07  -21.62
    8750    1250 6487482  412512 -31.74467 140.07634  136.68  0.0000 979413.66   -6.89  -19.49  -20.63  -22.18
    8750    1275 6487510  412724 -31.74444 140.07857  135.66  0.0000 979413.76   -7.09  -19.60  -20.73  -22.27
    8750    1300 6487488  412992 -31.74465 140.08140  135.01  0.0000 979414.51   -6.55  -19.00  -20.13  -21.66
    8750    1325 6487494  413242 -31.74461 140.08404  135.23  0.0000 979414.62   -6.37  -18.84  -19.97  -21.50
    8750    1350 6487494  413523 -31.74463 140.08701  135.28  0.0000 979415.39   -5.59  -18.06  -19.19  -20.72
    8750    1375 6487509  413758 -31.74452 140.08949  135.54  0.0000 979415.38   -5.51  -18.01  -19.14  -20.68
    8750    1400 6487480  413987 -31.74480 140.09190  135.84  0.0000 979415.93   -4.90  -17.42  -18.56  -20.09
    8750    1425 6487490  414240 -31.74473 140.09457  136.99  0.0000 979416.16   -4.31  -16.93  -18.08  -19.63
    8750    1450 6487494  414475 -31.74471 140.09706  136.71  0.0000 979416.12   -4.43  -17.03  -18.17  -19.72
    8750    1475 6487503  414739 -31.74464 140.09984  137.39  0.0000 979415.96   -4.38  -17.04  -18.19  -19.74
    8750    1500 6487505  414973 -31.74464 140.10231  137.41  0.0000 979416.25   -4.07  -16.74  -17.89  -19.45
    8750    1525 6487478  415274 -31.74492 140.10549  137.63  0.0000 979416.55   -3.74  -16.42  -17.57  -19.13
    8750    1550 6487495  415510 -31.74478 140.10798  138.56  0.0000 979416.38   -3.60  -16.37  -17.53  -19.10
    8750    1575 6487508  415725 -31.74468 140.11025  137.76  0.0000 979416.43   -3.79  -16.49  -17.64  -19.20
    8750    1600 6487508  416002 -31.74469 140.11318  137.88  0.0000 979416.59   -3.60  -16.31  -17.46  -19.02
    8750    1625 6487489  416256 -31.74488 140.11586  138.34  0.0000 979416.86   -3.20  -15.95  -17.11  -18.68
    8750    1650 6487490  416487 -31.74490 140.11830  139.40  0.0000 979416.56   -3.18  -16.03  -17.19  -18.77
    8750    1675 6487502  416751 -31.74481 140.12109  137.70  0.0000 979417.09   -3.16  -15.85  -17.01  -18.56
    8750    1700 6487509  416945 -31.74476 140.12313  138.56  0.0000 979416.98   -3.00  -15.77  -16.93  -18.50
    8750    1725 6487510  417233 -31.74477 140.12617  138.30  0.0000 979417.66   -2.40  -15.15  -16.30  -17.87
    8750    1750 6487485  417487 -31.74501 140.12886  138.24  0.0000 979417.63   -2.47  -15.21  -16.37  -17.94
    8750    1775 6487498  417749 -31.74491 140.13162  138.69  0.0000 979417.60   -2.35  -15.13  -16.30  -17.87
    8750    1800 6487481  417989 -31.74508 140.13415  138.81  0.0000 979417.42   -2.51  -15.31  -16.47  -18.04
    8750    1825 6487509  418245 -31.74485 140.13686  139.71  0.0000 979416.88   -2.75  -15.63  -16.80  -18.38
    8750    1850 6487525  418425 -31.74471 140.13876  140.47  0.0000 979416.74   -2.65  -15.60  -16.77  -18.36
    8750    1875 6487510  418748 -31.74488 140.14217  139.46  0.0000 979416.92   -2.80  -15.65  -16.82  -18.40
    8750    1900 6487498  419008 -31.74500 140.14491  139.46  0.0000 979417.76   -1.97  -14.82  -15.99  -17.57
    8750    1925 6487482  419256 -31.74517 140.14753  139.04  0.0000 979418.09   -1.78  -14.59  -15.76  -17.33
    8750    1950 6487478  419489 -31.74522 140.14999  139.75  0.0000 979417.46   -2.19  -15.07  -16.24  -17.83
    8750    1975 6487513  419736 -31.74492 140.15259  141.01  0.0000 979417.13   -2.11  -15.11  -16.29  -17.89
    8750    2000 6487516  420003 -31.74492 140.15541  139.37  0.0000 979417.62   -2.13  -14.97  -16.14  -17.72
    8750    2025 6487517  420248 -31.74492 140.15800  140.03  0.0000 979417.39   -2.15  -15.06  -16.23  -17.81
    8750    2050 6487492  420478 -31.74516 140.16043  139.54  0.0000 979416.80   -2.91  -15.77  -16.94  -18.52
    8750    2075 6487530  420773 -31.74484 140.16355  140.24  0.0000 979416.06   -3.40  -16.33  -17.51  -19.09
Line 8800
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8800    1150 6488024  411498 -31.73970 140.06568  134.93  0.0000 979413.00   -7.69  -20.13  -21.26  -22.79
    8800    1175 6487999  411733 -31.73994 140.06816  135.67  0.0000 979412.94   -7.54  -20.05  -21.18  -22.72
    8800    1200 6488021  411987 -31.73976 140.07084  136.03  0.0000 979412.83   -7.52  -20.06  -21.20  -22.74
    8800    1225 6488012  412257 -31.73987 140.07369  136.21  0.0000 979412.88   -7.44  -19.99  -21.13  -22.67
    8800    1250 6488012  412500 -31.73989 140.07626  135.75  0.0000 979413.26   -7.19  -19.70  -20.84  -22.38
    8800    1275 6488027  412730 -31.73977 140.07868  134.52  0.0000 979413.25   -7.57  -19.97  -21.10  -22.62
    8800    1300 6488012  412979 -31.73992 140.08131  134.06  0.0000 979413.20   -7.78  -20.13  -21.26  -22.77
    8800    1325 6488025  413266 -31.73983 140.08434  134.07  0.0000 979413.29   -7.68  -20.04  -21.16  -22.68
    8800    1350 6488019  413475 -31.73990 140.08655  134.36  0.0000 979413.64   -7.24  -19.63  -20.75  -22.27
    8800    1375 6488009  413733 -31.74001 140.08927  135.11  0.0000 979414.32   -6.34  -18.80  -19.93  -21.46
    8800    1400 6487978  414008 -31.74031 140.09217  135.75  0.0000 979414.82   -5.67  -18.18  -19.32  -20.85
    8800    1425 6487976  414267 -31.74034 140.09490  136.02  0.0000 979414.84   -5.57  -18.11  -19.25  -20.78
    8800    1450 6488001  414471 -31.74014 140.09706  136.65  0.0000 979414.93   -5.27  -17.87  -19.01  -20.56
    8800    1475 6487984  414712 -31.74031 140.09960  136.47  0.0000 979415.96   -4.31  -16.89  -18.03  -19.58
    8800    1500 6487984  414990 -31.74032 140.10254  136.65  0.0000 979416.23   -3.98  -16.58  -17.72  -19.27
    8800    1525 6488003  415240 -31.74018 140.10518  137.13  0.0000 979415.86   -4.19  -16.83  -17.98  -19.53
    8800    1550 6487998  415525 -31.74025 140.10818  136.68  0.0000 979416.12   -4.07  -16.67  -17.82  -19.36
    8800    1575 6488041  415823 -31.73988 140.11133  137.00  0.0000 979416.44   -3.63  -16.25  -17.40  -18.95
    8800    1600 6487996  416028 -31.74030 140.11349  137.30  0.0000 979416.56   -3.45  -16.10  -17.25  -18.81
    8800    1625 6487997  416247 -31.74030 140.11581  137.46  0.0000 979416.57   -3.39  -16.06  -17.21  -18.76
    8800    1650 6488001  416494 -31.74029 140.11842  137.54  0.0000 979416.53   -3.41  -16.08  -17.24  -18.79
    8800    1675 6487999  416725 -31.74032 140.12085  137.49  0.0000 979416.70   -3.25  -15.93  -17.08  -18.63
    8800    1700 6487998  416971 -31.74035 140.12346  137.84  0.0000 979416.54   -3.31  -16.02  -17.17  -18.73
    8800    1725 6487994  417244 -31.74040 140.12633  137.85  0.0000 979416.77   -3.07  -15.78  -16.93  -18.49
    8800    1750 6488004  417511 -31.74033 140.12915  137.61  0.0000 979417.34   -2.58  -15.26  -16.42  -17.97
    8800    1775 6488016  417752 -31.74024 140.13170  138.10  0.0000 979417.60   -2.16  -14.88  -16.04  -17.60
    8800    1800 6488005  417999 -31.74036 140.13431  138.27  0.0000 979417.43   -2.28  -15.02  -16.18  -17.75
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8800	1825	6488003	418250	-31.74039	140.13696	139.54	0.0000	979417.15	-2.18	-15.04	-16.21	-17.79
8800	1840	6487994	418373	-31.74048	140.13825	138.81	0.0000	979417.05	-2.51	-15.30	-16.46	-18.04
8800	1850	6488004	418493	-31.74040	140.13952	138.81	0.0000	979416.98	-2.57	-15.37	-16.53	-18.10
8800	1860	6488001	418593	-31.74044	140.14057	139.24	0.0000	979416.74	-2.68	-15.52	-16.69	-18.26
8800	1870	6488015	418723	-31.74032	140.14194	138.91	0.0000	979416.77	-2.74	-15.55	-16.71	-18.28
8800	1875	6488009	418752	-31.74038	140.14225	138.86	0.0000	979416.77	-2.77	-15.57	-16.73	-18.30
8800	1880	6488015	418799	-31.74033	140.14275	139.00	0.0000	979416.68	-2.81	-15.62	-16.79	-18.36
8800	1890	6488015	418880	-31.74033	140.14360	139.29	0.0000	979416.64	-2.76	-15.60	-16.76	-18.34
8800	1900	6488023	419007	-31.74027	140.14495	139.40	0.0000	979416.76	-2.59	-15.44	-16.61	-18.19
8800	1910	6487996	419131	-31.74052	140.14625	139.61	0.0000	979416.94	-2.38	-15.24	-16.41	-17.99
8800	1920	6487984	419217	-31.74064	140.14716	139.71	0.0000	979417.23	-2.06	-14.94	-16.11	-17.69
8800	1925	6487997	419242	-31.74051	140.14743	139.90	0.0000	979417.22	-2.00	-14.90	-16.07	-17.65
8800	1930	6487988	419274	-31.74060	140.14776	139.87	0.0000	979417.42	-1.82	-14.71	-15.89	-17.47
8800	1940	6488000	419387	-31.74050	140.14895	139.24	0.0000	979417.81	-1.62	-14.45	-15.62	-17.20
8800	1950	6487989	419489	-31.74060	140.15003	139.45	0.0000	979418.00	-1.37	-14.22	-15.39	-16.97
8800	1960	6487999	419609	-31.74053	140.15130	138.81	0.0000	979418.00	-1.56	-14.36	-15.52	-17.09
8800	1970	6488006	419681	-31.74047	140.15205	138.42	0.0000	979417.97	-1.71	-14.46	-15.62	-17.19
8800	1975	6487991	419745	-31.74060	140.15273	138.50	0.0000	979417.75	-1.92	-14.68	-15.84	-17.41
8800	1980	6487993	419788	-31.74059	140.15319	138.96	0.0000	979417.45	-2.07	-14.88	-16.04	-17.61
8800	1990	6487985	419900	-31.74067	140.15436	139.19	0.0000	979417.08	-2.38	-15.21	-16.37	-17.95
8800	2000	6487990	419989	-31.74064	140.15531	139.42	0.0000	979416.97	-2.41	-15.26	-16.43	-18.01
8800	2010	6488011	420077	-31.74045	140.15624	138.82	0.0000	979417.16	-2.39	-15.19	-16.35	-17.92
8800	2020	6487999	420187	-31.74057	140.15740	138.78	0.0000	979417.21	-2.36	-15.15	-16.32	-17.89
8800	2025	6487993	420235	-31.74063	140.15790	138.81	0.0000	979417.14	-2.43	-15.23	-16.39	-17.96
8800	2030	6488020	420316	-31.74039	140.15876	139.07	0.0000	979416.94	-2.53	-15.35	-16.52	-18.09
8800	2040	6488000	420422	-31.74057	140.15988	139.16	0.0000	979416.79	-2.67	-15.50	-16.66	-18.24
8800	2050	6488008	420518	-31.74051	140.16090	139.05	0.0000	979416.92	-2.57	-15.38	-16.55	-18.12
8800	2060	6488014	420590	-31.74046	140.16166	139.12	0.0000	979416.98	-2.48	-15.30	-16.47	-18.04
8800	2070	6488010	420686	-31.74050	140.16267	139.18	0.0000	979416.88	-2.57	-15.39	-16.56	-18.13
8800	2075	6487990	420775	-31.74069	140.16360	138.99	0.0000	979416.69	-2.83	-15.64	-16.80	-18.38
8800	2080	6488013	420801	-31.74048	140.16389	138.75	0.0000	979416.83	-2.75	-15.54	-16.70	-18.27
8800	2100	6488010	421014	-31.74052	140.16613	138.77	0.0000	979416.15	-3.42	-16.21	-17.37	-18.94

Line 8850

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8850	1150	6488512	411517	-31.73530	140.06592	133.52	0.0000	979412.43	-8.34	-20.65	-21.77	-23.28
8850	1175	6488490	411759	-31.73551	140.06848	133.46	0.0000	979412.22	-8.59	-20.89	-22.01	-23.52
8850	1200	6488505	412035	-31.73540	140.07139	134.52	0.0000	979412.44	-8.03	-20.43	-21.56	-23.08
8850	1225	6488494	412259	-31.73552	140.07376	133.84	0.0000	979412.70	-7.99	-20.33	-21.45	-22.96
8850	1250	6488508	412509	-31.73541	140.07639	132.87	0.0000	979413.29	-7.69	-19.93	-21.05	-22.55
8850	1275	6488523	412723	-31.73530	140.07866	132.99	0.0000	979413.63	-7.31	-19.57	-20.68	-22.19
8850	1300	6488516	413045	-31.73538	140.08205	133.13	0.0000	979413.17	-7.73	-20.00	-21.11	-22.62
8850	1325	6488507	413286	-31.73548	140.08460	133.57	0.0000	979412.92	-7.85	-20.16	-21.28	-22.79
8850	1350	6488510	413497	-31.73547	140.08683	134.10	0.0000	979413.01	-7.60	-19.96	-21.09	-22.60
8850	1375	6488501	413756	-31.73558	140.08955	134.66	0.0000	979413.41	-7.03	-19.44	-20.57	-22.10
8850	1400	6488511	414017	-31.73550	140.09231	135.46	0.0000	979413.66	-6.53	-19.02	-20.16	-21.69
8850	1425	6488511	414247	-31.73552	140.09474	135.82	0.0000	979413.74	-6.34	-18.86	-20.00	-21.53
8850	1450	6488481	414502	-31.73581	140.09743	136.17	0.0000	979414.07	-5.92	-18.48	-19.62	-21.16
8850	1475	6488505	414768	-31.73561	140.10024	136.33	0.0000	979414.29	-5.64	-18.20	-19.34	-20.89
8850	1500	6488503	414957	-31.73564	140.10223	136.13	0.0000	979414.79	-5.20	-17.75	-18.89	-20.43
8850	1525	6488459	415254	-31.73606	140.10537	136.20	0.0000	979415.45	-4.56	-17.11	-18.25	-19.79
8850	1550	6488515	415500	-31.73558	140.10797	136.13	0.0000	979415.50	-4.48	-17.03	-18.17	-19.71
8850	1575	6488506	415777	-31.73567	140.11089	136.18	0.0000	979416.03	-3.95	-16.50	-17.64	-19.18
8850	1600	6488493	416027	-31.73581	140.11353	136.40	0.0000	979416.30	-3.63	-16.20	-17.34	-18.89
8850	1625	6488503	416252	-31.73573	140.11591	137.03	0.0000	979416.42	-3.30	-15.93	-17.08	-18.63
8850	1650	6488525	416497	-31.73556	140.11849	136.94	0.0000	979416.53	-3.20	-15.83	-16.97	-18.52
8850	1675	6488508	416751	-31.73573	140.12117	137.05	0.0000	979416.76	-2.96	-15.59	-16.74	-18.29
8850	1700	6488492	417008	-31.73590	140.12388	136.95	0.0000	979416.73	-3.03	-15.65	-16.80	-18.35
8850	1725	6488513	417257	-31.73572	140.12652	137.10	0.0000	979416.28	-3.42	-16.05	-17.20	-18.75
8850	1750	6488494	417493	-31.73591	140.12900	136.93	0.0000	979416.78	-2.99	-15.61	-16.76	-18.30
8850	1775	6488487	417737	-31.73599	140.13158	137.22	0.0000	979418.14	-1.55	-14.20	-15.35	-16.90
8850	1800	6488518	418018	-31.73573	140.13455	137.78	0.0000	979417.50	-1.99	-14.69	-15.85	-17.40
8850	1825	6488500	418216	-31.73590	140.13663	138.39	0.0000	979417.04	-2.27	-15.03	-16.19	-17.75
8850	1850	6488468	418527	-31.73622	140.13991	137.74	0.0000	979417.08	-2.47	-15.16	-16.32	-17.88
8850	1875	6488526	418760	-31.73571	140.14238	138.18	0.0000	979416.58	-2.79	-15.53	-16.68	-18.25
8850	1900	6488502	419011	-31.73595	140.14503	137.99	0.0000	979416.57	-2.88	-15.60	-16.75	-18.32
8850	1925	6488518	419264	-31.73582	140.14769	138.44	0.0000	979416.61	-2.69	-15.45	-16.61	-18.17
8850	1950	6488508	419519	-31.73593	140.15039	137.84	0.0000	979417.49	-2.00	-14.70	-15.86	-17.42
8850	1975	6488499	419768	-31.73603	140.15302	137.87	0.0000	979418.52	-0.97	-13.68	-14.83	-16.39
8850	2000	6488493	419983	-31.73610	140.15529	138.21	0.0000	979418.15	-1.24	-13.98	-15.14	-16.70
8850	2025	6488511	420241	-31.73595	140.15802	138.24	0.0000	979417.33	-2.04	-14.78	-15.94	-17.50
8850	2050	6488526	420476	-31.73583	140.16049	138.53	0.0000	979417.07	-2.20	-14.96	-16.13	-17.69
8850	2075	6488517	420757	-31.73594	140.16346	137.89	0.0000	979416.75	-2.72	-15.43	-16.59	-18.15
8850	2100	6488470	421013	-31.73637	140.16615	138.40	0.0000	979416.25	-3.10	-15.85	-17.01	-18.58

Line 8875

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
8875	1650	6488718	416479	-31.73382	140.11831	136.25	0.0000	979416.53	-3.28	-15.83	-16.98	-18.52
8875	1660	6488731	416632	-31.73371	140.11994	135.71	0.0000	979416.54	-3.43	-15.94	-17.08	-18.61
8875	1670	6488770	416739	-31.73337	140.12107	136.42	0.0000	979416.15	-3.57	-16.15	-17.29	-18.83
8875	1680	6488751	416787	-31.73354	140.12158	136.57	0.0000	979416.24	-3.45	-16.03	-17.18	-18.72

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    8875    1690 6488778  416870 -31.73330 140.12246  136.42  0.0000 979416.41   -3.31  -15.88  -17.03  -18.57
    8875    1700 6488763  417034 -31.73345 140.12418  136.90  0.0000 979416.59   -2.99  -15.61  -16.75  -18.30
    8875    1710 6488744  417097 -31.73363 140.12484  136.47  0.0000 979416.69   -3.03  -15.61  -16.75  -18.30
    8875    1720 6488762  417210 -31.73347 140.12603  136.54  0.0000 979416.69   -3.01  -15.59  -16.74  -18.28
    8875    1730 6488742  417288 -31.73366 140.12686  136.64  0.0000 979416.64   -3.04  -15.64  -16.78  -18.33
    8875    1740 6488745  417393 -31.73364 140.12797  137.45  0.0000 979416.55   -2.87  -15.54  -16.69  -18.25
    8875    1750 6488786  417498 -31.73328 140.12908  136.63  0.0000 979416.88   -2.77  -15.36  -16.51  -18.05
    8875    1760 6488750  417600 -31.73361 140.13015  136.91  0.0000 979417.02   -2.57  -15.19  -16.34  -17.89
    8875    1770 6488752  417695 -31.73360 140.13116  137.05  0.0000 979417.40   -2.14  -14.78  -15.92  -17.47
    8875    1780 6488744  417815 -31.73368 140.13243  136.99  0.0000 979418.31   -1.26  -13.89  -15.04  -16.59
    8875    1790 6488716  417907 -31.73394 140.13339  137.36  0.0000 979418.19   -1.29  -13.95  -15.10  -16.65
    8875    1800 6488761  418024 -31.73354 140.13463  137.54  0.0000 979417.40   -1.99  -14.67  -15.82  -17.38
    8875    1810 6488770  418120 -31.73346 140.13565  137.66  0.0000 979417.11   -2.24  -14.92  -16.08  -17.63
    8875    1820 6488756  418210 -31.73360 140.13660  137.73  0.0000 979416.86   -2.48  -15.17  -16.33  -17.89
    8875    1830 6488741  418291 -31.73374 140.13745  137.61  0.0000 979417.04   -2.34  -15.03  -16.18  -17.74
    8875    1840 6488762  418408 -31.73355 140.13868  137.55  0.0000 979417.45   -1.94  -14.62  -15.77  -17.33
    8875    1850 6488749  418513 -31.73368 140.13979  137.61  0.0000 979417.29   -2.09  -14.78  -15.93  -17.49
    8875    1860 6488778  418603 -31.73343 140.14074  137.89  0.0000 979417.12   -2.15  -14.86  -16.01  -17.57
    8875    1870 6488755  418712 -31.73365 140.14189  138.28  0.0000 979416.75   -2.42  -15.17  -16.33  -17.89
    8875    1880 6488753  418807 -31.73367 140.14289  138.06  0.0000 979416.64   -2.60  -15.33  -16.48  -18.05
    8875    1890 6488775  418929 -31.73348 140.14418  137.75  0.0000 979416.44   -2.88  -15.57  -16.73  -18.28
    8875    1900 6488732  419013 -31.73387 140.14506  137.86  0.0000 979416.44   -2.87  -15.58  -16.74  -18.29
    8875    1910 6488778  419110 -31.73346 140.14609  137.68  0.0000 979416.48   -2.85  -15.55  -16.70  -18.26
    8875    1920 6488782  419198 -31.73344 140.14702  137.25  0.0000 979416.61   -2.86  -15.51  -16.66  -18.22
Line 8900
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8900    1150 6489005  411493 -31.73085 140.06572  131.43  0.0000 979412.12   -8.94  -21.05  -22.16  -23.64
    8900    1175 6489026  411737 -31.73069 140.06830  131.27  0.0000 979412.49   -8.60  -20.70  -21.80  -23.29
    8900    1200 6489012  411982 -31.73082 140.07088  131.58  0.0000 979412.52   -8.49  -20.62  -21.72  -23.21
    8900    1225 6488975  412255 -31.73118 140.07376  131.75  0.0000 979412.65   -8.33  -20.48  -21.58  -23.07
    8900    1250 6488997  412514 -31.73100 140.07649  131.95  0.0000 979413.23   -7.68  -19.84  -20.95  -22.44
    8900    1275 6489005  412750 -31.73094 140.07898  132.07  0.0000 979413.33   -7.54  -19.71  -20.82  -22.31
    8900    1300 6489017  412994 -31.73086 140.08156  132.85  0.0000 979413.05   -7.57  -19.82  -20.93  -22.44
    8900    1325 6489009  413257 -31.73096 140.08434  133.53  0.0000 979412.70   -7.72  -20.03  -21.15  -22.66
    8900    1350 6489005  413492 -31.73100 140.08682  133.94  0.0000 979412.34   -7.96  -20.30  -21.43  -22.94
    8900    1375 6489042  413747 -31.73069 140.08951  133.32  0.0000 979412.50   -7.96  -20.25  -21.37  -22.87
    8900    1400 6489003  413997 -31.73106 140.09215  133.96  0.0000 979412.80   -7.49  -19.84  -20.96  -22.48
    8900    1425 6488981  414251 -31.73128 140.09483  135.50  0.0000 979413.87   -5.96  -18.45  -19.59  -21.12
    8900    1450 6488988  414482 -31.73123 140.09727  134.60  0.0000 979414.35   -5.76  -18.17  -19.29  -20.82
    8900    1475 6488999  414750 -31.73115 140.10009  135.66  0.0000 979413.90   -5.88  -18.38  -19.52  -21.06
    8900    1500 6488997  414986 -31.73119 140.10259  135.12  0.0000 979413.98   -5.96  -18.42  -19.55  -21.08
    8900    1525 6489015  415251 -31.73105 140.10538  135.53  0.0000 979414.31   -5.50  -17.99  -19.12  -20.66
    8900    1550 6488986  415489 -31.73132 140.10789  135.81  0.0000 979414.58   -5.16  -17.68  -18.82  -20.36
    8900    1575 6489027  415731 -31.73097 140.11045  135.22  0.0000 979414.59   -5.31  -17.77  -18.90  -20.43
    8900    1600 6489020  416023 -31.73106 140.11353  136.07  0.0000 979415.48   -4.16  -16.70  -17.84  -19.38
    8900    1625 6489016  416272 -31.73112 140.11615  136.06  0.0000 979416.11   -3.54  -16.08  -17.22  -18.76
    8900    1650 6489003  416509 -31.73125 140.11866  135.49  0.0000 979416.41   -3.43  -15.91  -17.05  -18.58
    8900    1675 6489006  416731 -31.73123 140.12100  135.43  0.0000 979416.47   -3.39  -15.87  -17.00  -18.54
    8900    1700 6489018  417022 -31.73115 140.12408  136.41  0.0000 979416.51   -3.03  -15.61  -16.75  -18.29
    8900    1725 6489048  417277 -31.73090 140.12677  136.26  0.0000 979416.80   -2.77  -15.33  -16.47  -18.01
    8900    1750 6489018  417482 -31.73119 140.12894  136.65  0.0000 979416.73   -2.74  -15.34  -16.48  -18.03
    8900    1775 6488994  417727 -31.73141 140.13152  136.24  0.0000 979417.73   -1.89  -14.45  -15.59  -17.13
    8900    1800 6489007  417988 -31.73132 140.13428  136.67  0.0000 979417.22   -2.26  -14.85  -16.00  -17.54
    8900    1825 6489009  418227 -31.73132 140.13680  137.10  0.0000 979416.78   -2.57  -15.21  -16.36  -17.91
    8900    1850 6488994  418534 -31.73148 140.14003  137.56  0.0000 979417.24   -1.98  -14.66  -15.81  -17.37
    8900    1875 6489020  418751 -31.73125 140.14233  137.70  0.0000 979416.77   -2.38  -15.07  -16.23  -17.79
    8900    1900 6489000  419013 -31.73146 140.14509  137.28  0.0000 979416.42   -2.88  -15.54  -16.69  -18.24
    8900    1925 6489045  419256 -31.73106 140.14766  136.87  0.0000 979416.63   -2.76  -15.38  -16.52  -18.07
    8900    1950 6488995  419523 -31.73153 140.15048  137.34  0.0000 979416.66   -2.63  -15.29  -16.44  -17.99
    8900    1975 6489009  419745 -31.73142 140.15282  137.88  0.0000 979416.99   -2.12  -14.83  -15.99  -17.55
    8900    2000 6488980  419998 -31.73171 140.15548  138.00  0.0000 979418.51   -0.59  -13.31  -14.46  -16.02
    8900    2025 6489017  420273 -31.73139 140.15839  137.26  0.0000 979419.39    0.09  -12.56  -13.71  -15.27
    8900    2050 6488991  420490 -31.73164 140.16068  137.59  0.0000 979418.22   -1.00  -13.68  -14.83  -16.39
    8900    2075 6489026  420783 -31.73135 140.16377  136.53  0.0000 979417.38   -2.14  -14.72  -15.87  -17.41
    8900    2100 6489000  420995 -31.73159 140.16601  136.78  0.0000 979417.32   -2.15  -14.75  -15.90  -17.45
Line 8950
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    8950    1150 6489530  411502 -31.72612 140.06586  130.08  0.0000 979412.58   -8.51  -20.50  -21.59  -23.06
    8950    1175 6489502  411770 -31.72639 140.06869  130.56  0.0000 979412.59   -8.37  -20.41  -21.50  -22.98
    8950    1200 6489493  412005 -31.72649 140.07117  130.91  0.0000 979412.58   -8.29  -20.35  -21.45  -22.93
    8950    1225 6489495  412267 -31.72649 140.07393  131.22  0.0000 979412.50   -8.27  -20.37  -21.47  -22.95
    8950    1250 6489509  412484 -31.72638 140.07622  131.46  0.0000 979412.65   -8.03  -20.15  -21.25  -22.74
    8950    1275 6489470  412758 -31.72675 140.07911  132.82  0.0000 979412.50   -7.79  -20.04  -21.15  -22.65
    8950    1300 6489485  412984 -31.72664 140.08149  132.92  0.0000 979412.76   -7.50  -19.75  -20.87  -22.37
    8950    1325 6489509  413273 -31.72644 140.08455  132.98  0.0000 979412.58   -7.64  -19.90  -21.01  -22.52
    8950    1350 6489466  413470 -31.72685 140.08662  133.19  0.0000 979412.55   -7.64  -19.92  -21.04  -22.54
    8950    1375 6489490  413746 -31.72665 140.08954  133.31  0.0000 979413.05   -7.09  -19.37  -20.49  -22.00
    8950    1400 6489515  413971 -31.72644 140.09191  133.31  0.0000 979412.94   -7.18  -19.47  -20.58  -22.09
    8950    1425 6489495  414247 -31.72664 140.09482  133.40  0.0000 979414.15   -5.96  -18.26  -19.38  -20.88
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8950	1450	6489511	414489	-31.72652	140.09739	133.67	0.0000	979414.07	-5.95	-18.27	-19.39	-20.90
8950	1475	6489486	414730	-31.72676	140.09993	134.06	0.0000	979413.22	-6.70	-19.06	-20.18	-21.69
8950	1500	6489503	415014	-31.72662	140.10293	135.06	0.0000	979413.22	-6.37	-18.82	-19.95	-21.48
8950	1525	6489477	415239	-31.72688	140.10529	134.67	0.0000	979414.09	-5.65	-18.06	-19.19	-20.72
8950	1550	6489505	415466	-31.72665	140.10769	134.88	0.0000	979413.53	-6.12	-18.56	-19.69	-21.21
8950	1575	6489492	415717	-31.72678	140.11034	135.12	0.0000	979413.22	-6.37	-18.83	-19.96	-21.49
8950	1600	6489489	416014	-31.72682	140.11347	136.59	0.0000	979414.00	-5.14	-17.73	-18.88	-20.42
8950	1625	6489517	416237	-31.72659	140.11583	134.90	0.0000	979415.50	-4.14	-16.57	-17.70	-19.23
8950	1650	6489489	416491	-31.72686	140.11851	134.27	0.0000	979416.16	-3.70	-16.07	-17.20	-18.72
8950	1675	6489508	416737	-31.72671	140.12111	134.48	0.0000	979416.15	-3.63	-16.03	-17.15	-18.67
8950	1700	6489469	417006	-31.72708	140.12394	135.30	0.0000	979416.63	-2.93	-15.40	-16.53	-18.06
8950	1725	6489496	417250	-31.72685	140.12652	135.16	0.0000	979416.75	-2.84	-15.29	-16.43	-17.96
8950	1750	6489505	417511	-31.72679	140.12928	136.01	0.0000	979416.57	-2.75	-15.28	-16.42	-17.96
8950	1775	6489500	417762	-31.72685	140.13193	135.60	0.0000	979416.51	-2.94	-15.44	-16.58	-18.11
8950	1800	6489508	418021	-31.72680	140.13466	136.37	0.0000	979416.25	-2.95	-15.52	-16.66	-18.21
8950	1825	6489496	418262	-31.72693	140.13720	136.79	0.0000	979416.07	-3.01	-15.62	-16.77	-18.31
8950	1850	6489484	418480	-31.72705	140.13950	136.59	0.0000	979416.16	-3.00	-15.59	-16.73	-18.28
8950	1875	6489495	418746	-31.72697	140.14231	136.69	0.0000	979416.07	-3.05	-15.65	-16.79	-18.34
8950	1900	6489504	419002	-31.72690	140.14501	136.44	0.0000	979416.46	-2.74	-15.31	-16.46	-18.00
8950	1925	6489493	419257	-31.72702	140.14771	136.45	0.0000	979416.70	-2.50	-15.08	-16.22	-17.76
8950	1950	6489498	419489	-31.72699	140.15016	136.84	0.0000	979417.35	-1.73	-14.34	-15.49	-17.04
8950	1975	6489522	419743	-31.72680	140.15284	137.39	0.0000	979418.11	-0.78	-13.45	-14.60	-16.15
8950	2000	6489503	419997	-31.72699	140.15552	137.34	0.0000	979418.77	-0.16	-12.82	-13.97	-15.52
8950	2025	6489506	420226	-31.72697	140.15794	136.44	0.0000	979419.56	0.36	-12.21	-13.36	-14.90
8950	2050	6489500	420513	-31.72705	140.16096	137.37	0.0000	979419.57	0.65	-12.01	-13.16	-14.72
8950	2075	6489497	420725	-31.72709	140.16320	135.52	0.0000	979419.32	-0.18	-12.67	-13.80	-15.33
8950	2100	6489469	420983	-31.72736	140.16592	135.73	0.0000	979417.78	-1.67	-14.18	-15.32	-16.85

Line 9000
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9000	1150	6490001	411511	-31.72187	140.06600	129.81	0.0000	979412.32	-8.51	-20.48	-21.57	-23.03
9000	1175	6490000	411761	-31.72189	140.06864	130.09	0.0000	979412.52	-8.22	-20.22	-21.31	-22.78
9000	1200	6489983	412037	-31.72207	140.07154	130.43	0.0000	979412.64	-8.02	-20.04	-21.13	-22.61
9000	1225	6489999	412268	-31.72195	140.07398	131.00	0.0000	979412.71	-7.76	-19.83	-20.93	-22.41
9000	1250	6490012	412486	-31.72185	140.07629	132.48	0.0000	979412.71	-7.30	-19.51	-20.62	-22.12
9000	1275	6490013	412722	-31.72185	140.07878	131.89	0.0000	979412.80	-7.39	-19.55	-20.65	-22.15
9000	1300	6490021	412954	-31.72180	140.08122	131.64	0.0000	979413.01	-7.25	-19.38	-20.49	-21.97
9000	1325	6490016	413262	-31.72187	140.08448	131.76	0.0000	979412.93	-7.30	-19.44	-20.55	-22.04
9000	1350	6490016	413496	-31.72189	140.08695	132.11	0.0000	979413.06	-7.06	-19.24	-20.34	-21.84
9000	1375	6490027	413754	-31.72180	140.08967	132.56	0.0000	979412.86	-7.12	-19.34	-20.45	-21.95
9000	1400	6489999	414003	-31.72207	140.09230	132.88	0.0000	979412.67	-7.23	-19.48	-20.59	-22.09
9000	1425	6490034	414253	-31.72178	140.09494	132.56	0.0000	979414.14	-5.84	-18.05	-19.16	-20.66
9000	1450	6489987	414512	-31.72223	140.09767	132.81	0.0000	979414.22	-5.72	-17.96	-19.07	-20.57
9000	1475	6490011	414745	-31.72203	140.10012	133.18	0.0000	979414.28	-5.53	-17.80	-18.92	-20.43
9000	1500	6489997	415008	-31.72217	140.10290	134.21	0.0000	979414.24	-5.26	-17.63	-18.75	-20.27
9000	1525	6490008	415237	-31.72209	140.10532	134.18	0.0000	979413.43	-6.07	-18.44	-19.57	-21.08
9000	1550	6489966	415491	-31.72248	140.10800	134.23	0.0000	979413.22	-6.29	-18.67	-19.79	-21.31
9000	1575	6489985	415737	-31.72234	140.11059	134.83	0.0000	979413.34	-5.98	-18.40	-19.53	-21.06
9000	1600	6490007	415989	-31.72216	140.11325	134.59	0.0000	979414.12	-5.26	-17.66	-18.79	-20.31
9000	1625	6490023	416203	-31.72202	140.11551	133.29	0.0000	979415.22	-4.55	-16.84	-17.95	-19.46
9000	1650	6490000	416492	-31.72225	140.11857	133.31	0.0000	979415.54	-4.25	-16.53	-17.65	-19.16
9000	1675	6490005	416756	-31.72223	140.12135	134.08	0.0000	979415.77	-3.77	-16.13	-17.25	-18.77
9000	1700	6490000	417013	-31.72229	140.12407	134.03	0.0000	979416.40	-3.17	-15.52	-16.64	-18.16
9000	1725	6489994	417273	-31.72236	140.12681	134.16	0.0000	979416.72	-2.81	-15.18	-16.30	-17.82
9000	1750	6490005	417502	-31.72228	140.12922	134.61	0.0000	979416.59	-2.80	-15.20	-16.33	-17.85
9000	1775	6489981	417747	-31.72252	140.13181	135.17	0.0000	979416.20	-3.03	-15.48	-16.62	-18.15
9000	1800	6490011	418014	-31.72227	140.13463	135.31	0.0000	979416.20	-2.97	-15.44	-16.58	-18.11
9000	1825	6489979	418258	-31.72257	140.13720	136.38	0.0000	979416.00	-2.87	-15.44	-16.58	-18.12
9000	1850	6490006	418498	-31.72234	140.13974	136.19	0.0000	979416.10	-2.80	-15.35	-16.50	-18.04
9000	1875	6490015	418723	-31.72227	140.14211	136.02	0.0000	979416.42	-2.53	-15.07	-16.21	-17.74
9000	1900	6489971	419014	-31.72270	140.14518	135.85	0.0000	979417.14	-1.89	-14.41	-15.55	-17.09
9000	1925	6490000	419261	-31.72245	140.14779	136.09	0.0000	979418.18	-0.76	-13.31	-14.45	-15.99
9000	1950	6490004	419506	-31.72243	140.15037	135.50	0.0000	979418.92	-0.20	-12.69	-13.82	-15.36
9000	1975	6490003	419783	-31.72246	140.15330	136.08	0.0000	979419.14	0.19	-12.35	-13.49	-15.03
9000	2000	6490017	419996	-31.72235	140.15555	136.05	0.0000	979418.99	0.04	-12.50	-13.64	-15.17
9000	2025	6490008	420255	-31.72245	140.15828	135.20	0.0000	979418.24	-0.98	-13.44	-14.57	-16.10
9000	2050	6489989	420490	-31.72264	140.16076	135.17	0.0000	979417.84	-1.40	-13.86	-14.99	-16.52
9000	2075	6489989	420758	-31.72265	140.16359	134.52	0.0000	979417.52	-1.92	-14.32	-15.44	-16.96
9000	2100	6489989	421020	-31.72267	140.16636	135.06	0.0000	979417.52	-1.75	-14.20	-15.33	-16.86

Line 9050
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9050	1050	6490493	410505	-31.71735	140.05542	128.28	0.0000	979412.57	-8.37	-20.19	-21.27	-22.72
9050	1075	6490483	410748	-31.71746	140.05799	128.60	0.0000	979411.99	-8.86	-20.72	-21.79	-23.25
9050	1100	6490488	411044	-31.71744	140.06111	128.53	0.0000	979411.85	-9.02	-20.87	-21.94	-23.40
9050	1125	6490482	411269	-31.71751	140.06348	128.82	0.0000	979412.06	-8.72	-20.60	-21.68	-23.13
9050	1150	6490504	411513	-31.71733	140.06606	128.96	0.0000	979411.97	-8.76	-20.65	-21.73	-23.19
9050	1175	6490491	411753	-31.71747	140.06859	129.53	0.0000	979412.24	-8.32	-20.26	-21.35	-22.81
9050	1200	6490508	411991	-31.71733	140.07111	129.79	0.0000	979412.40	-8.07	-20.03	-21.12	-22.59
9050	1225	6490506	412238	-31.71737	140.07371	130.69	0.0000	979412.31	-7.88	-19.93	-21.03	-22.50
9050	1250	6490503	412496	-31.71741	140.07643	130.87	0.0000	979412.55	-7.59	-19.65	-20.75	-22.23

9050	1275	6490479	412762	-31.71766	140.07924	130.60	0.0000	979412.92	-7.33	-19.37	-20.46	-21.94
9050	1300	6490485	413008	-31.71762	140.08184	130.26	0.0000	979413.13	-7.22	-19.23	-20.32	-21.79
9050	1325	6490507	413229	-31.71744	140.08417	130.64	0.0000	979413.47	-6.75	-18.79	-19.88	-21.36
9050	1350	6490493	413496	-31.71758	140.08699	131.03	0.0000	979413.24	-6.87	-18.95	-20.05	-21.53
9050	1375	6490484	413764	-31.71769	140.08981	131.38	0.0000	979412.92	-7.09	-19.20	-20.30	-21.79
9050	1400	6490491	413988	-31.71764	140.09218	131.57	0.0000	979412.91	-7.03	-19.16	-20.26	-21.75
9050	1425	6490502	414218	-31.71756	140.09461	131.98	0.0000	979412.35	-7.46	-19.63	-20.73	-22.23
9050	1450	6490522	414502	-31.71739	140.09761	132.62	0.0000	979413.30	-6.30	-18.52	-19.63	-21.13
9050	1475	6490497	414745	-31.71764	140.10017	133.09	0.0000	979413.74	-5.74	-18.01	-19.12	-20.63
9050	1500	6490501	414995	-31.71762	140.10281	133.29	0.0000	979413.81	-5.61	-17.89	-19.01	-20.52
9050	1525	6490494	415256	-31.71770	140.10557	133.32	0.0000	979413.70	-5.71	-18.00	-19.12	-20.62
9050	1550	6490539	415508	-31.71732	140.10823	133.07	0.0000	979413.30	-6.15	-18.42	-19.53	-21.04
9050	1575	6490495	415760	-31.71774	140.11088	133.52	0.0000	979413.25	-6.10	-18.41	-19.53	-21.04
9050	1600	6490483	416012	-31.71786	140.11354	133.85	0.0000	979413.78	-5.49	-17.82	-18.94	-20.46
9050	1625	6490480	416291	-31.71790	140.11649	132.76	0.0000	979414.65	-4.95	-17.19	-18.30	-19.81
9050	1650	6490482	416522	-31.71791	140.11892	132.34	0.0000	979415.39	-4.34	-16.53	-17.64	-19.14
9050	1675	6490517	416756	-31.71761	140.12140	132.97	0.0000	979415.38	-4.13	-16.39	-17.50	-19.01
9050	1700	6490488	417019	-31.71789	140.12417	133.36	0.0000	979415.91	-3.51	-15.80	-16.92	-18.42
9050	1725	6490496	417260	-31.71783	140.12671	133.49	0.0000	979416.14	-3.23	-15.53	-16.65	-18.16
9050	1750	6490512	417508	-31.71770	140.12933	133.65	0.0000	979415.92	-3.39	-15.71	-16.83	-18.34
9050	1775	6490488	417760	-31.71794	140.13199	134.88	0.0000	979416.51	-2.44	-14.87	-16.00	-17.53
9050	1800	6490505	417992	-31.71781	140.13444	135.63	0.0000	979417.20	-1.51	-14.01	-15.15	-16.68
9050	1825	6490516	418232	-31.71772	140.13698	135.67	0.0000	979417.59	-1.10	-13.60	-14.74	-16.27
9050	1850	6490505	418510	-31.71784	140.13990	135.80	0.0000	979417.83	-0.82	-13.34	-14.48	-16.01
9050	1875	6490513	418738	-31.71779	140.14231	135.33	0.0000	979418.21	-0.59	-13.06	-14.20	-15.73
9050	1900	6490513	418978	-31.71781	140.14484	134.88	0.0000	979418.50	-0.44	-12.87	-14.00	-15.53
9050	1925	6490509	419241	-31.71785	140.14762	135.42	0.0000	979418.42	-0.36	-12.84	-13.98	-15.51
9050	1950	6490521	419506	-31.71777	140.15042	134.85	0.0000	979417.87	-1.07	-13.50	-14.63	-16.16
9050	1975	6490491	419754	-31.71806	140.15303	134.82	0.0000	979417.26	-1.72	-14.15	-15.28	-16.80
9050	2000	6490498	419971	-31.71801	140.15532	134.49	0.0000	979417.13	-1.94	-14.34	-15.47	-16.99
9050	2025	6490472	420241	-31.71826	140.15817	133.49	0.0000	979417.83	-1.57	-13.87	-14.99	-16.50
9050	2050	6490511	420519	-31.71793	140.16111	133.65	0.0000	979417.60	-1.73	-14.05	-15.17	-16.68
9050	2075	6490509	420748	-31.71796	140.16353	133.77	0.0000	979416.95	-2.34	-14.67	-15.79	-17.31
9050	2100	6490507	420986	-31.71800	140.16604	134.05	0.0000	979416.80	-2.41	-14.77	-15.89	-17.41

Line 9100

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9100	1050	6491003	410482	-31.71275	140.05523	128.32	0.0000	979412.06	-8.50	-20.32	-21.40	-22.85
9100	1075	6490991	410761	-31.71288	140.05817	128.38	0.0000	979412.57	-7.97	-19.81	-20.88	-22.34
9100	1100	6491014	410979	-31.71269	140.06047	127.95	0.0000	979412.74	-7.92	-19.72	-20.79	-22.24
9100	1125	6490990	411267	-31.71293	140.06351	128.22	0.0000	979412.47	-8.13	-19.95	-21.03	-22.48
9100	1150	6491018	411492	-31.71270	140.06589	128.93	0.0000	979412.22	-8.15	-20.03	-21.11	-22.57
9100	1175	6491025	411739	-31.71265	140.06850	129.22	0.0000	979412.06	-8.21	-20.12	-21.20	-22.67
9100	1200	6491018	412005	-31.71273	140.07131	130.07	0.0000	979412.36	-7.66	-19.65	-20.74	-22.21
9100	1225	6491006	412257	-31.71286	140.07396	130.25	0.0000	979412.66	-7.30	-19.31	-20.40	-21.87
9100	1250	6491005	412506	-31.71289	140.07658	131.16	0.0000	979412.53	-7.16	-19.24	-20.34	-21.83
9100	1275	6490992	412742	-31.71303	140.07908	130.63	0.0000	979412.82	-7.05	-19.09	-20.18	-21.66
9100	1300	6490996	413012	-31.71301	140.08192	130.07	0.0000	979412.96	-7.07	-19.06	-20.15	-21.62
9100	1325	6490983	413262	-31.71314	140.08457	129.82	0.0000	979413.47	-6.65	-18.61	-19.70	-21.17
9100	1350	6491011	413526	-31.71291	140.08736	130.42	0.0000	979413.46	-6.46	-18.48	-19.58	-21.05
9100	1375	6491013	413757	-31.71291	140.08979	130.87	0.0000	979412.92	-6.86	-18.93	-20.02	-21.50
9100	1400	6491001	414004	-31.71304	140.09240	131.09	0.0000	979412.54	-7.18	-19.26	-20.36	-21.84
9100	1425	6490999	414271	-31.71307	140.09521	131.59	0.0000	979412.25	-7.32	-19.45	-20.55	-22.04
9100	1450	6490995	414503	-31.71313	140.09766	131.98	0.0000	979413.04	-6.42	-18.58	-19.69	-21.18
9100	1475	6490997	414731	-31.71313	140.10007	132.91	0.0000	979413.42	-5.74	-17.99	-19.11	-20.61
9100	1500	6490996	414999	-31.71316	140.10290	132.77	0.0000	979413.55	-5.66	-17.90	-19.01	-20.52
9100	1525	6491020	415234	-31.71296	140.10538	132.28	0.0000	979413.74	-5.61	-17.81	-18.92	-20.41
9100	1550	6491007	415506	-31.71310	140.10825	132.36	0.0000	979413.27	-6.07	-18.27	-19.38	-20.87
9100	1575	6491008	415751	-31.71310	140.11084	132.82	0.0000	979413.04	-6.16	-18.40	-19.51	-21.01
9100	1600	6491016	415995	-31.71305	140.11341	131.96	0.0000	979413.76	-5.69	-17.86	-18.96	-20.45
9100	1625	6491006	416259	-31.71316	140.11619	131.95	0.0000	979414.19	-5.27	-17.44	-18.54	-20.03
9100	1650	6491024	416480	-31.71301	140.11853	132.00	0.0000	979414.73	-4.71	-16.87	-17.98	-19.47
9100	1675	6490993	416775	-31.71332	140.12164	132.33	0.0000	979415.18	-4.18	-16.38	-17.49	-18.99
9100	1700	6491044	416997	-31.71287	140.12398	132.57	0.0000	979415.11	-4.15	-16.37	-17.48	-18.98
9100	1725	6491023	417242	-31.71307	140.12657	132.71	0.0000	979415.72	-3.51	-15.74	-16.85	-18.35
9100	1750	6491018	417488	-31.71314	140.12916	133.13	0.0000	979415.98	-3.12	-15.39	-16.50	-18.01
9100	1775	6491015	417696	-31.71318	140.13136	133.60	0.0000	979416.01	-2.95	-15.27	-16.39	-17.90
9100	1800	6491025	417998	-31.71311	140.13454	135.04	0.0000	979415.46	-3.05	-15.50	-16.63	-18.16
9100	1825	6490991	418233	-31.71344	140.13702	135.56	0.0000	979416.29	-2.09	-14.58	-15.72	-17.25
9100	1850	6491018	418499	-31.71321	140.13983	135.14	0.0000	979416.41	-2.07	-14.53	-15.66	-17.19
9100	1875	6491025	418732	-31.71317	140.14229	134.81	0.0000	979416.10	-2.49	-14.91	-16.04	-17.57
9100	1900	6491020	419003	-31.71323	140.14516	133.66	0.0000	979416.33	-2.62	-14.94	-16.06	-17.57
9100	1925	6491015	419229	-31.71329	140.14753	133.22	0.0000	979416.83	-2.25	-14.53	-15.65	-17.15
9100	1950	6491004	419512	-31.71342	140.15052	132.94	0.0000	979417.25	-1.93	-14.18	-15.30	-16.80
9100	1975	6490975	419749	-31.71369	140.15302	132.98	0.0000	979416.80	-2.40	-14.65	-15.77	-17.27
9100	2000	6491024	420026	-31.71326	140.15595	133.09	0.0000	979416.71	-2.42	-14.68	-15.80	-17.30
9100	2025	6491026	420254	-31.71326	140.15835	132.44	0.0000	979416.31	-3.01	-15.22	-16.33	-17.83
9100	2050	6491013	420508	-31.71340	140.16104	132.76	0.0000	979415.67	-3.57	-15.80	-16.92	-18.42
9100	2075	6490980	420761	-31.71372	140.16370	132.45	0.0000	979416.25	-3.11	-15.32	-16.43	-17.93
9100	2100	6490988	420985	-31.71366	140.16607	132.86	0.0000	979416.37	-2.86	-15.10	-16.22	-17.72

Line 9150

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)

\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9150	1050	6491518	410481	-31.70810	140.05526	126.74	0.0000	979412.17	-8.49	-20.17	-21.24	-22.67
9150	1075	6491558	410784	-31.70777	140.05847	126.97	0.0000	979412.83	-7.74	-19.44	-20.51	-21.95
9150	1100	6491493	411025	-31.70837	140.06101	127.21	0.0000	979413.31	-7.23	-18.96	-20.02	-21.46
9150	1125	6491527	411244	-31.70809	140.06332	127.73	0.0000	979413.50	-6.86	-18.63	-19.70	-21.15
9150	1150	6491520	411484	-31.70816	140.06585	127.92	0.0000	979413.42	-6.89	-18.68	-19.75	-21.20
9150	1175	6491491	411740	-31.70844	140.06855	128.62	0.0000	979413.39	-6.72	-18.57	-19.65	-21.11
9150	1200	6491510	411985	-31.70829	140.07113	129.13	0.0000	979413.15	-6.80	-18.70	-19.78	-21.24
9150	1225	6491506	412270	-31.70835	140.07414	129.59	0.0000	979413.03	-6.78	-18.72	-19.81	-21.28
9150	1250	6491487	412521	-31.70855	140.07679	129.81	0.0000	979413.10	-6.66	-18.62	-19.71	-21.18
9150	1275	6491519	412757	-31.70827	140.07928	128.87	0.0000	979413.57	-6.45	-18.33	-19.41	-20.87
9150	1300	6491525	413002	-31.70824	140.08186	128.79	0.0000	979413.56	-6.48	-18.35	-19.43	-20.89
9150	1325	6491512	413258	-31.70838	140.08457	129.45	0.0000	979413.30	-6.56	-18.49	-19.57	-21.04
9150	1350	6491524	413480	-31.70828	140.08691	129.83	0.0000	979413.38	-6.34	-18.31	-19.40	-20.87
9150	1375	6491513	413714	-31.70839	140.08938	130.04	0.0000	979413.19	-6.48	-18.46	-19.55	-21.02
9150	1400	6491501	413981	-31.70853	140.09219	130.77	0.0000	979413.10	-6.36	-18.41	-19.51	-20.99
9150	1425	6491520	414227	-31.70837	140.09479	131.09	0.0000	979412.74	-6.61	-18.69	-19.79	-21.27
9150	1450	6491512	414517	-31.70847	140.09785	131.07	0.0000	979412.76	-6.60	-18.68	-19.78	-21.26
9150	1475	6491512	414750	-31.70848	140.10031	131.38	0.0000	979413.14	-6.12	-18.23	-19.33	-20.82
9150	1500	6491521	414982	-31.70842	140.10276	131.23	0.0000	979413.32	-5.98	-18.08	-19.18	-20.66
9150	1525	6491511	415242	-31.70853	140.10550	131.63	0.0000	979413.13	-6.06	-18.20	-19.30	-20.79
9150	1550	6491492	415507	-31.70872	140.10830	132.02	0.0000	979412.88	-6.21	-18.38	-19.48	-20.98
9150	1575	6491509	415731	-31.70858	140.11067	131.71	0.0000	979412.82	-6.35	-18.49	-19.60	-21.09
9150	1600	6491510	415989	-31.70860	140.11339	131.12	0.0000	979413.73	-5.63	-17.71	-18.81	-20.29
9150	1625	6491505	416254	-31.70866	140.11618	131.42	0.0000	979414.11	-5.16	-17.27	-18.37	-19.86
9150	1650	6491509	416497	-31.70864	140.11875	131.40	0.0000	979414.00	-5.27	-17.38	-18.49	-19.97
9150	1675	6491503	416758	-31.70871	140.12150	131.81	0.0000	979414.54	-4.61	-16.76	-17.86	-19.35
9150	1700	6491516	416992	-31.70861	140.12397	131.77	0.0000	979414.80	-4.36	-16.50	-17.61	-19.10
9150	1725	6491502	417237	-31.70875	140.12655	132.09	0.0000	979415.00	-4.06	-16.24	-17.35	-18.84
9150	1750	6491472	417493	-31.70904	140.12926	132.31	0.0000	979415.53	-3.50	-15.69	-16.80	-18.30
9150	1775	6491512	417721	-31.70870	140.13166	133.57	0.0000	979415.54	-3.07	-15.38	-16.50	-18.01
9150	1800	6491515	418002	-31.70869	140.13463	134.66	0.0000	979415.15	-3.12	-15.54	-16.66	-18.19
9150	1825	6491512	418247	-31.70874	140.13722	135.03	0.0000	979414.88	-3.28	-15.73	-16.86	-18.39
9150	1850	6491494	418514	-31.70892	140.14003	133.91	0.0000	979415.38	-3.14	-15.49	-16.61	-18.12
9150	1875	6491534	418741	-31.70857	140.14243	131.35	0.0000	979415.95	-3.33	-15.44	-16.54	-18.03
9150	1900	6491541	418976	-31.70853	140.14491	132.18	0.0000	979416.13	-2.89	-15.07	-16.18	-17.67
9150	1925	6491474	419243	-31.70915	140.14772	131.75	0.0000	979415.68	-3.53	-15.67	-16.77	-18.26
9150	1950	6491529	419470	-31.70867	140.15013	131.51	0.0000	979415.41	-3.83	-15.96	-17.06	-18.55
9150	1975	6491498	419751	-31.70897	140.15308	131.96	0.0000	979415.27	-3.86	-16.02	-17.13	-18.62
9150	2000	6491500	420005	-31.70897	140.15576	132.31	0.0000	979414.93	-4.08	-16.28	-17.39	-18.88
9150	2025	6491508	420247	-31.70892	140.15832	131.86	0.0000	979415.81	-3.34	-15.49	-16.60	-18.09
9150	2050	6491508	420506	-31.70893	140.16105	131.90	0.0000	979416.43	-2.71	-14.87	-15.98	-17.47
9150	2075	6491505	420746	-31.70898	140.16359	131.96	0.0000	979416.39	-2.74	-14.91	-16.01	-17.50
9150	2100	6491522	420980	-31.70884	140.16605	132.93	0.0000	979416.31	-2.51	-14.76	-15.88	-17.38

Line 9200
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9200	1050	6492010	410496	-31.70367	140.05547	125.92	0.0000	979412.12	-8.44	-20.05	-21.10	-22.53
9200	1075	6491993	410740	-31.70384	140.05804	126.70	0.0000	979412.23	-8.11	-19.78	-20.85	-22.28
9200	1100	6491982	410970	-31.70396	140.06047	126.80	0.0000	979412.73	-7.59	-19.27	-20.34	-21.77
9200	1125	6492048	411267	-31.70338	140.06361	127.54	0.0000	979412.88	-7.16	-18.92	-19.98	-21.43
9200	1150	6492011	411488	-31.70373	140.06593	127.44	0.0000	979413.12	-6.98	-18.72	-19.79	-21.23
9200	1175	6492013	411725	-31.70373	140.06843	127.91	0.0000	979413.48	-6.47	-18.26	-19.33	-20.78
9200	1200	6492006	411993	-31.70382	140.07127	128.06	0.0000	979413.60	-6.31	-18.12	-19.19	-20.64
9200	1225	6491996	412265	-31.70393	140.07414	128.12	0.0000	979413.56	-6.35	-18.16	-19.23	-20.68
9200	1250	6491994	412488	-31.70397	140.07648	128.08	0.0000	979413.87	-6.05	-17.85	-18.92	-20.37
9200	1275	6491978	412751	-31.70413	140.07926	127.84	0.0000	979414.11	-5.90	-17.68	-18.75	-20.20
9200	1300	6492040	413011	-31.70359	140.08201	128.40	0.0000	979414.46	-5.33	-17.16	-18.24	-19.69
9200	1325	6492006	413254	-31.70392	140.08456	128.96	0.0000	979413.96	-5.68	-17.57	-18.65	-20.11
9200	1350	6492012	413518	-31.70388	140.08735	128.97	0.0000	979413.76	-5.88	-17.77	-18.85	-20.31
9200	1375	6491981	413738	-31.70418	140.08967	129.04	0.0000	979413.47	-6.17	-18.06	-19.14	-20.60
9200	1400	6491993	414001	-31.70409	140.09245	129.65	0.0000	979413.15	-6.29	-18.24	-19.33	-20.79
9200	1425	6492022	414239	-31.70385	140.09497	130.41	0.0000	979412.48	-6.71	-18.73	-19.82	-21.30
9200	1450	6491983	414492	-31.70422	140.09763	130.07	0.0000	979413.03	-6.30	-18.29	-19.38	-20.85
9200	1475	6492003	414720	-31.70405	140.10003	130.40	0.0000	979413.27	-5.94	-17.96	-19.05	-20.53
9200	1500	6491984	415000	-31.70425	140.10299	130.64	0.0000	979413.42	-5.74	-17.78	-18.87	-20.35
9200	1525	6492023	415215	-31.70391	140.10527	130.99	0.0000	979413.25	-5.77	-17.84	-18.94	-20.42
9200	1550	6491970	415501	-31.70441	140.10828	130.91	0.0000	979412.76	-6.32	-18.39	-19.49	-20.97
9200	1575	6492025	415744	-31.70393	140.11085	130.32	0.0000	979413.07	-6.16	-18.17	-19.26	-20.73
9200	1600	6492016	415957	-31.70403	140.11309	130.12	0.0000	979413.43	-5.86	-17.86	-18.95	-20.42
9200	1625	6492017	416256	-31.70404	140.11625	130.73	0.0000	979413.40	-5.71	-17.76	-18.85	-20.33
9200	1650	6491997	416505	-31.70424	140.11887	130.98	0.0000	979413.89	-5.16	-17.23	-18.33	-19.81
9200	1675	6491989	416746	-31.70432	140.12141	130.53	0.0000	979414.15	-5.04	-17.07	-18.16	-19.64
9200	1700	6492009	416981	-31.70417	140.12390	131.19	0.0000	979414.53	-4.45	-16.54	-17.64	-19.13
9200	1725	6491989	417244	-31.70436	140.12668	131.59	0.0000	979414.62	-4.25	-16.38	-17.48	-18.97
9200	1750	6492015	417517	-31.70415	140.12956	131.26	0.0000	979414.99	-3.96	-16.06	-17.16	-18.65
9200	1775	6492002	417767	-31.70428	140.13219	132.41	0.0000	979415.14	-3.47	-15.67	-16.78	-18.28
9200	1800	6491996	418000	-31.70435	140.13465	132.76	0.0000	979415.24	-3.27	-15.50	-16.62	-18.12
9200	1825	6492011	418248	-31.70424	140.13726	132.76	0.0000	979414.91	-3.59	-15.82	-16.94	-18.44
9200	1850	6492015	418503	-31.70422	140.13996	129.96	0.0000	979415.70	-3.66	-15.63	-16.72	-18.19
9200	1875	6491979	418754	-31.70456	140.14261	129.86	0.0000	979415.93	-3.48	-15.45	-16.54	-18.01
9200	1900	6492053	418998	-31.70391	140.14519	130.24	0.0000	979415.29	-3.96	-15.96	-17.05	-18.53
9200	1925	6492009	419268	-31.70433	140.14802	131.71	0.0000	979414.82	-4.01	-16.15	-17.25	-18.74

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    9200    1950 6492034  419507 -31.70412 140.15055  131.36  0.0000 979414.95   -3.97  -16.08  -17.18  -18.66
    9200    1975 6491961  419729 -31.70480 140.15288  131.37  0.0000 979415.17   -3.80  -15.91  -17.01  -18.49
    9200    2000 6492005  419984 -31.70442 140.15558  130.53  0.0000 979416.62   -2.58  -14.61  -15.71  -17.19
    9200    2025 6491998  420245 -31.70450 140.15834  131.21  0.0000 979416.89   -2.11  -14.20  -15.30  -16.79
    9200    2050 6492026  420510 -31.70426 140.16114  131.09  0.0000 979417.41   -1.61  -13.69  -14.79  -16.27
    9200    2075 6492011  420767 -31.70442 140.16384  131.42  0.0000 979416.92   -2.01  -14.12  -15.22  -16.71
    9200    2100 6492008  420996 -31.70446 140.16626  131.65  0.0000 979416.81   -2.04  -14.18  -15.28  -16.77
Line 9250
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    9250    1050 6492487  410507 -31.69937 140.05563  125.56  0.0000 979412.66   -7.67  -19.24  -20.29  -21.71
    9250    1075 6492512  410778 -31.69916 140.05848  126.26  0.0000 979412.58   -7.51  -19.15  -20.21  -21.64
    9250    1100 6492526  411013 -31.69905 140.06097  126.70  0.0000 979412.66   -7.29  -18.97  -20.03  -21.46
    9250    1125 6492502  411219 -31.69928 140.06315  126.49  0.0000 979412.72   -7.31  -18.97  -20.03  -21.46
    9250    1150 6492527  411507 -31.69908 140.06618  127.41  0.0000 979412.82   -6.91  -18.65  -19.72  -21.16
    9250    1175 6492505  411741 -31.69930 140.06865  127.42  0.0000 979413.26   -6.49  -18.23  -19.30  -20.74
    9250    1200 6492500  412041 -31.69936 140.07181  126.50  0.0000 979413.85   -6.19  -17.85  -18.91  -20.34
    9250    1225 6492472  412237 -31.69963 140.07388  127.15  0.0000 979413.69   -6.16  -17.88  -18.95  -20.39
    9250    1250 6492516  412485 -31.69925 140.07650  127.50  0.0000 979413.58   -6.14  -17.89  -18.96  -20.40
    9250    1275 6492502  412766 -31.69940 140.07946  127.52  0.0000 979413.65   -6.08  -17.83  -18.90  -20.34
    9250    1300 6492475  412981 -31.69966 140.08174  127.68  0.0000 979413.68   -6.01  -17.78  -18.85  -20.29
    9250    1325 6492497  413221 -31.69948 140.08426  128.14  0.0000 979414.03   -5.51  -17.32  -18.40  -19.85
    9250    1350 6492508  413510 -31.69941 140.08732  127.95  0.0000 979414.12   -5.47  -17.26  -18.33  -19.78
    9250    1375 6492498  413726 -31.69951 140.08959  128.24  0.0000 979413.89   -5.61  -17.44  -18.51  -19.96
    9250    1400 6492511  413990 -31.69942 140.09238  128.66  0.0000 979413.58   -5.80  -17.65  -18.73  -20.19
    9250    1425 6492502  414230 -31.69952 140.09492  129.18  0.0000 979413.21   -6.01  -17.92  -19.00  -20.46
    9250    1450 6492500  414504 -31.69955 140.09780  129.28  0.0000 979413.21   -5.98  -17.90  -18.98  -20.44
    9250    1475 6492519  414740 -31.69939 140.10029  130.21  0.0000 979413.08   -5.81  -17.81  -18.90  -20.38
    9250    1500 6492513  414981 -31.69947 140.10284  129.47  0.0000 979413.17   -5.96  -17.89  -18.98  -20.44
    9250    1525 6492490  415252 -31.69970 140.10569  129.32  0.0000 979413.36   -5.83  -17.75  -18.84  -20.30
    9250    1550 6492512  415488 -31.69952 140.10818  129.66  0.0000 979413.16   -5.92  -17.87  -18.95  -20.42
    9250    1575 6492499  415750 -31.69966 140.11095  130.10  0.0000 979412.40   -6.55  -18.54  -19.64  -21.11
    9250    1600 6492471  415977 -31.69992 140.11334  130.03  0.0000 979412.73   -6.27  -18.25  -19.34  -20.81
    9250    1625 6492490  416264 -31.69977 140.11637  129.40  0.0000 979412.32   -6.85  -18.78  -19.86  -21.33
    9250    1650 6492469  416500 -31.69998 140.11886  130.11  0.0000 979412.63   -6.34  -18.33  -19.42  -20.89
    9250    1675 6492499  416743 -31.69973 140.12143  129.89  0.0000 979413.86   -5.16  -17.14  -18.22  -19.69
    9250    1700 6492514  416988 -31.69961 140.12401  130.58  0.0000 979413.92   -4.87  -16.91  -18.00  -19.48
    9250    1725 6492496  417222 -31.69979 140.12648  130.79  0.0000 979414.28   -4.47  -16.52  -17.62  -19.10
    9250    1750 6492507  417491 -31.69971 140.12932  130.82  0.0000 979414.66   -4.07  -16.13  -17.23  -18.71
    9250    1775 6492514  417747 -31.69966 140.13202  130.69  0.0000 979414.86   -3.90  -15.95  -17.05  -18.52
    9250    1800 6492498  417992 -31.69982 140.13460  131.66  0.0000 979414.98   -3.50  -15.63  -16.74  -18.22
    9250    1825 6492491  418234 -31.69991 140.13716  131.32  0.0000 979415.02   -3.57  -15.67  -16.77  -18.26
    9250    1850 6492516  418513 -31.69970 140.14011  129.24  0.0000 979414.52   -4.69  -16.60  -17.69  -19.15
    9250    1875 6492499  418769 -31.69987 140.14280  128.60  0.0000 979415.17   -4.26  -16.12  -17.19  -18.65
    9250    1900 6492493  418993 -31.69994 140.14517  129.17  0.0000 979414.81   -4.45  -16.35  -17.44  -18.90
    9250    1925 6492489  419281 -31.70000 140.14820  130.48  0.0000 979414.69   -4.17  -16.20  -17.29  -18.77
    9250    1950 6492500  419510 -31.69992 140.15062  131.10  0.0000 979414.19   -4.47  -16.56  -17.65  -19.14
    9250    1975 6492503  419747 -31.69991 140.15313  131.19  0.0000 979415.16   -3.47  -15.57  -16.67  -18.15
    9250    2000 6492498  420001 -31.69996 140.15581  130.69  0.0000 979415.98   -2.81  -14.85  -15.95  -17.43
    9250    2025 6492501  420257 -31.69996 140.15850  130.66  0.0000 979416.81   -1.99  -14.04  -15.13  -16.61
    9250    2050 6492506  420487 -31.69993 140.16094  130.67  0.0000 979417.10   -1.69  -13.73  -14.83  -16.31
    9250    2075 6492495  420746 -31.70004 140.16367  130.26  0.0000 979417.45   -1.48  -13.49  -14.58  -16.05
    9250    2100 6492491  421012 -31.70010 140.16647  130.63  0.0000 979417.20   -1.62  -13.66  -14.76  -16.24
Line 9300
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================
    9300    1050 6493029  410465 -31.69447 140.05524  125.63  0.0000 979412.08   -7.83  -19.41  -20.47  -21.89
    9300    1075 6493018  410756 -31.69459 140.05831  124.68  0.0000 979412.60   -7.61  -19.10  -20.15  -21.56
    9300    1100 6493013  411008 -31.69466 140.06096  125.42  0.0000 979412.60   -7.39  -18.95  -20.00  -21.42
    9300    1125 6493003  411233 -31.69477 140.06333  126.40  0.0000 979412.55   -7.14  -18.79  -19.85  -21.28
    9300    1150 6492990  411494 -31.69490 140.06608  126.26  0.0000 979412.81   -6.94  -18.57  -19.63  -21.06
    9300    1175 6492986  411716 -31.69496 140.06843  126.42  0.0000 979412.99   -6.72  -18.37  -19.43  -20.86
    9300    1200 6493012  411978 -31.69474 140.07120  125.83  0.0000 979413.63   -6.24  -17.83  -18.89  -20.31
    9300    1225 6493010  412256 -31.69478 140.07413  126.50  0.0000 979413.57   -6.10  -17.76  -18.82  -20.25
    9300    1250 6492992  412518 -31.69496 140.07689  127.20  0.0000 979413.25   -6.22  -17.94  -19.01  -20.44
    9300    1275 6493023  412737 -31.69470 140.07920  126.35  0.0000 979413.58   -6.13  -17.77  -18.83  -20.26
    9300    1300 6493029  412975 -31.69467 140.08172  127.01  0.0000 979413.56   -5.94  -17.64  -18.71  -20.14
    9300    1325 6493010  413226 -31.69485 140.08436  127.13  0.0000 979413.69   -5.79  -17.51  -18.57  -20.01
    9300    1350 6492991  413484 -31.69505 140.08708  127.54  0.0000 979413.95   -5.42  -17.18  -18.24  -19.69
    9300    1375 6493036  413744 -31.69466 140.08983  127.98  0.0000 979414.08   -5.11  -16.91  -17.98  -19.43
    9300    1400 6493018  413998 -31.69484 140.09251  128.39  0.0000 979414.39   -4.69  -16.53  -17.60  -19.05
    9300    1425 6492994  414260 -31.69508 140.09527  128.63  0.0000 979413.61   -5.43  -17.28  -18.36  -19.82
    9300    1450 6493000  414520 -31.69504 140.09802  129.33  0.0000 979413.08   -5.73  -17.65  -18.74  -20.20
    9300    1475 6493011  414755 -31.69496 140.10050  128.94  0.0000 979412.40   -6.52  -18.41  -19.49  -20.95
    9300    1500 6493007  414995 -31.69501 140.10303  129.12  0.0000 979411.95   -6.92  -18.82  -19.91  -21.37
    9300    1525 6493005  415255 -31.69505 140.10577  129.49  0.0000 979412.82   -5.95  -17.88  -18.97  -20.43
    9300    1550 6492986  415473 -31.69524 140.10807  129.55  0.0000 979412.78   -5.98  -17.92  -19.01  -20.47
    9300    1575 6493019  415753 -31.69496 140.11103  129.01  0.0000 979412.11   -6.80  -18.69  -19.77  -21.23
    9300    1600 6492982  415973 -31.69531 140.11334  128.74  0.0000 979412.13   -6.88  -18.75  -19.83  -21.29
    9300    1625 6492974  416270 -31.69541 140.11648  129.35  0.0000 979411.10   -7.74  -19.66  -20.74  -22.21
    9300    1650 6493002  416468 -31.69517 140.11857  129.10  0.0000 979410.93   -7.97  -19.87  -20.95  -22.41
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9300	1675	6493006	416755	-31.69515	140.12159	129.08	0.0000	979411.40	-7.50	-19.40	-20.48	-21.94
9300	1700	6493025	417011	-31.69500	140.12430	128.16	0.0000	979412.49	-6.69	-18.50	-19.57	-21.02
9300	1725	6492982	417248	-31.69541	140.12680	130.69	0.0000	979413.07	-5.35	-17.40	-18.49	-19.97
9300	1750	6492997	417492	-31.69529	140.12938	130.65	0.0000	979413.89	-4.53	-16.57	-17.67	-19.15
9300	1775	6493013	417749	-31.69516	140.13208	130.10	0.0000	979414.34	-4.24	-16.23	-17.32	-18.80
9300	1800	6492986	418026	-31.69543	140.13500	129.14	0.0000	979415.05	-3.86	-15.76	-16.84	-18.30
9300	1825	6493005	418245	-31.69527	140.13732	129.83	0.0000	979414.88	-3.79	-15.76	-16.85	-18.32
9300	1850	6492982	418493	-31.69550	140.13993	129.45	0.0000	979414.17	-4.64	-16.57	-17.66	-19.12
9300	1875	6492967	418725	-31.69565	140.14238	130.09	0.0000	979413.49	-5.14	-17.13	-18.22	-19.69
9300	1900	6493007	419020	-31.69530	140.14549	127.95	0.0000	979414.29	-4.97	-16.76	-17.83	-19.28
9300	1925	6493015	419243	-31.69525	140.14785	128.91	0.0000	979414.51	-4.44	-16.33	-17.41	-18.86
9300	1950	6492983	419503	-31.69556	140.15059	129.96	0.0000	979413.64	-5.02	-17.00	-18.09	-19.56
9300	1975	6492993	419741	-31.69549	140.15310	130.12	0.0000	979414.70	-3.91	-15.90	-16.99	-18.46
9300	2000	6493010	419987	-31.69535	140.15570	130.13	0.0000	979415.87	-2.73	-14.72	-15.81	-17.28
9300	2025	6493024	420253	-31.69524	140.15851	131.05	0.0000	979416.26	-2.04	-14.12	-15.21	-16.70
9300	2050	6492996	420513	-31.69551	140.16125	129.52	0.0000	979417.14	-1.65	-13.59	-14.67	-16.14
9300	2075	6493002	420740	-31.69547	140.16364	129.19	0.0000	979417.51	-1.38	-13.29	-14.37	-15.83
9300	2100	6493029	421016	-31.69525	140.16655	128.67	0.0000	979417.21	-1.82	-13.68	-14.76	-16.22

Line 9350

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9350	1050	6493500	410507	-31.69023	140.05572	124.31	0.0000	979411.77	-8.20	-19.66	-20.70	-22.11
9350	1075	6493509	410775	-31.69017	140.05855	124.03	0.0000	979412.24	-7.81	-19.24	-20.28	-21.68
9350	1100	6493511	411025	-31.69017	140.06119	125.14	0.0000	979412.01	-7.70	-19.24	-20.29	-21.70
9350	1125	6493530	411235	-31.69002	140.06340	125.30	0.0000	979412.18	-7.47	-19.02	-20.07	-21.49
9350	1150	6493518	411504	-31.69014	140.06624	124.98	0.0000	979412.56	-7.20	-18.72	-19.76	-21.18
9350	1175	6493492	411759	-31.69040	140.06893	124.67	0.0000	979413.02	-6.85	-18.34	-19.39	-20.80
9350	1200	6493509	411990	-31.69026	140.07137	124.85	0.0000	979413.08	-6.72	-18.23	-19.28	-20.69
9350	1225	6493503	412243	-31.69033	140.07404	125.28	0.0000	979413.28	-6.41	-17.95	-19.00	-20.42
9350	1250	6493515	412506	-31.69025	140.07682	125.63	0.0000	979413.45	-6.12	-17.70	-18.75	-20.18
9350	1275	6493522	412728	-31.69020	140.07915	125.91	0.0000	979413.58	-5.90	-17.51	-18.56	-19.99
9350	1300	6493509	412996	-31.69033	140.08198	125.58	0.0000	979413.77	-5.82	-17.39	-18.45	-19.87
9350	1325	6493508	413234	-31.69036	140.08449	126.18	0.0000	979414.13	-5.28	-16.91	-17.97	-19.40
9350	1350	6493470	413532	-31.69073	140.08763	126.31	0.0000	979414.07	-5.32	-16.96	-18.02	-19.45
9350	1375	6493499	413775	-31.69049	140.09020	127.00	0.0000	979414.26	-4.90	-16.61	-17.67	-19.11
9350	1400	6493508	414002	-31.69042	140.09259	127.68	0.0000	979414.45	-4.50	-16.26	-17.33	-18.78
9350	1425	6493514	414245	-31.69039	140.09516	128.35	0.0000	979413.56	-5.18	-17.01	-18.08	-19.53
9350	1450	6493512	414493	-31.69042	140.09778	129.21	0.0000	979412.74	-5.74	-17.65	-18.73	-20.19
9350	1475	6493493	414788	-31.69062	140.10089	128.34	0.0000	979411.98	-6.78	-18.61	-19.68	-21.14
9350	1500	6493496	414984	-31.69060	140.10296	128.26	0.0000	979412.11	-6.68	-18.50	-19.57	-21.02
9350	1525	6493494	415257	-31.69064	140.10584	127.30	0.0000	979412.98	-6.10	-17.83	-18.90	-20.34
9350	1550	6493487	415477	-31.69072	140.10816	127.66	0.0000	979413.04	-5.94	-17.71	-18.78	-20.22
9350	1575	6493518	415749	-31.69046	140.11102	127.71	0.0000	979412.72	-6.22	-17.99	-19.06	-20.51
9350	1600	6493484	415981	-31.69079	140.11347	127.75	0.0000	979412.64	-6.31	-18.09	-19.16	-20.60
9350	1625	6493503	416263	-31.69064	140.11645	128.03	0.0000	979412.24	-6.62	-18.42	-19.49	-20.94
9350	1650	6493521	416497	-31.69049	140.11892	128.55	0.0000	979412.45	-6.23	-18.08	-19.16	-20.61
9350	1675	6493534	416741	-31.69039	140.12149	129.23	0.0000	979412.74	-5.73	-17.64	-18.72	-20.18
9350	1700	6493522	417003	-31.69051	140.12426	129.67	0.0000	979412.88	-5.47	-17.42	-18.50	-19.97
9350	1725	6493491	417232	-31.69081	140.12667	128.71	0.0000	979413.55	-5.11	-16.98	-18.05	-19.51
9350	1750	6493489	417548	-31.69085	140.13000	128.94	0.0000	979413.71	-4.88	-16.76	-17.84	-19.30
9350	1775	6493515	417747	-31.69063	140.13210	128.34	0.0000	979414.30	-4.46	-16.29	-17.37	-18.82
9350	1800	6493518	417990	-31.69062	140.13467	127.71	0.0000	979414.81	-4.15	-15.92	-16.99	-18.43
9350	1825	6493488	418253	-31.69092	140.13745	128.17	0.0000	979414.84	-4.00	-15.81	-16.89	-18.34
9350	1850	6493480	418500	-31.69100	140.14005	128.81	0.0000	979414.54	-4.10	-15.98	-17.06	-18.51
9350	1875	6493479	418758	-31.69103	140.14277	128.20	0.0000	979414.75	-4.09	-15.91	-16.98	-18.43
9350	1900	6493493	418999	-31.69092	140.14531	127.41	0.0000	979415.18	-3.89	-15.63	-16.70	-18.14
9350	1925	6493502	419249	-31.69086	140.14795	128.57	0.0000	979414.83	-3.88	-15.73	-16.80	-18.26
9350	1950	6493474	419507	-31.69113	140.15068	129.29	0.0000	979414.18	-4.33	-16.24	-17.33	-18.79
9350	1975	6493497	419752	-31.69094	140.15326	128.40	0.0000	979414.98	-3.79	-15.62	-16.70	-18.15
9350	2000	6493472	419988	-31.69118	140.15575	128.80	0.0000	979415.73	-2.93	-14.80	-15.88	-17.34
9350	2025	6493490	420262	-31.69103	140.15864	129.69	0.0000	979416.27	-2.11	-14.06	-15.15	-16.61
9350	2050	6493502	420488	-31.69095	140.16102	128.55	0.0000	979416.80	-1.92	-13.77	-14.85	-16.30
9350	2075	6493514	420721	-31.69085	140.16348	128.53	0.0000	979417.40	-1.32	-13.17	-14.25	-15.70
9350	2100	6493498	420991	-31.69102	140.16633	127.92	0.0000	979417.67	-1.25	-13.04	-14.12	-15.56

Line 9400

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9400	1050	6493981	410458	-31.68589	140.05525	122.78	0.0000	979411.33	-8.76	-20.08	-21.11	-22.49
9400	1075	6493976	410720	-31.68595	140.05801	123.09	0.0000	979411.83	-8.18	-19.52	-20.56	-21.95
9400	1100	6494020	410946	-31.68557	140.06039	124.64	0.0000	979411.91	-7.58	-19.07	-20.12	-21.53
9400	1125	6494025	411257	-31.68555	140.06368	124.36	0.0000	979412.31	-7.27	-18.73	-19.77	-21.18
9400	1150	6494007	411508	-31.68573	140.06633	123.72	0.0000	979412.66	-7.13	-18.54	-19.57	-20.97
9400	1175	6493967	411760	-31.68611	140.06898	123.87	0.0000	979412.67	-7.11	-18.52	-19.56	-20.96
9400	1200	6493992	412001	-31.68591	140.07153	124.20	0.0000	979412.57	-7.09	-18.54	-19.58	-20.99
9400	1225	6494007	412258	-31.68578	140.07424	123.86	0.0000	979412.74	-7.01	-18.43	-19.47	-20.87
9400	1250	6494000	412500	-31.68587	140.07679	124.57	0.0000	979412.89	-6.65	-18.13	-19.17	-20.58
9400	1275	6493976	412754	-31.68611	140.07947	124.67	0.0000	979413.58	-5.95	-17.44	-18.49	-19.90
9400	1300	6494013	413004	-31.68579	140.08211	125.14	0.0000	979413.81	-5.55	-17.09	-18.14	-19.55
9400	1325	6494006	413261	-31.68587	140.08482	125.55	0.0000	979413.89	-5.35	-16.92	-17.97	-19.39
9400	1350	6494006	413503	-31.68589	140.08738	125.92	0.0000	979413.91	-5.22	-16.83	-17.88	-19.31
9400	1375	6493983	413738	-31.68611	140.08985	127.51	0.0000	979413.75	-4.91	-16.66	-17.73	-19.17

9400	1400	6493978	413992	-31.68618	140.09253	127.62	0.0000	979413.83	-4.79	-16.56	-17.63	-19.07
9400	1425	6494011	414258	-31.68590	140.09534	127.64	0.0000	979413.45	-5.14	-16.91	-17.98	-19.42
9400	1450	6493998	414505	-31.68604	140.09794	126.87	0.0000	979412.55	-6.30	-17.99	-19.05	-20.49
9400	1475	6494009	414758	-31.68595	140.10061	126.90	0.0000	979412.01	-6.81	-18.51	-19.57	-21.01
9400	1500	6494013	414999	-31.68594	140.10315	127.49	0.0000	979412.66	-5.99	-17.74	-18.81	-20.25
9400	1525	6493994	415266	-31.68613	140.10597	126.94	0.0000	979413.51	-5.32	-17.02	-18.09	-19.52
9400	1550	6494000	415515	-31.68609	140.10860	127.70	0.0000	979413.60	-4.99	-16.76	-17.83	-19.27
9400	1575	6494013	415793	-31.68600	140.11153	126.93	0.0000	979413.82	-5.00	-16.70	-17.77	-19.20
9400	1600	6493996	416002	-31.68616	140.11374	127.62	0.0000	979413.18	-5.44	-17.20	-18.27	-19.72
9400	1625	6494008	416234	-31.68608	140.11619	126.98	0.0000	979413.61	-5.21	-16.91	-17.98	-19.41
9400	1650	6494016	416509	-31.68603	140.11909	127.89	0.0000	979414.08	-4.45	-16.24	-17.31	-18.76
9400	1675	6493967	416744	-31.68648	140.12156	128.50	0.0000	979414.19	-4.18	-16.03	-17.10	-18.56
9400	1700	6493988	417010	-31.68631	140.12437	129.01	0.0000	979414.19	-4.02	-15.91	-16.99	-18.45
9400	1725	6493984	417226	-31.68637	140.12665	128.67	0.0000	979414.02	-4.30	-16.16	-17.23	-18.69
9400	1750	6493994	417501	-31.68630	140.12955	127.79	0.0000	979414.24	-4.34	-16.12	-17.19	-18.63
9400	1775	6494032	417754	-31.68597	140.13222	127.37	0.0000	979413.99	-4.70	-16.44	-17.50	-18.94
9400	1800	6493956	417995	-31.68667	140.13476	127.00	0.0000	979414.40	-4.45	-16.16	-17.22	-18.66
9400	1825	6494001	418238	-31.68628	140.13733	127.17	0.0000	979414.43	-4.34	-16.06	-17.13	-18.57
9400	1850	6494000	418473	-31.68631	140.13980	126.71	0.0000	979414.97	-3.94	-15.62	-16.68	-18.12
9400	1875	6493976	418759	-31.68654	140.14282	126.47	0.0000	979415.28	-3.73	-15.38	-16.44	-17.87
9400	1900	6493995	419024	-31.68639	140.14562	127.15	0.0000	979414.97	-3.82	-15.53	-16.60	-18.04
9400	1925	6494016	419241	-31.68622	140.14791	128.32	0.0000	979414.91	-3.51	-15.33	-16.41	-17.86
9400	1950	6494013	419508	-31.68627	140.15073	129.11	0.0000	979414.67	-3.51	-15.41	-16.49	-17.95
9400	1975	6493973	419755	-31.68664	140.15333	128.18	0.0000	979415.27	-3.22	-15.03	-16.11	-17.56
9400	2000	6494000	419994	-31.68642	140.15586	128.25	0.0000	979415.67	-2.78	-14.60	-15.68	-17.13
9400	2025	6493980	420264	-31.68661	140.15870	127.89	0.0000	979415.96	-2.62	-14.40	-15.48	-16.92
9400	2050	6494019	420490	-31.68628	140.16109	127.60	0.0000	979416.65	-1.99	-13.75	-14.82	-16.27
9400	2075	6493992	420754	-31.68654	140.16387	127.45	0.0000	979417.19	-1.52	-13.27	-14.33	-15.77
9400	2100	6493999	420995	-31.68649	140.16641	127.50	0.0000	979417.14	-1.55	-13.30	-14.37	-15.81

Line 9450

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9450	1050	6494513	410474	-31.68108	140.05547	122.64	0.0000	979411.00	-8.76	-20.06	-21.09	-22.47
9450	1075	6494493	410771	-31.68129	140.05859	123.25	0.0000	979411.13	-8.44	-19.81	-20.84	-22.23
9450	1100	6494487	410990	-31.68136	140.06091	122.80	0.0000	979411.49	-8.23	-19.55	-20.58	-21.97
9450	1125	6494514	411214	-31.68113	140.06328	123.11	0.0000	979411.69	-7.92	-19.26	-20.29	-21.69
9450	1150	6494525	411497	-31.68106	140.06626	123.14	0.0000	979412.31	-7.28	-18.63	-19.67	-21.06
9450	1175	6494492	411734	-31.68137	140.06875	123.84	0.0000	979412.53	-6.87	-18.29	-19.33	-20.73
9450	1200	6494533	412017	-31.68103	140.07174	123.83	0.0000	979412.70	-6.68	-18.09	-19.13	-20.53
9450	1225	6494522	412247	-31.68114	140.07417	123.46	0.0000	979412.33	-7.17	-18.55	-19.59	-20.98
9450	1250	6494511	412492	-31.68126	140.07675	123.89	0.0000	979412.33	-7.05	-18.47	-19.51	-20.91
9450	1275	6494497	412734	-31.68141	140.07931	123.89	0.0000	979412.92	-6.47	-17.89	-18.93	-20.33
9450	1300	6494500	412996	-31.68140	140.08207	125.02	0.0000	979413.08	-5.96	-17.49	-18.54	-19.95
9450	1325	6494528	413236	-31.68116	140.08460	125.34	0.0000	979413.28	-5.64	-17.19	-18.24	-19.66
9450	1350	6494492	413519	-31.68151	140.08759	126.25	0.0000	979413.37	-5.30	-16.94	-17.99	-19.42
9450	1375	6494508	413752	-31.68138	140.09005	126.66	0.0000	979413.54	-4.99	-16.67	-17.73	-19.16
9450	1400	6494523	414012	-31.68127	140.09279	125.88	0.0000	979413.80	-4.97	-16.57	-17.62	-19.05
9450	1425	6494483	414260	-31.68164	140.09540	126.19	0.0000	979413.53	-5.17	-16.80	-17.86	-19.29
9450	1450	6494507	414511	-31.68145	140.09805	126.17	0.0000	979412.99	-5.69	-17.32	-18.38	-19.81
9450	1475	6494519	414751	-31.68136	140.10059	126.60	0.0000	979412.79	-5.76	-17.43	-18.49	-19.93
9450	1500	6494490	415023	-31.68164	140.10345	126.61	0.0000	979412.82	-5.75	-17.42	-18.48	-19.91
9450	1525	6494510	415242	-31.68147	140.10576	125.58	0.0000	979413.51	-5.37	-16.94	-18.00	-19.42
9450	1550	6494500	415511	-31.68158	140.10860	126.04	0.0000	979414.23	-4.51	-16.12	-17.18	-18.61
9450	1575	6494508	415776	-31.68154	140.11139	126.07	0.0000	979414.26	-4.47	-16.09	-17.14	-18.57
9450	1600	6494490	416007	-31.68171	140.11383	126.61	0.0000	979413.91	-4.66	-16.33	-17.39	-18.83
9450	1625	6494492	416272	-31.68171	140.11663	126.07	0.0000	979414.41	-4.33	-15.95	-17.01	-18.43
9450	1650	6494485	416517	-31.68180	140.11921	126.17	0.0000	979414.77	-3.94	-15.57	-16.63	-18.06
9450	1675	6494504	416764	-31.68164	140.12182	126.96	0.0000	979414.48	-3.99	-15.69	-16.75	-18.19
9450	1700	6494497	416980	-31.68172	140.12409	128.26	0.0000	979414.08	-3.98	-15.80	-16.88	-18.33
9450	1725	6494514	417258	-31.68158	140.12703	127.93	0.0000	979414.32	-3.84	-15.63	-16.70	-18.15
9450	1750	6494511	417525	-31.68163	140.12985	127.71	0.0000	979414.41	-3.82	-15.59	-16.66	-18.11
9450	1775	6494510	417755	-31.68166	140.13227	127.10	0.0000	979414.45	-3.97	-15.69	-16.75	-18.19
9450	1800	6494478	417993	-31.68196	140.13478	127.40	0.0000	979413.95	-4.40	-16.14	-17.21	-18.65
9450	1825	6494494	418253	-31.68184	140.13753	127.20	0.0000	979414.06	-4.35	-16.07	-17.14	-18.57
9450	1850	6494510	418509	-31.68171	140.14023	125.56	0.0000	979415.04	-3.86	-15.43	-16.48	-17.90
9450	1875	6494494	418740	-31.68188	140.14266	125.69	0.0000	979415.34	-3.53	-15.12	-16.17	-17.59
9450	1900	6494495	418993	-31.68188	140.14534	126.14	0.0000	979414.95	-3.78	-15.41	-16.47	-17.89
9450	1925	6494500	419246	-31.68186	140.14800	126.71	0.0000	979415.05	-3.51	-15.19	-16.25	-17.68
9450	1950	6494500	419507	-31.68187	140.15076	128.18	0.0000	979415.02	-3.08	-14.90	-15.97	-17.42
9450	1975	6494517	419747	-31.68173	140.15329	127.01	0.0000	979415.57	-2.89	-14.59	-15.66	-17.09
9450	2000	6494529	420010	-31.68165	140.15606	125.73	0.0000	979416.19	-2.66	-14.25	-15.30	-16.72
9450	2025	6494496	420242	-31.68196	140.15851	125.97	0.0000	979416.06	-2.73	-14.34	-15.40	-16.82
9450	2050	6494488	420503	-31.68205	140.16126	125.95	0.0000	979416.60	-2.20	-13.81	-14.87	-16.29
9450	2075	6494495	420758	-31.68201	140.16395	126.25	0.0000	979416.74	-1.97	-13.60	-14.66	-16.09
9450	2100	6494516	420998	-31.68183	140.16648	127.43	0.0000	979416.70	-1.64	-13.38	-14.45	-15.89

Line 9500

\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9500	1050	6495004	410475	-31.67665	140.05552	122.53	0.0000	979411.06	-8.37	-19.66	-20.69	-22.07
9500	1075	6494991	410753	-31.67679	140.05845	122.71	0.0000	979411.60	-7.78	-19.09	-20.12	-21.51
9500	1100	6494982	411005	-31.67690	140.06110	122.74	0.0000	979411.45	-7.93	-19.24	-20.27	-21.66

9500	1125	6494984	411236	-31.67690	140.06355	122.70	0.0000	979411.46	-7.94	-19.25	-20.27	-21.66
9500	1150	6494964	411494	-31.67710	140.06626	123.52	0.0000	979411.29	-7.86	-19.25	-20.28	-21.68
9500	1175	6494995	411770	-31.67684	140.06918	122.33	0.0000	979411.94	-7.57	-18.84	-19.87	-21.25
9500	1200	6495010	412027	-31.67673	140.07190	123.14	0.0000	979412.21	-7.04	-18.39	-19.42	-20.81
9500	1225	6495002	412232	-31.67681	140.07406	122.83	0.0000	979412.06	-7.29	-18.61	-19.64	-21.03
9500	1250	6495019	412496	-31.67668	140.07684	122.67	0.0000	979411.67	-7.71	-19.02	-20.05	-21.44
9500	1275	6495014	412701	-31.67674	140.07900	123.42	0.0000	979411.57	-7.59	-18.96	-20.00	-21.39
9500	1300	6494979	413025	-31.67708	140.08241	124.65	0.0000	979411.92	-6.89	-18.38	-19.42	-20.83
9500	1325	6494986	413244	-31.67703	140.08473	125.35	0.0000	979412.02	-6.56	-18.12	-19.17	-20.59
9500	1350	6495001	413509	-31.67691	140.08753	125.01	0.0000	979412.45	-6.23	-17.75	-18.80	-20.22
9500	1375	6495006	413747	-31.67689	140.09004	124.70	0.0000	979413.01	-5.77	-17.26	-18.30	-19.72
9500	1400	6494999	414008	-31.67697	140.09278	125.22	0.0000	979413.15	-5.47	-17.01	-18.06	-19.48
9500	1425	6495006	414250	-31.67693	140.09534	125.75	0.0000	979413.14	-5.31	-16.91	-17.96	-19.38
9500	1450	6494981	414513	-31.67717	140.09811	125.10	0.0000	979413.26	-5.41	-16.94	-17.99	-19.41
9500	1475	6495000	414770	-31.67702	140.10083	124.22	0.0000	979413.31	-5.62	-17.07	-18.11	-19.52
9500	1500	6494999	415005	-31.67704	140.10330	124.43	0.0000	979413.38	-5.49	-16.96	-18.00	-19.41
9500	1525	6494991	415231	-31.67714	140.10569	124.71	0.0000	979413.83	-4.96	-16.46	-17.50	-18.91
9500	1550	6494998	415528	-31.67710	140.10882	125.24	0.0000	979414.59	-4.04	-15.58	-16.63	-18.05
9500	1575	6495019	415742	-31.67692	140.11108	125.33	0.0000	979414.76	-3.82	-15.37	-16.42	-17.84
9500	1600	6494967	416009	-31.67741	140.11390	126.46	0.0000	979414.35	-3.92	-15.58	-16.64	-18.07
9500	1625	6495011	416242	-31.67703	140.11635	126.24	0.0000	979414.80	-3.51	-15.15	-16.21	-17.64
9500	1650	6495001	416493	-31.67713	140.11900	126.38	0.0000	979415.16	-3.11	-14.76	-15.82	-17.25
9500	1675	6495003	416738	-31.67713	140.12158	126.61	0.0000	979414.77	-3.44	-15.11	-16.17	-17.60
9500	1700	6494981	416979	-31.67735	140.12413	127.18	0.0000	979414.66	-3.38	-15.10	-16.17	-17.61
9500	1725	6494962	417248	-31.67755	140.12697	127.08	0.0000	979414.65	-3.44	-15.16	-16.22	-17.66
9500	1750	6495011	417500	-31.67712	140.12962	127.39	0.0000	979414.66	-3.31	-15.05	-16.12	-17.56
9500	1775	6494994	417731	-31.67729	140.13206	126.42	0.0000	979414.75	-3.53	-15.18	-16.24	-17.67
9500	1800	6494991	417986	-31.67734	140.13475	125.86	0.0000	979414.37	-4.08	-15.68	-16.74	-18.16
9500	1825	6494991	418216	-31.67735	140.13718	126.00	0.0000	979414.19	-4.22	-15.83	-16.89	-18.31
9500	1850	6494970	418511	-31.67757	140.14029	124.90	0.0000	979414.79	-3.98	-15.50	-16.54	-17.96
9500	1875	6495004	418730	-31.67727	140.14260	125.15	0.0000	979415.00	-3.67	-15.20	-16.25	-17.67
9500	1900	6495001	419011	-31.67732	140.14556	125.33	0.0000	979415.51	-3.10	-14.66	-15.71	-17.12
9500	1925	6494987	419237	-31.67746	140.14795	125.09	0.0000	979415.19	-3.51	-15.04	-16.09	-17.51
9500	1950	6494984	419491	-31.67750	140.15063	126.40	0.0000	979415.00	-3.30	-14.95	-16.01	-17.44
9500	1975	6494991	419745	-31.67746	140.15331	127.49	0.0000	979415.02	-2.94	-14.69	-15.76	-17.20
9500	2000	6495000	420002	-31.67740	140.15602	126.29	0.0000	979415.69	-2.63	-14.27	-15.33	-16.76
9500	2025	6495005	420219	-31.67737	140.15831	125.34	0.0000	979416.77	-1.85	-13.40	-14.45	-15.87
9500	2050	6495005	420480	-31.67739	140.16106	125.14	0.0000	979416.91	-1.77	-13.30	-14.35	-15.77
9500	2075	6494963	420745	-31.67778	140.16385	126.20	0.0000	979416.46	-1.93	-13.56	-14.62	-16.05
9500	2100	6495013	420986	-31.67735	140.16640	126.58	0.0000	979416.32	-1.91	-13.58	-14.64	-16.07

Line 9550

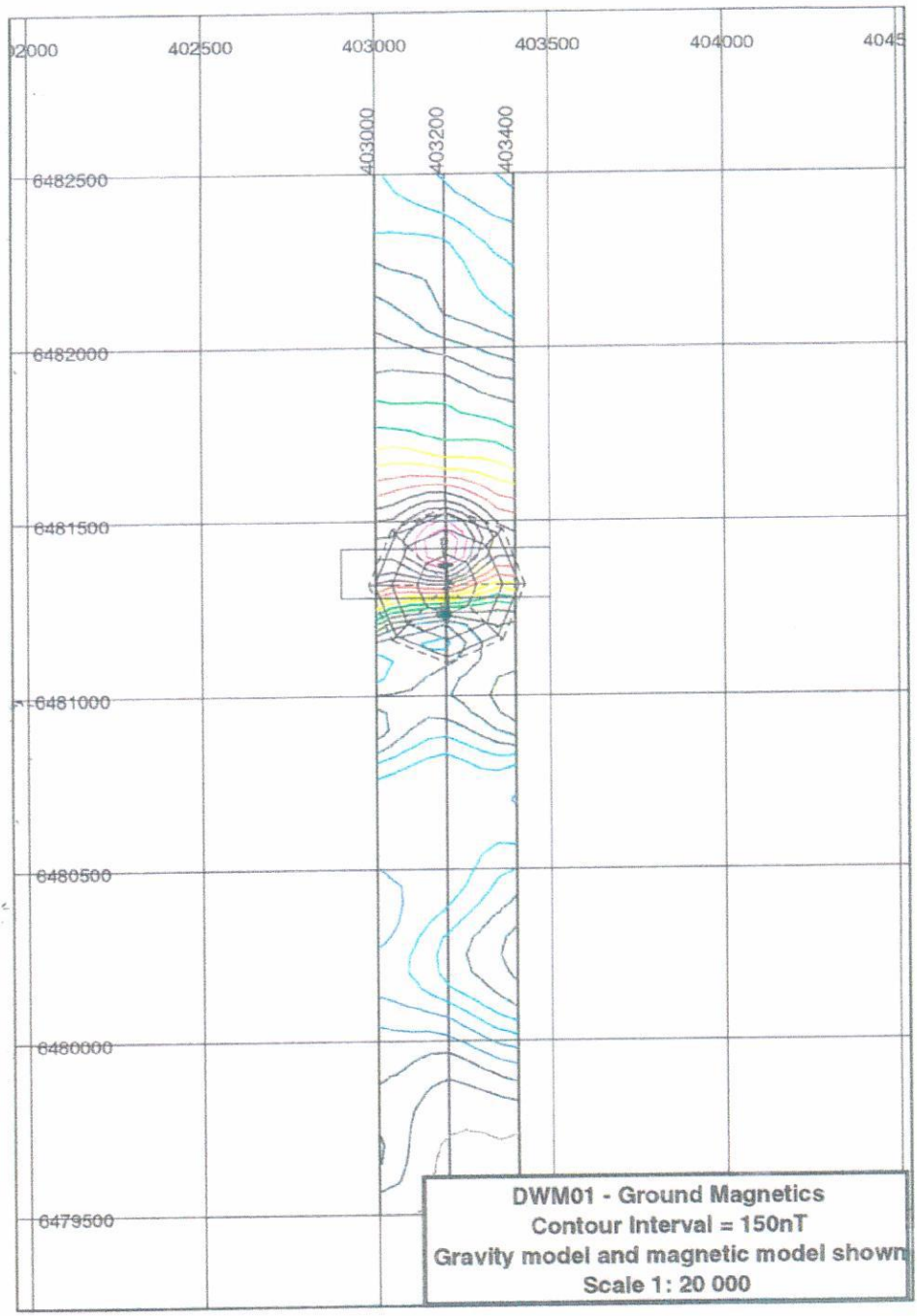
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD 03-17-2000

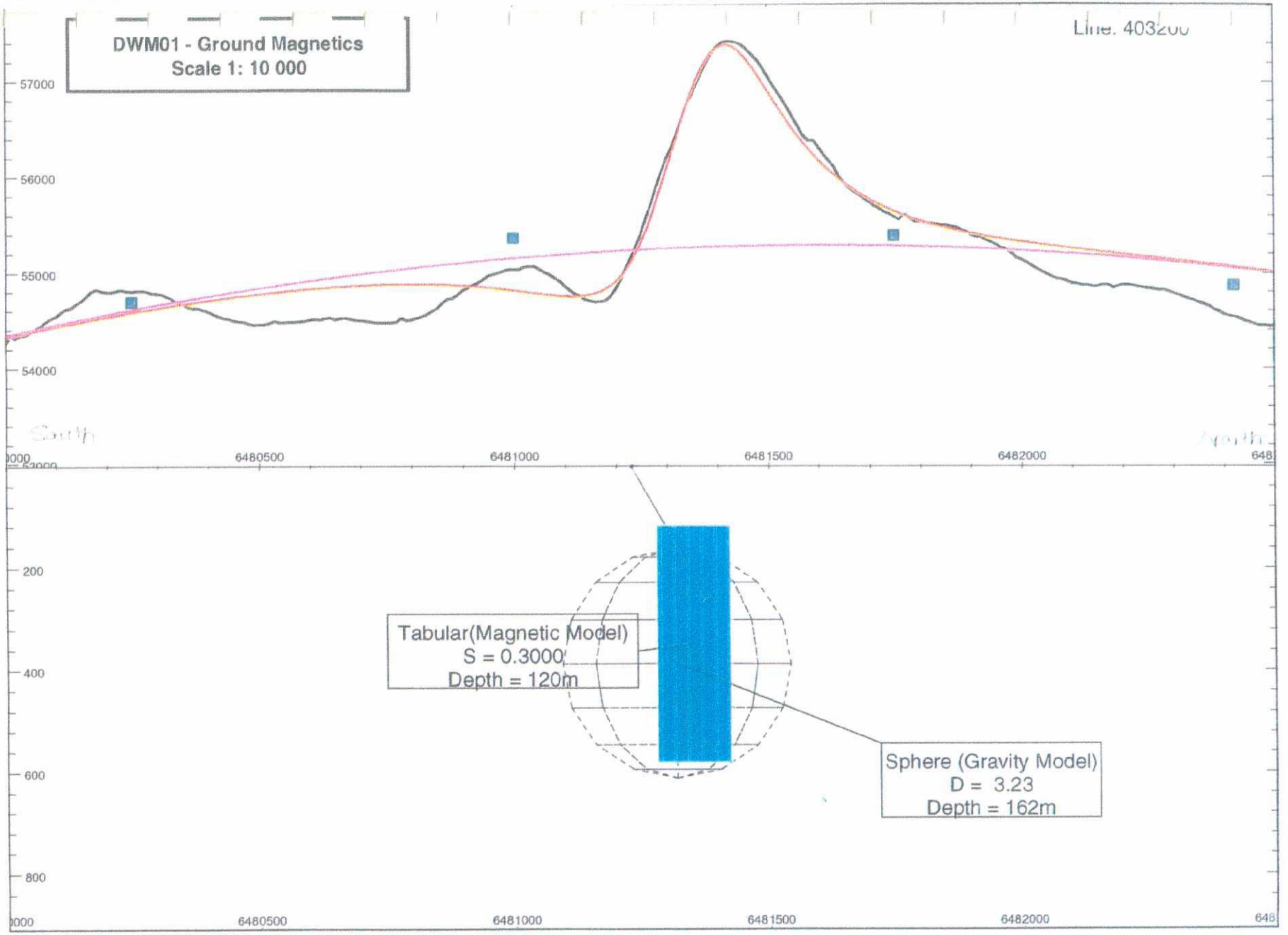
\Line	Station	North	East	Latitude	Longitude	Elev	Ter Cor	G obs.	Free Air	Bouguer Gravity (mgals)		
\		metres	metres	dec deg	dec deg	metres	mgals	mgals	mgals	2.20g/cc	2.40g/cc	2.67g/cc
9550	1050	6495515	410486	-31.67205	140.05569	122.17	0.0000	979410.68	-8.49	-19.75	-20.77	-22.16
9550	1075	6495521	410760	-31.67202	140.05857	121.14	0.0000	979411.36	-8.12	-19.29	-20.30	-21.67
9550	1100	6495527	411006	-31.67198	140.06117	120.82	0.0000	979411.71	-7.86	-19.00	-20.01	-21.38
9550	1125	6495519	411239	-31.67207	140.06363	120.94	0.0000	979411.93	-7.62	-18.76	-19.78	-21.14
9550	1150	6495513	411507	-31.67214	140.06645	122.13	0.0000	979411.86	-7.33	-18.59	-19.61	-20.99
9550	1175	6495511	411736	-31.67218	140.06887	121.83	0.0000	979412.12	-7.16	-18.39	-19.41	-20.78
9550	1200	6495537	411973	-31.67197	140.07137	121.40	0.0000	979412.51	-6.88	-18.07	-19.09	-20.46
9550	1225	6495511	412242	-31.67222	140.07421	121.94	0.0000	979412.30	-6.95	-18.19	-19.21	-20.59
9550	1250	6495500	412500	-31.67234	140.07693	122.60	0.0000	979411.61	-7.44	-18.74	-19.77	-21.16
9550	1275	6495486	412763	-31.67249	140.07970	121.96	0.0000	979411.63	-7.63	-18.87	-19.89	-21.27
9550	1300	6495501	413008	-31.67236	140.08229	122.76	0.0000	979411.88	-7.13	-18.44	-19.47	-20.86
9550	1325	6495505	413244	-31.67235	140.08478	124.63	0.0000	979411.54	-6.89	-18.37	-19.42	-20.83
9550	1350	6495486	413517	-31.67254	140.08765	124.99	0.0000	979411.44	-6.90	-18.42	-19.46	-20.88
9550	1375	6495458	413771	-31.67281	140.09033	124.17	0.0000	979411.96	-6.65	-18.10	-19.14	-20.54
9550	1400	6495495	413972	-31.67249	140.09245	124.14	0.0000	979412.25	-6.35	-17.79	-18.83	-20.23
9550	1425	6495520	414269	-31.67229	140.09559	124.59	0.0000	979412.67	-5.77	-17.25	-18.29	-19.70
9550	1450	6495498	414475	-31.67250	140.09776	124.01	0.0000	979412.95	-5.68	-17.11	-18.15	-19.55
9550	1475	6495525	414747	-31.67228	140.10063	123.80	0.0000	979413.01	-5.67	-17.08	-18.12	-19.52
9550	1500	6495497	415017	-31.67256	140.10348	124.18	0.0000	979413.27	-5.32	-16.76	-17.81	-19.21
9550	1525	6495468	415261	-31.67283	140.10604	124.64	0.0000	979413.54	-4.93	-16.41	-17.46	-18.87
9550	1550	6495512	415524	-31.67246	140.10883	125.01	0.0000	979413.75	-4.57	-16.09	-17.14	-18.56
9550	1575	6495504	415748	-31.67254	140.11118	125.13	0.0000	979414.15	-4.14	-15.67	-16.72	-18.14
9550	1600	6495497	416007	-31.67263	140.11392	126.65	0.0000	979414.17	-3.66	-15.33	-16.40	-17.83
9550	1625	6495522	416241	-31.67242	140.11639	126.09	0.0000	979414.46	-3.53	-15.15	-16.21	-17.63
9550	1650	6495495	416512	-31.67269	140.11925	126.09	0.0000	979414.86	-3.14	-14.77	-15.82	-17.25
9550	1675	6495517	416766	-31.67250	140.12192	125.71	0.0000	979415.00	-3.11	-14.70	-15.75	-17.17
9550	1700	6495530	417011	-31.67240	140.12451	125.78	0.0000	979415.32	-2.76	-14.36	-15.41	-16.83
9550	1725	6495487	417271	-31.67281	140.12725	126.41	0.0000	979414.97	-2.95	-14.60	-15.66	-17.09
9550	1750	6495485	417511	-31.67284	140.12978	126.77	0.0000	979414.85	-2.96	-14.65	-15.71	-17.14
9550	1775	6495483	417784	-31.67288	140.13266	126.00	0.0000	979415.16	-2.89	-14.50	-15.56	-16.98
9550	1800	6495508	417961	-31.67267	140.13453	125.43	0.0000	979415.56	-2.65	-14.21	-15.26	-16.68
9550	1825	6495488	418241	-31.67287	140.13748	125.42	0.0000	979414.84	-3.39	-14.95	-16.00	-17.42
9550	1850	6495482	418522	-31.67294	140.14045	123.70	0.0000	979414.70	-4.06	-15.46	-16.50	-17.90
9550	1875	6495500	418738	-31.67280	140.14273	124.10	0.0000	979414.77	-3.86	-15.30	-16.34	-17.75
9550	1900	6495504	418998	-31.67278	140.14547	124.37	0.0000	979415.08	-3.47	-14.93	-15.97	-17.38
9550	1925	6495513	419223	-31.67271	140.14784	125.06	0.0000	979415.22	-3.10	-14.63	-15.68	-17.09
9550	1950	6495520	419504	-31.67267	140.15081	125.22	0.0000	979415.19	-3.09	-14.63	-15.68	-17.09
9550	1975	6495493	419745	-31.67293	140.15335	124.50	0.0000	979415.25	-3.26	-14.74	-15.78	-17.19
9550	2000	6495521	419988	-31.67269	140.15592	124.26	0.0000	979416.18	-2.40	-13.85	-14.89	-16.30
9550	2025	6495507	420267	-31.67284	140.15885	124.75	0.0000	979417.06	-1.37	-12.87	-13.91	-15.32
9550	2050	6495508	420497	-31.67285	140.16128	125.53	0.0000	979417.04	-1.16	-12.73	-13.78	-15.20

```
    9550    2075 6495505  420756 -31.67289 140.16401  125.10  0.0000 979416.86   -1.47  -13.00  -14.05  -15.47
    9550    2100 6495509  420988 -31.67287 140.16646  124.32  0.0000 979416.97   -1.60  -13.05  -14.10  -15.50
Line 9600
\Bouguer Gravity Data collected and processed by FUGRO AIRBORNE SURVEYS PTY LTD    03-17-2000
\=============================================================================================================================
\Line   Station North    East   Latitude  Longitude   Elev   Ter Cor  G obs.  Free Air  Bouguer Gravity (mgals)
\               metres   metres  dec deg   dec deg    metres   mgals   mgals    mgals  2.20g/cc 2.40g/cc 2.67g/cc
\=============================================================================================================================
    9600    1050 6495977  410516 -31.66788 140.05604  120.39  0.0000 979411.31   -8.07  -19.17  -20.17  -21.54
    9600    1075 6495995  410754 -31.66774 140.05855  119.85  0.0000 979411.53   -8.01  -19.05  -20.06  -21.41
    9600    1100 6495995  411003 -31.66776 140.06118  120.00  0.0000 979411.30   -8.19  -19.25  -20.26  -21.61
    9600    1125 6495998  411236 -31.66775 140.06363  120.77  0.0000 979411.36   -7.89  -19.02  -20.03  -21.40
    9600    1150 6495996  411496 -31.66779 140.06638  120.61  0.0000 979411.72   -7.59  -18.71  -19.72  -21.08
    9600    1175 6496015  411737 -31.66763 140.06893  122.00  0.0000 979411.72   -7.14  -18.38  -19.40  -20.78
    9600    1200 6496023  412007 -31.66758 140.07177  121.36  0.0000 979412.10   -6.95  -18.14  -19.15  -20.53
    9600    1225 6496019  412262 -31.66763 140.07446  121.31  0.0000 979412.49   -6.59  -17.77  -18.78  -20.16
    9600    1250 6495996  412495 -31.66786 140.07691  121.45  0.0000 979412.00   -7.05  -18.24  -19.26  -20.63
    9600    1275 6496023  412725 -31.66764 140.07934  121.72  0.0000 979412.04   -6.90  -18.12  -19.14  -20.52
    9600    1300 6496003  412986 -31.66783 140.08210  122.42  0.0000 979412.10   -6.65  -17.93  -18.96  -20.34
    9600    1325 6495999  413222 -31.66789 140.08458  123.50  0.0000 979411.61   -6.81  -18.20  -19.23  -20.63
    9600    1350 6495977  413485 -31.66811 140.08735  123.82  0.0000 979411.33   -7.01  -18.42  -19.46  -20.86
    9600    1375 6495979  413744 -31.66811 140.09009  123.51  0.0000 979411.36   -7.07  -18.46  -19.49  -20.89
    9600    1400 6495980  413970 -31.66812 140.09247  123.50  0.0000 979411.69   -6.75  -18.13  -19.16  -20.56
    9600    1425 6496012  414259 -31.66785 140.09553  123.51  0.0000 979412.11   -6.30  -17.68  -18.72  -20.12
    9600    1450 6495979  414491 -31.66817 140.09797  123.03  0.0000 979412.42   -6.17  -17.51  -18.54  -19.93
    9600    1475 6495970  414751 -31.66827 140.10072  123.68  0.0000 979412.64   -5.76  -17.16  -18.19  -19.59
    9600    1500 6495972  415013 -31.66827 140.10348  124.53  0.0000 979412.66   -5.47  -16.95  -17.99  -19.40
    9600    1525 6496001  415231 -31.66802 140.10578  124.32  0.0000 979412.95   -5.23  -16.69  -17.73  -19.14
    9600    1550 6495984  415490 -31.66819 140.10851  125.24  0.0000 979413.13   -4.78  -16.33  -17.37  -18.79
    9600    1575 6495991  415731 -31.66815 140.11105  125.42  0.0000 979413.58   -4.27  -15.83  -16.88  -18.30
    9600    1600 6495975  415984 -31.66831 140.11372  123.40  0.0000 979414.39   -4.09  -15.47  -16.50  -17.90
    9600    1625 6495990  416249 -31.66820 140.11651  124.03  0.0000 979414.42   -3.86  -15.29  -16.33  -17.73
    9600    1650 6495993  416474 -31.66819 140.11888  125.03  0.0000 979414.37   -3.60  -15.13  -16.18  -17.59
    9600    1675 6495988  416739 -31.66825 140.12168  124.98  0.0000 979415.08   -2.91  -14.43  -15.48  -16.89
    9600    1700 6496006  416979 -31.66811 140.12421  125.18  0.0000 979415.11   -2.81  -14.34  -15.39  -16.81
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    9600    1750 6496007  417491 -31.66814 140.12961  125.22  0.0000 979415.47   -2.44  -13.98  -15.03  -16.45
    9600    1775 6495989  417762 -31.66832 140.13247  124.11  0.0000 979416.18   -2.08  -13.52  -14.56  -15.97
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    9600    1900 6495998  418986 -31.66832 140.14539  122.97  0.0000 979416.03   -2.59  -13.92  -14.95  -16.35
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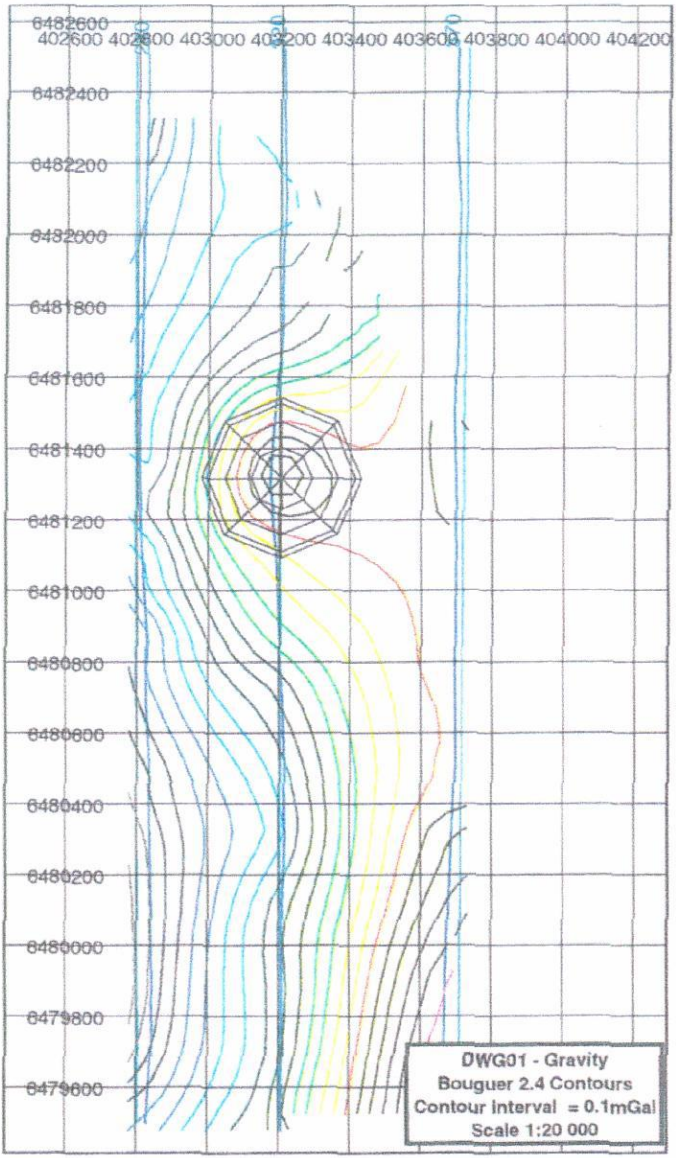
APPENDIX 2

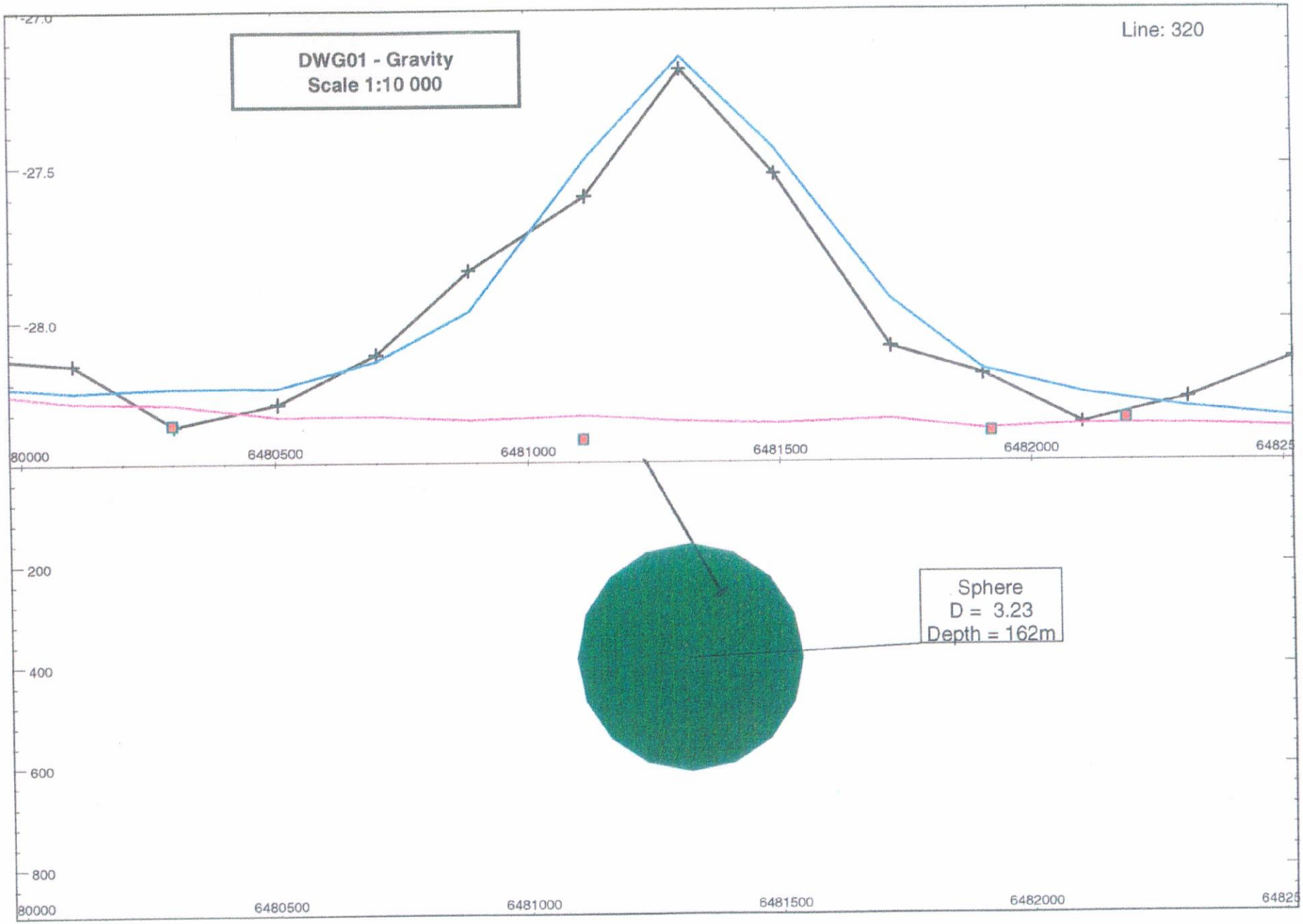
GROUND MAGNETIC/GRAVITY MODELS

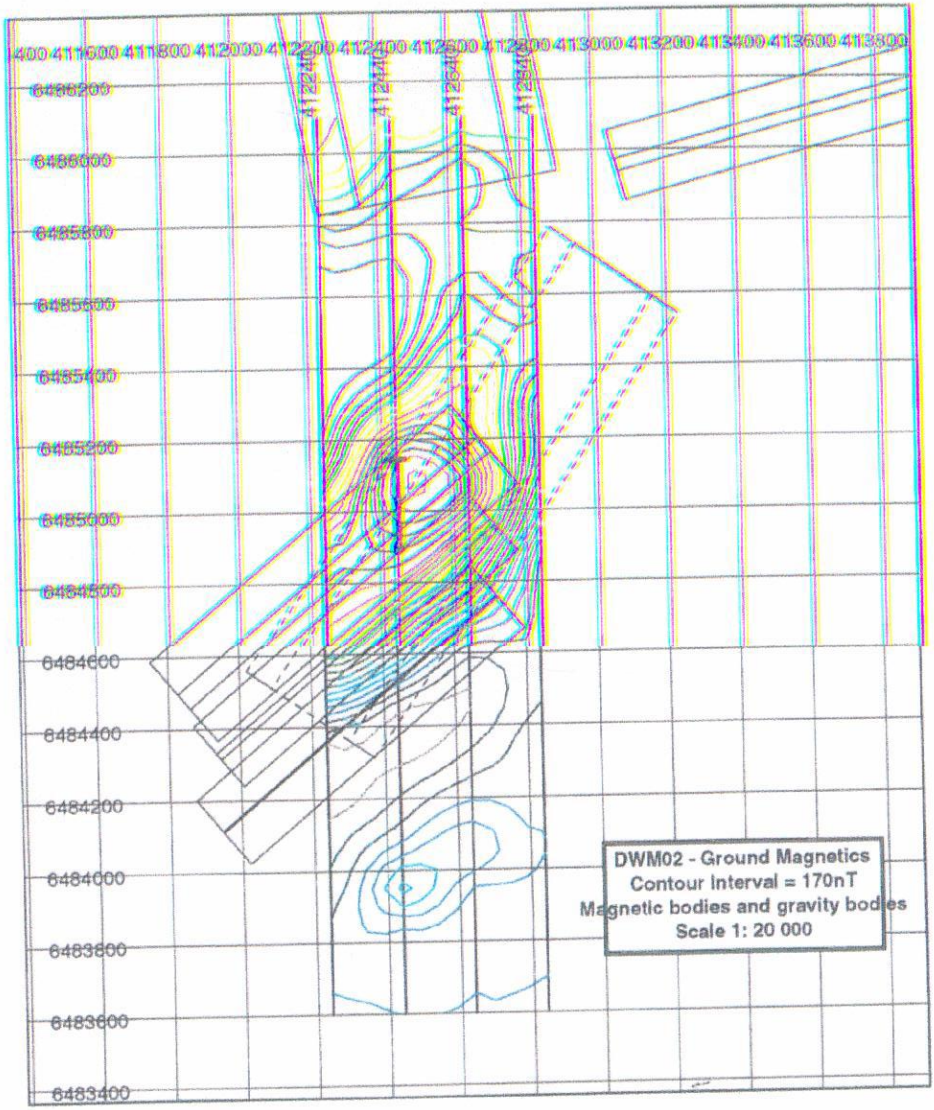

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402500
403000
403500
404000
4045
403000
403200
403400
6482500
6482000
6481500
6481000
6480500
6480000
6479500
DWM01 - Ground Magnetics
Contour Interval = 150nT
Gravity model and magnetic model shown
Scale 1: 20 000

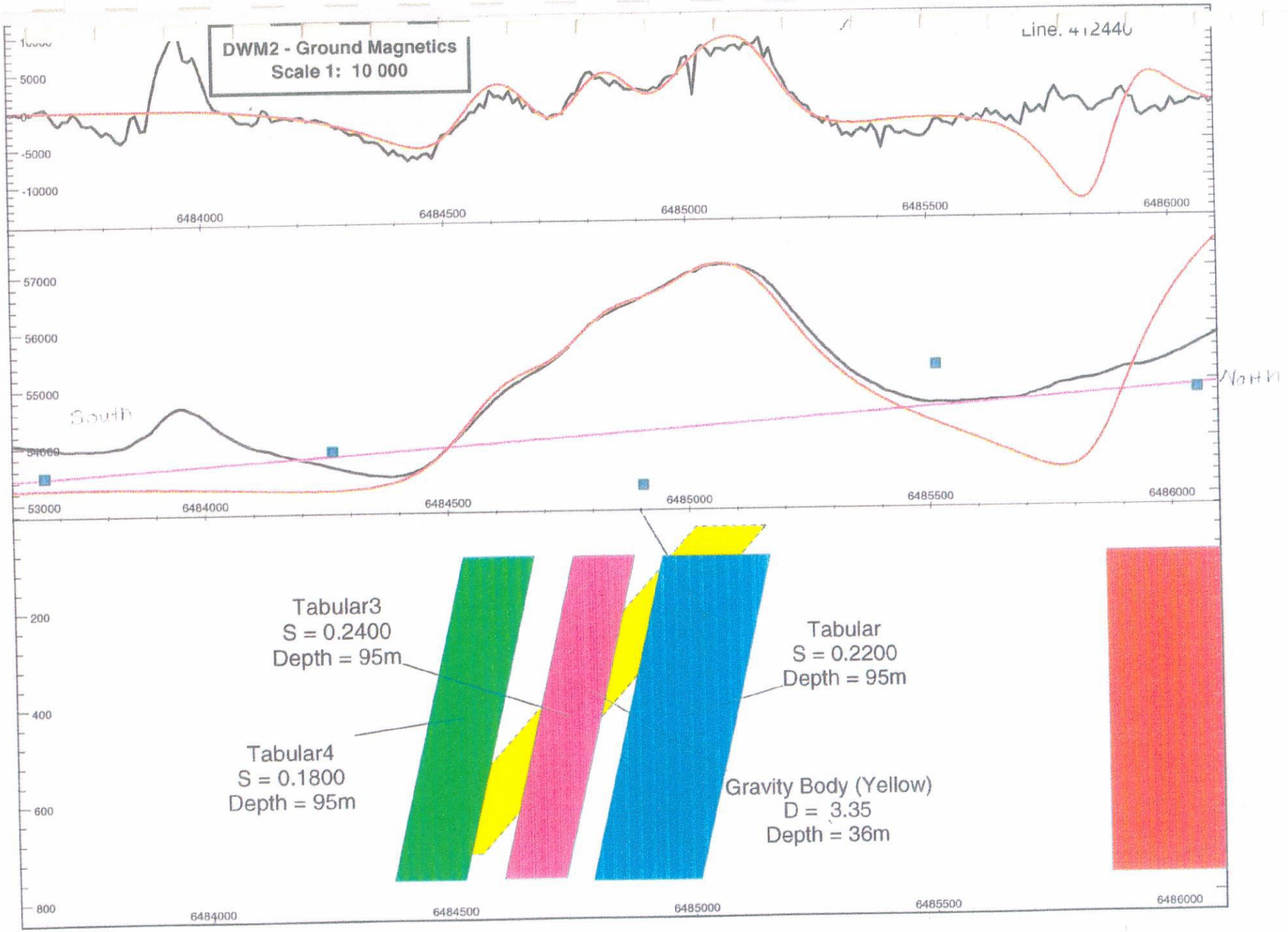


Drill hole co-ords : 403200E, 6481230N 60° → mag North.
Depth to target = 140m
Total Depth = 300m


6482600
402600 402800 403000 403200 403400 403600 403800 404000 404200
6482400
6482200
6482000
6481800
6481600
6481400
6481200
6481000
6480800
6480600
6480400
6480200
6480000
6479800
6479600
DWG01 - Gravity
Bouguer 2.4 Contours
Contour Interval = 0.1mGal
Scale 1:20 000

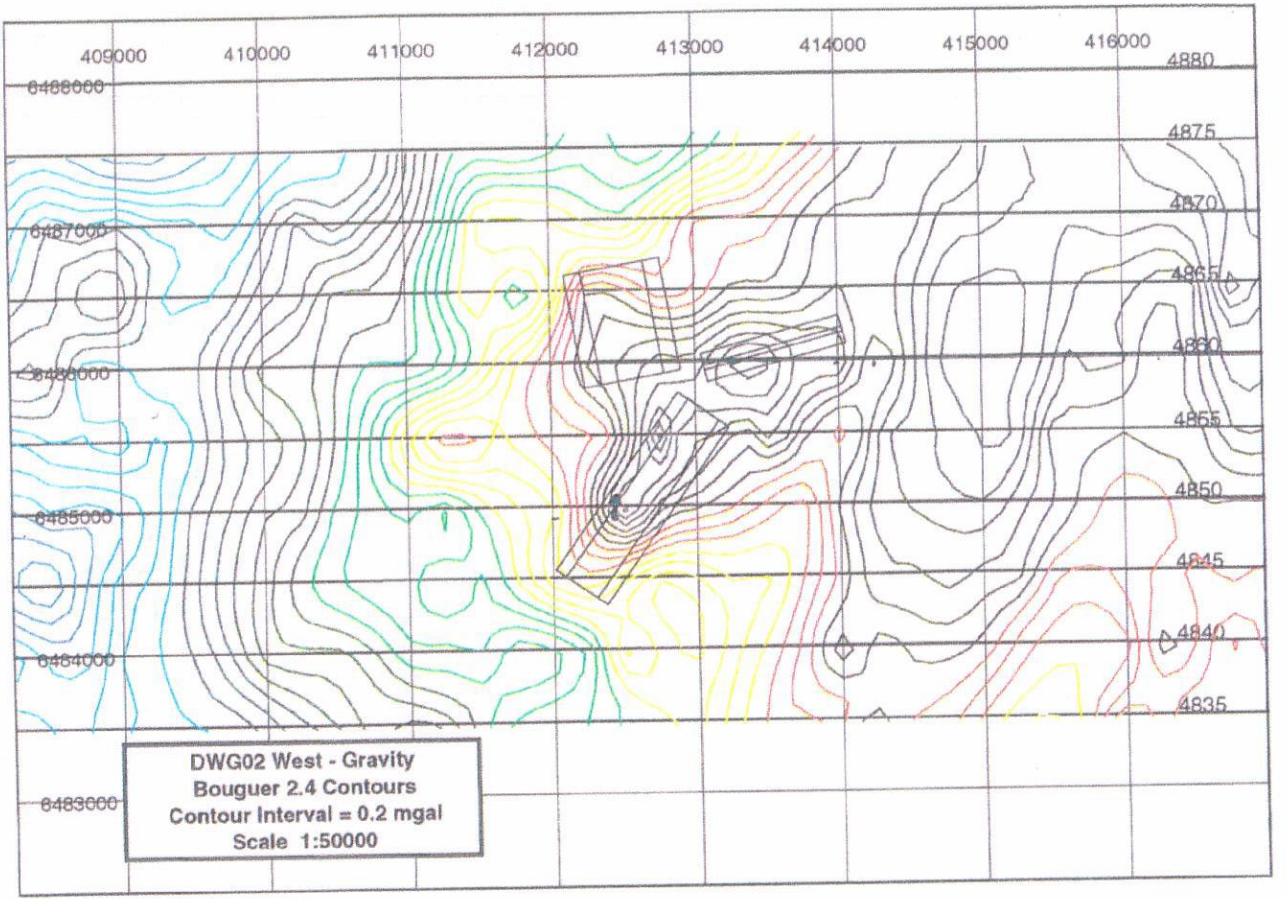

DWG01 - Gravity
Scale 1:10 000
Line: 320
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-28.0
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6480500
6481000
6481500
6482000
200
400
600
800
Sphere
D = 3.23
Depth = 162m

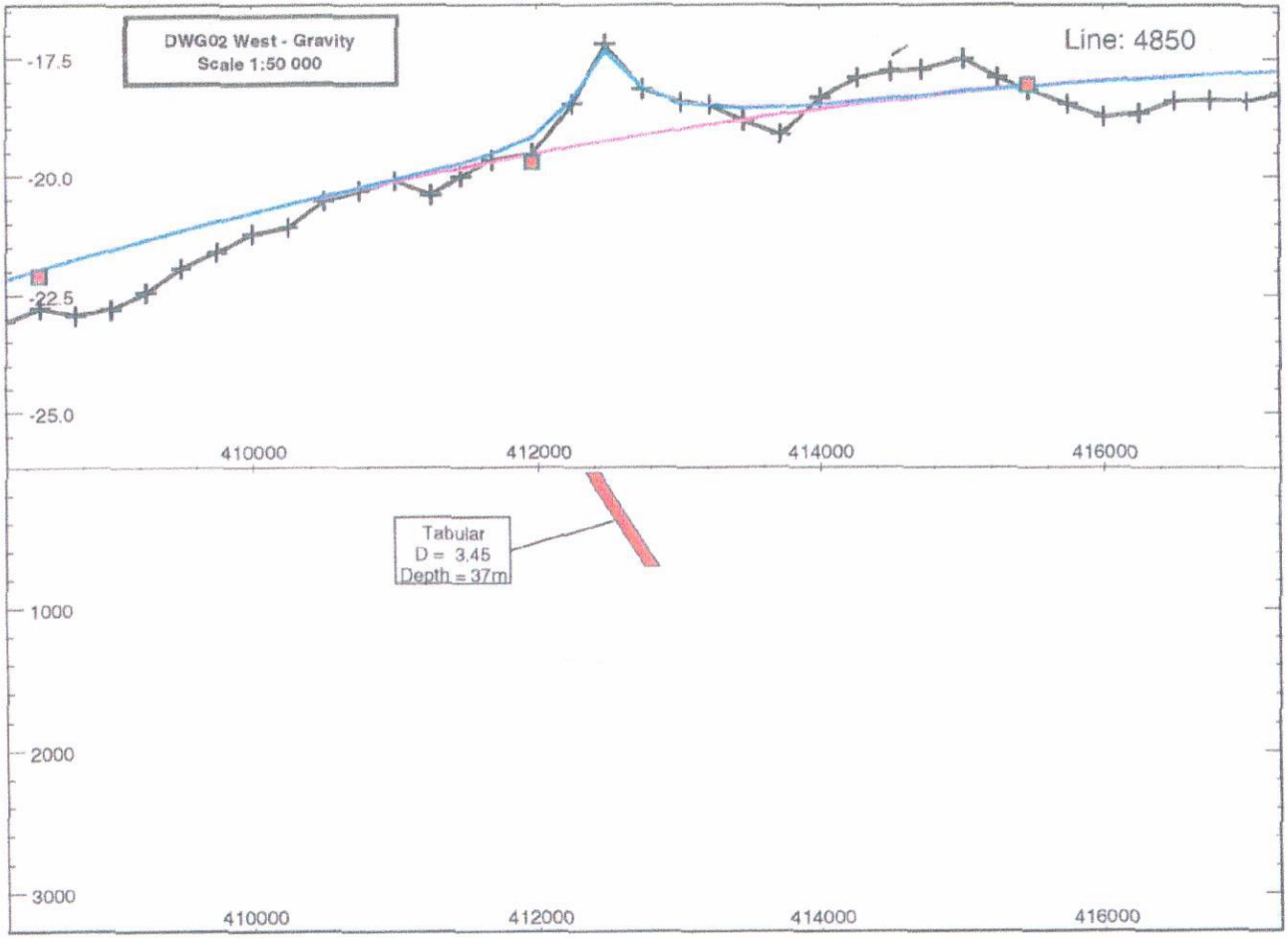

411400 411600 411800 412000 412200 412400 412600 412800 413000 413200 413400 413600 413800
412400
412400
412400
412400
6486200
6486000
6485800
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6485400
6485200
6485000
6484800
6484600
6484400
6484200
6484000
6483800
6483600
6483400
DWM02 - Ground Magnetics
Contour Interval = 170nT
Magnetic bodies and gravity bodies
Scale 1: 20 000

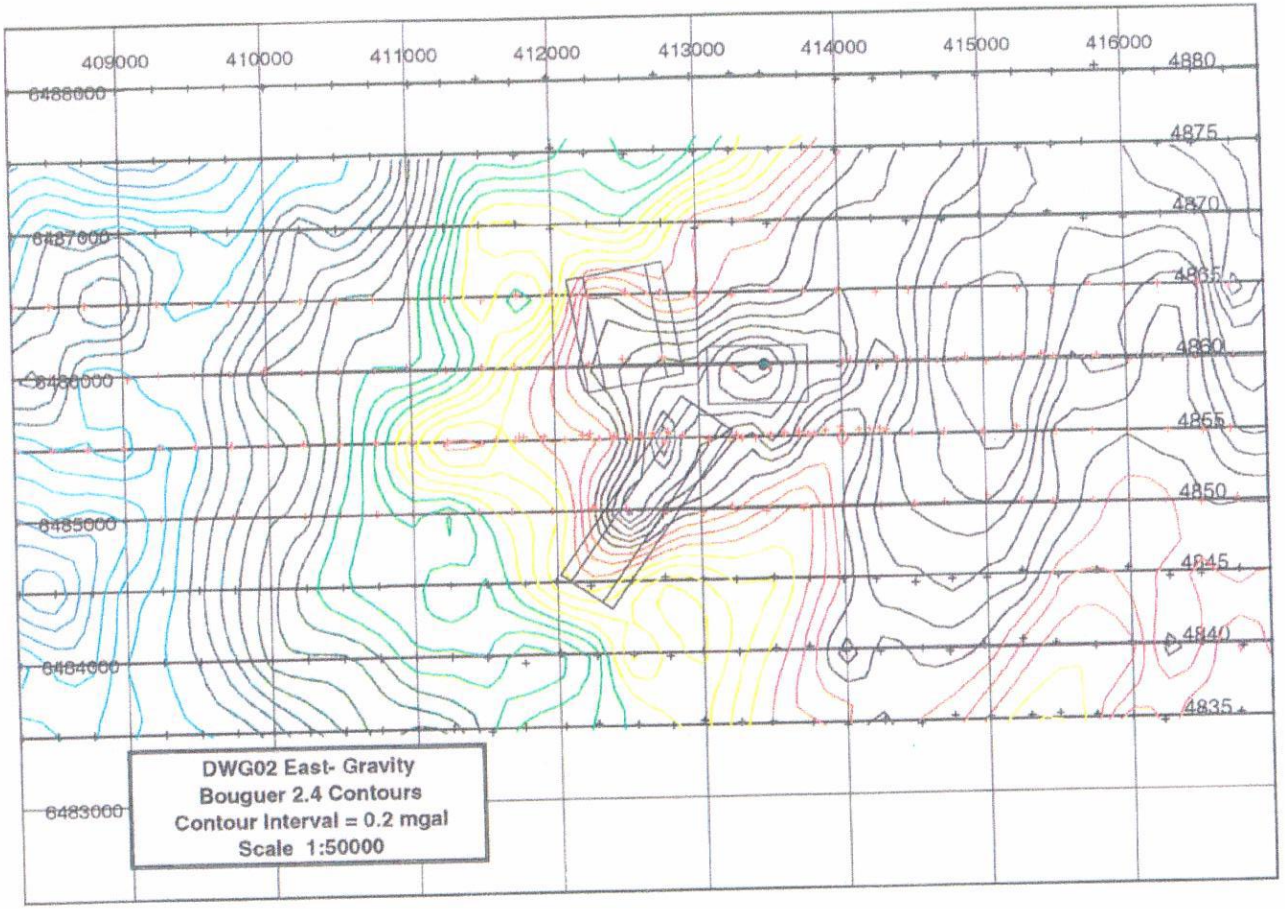


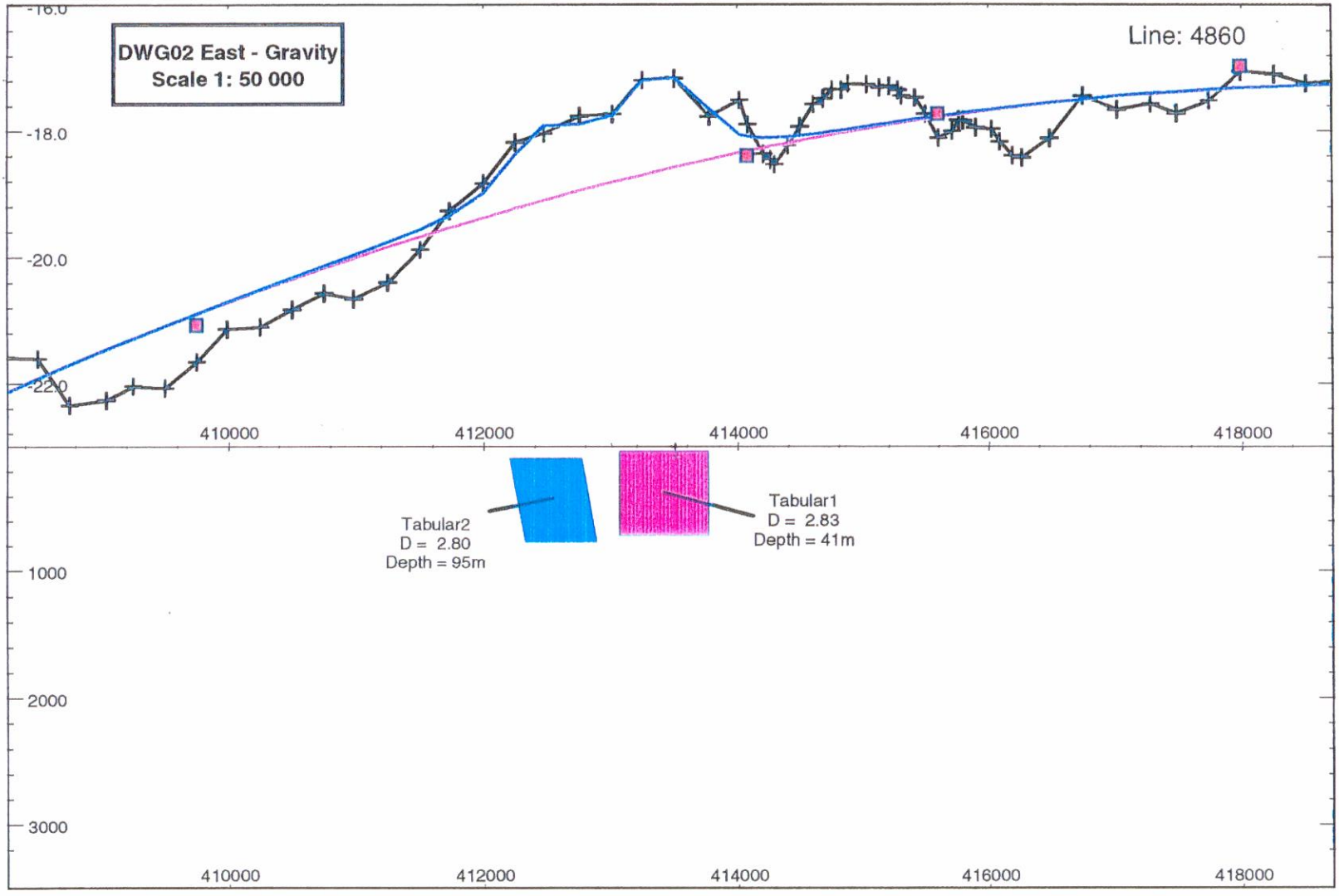
Drill Co-ords. 412440E, 6484900 N , 60° → AM6 North

Depth to Target = 110m


409000
410000
411000
412000
413000
414000
415000
416000
6488000
6487000
6486000
6485000
6484000
6483000
4880
4875
4870
4865
4860
4855
4850
4845
4840
4835
DWG02 West - Gravity
Bouguer 2.4 Contours
Contour Interval = 0.2 mgal
Scale 1:50000


DWG02 West - Gravity
Scale 1:50 000
Line: 4850
-17.5
-20.0
-22.5
-25.0
410000
412000
414000
416000
Tabular
D = 3.45
Depth = 37m
1000
2000
3000
410000
412000
414000
416000


409000
410000
411000
412000
413000
414000
415000
416000
6488000
6487000
6486000
6485000
6484000
6483000
4880
4875
4870
4865
4860
4855
4850
4845
4840
4835
DWG02 East- Gravity
Bouguer 2.4 Contours
Contour Interval = 0.2 mgal
Scale 1:50000

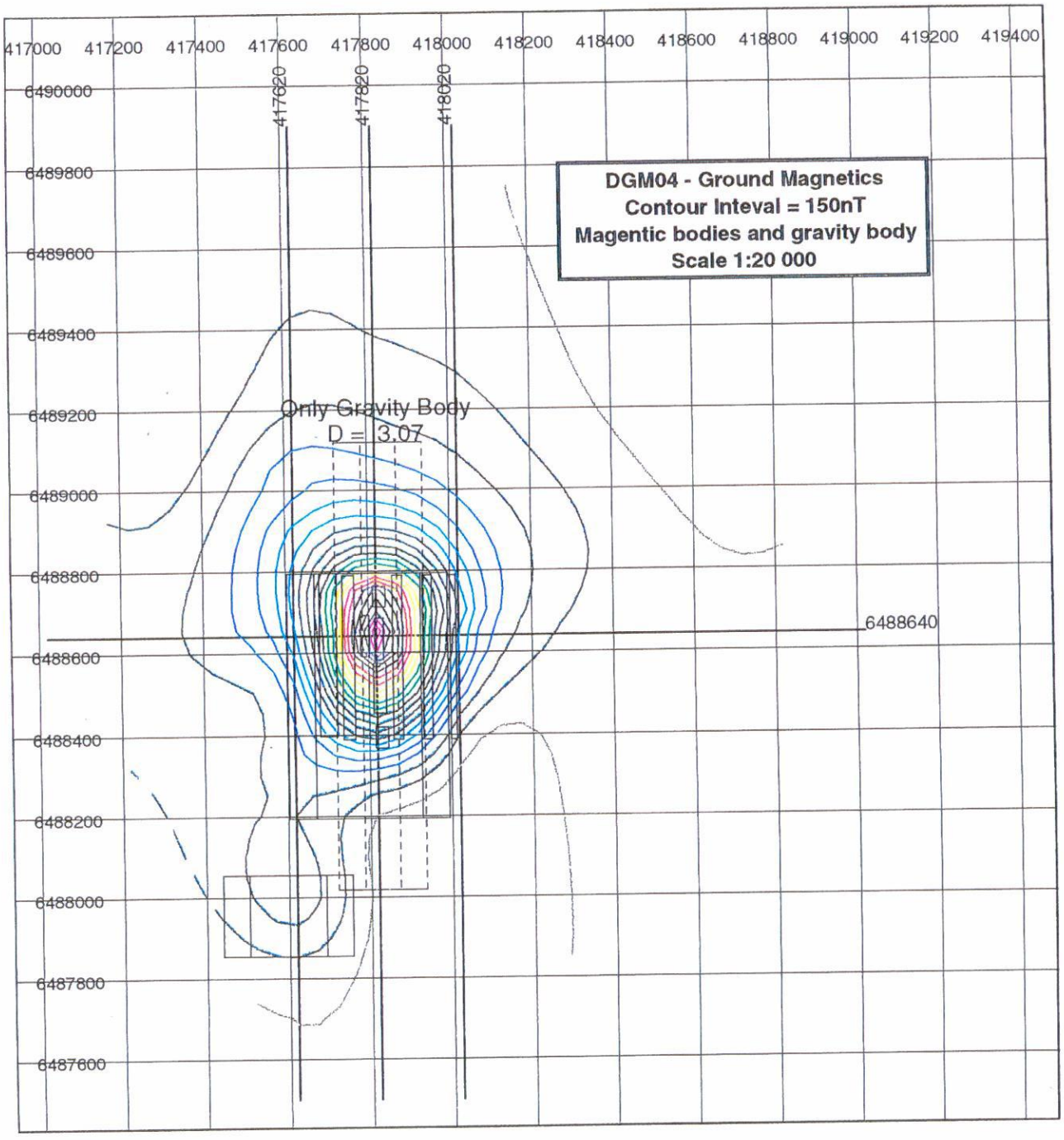


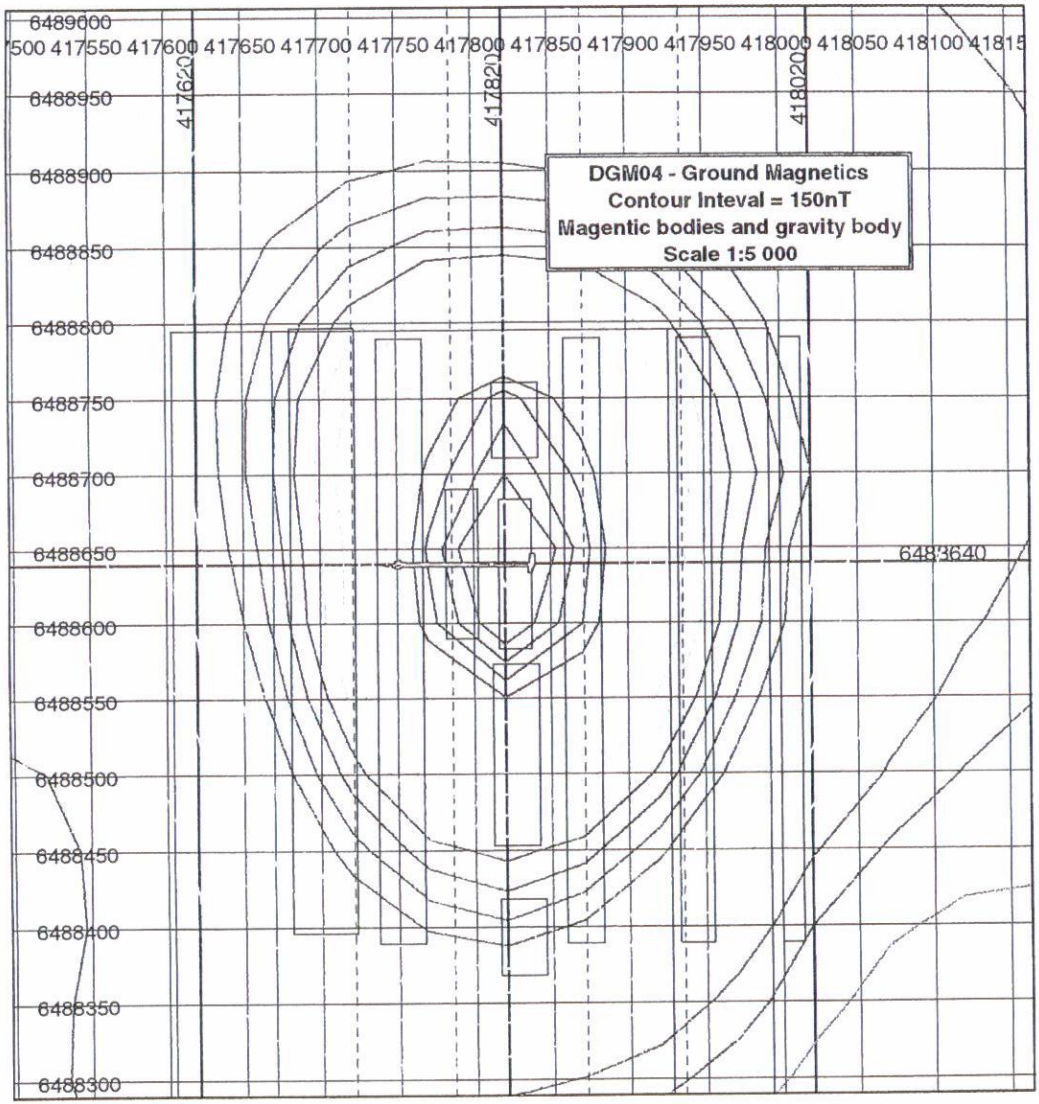
Drill co-ords. 413500E , 6486000N

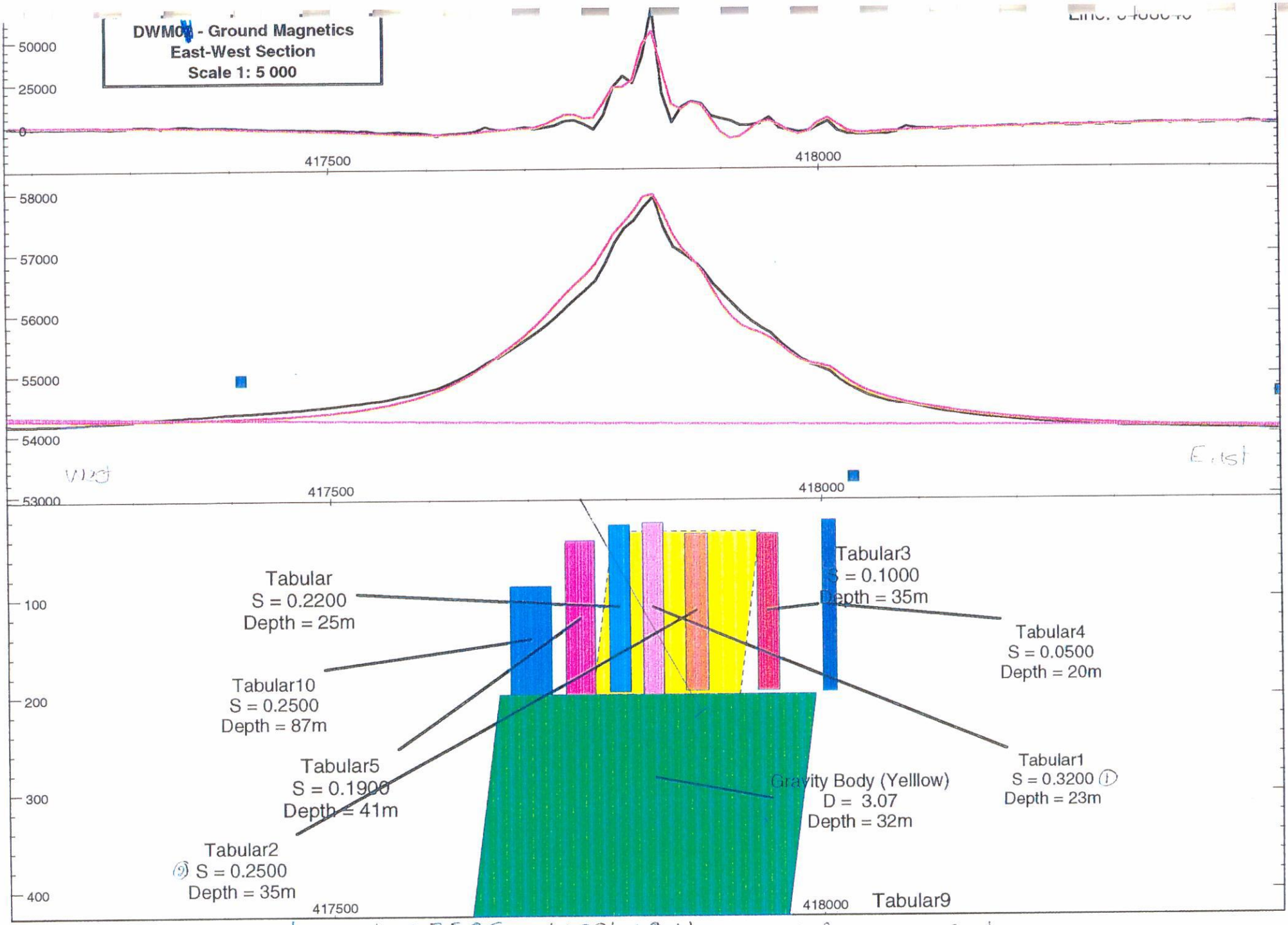
vertical hole

Total Depth 150m

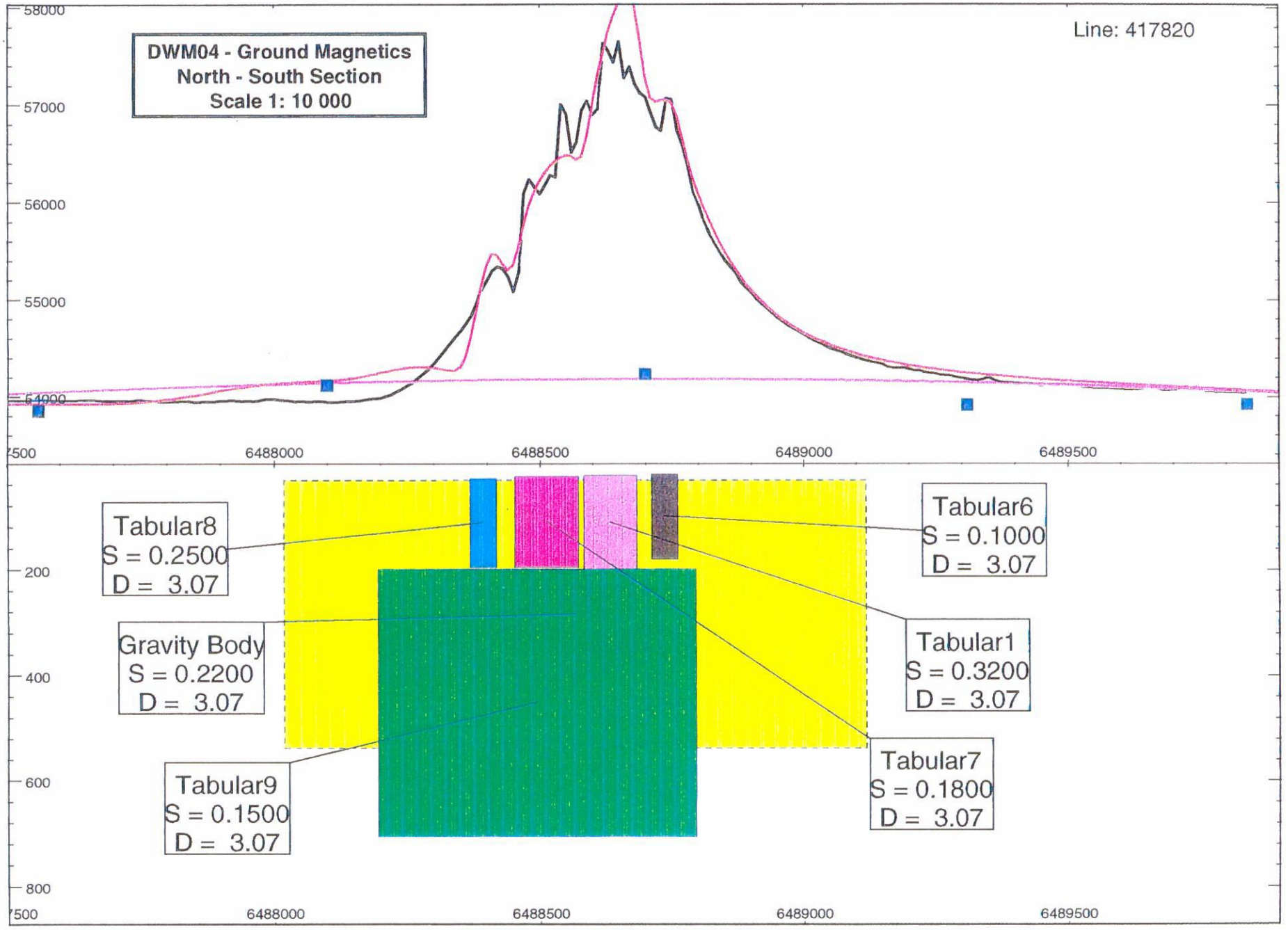
Depth to target = 41m

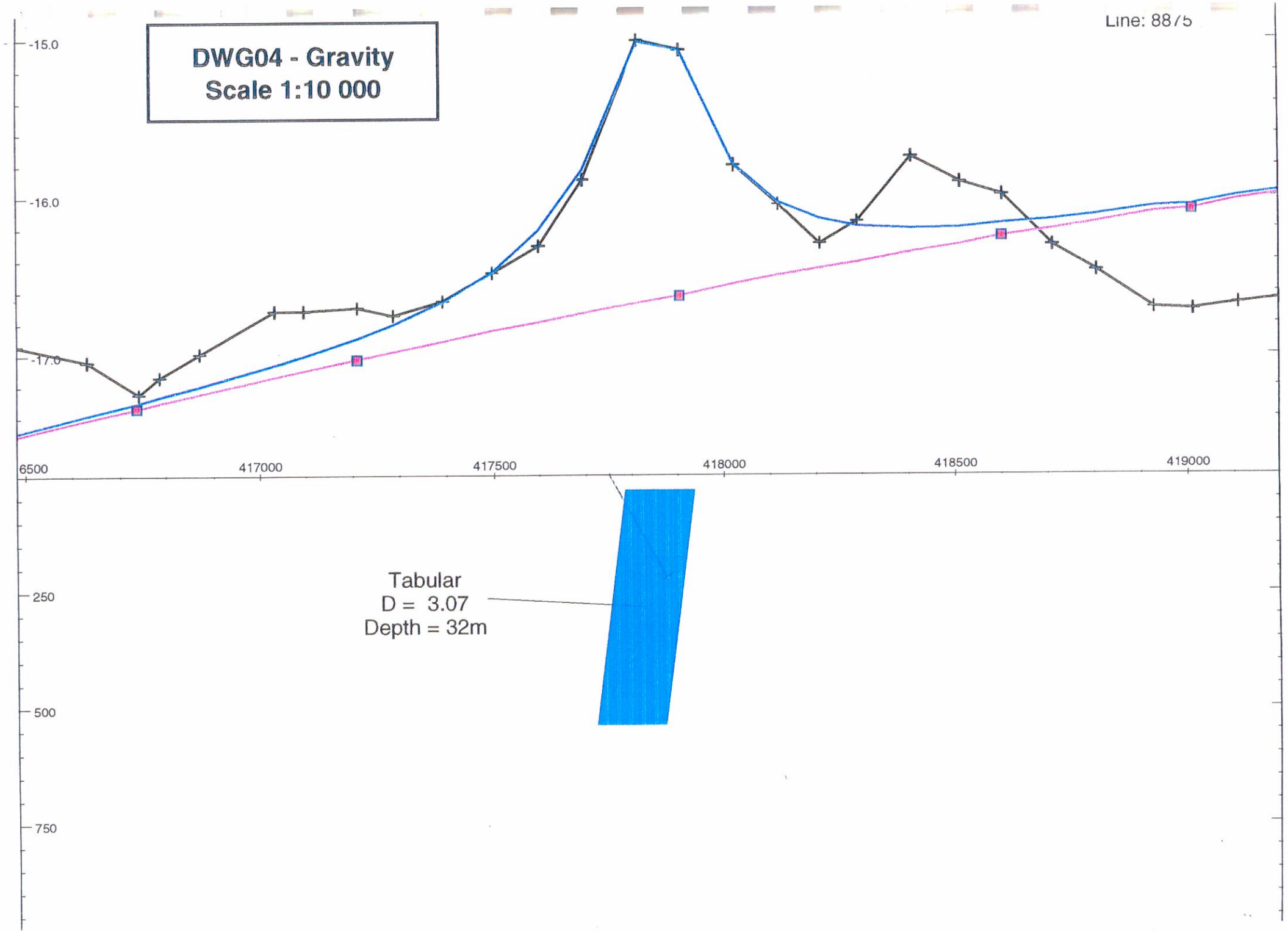

417000
417200
417400
417600
417800
418000
418200
418400
418600
418800
419000
419200
419400
6490000
6489800
6489600
6489400
6489200
6489000
6488800
6488600
6488400
6488200
6488000
6487800
6487600
417620
417820
418020
6488640
DGM04 - Ground Magnetics
Contour Inteval = 150nT
Magentic bodies and gravity body
Scale 1:20 000
Only Gravity Body
D = 3.07

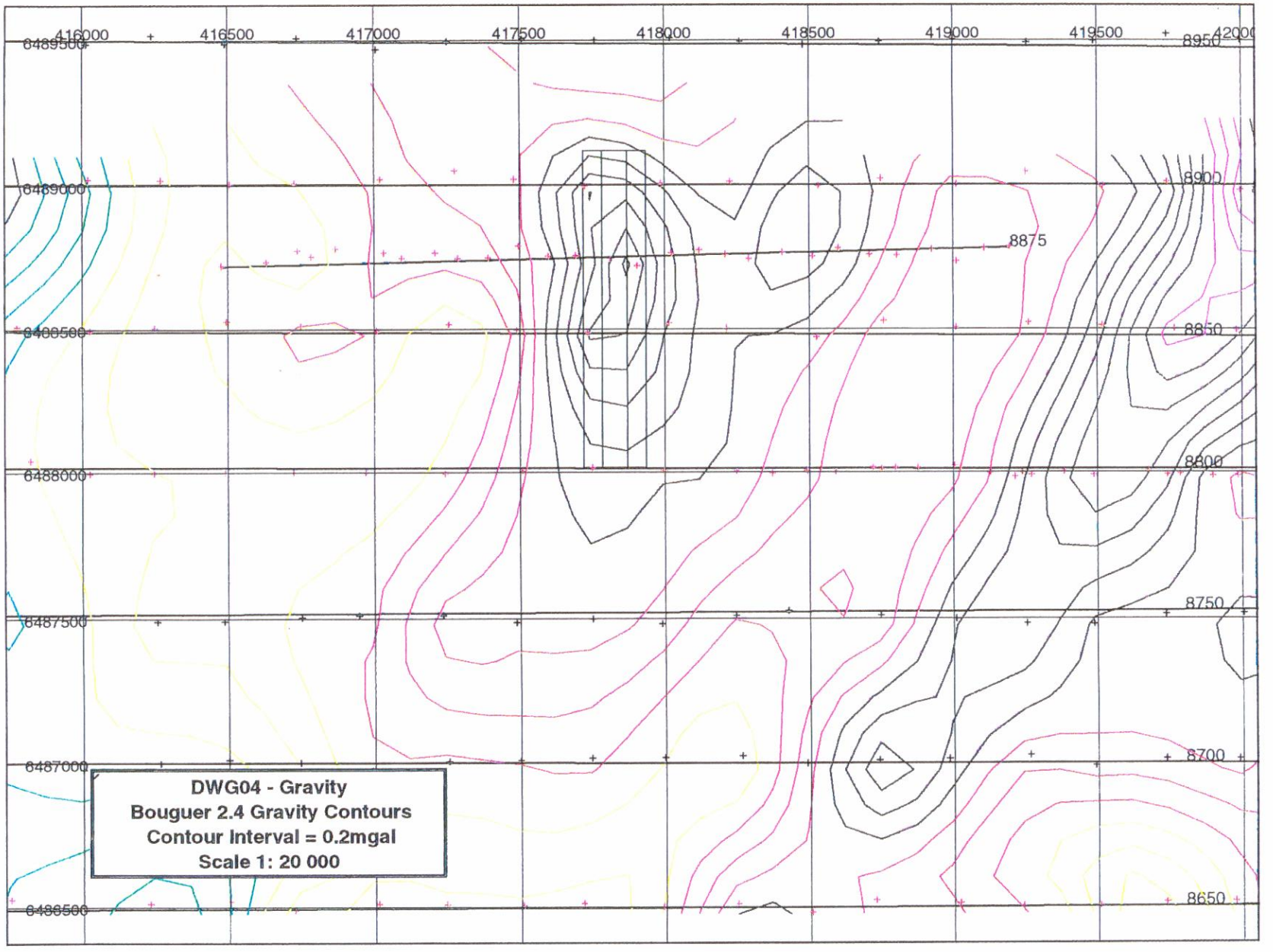

DGM04 - Ground Magnetics
Contour Inteval = 150nT
Magentic bodies and gravity body
Scale 1:5 000
6489000
6488950
6488900
6488850
6488800
6488750
6488700
6488650
6488600
6488550
6488500
6488450
6488400
6488350
6488300
417550
417600
417650
417700
417750
417800
417850
417900
417950
418000
418050
418100
417620
417820
418020
6483640

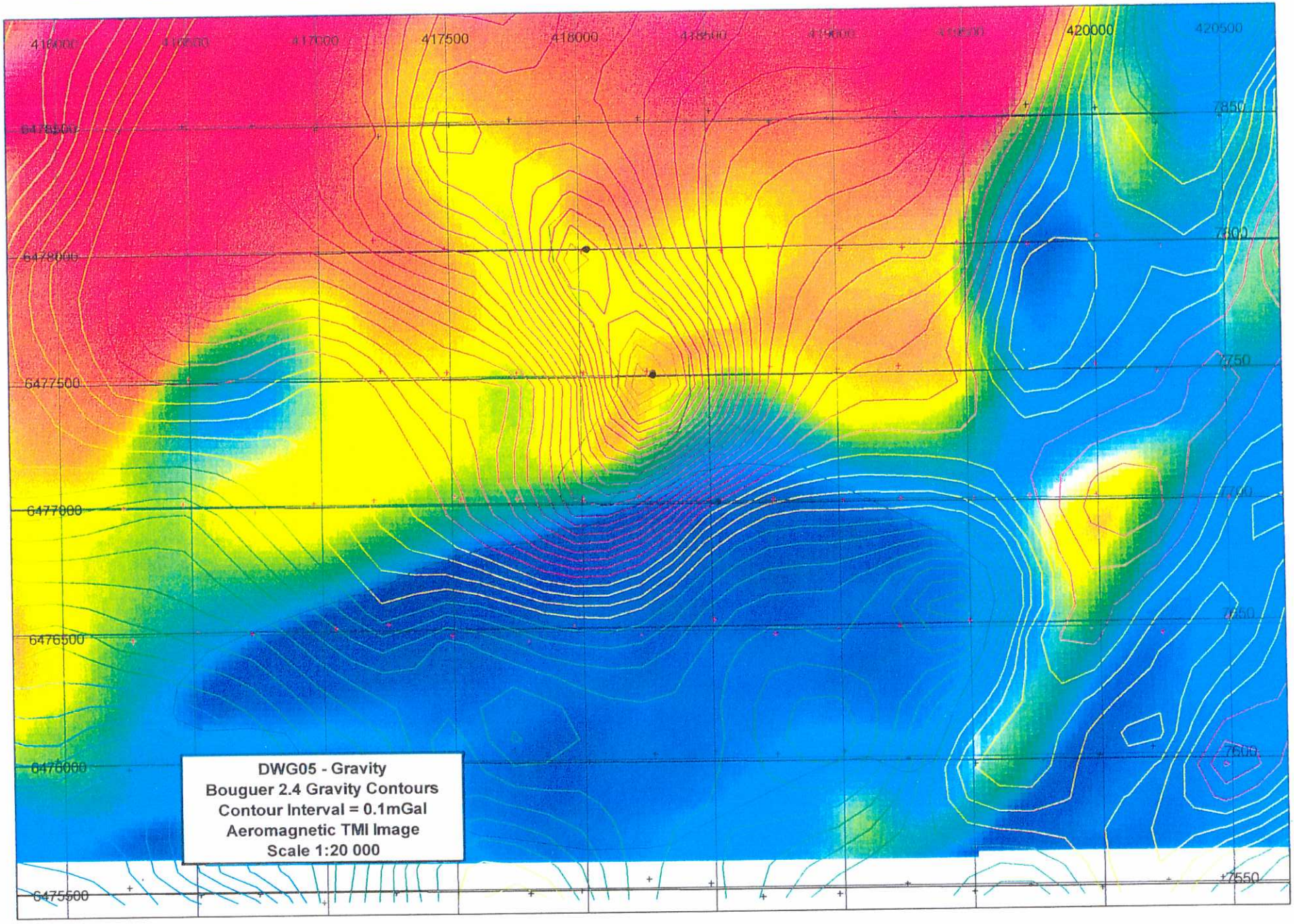


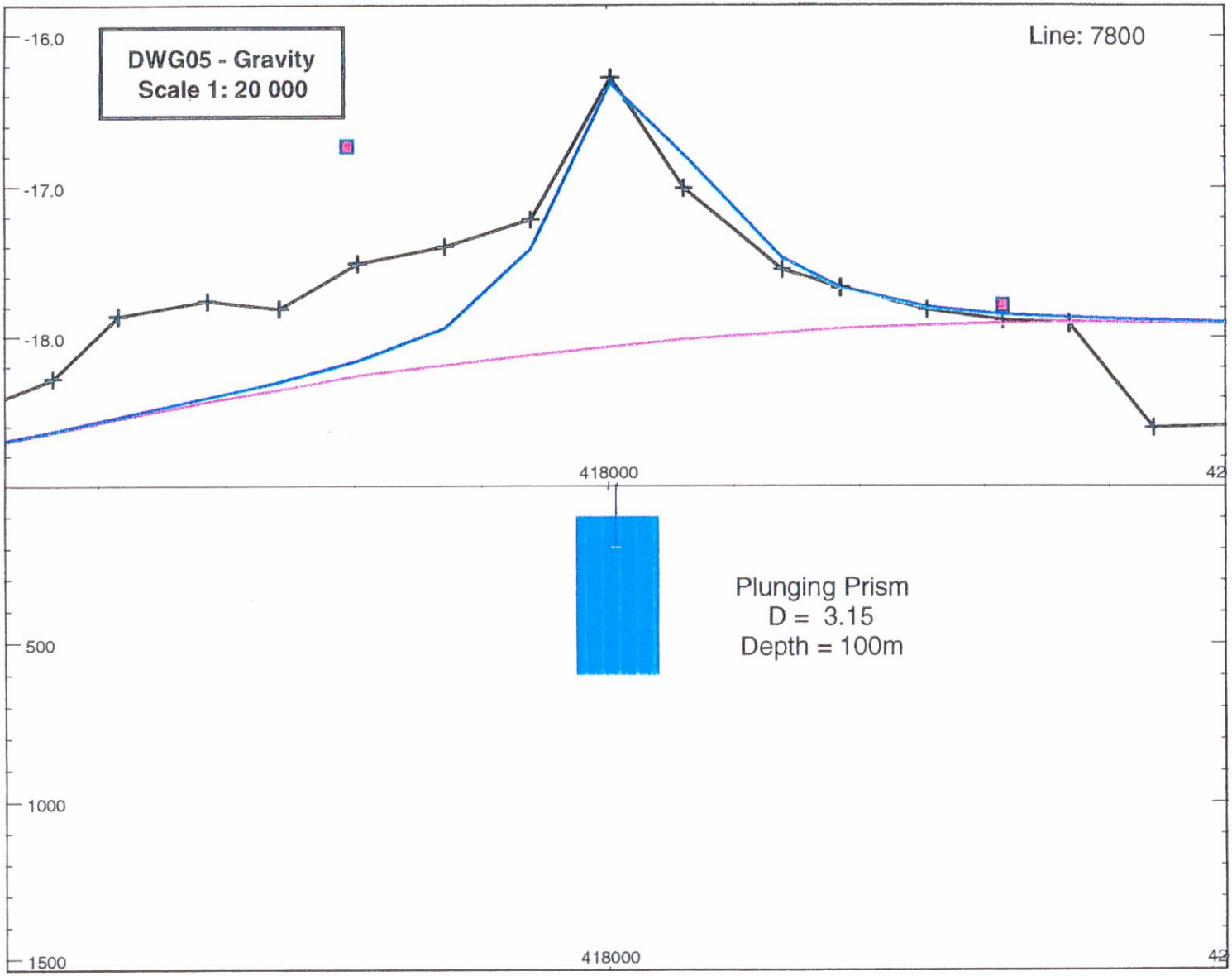
Drill co-ords 417750E, 6488640 N 60° → Azm East.
Total Depth 250m


DWM04 - Ground Magnetics
North - South Section
Scale 1: 10 000
Line: 417820
58000
57000
56000
55000
54000
6488000
6488500
6489000
6489500
Tabular8
S = 0.2500
D = 3.07
Gravity Body
S = 0.2200
D = 3.07
Tabular9
S = 0.1500
D = 3.07
Tabular6
S = 0.1000
D = 3.07
Tabular1
S = 0.3200
D = 3.07
Tabular7
S = 0.1800
D = 3.07
200
400
600
800

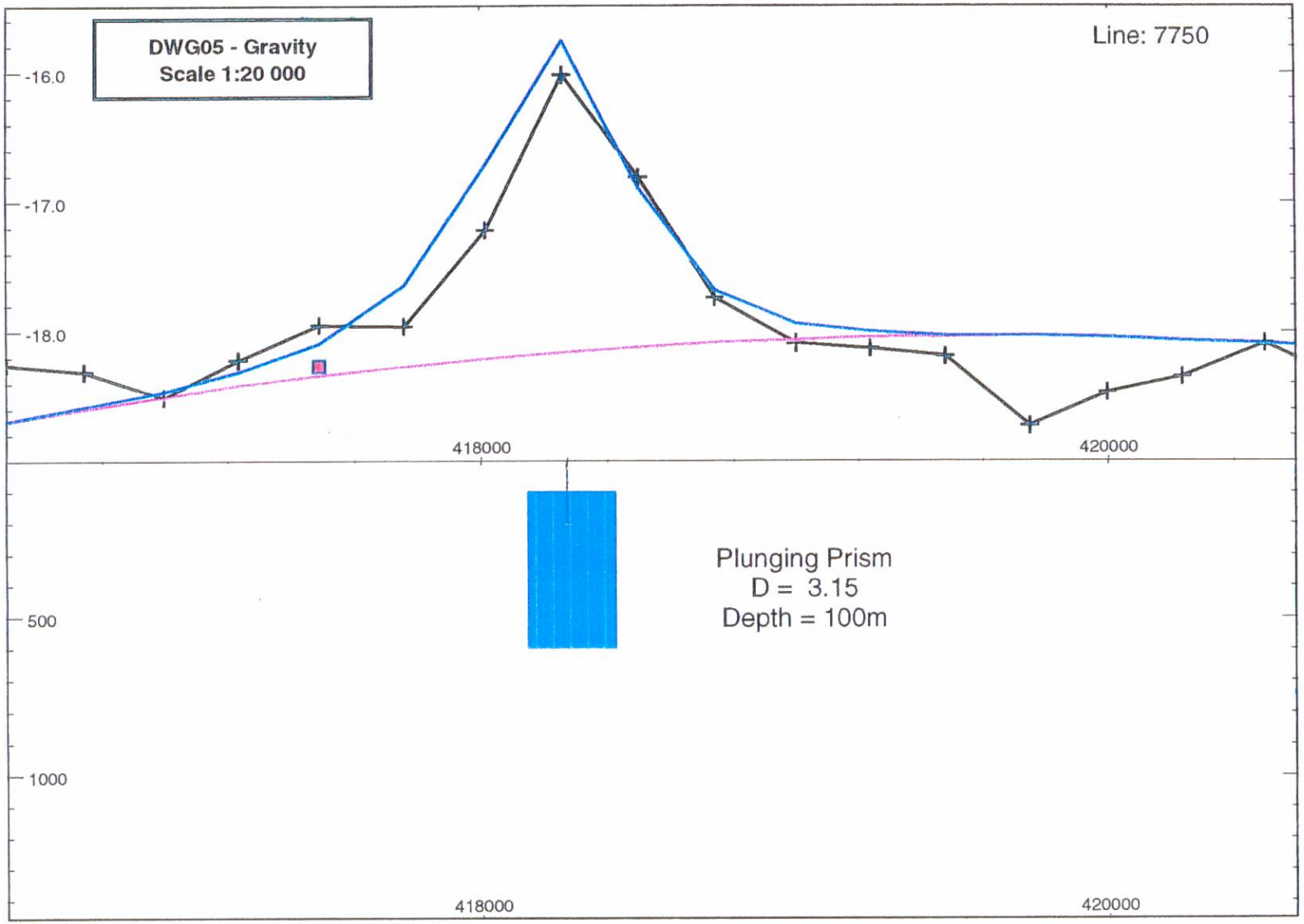

DWG04 - Gravity
Scale 1:10 000
Line: 8875
-15.0
-16.0
-17.0
6500
417000
417500
418000
418500
419000
Tabular
D = 3.07
Depth = 32m
250
500
750


416000
416500
417000
417500
418000
418500
419000
419500
420000
6489500
6489000
6488500
6488000
6487500
6487000
6486500
8950
8900
8875
8850
8800
8750
8700
8650
DWG04 - Gravity
Bouguer 2.4 Gravity Contours
Contour Interval = 0.2mgal
Scale 1: 20 000

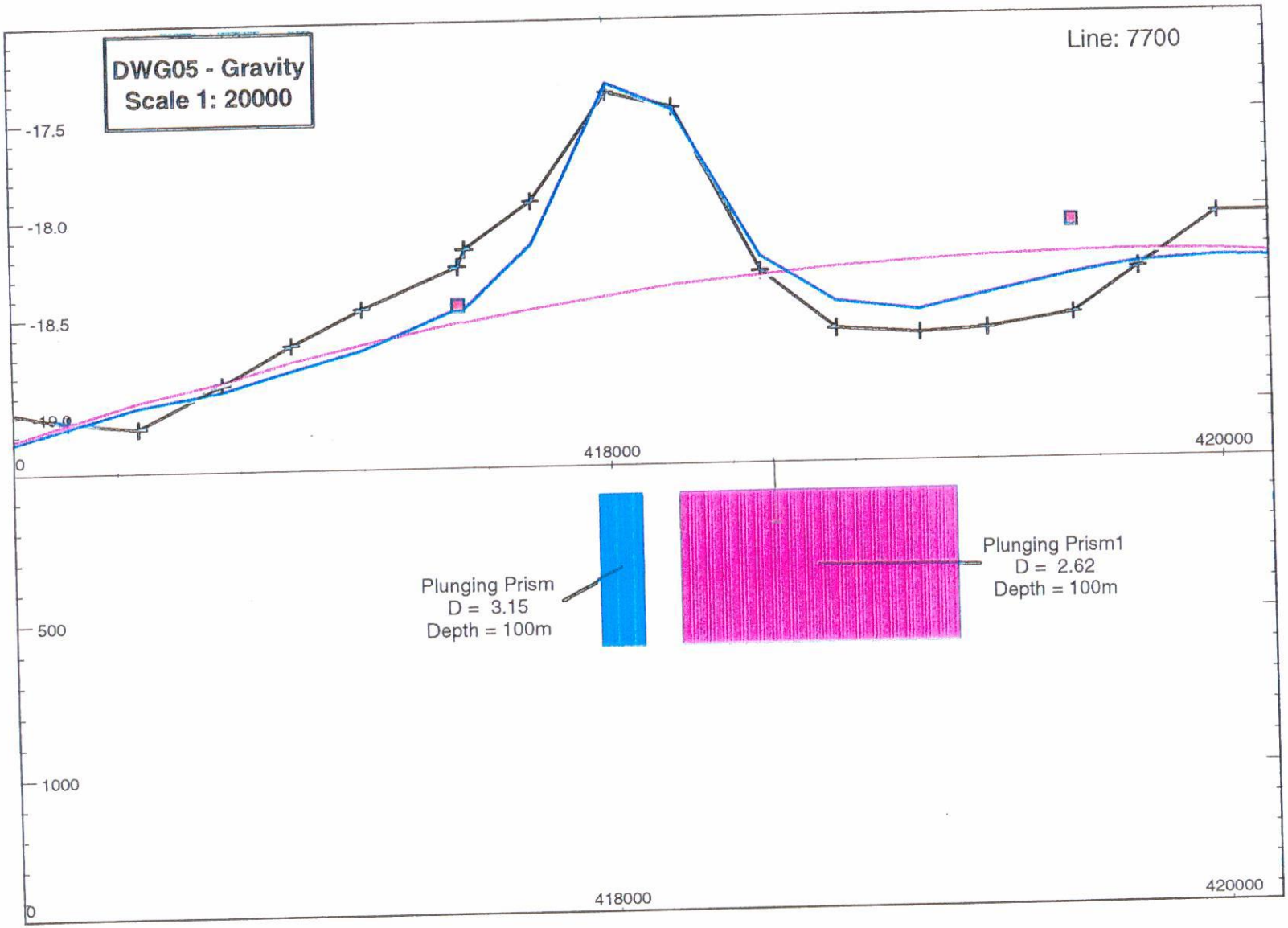

417500
418000
420000
6478000
6477500
6477000
6476500
6476000
6475500
DWG05 - Gravity
Bouguer 2.4 Gravity Contours
Contour Interval = 0.1mGal
Aeromagnetic TMI Image
Scale 1:20 000



North hole 418030E, 6478000 N
Vertical
Total Depth = 200m



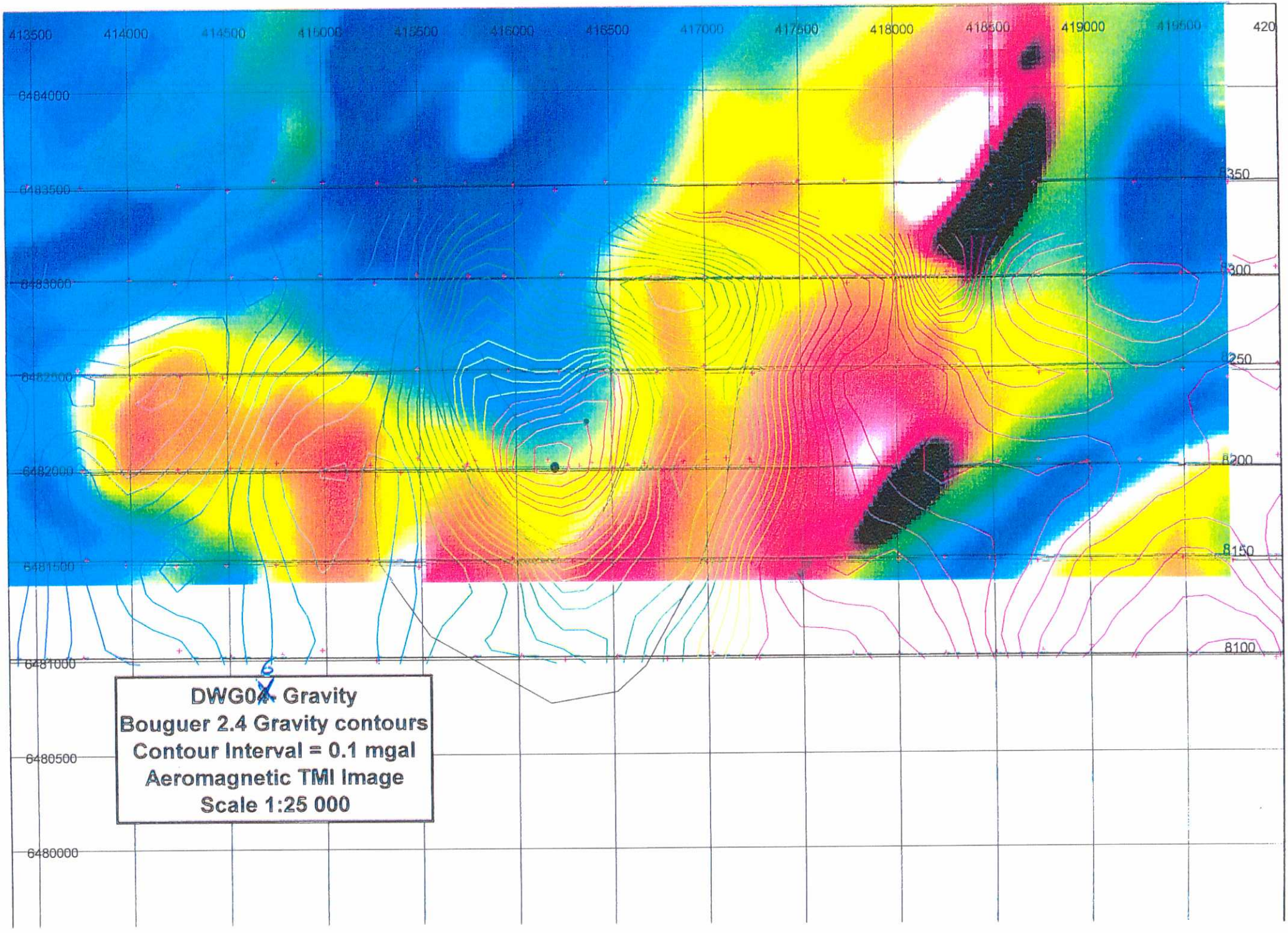
Center hole 418280E, 6477500 N
Vertical
Total depth 200m

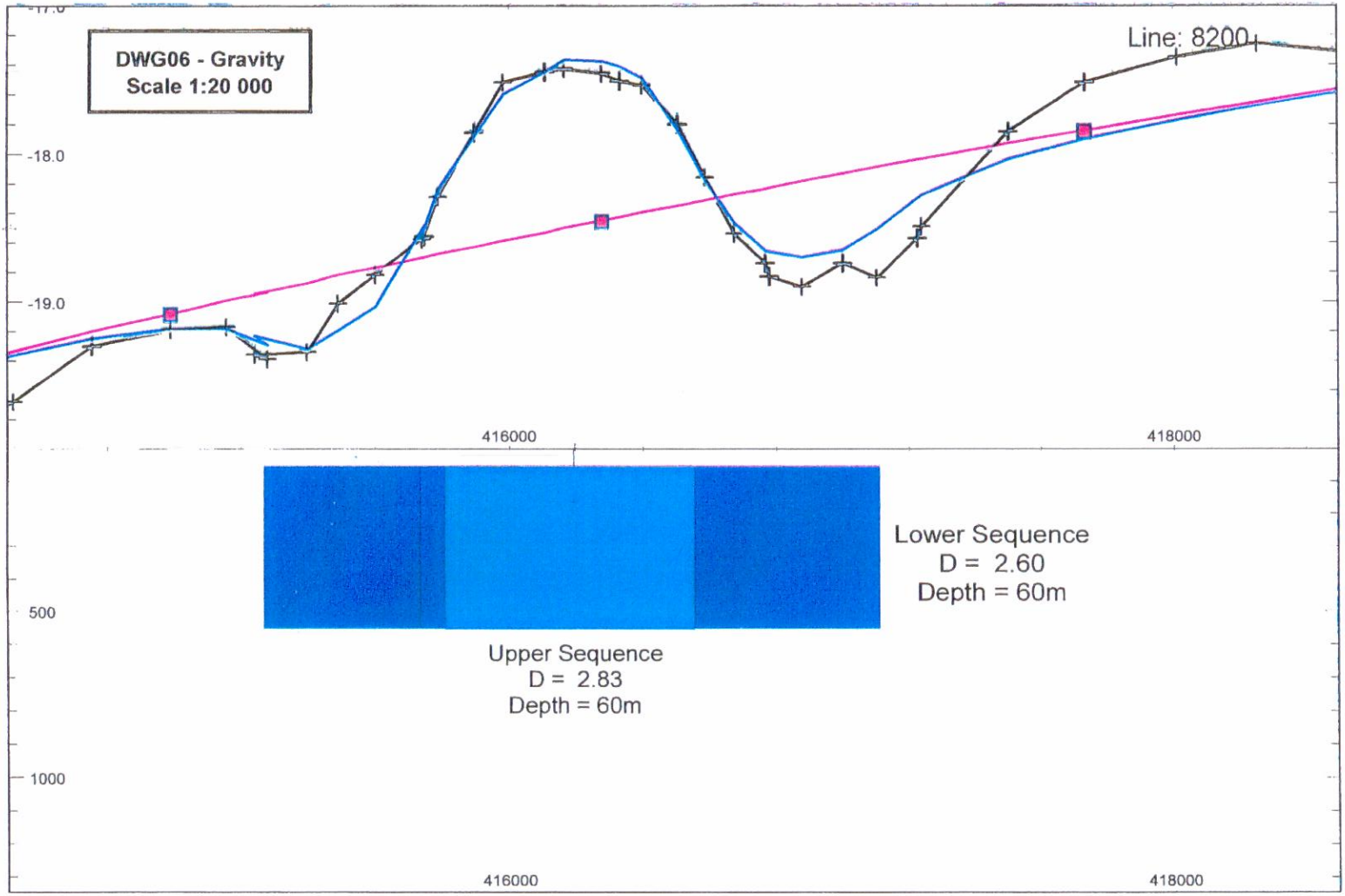


Southern hole 418530E, 6477080N

Vertical Hole

Total Depth = 200m


413500
414000
414500
415000
415500
416000
416500
417000
417500
418000
418500
419000
419500
420
6484000
6483500
6483000
6482500
6482000
6481500
6481000
6480500
6480000
8350
8300
8250
8200
8150
8100
DWG04 Gravity
Bouguer 2.4 Gravity contours
Contour Interval = 0.1 mgal
Aeromagnetic TMI Image
Scale 1:25 000



Drill hole coordinates 4169.00 E , 6189000 N

vertical

Total depth 180m

APPENDIX 3

DRILL HOLE DETAILS AND LOGS

Hole	Site	East	North	Dip	Azimuth	Depth (m)	Basement (m)	Date Start	Date Finish
DWR00001	DWM01	403200	6481230	-60	0	195	50	17/05/2000	18/05/2000
DWR00002	DWM04/DWG04	417750	6488640	-60	90	223	100	19/05/2000	20/05/2000
DWR00003	DWG002_East	413500	6486000	-90	0	140	68	20/05/2000	21/05/2000
DWR00004	DWM002_West	412440	6484900	-60	0	174	22	21/05/2000	22/05/2000
DWR00005	DWG06	416200	6482000	-90	0	180	14	22/05/2000	22/05/2000
DWR00006	DWG06	416350	6482200	-90	0	180	16	23/05/2000	23/05/2000
DWR00007	DWG05	418530	6477000	-90	0	196	12	24/05/2000	24/05/2000
DWR00008	DWG05	418280	6477500	-90	0	150	2	25/05/2000	25/05/2000
DWR00009	DWG05	418030	6478000	-90	0	150	11	25/05/2000	26/05/2000

CODE	DESCRIPTION
	Alteration
CB	banding, compositional
PD	patchy
PV	pervasive
RL	relict patches of rock
RT	main rock type is alteration feature
SF	silicification
	Amount
1	<1% widespread trace
2	1-2%
3	2-5%
4	5-10%
C	co-dominant (25-50%)
D	dominant (>50%)
M	minor (1-5%)
S	subordinate (5-25%)
T	trace (<1%)
	Flag
BS	Proterozoic basement sequence
C-	Contact
DW	depth to water
	Grain Size
0	sed=clay/ign=glass (<0.004mm)
1	sed=fine silt/ign=aphantic
2	sed=med - coarse silt/ign=aphantic
3	sed=fine sand/ign=fine
4	sed=med - coarse sand/ign=fine
5	sed=gravel/ign=medium
<	very fine-grained, aphanitic
C	coarse-grained (4mm-1cm)
F	fine-grained (<1mm)
M	medium-grained (1-4mm)
	Hue
C	Cream
E	grey
G	green
K	khaki
N	black
O	orange
R	red
U	brown
W	white
Y	yellow
	Mineral
AB	albite/albitisation
AX	amphibole
BI	biotite
BL	bleaching
C-	calc-silicate
CA	calcite
CB	carbonate
CL	chlorite
CY	clay

CODE	DESCRIPTION
EP	epidote
FD	feldspar
FE	iron oxides
GA	garnet
GO	goethite
GR	graphite
HB	hornblende
HE	hematite
KA	kaolinite
KF	K-feldspar/orthoclase
LI	limonite
MA	magnetite
MI	mica
MN	manganese
MU	muscovite
PY	pyrite
QZ	quartz
S=	sulphides
SC	scapolite
SI	sillimanite
SP	sphalerite
SR	sericite
SS	siliceous alteration
ST	staurolite
	Percentage
<	rare trace (<<1%)
1	<1% widespread trace
2	1-2%
3	2-5%
4	5-10%
C	co-dominant (25-50%)
D	dominant (>50%)
M	minor (1-5%)
S	subordinate (5-25%)
T	trace (<1%)
	Qualifier
<V	microveined (<2mm)
>V	macroveined (>2mm)
??	possible
AA	altered
AB	albitised, albitic
BN	banded
BX	brecciated
C-	contact zone
CA	calcareous, limey
CH	cherty
CV	cavernous
CY	clayey / clay size
F-	faulted
FD	feldspathic
FE	ferruginous
FR	fracture zone, fractured
GE	goethitic
GL	granulose, granular
GR	granitic
GV	gravelly

CODE	DESCRIPTION
HE	hematitic
IG	igneous
K+	potassic
KA	kaolinitic
LM	laminated
MA	magnetite-bearing
MF	mafic
MI	micaceous
MS	massive
PE	pelitic
PI	pisolitic
PS	psammitic
QZ	quartzitic, quartzose
RR	red rocked (HE + AB)
S-	sheared
SA	sandy
SC	schistose
SF	silicified
SI	silty / silt size grains
SP	spotty, spotted
SR	sericitic
SS	siliceous

Rock Type

ABMA	albite-magnetite rock
AMFB	amphibolite
CLAY	clay
DIOR	diorite
FAZN	fault zone
FEZN	ferruginous zone
GRAN	granite
GRDR	granodiorite
INTR	intrusive
IRON	ironstone
LATR	laterite
LRMO	laterite mottled zone
LRPL	laterite pallid zone
MTSD	metasediment
PELT	pelite
PSAM	psammite
PSPE	psammopelite
QMBF	quartz-magnetite BIF
QZDR	quartz diorite
QZIT	quartzite
QZVN	quartz vein
SAND	sand
SCHS	schist
SEDM	sediment
SISN	Silty Sandstone
SNST	sandstone
UNRK	unknown rock

Weather

0	not weathered
3	low (weakly, minor)
5	moderately
7	highly
9	extremely highly

NAME	DESCRIPTION
AA	Alteration Amount
AA2	Alteration Amount 2
AGE	Geological Age
AT1	1st Alteration Type
AT1M1	1st Alteration Type Mineral 1
AT1M2	1st Alteration Type Mineral 2
AT1M3	1st Alteration Type Mineral 3
AT2	2nd Alteration Type
AT2M1	2nd Alteration Type Mineral 1
AT2M2	2nd Alteration Type Mineral 2
CP	Sulphides and/or Oxides – Chalcopyrite
FLAG	Flag
GA_GSIZE	Garnet Grain Size
GA_PERC	Garnet Percentage
GAMMA	Gamma Radiation
GSIZE	Grain Size
GSIZE2	Grain Size 2
MAGSUS	Magnetic Susceptibility
PO	Sulphides and/or Oxides – Pyrrhotite
PY	Sulphides and/or Oxides – Pyrite
PY	Sulphides and/or Oxides – Pyrite
RH1	1st Rock Hue
RH2	2nd Rock Hue
RT1	Major Rock Type
RT2	Second Major Rock Type
RT2Q1	Rock Type 2 Qualifier 1
RT2Q2	Rock Type 2 Qualifier 2
RTM1	1st Rock Type Mineral
RTM2	2nd Rock Type Mineral
RTM3	3rd Rock Type Mineral
RTM4	4th Rock Mineral
RTM5	5th Rock Type Mineral
RTQ1	Major Rock Type Qualifier
RTQ2	2nd Major Rock Type Qualifier
RTT1	Major Rock Type Texture
RTT2	2nd Major Rock Type Texture
SMQ1	1st Sulphide Mineralisation Qualifier
SMQ2	2nd Sulphide Mineralisation Qualifier
VEINPC	Total Percentage Veining
VEINQUAL	Veining Qualifier
VTM1	1st Veining Type Mineral
VTM2	2nd Veining Type Mineral
VTM3	3rd Veining Type Mineral
VTM4	4th Veining Type Mineral
WEATHER	Weathering

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00001	0	4		QUA		CLAY	CA					F		U					
DWR00001	4	6		QUA		CLAY			CLAY	CA		0	F	U					
DWR00001	6	8		TER		CLAY			SAND	PI		0	M	U					
DWR00001	8	10		TER		CLAY			SAND			0	M	O	U				
DWR00001	10	12		TER		CLAY	MI	QZ				0		O	U				
DWR00001	12	14		TER		CLAY	SA					F		U					
DWR00001	14	18		TER		CLAY			SAND			0	M	U					
DWR00001	18	20		TER		CLAY						0		U					
DWR00001	20	22		TER		CLAY						0		R	U				
DWR00001	22	24		TER		CLAY						0		U					
DWR00001	24	26		TER		CLAY						0		K	U				
DWR00001	26	28		TER		CLAY						0		U					
DWR00001	28	34		TER		CLAY	SA					0		O	U				
DWR00001	34	36		TER		CLAY			SAND			0	F	O	U				
DWR00001	36	38		TER		CLAY	SA					0		O	U				
DWR00001	38	42		TER		CLAY						0		O	U				
DWR00001	42	46		TER		CLAY						0		R	O				
DWR00001	46	48		TER		CLAY						0		C	U				
DWR00001	48	50		TER		CLAY			LATR			0		C	U				
DWR00001	50	52	BS	LPR	9	CLAY	FE		CLAY	KA		0		R	U				
DWR00001	52	54		LPR	9	CLAY	KA					0		C	U				
DWR00001	54	58		LPR	9	CLAY						0		O	U				
DWR00001	58	66		LPR	9	CLAY						0		K	U				
DWR00001	66	70		LPR	7	CLAY			MTSD	??	PS	0	M	K	U		MS		
DWR00001	70	78		LPR	5	MTSD	SS	FE				M		U		GR			
DWR00001	70	78																	
DWR00001	78	80		LPR	3	MTSD	FE		IRON			M	1	U		MS	MS		
DWR00001	80	82		LPR	3	IRON			PSAM	QZ	FD	1	M	U		LM	MS		
DWR00001	80	82																	
DWR00001	82	84		LPR	3	MTSD	QZ	FD	IRON			M	1	U		MS	MS		
DWR00001	82	84																	
DWR00001	84	86	DW	LPR	5	MTSD	QZ	FD	ABMA	FE		M	1	U		MS	BN		
DWR00001	84	86																	
DWR00001	86	88		LPR	5	MTSD	SS	MA	MTSD			1	M	U		MS	MS		
DWR00001	86	88																	
DWR00001	88	90		LPR	5	MTSD	C-	QZ	ABMA	FE		M	1	U		MS	MS		

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00001	88	90																	
DWR00001	90	92		LPR	5	ABMA	FE					1		U		MS			
DWR00001	90	92																	
DWR00001	92	94		LPR	3	MTSD			AMFB	??		F	F	U		MS	MS		
DWR00001	94	96		LPR	3	IRON	FE		MTSD	FE		1	F	U		MS	MS		
DWR00001	94	96																	
DWR00001	96	98		LPR	3	MTSD	??	AA	ABMA	FE		F	1	U		MS	MS		
DWR00001	96	98																	
DWR00001	98	100		LPR	3	ABMA	FE		INTR			1	M	U		MS	GR		
DWR00001	98	100																	
DWR00001	100	102		LPR	3	GRAN						M		U		GR			
DWR00001	100	102																	
DWR00001	102	104		LPR	3	MTSD	AB		INTR	??		M	M	U		MS	GR		
DWR00001	102	104																	
DWR00001	104	110		LPR	3	MTSD	??	F-				M		G	U	IG			
DWR00001	104	110																	
DWR00001	110	112		LPR	3	MTSD	AB		GRAN			M	M	G	U	MS	GR		
DWR00001	110	112																	
DWR00001	112	114		LPR	3	MTSD						M		G	U	MS			
DWR00001	112	114																	
DWR00001	114	116		LPR	3	MTSD			IRON	HE		M	F	G	U	MS	BN		
DWR00001	114	116																	
DWR00001	116	118		LPR	3	MTSD						M		G	U	MS			
DWR00001	116	118																	
DWR00001	118	120		LPR	0	MTSD			QZDR	MF		M	M	E	U	MS	GR		
DWR00001	118	120																	
DWR00001	120	124		LPR	0	DIOR	MF					M		E		IG			
DWR00001	120	124																	
DWR00001	124	128		LPR	0	DIOR	MF					M		E		IG			
DWR00001	124	128																	
DWR00001	128	132		LPR	0	DIOR	MF					M		E		IG			
DWR00001	128	132																	
DWR00001	132	134		LPR	0	DIOR	MF					M		E		IG			
DWR00001	132	134																	
DWR00001	134	136		LPR	0	DIOR	MF		GRDR			M	M	E		IG	GR		
DWR00001	134	136																	
DWR00001	134	136																	
DWR00001	136	138		LPR	0	DIOR	MF					M		E		IG			
DWR00001	136	138																	

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00001	138	140		LPR	0	DIOR	MF		GRDR			M	M	E		IG	GR		
DWR00001	138	140																	
DWR00001	140	142		LPR	0	DIOR	MF					M		E		IG			
DWR00001	140	142																	
DWR00001	142	144		LPR	0	DIOR	MF					M		E		IG			
DWR00001	142	144																	
DWR00001	144	148		LPR	0	DIOR	MF		GRAN	FR		M	M	E		IG	GR		
DWR00001	144	148																	
DWR00001	148	150		LPR	0	DIOR	MF					M		E		IG			
DWR00001	148	150																	
DWR00001	150	154		LPR	0	GRDR	MF		DIOR	MF		M	M	E		GR	IG		
DWR00001	150	154																	
DWR00001	154	158		LPR	0	GRDR	MF					M		E		GR			
DWR00001	154	158																	
DWR00001	158	160		LPR	0	DIOR	MF		GRDR			M	M	E		IG	GR		
DWR00001	158	160																	
DWR00001	160	166		LPR	0	DIOR						M		E		IG			
DWR00001	160	166																	
DWR00001	166	168		LPR	0	GRDR						M		E		GR			
DWR00001	166	168																	
DWR00001	168	170		LPR	0	GRDR			DIOR	MF		M	M	E		GR	IG		
DWR00001	168	170																	
DWR00001	170	180		LPR	0	GRDR						M		E		GR			
DWR00001	170	180																	
DWR00001	180	190		LPR	0	DIOR			QZDR	??		M	M	E		IG	IG		
DWR00001	180	190																	
DWR00001	190	195		LPR	0	GRDR						M		E		GR			
DWR00001	190	195																	
DWR00002	0	2		QUA		CLAY			CLAY	CA		0	0	U					
DWR00002	2	4		QUA		CLAY	CA					0		U					
DWR00002	4	6		QUA		CLAY			CLAY	CA		0	0	R	U				
DWR00002	6	8		QUA		CLAY						0		R	U				
DWR00002	8	10		TER		CLAY			SAND			0	F	U					
DWR00002	10	12		TER		CLAY	CA	SA				0		U					
DWR00002	12	18	BS	UPR	9	CLAY						0		R	U				
DWR00002	18	28		UPR	9	CLAY						0		U					
DWR00002	28	32		UPR	9	CLAY						0		Y	U				
DWR00002	32	34		UPR	9	CLAY						0		O	U				
DWR00002	34	36		UPR	9	CLAY						0		Y	U				

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00002	36	38		UPR	7	CLAY			SNST	GE	SI	0	F	Y	U		MS		
DWR00002	38	40		UPR	7	CLAY			SNST	FE	SI	0	F	R	U		MS		
DWR00002	40	48		UPR	5	CLAY			SNST	SI	FE	0	F	Y	U		MS		
DWR00002	48	50		UPR	5	CLAY			SISN	FE		0	F	R	U		MS		
DWR00002	50	52		UPR	5	CLAY			SISN	FE		0	F	Y	U		MS		
DWR00002	52	56		LPR	3	CLAY			SEDM	??	FE	0	F	Y	U		MS		
DWR00002	56	66		LPR	3	MTSD	FE					F		U					
DWR00002	66	70		LPR	3	MTSD	AA	K+	MTSD	PE		F	F	R	U	MS			
DWR00002	70	74		LPR	3	MTSD	AA	K+	MTSD	FE	PE	F	F	R	U	MS	LM		
DWR00002	74	94		LPR	3	MTSD	AA	K+	MTSD	FE	PE	F	F	U		MS	MS		
DWR00002	94	96		LPR	3	MTSD	AA	K+	MTSD	FE	PE	F	F	U		LM	MS		
DWR00002	96	98	DW	LPR	0	MTSD	AA	K+	MTSD	PE		F	F	U		MS	MS		
DWR00002	96	98																	
DWR00002	98	100		LPR	0	MTSD	PE		MTSD	FR	AA	F	F	U		MS	MS		
DWR00002	98	100																	
DWR00002	100	110		LPR	0	PELT			MTSD	AA	K+	F	F	U		MS	MS		
DWR00002	100	110																	
DWR00002	110	116		LPR	0	MTSD	PE	K+	ABMA			F	1	E	U	MS	MS		
DWR00002	110	116																	
DWR00002	116	118		LPR	0	MTSD	PS		MTSD	RR	K+	M	F	E	U	MS	MS		
DWR00002	116	118																	
DWR00002	118	120		LPR	0	MTSD	K+	RR	FAZN			1		U		MS	FR		
DWR00002	118	120																	
DWR00002	120	124		LPR	0	MTSD	K+	RR	PSPE	AA	??	1	F	U		MS	MS		
DWR00002	120	124																	
DWR00002	124	144		LPR	0	MTSD	K+	RR	PSPE	AA	FR	1	F	E	U	MS	MS		
DWR00002	124	144																	
DWR00002	144	146		LPR	0	ABMA			IRON			1	C	R	U	MS	MS		
DWR00002	144	146																	
DWR00002	146	150		LPR	0	ABMA			MTSD	RR	K+	1	F	E	U	MS	MS		
DWR00002	146	150																	
DWR00002	150	152		LPR	0	ABMA			MTSD	PS	RR	1	F	E	U	MS	MS		
DWR00002	150	152																	
DWR00002	152	154		LPR	0	ABMA			MTSD	PS	RR	1	F	U	N	MS	MS		

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00002	152	154																	
DWR00002	154	158		LPR	0	ABMA			GRAN	FD		1	C	U	N	MS	GR		
DWR00002	154	158																	
DWR00002	158	160		LPR	0	ABMA			MTSD	PE	RR	1	F	N	U	MS	MS		
DWR00002	158	160																	
DWR00002	160	164		LPR	0	QMBF						M		N	U	GL			
DWR00002	164	168		LPR	0	QMBF			PELT	S-	SR	M	2	N	U	GL	SC		
DWR00002	168	170		LPR	0	QMBF						F		N	U	MS			
DWR00002	170	174		LPR	0	QMBF			MTSD	CA		F	M	N	U	MS	MS		
DWR00002	170	174																	
DWR00002	174	176		LPR	0	PSAM	MA	AB	QMBF			F	M	U	N	MS	MS		
DWR00002	174	176																	
DWR00002	176	178		LPR	0	QMBF			MTSD	CA		M	M	N	U	MS	MS		
DWR00002	176	178																	
DWR00002	178	180		LPR	0	QMBF						M		N	U	MS			
DWR00002	180	182		LPR	0	MTSD	FE		FAZN	CV		F		U	N	MS	BX		
DWR00002	180	182																	
DWR00002	182	184		LPR	0	PSPE						F		E		MS		F	2
DWR00002	182	184																	
DWR00002	184	186		LPR	0	PSPE	SP		AMFB	??	SP	F	F	E		MS	MS	F	3
DWR00002	184	186																	
DWR00002	186	188		LPR	0	PSPE						F		E		MS			
DWR00002	186	188																	
DWR00002	188	190		LPR	0	PSPE						F		E		MS		F	3
DWR00002	188	190																	
DWR00002	190	194		LPR	0	PSPE	SP					F		E	G	MS		F	3
DWR00002	190	194																	
DWR00002	194	198		LPR	0	PSPE	SR					F		E	G	MS			
DWR00002	198	202		LPR	0	PSAM	CH	FE				3		E	U	MS			

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00002	202	204		LPR	0	PSAM	CH	FE				3		E	U	LM			
DWR00002	204	208		LPR	0	PSAM	CH	AA				3		E	G	LM			
DWR00002	208	210		LPR	0	QZIT	FE	AA				3		E	U	LM			
DWR00002	208	210																	
DWR00002	210	214		LPR	0	QZIT	FE	AA				3		E	U	BN			
DWR00002	210	214																	
DWR00002	214	216		LPR	0	QZIT	AA					3		E	U	MS			
DWR00002	214	216																	
DWR00002	216	222		LPR	0	QZIT	AA					3		E	U	MS			
DWR00002	216	222																	
DWR00002	222	223		LPR	0	QZIT	AA					3		O	U	MS			
DWR00003	0	2		QUA		CLAY	SA		CLAY	CA		0	0	R	U				
DWR00003	2	4		QUA		CLAY	CA					0		O	U				
DWR00003	4	10		QUA		CLAY	CA					0		O	U				
DWR00003	10	12		TER		CLAY						0		G	U				
DWR00003	12	14		TER		CLAY	SA					0		R	U				
DWR00003	14	18		TER		CLAY	CA					0		U					
DWR00003	18	20	BS	PRO	9	CLAY	KA					0		W					
DWR00003	20	24		PRO	9	CLAY	KA	SF	FEZN			0	F	W	C		MS		
DWR00003	24	26		PRO	9	CLAY	KA		LRPL			0	0	W					
DWR00003	26	28		PRO	9	CLAY	KA	GE				0		O	W				
DWR00003	28	30		PRO	9	CLAY	KA					0		G	W				
DWR00003	30	36		PRO	9	CLAY						0		E	G				
DWR00003	36	40		PRO	7	CLAY			UNRK			0	1	E	G		MS		
DWR00003	40	42	C-	PRO	7	UNRK			CLAY			1	0	E		MS			
DWR00003	42	58		PRO	5	PSPE	??					F		E		MS			
DWR00003	58	66		PRO	3	PSAM	??					F		E		MS			
DWR00003	66	70		LPR	0	PSAM			QZIT			F	F	E	G	MS	MS		
DWR00003	66	70																	
DWR00003	70	74		LPR	0	PSPE						F		E	G	MS			
DWR00003	70	74																	
DWR00003	74	76		LPR	0	PSPE						F		E	G	MS			
DWR00003	74	76																	
DWR00003	76	80		LPR	0	PSPE						M		E	G	MS			
DWR00003	76	80																	
DWR00003	80	90		LPR	0	PSPE	AB	PS				M		E	G	MS			
DWR00003	80	90																	

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00003	90	104		LPR	0	PSPE	AB	IG				M		E		MS			
DWR00003	90	104																	
DWR00003	104	106	DW	LPR	0	PSPE	AB					M		E		MS			
DWR00003	104	106																	
DWR00003	106	120		LPR	0	PSPE	AB					M		E		MS			
DWR00003	106	120																	
DWR00003	120	122		LPR	0	PSPE	AB					F		E		MS			
DWR00003	120	122																	
DWR00003	122	140		LPR	0	PSPE	AB					F		E		MS			
DWR00003	122	140																	
DWR00004	0	2		QUA		CLAY	CA					0		U					
DWR00004	2	6		QUA		CLAY	CA		CLAY	SA		0	0	U					
DWR00004	6	8		TER		CLAY						0		U	R				
DWR00004	8	20		TER		CLAY						0		U					
DWR00004	20	22		TER		CLAY			SAND	GV		0	5	U					
DWR00004	22	28	BS	PRO	9	CLAY						0		O	U				
DWR00004	28	32		PRO	9	CLAY						0		U					
DWR00004	32	38		PRO	9	CLAY						0		Y	O				
DWR00004	38	40		PRO	9	CLAY			IRON			0	F	E	G		MS		
DWR00004	40	44		PRO	7	CLAY			MTSD	??		0	M	E	G		MS		
DWR00004	44	50		PRO	5	GRAN	??					M		O	G	GR			
DWR00004	44	50																	
DWR00004	50	60		PRO	3	MTSD						M		O	G	GR			
DWR00004	50	60																	
DWR00004	60	76		PRO	3	MTSD	FR					M		O	G	GR			
DWR00004	60	76																	
DWR00004	76	78	DW	PRO	3	MTSD	MF					M		O	G	GR			
DWR00004	76	78																	
DWR00004	78	80		PRO	3	MTSD	MF					M		O	G	GR			
DWR00004	78	80																	
DWR00004	80	82		PRO	3	MTSD	MF					M		E	O	GR			
DWR00004	80	82																	
DWR00004	82	84		PRO	0	MTSD	MF					M		E	O	GR			
DWR00004	82	84																	
DWR00004	84	92		PRO	0	MTSD	MF		DIOR	MF		M	F	E		GR	IG		
DWR00004	84	92																	
DWR00004	92	96		PRO	0	DIOR	MF					M		E		IG			
DWR00004	92	96																	
DWR00004	96	98		PRO	0	DIOR	MF					M		E		IG			

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00004	96	98																	
DWR00004	98	100		PRO	0	DIOR	MF		MTSD	??	MF	M	M	E		IG	MS		
DWR00004	98	100																	
DWR00004	98	100																	
DWR00004	100	108		PRO	0	DIOR	MF					M		E		IG			
DWR00004	100	108																	
DWR00004	108	110		PRO	0	DIOR	MF					M		E		IG			
DWR00004	108	110																	
DWR00004	110	122		PRO	0	DIOR	MF					M		E		IG			
DWR00004	110	122																	
DWR00004	122	124		PRO	0	DIOR	MF					M		E		IG			
DWR00004	122	124																	
DWR00004	124	126	DW	PRO	0	DIOR	MF					M		E		IG			
DWR00004	124	126																	
DWR00004	126	128		PRO	0	DIOR	MF					M		E		IG			
DWR00004	126	128																	
DWR00004	128	130		PRO	0	DIOR	MF					M		E		IG			
DWR00004	128	130																	
DWR00004	130	134		PRO	0	DIOR	MF					M		E		IG			
DWR00004	130	134																	
DWR00004	134	138		PRO	0	DIOR	MF					M		E		IG			
DWR00004	134	138																	
DWR00004	138	140		PRO	0	DIOR	MF					M		E		IG			
DWR00004	138	140																	
DWR00004	140	142		PRO	0	DIOR	MF					M		E		IG			
DWR00004	140	142																	
DWR00004	142	150		PRO	0	DIOR	MF					M		E		IG			
DWR00004	142	150																	
DWR00004	150	158		PRO	0	DIOR	MF					M		E		IG			
DWR00004	150	158																	
DWR00004	158	164		PRO	0	DIOR	MF					M		E		IG			
DWR00004	158	164																	
DWR00004	164	174		PRO	0	DIOR	MF					M		E		IG			
DWR00004	164	174																	
DWR00005	0	2		QUA		CLAY	CA					0		U					
DWR00005	2	4		QUA		CLAY						0		O	U				
DWR00005	4	8		QUA		CLAY						0		U					
DWR00005	8	12		TER		CLAY						0		U					
DWR00005	12	14		TER		CLAY	SA					0		U					

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00005	14	16	BS	LPR	9	CLAY	KA	FE				0		U	W				
DWR00005	16	18		LPR	9	CLAY	KA					0		U	W				
DWR00005	18	20		LPR	9	LRPL	KA					0		W					
DWR00005	20	22		LPR	9	LATR	FE					0		R					
DWR00005	22	28		LPR	9	CLAY	KA					0		W					
DWR00005	28	30		LPR	9	CLAY	KA	FE				0		R	W				
DWR00005	30	32		LPR	9	CLAY			LRMO			0	0	R	W				
DWR00005	32	42		LPR	9	CLAY	MI		SCHS	??		0	1	E			SC		
DWR00005	42	48		LPR	9	CLAY	MI		PELT	GE		0	1	O	U		SC		
DWR00005	48	52		LPR	9	CLAY	MI		SCHS			0	1	U	E		SC		
DWR00005	48	52																	
DWR00005	52	60		LPR	9	CLAY	MI		SCHS			0	1	U	O		SC		
DWR00005	52	60																	
DWR00005	60	64		LPR	9	CLAY	MI		SCHS			0	1	R	U		SC		
DWR00005	60	64																	
DWR00005	64	70		LPR	9	CLAY	MI		SCHS			0	1	K	U		SC		
DWR00005	64	70																	
DWR00005	70	78		LPR	9	CLAY	MI		SCHS			0	1	U			SC		
DWR00005	70	78																	
DWR00005	78	84		LPR	7	CLAY	MI		SCHS			0	1	U			SC		
DWR00005	84	86		LPR	7	CLAY	MI		SCHS			0	1	G	U		SC		
DWR00005	86	88		LPR	7	CLAY	MI		PELT			0	1	G	U		SC		
DWR00005	86	88																	
DWR00005	88	90		LPR	5	CLAY	MI		PELT			0	1	G	U		SC		
DWR00005	88	90																	
DWR00005	90	92		LPR	5	PELT			CLAY	MI		1	0	G	E	SC			
DWR00005	90	92																	
DWR00005	92	94		LPR	3	PSPE						3		G	E	SC			
DWR00005	92	94																	
DWR00005	94	100		LPR	3	PSPE						3		E		SC			
DWR00005	94	100																	
DWR00005	100	126		LPR	0	PSPE						3		E		SC			
DWR00005	100	126																	
DWR00005	126	128	DW	LPR	0	PSPE						3		E		SC			
DWR00005	126	128																	
DWR00005	128	166		LPR	0	PSPE						3		E		SC			
DWR00005	128	166																	
DWR00005	166	172		LPR	0	PSPE						3		E		SC			
DWR00005	166	172																	

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00005	172	180		LPR	0	PSPE						3		E		SC			
DWR00005	172	180																	
DWR00006	0	2		QUA		CLAY	CA					0		U					
DWR00006	2	4		QUA		CLAY	SA					0		U					
DWR00006	4	6		QUA		CLAY						0		U					
DWR00006	6	10		TER		CLAY						0		O	U				
DWR00006	10	14		TER		CLAY						0		Y	U				
DWR00006	14	16		TER		CLAY			SAND			0	4	O	U				
DWR00006	16	18	BS	LPR	9	CLAY						0		R	U				
DWR00006	18	30		LPR	9	CLAY						0		U					
DWR00006	30	34		LPR	9	CLAY			SCHS			0	3	U			SC		
DWR00006	34	40		LPR	7	CLAY			SCHS	PE		0	3	U			SC		
DWR00006	40	44		LPR	5	CLAY			PSPE			0	3	U			SC		
DWR00006	44	60		LPR	5	PSPE			CLAY	MI		3	0	U		SC			
DWR00006	44	60																	
DWR00006	60	62		LPR	5	PSPE						3		U		SC			
DWR00006	60	62																	
DWR00006	62	66		LPR	5	PSPE						3		O	U	SC			
DWR00006	62	66																	
DWR00006	66	70		LPR	3	PSPE						3		G	U	SC			
DWR00006	66	70																	
DWR00006	70	74		LPR	3	PSPE						3		G	E	SC			
DWR00006	70	74																	
DWR00006	74	98		LPR	3	PSPE						3		G	E	SC			
DWR00006	74	98																	
DWR00006	98	100		LPR	3	PSPE						3		G	E	SC			
DWR00006	98	100																	
DWR00006	100	104		LPR	3	PSPE						3		G	E	SC			
DWR00006	100	104																	
DWR00006	104	112		LPR	0	PSPE						3		E		SC			
DWR00006	104	112																	
DWR00006	112	114	DW	LPR	0	PSPE						3		E		SC			
DWR00006	112	114																	
DWR00006	114	118		LPR	0	PSPE						3		E		SC			
DWR00006	114	118																	
DWR00006	118	128		LPR	0	PSPE						3		E		SC			
DWR00006	118	128																	
DWR00006	128	138		LPR	0	PSPE						3		E		SC			

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00006	128	138																	
DWR00006	138	140		LPR	0	PSPE						3		E		SC			
DWR00006	138	140																	
DWR00006	140	180		LPR	0	PSPE						3		E		SC			
DWR00006	140	180																	
DWR00007	0	2		QUA		CLAY	CA					0		U					
DWR00007	2	6		TER		CLAY						0		U					
DWR00007	6	8		TER		CLAY						0		K	U				
DWR00007	8	12		TER		CLAY						0		U					
DWR00007	12	14	BS	LPR	9	CLAY						0		U	W				
DWR00007	14	16		LPR	9	CLAY						0		W					
DWR00007	16	18		LPR	9	CLAY						0		W	U				
DWR00007	18	20		LPR	9	CLAY						0		O	U				
DWR00007	20	24		LPR	9	CLAY						0		R	U				
DWR00007	24	28		LPR	9	CLAY						0		O	U				
DWR00007	28	30		LPR	9	CLAY						0		Y	U				
DWR00007	30	32		LPR	9	CLAY						0		O	U				
DWR00007	32	36		LPR	9	CLAY			PSAM			0	F	U			SC		
DWR00007	36	40		LPR	9	CLAY						0		O	U				
DWR00007	40	46		LPR	9	CLAY						0		Y	O				
DWR00007	46	58		LPR	9	CLAY						0		O	U				
DWR00007	58	60		LPR	9	CLAY			PSPE			0	3	O	U		SC		
DWR00007	60	62		LPR	7	CLAY			PSPE			0	<	O	U		SC		
DWR00007	62	64		LPR	9	CLAY						0		Y	O				
DWR00007	64	66		LPR	9	CLAY						0		Y	O				
DWR00007	66	68		LPR	7	CLAY			PSAM	??		0	3	G	U		SC		
DWR00007	68	70		LPR	9	QZVN			CLAY			<	0	G	U				
DWR00007	70	72		LPR	7	CLAY			PSPE			0	3	U					
DWR00007	72	76		LPR	7	CLAY			PSPE			0	3	G	U		SC		
DWR00007	76	78		LPR	5	CLAY			PSPE	PS		0	3	G	U		SC		
DWR00007	78	82		LPR	3	INTR	??		PSPE	PS		F	F	G	E	GR	SC		
DWR00007	78	82																	
DWR00007	82	84		LPR	3	PSPE	PS					F		E		SC			
DWR00007	82	84																	
DWR00007	84	88		LPR	3	PSAM						F		E		SC			
DWR00007	84	88																	
DWR00007	88	96		LPR	0	PSAM						F		E		SC			
DWR00007	96	106		LPR	0	PSAM						F		E		SC			

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00007	96	106																	
DWR00007	106	110		LPR	0	PSAM						F		E		SC			
DWR00007	106	110																	
DWR00007	110	152		LPR	0	PSAM						F		E		SC			
DWR00007	110	152																	
DWR00007	152	178		LPR	0	PSAM						F		E		SC			
DWR00007	152	178																	
DWR00007	178	180	DW	LPR	0	PSAM	FR		FAZN			F	F	E		SC	FR		
DWR00007	178	180																	
DWR00007	180	196		LPR	0	PSAM						F		E		SC			
DWR00007	180	196																	
DWR00008	0	2		QUA		CLAY	CA					0		U					
DWR00008	2	4	BS	LPR	5	CLAY	CA		INTR	??		0	F	E			GR		
DWR00008	4	6		LPR	5	CLAY			INTR	??		0	F	E			GR		
DWR00008	6	8		LPR	3	PSAM						F		E		SC			
DWR00008	8	20		LPR	0	PSAM						F		E		SC			
DWR00008	8	20																	
DWR00008	20	26		LPR	0	PSAM	FR					F		E		SC			
DWR00008	20	26																	
DWR00008	26	28		LPR	0	PSAM	FR		FAZN	CY		F	F	E		SC	SC		
DWR00008	26	28																	
DWR00008	28	32		LPR	0	PSAM	FR					F		E		SC			
DWR00008	28	32																	
DWR00008	32	40		LPR	0	PSAM						F		E		SC			
DWR00008	32	40																	
DWR00008	40	44		LPR	0	PSAM	FR					F		E		SC			
DWR00008	40	44																	
DWR00008	44	50		LPR	0	PSAM						F		E		SC			
DWR00008	44	50																	
DWR00008	50	54		LPR	0	PSAM	FR					F		E		SC			
DWR00008	50	54																	
DWR00008	54	64		LPR	0	PSAM						F		E		SC			
DWR00008	54	64																	
DWR00008	64	66		LPR	0	PSAM						F		E		SC			
DWR00008	64	66																	
DWR00008	66	96		LPR	0	PSAM						F		E		SC			
DWR00008	66	96																	

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00008	96	102		LPR	0	PSAM						F		E		SC		C	1
DWR00008	96	102																	
DWR00008	102	104		LPR	0	PSAM						F		E		SC			
DWR00008	102	104																	
DWR00008	104	110		LPR	0	PSAM						F		E		SC			
DWR00008	104	110																	
DWR00008	110	112		LPR	0	PSAM						F		E		SC			
DWR00008	110	112																	
DWR00008	112	116		LPR	0	PSAM						F		E		SC			
DWR00008	112	116																	
DWR00008	116	118		LPR	0	PSAM						F		E		SC			
DWR00008	116	118																	
DWR00008	118	124		LPR	0	PSAM						F		E		SC		M	<
DWR00008	118	124																	
DWR00008	124	126		LPR	0	PSAM						F		E		SC		M	<
DWR00008	124	126																	
DWR00008	126	130		LPR	0	PSAM						F		E		SC			
DWR00008	126	130																	
DWR00008	130	146		LPR	0	PSAM						F		E		SC		C	T
DWR00008	130	146																	
DWR00008	146	150		LPR	0	PSAM						F		E		SC		C	T
DWR00008	146	150																	
DWR00009	0	2		QUA		CLAY	GV	CA				0		U					
DWR00009	2	4		QUA		CLAY						0		U					
DWR00009	4	6		QUA		CLAY	CA					0		U					
DWR00009	6	10		TER		CLAY			SAND			0	4	U					
DWR00009	10	12	BS	PRO	9	SAND			CLAY			4	0	K	E				
DWR00009	12	20		LPR	9	CLAY						0		K	E				
DWR00009	20	24		LPR	7	CLAY			PSAM			0	F	K	E				
DWR00009	24	26		LPR	5	PSAM			CLAY			F	0	E		SC			
DWR00009	26	58		LPR	3	PSAM						F		E	U	SC			
DWR00009	58	60		LPR	0	PSAM						F		E		SC			
DWR00009	58	60																	
DWR00009	60	76		LPR	0	PSAM	FR					F		E	U	SC			
DWR00009	60	76																	
DWR00009	76	82		LPR	0	PSAM						F		E		SC			
DWR00009	76	82																	
DWR00009	82	84		LPR	0	PSAM			FAZN	BX		F	F	E		SC	BX	C	T

Hole	From	To	FLAG	AGE	WTH	RT1	RTQ1	RTQ2	RT2	RT2Q1	RT2Q2	GSIZE	GSIZE2	RH1	RH2	RTT1	RTT2	GA_GSIZE	GA_PERC
DWR00009	82	84																	
DWR00009	84	86		LPR	0	PSAM						F		E		SC		C	T
DWR00009	84	86																	
DWR00009	86	90		LPR	0	PSAM						F		E		SC		C	T
DWR00009	86	90																	
DWR00009	90	102		LPR	0	PSAM						F		E		SC		M	T
DWR00009	90	102																	
DWR00009	102	104		LPR	0	PSAM						F		E		SC		M	T
DWR00009	102	104																	
DWR00009	104	106	DW	LPR	0	PSAM						F		E		SC		M	<
DWR00009	104	106																	
DWR00009	106	114		LPR	0	PSAM						F		E		SC		M	T
DWR00009	106	114																	
DWR00009	114	118		LPR	0	PSAM						F		E		SC		M	T
DWR00009	114	118																	
DWR00009	118	126		LPR	0	PSAM						F		E		SC		M	1
DWR00009	118	126																	
DWR00009	126	128		LPR	0	PSAM						F		E		SC		M	T
DWR00009	126	128																	
DWR00009	128	132		LPR	0	PSAM						F		E		SC		M	T
DWR00009	128	132																	
DWR00009	132	136		LPR	0	PSAM						F		E		SC		M	T
DWR00009	132	136																	
DWR00009	136	140		LPR	0	PSAM						F		E		SC		M	T
DWR00009	136	140																	
DWR00009	140	146		LPR	0	PSAM						F		E		SC		M	<
DWR00009	140	146																	
DWR00009	146	148		LPR	0	PSAM						F		E		SC		M	<
DWR00009	146	148																	
DWR00009	148	150		LPR	0	PSAM						F		E		SC		M	T
DWR00009	148	150																	

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00001	0	4	CY	CB	MI	QZ															
DWR00001	4	6	CY	QZ	CB	MI															
DWR00001	6	8	CY	QZ	FE																
DWR00001	8	10	CY	QZ																	
DWR00001	10	12	CY	MI	QZ																
DWR00001	12	14	CY	QZ	MI																
DWR00001	14	18	CY	MI	QZ																
DWR00001	18	20	CY	MI																	
DWR00001	20	22	CY	MI																	
DWR00001	22	24	CY	MI																	
DWR00001	24	26	CY	MI																	
DWR00001	26	28	CY																		
DWR00001	28	34	CY	QZ	MI																
DWR00001	34	36	CY	QZ																	
DWR00001	36	38	CY	QZ																	
DWR00001	38	42	CY	QZ																	
DWR00001	42	46	CY																		
DWR00001	46	48	CY	KA	FE	QZ															
DWR00001	48	50	CY	KA	FE	QZ															
DWR00001	50	52	CY	FE	KA																
DWR00001	52	54	KA	CY																	
DWR00001	54	58	CY																		
DWR00001	58	66	CY																		
DWR00001	66	70	CY	QZ	MI	FE															
DWR00001	70	78	QZ	CL	FD	HE	HB														
DWR00001	70	78	MA	AB	SR																
DWR00001	78	80	QZ	HE	MA	CL	C-														
DWR00001	80	82	HE	QZ	CL	FD	MA														
DWR00001	80	82	MU	C-																	
DWR00001	82	84	QZ	FD	HE	MA	CL														
DWR00001	82	84	BI	C-																	
DWR00001	84	86	QZ	CL	FD	KF	AB														
DWR00001	84	86	HE	BI	MU	MA															
DWR00001	86	88	QZ	FD	KF	HE	MU														
DWR00001	86	88	CL	SR	MA																
DWR00001	88	90	QZ	AB	HE	KF	CL														

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00001	88	90	MA	SR	C-	MU	FD														
DWR00001	90	92	AB	HE	QZ	CL	KF														
DWR00001	90	92	MA																		
DWR00001	92	94	QZ	FD	AX	HE	CL														
DWR00001	94	96	FE	QZ	FD	AB	CL														
DWR00001	94	96	MA	KF																	
DWR00001	96	98	QZ	AB	FD	HE	KF														
DWR00001	96	98	MA	CL	HB																
DWR00001	98	100	QZ	MA	AB	HE	KF														
DWR00001	98	100	FD	SR																	
DWR00001	100	102	QZ	FD	CL	HE	SR														
DWR00001	100	102	MU	MA																	
DWR00001	102	104	QZ	CL	AB	HE	FD														
DWR00001	102	104	MA	SR																	
DWR00001	104	110	QZ	CL	FD	HE	SR														
DWR00001	104	110	EP																		
DWR00001	110	112	QZ	FD	MU	CL	SR														
DWR00001	110	112	HE																		
DWR00001	112	114	QZ	FD	BI	CL	HE														
DWR00001	112	114	SR	MU	AX																
DWR00001	114	116	QZ	FD	BI	CL	MU														
DWR00001	114	116	HE	MA																	
DWR00001	116	118	QZ	BI	FD	MU	HE														
DWR00001	116	118	CL	MA																	
DWR00001	118	120	QZ	FD	MA	BI	CL	DS	EU			T									
DWR00001	118	120	MU	HE	PY																
DWR00001	120	124	FD	BI	MA	EP	CL	DS	EU			1	3		PV	EP	CL				
DWR00001	120	124	HE	SR	PY	QZ															
DWR00001	124	128	FD	BI	MA	EP	CL	DS				<	3		PV	EP	CL	SR			
DWR00001	124	128	SR	HE	KF	CB	PY														
DWR00001	128	132	FD	BI	MA	EP	CL	DS				1	3	1	PV	EP	CL	SR	PD	KF	
DWR00001	128	132	SR	KF	PY																
DWR00001	132	134	FD	BI	MA	EP	CL	DS				T	3	1	PV	EP	CL	SR	PD	KF	
DWR00001	132	134	KF	QZ	PY																
DWR00001	134	136	FD	KF	BI	CL	MA	DS				T	2	T	PV	EP	CL	SR	PD	HE	
DWR00001	134	136	QZ	EP	PY	SR	CB														
DWR00001	134	136	HE																		
DWR00001	136	138	FD	BI	MA	CL	EP	DS				<	3	T	PV	EP	CL	SR	PD	HE	
DWR00001	136	138	PY	HE	QZ																

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00001	138	140	FD	BI	MA	CL	QZ	VN	DS			<	4	T	PV	EP	CL		PD	HE	
DWR00001	138	140	EP	PY	HE	CB	KF														
DWR00001	140	142	FD	BI	MA	CL	EP	DS				1	4		PV	EP	CL				
DWR00001	140	142	PY	HE	QZ																
DWR00001	142	144	FD	BI	MA	CL	EP	DS				T	2	T	PV	EP	CL		PD	HE	
DWR00001	142	144	PY	HE	KF	QZ															
DWR00001	144	148	FD	BI	QZ	MA	CL	DS				T	1	T	PV	EP	CL		PD	HE	
DWR00001	144	148	EP	KF	HE																
DWR00001	148	150	FD	BI	MA	EP	CL	DS				1			PV	EP	CL	SR			
DWR00001	148	150	PY	KF	SR	QZ															
DWR00001	150	154	FD	BI	MA	KF	CL	DS				T	1		PV	EP	CL	SR			
DWR00001	150	154	QZ	EP	SR																
DWR00001	154	158	FD	BI	KF	MA	QZ	PD				T	1	2	PD	EP			PV	CL	
DWR00001	154	158	CL	EP	SR	PY															
DWR00001	158	160	FD	KF	MA	CL	QZ	PD				T	3	1	PV	CL			PD	SR	
DWR00001	158	160	SR																		
DWR00001	160	166	FD	MA	BI	CL	PY	PD				1	3	1	PV	CL			PD	SR	
DWR00001	160	166	KF	SR	QZ																
DWR00001	166	168	FD	KF	CL	MA	BI	PD				1	3	2	PV	CL			PD	SR	
DWR00001	166	168	QZ	SR	PY																
DWR00001	168	170	FD	KF	CL	MA	BI	PD				T	2	1	PV	CL			PD	SR	
DWR00001	168	170	QZ	SR	PY																
DWR00001	170	180	FD	KF	CL	MA	BI	PD				2	2	1	PV	CL			PD	SR	
DWR00001	170	180	QZ	SR	PY																
DWR00001	180	190	FD	KF	CL	MA	SR	PD				1	3		PV	CL	SR				
DWR00001	180	190	BI	PY	QZ																
DWR00001	190	195	FD	KF	MA	QZ	CL	PD				T	2		PV	CL	SR				
DWR00001	190	195	SR	PY																	
DWR00002	0	2	CY	CB	QZ																
DWR00002	2	4	CY	CB	QZ																
DWR00002	4	6	CY	CB																	
DWR00002	6	8	CY	QZ																	
DWR00002	8	10	CY	QZ	MI																
DWR00002	10	12	CY	CB	QZ																
DWR00002	12	18	CY																		
DWR00002	18	28	CY																		
DWR00002	28	32	CY																		
DWR00002	32	34	CY																		
DWR00002	34	36	CY																		

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00002	36	38	CY	QZ	FE																
DWR00002	38	40	CY	QZ	FE																
DWR00002	40	48	CY	QZ	FE																
DWR00002	48	50	CY	QZ	FE																
DWR00002	50	52	CY	QZ	FE																
DWR00002	52	56	CY	QZ	FE	CL	HE														
DWR00002	56	66	QZ	FE	CL	HE	AX														
DWR00002	66	70	KF	QZ	CL	HE	SR						D		RT	KF	HE				
DWR00002	70	74	KF	QZ	CL	HE	SR						D		RT	KF	HE				
DWR00002	74	94	KF	QZ	CL	HE	SR						D		RT	KF	HE				
DWR00002	94	96	QZ	KF	HE	CL							D		RT	KF	HE				
DWR00002	96	98	QZ	KF	HE	CL	MA						D		RT	KF	HE	MA			
DWR00002	96	98	SR	BI																	
DWR00002	98	100	QZ	KF	HE	CL	SR	DS				4	M		RT	KF	HE	MA			
DWR00002	98	100	MA	BI																	
DWR00002	100	110	QZ	BI	KF	MA	CL						C		RL	KF	HE	MA			
DWR00002	100	110	HE	AB	SR											AB					
DWR00002	110	116	KF	AB	MA	BI	QZ						C	M	RT	KF	BI	MA	PD	AB	HE
DWR00002	110	116	CL	HE	SR																
DWR00002	116	118	QZ	KF	AB	MA	BI	DS				2	D	S	RT	KF	MA	BI	PD	AB	HE
DWR00002	116	118	HE	CL	SR	PY															
DWR00002	118	120	QZ	KF	MA	AB	BI						D	S	RT	KF	MA	BI	PD	AB	HE
DWR00002	118	120	HE	CL	SR	PY	GO														
DWR00002	120	124	QZ	KF	AB	MA	BI						D	S	RT	KF	MA	BI	PD	AB	HE
DWR00002	120	124	HE	CL	SR																
DWR00002	124	144	QZ	KF	AB	MA	BI	DS	PD			<	S	S	RT	KF	MA	BI	PD	AB	HE
DWR00002	124	144	HE	CL	SR	PY															
DWR00002	144	146	MA	HE	QZ	AB	KF						D	C	RT	AB	HE	MA	PV	KF	BI
DWR00002	144	146	BI	CL																	
DWR00002	146	150	MA	HE	AB	KF	QZ	DS		<		3	D	S	RT	AB	HE	MA	PV	KF	BI
DWR00002	146	150	BI	S=	CL																
DWR00002	150	152	QZ	MA	HE	AB	KF	DS				2	D	S	RT	AB	HE	MA	PV	KF	BI
DWR00002	150	152	BI	CL																	
DWR00002	152	154	MA	HE	QZ	AB	KF	DS		<		T	D	S	RT	HE	AB	MA	PV	KF	BI

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00002	152	154	BI	CL	S=																
DWR00002	154	158	MA	HE	AB	QZ	FD	DS		<		1	D	S	RT	HE	AB	MA	PV	KF	BI
DWR00002	154	158	KF	BI	CL	S=															
DWR00002	158	160	MA	HE	QZ	AB	KF	DS				<	D	S	RT	HE	AB	MA	PV	KF	BI
DWR00002	158	160	BI	CL	SR																
DWR00002	160	164	QZ	MA	HE								D		RT	MA	HE				
DWR00002	164	168	MA	HE	QZ	SR	AB														
DWR00002	168	170	HE	MA	QZ								D		RT	MA	HE				
DWR00002	170	174	HE	MA	QZ	AB	KF	DS				T	D		RT	AB	HE	MA			
DWR00002	170	174	CL	SR	C-	PY															
DWR00002	174	176	HE	MA	QZ	CL	AB	DS				<	D	M	RT	HE	MA	AB	PD	C-	
DWR00002	174	176	KF	SR	PY	C-															
DWR00002	176	178	HE	MA	QZ	AB	KF						D	M	RT	HE	MA	AB	PD	C-	
DWR00002	176	178	CL	C-	SR																
DWR00002	178	180	HE	MA	QZ								D		RT	HE	MA	QZ			
DWR00002	180	182	QZ	HE	MA	CL	SR	DS				1	D		PV	HE	MA				
DWR00002	180	182	BI																		
DWR00002	182	184	QZ	BI	CL	FD	MA	DS				<									
DWR00002	182	184	HE	GA	KF																
DWR00002	184	186	QZ	BI	CL	SR	FD						S		CB	EP	GA				
DWR00002	184	186	MA	GA	EP																
DWR00002	186	188	QZ	SR	KF	CL	BI						D		PV	SR	CL				
DWR00002	186	188	FD																		
DWR00002	188	190	QZ	SR	CL	FD	BI						D		PV	SR	CL				
DWR00002	188	190	GA																		
DWR00002	190	194	QZ	SR	FD	CL	BI	DS				T	S		PV	SR	CL				
DWR00002	190	194	GA	SC	MA																
DWR00002	194	198	QZ	SR	FD	CL	BI						C		PV	SR	CL				
DWR00002	198	202	QZ	CL	KF	FE							D	C	PV	SS			PV	KF	FE

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00002	202	204	QZ	CL	KF	FE	SR						D	C	PV	SS			PV	KF	FE
DWR00002	204	208	QZ	CL	FD	BI							C		SF	QZ	BL				
DWR00002	208	210	QZ	FD	CL	FE	KF						2		PV	CL	SR				
DWR00002	208	210	BI	SR																	
DWR00002	210	214	QZ	FD	CL	KF	BI	DS				T	2		PV	CL	SR				
DWR00002	210	214	HE	PY	SR																
DWR00002	214	216	QZ	HE	KF	CL	BI	DS		<		T	2		PV	CL					
DWR00002	214	216	S=																		
DWR00002	216	222	QZ	CL	FD	SR	BI	DS				1	2		PV	CL	SR				
DWR00002	216	222	KF	FE	PY																
DWR00002	222	223	QZ	HE	CL	KF	PY	DS				<	M		PD	KF	HE				
DWR00003	0	2	CY	QZ	CB																
DWR00003	2	4	CY	CB	QZ																
DWR00003	4	10	CY	CB	QZ	MI															
DWR00003	10	12	CY	MI																	
DWR00003	12	14	CY	QZ	FE																
DWR00003	14	18	CY	QZ	CB																
DWR00003	18	20	KA	QZ																	
DWR00003	20	24	KA	FE																	
DWR00003	24	26	KA																		
DWR00003	26	28	KA	GO																	
DWR00003	28	30	KA	CL	GO																
DWR00003	30	36	CY	FE	KA																
DWR00003	36	40	CY	FE	KA	CL															
DWR00003	40	42	CY	HE	QZ	FD															
DWR00003	42	58	QZ	HE	FD	CY															
DWR00003	58	66	QZ	HE	FD	CL															
DWR00003	66	70	QZ	HE	FD	CL	SR	PD				1	T		PD	EP	CL				
DWR00003	66	70	EP	PY																	
DWR00003	70	74	QZ	CL	FD	HE	C-	PD				T	T		PD	EP	CL				
DWR00003	70	74	EP	PY	SR																
DWR00003	74	76	QZ	CL	FD	HE	SR	PD				2	T		PD	EP	CB				
DWR00003	74	76	EP	CB	C-	PY															
DWR00003	76	80	QZ	CL	FD	HE	SR														
DWR00003	76	80	CB	C-																	
DWR00003	80	90	QZ	AB	CL	HE	BI						2		PV	CL	SR	HE			
DWR00003	80	90	KF	SR	MA																

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00003	90	104	QZ	CL	AB	MA	BI						2		PV	CL	SR	EP			
DWR00003	90	104	KF	SR	HE	EP										HE					
DWR00003	104	106	QZ	AB	HE	CL	KF						2		PV	CL	SR	HE			
DWR00003	104	106	BI	MA	SR																
DWR00003	106	120	QZ	CL	AB	MA	KF						2		PV	CL	SR	HE			
DWR00003	106	120	BI	HE	SR																
DWR00003	120	122	QZ	CL	AB	MA	KF	DB				<	2		PV	CL	SR	HE			
DWR00003	120	122	BI	HE	SR	PY															
DWR00003	122	140	QZ	AB	MA	CL	KF						2		PV	CL	SR	HE			
DWR00003	122	140	BI	HE	SR																
DWR00004	0	2	CY	CB	QZ																
DWR00004	2	6	CY	CB	QZ																
DWR00004	6	8	CY	QZ	MI																
DWR00004	8	20	CY	QZ	MI																
DWR00004	20	22	CY	QZ	MI																
DWR00004	22	28	CY																		
DWR00004	28	32	CY																		
DWR00004	32	38	CY																		
DWR00004	38	40	CY	FE	MN																
DWR00004	40	44	QZ	FD	CL	CY	FE														
DWR00004	44	50	QZ	CL	FD	BI	HE														
DWR00004	44	50	KF	MA	SR	AX															
DWR00004	50	60	QZ	FD	CL	AB	MA						2		PV	EP	CL	SR			
DWR00004	50	60	KF	BI	EP																
DWR00004	60	76	AB	QZ	BI	MA	KF						3		PV	EP	CL	SR			
DWR00004	60	76	CL	SR	EP	HE	FD														
DWR00004	76	78	AB	QZ	MA	CL	BI						2		PV	CL	SR	EP			
DWR00004	76	78	KF	SR	EP																
DWR00004	78	80	AB	QZ	MA	CL	BI						2		PV	CL	SR				
DWR00004	78	80	KF	SR																	
DWR00004	80	82	AB	QZ	MA	CL	BI	DS				1	2		PV	CL	SR				
DWR00004	80	82	KF	SR	PY																
DWR00004	82	84	AB	QZ	MA	CL	BI	DS				1	2		PV	CL	SR				
DWR00004	82	84	KF	SR	PY																
DWR00004	84	92	FD	MA	CL	HB	BI	DS				2	2		PV	EP	CL	SR			
DWR00004	84	92	EP	QZ	SR	KF	PY														
DWR00004	92	96	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	92	96	EP	QZ	SR	HE	PY														
DWR00004	96	98	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00004	96	98	EP	QZ	SR	HE	PY														
DWR00004	98	100	FD	MA	CL	HB	BI	DS				1	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	98	100	EP	QZ	SR	HE	KF														
DWR00004	98	100	PY																		
DWR00004	100	108	FD	MA	CL	HB	BI	DS				1	4	1	PV	EP	CL	SR	PD	KF	
DWR00004	100	108	EP	QZ	SR	KF	PY														
DWR00004	108	110	FD	MA	CL	HB	BI	DS		<		1	3	1	PV	EP	CL	SR	PD	KF	
DWR00004	108	110	EP	QZ	SR	KF	PY														
DWR00004	110	122	FD	MA	CL	HB	BI	DS				1	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	110	122	EP	QZ	SR	KF	PY														
DWR00004	122	124	FD	MA	CL	HB	BI	DS				T	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	122	124	EP	QZ	SR	KF	PY														
DWR00004	124	126	FD	MA	CL	HB	BI	DS				T	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	124	126	EP	QZ	SR	KF	PY														
DWR00004	126	128	FD	MA	CL	HB	BI	DS				T	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	126	128	EP	QZ	SR	KF	PY														
DWR00004	128	130	FD	MA	CL	HB	BI	DS				T	2	1	PV	EP	CL	SR	PD	KF	
DWR00004	128	130	EP	QZ	SR	KF	PY														
DWR00004	130	134	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	130	134	EP	QZ	SR	KF	PY														
DWR00004	134	138	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	134	138	EP	QZ	SR	KF	PY														
DWR00004	138	140	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	138	140	EP	QZ	SR	KF	PY														
DWR00004	140	142	FD	MA	CL	HB	BI	DS				<	2		PV	EP	CL	SR			
DWR00004	140	142	EP	QZ	SR	KF	PY														
DWR00004	142	150	FD	MA	CL	HB	BI						2		PV	EP	CL	SR			
DWR00004	142	150	EP	QZ	SR	KF															
DWR00004	150	158	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	150	158	EP	QZ	SR	KF	PY														
DWR00004	158	164	FD	MA	CL	HB	BI						2		PV	EP	CL	SR			
DWR00004	158	164	EP	QZ	SR	KF															
DWR00004	164	174	FD	MA	CL	HB	BI	DS				T	2		PV	EP	CL	SR			
DWR00004	164	174	EP	QZ	SR	KF	PY														
DWR00005	0	2	CY	CB	QZ																
DWR00005	2	4	CY	CB	QZ																
DWR00005	4	8	CY	CB	QZ	MI															
DWR00005	8	12	CY	QZ	MI																
DWR00005	12	14	CY	QZ																	

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00005	14	16	CY	KA	FE																
DWR00005	16	18	CY	KA	FE																
DWR00005	18	20	KA	CY																	
DWR00005	20	22	FE	KA																	
DWR00005	22	28	KA																		
DWR00005	28	30	KA	FE																	
DWR00005	30	32	KA	FE	QZ																
DWR00005	32	42	CY	CL	QZ	SR	GR														
DWR00005	42	48	CY	QZ	CL	GO	SR														
DWR00005	48	52	CY	CL	GO	QZ	GR														
DWR00005	48	52	SR																		
DWR00005	52	60	CY	CL	GO	QZ	GR														
DWR00005	52	60	SR																		
DWR00005	60	64	CY	CL	FE	QZ	GR														
DWR00005	60	64	SR																		
DWR00005	64	70	CY	CL	FE	QZ	GR														
DWR00005	64	70	SR																		
DWR00005	70	78	CY	CL	GO	QZ	GR														
DWR00005	70	78	SR																		
DWR00005	78	84	CY	CL	QZ	GR	SR														
DWR00005	84	86	CY	CL	QZ	GR	SR														
DWR00005	86	88	CY	CL	QZ	MU	SR														
DWR00005	86	88	GR																		
DWR00005	88	90	CY	CL	QZ	MU	SR	DB				<									
DWR00005	88	90	GR	PY	BI	FE															
DWR00005	90	92	QZ	CL	CY	BI	SR														
DWR00005	90	92	HE	MU																	
DWR00005	92	94	QZ	CL	BI	SR	HE														
DWR00005	92	94	MU	CY																	
DWR00005	94	100	QZ	BI	FD	CL	HE	DB				1									
DWR00005	94	100	SR	ST	PY	HE															
DWR00005	100	126	QZ	BI	FD	CL	SR	DB				1									
DWR00005	100	126	PY	ST	GR	MU															
DWR00005	126	128	QZ	BI	FD	CL	SR	DB			T	1									
DWR00005	126	128	ST	S=	GR	MU															
DWR00005	128	166	QZ	BI	FD	CL	SR	DB				1									
DWR00005	128	166	ST	PY	GR	MU															
DWR00005	166	172	QZ	BI	FD	CL	SR	DB				1									
DWR00005	166	172	ST	SI	PY	GR	MU														

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00005	172	180	QZ	BI	FD	CL	SR	DB				1									
DWR00005	172	180	ST	PY	GR	MU															
DWR00006	0	2	CY	CB	QZ																
DWR00006	2	4	CY	QZ																	
DWR00006	4	6	CY	QZ																	
DWR00006	6	10	CY	QZ	MI																
DWR00006	10	14	CY	MI																	
DWR00006	14	16	CY	QZ																	
DWR00006	16	18	CY																		
DWR00006	18	30	CY	MI																	
DWR00006	30	34	CY	MI	CL	QZ															
DWR00006	34	40	CY	CL	QZ	MI															
DWR00006	40	44	CY	CL	QZ	BI	MU														
DWR00006	44	60	CL	QZ	CY	BI	MU														
DWR00006	44	60	SR	HE																	
DWR00006	60	62	CL	QZ	CY	BI	MU														
DWR00006	60	62	SR	HE																	
DWR00006	62	66	CL	QZ	CY	BI	MU														
DWR00006	62	66	SR	HE	GR																
DWR00006	66	70	CL	QZ	CY	BI	MU														
DWR00006	66	70	SR	HE	GR																
DWR00006	70	74	QZ	CL	SR	BI	FD														
DWR00006	70	74	MU	HE	GR	CY															
DWR00006	74	98	QZ	CL	SR	FD	BI														
DWR00006	74	98	FE	MU	GR																
DWR00006	98	100	QZ	CL	SR	FD	BI														
DWR00006	98	100	MU	HE	ST	GR															
DWR00006	100	104	QZ	CL	BI	SR	FD	DB				1									
DWR00006	100	104	MU	ST	GR	PY															
DWR00006	104	112	QZ	BI	CL	SR	FD	DB				1									
DWR00006	104	112	MU	ST	GR	PY															
DWR00006	112	114	QZ	BI	CL	SR	FD	DB				2									
DWR00006	112	114	MU	ST	GR	PY	SP														
DWR00006	114	118	QZ	BI	CL	SR	FD	DB				2									
DWR00006	114	118	MU	ST	GR	PY	SP														
DWR00006	118	128	QZ	BI	CL	SR	FD	DB				2									
DWR00006	118	128	ST	MU	GR	PY															
DWR00006	128	138	QZ	BI	CL	SR	FD	DB				1									

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00006	128	138	ST	MU	GR	PY															
DWR00006	138	140	QZ	BI	CL	SR	FD	DB				1									
DWR00006	138	140	ST	MU	GR	PY															
DWR00006	140	180	QZ	BI	CL	SR	FD	DB				1									
DWR00006	140	180	ST	MU	GR	PY															
DWR00007	0	2	CY	QZ	CB																
DWR00007	2	6	CY	QZ																	
DWR00007	6	8	CY	QZ																	
DWR00007	8	12	CY	QZ																	
DWR00007	12	14	CY	KA	QZ																
DWR00007	14	16	KA	MI																	
DWR00007	16	18	CY	KA	MI																
DWR00007	18	20	CY	MI																	
DWR00007	20	24	CY	MI																	
DWR00007	24	28	CY	MI																	
DWR00007	28	30	CY	MI																	
DWR00007	30	32	CY	MI																	
DWR00007	32	36	CY	MI	QZ	SR															
DWR00007	36	40	CY	MI	QZ																
DWR00007	40	46	CY	MI	QZ																
DWR00007	46	58	CY	MI	QZ																
DWR00007	58	60	CY	MI	QZ	CL															
DWR00007	60	62	CY	MI	CL	QZ	SR														
DWR00007	62	64	CY	MI	QZ																
DWR00007	64	66	CY	MI	QZ																
DWR00007	66	68	CY	QZ	CL	SR															
DWR00007	68	70	QZ	CY	CL																
DWR00007	70	72	QZ	CL	SR	CY															
DWR00007	72	76	QZ	CL	SR	CY															
DWR00007	76	78	QZ	CY	CL	SR	BI														
DWR00007	78	82	QZ	FD	CL	EP	SR														
DWR00007	78	82	BI																		
DWR00007	82	84	QZ	FD	CL	SR	BI														
DWR00007	82	84	HE																		
DWR00007	84	88	QZ	FD	CL	SR	HE														
DWR00007	84	88	BI																		
DWR00007	88	96	QZ	FD	CL	SR	BI														
DWR00007	96	106	QZ	FD	CL	SR	BI						1		PV	CL	SR				

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00007	96	106	MA																		
DWR00007	106	110	QZ	FD	CL	SR	BI						1		PV	CL	SR				
DWR00007	106	110	MA	EP																	
DWR00007	110	152	QZ	FD	CL	SR	BI						1		PV	CL	SR				
DWR00007	110	152	MA																		
DWR00007	152	178	QZ	FD	CL	SR	BI						2		PV	CL	SR				
DWR00007	152	178	MA																		
DWR00007	178	180	QZ	FD	CL	SR	BI						2		PV	CL	SR				
DWR00007	178	180	MA																		
DWR00007	180	196	QZ	FD	CL	SR	BI						1		PV	CL	SR				
DWR00007	180	196	MA																		
DWR00008	0	2	CY	CB	QZ																
DWR00008	2	4	CY	CB	QZ	FD	CL														
DWR00008	4	6	CY	QZ	FD	CL															
DWR00008	6	8	QZ	CL	BI	SR	FD														
DWR00008	8	20	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	8	20	FE																		
DWR00008	20	26	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	20	26	FE	LI																	
DWR00008	26	28	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	26	28	FE	EP	LI																
DWR00008	28	32	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	28	32	FE	LI																	
DWR00008	32	40	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	32	40	FE	MA																	
DWR00008	40	44	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	40	44	MA	LI																	
DWR00008	44	50	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	44	50	FE	MA																	
DWR00008	50	54	QZ	CL	FD	BI	SR						2		PV	CL	SR				
DWR00008	50	54	FE	MA																	
DWR00008	54	64	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00008	54	64	MA																		
DWR00008	64	66	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00008	64	66	MA																		
DWR00008	66	96	QZ	FD	CL	SR	BI						2		PV	CL	SR				
DWR00008	66	96	MA																		

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00008	96	102	QZ	FD	CL	SR	BI						2		PV	CL	SR				
DWR00008	96	102	MA	GA																	
DWR00008	102	104	QZ	FD	CL	SR	BI						2		PV	CL	SR				
DWR00008	102	104	MA																		
DWR00008	104	110	QZ	FD	CL	SR	BI	DS		<		<	2		PV	CL	SR				
DWR00008	104	110	MA	S=																	
DWR00008	110	112	QZ	FD	CL	SR	BI	DS				<	2		PV	CL	SR				
DWR00008	110	112	MA	PY																	
DWR00008	112	116	QZ	FD	CL	SR	BI	DS				<	2	2	PV	CL	SR		PD	EP	
DWR00008	112	116	MA	EP	PY																
DWR00008	116	118	QZ	FD	CL	SR	BI	DS		<		<	2	2	PV	CL	SR		PD	EP	
DWR00008	116	118	MA	EP	PY																
DWR00008	118	124	QZ	FD	CL	SR	BI	DS				<	2	2	PV	CL	SR		PD	EP	
DWR00008	118	124	MA	EP	GA	PY															
DWR00008	124	126	QZ	FD	BI	CL	SR	DS				<	2	2	PV	CL	SR		PD	EP	
DWR00008	124	126	MA	EP	GA	PY															
DWR00008	126	130	QZ	FD	BI	CL	SR						2	2	PV	CL	SR		PD	EP	
DWR00008	126	130	MA	EP																	
DWR00008	130	146	QZ	FD	BI	CL	SR						2	1	PV	CL	SR		PD	EP	
DWR00008	130	146	MA	GA	EP																
DWR00008	146	150	QZ	FD	BI	CL	SR						2		PV	CL	SR				
DWR00008	146	150	MA	GA																	
DWR00009	0	2	CY	CB	QZ																
DWR00009	2	4	CY	QZ	MI																
DWR00009	4	6	CY	QZ	CB	MI															
DWR00009	6	10	CY	QZ	MI																
DWR00009	10	12	CY																		
DWR00009	12	20	CY																		
DWR00009	20	24	CY																		
DWR00009	24	26	CY	QZ	FD	CL															
DWR00009	26	58	QZ	FD	CL	FE	SR														
DWR00009	58	60	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	58	60	FE																		
DWR00009	60	76	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	60	76	FE	LI																	
DWR00009	76	82	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	76	82	MA																		
DWR00009	82	84	QZ	FD	CL	BI	SR						2		PV	CL	SR				

Hole	From	To	RTM1	RTM2	RTM3	RTM4	RTM5	SMQ1	SMQ2	CP	PO	PY	AA	AA2	AT1	AT1M1	AT1M2	AT1M3	AT2	AT2M1	AT2M2
DWR00009	82	84	FE	GA																	
DWR00009	84	86	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	84	86	FE	GA																	
DWR00009	86	90	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	86	90	MA	GA																	
DWR00009	90	102	QZ	FD	CL	BI	SR	DS				<	2		PV	CL	SR				
DWR00009	90	102	MA	GA	PY																
DWR00009	102	104	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	102	104	MA	GA																	
DWR00009	104	106	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	104	106	MA	GA																	
DWR00009	106	114	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	106	114	MA	GA																	
DWR00009	114	118	QZ	FD	CL	BI	SR	DS		<		<	2		PV	CL	SR				
DWR00009	114	118	MA	GA	S=																
DWR00009	118	126	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	118	126	MA	GA																	
DWR00009	126	128	QZ	FD	CL	BI	SR	DS		<		<	2		PV	CL	SR				
DWR00009	126	128	MA	GA	S=																
DWR00009	128	132	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	128	132	MA	GA	S=																
DWR00009	132	136	QZ	FD	CL	BI	SR	DS		<		<	2		PV	CL	SR				
DWR00009	132	136	MA	GA	S=																
DWR00009	136	140	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	136	140	MA	GA																	
DWR00009	140	146	QZ	FD	CL	BI	SR	DS		<		<	2		PV	CL	SR				
DWR00009	140	146	MA	GA	S=																
DWR00009	146	148	QZ	FD	CL	BI	SR						2		PV	CL	SR				
DWR00009	146	148	MA	GA																	
DWR00009	148	150	QZ	FD	CL	BI	SR	DS				<	2		PV	CL	SR				
DWR00009	148	150	MA	GA	PY																

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00001	0	4							
DWR00001	4	6							
DWR00001	6	8							MINOR NON-MAGNETIC PISOLITH
DWR00001	8	10							
DWR00001	10	12							
DWR00001	12	14							WEAKLY MICACEOUS
DWR00001	14	18							ALTERNATING BANDS/LAYERS LBR CLAY & ORANGE BROWN SANDS
DWR00001	18	20							
DWR00001	20	22							
DWR00001	22	24							
DWR00001	24	26							
DWR00001	26	28							
DWR00001	28	34							
DWR00001	34	36							
DWR00001	36	38							
DWR00001	38	42							
DWR00001	42	46							
DWR00001	46	48							
DWR00001	48	50							
DWR00001	50	52							PROT BASEMENT 50M. WKLY DEVELOPED LATERITIC LPRFILE
DWR00001	52	54							
DWR00001	54	58							
DWR00001	58	66							
DWR00001	66	70							
DWR00001	70	78							THIS COULD BE AN INTRUSIVE?? IN CONTACT WITH METASEDIMENTS
DWR00001	70	78							
DWR00001	78	80							IS GREENISH MIN A CALC-SILICATE??
DWR00001	80	82	T	>V	QZ				
DWR00001	80	82							
DWR00001	82	84							
DWR00001	82	84							
DWR00001	84	86							WEAKLY ALBITIC OR POTASSIC ALTERED
DWR00001	84	86							
DWR00001	86	88							COMPLETELY REPLACED ORANGEY COLOURED ROCK FRAGS (EX-AMPHIBOLES REPLACED BY MA+CL)
DWR00001	86	88							
DWR00001	88	90							VERY THIN CALC-SILICATE BAND??

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00001	88	90							
DWR00001	90	92							MA+CL AFTER AMPHIBOLE & CHLORITIC CLOTS/SPOTS
DWR00001	90	92							
DWR00001	92	94							
DWR00001	94	96							MINOR REPLACED EUHEDRAL AMPHIBOLES
DWR00001	94	96							
DWR00001	96	98							
DWR00001	96	98							
DWR00001	98	100							
DWR00001	98	100							
DWR00001	100	102							
DWR00001	100	102							
DWR00001	102	104							
DWR00001	102	104							
DWR00001	104	110							ARE THESE FAULTED OR HORNFELSED METASEDS?
DWR00001	104	110							
DWR00001	110	112	T	>V	HE				
DWR00001	110	112							
DWR00001	112	114	T	>V	HE				SPECULAR HEMATITIC VEINS (OR BANDS??)
DWR00001	112	114							
DWR00001	114	116	2	>V	HE				THIN BANDS/LAYERS MASSIVE SPECULAR HEMATITE
DWR00001	114	116							
DWR00001	116	118	2	>V	HE				
DWR00001	116	118							
DWR00001	118	120	T	>V	QZ				
DWR00001	118	120							
DWR00001	120	124	T	<V	QZ				LPRPYLITIC ALTERATION
DWR00001	120	124							
DWR00001	124	128	T	>V	QZ	KF	CB		
DWR00001	124	128							
DWR00001	128	132							
DWR00001	128	132							
DWR00001	132	134	T	>V	QZ	KF			
DWR00001	132	134							
DWR00001	134	136	1	<V	QZ	CB			
DWR00001	134	136							
DWR00001	134	136							
DWR00001	136	138							
DWR00001	136	138							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00001	138	140	1	>V	QZ	KF	PY	CB	
DWR00001	138	140							
DWR00001	140	142	2	>V	HE	PY	CB		MASSIVE HEMATITE VEINS/VEINING
DWR00001	140	142							
DWR00001	142	144	T	>V	QZ	KF	PY		
DWR00001	142	144							
DWR00001	144	148	1	>V	HE				
DWR00001	144	148							
DWR00001	148	150	2	>V	QZ				
DWR00001	148	150							
DWR00001	150	154	T	>V	QZ				ARE FINE OCCASSIONAL SPOTS SCAPOLITE AFTER FELDSPAR
DWR00001	150	154							
DWR00001	154	158							
DWR00001	154	158							
DWR00001	158	160							
DWR00001	158	160							
DWR00001	160	166							
DWR00001	160	166							
DWR00001	166	168							
DWR00001	166	168							
DWR00001	168	170							
DWR00001	168	170							
DWR00001	170	180							
DWR00001	170	180							
DWR00001	180	190							
DWR00001	180	190							
DWR00001	190	195							
DWR00001	190	195							
DWR00002	0	2							
DWR00002	2	4							
DWR00002	4	6							
DWR00002	6	8							
DWR00002	8	10							
DWR00002	10	12							
DWR00002	12	18							WEATHERED ADELAIDEAN BASEMENT??? @APLPRX 13M
DWR00002	18	28							
DWR00002	28	32							
DWR00002	32	34							
DWR00002	34	36							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00002	36	38							
DWR00002	38	40							
DWR00002	40	48							
DWR00002	48	50							
DWR00002	50	52							
DWR00002	52	56	T	>V	QZ				LOWER PROTEROZOIC BASEMENT AT 52M
DWR00002	56	66							CHLORITE+HE CLOTS AFTER APPARENT AMPHIBOLE
DWR00002	66	70							ROCK (EX-PELITE)ALMOST COMPLETELY ALTERED (POTASSIC KF). HE+CL DEFINE LAYERING??
DWR00002	70	74							OCCASSIONAL LAMINATIONS/BANDING + AS ABOVE
DWR00002	74	94							ROCK ALMOST COMPLETELY ALTERED (POTASSIC KF). HE+CL (PORPHROBLAST LIKE) DEFINE LAYERING??
DWR00002	94	96							ROCK ALMOST COMPLETELY ALTERED (POTASSIC KF). HE+CL (PORPHROBLAST LIKE) DEFINE LAYERING??
DWR00002	96	98							WATER TABLE 97-98M
DWR00002	96	98							
DWR00002	98	100							STRONGLY OXIDISED PROBABLY DUE TO FRACTURING
DWR00002	98	100							
DWR00002	100	110							RELICT PATCHES OF UNALTERED PELITIC METASED IN OVERALL POTASSIC ALTERED METASEDS (EX-PELITES)
DWR00002	100	110							
DWR00002	110	116							POSSIBLE TWO PHASE ALTERATION
DWR00002	110	116							
DWR00002	116	118							
DWR00002	116	118							
DWR00002	118	120							
DWR00002	118	120							
DWR00002	120	124							
DWR00002	120	124							
DWR00002	124	144							
DWR00002	124	144							
DWR00002	144	146							MASSIVE IRON RICH (MA+HE+QZ+BI) FRAG INTERP AS BOTH PART OF SEQUENCE & DUE TO FE-METASOMATISM
DWR00002	144	146							
DWR00002	146	150							RED ROCK ALT POSSIBLY OVERPRINTING EARLIER POTASSIC
DWR00002	146	150							
DWR00002	150	152							
DWR00002	150	152							
DWR00002	152	154							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00002	152	154							
DWR00002	154	158							MASSIVE IRON RICH FRAGS (HE+MA+QZ)
DWR00002	154	158							
DWR00002	158	160							
DWR00002	158	160							
DWR00002	160	164							FRAGS BASICALLY NON BANDED GRANULAR HE+MA+QZ (FE-METASOMATISED)
DWR00002	164	168							FE-METASOMATISED . STRONGLY SERICITSED FRAGS WITH EUHEDRAL MA (IS THIS A SHEAR?????)
DWR00002	168	170							FE-METASOMATISED??
DWR00002	170	174							IS LIGHT AQUA TO GREYISH GREEN MINERAL CALC-SILICATE (ACTINOLITE??)
DWR00002	170	174							
DWR00002	174	176							IS LIGHT AQUA TO GREYISH GREEN MINERAL CALC-SILICATE (ACTINOLITE??)
DWR00002	174	176							
DWR00002	176	178							IS LIGHT AQUA TO GREYISH GREEN MINERAL CALC-SILICATE (ACTINOLITE??)
DWR00002	176	178							
DWR00002	178	180							FE-METASOMATISED. RARE BOXWORK TEXTURES. OCCASSIONAL TRANSLUCENT PRISMATIC YELLOWISH MIN (EPIDOTE)
DWR00002	180	182	2	>V	QZ				FAULT
DWR00002	180	182							
DWR00002	182	184							
DWR00002	182	184							
DWR00002	184	186	3	>V	QZ	FD			IS EP+GA ALTERATION OF FELDSPAR/PLAGIOCLASE IN AND INTRUSIVE AMPHIBOLITE OR DOLERITE
DWR00002	184	186							
DWR00002	186	188							
DWR00002	186	188							
DWR00002	188	190							
DWR00002	188	190							
DWR00002	190	194							ARE FINE TRANSLUCENT SILICEOUS SPOTS SCAPOLITE &/OR GARNET??
DWR00002	190	194							
DWR00002	194	198							
DWR00002	198	202							REDDISH BROWN TO REDDISH GREYCHERTY FINE GRAINED QZIT - POTASSIC ALTERED

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00002	202	204							REDDISH BROWN TO REDDISH GREYCHERTY FINE GRAINED QZIT - POTASSIC ALTERED
DWR00002	204	208							
DWR00002	208	210	2	>V	HE	MA	QZ		
DWR00002	208	210							
DWR00002	210	214							
DWR00002	210	214							
DWR00002	214	216							
DWR00002	214	216							
DWR00002	216	222							
DWR00002	216	222							
DWR00002	222	223	3	>V	HE	MA			
DWR00003	0	2							
DWR00003	2	4							
DWR00003	4	10							
DWR00003	10	12							
DWR00003	12	14							
DWR00003	14	18							
DWR00003	18	20							RARE QUARTZ. ADELAIDEAN COVER???
DWR00003	20	24							WEAKLY DEVELOPED LATERITIC CAP??
DWR00003	24	26							
DWR00003	26	28							
DWR00003	28	30							
DWR00003	30	36							HEMATITIC SPECKS??
DWR00003	36	40							IS THE UNKNOWN ROCK A CARBONATE/LIMESTONE
DWR00003	40	42							IS THIS THE CONTACT BETWEEN OVERLYING WEATHERED ADELAIDEAN SEDIMENTS & LOWER PROT BASEMENT
DWR00003	42	58							
DWR00003	58	66							
DWR00003	66	70							RETROGRADE ALTERATION (FD TO EP)
DWR00003	66	70							
DWR00003	70	74							POSSIBLE MINOR CALCSILICATES
DWR00003	70	74							
DWR00003	74	76							
DWR00003	74	76							
DWR00003	76	80							
DWR00003	76	80							
DWR00003	80	90							
DWR00003	80	90							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00003	90	104							
DWR00003	90	104							
DWR00003	104	106							WATER TABLE 105-106M
DWR00003	104	106							
DWR00003	106	120							
DWR00003	106	120							
DWR00003	120	122							
DWR00003	120	122							
DWR00003	122	140							
DWR00003	122	140							
DWR00004	0	2							
DWR00004	2	6							
DWR00004	6	8							
DWR00004	8	20							
DWR00004	20	22							
DWR00004	22	28							BASEMENT @22M
DWR00004	28	32							
DWR00004	32	38							
DWR00004	38	40							MANGANIFEROUS IRON RICH FRAGMENTS?
DWR00004	40	44							IRON RICH FRAGS
DWR00004	44	50							POSSIBLE AMPHIBOLES (HORNBLENDE)
DWR00004	44	50							
DWR00004	50	60							IGNEOUS LIKE TEXTURES
DWR00004	50	60							
DWR00004	60	76							
DWR00004	60	76							
DWR00004	76	78							WATER TABLE @76-77M
DWR00004	76	78							
DWR00004	78	80							
DWR00004	78	80							
DWR00004	80	82							
DWR00004	80	82							
DWR00004	82	84							
DWR00004	82	84							
DWR00004	84	92							
DWR00004	84	92							
DWR00004	92	96							
DWR00004	92	96							
DWR00004	96	98	1	>V	QZ	CA			

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00004	96	98							
DWR00004	98	100	1	>V	EP	QZ			
DWR00004	98	100	T	>V	QZ	CA			
DWR00004	98	100							
DWR00004	100	108							
DWR00004	100	108							
DWR00004	108	110							POSSIBLE RARE CHALCO
DWR00004	108	110							
DWR00004	110	122							
DWR00004	110	122							
DWR00004	122	124	1	>V	QZ				
DWR00004	122	124							
DWR00004	124	126							WATER TABLE @125-126M
DWR00004	124	126							
DWR00004	126	128							
DWR00004	126	128							
DWR00004	128	130	1	>V	QZ				
DWR00004	128	130							
DWR00004	130	134	1	>V	QZ				
DWR00004	130	134							
DWR00004	134	138							
DWR00004	134	138							
DWR00004	138	140	1	>V	QZ	CL	KF		
DWR00004	138	140							
DWR00004	140	142							
DWR00004	140	142							
DWR00004	142	150							
DWR00004	142	150							
DWR00004	150	158							
DWR00004	150	158							
DWR00004	158	164							
DWR00004	158	164							
DWR00004	164	174							
DWR00004	164	174							
DWR00005	0	2							
DWR00005	2	4							
DWR00005	4	8							
DWR00005	8	12							
DWR00005	12	14							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00005	14	16							BASEMENT @14-16M
DWR00005	16	18							
DWR00005	18	20							
DWR00005	20	22							
DWR00005	22	28							
DWR00005	28	30							
DWR00005	30	32							
DWR00005	32	42							
DWR00005	42	48							
DWR00005	48	52							
DWR00005	48	52							
DWR00005	52	60							
DWR00005	52	60							
DWR00005	60	64							
DWR00005	60	64							
DWR00005	64	70							
DWR00005	64	70							
DWR00005	70	78							
DWR00005	70	78							
DWR00005	78	84							
DWR00005	84	86							
DWR00005	86	88							
DWR00005	86	88							
DWR00005	88	90							
DWR00005	88	90							
DWR00005	90	92							
DWR00005	90	92							
DWR00005	92	94							
DWR00005	92	94							
DWR00005	94	100							IS BROWNISH MINERAL STAUROLITE??
DWR00005	94	100							
DWR00005	100	126							
DWR00005	100	126							
DWR00005	126	128							WATER TABLE 126-127M
DWR00005	126	128							
DWR00005	128	166							
DWR00005	128	166							
DWR00005	166	172							POSSIBLE SILLIMANITE??
DWR00005	166	172							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00005	172	180							
DWR00005	172	180							
DWR00006	0	2							
DWR00006	2	4							
DWR00006	4	6							
DWR00006	6	10							
DWR00006	10	14							
DWR00006	14	16							
DWR00006	16	18							BASEMENT @ 16-17M
DWR00006	18	30							
DWR00006	30	34							
DWR00006	34	40							
DWR00006	40	44							
DWR00006	44	60							
DWR00006	44	60							
DWR00006	60	62	3	>V	QZ				
DWR00006	60	62							
DWR00006	62	66							
DWR00006	62	66							
DWR00006	66	70							
DWR00006	66	70							
DWR00006	70	74							
DWR00006	70	74							
DWR00006	74	98							
DWR00006	74	98							
DWR00006	98	100							STAUROLITE??
DWR00006	98	100							
DWR00006	100	104							
DWR00006	100	104							
DWR00006	104	112							
DWR00006	104	112							
DWR00006	112	114							WATER TABLE 112-113M @APPROX 16500PPM TDS & 2500GALLONS/HR. POSSIBLE MINOR TO RARE SPHENE??
DWR00006	112	114							
DWR00006	114	118							
DWR00006	114	118							
DWR00006	118	128							
DWR00006	118	128							
DWR00006	128	138							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00006	128	138							
DWR00006	138	140	1	>V	QZ				
DWR00006	138	140							
DWR00006	140	180							
DWR00006	140	180							
DWR00007	0	2							
DWR00007	2	6							
DWR00007	6	8							
DWR00007	8	12							
DWR00007	12	14							BASEMENT @ 12-13M
DWR00007	14	16							
DWR00007	16	18							
DWR00007	18	20							
DWR00007	20	24							
DWR00007	24	28							
DWR00007	28	30							
DWR00007	30	32							
DWR00007	32	36							
DWR00007	36	40							
DWR00007	40	46							
DWR00007	46	58							
DWR00007	58	60							
DWR00007	60	62							
DWR00007	62	64	3	>V	QZ				
DWR00007	64	66							
DWR00007	66	68							CONCRETIONARY BALLS?? OR A VERY FUNNY WEATHERING EFFECT - ABUNDANT SMALL (3-5MM) WELL ROUNDED BALLS
DWR00007	68	70	D	>V	QZ				
DWR00007	70	72	3	>V	QZ				
DWR00007	72	76							
DWR00007	76	78							
DWR00007	78	82							
DWR00007	78	82							
DWR00007	82	84							RARE TO COMMON HEMATITIC FLECKS
DWR00007	82	84							
DWR00007	84	88							
DWR00007	84	88							
DWR00007	88	96							
DWR00007	96	106							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00007	96	106							
DWR00007	106	110	1	<V	CL	EP	QZ		
DWR00007	106	110							
DWR00007	110	152							
DWR00007	110	152							
DWR00007	152	178							
DWR00007	152	178							
DWR00007	178	180							WATER TABLE 178-179M IN SMALL SHEAR/FAULT ZONE. WATER 15000PPM TDS AT APPROX 1000 GALLONS/HR
DWR00007	178	180							
DWR00007	180	196							
DWR00007	180	196							
DWR00008	0	2							
DWR00008	2	4							BASEMENT @ 2M. UNSURE IF INTRUSIVE OR DUE TO WEATHERING
DWR00008	4	6							
DWR00008	6	8							
DWR00008	8	20							
DWR00008	8	20							
DWR00008	20	26							OXIDATION ALONG FRACTURE PLANES/SURFACES
DWR00008	20	26							
DWR00008	26	28	4	>V	CL	SR	EP	QZ	STRONG FRACTURING / FAULTING , NUMEROUS VEINS
DWR00008	26	28							
DWR00008	28	32							OXIDATION ALONG FRACTURE PLANES/SURFACES
DWR00008	28	32							
DWR00008	32	40							
DWR00008	32	40							
DWR00008	40	44							
DWR00008	40	44							
DWR00008	44	50							
DWR00008	44	50							
DWR00008	50	54							
DWR00008	50	54							
DWR00008	54	64							
DWR00008	54	64							
DWR00008	64	66	1	>V	QZ				
DWR00008	64	66							
DWR00008	66	96							
DWR00008	66	96							

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00008	96	102							ORANGEY BROWN GARNETS
DWR00008	96	102							
DWR00008	102	104							
DWR00008	102	104							
DWR00008	104	110							VERY RARE PYRITE AND RARER CHALCO IN PRESSURE SHADOWS OF MAGNETITE
DWR00008	104	110							
DWR00008	110	112							
DWR00008	110	112							
DWR00008	112	116	T	<V	EP				
DWR00008	112	116							
DWR00008	116	118	T	<V	EP	GA	QZ		
DWR00008	116	118							
DWR00008	118	124							
DWR00008	118	124							
DWR00008	124	126	4	>V	QZ	EP	CL		
DWR00008	124	126							
DWR00008	126	130							
DWR00008	126	130							
DWR00008	130	146	T	<V	EP	QZ			
DWR00008	130	146							
DWR00008	146	150							
DWR00008	146	150							
DWR00009	0	2							
DWR00009	2	4							
DWR00009	4	6							
DWR00009	6	10							
DWR00009	10	12							BASEMENT AT 11M
DWR00009	12	20							
DWR00009	20	24							
DWR00009	24	26							
DWR00009	26	58							
DWR00009	58	60							
DWR00009	58	60							
DWR00009	60	76							OXIDISED AROUND FRACTURES
DWR00009	60	76							
DWR00009	76	82							
DWR00009	76	82							
DWR00009	82	84							REDDISH BROWN TO ORANGEY BROWN GARNETS

Hole	From	To	VEINPC	VEINQUAL	VTM1	VTM2	VTM3	VTM4	COMMENTS
DWR00009	82	84							
DWR00009	84	86							
DWR00009	84	86							
DWR00009	86	90							
DWR00009	86	90							
DWR00009	90	102							
DWR00009	90	102							
DWR00009	102	104							
DWR00009	102	104							
DWR00009	104	106							WATER TABLE AT 105-106M. STUFF ALL WATER FLOW
DWR00009	104	106							
DWR00009	106	114							
DWR00009	106	114							
DWR00009	114	118							RARE PYRITE AND RARER CHALCO IN PRESSURE SHADOWS OF MAGNETITE
DWR00009	114	118							
DWR00009	118	126							
DWR00009	118	126							
DWR00009	126	128							RARE PYRITE AND RARER CHALCO IN PRESSURE SHADOWS OF MAGNETITE
DWR00009	126	128							
DWR00009	128	132							
DWR00009	128	132							
DWR00009	132	136							
DWR00009	132	136							
DWR00009	136	140							
DWR00009	136	140							
DWR00009	140	146							
DWR00009	140	146							
DWR00009	146	148	2	>V	QZ				
DWR00009	146	148							
DWR00009	148	150							
DWR00009	148	150							

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00001	FU9558	44	46	<0.02	35	20	15	<1	6	9.82	74	11	<5	15	<5
DWR00001	FU9559	46	48	<0.02	26	14	14	<1	<5	11.45	67	10	<5	11	<5
DWR00001	FU9560	48	50	<0.02	15	11	13	<1	<5	9.5	40	8	<5	9	<5
DWR00001	FU9561	50	56	<0.02	19	8	13	<1	6	12.56	48	7	<5	16	<5
DWR00001	FU9562	56	62	<0.02	45	9	55	<1	8	12.82	225	10	<5	71	<5
DWR00001	FU9563	62	68	<0.02	25	9	78	<1	<5	10.4	216	6	<5	70	<5
DWR00001	FU9564	68	74	<0.02	33	9	64	<1	<5	8.55	161	6	<5	65	<5
DWR00001	FU9565	74	80	<0.02	15	7	37	<1	<5	8.24	127	6	<5	48	<5
DWR00001	FU9566	80	86	<0.02	20	6	29	<1	<5	8.4	120	7	<5	58	<5
DWR00001	FU9567	86	92	<0.02	19	<5	42	<1	<5	9.22	159	8	<5	63	<5
DWR00001	FU9568	92	98	<0.02	23	8	28	<1	<5	10.39	182	14	<5	56	<5
DWR00001	FU9569	98	104	<0.02	31	7	27	<1	6	7.73	395	19	<5	67	<5
DWR00001	FU9570	104	110	<0.02	59	8	37	<1	<5	9.34	400	6	<5	87	<5
DWR00001	FU9571	110	116	<0.02	25	6	30	<1	7	12.33	386	8	<5	131	<5
DWR00001	FU9572	116	122	<0.02	22	<5	30	<1	<5	12.2	448	7	<5	96	<5
DWR00001	FU9573	122	128	<0.02	63	<5	27	<1	<5	11.88	588	6	5	58	<5
DWR00001	FU9574	128	134	<0.02	47	<5	24	<1	<5	11.9	600	7	5	58	<5
DWR00001	FU9575	134	140	<0.02	64	6	23	<1	5	11.81	664	6	5	65	<5
DWR00001	FU9576	140	146	<0.02	55	5	22	<1	<5	13.18	505	6	<5	108	<5
DWR00001	FU9577	146	152	<0.02	91	<5	28	<1	5	10.69	630	6	<5	48	<5
DWR00001	FU9578	152	158	<0.02	9	8	24	<1	5	9.51	334	5	<5	36	<5
DWR00001	FU9579	158	164	<0.02	11	10	21	<1	<5	9.02	285	7	<5	30	<5
DWR00001	FU9580	164	170	<0.02	20	9	25	<1	7	9.87	302	6	<5	44	<5
DWR00001	FU9581	170	176	<0.02	24	8	25	<1	5	11.47	279	8	<5	64	<5
DWR00001	FU9582	176	182	<0.02	9	9	26	<1	7	10.22	323	6	<5	40	<5
DWR00001	FU9583	182	188	<0.02	11	12	27	<1	6	10.74	275	6	<5	73	<5
DWR00001	FU9585	188	195	<0.02	24	8	41	<1	6	8.84	327	6	<5	31	<5
DWR00002	FU9586	6	8	<0.02	21	22	51	<1	6	3.6	233	6	<5	8	<5
DWR00002	FU9587	8	10	<0.02	12	15	21	<1	<5	6.92	250	12	<5	9	<5
DWR00002	FU9588	10	12	<0.02	17	12	16	<1	7	6.73	881	7	<5	10	<5
DWR00002	FU9589	12	18	<0.02	13	13	11	<1	6	8.85	281	7	5	6	<5
DWR00002	FU9590	18	24	<0.02	16	20	9	<1	8	7.69	157	6	<5	6	<5
DWR00002	FU9591	24	30	<0.02	10	14	15	<1	<5	7.35	124	7	<5	11	<5
DWR00002	FU9592	30	36	<0.02	<5	14	8	<1	<5	6.77	116	6	<5	8	<5
DWR00002	FU9593	36	42	<0.02	<5	8	13	<1	<5	5.28	121	<5	<5	9	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00002	FU9594	42	48	<0.02	6	8	19	<1	5	5.76	141	<5	<5	12	<5
DWR00002	FU9595	48	54	<0.02	6	11	20	<1	<5	5.38	242	5	<5	12	<5
DWR00002	FU9596	54	60	<0.02	14	9	25	<1	<5	5.84	293	5	<5	20	<5
DWR00002	FU9597	60	66	<0.02	23	7	31	<1	<5	6.18	781	8	<5	21	<5
DWR00002	FU9598	66	72	<0.02	9	7	25	<1	5	7.72	1950	10	<5	25	<5
DWR00002	FU9599	72	78	<0.02	<5	<5	26	<1	<5	6.93	859	8	<5	18	<5
DWR00002	FU9600	78	84	<0.02	<5	8	40	<1	<5	6.78	3870	9	<5	39	<5
DWR00002	FU9601	84	90	<0.02	<5	8	42	<1	<5	6.47	4530	11	<5	19	<5
DWR00002	FU9602	90	96	<0.02	11	7	27	<1	<5	8.29	5800	14	<5	29	<5
DWR00002	FU9603	96	102	<0.02	15	7	20	<1	<5	8.01	6070	14	<5	25	<5
DWR00002	FU9604	102	108	<0.02	87	7	20	<1	<5	7.24	4160	22	<5	26	<5
DWR00002	FU9605	108	114	<0.02	7	6	11	<1	<5	11.04	869	11	<5	21	<5
DWR00002	FU9606	114	120	<0.02	67	5	15	<1	<5	8.57	1120	23	<5	25	<5
DWR00002	FU9607	120	126	<0.02	101	7	10	<1	<5	7.61	1210	11	<5	17	<5
DWR00002	FU9608	126	132	0.08	596	<5	13	<1	6	8.28	1870	17	<5	48	<5
DWR00002	FU9611	132	138	0.05	259	<5	21	<1	5	9.6	936	24	<5	36	<5
DWR00002	FU9612	138	144	<0.02	453	6	23	<1	5	12.18	463	28	<5	48	<5
DWR00002	FU9613	144	150	0.22	1470	19	34	<1	20	25.51	255	138	<5	116	<5
DWR00002	FU9614	150	156	0.15	906	13	44	<1	6	28.63	1570	232	<5	73	<5
DWR00002	FU9615	156	162	0.21	297	14	21	7	12	32.75	259	394	<5	50	<5
DWR00002	FU9616	162	168	0.02	156	21	32	5	8	35.83	333	91	<5	31	<5
DWR00002	FU9617	168	174	<0.02	168	37	42	1	7	25.43	374	50	<5	27	<5
DWR00002	FU9618	174	180	<0.02	111	10	37	2	7	43.44	424	37	<5	51	<5
DWR00002	FU9619	180	186	<0.02	227	8	52	<1	12	16.96	6850	34	<5	89	<5
DWR00002	FU9620	186	192	<0.02	64	8	38	<1	12	4.57	2890	8	<5	24	<5
DWR00002	FU9621	192	198	<0.02	120	7	27	<1	9	3.64	1520	9	<5	20	<5
DWR00002	FU9622	198	204	<0.02	217	14	43	<1	20	2.37	246	6	<5	31	<5
DWR00002	FU9623	204	210	<0.02	153	11	37	<1	22	2.02	205	<5	<5	33	<5
DWR00002	FU9624	210	216	0.06	450	13	49	<1	25	3.21	280	9	<5	68	<5
DWR00002	FU9625	216	223	<0.02	95	7	36	<1	11	3.05	429	8	<5	50	<5
DWR00003	FU9626	12	14	<0.02	55	17	51	<1	7	7.99	560	8	<5	11	<5
DWR00003	FU9627	14	16	<0.02	75	17	59	<1	9	8.37	326	9	<5	9	<5
DWR00003	FU9628	16	18	<0.02	67	20	53	<1	9	6.18	241	9	<5	9	<5
DWR00003	FU9629	18	24	<0.02	39	26	45	<1	<5	1.26	47	6	<5	7	<5
DWR00003	FU9630	24	30	<0.02	66	22	39	<1	7	5.23	54	6	<5	9	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00003	FU9631	30	36	<0.02	30	7	40	<1	<5	5.55	116	<5	<5	7	<5
DWR00003	FU9632	36	42	<0.02	28	7	64	<1	<5	5.06	185	<5	<5	8	<5
DWR00003	FU9633	42	48	<0.02	15	<5	90	<1	<5	5.07	620	<5	<5	14	<5
DWR00003	FU9634	48	54	<0.02	5	<5	67	<1	8	4.85	618	<5	<5	14	<5
DWR00003	FU9636	54	60	<0.02	<5	6	72	<1	5	5.24	741	<5	<5	20	<5
DWR00003	FU9637	60	66	<0.02	6	<5	65	<1	<5	6	323	<5	<5	14	<5
DWR00003	FU9638	66	72	<0.02	22	7	91	<1	10	6.77	797	<5	<5	17	<5
DWR00003	FU9639	72	78	<0.02	<5	6	62	<1	5	4.65	743	<5	<5	15	<5
DWR00003	FU9640	78	84	<0.02	<5	<5	62	<1	<5	5.39	718	<5	<5	15	<5
DWR00003	FU9641	84	90	<0.02	9	8	56	<1	<5	5.78	1150	5	<5	22	<5
DWR00003	FU9642	90	96	<0.02	24	12	89	<1	7	7.51	2150	5	<5	32	<5
DWR00003	FU9643	96	102	<0.02	11	6	64	<1	7	7.71	1760	6	<5	25	<5
DWR00003	FU9644	102	108	<0.02	<5	6	47	<1	10	6.42	1330	6	<5	24	<5
DWR00003	FU9645	108	114	<0.02	<5	<5	42	<1	5	8.95	1150	5	<5	27	<5
DWR00003	FU9646	114	120	<0.02	19	<5	42	<1	<5	8.28	1140	<5	<5	27	<5
DWR00003	FU9647	120	126	<0.02	27	<5	48	<1	5	8.16	2530	7	<5	29	<5
DWR00003	FU9648	126	132	<0.02	5	<5	50	<1	<5	7.14	1820	<5	<5	27	<5
DWR00003	FU9649	132	140	<0.02	<5	6	77	<1	<5	3.92	2460	<5	<5	26	<5
DWR00004	FU9650	16	18	<0.02	14	13	22	<1	<5	2.34	215	<5	<5	7	<5
DWR00004	FU9651	18	20	<0.02	15	14	23	<1	<5	2.48	228	<5	<5	6	<5
DWR00004	FU9652	20	22	<0.02	13	16	18	<1	6	4.05	156	5	<5	6	<5
DWR00004	FU9653	22	28	<0.02	91	9	13	<1	7	9.27	430	5	<5	25	<5
DWR00004	FU9654	28	34	<0.02	106	<5	26	<1	<5	13.36	923	<5	<5	28	<5
DWR00004	FU9655	34	40	<0.02	359	<5	70	<1	<5	8.96	7020	5	<5	150	<5
DWR00004	FU9656	40	46	<0.02	439	<5	227	<1	7	8.43	4350	5	<5	275	<5
DWR00004	FU9657	46	52	<0.02	221	12	147	<1	9	10.15	2240	5	<5	63	<5
DWR00004	FU9658	52	58	<0.02	198	15	95	<1	7	10.07	1580	<5	<5	50	<5
DWR00004	FU9659	58	64	<0.02	245	11	121	<1	7	10.9	1640	6	<5	52	<5
DWR00004	FU9661	64	70	<0.02	265	8	84	<1	8	9.48	1310	6	<5	58	<5
DWR00004	FU9662	70	76	<0.02	431	16	173	<1	11	10.34	1130	6	<5	62	<5
DWR00004	FU9663	76	82	<0.02	195	8	135	<1	8	9.91	1400	5	<5	52	<5
DWR00004	FU9664	82	88	<0.02	175	6	66	<1	7	10.62	1160	6	<5	53	<5
DWR00004	FU9666	88	94	<0.02	258	8	52	1	9	10.58	896	6	<5	50	<5
DWR00004	FU9667	94	100	<0.02	105	6	51	1	16	12.41	1210	10	<5	65	<5
DWR00004	FU9668	100	106	<0.02	196	8	43	<1	9	11.89	816	7	<5	64	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00004	FU9669	106	112	<0.02	517	<5	46	1	9	11.42	737	8	<5	66	<5
DWR00004	FU9670	112	118	<0.02	645	6	35	<1	9	10.99	566	6	<5	59	<5
DWR00004	FU9671	118	124	0.02	553	7	23	<1	5	10.06	527	9	<5	63	<5
DWR00004	FU9672	124	130	<0.02	128	<5	33	<1	5	10.51	644	5	<5	80	<5
DWR00004	FU9673	130	136	<0.02	125	7	44	<1	5	13.42	1040	7	<5	55	<5
DWR00004	FU9674	136	142	<0.02	209	<5	73	<1	6	13.41	1330	7	<5	76	<5
DWR00004	FU9675	142	148	<0.02	180	7	75	<1	7	11.59	1400	7	<5	54	<5
DWR00004	FU9676	148	154	<0.02	137	7	52	<1	<5	11.48	1020	6	<5	57	<5
DWR00004	FU9677	154	160	<0.02	101	<5	69	<1	9	12.84	1110	10	<5	72	<5
DWR00004	FU9678	160	166	<0.02	249	<5	42	<1	<5	12.88	907	6	<5	62	<5
DWR00004	FU9679	166	174	<0.02	211	<5	23	<1	<5	12.47	582	6	<5	74	<5
DWR00005	FU9680	8	10	<0.02	32	22	69	<1	<5	4.04	486	5	<5	16	<5
DWR00005	FU9681	10	12	<0.02	26	18	54	<1	<5	3.54	305	5	<5	11	<5
DWR00005	FU9682	12	14	<0.02	26	24	43	<1	9	3.97	402	7	<5	13	<5
DWR00005	FU9683	14	20	<0.02	26	61	60	<1	19	3.86	335	9	<5	7	<5
DWR00005	FU9684	20	26	<0.02	22	53	77	2	22	2.46	96	12	<5	6	<5
DWR00005	FU9685	26	32	<0.02	11	51	65	<1	7	0.93	113	5	<5	<5	<5
DWR00005	FU9686	32	38	<0.02	<5	58	18	<1	<5	0.32	36	<5	<5	<5	<5
DWR00005	FU9687	38	44	<0.02	14	50	28	<1	10	1.19	41	<5	<5	<5	<5
DWR00005	FU9688	44	50	<0.02	39	46	36	<1	30	3.62	46	9	<5	<5	<5
DWR00005	FU9689	50	56	<0.02	26	51	78	<1	6	3.43	57	<5	<5	<5	<5
DWR00005	FU9691	56	62	<0.02	26	45	92	<1	7	3.63	71	7	<5	<5	<5
DWR00005	FU9692	62	68	<0.02	23	54	119	<1	9	3.68	71	<5	<5	<5	<5
DWR00005	FU9693	68	74	<0.02	28	63	96	<1	8	3.63	77	<5	<5	<5	<5
DWR00005	FU9694	74	80	<0.02	32	114	82	<1	17	3.28	51	<5	<5	<5	<5
DWR00005	FU9695	80	86	<0.02	48	107	178	<1	50	3.77	108	<5	<5	10	<5
DWR00005	FU9696	86	92	<0.02	30	41	194	<1	9	3.01	154	<5	<5	14	<5
DWR00005	FU9697	92	98	<0.02	27	52	116	<1	6	3.93	212	<5	<5	17	<5
DWR00005	FU9698	98	104	<0.02	23	57	46	<1	<5	4	277	<5	<5	12	<5
DWR00005	FU9699	104	110	<0.02	36	55	125	<1	10	3.72	223	8	<5	13	<5
DWR00005	FU9700	110	116	<0.02	25	52	45	<1	<5	3.8	315	<5	<5	14	<5
DWR00005	FU9701	116	122	<0.02	30	42	67	<1	<5	4.35	308	<5	<5	15	<5
DWR00005	FU9702	122	128	<0.02	31	29	56	<1	25	3.92	278	<5	<5	17	<5
DWR00005	FU9703	128	134	<0.02	45	32	47	<1	6	4.61	449	<5	<5	17	<5
DWR00005	FU9704	134	140	<0.02	47	44	46	<1	9	4.39	285	<5	<5	16	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00005	FU9705	140	146	<0.02	26	27	36	<1	6	3.89	236	<5	<5	13	<5
DWR00005	FU9706	146	152	<0.02	33	27	40	<1	<5	4.14	246	<5	<5	17	<5
DWR00005	FU9707	152	158	<0.02	26	41	82	<1	8	3.86	224	<5	<5	15	<5
DWR00005	FU9708	158	164	<0.02	33	30	75	<1	5	3.76	215	<5	<5	15	<5
DWR00005	FU9709	164	170	<0.02	34	43	289	<1	8	4.11	240	8	<5	22	<5
DWR00005	FU9711	170	176	<0.02	28	42	48	<1	5	3.73	231	<5	<5	13	<5
DWR00005	FU9712	176	180	<0.02	41	63	170	<1	<5	4.04	244	<5	<5	14	<5
DWR00006	FU9713	10	12	<0.02	23	14	43	<1	<5	2.26	201	<5	<5	9	<5
DWR00006	FU9714	12	14	<0.02	20	17	41	<1	7	2.55	199	<5	<5	8	<5
DWR00006	FU9715	14	16	<0.02	18	13	28	<1	5	2.32	147	<5	<5	6	<5
DWR00006	FU9716	16	22	<0.02	44	43	68	<1	14	3.79	223	<5	<5	<5	<5
DWR00006	FU9717	22	28	<0.02	15	47	62	<1	8	3.62	250	<5	<5	<5	<5
DWR00006	FU9718	28	34	<0.02	14	45	57	<1	17	3.31	220	<5	<5	<5	<5
DWR00006	FU9719	34	40	<0.02	12	34	28	<1	12	2.73	133	<5	<5	<5	<5
DWR00006	FU9720	40	46	<0.02	20	42	30	<1	5	3.49	116	<5	<5	<5	<5
DWR00006	FU9721	46	52	<0.02	26	48	38	<1	13	3.25	125	<5	<5	<5	<5
DWR00006	FU9722	52	58	<0.02	23	51	36	<1	30	2.97	148	<5	<5	<5	<5
DWR00006	FU9723	58	64	<0.02	47	63	43	<1	16	3.54	116	<5	<5	<5	<5
DWR00006	FU9724	64	70	<0.02	50	50	98	<1	11	3.41	160	<5	<5	12	<5
DWR00006	FU9726	70	76	<0.02	30	70	74	<1	5	3.27	263	<5	<5	18	<5
DWR00006	FU9727	76	82	<0.02	21	63	44	<1	<5	3.43	350	<5	<5	16	<5
DWR00006	FU9728	82	88	<0.02	42	58	32	<1	6	3.58	282	<5	<5	11	<5
DWR00006	FU9729	88	94	<0.02	18	44	37	1	15	2.66	244	<5	<5	15	<5
DWR00006	FU9730	94	100	<0.02	32	31	38	<1	18	2.77	161	<5	<5	15	<5
DWR00006	FU9731	100	106	<0.02	13	47	33	<1	40	3.17	248	12	<5	12	<5
DWR00006	FU9732	106	112	<0.02	35	50	36	<1	15	2.94	205	8	<5	11	<5
DWR00006	FU9733	112	118	<0.02	21	50	45	<1	26	2.89	269	7	<5	15	<5
DWR00006	FU9734	118	124	<0.02	34	58	53	<1	<5	2.75	225	<5	<5	11	<5
DWR00006	FU9735	124	130	<0.02	26	63	71	<1	<5	3.18	257	<5	<5	11	<5
DWR00006	FU9736	130	136	<0.02	32	70	55	<1	<5	4.25	337	<5	<5	15	<5
DWR00006	FU9737	136	142	<0.02	23	65	77	<1	<5	4.01	332	<5	<5	11	<5
DWR00006	FU9738	142	148	<0.02	45	58	54	<1	29	3.89	270	<5	<5	17	<5
DWR00006	FU9739	148	154	<0.02	18	59	40	<1	7	4.38	406	<5	<5	13	<5
DWR00006	FU9740	154	160	<0.02	34	59	36	<1	11	4.35	391	<5	<5	17	<5
DWR00006	FU9741	160	166	<0.02	22	57	42	<1	6	4.57	450	<5	<5	14	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00006	FU9742	166	172	<0.02	17	51	36	<1	28	3.84	405	<5	<5	15	<5
DWR00006	FU9743	172	178	<0.02	25	52	34	<1	5	4.72	439	<5	<5	13	<5
DWR00006	FU9744	178	180	<0.02	26	42	40	<1	<5	3.87	331	<5	<5	12	<5
DWR00007	FU9746	6	8	<0.02	17	17	47	<1	<5	2.62	472	<5	<5	10	<5
DWR00007	FU9747	8	10	<0.02	18	18	42	<1	<5	3.37	548	<5	<5	10	<5
DWR00007	FU9748	10	12	<0.02	13	14	31	<1	<5	5.15	456	<5	<5	<5	<5
DWR00007	FU9749	12	18	<0.02	<5	6	29	<1	<5	3.39	191	<5	<5	<5	<5
DWR00007	FU9750	18	24	<0.02	13	9	34	<1	<5	4.71	221	<5	<5	<5	<5
DWR00007	FU9751	24	30	<0.02	28	6	42	<1	<5	5.5	194	<5	<5	7	<5
DWR00007	FU9752	30	36	<0.02	22	7	51	<1	<5	4.85	191	<5	<5	<5	<5
DWR00007	FU9753	36	42	<0.02	23	10	53	<1	<5	4.82	289	<5	<5	<5	<5
DWR00007	FU9754	42	48	<0.02	35	7	48	<1	<5	4.13	223	<5	<5	<5	<5
DWR00007	FU9755	48	54	<0.02	15	9	63	<1	<5	4.29	260	<5	<5	5	<5
DWR00007	FU9756	54	60	<0.02	18	12	66	<1	<5	4.38	298	<5	<5	7	<5
DWR00007	FU9757	60	66	<0.02	36	11	93	<1	<5	4.8	381	<5	<5	13	<5
DWR00007	FU9758	66	72	<0.02	71	7	105	<1	<5	4.14	343	<5	<5	13	<5
DWR00007	FU9759	72	78	<0.02	98	9	130	<1	<5	4.34	505	<5	<5	21	<5
DWR00007	FU9761	78	84	<0.02	9	8	93	<1	<5	3.62	1210	<5	<5	19	<5
DWR00007	FU9762	84	90	<0.02	12	8	119	<1	<5	4.02	1420	<5	<5	23	<5
DWR00007	FU9763	90	96	<0.02	<5	11	112	<1	<5	3.83	1140	<5	<5	19	<5
DWR00007	FU9764	96	102	<0.02	16	6	104	<1	<5	4.09	743	<5	<5	18	<5
DWR00007	FU9765	102	108	<0.02	32	7	103	<1	<5	3.98	716	<5	<5	18	<5
DWR00007	FU9766	108	114	<0.02	61	7	111	<1	<5	4.33	845	<5	<5	19	<5
DWR00007	FU9767	114	120	<0.02	17	11	115	<1	<5	4.6	970	<5	<5	19	<5
DWR00007	FU9768	120	126	<0.02	88	7	104	<1	<5	4.04	891	<5	<5	18	<5
DWR00007	FU9769	126	132	<0.02	29	8	101	<1	<5	3.94	904	<5	<5	17	<5
DWR00007	FU9771	132	138	<0.02	15	15	105	<1	<5	4.64	903	<5	<5	20	<5
DWR00007	FU9772	138	144	<0.02	33	6	79	<1	<5	4.09	757	<5	<5	17	<5
DWR00007	FU9773	144	150	<0.02	<5	6	77	<1	<5	4.01	794	<5	<5	16	<5
DWR00007	FU9774	150	156	<0.02	34	7	75	<1	<5	4.12	706	<5	<5	18	<5
DWR00007	FU9775	156	162	<0.02	<5	6	82	<1	<5	4.19	1160	<5	<5	17	<5
DWR00007	FU9776	162	168	<0.02	<5	8	79	<1	<5	4.35	1010	<5	<5	18	<5
DWR00007	FU9777	168	174	<0.02	<5	<5	75	<1	<5	4.42	804	<5	<5	19	<5
DWR00007	FU9778	174	180	<0.02	19	<5	36	<1	<5	3.86	569	<5	<5	16	<5
DWR00007	FU9779	180	186	<0.02	80	<5	53	<1	<5	3.86	762	<5	<5	15	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION				0.02	5	5	5	1	5	0.01	5	5	5	5	5
METHOD				PM202	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587
DWR00007	FU9780	186	192	<0.02	23	6	64	<1	<5	3.71	934	<5	<5	16	<5
DWR00007	FU9781	192	196	<0.02	31	6	62	<1	<5	3.67	764	<5	<5	15	<5
DWR00008	FU9782	0	2	<0.02	15	14	40	<1	7	2.04	268	<5	<5	8	<5
DWR00008	FU9783	2	8	<0.02	<5	10	132	<1	<5	3.56	1410	<5	<5	18	<5
DWR00008	FU9784	8	14	<0.02	49	13	163	<1	<5	4.03	1040	5	<5	19	<5
DWR00008	FU9785	14	20	<0.02	25	10	165	<1	<5	4.34	1350	<5	<5	19	<5
DWR00008	FU9786	20	26	<0.02	61	9	163	<1	<5	3.88	996	<5	<5	18	<5
DWR00008	FU9787	26	32	<0.02	70	9	164	<1	<5	4.21	752	<5	<5	20	<5
DWR00008	FU9788	32	38	<0.02	32	9	142	<1	<5	3.81	786	<5	<5	16	<5
DWR00008	FU9789	38	44	<0.02	69	9	169	<1	<5	4.1	890	<5	<5	18	<5
DWR00008	FU9790	44	50	<0.02	20	8	148	<1	<5	3.83	1110	<5	<5	16	<5
DWR00008	FU9791	50	56	<0.02	18	9	151	<1	<5	3.96	1060	<5	<5	16	<5
DWR00008	FU9792	56	62	<0.02	249	8	168	<1	<5	4.63	617	<5	<5	19	<5
DWR00008	FU9793	62	68	<0.02	118	8	167	<1	<5	3.99	904	<5	<5	19	<5
DWR00008	FU9794	68	74	<0.02	224	14	182	<1	<5	4.55	1080	<5	<5	20	<5
DWR00008	FU9796	74	80	<0.02	290	8	185	<1	<5	4.39	925	<5	<5	21	<5
DWR00008	FU9797	80	86	<0.02	417	10	165	<1	<5	4.16	1080	<5	<5	19	<5
DWR00008	FU9798	86	92	<0.02	74	10	158	<1	<5	3.92	1420	<5	<5	19	<5
DWR00008	FU9799	92	98	<0.02	113	9	151	<1	<5	4.11	1280	<5	<5	18	<5
DWR00008	FU9800	98	104	<0.02	95	11	164	<1	<5	3.95	1340	<5	<5	20	<5
DWR00008	FU9801	104	110	<0.02	63	12	163	<1	<5	4.43	731	<5	<5	20	<5
DWR00008	FU9802	110	116	<0.02	71	7	149	<1	<5	4	953	5	<5	18	<5
DWR00008	FU9803	116	122	<0.02	17	9	161	<1	<5	4.52	1480	<5	<5	20	<5
DWR00008	FU9804	122	128	<0.02	<5	9	90	<1	<5	4.72	1350	<5	<5	18	<5
DWR00008	FU9805	128	134	<0.02	<5	7	131	<1	<5	4	1240	<5	<5	18	<5
DWR00008	FU9806	134	140	<0.02	<5	10	148	<1	<5	4.27	2030	<5	<5	19	<5
DWR00008	FU9807	140	146	<0.02	10	9	161	<1	<5	4.35	1580	<5	<5	20	<5
DWR00008	FU9808	146	150	<0.02	<5	9	144	<1	<5	4.24	1680	<5	<5	19	<5
DWR00009	FU9809	4	6	<0.02	17	13	48	<1	<5	2.71	289	<5	<5	10	<5
DWR00009	FU9810	6	8	<0.02	12	18	32	<1	<5	2.13	219	<5	<5	6	<5
DWR00009	FU9811	8	10	<0.02	14	15	24	<1	<5	1.96	290	<5	<5	7	<5
DWR00009	FU9812	10	16	<0.02	19	5	82	<1	<5	4.31	477	<5	<5	12	<5
DWR00009	FU9813	16	22	<0.02	68	9	170	<1	<5	3.76	558	<5	<5	17	<5
DWR00009	FU9814	22	28	<0.02	180	9	282	<1	<5	3.63	9550	<5	<5	107	<5
DWR00009	FU9815	28	34	<0.02	115	12	351	<1	<5	4.22	6550	<5	<5	102	<5

Hole	Sample	From	To	Au	Cu	Pb	Zn	Ag	As	Fe	Mn	Mo	Cd	Co	Bi
UNITS				**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
DETECTION				**0.02**	**5**	**5**	**5**	**1**	**5**	**0.01**	**5**	**5**	**5**	**5**	**5**
METHOD				**PM202**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**	**IC587**
DWR00009	FU9816	34	40	<0.02	71	8	264	<1	<5	4.39	2950	<5	<5	37	<5
DWR00009	FU9817	40	46	<0.02	397	6	233	<1	<5	3.65	1630	7	<5	29	9
DWR00009	FU9818	46	52	<0.02	170	<5	188	<1	<5	3.52	1270	<5	<5	29	<5
DWR00009	FU9819	52	58	<0.02	27	8	190	<1	<5	3.81	1650	<5	<5	24	<5
DWR00009	FU9822	58	64	<0.02	47	10	190	<1	<5	3.88	1570	<5	<5	25	<5
DWR00009	FU9823	64	70	<0.02	35	11	177	<1	<5	3.5	1580	<5	<5	26	<5
DWR00009	FU9824	70	76	<0.02	35	7	153	<1	<5	3.56	1770	<5	<5	24	<5
DWR00009	FU9825	76	82	<0.02	33	10	175	<1	<5	3.85	1540	<5	<5	23	<5
DWR00009	FU9826	82	88	<0.02	31	10	178	<1	<5	3.88	1620	<5	<5	23	<5
DWR00009	FU9827	88	94	<0.02	25	7	177	<1	<5	4.25	1820	<5	<5	22	<5
DWR00009	FU9828	94	100	<0.02	59	7	186	<1	<5	4.4	1990	<5	<5	24	<5
DWR00009	FU9829	100	106	<0.02	36	9	194	<1	<5	4.62	1890	<5	<5	26	<5
DWR00009	FU9830	106	112	<0.02	17	9	181	<1	<5	3.98	1770	<5	<5	23	<5
DWR00009	FU9831	112	118	<0.02	40	11	186	<1	<5	4.1	1770	<5	<5	24	<5
DWR00009	FU9832	118	124	<0.02	24	9	209	<1	<5	4.41	2120	<5	<5	25	<5
DWR00009	FU9833	124	130	<0.02	222	10	200	<1	5	4.83	1300	<5	<5	24	<5
DWR00009	FU9834	130	136	<0.02	335	7	208	<1	<5	4.7	1260	7	<5	25	<5
DWR00009	FU9835	136	142	<0.02	361	7	216	<1	<5	4.44	1780	10	<5	26	<5
DWR00009	FU9836	142	150	<0.02	31	8	179	<1	<5	4.09	1760	<5	<5	23	<5

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9558	44	46	60	3.53	321	0.06	0.13	0.07	0.22	23	106	18	5330	28
FU9559	46	48	65	3.75	44	0.05	0.13	0.06	0.21	20	121	17	5540	26
FU9560	48	50	65	4.57	149	0.06	0.16	0.08	0.2	21	109	19	5920	28
FU9561	50	56	103	5.63	162	0.08	0.23	0.12	0.2	29	372	26	9300	35
FU9562	56	62	63	7.6	278	0.31	1.6	1.5	1.61	77	1080	65	9660	230
FU9563	62	68	37	7.11	342	0.2	1.84	2.53	2.62	65	364	64	8400	345
FU9564	68	74	38	7.88	247	0.24	1.58	1.47	3.97	55	288	64	5000	158
FU9565	74	80	44	7.85	29	0.21	0.53	0.86	5.38	37	129	54	3470	71
FU9566	80	86	52	7.83	90	0.24	0.69	0.97	5.36	44	242	59	2920	98
FU9567	86	92	44	7.55	66	0.4	1.03	1.35	4.9	50	874	60	4490	128
FU9568	92	98	40	7.39	143	0.43	1.35	1.69	4.63	44	955	54	5540	164
FU9569	98	104	13	6.86	117	1.44	1.49	1.64	4.2	46	3350	55	12500	164
FU9570	104	110	41	7.85	202	3.5	1.7	2.66	3.76	62	1100	185	12810	163
FU9571	110	116	31	7.12	193	1.09	1.73	3.34	3.43	61	1050	76	7600	340
FU9572	116	122	32	6.75	163	1.08	2.18	3.24	3.12	55	937	55	7190	282
FU9573	122	128	49	6.58	231	3.42	2.16	3.44	2.65	54	853	108	7690	240
FU9574	128	134	57	7.23	249	3.38	2.05	3.82	2.7	63	903	111	7790	240
FU9575	134	140	55	6.97	272	4.54	1.79	3.35	2.77	54	872	138	8500	182
FU9576	140	146	55	5.96	131	2.35	1.71	3.2	2.71	52	810	80	7700	202
FU9577	146	152	47	6.9	135	4.76	1.19	3.11	4.24	48	1020	140	11700	141
FU9578	152	158	25	6.95	139	2.66	1.23	2.55	3.8	31	2990	46	10300	123
FU9579	158	164	65	6.98	119	2.98	1.3	2.62	3.95	26	4060	34	10200	121
FU9580	164	170	34	6.93	156	2.43	1.3	2.65	3.62	33	3300	34	8720	113
FU9581	170	176	9	7.08	172	1.76	1.13	2.1	4.13	29	3570	33	8700	105
FU9582	176	182	27	6.44	129	1.79	1.26	2.02	3.74	26	3870	27	8890	132
FU9583	182	188	36	6.48	53	1.9	0.95	2.05	3.89	33	4720	24	7640	123
FU9585	188	195	6	6.78	348	2.54	2.01	2.35	3.3	30	5680	35	8930	153
FU9586	6	8	58	7.27	410	0.37	1.5	0.75	1.39	19	254	135	3410	114
FU9587	8	10	84	4.78	905	0.21	1.13	0.31	1.51	13	337	58	1590	71
FU9588	10	12	41	9.13	1450	8	0.78	0.83	0.62	16	209	191	2170	55
FU9589	12	18	50	11.46	842	5.44	0.39	1.28	0.38	19	421	181	2420	27
FU9590	18	24	45	11.26	1260	0.57	0.61	0.22	0.25	21	742	71	2420	33
FU9591	24	30	50	6.55	1170	0.03	0.5	0.09	0.24	23	544	32	2160	29
FU9592	30	36	47	10.79	4090	0.18	6.04	0.17	0.22	17	725	314	2510	138
FU9593	36	42	40	8.48	3500	0.1	6.39	0.46	0.21	19	603	360	2380	256

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9594	42	48	46	9.44	3310	0.03	6.68	0.56	0.24	24	771	304	2760	246
FU9595	48	54	52	8.86	4100	0.03	6.69	0.57	0.22	23	641	432	2510	270
FU9596	54	60	48	8.44	3980	0.03	6.86	1.09	0.21	32	559	620	2710	275
FU9597	60	66	36	8.05	6430	0.04	5.09	0.85	0.23	32	764	696	2100	242
FU9598	66	72	48	7.99	3760	0.08	5.75	1.06	0.35	33	602	338	2070	256
FU9599	72	78	51	8.47	1960	0.05	6.2	1.17	0.28	35	299	239	2560	301
FU9600	78	84	46	8.34	1380	0.07	6.94	1.59	0.35	56	372	184	2860	281
FU9601	84	90	40	8.17	2360	0.21	6.68	1.51	0.42	52	876	211	2620	253
FU9602	90	96	51	8.68	1770	0.21	6.18	1.44	0.41	46	897	223	2870	202
FU9603	96	102	62	8.34	1550	0.5	6.35	1.46	0.53	41	930	185	3050	223
FU9604	102	108	48	7.97	2180	0.5	6.83	1.39	0.48	40	1440	205	2950	228
FU9605	108	114	50	5.43	3580	0.27	6.26	1.01	0.44	33	928	139	1510	220
FU9606	114	120	59	7.85	4150	0.64	5.99	1.27	0.56	32	1650	154	2110	228
FU9607	120	126	56	7.6	3390	0.22	6.08	1.07	0.44	25	876	122	2220	224
FU9608	126	132	51	7.61	4770	0.23	6.45	1.23	0.51	32	1020	155	2320	236
FU9611	132	138	49	7.48	5700	0.24	6.94	1.3	0.58	37	1140	175	2200	227
FU9612	138	144	63	7.28	4260	0.22	6.6	1.29	0.71	34	1010	113	2170	200
FU9613	144	150	56	5.01	2090	0.68	5.36	1.09	0.44	48	2740	60	1010	118
FU9614	150	156	32	3.73	1380	0.39	3.05	0.93	1.32	39	1410	57	660	74
FU9615	156	162	33	1.7	685	0.74	1.45	0.49	0.09	24	3230	51	349	28
FU9616	162	168	83	1.1	283	1.1	0.38	0.62	0.05	23	4480	47	430	13
FU9617	168	174	59	0.77	527	0.95	0.42	0.33	0.03	19	4160	60	446	13
FU9618	174	180	<5	0.7	476	0.45	0.24	0.47	0.03	38	2080	65	220	<10
FU9619	180	186	42	4.29	1380	0.42	3.01	0.99	0.12	45	1460	77	2030	134
FU9620	186	192	74	8.87	1210	0.27	4.39	1.01	0.12	38	925	74	3700	270
FU9621	192	198	64	5.64	516	0.17	3.34	0.66	0.1	32	974	25	3520	232
FU9622	198	204	31	2.23	806	5.29	2.04	0.24	0.11	11	21600	116	659	62
FU9623	204	210	74	0.92	248	10.45	0.49	0.26	0.07	13	40600	155	230	22
FU9624	210	216	133	0.53	611	4.6	0.17	0.17	0.07	18	18800	101	251	<10
FU9625	216	223	95	0.83	267	4.43	0.33	0.17	0.13	15	17500	98	250	18
FU9626	12	14	65	9.67	259	0.44	0.84	0.71	0.54	24	529	73	7910	68
FU9627	14	16	80	12.85	97	1.12	0.15	0.32	0.26	23	773	50	13600	18
FU9628	16	18	80	13.71	119	1.59	0.11	0.23	0.22	23	338	44	17000	13
FU9629	18	24	69	7.32	52	0.4	0.07	0.07	0.19	28	171	19	14500	13
FU9630	24	30	64	13.56	523	0.14	0.04	1.61	0.49	21	241	39	7640	<10

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9631	30	36	44	7.54	31	0.18	0.08	2.83	3.9	20	160	38	3070	<10
FU9632	36	42	46	6.79	51	0.18	0.22	2.31	4.58	20	105	34	3270	18
FU9633	42	48	47	8.32	161	0.24	0.33	2.56	5.72	29	272	41	3420	32
FU9634	48	54	34	6.77	145	0.66	0.24	2.6	4.79	25	2130	40	2570	27
FU9636	54	60	40	7.05	172	0.44	0.31	2.92	4.96	30	982	44	2590	30
FU9637	60	66	41	7.19	49	0.4	0.31	3.5	4.61	32	397	42	2670	26
FU9638	66	72	57	7.89	44	2.31	0.39	3.25	5.81	32	2480	67	4160	43
FU9639	72	78	40	6.22	73	1.46	0.26	2.79	4.48	22	1130	51	3050	26
FU9640	78	84	58	5.43	68	0.38	0.76	3.28	4.58	27	145	42	2860	20
FU9641	84	90	43	5.63	683	2.67	2.28	3.62	2.89	23	914	86	4190	85
FU9642	90	96	76	5.44	810	4.84	2.35	3.57	1.97	33	755	216	6280	80
FU9643	96	102	56	5.89	1490	3.31	3.55	3.85	1.72	30	910	85	6460	114
FU9644	102	108	43	7.18	1170	3.66	3.2	4.58	2.83	29	3570	62	8790	92
FU9645	108	114	51	6.21	355	2.6	1.22	4.35	3.42	36	1530	38	4870	48
FU9646	114	120	51	5.23	135	2.42	0.83	3.7	3.56	19	1160	29	4030	40
FU9647	120	126	59	5.71	862	4	2.13	3.86	2.75	26	1230	123	6640	80
FU9648	126	132	60	6.42	410	3.74	1.07	4.43	3.56	36	702	68	4920	43
FU9649	132	140	49	6.66	1170	3.67	3.39	5.15	2.36	33	210	36	4110	102
FU9650	16	18	31	4.78	254	2.24	1.38	0.48	1.17	10	188	58	2570	99
FU9651	18	20	76	3.81	270	1.93	1.36	0.35	1.17	11	181	57	2650	114
FU9652	20	22	178	3.53	242	0.59	0.96	0.29	0.72	10	198	45	1880	67
FU9653	22	28	35	9.28	145	1.59	0.42	0.43	0.21	23	395	59	15400	35
FU9654	28	34	63	12.59	25	0.38	0.04	0.23	0.1	32	205	24	6680	<10
FU9655	34	40	41	10.12	445	0.37	0.12	0.52	5.12	38	107	81	5560	<10
FU9656	40	46	29	7.9	335	1.6	0.41	1.37	4.25	70	515	178	9390	58
FU9657	46	52	35	7.21	192	4.68	1.06	2.51	3.68	64	1070	260	13600	80
FU9658	52	58	33	6.78	138	5.45	0.99	2.86	3.18	56	970	250	11800	63
FU9659	58	64	44	5.99	146	6.36	1	2.82	3.38	54	975	328	12600	55
FU9661	64	70	32	5.79	94	5.49	0.7	2.51	3.3	50	1000	253	11600	35
FU9662	70	76	14	6.03	91	5.7	0.77	2.37	3.9	43	1550	181	14710	26
FU9663	76	82	40	5.55	257	6.05	0.97	2.66	2.93	50	936	255	11510	38
FU9664	82	88	58	5.39	205	7.19	0.86	3.37	2.82	49	749	259	11400	35
FU9666	88	94	45	5.05	268	6.2	0.9	3.28	2.92	46	663	150	11100	35
FU9667	94	100	49	6.63	399	7.28	1.38	3.98	3.07	49	719	232	12210	48
FU9668	100	106	42	7.08	291	8.11	1.05	3.62	3.11	45	1190	341	14000	29

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9669	106	112	31	7.56	362	7.74	1.16	3.62	3.3	47	1610	182	15500	32
FU9670	112	118	22	6.98	203	6.85	0.84	3.36	3.47	40	1470	168	14600	22
FU9671	118	124	23	6.61	178	7.22	0.69	3.07	2.95	42	1160	203	12600	23
FU9672	124	130	57	6.49	95	7.08	0.46	3.2	3.86	50	571	240	11200	21
FU9673	130	136	82	5.69	142	9.07	0.76	4.19	3.1	68	614	227	12900	33
FU9674	136	142	63	5.93	172	8.48	0.91	4.12	2.72	74	602	235	12200	42
FU9675	142	148	53	6.27	140	7.79	0.63	3.96	2.47	65	552	308	11010	32
FU9676	148	154	61	6.01	104	7.69	0.57	3.55	2.82	62	454	214	11700	28
FU9677	154	160	48	6	95	7.98	0.47	4.06	3	60	520	350	12210	27
FU9678	160	166	46	7.42	158	7.98	0.91	4	2.83	67	513	221	12200	35
FU9679	166	174	47	6.92	95	7.99	0.76	3.97	3.24	59	499	204	12200	35
FU9680	8	10	49	8.06	380	0.44	1.79	1.1	1.25	27	226	94	4110	123
FU9681	10	12	51	7.35	388	0.37	1.7	0.82	1.38	20	207	103	3680	118
FU9682	12	14	36	5.25	550	0.49	1.99	0.57	1.34	26	238	101	2910	126
FU9683	14	20	44	13.78	328	1.7	0.75	0.23	0.38	21	141	83	7490	66
FU9684	20	26	36	10.6	186	0.05	0.6	0.11	0.29	29	140	32	7920	56
FU9685	26	32	45	5.94	137	0.04	0.52	0.08	0.16	14	93	21	5310	47
FU9686	32	38	27	5.65	618	0.25	2.53	0.08	0.35	12	80	47	2530	186
FU9687	38	44	31	5.72	568	0.03	2.3	0.09	0.32	11	130	43	2820	168
FU9688	44	50	60	5.94	545	0.07	2.49	0.11	0.31	10	177	45	1950	189
FU9689	50	56	48	5.57	473	0.06	2.16	0.1	0.28	9	269	47	2210	177
FU9691	56	62	31	5.14	467	0.02	1.79	0.08	0.27	6	289	43	2920	108
FU9692	62	68	57	5.62	543	0.02	2.25	0.09	0.31	8	298	54	3020	153
FU9693	68	74	59	5.3	507	0.02	1.88	0.07	0.28	7	297	50	3320	105
FU9694	74	80	33	5.61	547	0.03	2.68	0.09	0.36	9	273	59	2860	185
FU9695	80	86	39	5.81	592	0.04	2.6	0.16	0.33	20	405	56	3330	232
FU9696	86	92	55	5.08	529	0.05	2.04	0.28	0.28	19	290	68	3350	172
FU9697	92	98	55	4.57	612	0.18	2.4	0.42	0.81	24	380	76	4210	172
FU9698	98	104	29	4.9	540	0.26	2.26	0.63	0.81	19	315	90	3910	171
FU9699	104	110	36	5.3	529	0.25	2.04	0.55	0.82	21	330	90	3500	151
FU9700	110	116	60	5.68	556	0.29	2	0.58	0.88	20	402	98	4200	156
FU9701	116	122	72	6.02	577	0.26	2.24	0.59	0.93	22	438	94	4040	168
FU9702	122	128	70	5.91	533	0.29	2.01	0.54	0.85	23	354	99	3580	143
FU9703	128	134	52	5.93	570	0.31	2.24	0.63	1	30	402	100	3840	162
FU9704	134	140	107	5.72	645	0.28	2.35	0.54	1.01	26	453	101	4280	173

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9705	140	146	67	5.69	491	0.26	1.94	0.56	0.85	19	356	92	3470	153
FU9706	146	152	63	5.37	510	0.23	2.09	0.53	0.86	23	334	89	3780	157
FU9707	152	158	43	5.56	513	0.29	2.19	0.53	0.87	22	329	84	3190	168
FU9708	158	164	105	4.68	518	0.14	2.4	0.43	0.8	21	341	62	3470	184
FU9709	164	170	85	5.53	513	0.19	2.5	0.51	0.96	26	433	70	3490	207
FU9711	170	176	52	5.6	542	0.27	2.19	0.53	0.92	20	342	93	3470	165
FU9712	176	180	46	5.36	631	0.27	2.31	0.56	1.02	19	345	97	3660	195
FU9713	10	12	35	4.77	328	0.2	1.36	0.53	1.73	14	197	62	2870	111
FU9714	12	14	28	4.64	306	0.2	1.25	0.45	1.72	14	281	110	2770	101
FU9715	14	16	228	3.87	272	0.53	1.49	0.22	0.9	11	244	76	1290	79
FU9716	16	22	85	6.33	715	0.12	2.26	0.06	0.45	12	85	47	4240	103
FU9717	22	28	67	5.76	647	0.12	1.88	0.08	0.37	12	146	50	4390	86
FU9718	28	34	77	5.53	665	0.08	2	0.09	0.35	12	210	53	4070	95
FU9719	34	40	37	4.39	550	0.03	1.74	0.06	0.28	7	214	38	3720	89
FU9720	40	46	33	4.49	587	0.11	1.78	0.05	0.31	6	294	44	4130	93
FU9721	46	52	107	5.69	604	0.08	1.8	0.06	0.3	7	197	45	3560	93
FU9722	52	58	82	6.69	813	0.02	2.05	0.07	0.32	9	285	63	3920	101
FU9723	58	64	65	5.43	702	0.03	2.13	0.07	0.32	10	297	61	3540	115
FU9724	64	70	60	5.65	707	0.04	2.98	0.13	0.46	22	437	64	2870	254
FU9726	70	76	32	5.28	2890	0.12	2.39	0.34	0.59	24	349	111	3690	254
FU9727	76	82	98	5.46	678	0.14	2	0.36	0.7	25	372	74	3910	185
FU9728	82	88	74	5.7	669	0.12	2.2	0.4	0.62	16	282	85	3590	171
FU9729	88	94	79	3.18	506	0.08	1.36	0.22	0.46	18	293	59	3030	147
FU9730	94	100	52	2.28	484	0.05	1.95	0.2	0.59	20	310	37	2210	174
FU9731	100	106	37	3.77	599	0.15	2.18	0.34	1.27	23	358	77	3440	174
FU9732	106	112	50	4.28	611	0.13	2.06	0.43	1.02	17	302	65	3190	170
FU9733	112	118	92	4.35	671	0.12	2.49	0.4	1.31	18	311	65	3700	196
FU9734	118	124	73	3.78	647	0.11	1.7	0.35	0.91	18	307	60	3900	193
FU9735	124	130	170	3.72	561	0.15	1.91	0.43	1.18	20	380	73	3750	195
FU9736	130	136	94	5.02	468	0.22	1.51	0.67	0.97	23	262	90	4860	203
FU9737	136	142	50	4.64	486	0.18	1.89	0.62	1.1	22	330	74	4270	193
FU9738	142	148	68	5.05	496	0.21	1.65	0.58	1.22	24	244	81	3410	204
FU9739	148	154	98	5.6	494	0.28	1.61	0.65	0.96	24	353	100	4490	205
FU9740	154	160	93	5.19	488	0.31	1.68	0.62	1.1	27	381	111	4670	220
FU9741	160	166	133	5.87	510	0.31	1.65	0.63	1.05	25	338	118	4710	228

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9742	166	172	110	5.41	457	0.33	1.56	0.54	1.08	22	356	117	4180	206
FU9743	172	178	50	6.17	480	0.35	1.51	0.73	1.04	21	303	120	5800	217
FU9744	178	180	69	5.48	492	0.2	1.54	0.56	1.11	18	234	85	3960	204
FU9746	6	8	31	4.65	365	0.34	1.2	0.65	1.82	24	213	87	2710	92
FU9747	8	10	105	3.76	509	3.04	1.15	0.58	1.5	22	157	103	2510	94
FU9748	10	12	85	5.86	591	1.92	1.25	0.25	0.84	11	100	64	4840	148
FU9749	12	18	88	13.77	1990	1	2.04	0.69	0.23	9	79	54	5830	262
FU9750	18	24	61	6.18	976	0.07	2.98	0.21	0.19	11	99	21	5090	282
FU9751	24	30	72	6.31	1080	0.05	3.15	0.27	0.19	23	298	44	4680	346
FU9752	30	36	64	6.3	802	0.21	2.01	0.29	0.17	20	180	26	4060	295
FU9753	36	42	58	7.06	785	0.05	2.4	0.27	0.17	17	318	32	4550	224
FU9754	42	48	52	6.34	828	0.03	2.05	0.27	0.17	14	282	25	4280	270
FU9755	48	54	50	6.4	924	0.02	1.96	0.29	0.18	16	330	25	4340	250
FU9756	54	60	47	6.47	938	0.03	2.25	0.31	0.18	20	475	49	4260	262
FU9757	60	66	72	6.9	916	0.04	1.94	0.36	0.2	32	523	74	4580	264
FU9758	66	72	90	6.19	928	0.17	2.1	0.68	0.17	33	325	33	4120	387
FU9759	72	78	69	6.22	983	0.07	1.69	0.8	0.37	40	358	24	4300	340
FU9761	78	84	65	6.52	923	1.57	3.88	0.84	1.59	34	763	234	3570	290
FU9762	84	90	58	6.25	969	0.65	3.69	0.99	1.38	33	866	124	4030	316
FU9763	90	96	53	6.83	862	1.87	2.1	1.06	1.22	31	764	225	3740	330
FU9764	96	102	57	6.13	824	1.02	1.81	1	1.22	32	706	140	3820	332
FU9765	102	108	82	6.2	798	1.31	1.54	1.02	0.95	33	684	146	3910	252
FU9766	108	114	107	6.81	910	1.54	1.6	1.11	1.34	34	760	204	4160	273
FU9767	114	120	106	7.58	925	2.05	1.71	1.15	1.44	35	788	219	4220	314
FU9768	120	126	60	6.31	782	1.74	1.73	1.12	1.23	31	703	203	3930	260
FU9769	126	132	74	6.3	754	1.99	1.89	1.04	1.21	31	659	203	3690	330
FU9771	132	138	99	6.75	865	1.9	1.89	1.13	1.38	36	800	204	4350	388
FU9772	138	144	75	6.38	758	1.15	1.98	1.04	1.49	29	704	146	3970	267
FU9773	144	150	60	6.41	785	0.97	1.88	1.05	1.22	29	656	128	3890	343
FU9774	150	156	57	6.01	838	0.72	1.74	1.02	1.15	32	643	99	3800	305
FU9775	156	162	64	6.7	1010	1.42	2.16	1.04	1.83	31	745	229	3830	364
FU9776	162	168	64	6.39	882	1.11	2.2	1.08	1.5	34	692	162	4100	311
FU9777	168	174	92	5.63	799	0.6	1.66	1.16	1.61	34	719	87	4400	322
FU9778	174	180	118	6.18	824	0.4	3.08	1.01	0.82	29	631	53	3740	233
FU9779	180	186	102	6.11	858	0.95	2.4	0.95	1.19	30	635	134	3560	193

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9780	186	192	64	6.23	663	1.43	2.55	0.96	1.28	28	617	165	3460	221
FU9781	192	196	77	5.72	756	0.81	2.4	0.93	0.98	27	595	105	3490	231
FU9782	0	2	70	3.74	516	4.55	1.35	0.52	1.77	14	284	156	2110	63
FU9783	2	8	63	4.97	1040	3.67	2.84	0.96	0.92	33	787	239	3410	224
FU9784	8	14	74	6.16	1070	1.44	2.79	1.09	1.07	34	939	203	3790	270
FU9785	14	20	75	7.69	1010	2.34	3.03	1.18	1.09	33	884	243	3920	271
FU9786	20	26	64	3.17	838	0.95	2.95	0.84	1.01	28	796	147	3800	228
FU9787	26	32	78	6.46	1010	0.73	2.76	1.06	0.77	32	863	119	3880	252
FU9788	32	38	88	6.33	860	1.24	3.11	1.03	1.06	27	755	156	3440	223
FU9789	38	44	78	6.51	818	1.42	3.35	1.14	1.02	32	809	166	3810	240
FU9790	44	50	89	6.84	870	1.75	3.29	1.03	1.33	26	766	214	3590	225
FU9791	50	56	87	6.63	810	1.81	3.08	1.02	1.35	28	805	202	3680	211
FU9792	56	62	73	6.39	921	0.66	3	1.22	0.57	34	791	96	3960	248
FU9793	62	68	75	6.2	905	0.69	3.46	1.09	0.81	33	878	110	3690	254
FU9794	68	74	119	8.24	899	1.94	2.8	1.29	1.23	34	897	198	3950	228
FU9796	74	80	101	5.02	841	1.52	2.46	1.13	1.07	34	885	169	3970	226
FU9797	80	86	88	6.86	872	1.9	3.18	1.15	1.29	32	859	192	3810	235
FU9798	86	92	77	5.84	876	2.8	3.04	0.96	1.46	29	745	265	3650	232
FU9799	92	98	90	6.56	915	2.58	3.5	1	1.13	31	768	220	3720	250
FU9800	98	104	146	6.37	905	2.52	2.83	1.08	1.38	31	772	235	3570	252
FU9801	104	110	80	6.52	1020	1.03	3.48	1.12	0.88	33	838	145	3980	280
FU9802	110	116	81	6.27	960	1.03	3.33	1.13	1.17	30	780	135	3760	250
FU9803	116	122	97	7.28	1040	2.53	3.55	1.14	1.22	33	849	230	4140	267
FU9804	122	128	82	6.45	907	3.89	2.9	0.92	1.96	33	860	615	4210	257
FU9805	128	134	86	6.41	922	2.22	2.89	1.01	1.29	29	747	232	3610	234
FU9806	134	140	103	4.15	971	4.22	3.19	0.8	1.27	33	821	285	3720	258
FU9807	140	146	90	4.94	981	2.75	3.45	0.99	1.43	32	870	236	4040	260
FU9808	146	150	94	4.82	1010	3.18	3.31	0.86	1.26	30	842	243	3740	249
FU9809	4	6	88	3.97	449	1.18	1.36	0.68	1.43	17	237	111	2860	87
FU9810	6	8	38	4.83	941	0.27	1.76	0.36	2.21	13	250	90	1920	96
FU9811	8	10	126	4.55	482	0.23	1.93	0.24	2.04	10	317	72	1140	102
FU9812	10	16	83	12.08	1270	0.88	3.24	0.96	0.6	20	569	408	3390	215
FU9813	16	22	64	6.96	1300	0.09	3.45	0.84	0.57	28	596	277	3920	272
FU9814	22	28	50	5.8	1620	0.12	3.31	0.84	0.66	57	560	211	3840	258
FU9815	28	34	58	7.92	1530	1.16	3.44	1.1	1.21	86	987	350	3880	265

Sample	From	To	Cr	Al	Ba	Ca	K	Mg	Na	Ni	P	Sr	Ti	Rb
			ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm
			5	0.01	10	0.01	0.01	0.01	0.01	5	10	10	10	10
			IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	IC587	AA587
FU9816	34	40	62	7.04	1560	1.43	3.36	1.2	1.05	50	1060	402	3960	249
FU9817	40	46	56	1.71	1110	0.84	2.56	0.69	0.93	31	933	331	3230	207
FU9818	46	52	72	1.45	1210	0.25	2.83	0.6	0.61	32	836	164	3560	256
FU9819	52	58	64	1.78	1320	1.01	2.55	0.75	1.02	28	854	429	3430	222
FU9822	58	64	65	3.77	1490	1.23	2.34	1.01	0.95	37	897	433	3520	267
FU9823	64	70	53	2.33	1200	1.01	1.78	0.8	0.96	37	836	300	3400	226
FU9824	70	76	58	2.86	1360	1.12	2.03	0.84	0.89	35	806	279	3360	251
FU9825	76	82	67	2.58	1360	1.53	3.08	0.87	0.89	34	858	345	3390	204
FU9826	82	88	84	3.56	1420	1.75	1.56	0.94	1.05	34	863	395	3370	223
FU9827	88	94	98	8.31	1560	2.32	1.9	1.2	1.12	35	937	475	3550	229
FU9828	94	100	89	8.11	1610	2.39	2.38	1.23	1.14	37	920	486	3610	268
FU9829	100	106	71	9.86	1680	2.67	2.21	1.34	1.2	37	1010	549	3930	230
FU9830	106	112	80	7	1540	1.93	2.04	0.94	1.04	35	900	427	3640	264
FU9831	112	118	75	6.5	1480	1.86	2	0.99	1.06	36	887	452	3560	270
FU9832	118	124	79	8.09	1600	2.38	2.54	1.33	1.45	36	923	757	3680	213
FU9833	124	130	91	9.16	1670	1.03	2.65	1.39	0.64	37	888	537	3620	238
FU9834	130	136	75	9.15	1670	0.98	2.41	1.42	0.72	38	860	558	3770	281
FU9835	136	142	67	8.86	1590	1.89	2.28	1.47	1.24	37	968	628	3670	239
FU9836	142	150	83	8.21	1440	2.48	2.34	1.22	1.1	35	970	493	3510	245

Hole	From	To	Gamma	Magsus
Unit			TCS	X 10^{-5} SI
DWR00001	0	2	40	150
DWR00001	2	4	40	95
DWR00001	4	6	40	500
DWR00001	6	8	40	95
DWR00001	8	10	40	70
DWR00001	10	12	40	70
DWR00001	12	14	40	300
DWR00001	14	16	40	300
DWR00001	16	18	40	200
DWR00001	18	20	40	100
DWR00001	20	22	40	50
DWR00001	22	24	40	95
DWR00001	24	26	40	110
DWR00001	26	28	40	200
DWR00001	28	30	40	55
DWR00001	30	32	40	50
DWR00001	32	34	40	95
DWR00001	34	36	40	150
DWR00001	36	38	40	150
DWR00001	38	40	40	55
DWR00001	40	42	40	75
DWR00001	42	44	40	150
DWR00001	44	46	40	95
DWR00001	46	48	40	25
DWR00001	48	50	40	30
DWR00001	50	52	40	25
DWR00001	52	54	40	10
DWR00001	54	56	40	20
DWR00001	56	58	40	45
DWR00001	58	60	40	200
DWR00001	60	62	40	250
DWR00001	62	64	40	300
DWR00001	64	66	40	300
DWR00001	66	68	40	300
DWR00001	68	70	40	250
DWR00001	70	72	40	250
DWR00001	72	74	40	150
DWR00001	74	76	40	150
DWR00001	76	78	40	120
DWR00001	78	80	40	450
DWR00001	80	82	40	320
DWR00001	82	84	40	450
DWR00001	84	86	40	200
DWR00001	86	88	40	170
DWR00001	88	90	40	550
DWR00001	90	92	40	500
DWR00001	92	94	40	750
DWR00001	94	96	40	850
DWR00001	96	98	40	600
DWR00001	98	100	45	250
DWR00001	100	102	40	250
DWR00001	102	104	40	1000
DWR00001	104	106	40	750
DWR00001	106	108	40	700
DWR00001	108	110	40	750
DWR00001	110	112	40	750

Hole	From	To	Gamma	Magsus
DWR00001	112	114	40	750
DWR00001	114	116	40	850
DWR00001	116	118	40	1500
DWR00001	118	120	40	12000
DWR00001	120	122	40	15000
DWR00001	122	124	40	15000
DWR00001	124	126	40	10000
DWR00001	126	128	40	12000
DWR00001	128	130	40	12000
DWR00001	130	132	40	11000
DWR00001	132	134	40	11000
DWR00001	134	136	40	11000
DWR00001	136	138	40	10000
DWR00001	138	140	40	12000
DWR00001	140	142	40	15000
DWR00001	142	144	40	14000
DWR00001	144	146	40	10000
DWR00001	146	148	40	10000
DWR00001	148	150	40	10000
DWR00001	150	152	40	8000
DWR00001	152	154	40	11000
DWR00001	154	156	40	7500
DWR00001	156	158	40	10000
DWR00001	158	160	40	10000
DWR00001	160	162	40	4000
DWR00001	162	164	40	10000
DWR00001	164	166	40	11000
DWR00001	166	168	40	9500
DWR00001	168	170	40	12000
DWR00001	170	172	40	12000
DWR00001	172	174	40	11000
DWR00001	174	176	40	15000
DWR00001	176	178	40	9500
DWR00001	178	180	40	13000
DWR00001	180	182	40	11000
DWR00001	182	184	40	10000
DWR00001	184	186	40	12000
DWR00001	186	188	40	11000
DWR00001	188	190	40	10000
DWR00001	190	192	35	10000
DWR00001	192	194	35	10000
DWR00001	194	195	40	8000
DWR00002	0	2	40	90
DWR00002	2	4	40	100
DWR00002	4	6	40	45
DWR00002	6	8	40	65
DWR00002	8	10	40	250
DWR00002	10	12	40	650
DWR00002	12	14	40	30
DWR00002	14	16	40	35
DWR00002	16	18	40	30
DWR00002	18	20	40	30
DWR00002	20	22	40	20
DWR00002	22	24	40	35
DWR00002	24	26	40	25
DWR00002	26	28	40	25
DWR00002	28	30	40	35

Hole	From	To	Gamma	Magsus
DWR00002	30	32	40	40
DWR00002	32	34	40	10
DWR00002	34	36	40	15
DWR00002	36	38	40	25
DWR00002	38	40	40	30
DWR00002	40	42	40	25
DWR00002	42	44	40	30
DWR00002	44	46	40	40
DWR00002	46	48	40	50
DWR00002	48	50	40	90
DWR00002	50	52	40	95
DWR00002	52	54	40	150
DWR00002	54	56	40	100
DWR00002	56	58	40	150
DWR00002	58	60	40	250
DWR00002	60	62	40	200
DWR00002	62	64	40	400
DWR00002	64	66	40	300
DWR00002	66	68	40	550
DWR00002	68	70	40	400
DWR00002	70	72	40	400
DWR00002	72	74	40	250
DWR00002	74	76	40	300
DWR00002	76	78	40	100
DWR00002	78	80	40	250
DWR00002	80	82	40	120
DWR00002	82	84	40	220
DWR00002	84	86	40	800
DWR00002	86	88	40	250
DWR00002	88	90	40	250
DWR00002	90	92	40	350
DWR00002	92	94	40	450
DWR00002	94	96	40	1000
DWR00002	96	98	40	400
DWR00002	98	100	40	1500
DWR00002	100	102	40	5000
DWR00002	102	104	40	1000
DWR00002	104	106	40	1700
DWR00002	106	108	40	1500
DWR00002	108	110	40	15000
DWR00002	110	112	40	13000
DWR00002	112	114	40	11000
DWR00002	114	116	40	15000
DWR00002	116	118	40	10000
DWR00002	118	120	40	6000
DWR00002	120	122	40	500
DWR00002	122	124	40	1000
DWR00002	124	126	40	900
DWR00002	126	128	40	550
DWR00002	128	130	40	850
DWR00002	130	132	40	1500
DWR00002	132	134	45	3000
DWR00002	134	136	50	2500
DWR00002	136	138	50	1200
DWR00002	138	140	50	11000
DWR00002	140	142	50	10000
DWR00002	142	144	50	10000

Hole	From	To	Gamma	Magsus
DWR00002	144	146	40	25000
DWR00002	146	148	60	30000
DWR00002	148	150	60	30000
DWR00002	150	152	55	50000
DWR00002	152	154	50	55000
DWR00002	154	156	40	60000
DWR00002	156	158	50	75000
DWR00002	158	160	40	25000
DWR00002	160	162	40	60000
DWR00002	162	164	40	30000
DWR00002	164	166	40	50000
DWR00002	166	168	45	30000
DWR00002	168	170	40	25000
DWR00002	170	172	45	9500
DWR00002	172	174	40	11000
DWR00002	174	176	40	20000
DWR00002	176	178	40	70000
DWR00002	178	180	40	80000
DWR00002	180	182	40	30000
DWR00002	182	184	45	4500
DWR00002	184	186	40	1500
DWR00002	186	188	45	1500
DWR00002	188	190	45	400
DWR00002	190	192	40	600
DWR00002	192	194	40	550
DWR00002	194	196	40	300
DWR00002	196	198	40	650
DWR00002	198	200	40	1100
DWR00002	200	202	45	250
DWR00002	202	204	45	200
DWR00002	204	206	45	300
DWR00002	206	208	45	250
DWR00002	208	210	45	450
DWR00002	210	212	45	600
DWR00002	212	214	45	800
DWR00002	214	216	45	1000
DWR00002	216	218	45	800
DWR00002	218	220	45	500
DWR00002	220	222	40	900
DWR00002	222	223	40	1000
DWR00003	0	2	40	150
DWR00003	2	4	40	90
DWR00003	4	6	40	150
DWR00003	6	8	40	70
DWR00003	8	10	40	10
DWR00003	10	12	40	50
DWR00003	12	14	40	50
DWR00003	14	16	40	70
DWR00003	16	18	40	30
DWR00003	18	20	40	5
DWR00003	20	22	40	5
DWR00003	22	24	40	5
DWR00003	24	26	40	10
DWR00003	26	28	40	10
DWR00003	28	30	40	5
DWR00003	30	32	40	25
DWR00003	32	34	40	30

Hole	From	To	Gamma	Magsus
DWR00003	34	36	40	35
DWR00003	36	38	40	35
DWR00003	38	40	40	40
DWR00003	40	42	40	60
DWR00003	42	44	40	50
DWR00003	44	46	40	60
DWR00003	46	48	40	60
DWR00003	48	50	40	70
DWR00003	50	52	40	70
DWR00003	52	54	40	70
DWR00003	54	56	40	90
DWR00003	56	58	40	70
DWR00003	58	60	40	60
DWR00003	60	62	40	70
DWR00003	62	64	40	75
DWR00003	64	66	40	70
DWR00003	66	68	40	450
DWR00003	68	70	40	250
DWR00003	70	72	40	200
DWR00003	72	74	40	75
DWR00003	74	76	40	80
DWR00003	76	78	40	75
DWR00003	78	80	40	85
DWR00003	80	82	40	85
DWR00003	82	84	40	100
DWR00003	84	86	40	350
DWR00003	86	88	40	450
DWR00003	88	90	40	1500
DWR00003	90	92	40	3000
DWR00003	92	94	40	7000
DWR00003	94	96	40	8500
DWR00003	96	98	40	8000
DWR00003	98	100	40	6000
DWR00003	100	102	40	8000
DWR00003	102	104	40	2000
DWR00003	104	106	40	400
DWR00003	106	108	40	600
DWR00003	108	110	40	9000
DWR00003	110	112	40	10000
DWR00003	112	114	40	10000
DWR00003	114	116	40	5000
DWR00003	116	118	40	9500
DWR00003	118	120	40	9500
DWR00003	120	122	40	7000
DWR00003	122	124	40	6000
DWR00003	124	126	40	10000
DWR00003	126	128	40	7500
DWR00003	128	130	40	8000
DWR00003	130	132	40	6500
DWR00003	132	134	40	300
DWR00003	134	136	40	250
DWR00003	136	138	40	300
DWR00003	138	140	40	700
DWR00004	0	2	40	110
DWR00004	2	4	40	70
DWR00004	4	6	40	50
DWR00004	6	8	40	50

Hole	From	To	Gamma	Magsus
DWR00004	8	10	40	65
DWR00004	10	12	40	45
DWR00004	12	14	40	40
DWR00004	14	16	40	50
DWR00004	16	18	40	40
DWR00004	18	20	40	45
DWR00004	20	22	40	400
DWR00004	22	24	40	90
DWR00004	24	26	40	110
DWR00004	26	28	40	150
DWR00004	28	30	40	220
DWR00004	30	32	40	200
DWR00004	32	34	40	400
DWR00004	34	36	40	200
DWR00004	36	38	40	450
DWR00004	38	40	40	500
DWR00004	40	42	40	450
DWR00004	42	44	40	700
DWR00004	44	46	40	1500
DWR00004	46	48	40	1200
DWR00004	48	50	40	2000
DWR00004	50	52	40	1500
DWR00004	52	54	40	2000
DWR00004	54	56	40	1500
DWR00004	56	58	40	1700
DWR00004	58	60	40	1500
DWR00004	60	62	40	2000
DWR00004	62	64	40	2000
DWR00004	64	66	40	1800
DWR00004	66	68	40	1800
DWR00004	68	70	40	2500
DWR00004	70	72	40	2000
DWR00004	72	74	40	550
DWR00004	74	76	40	1500
DWR00004	76	78	40	1500
DWR00004	78	80	40	1400
DWR00004	80	82	40	2500
DWR00004	82	84	40	4500
DWR00004	84	86	40	11000
DWR00004	86	88	40	10000
DWR00004	88	90	40	9000
DWR00004	90	92	40	8000
DWR00004	92	94	40	11000
DWR00004	94	96	40	11000
DWR00004	96	98	40	11000
DWR00004	98	100	40	10000
DWR00004	100	102	40	12000
DWR00004	102	104	40	8500
DWR00004	104	106	40	11000
DWR00004	106	108	40	10000
DWR00004	108	110	40	10000
DWR00004	110	112	40	10000
DWR00004	112	114	40	10000
DWR00004	114	116	40	10000
DWR00004	116	118	40	10000
DWR00004	118	120	40	10000
DWR00004	120	122	40	10000

Hole	From	To	Gamma	Magsus
DWR00004	122	124	40	12000
DWR00004	124	126	40	11000
DWR00004	126	128	40	12000
DWR00004	128	130	40	9500
DWR00004	130	132	40	11000
DWR00004	132	134	40	10000
DWR00004	134	136	40	9500
DWR00004	136	138	40	15000
DWR00004	138	140	40	9500
DWR00004	140	142	40	9500
DWR00004	142	144	40	9500
DWR00004	144	146	40	11000
DWR00004	146	148	40	10000
DWR00004	148	150	40	12000
DWR00004	150	152	40	11000
DWR00004	152	154	40	8500
DWR00004	154	156	40	12000
DWR00004	156	158	40	10000
DWR00004	158	160	40	12000
DWR00004	160	162	40	10000
DWR00004	162	164	40	10000
DWR00004	164	166	40	10000
DWR00004	166	168	40	10000
DWR00004	168	170	40	10000
DWR00004	170	172	40	12000
DWR00004	172	174	40	10000
DWR00005	0	2	40	100
DWR00005	2	4	40	120
DWR00005	4	6	40	125
DWR00005	6	8	40	75
DWR00005	8	10	40	65
DWR00005	10	12	40	65
DWR00005	12	14	40	65
DWR00005	14	16	40	15
DWR00005	16	18	40	5
DWR00005	18	20	40	10
DWR00005	20	22	40	10
DWR00005	22	24	40	5
DWR00005	24	26	40	5
DWR00005	26	28	40	15
DWR00005	28	30	40	15
DWR00005	30	32	40	35
DWR00005	32	34	40	5
DWR00005	34	36	40	5
DWR00005	36	38	40	5
DWR00005	38	40	40	5
DWR00005	40	42	40	5
DWR00005	42	44	40	5
DWR00005	44	46	40	10
DWR00005	46	48	40	5
DWR00005	48	50	40	10
DWR00005	50	52	40	10
DWR00005	52	54	40	10
DWR00005	54	56	40	10
DWR00005	56	58	40	10
DWR00005	58	60	40	10
DWR00005	60	62	40	10

Hole	From	To	Gamma	Magsus
DWR00005	62	64	40	10
DWR00005	64	66	40	10
DWR00005	66	68	40	10
DWR00005	68	70	40	10
DWR00005	70	72	40	15
DWR00005	72	74	40	15
DWR00005	74	76	40	15
DWR00005	76	78	40	15
DWR00005	78	80	40	15
DWR00005	80	82	40	15
DWR00005	82	84	40	15
DWR00005	84	86	40	15
DWR00005	86	88	40	25
DWR00005	88	90	40	20
DWR00005	90	92	40	25
DWR00005	92	94	40	45
DWR00005	94	96	40	45
DWR00005	96	98	40	50
DWR00005	98	100	40	50
DWR00005	100	102	40	65
DWR00005	102	104	40	65
DWR00005	104	106	40	50
DWR00005	106	108	40	60
DWR00005	108	110	40	80
DWR00005	110	112	40	80
DWR00005	112	114	40	90
DWR00005	114	116	40	80
DWR00005	116	118	40	90
DWR00005	118	120	40	90
DWR00005	120	122	40	90
DWR00005	122	124	40	100
DWR00005	124	126	40	200
DWR00005	126	128	40	125
DWR00005	128	130	40	250
DWR00005	130	132	40	200
DWR00005	132	134	40	250
DWR00005	134	136	40	150
DWR00005	136	138	40	150
DWR00005	138	140	40	150
DWR00005	140	142	40	150
DWR00005	142	144	40	150
DWR00005	144	146	40	150
DWR00005	146	148	40	100
DWR00005	148	150	40	150
DWR00005	150	152	40	40
DWR00005	152	154	40	40
DWR00005	154	156	40	100
DWR00005	156	158	40	100
DWR00005	158	160	40	125
DWR00005	160	162	40	125
DWR00005	162	164	40	125
DWR00005	164	166	40	125
DWR00005	166	168	40	100
DWR00005	168	170	40	125
DWR00005	170	172	40	125
DWR00005	172	174	40	150
DWR00005	174	176	40	200

Hole	From	To	Gamma	Magsus
DWR00005	176	178	40	150
DWR00005	178	180	40	200
DWR00006	0	2	40	150
DWR00006	2	4	40	150
DWR00006	4	6	40	100
DWR00006	6	8	40	175
DWR00006	8	10	40	75
DWR00006	10	12	40	40
DWR00006	12	14	40	35
DWR00006	14	16	40	45
DWR00006	16	18	40	40
DWR00006	18	20	40	5
DWR00006	20	22	40	5
DWR00006	22	24	40	5
DWR00006	24	26	40	10
DWR00006	26	28	40	5
DWR00006	28	30	40	10
DWR00006	30	32	40	10
DWR00006	32	34	40	10
DWR00006	34	36	40	10
DWR00006	36	38	40	10
DWR00006	38	40	40	10
DWR00006	40	42	40	10
DWR00006	42	44	40	10
DWR00006	44	46	40	10
DWR00006	46	48	40	10
DWR00006	48	50	40	10
DWR00006	50	52	40	15
DWR00006	52	54	40	15
DWR00006	54	56	45	10
DWR00006	56	58	50	10
DWR00006	58	60	50	10
DWR00006	60	62	50	10
DWR00006	62	64	45	10
DWR00006	64	66	50	20
DWR00006	66	68	50	20
DWR00006	68	70	50	20
DWR00006	70	72	50	20
DWR00006	72	74	50	35
DWR00006	74	76	50	30
DWR00006	76	78	50	40
DWR00006	78	80	40	45
DWR00006	80	82	45	45
DWR00006	82	84	45	40
DWR00006	84	86	45	40
DWR00006	86	88	45	40
DWR00006	88	90	45	40
DWR00006	90	92	45	45
DWR00006	92	94	45	40
DWR00006	94	96	45	30
DWR00006	96	98	45	40
DWR00006	98	100	45	40
DWR00006	100	102	45	50
DWR00006	102	104	45	45
DWR00006	104	106	45	75
DWR00006	106	108	45	65
DWR00006	108	110	45	55

Hole	From	To	Gamma	Magsus
DWR00006	110	112	45	50
DWR00006	112	114	45	40
DWR00006	114	116	45	80
DWR00006	116	118	45	85
DWR00006	118	120	45	90
DWR00006	120	122	45	100
DWR00006	122	124	45	100
DWR00006	124	126	45	100
DWR00006	126	128	45	40
DWR00006	128	130	50	40
DWR00006	130	132	45	45
DWR00006	132	134	45	45
DWR00006	134	136	45	40
DWR00006	136	138	45	35
DWR00006	138	140	45	40
DWR00006	140	142	45	35
DWR00006	142	144	45	35
DWR00006	144	146	45	40
DWR00006	146	148	45	40
DWR00006	148	150	45	40
DWR00006	150	152	45	40
DWR00006	152	154	45	30
DWR00006	154	156	45	30
DWR00006	156	158	45	35
DWR00006	158	160	45	35
DWR00006	160	162	45	40
DWR00006	162	164	45	30
DWR00006	164	166	45	35
DWR00006	166	168	45	35
DWR00006	168	170	45	30
DWR00006	170	172	45	40
DWR00006	172	174	45	35
DWR00006	174	176	45	45
DWR00006	176	178	45	45
DWR00006	178	180	45	45
DWR00007	0	2	40	70
DWR00007	2	4	40	80
DWR00007	4	6	40	80
DWR00007	6	8	40	70
DWR00007	8	10	40	70
DWR00007	10	12	40	50
DWR00007	12	14	40	20
DWR00007	14	16	40	5
DWR00007	16	18	40	5
DWR00007	18	20	40	5
DWR00007	20	22	40	5
DWR00007	22	24	40	5
DWR00007	24	26	40	5
DWR00007	26	28	40	5
DWR00007	28	30	40	5
DWR00007	30	32	40	10
DWR00007	32	34	40	10
DWR00007	34	36	40	10
DWR00007	36	38	40	5
DWR00007	38	40	40	5
DWR00007	40	42	40	10
DWR00007	42	44	40	5

Hole	From	To	Gamma	Magsus
DWR00007	44	46	40	5
DWR00007	46	48	40	5
DWR00007	48	50	40	5
DWR00007	50	52	50	5
DWR00007	52	54	50	5
DWR00007	54	56	50	5
DWR00007	56	58	50	5
DWR00007	58	60	50	5
DWR00007	60	62	50	10
DWR00007	62	64	50	10
DWR00007	64	66	50	10
DWR00007	66	68	40	20
DWR00007	68	70	40	30
DWR00007	70	72	50	45
DWR00007	72	74	50	35
DWR00007	74	76	50	50
DWR00007	76	78	50	40
DWR00007	78	80	40	200
DWR00007	80	82	50	80
DWR00007	82	84	50	85
DWR00007	84	86	50	70
DWR00007	86	88	50	60
DWR00007	88	90	50	50
DWR00007	90	92	50	70
DWR00007	92	94	50	70
DWR00007	94	96	50	100
DWR00007	96	98	50	90
DWR00007	98	100	50	1500
DWR00007	100	102	50	2000
DWR00007	102	104	50	1500
DWR00007	104	106	50	1500
DWR00007	106	108	50	1500
DWR00007	108	110	50	1500
DWR00007	110	112	50	900
DWR00007	112	114	50	500
DWR00007	114	116	50	500
DWR00007	116	118	50	800
DWR00007	118	120	50	1500
DWR00007	120	122	50	1500
DWR00007	122	124	50	1500
DWR00007	124	126	50	500
DWR00007	126	128	50	600
DWR00007	128	130	50	1500
DWR00007	130	132	50	900
DWR00007	132	134	50	1500
DWR00007	134	136	50	1500
DWR00007	136	138	50	1500
DWR00007	138	140	50	1500
DWR00007	140	142	50	1000
DWR00007	142	144	50	1000
DWR00007	144	146	50	2000
DWR00007	146	148	50	2000
DWR00007	148	150	50	3000
DWR00007	150	152	40	1500
DWR00007	152	154	40	1500
DWR00007	154	156	40	1500
DWR00007	156	158	50	2000

Hole	From	To	Gamma	Magsus
DWR00007	158	160	50	1500
DWR00007	160	162	50	1000
DWR00007	162	164	50	1500
DWR00007	164	166	50	1500
DWR00007	166	168	50	1500
DWR00007	168	170	50	1500
DWR00007	170	172	50	2000
DWR00007	172	174	50	2000
DWR00007	174	176	50	2000
DWR00007	176	178	50	2500
DWR00007	178	180	50	1000
DWR00007	180	182	50	1250
DWR00007	182	184	50	2000
DWR00007	184	186	50	2000
DWR00007	186	188	40	2000
DWR00007	188	190	40	2000
DWR00007	190	192	40	2000
DWR00007	192	194	40	1500
DWR00007	194	196	40	1000
DWR00008	0	2	40	200
DWR00008	2	4	40	30
DWR00008	4	6	40	20
DWR00008	6	8	40	40
DWR00008	8	10	40	20
DWR00008	10	12	40	30
DWR00008	12	14	40	250
DWR00008	14	16	40	500
DWR00008	16	18	40	250
DWR00008	18	20	40	800
DWR00008	20	22	40	200
DWR00008	22	24	40	250
DWR00008	24	26	40	200
DWR00008	26	28	40	200
DWR00008	28	30	40	200
DWR00008	30	32	40	200
DWR00008	32	34	40	200
DWR00008	34	36	40	800
DWR00008	36	38	40	600
DWR00008	38	40	40	800
DWR00008	40	42	40	200
DWR00008	42	44	40	2000
DWR00008	44	46	40	400
DWR00008	46	48	40	400
DWR00008	48	50	40	400
DWR00008	50	52	40	300
DWR00008	52	54	40	800
DWR00008	54	56	40	2000
DWR00008	56	58	40	2000
DWR00008	58	60	40	2000
DWR00008	60	62	40	800
DWR00008	62	64	40	500
DWR00008	64	66	40	500
DWR00008	66	68	40	2000
DWR00008	68	70	40	1000
DWR00008	70	72	40	1500
DWR00008	72	74	40	1500
DWR00008	74	76	40	1500

Hole	From	To	Gamma	Magsus
DWR00008	76	78	40	1500
DWR00008	78	80	40	1500
DWR00008	80	82	40	1500
DWR00008	82	84	40	1500
DWR00008	84	86	40	1000
DWR00008	86	88	40	1000
DWR00008	88	90	50	400
DWR00008	90	92	40	900
DWR00008	92	94	40	900
DWR00008	94	96	40	900
DWR00008	96	98	40	1500
DWR00008	98	100	40	500
DWR00008	100	102	40	900
DWR00008	102	104	40	1000
DWR00008	104	106	40	1500
DWR00008	106	108	40	1000
DWR00008	108	110	40	2000
DWR00008	110	112	40	2000
DWR00008	112	114	40	2000
DWR00008	114	116	40	1250
DWR00008	116	118	40	1000
DWR00008	118	120	40	600
DWR00008	120	122	40	800
DWR00008	122	124	40	1500
DWR00008	124	126	40	1000
DWR00008	126	128	40	700
DWR00008	128	130	40	1500
DWR00008	130	132	50	1000
DWR00008	132	134	40	500
DWR00008	134	136	40	2000
DWR00008	136	138	40	1500
DWR00008	138	140	40	200
DWR00008	140	142	40	800
DWR00008	142	144	40	1500
DWR00008	144	146	40	1000
DWR00008	146	148	40	800
DWR00008	148	150	40	800
DWR00009	0	2	40	90
DWR00009	2	4	40	90
DWR00009	4	6	40	90
DWR00009	6	8	40	100
DWR00009	8	10	40	100
DWR00009	10	12	40	60
DWR00009	12	14	40	60
DWR00009	14	16	40	20
DWR00009	16	18	40	20
DWR00009	18	20	40	20
DWR00009	20	22	50	20
DWR00009	22	24	40	40
DWR00009	24	26	40	60
DWR00009	26	28	40	60
DWR00009	28	30	40	200
DWR00009	30	32	40	200
DWR00009	32	34	40	150
DWR00009	34	36	40	60
DWR00009	36	38	40	350
DWR00009	38	40	40	80

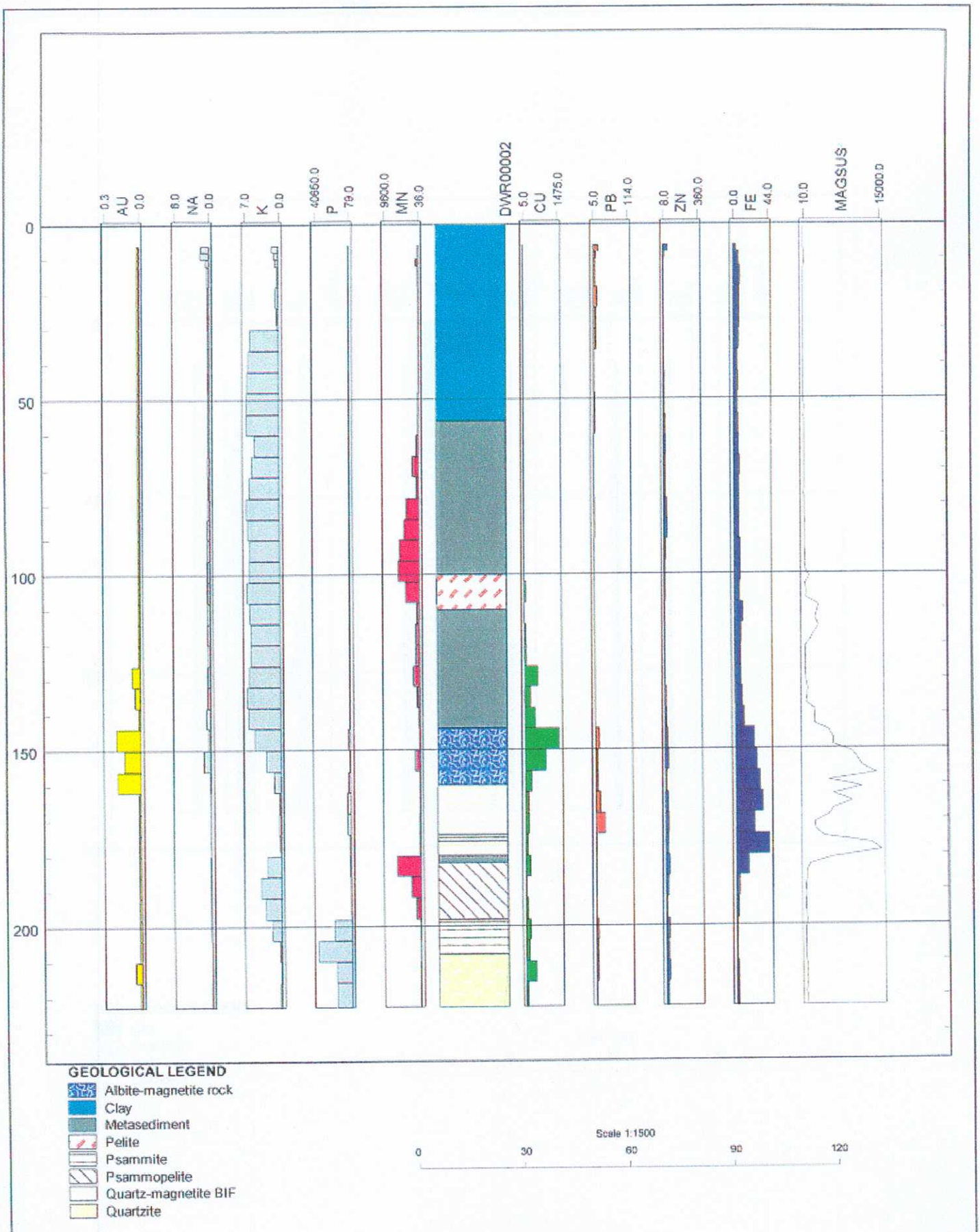
Hole	From	To	Gamma	Magsus
DWR00009	40	42	40	200
DWR00009	42	44	40	200
DWR00009	44	46	40	200
DWR00009	46	48	40	200
DWR00009	48	50	40	200
DWR00009	50	52	40	200
DWR00009	52	54	40	200
DWR00009	54	56	40	100
DWR00009	56	58	40	80
DWR00009	58	60	40	150
DWR00009	60	62	40	150
DWR00009	62	64	40	80
DWR00009	64	66	40	40
DWR00009	66	68	40	90
DWR00009	68	70	40	150
DWR00009	70	72	40	100
DWR00009	72	74	40	150
DWR00009	74	76	40	1500
DWR00009	76	78	40	1500
DWR00009	78	80	40	1000
DWR00009	80	82	40	1500
DWR00009	82	84	40	300
DWR00009	84	86	40	1500
DWR00009	86	88	40	1500
DWR00009	88	90	50	1500
DWR00009	90	92	40	1500
DWR00009	92	94	40	1500
DWR00009	94	96	40	1500
DWR00009	96	98	40	1500
DWR00009	98	100	40	1500
DWR00009	100	102	50	2000
DWR00009	102	104	50	2000
DWR00009	104	106	50	2000
DWR00009	106	108	40	2000
DWR00009	108	110	40	2000
DWR00009	110	112	40	2000
DWR00009	112	114	40	2000
DWR00009	114	116	40	2000
DWR00009	116	118	40	1750
DWR00009	118	120	40	2250
DWR00009	120	122	40	2000
DWR00009	122	124	40	2000
DWR00009	124	126	40	4000
DWR00009	126	128	40	3000
DWR00009	128	130	40	3000
DWR00009	130	132	40	3000
DWR00009	132	134	50	3000
DWR00009	134	136	40	2000
DWR00009	136	138	40	2000
DWR00009	138	140	50	900
DWR00009	140	142	40	3000
DWR00009	142	144	40	800
DWR00009	144	146	40	1000
DWR00009	146	148	40	1000
DWR00009	148	150	55	950

Hole	From	To	SG
DWR00001	120	130	2.97
DWR00001	130	140	2.97
DWR00001	140	150	2.95
DWR00001	150	160	2.87
DWR00001	160	170	2.86
DWR00001	170	180	2.88
DWR00001	180	190	2.86
DWR00001	190	195	2.84
DWR00002	100	110	2.75
DWR00002	110	120	2.78
DWR00002	120	130	2.69
DWR00002	130	140	2.82
DWR00002	140	150	3.05
DWR00002	150	160	3.13
DWR00002	160	170	3.49
DWR00002	170	180	3.8
DWR00002	180	190	2.98
DWR00002	190	200	2.73
DWR00002	200	210	2.73
DWR00002	210	220	2.71
DWR00002	220	223	2.7
DWR00003	60	70	2.67
DWR00003	70	80	2.69
DWR00003	80	90	2.74
DWR00003	90	100	2.89
DWR00003	100	110	2.85
DWR00003	110	120	2.84
DWR00003	120	130	2.86
DWR00003	130	140	2.76
DWR00004	80	90	2.99
DWR00004	90	100	2.97
DWR00004	100	110	2.99
DWR00004	110	120	2.99
DWR00004	120	130	2.98
DWR00004	130	140	3.04
DWR00004	140	150	3.03
DWR00004	150	160	3.01
DWR00004	160	174	3
DWR00005	100	110	2.12
DWR00005	110	120	2.89
DWR00005	120	130	2.92
DWR00005	130	140	2.89
DWR00005	140	150	2.91
DWR00005	150	160	2.86
DWR00005	160	170	2.86
DWR00005	170	180	2.86
DWR00006	110	120	2.86
DWR00006	120	130	2.9
DWR00006	130	140	2.89
DWR00006	140	150	2.87
DWR00006	150	160	2.88
DWR00006	160	170	2.92

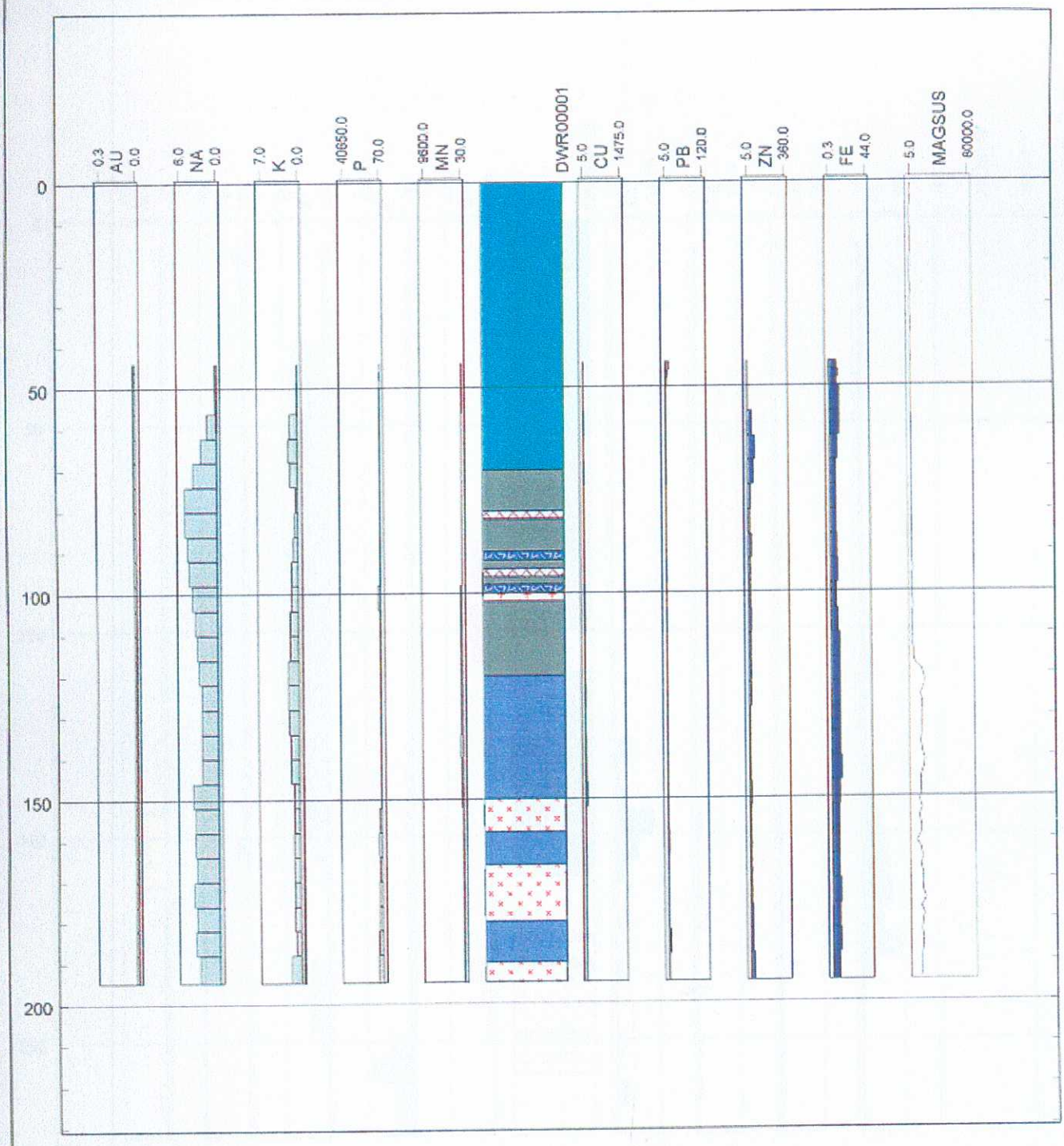
Hole	From	To	SG
DWR00006	170	180	2.88
DWR00007	90	100	2.78
DWR00007	100	110	2.79
DWR00007	110	120	2.82
DWR00007	120	130	2.82
DWR00007	130	140	2.81
DWR00007	140	150	2.81
DWR00007	150	160	2.8
DWR00007	160	170	2.79
DWR00007	170	180	2.79
DWR00007	180	190	2.79
DWR00007	190	196	2.8
DWR00008	20	30	2.77
DWR00008	30	40	2.78
DWR00008	40	50	2.78
DWR00008	50	60	2.77
DWR00008	60	70	2.81
DWR00008	70	80	2.81
DWR00008	80	90	2.82
DWR00008	90	100	2.79
DWR00008	100	110	2.8
DWR00008	110	120	2.81
DWR00008	120	130	2.81
DWR00008	130	140	2.82
DWR00008	140	150	2.81
DWR00009	60	70	2.76
DWR00009	70	80	2.79
DWR00009	80	90	2.83
DWR00009	90	100	2.82
DWR00009	100	110	2.81
DWR00009	110	120	2.81
DWR00009	120	130	2.81
DWR00009	130	140	2.8
DWR00009	140	150	2.8

APPENDIX 4

GEOLOGICAL STRIP LOGS



Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 009 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000	Deep Well Dam Drilling Program **Drill Hole DWR00002**		FIGURE
Revised :			



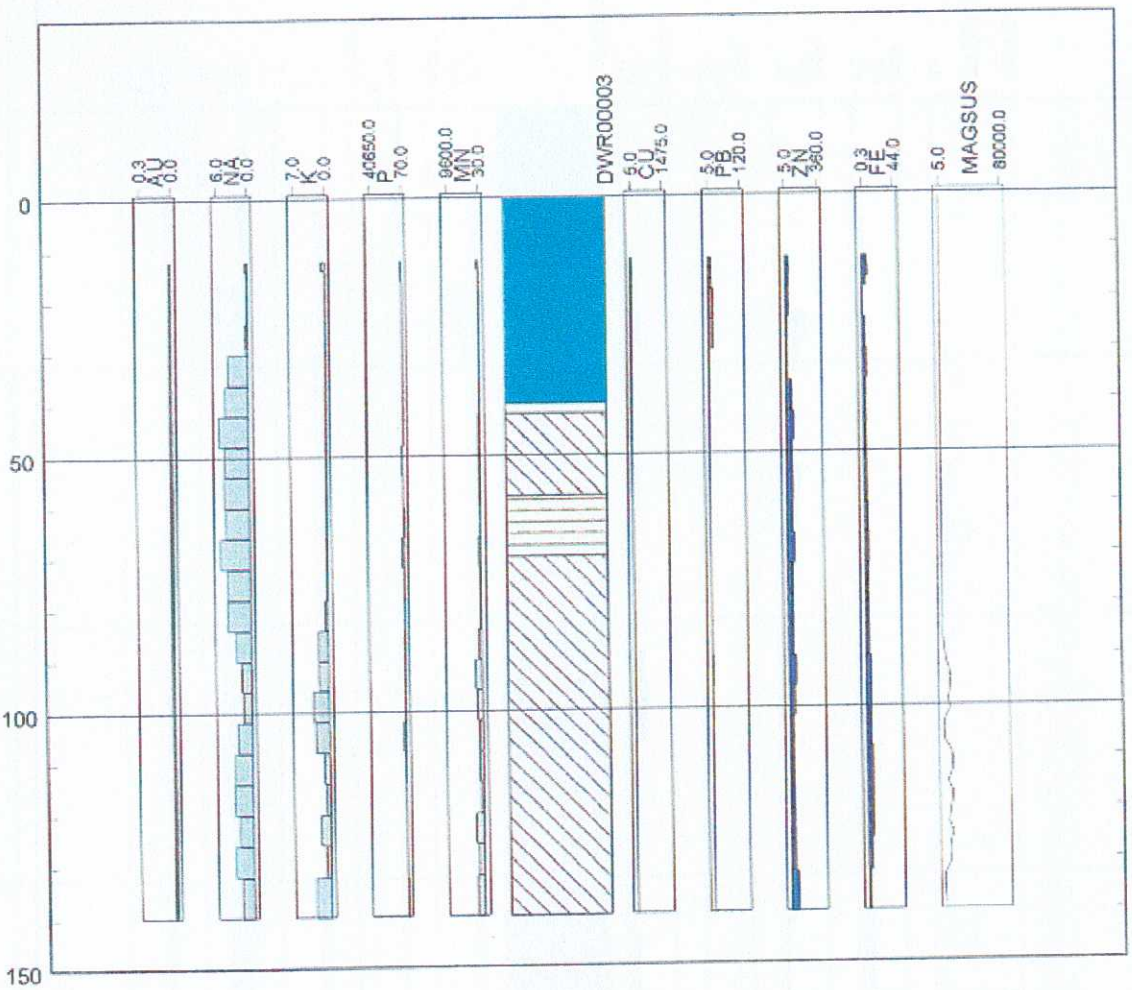
GEOLOGICAL LEGEND

- Albite-magnetite rock
- Clay
- Diorite
- Granite
- Granodiorite
- Ironstone
- Metasediment

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000	Deep Well Dam Drilling Program Drill Hole DWR00001		FIGURE
Revised :			



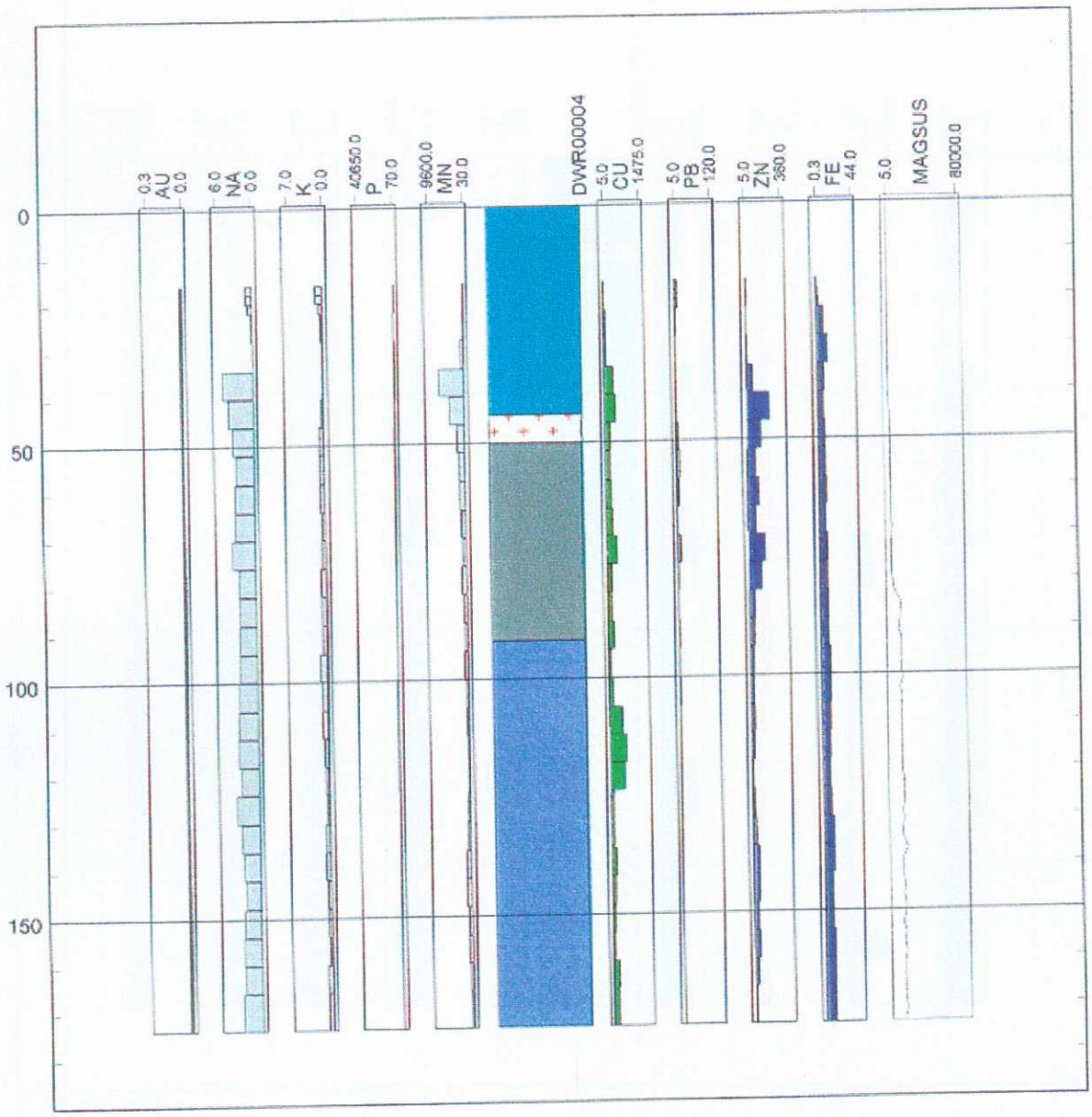
GEOLOGICAL LEGEND

- Clay
- Psammite
- Psammopelite
- Unknown

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000	Deep Well Dam Drilling Program **Drill Hole DWR00003**		FIGURE
Revised :			



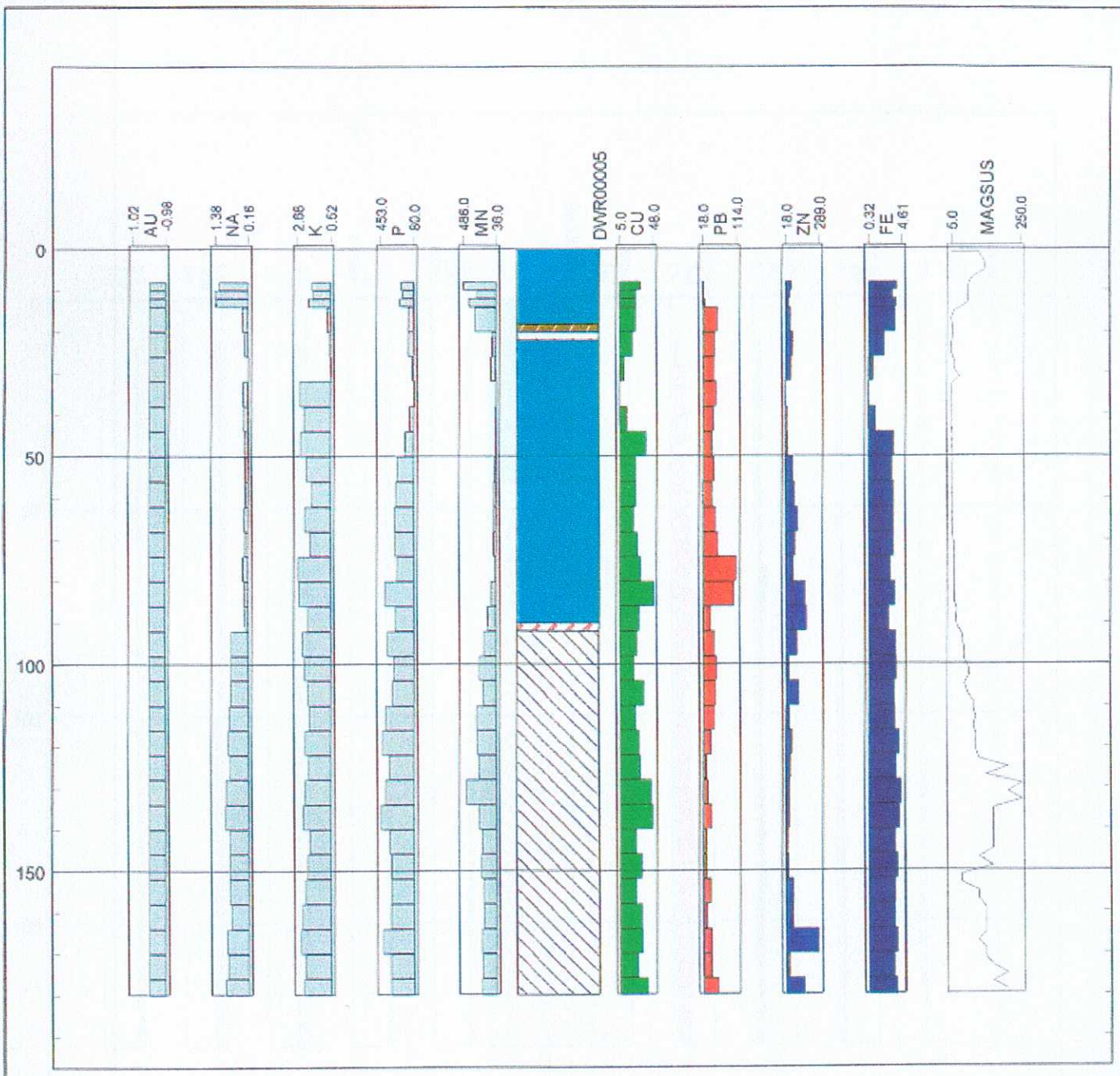
GEOLOGICAL LEGEND

- Clay
- Diorite
- Granite
- Metasediment

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 026 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000		Deep Well Dam Drilling Program	FIGURE
Revised :		**Drill Hole DWR00004**	



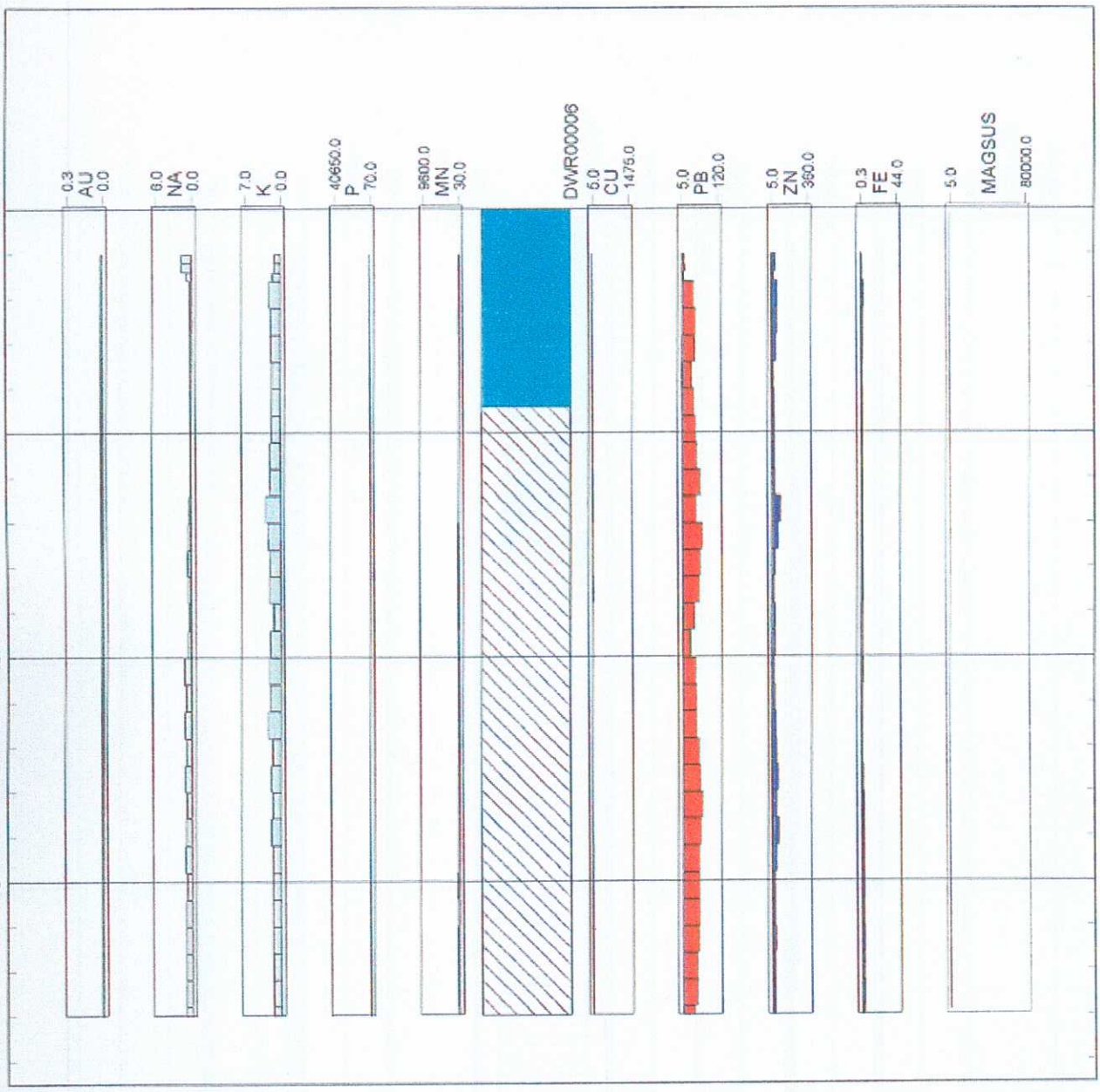
GEOLOGICAL LEGEND

- Clay
- Laterite
- Laterite pallid zone
- Pelite
- Psammopelite

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL	Deep Well Dam Drilling Program	Drg. No. : A4-
DATE: 19-07-2000	Drill Hole DWR00005	FIGURE
Revised :		



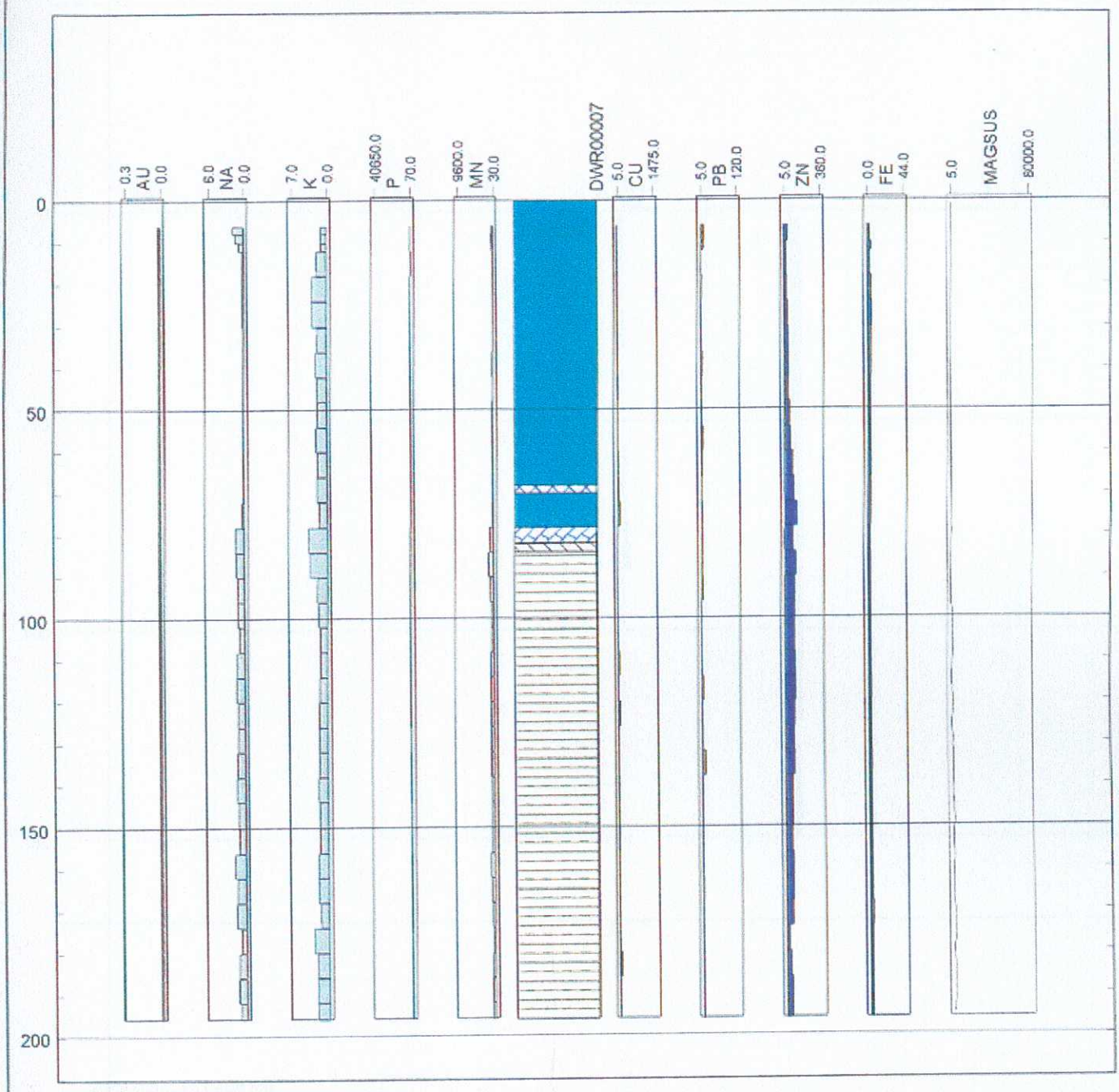
GEOLOGICAL LEGEND

- Clay
- Psammopelite

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Centre : Brisbane
Drawn : KAL	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Drg. No. : A4-
DATE: 19-07-2000	**Deep Well Dam Drilling Program**	FIGURE
Revised :	**Drill Hole DWR00006**	



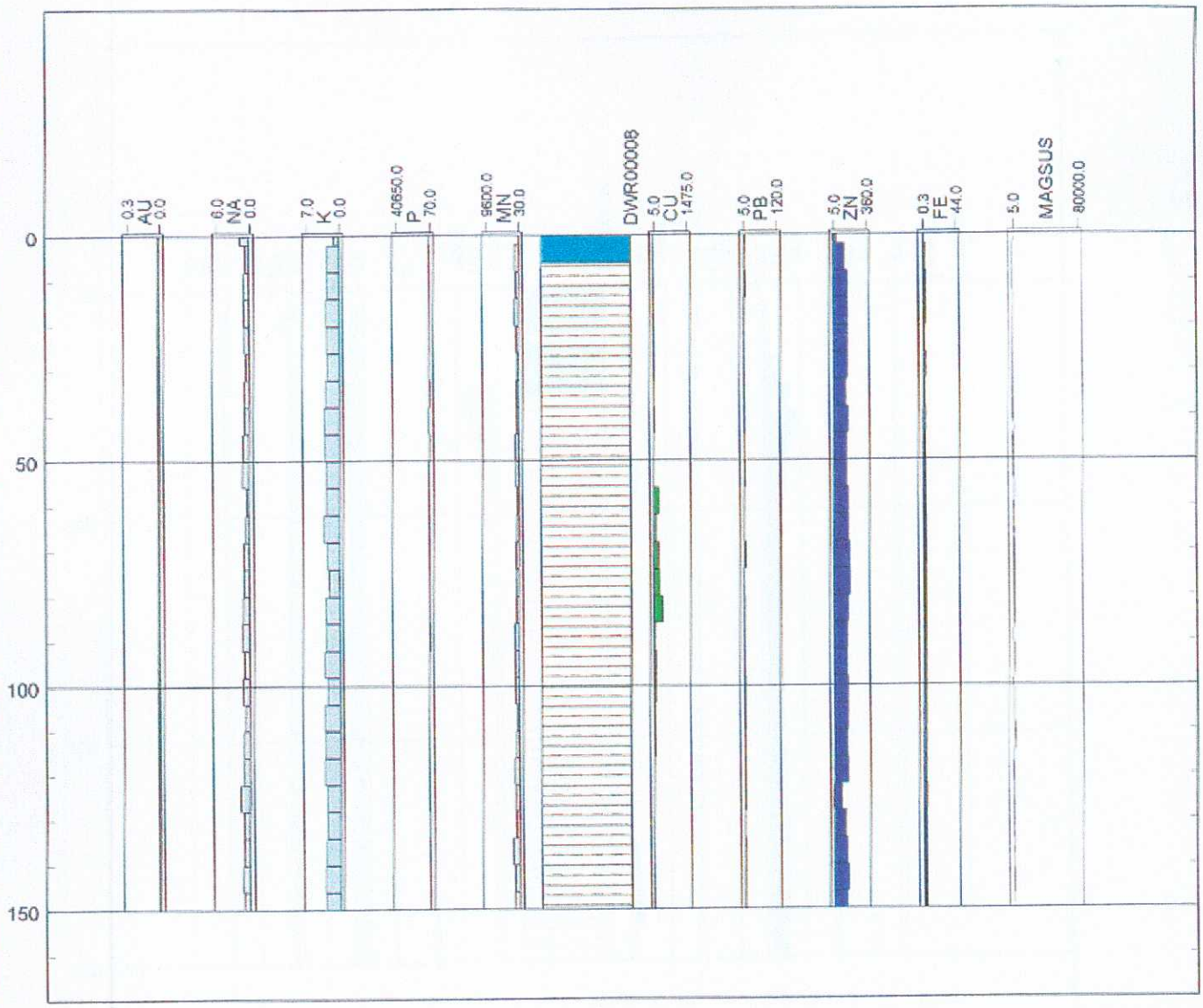
GEOLOGICAL LEGEND

- Clay
- Intrusive
- Psammite
- Psammopelite
- Quartz vein

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000	Deep Well Dam Drilling Program Drill Hole DWR00007		FIGURE
Revised :			



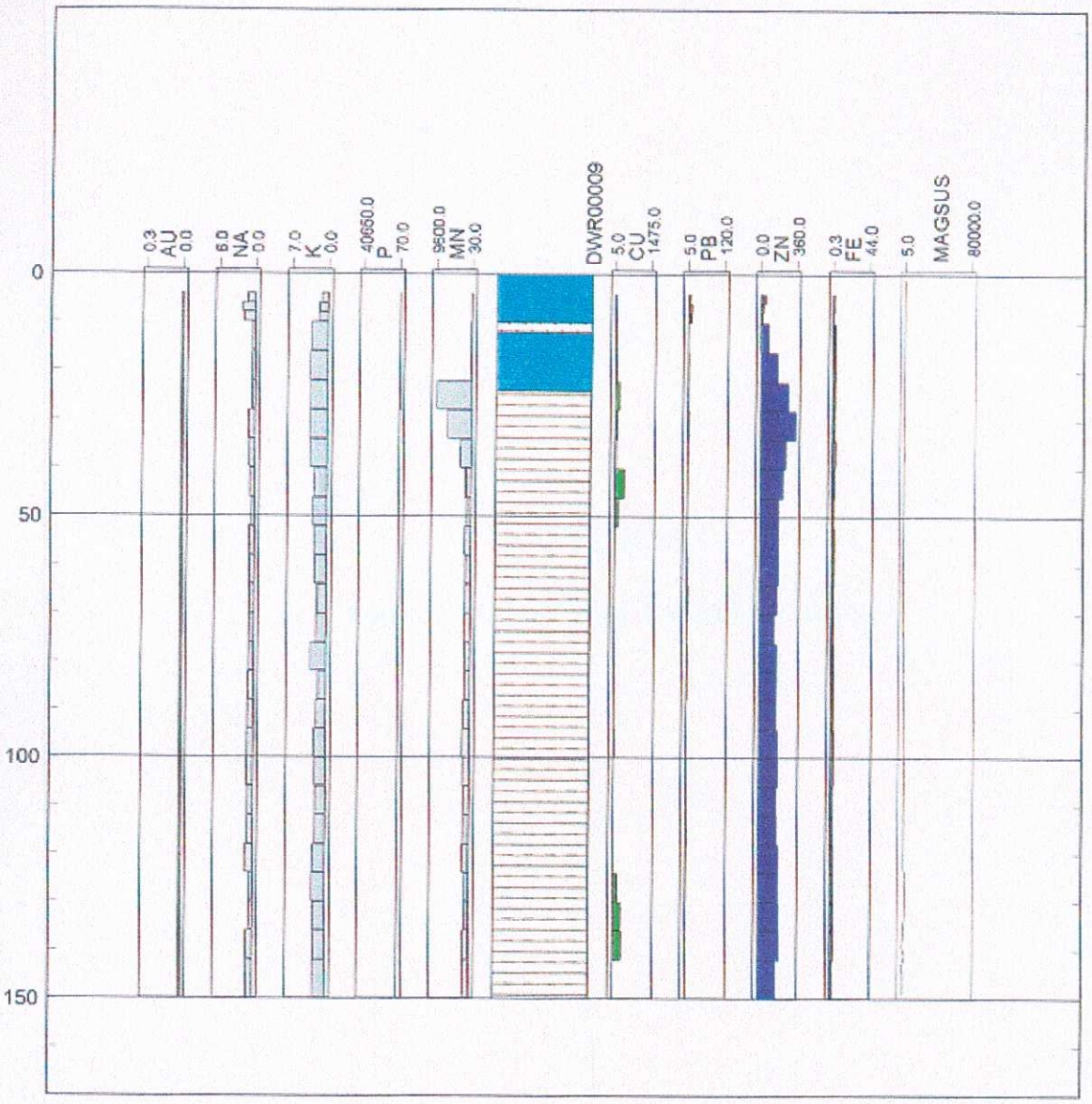
GEOLOGICAL LEGEND

- Clay
- Psammite

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000	Deep Well Dam Drilling Program **Drill Hole DWR00008**		FIGURE
Revised :			



GEOLOGICAL LEGEND

- Clay
- Psammite
- Sand

Scale 1:1500

0 30 60 90 120

Prepared : KAL	BHP	Exploration - BHP Minerals BHP Minerals Pty. Ltd., A.C.N. 008 694 782	Centre : Brisbane
Drawn : KAL			Drg. No. : A4-
DATE: 19-07-2000		Deep Well Dam Drilling Program	
Revised :		**Drill Hole DWR00009**	FIGURE

APPENDIX 5

DRILLING REPORT BY BRETT RAVA

REPORT ON

THE

DEEP WELL DAM

RC PERCUSSION

DRILL PROGRAM

(MAY 2000)

Prepared by:

Brett Rava
Euro Exploration Services Pty Ltd
A.C.N. 068 028 937
A.B.N. 17 808 607 684

Modified by BHPM (i.e. figures, tables, appendices not included)

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1.2 Drillhole Geology, Alteration, Veining, Mineralisation, Geochemistry, Geophysics, Specific Gravity (SG) & Conclusions

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1.2.4 DWR00004
1.2.5 DRILLHOLES DWR00005 & 6
1.2.6 DRILLHOLES DWR00007, 8 & 9

2 Environmental (rehabilitation etc.)

Please Note – Only the text is included in this report. Figures, Tables and Appendices are not included with this version of the report.

1 Deep Well Dam RC Percussion Drill Program

1.1 Summary

Nine RC percussion holes were drilled to test a number of coincident gravity-magnetic or stand-alone gravity and magnetic targets for Broken Hill and or Iron-Oxide Copper Gold (IOCG) type mineralisation within Broken Hill Block equivalents of the Olary Domain. Targets were initially defined by aeromagnetics and regional (250m x 500m) gravity surveys, with high priority targets detailed by ground magnetic traverses and closely spaced gravity stations.

Drilling intersected a sequence of regionally metamorphosed (lower amphibolite grade) and variably altered Palaeoproterozoic metasediments and minor petrologically described volcanics intruded by predominantly intermediate granitoids of dioritic to granodioritic composition and lesser basic (petrology) intrusives. Palaeoproterozoic basement is overlain by a relatively thin veneer of unconsolidated Quaternary and Tertiary sediments and in drillholes DWR00002 and 3 by Neoproterozoic (Adelaidean) low grade metamorphosed sedimentary rocks of the Adelaide Geosyncline.

With the exception of drillholes DWR00001 and 2 drilling failed to intersect significantly altered or mineralised sequences. Drillholes DWR00003 and 4 intersected regionally albitised 'Quartzofeldspathic Suite' metasediments and variably retrograde (sericite-chlorite+epidote-hematite) altered logged and petrologically defined intermediate to basic intrusives. Drillholes DWR00005, 6, 7, 8 and 9 intersected non to weakly altered variably graphitic (DWR00005 & 6) fine to medium-grained pelites, psammopelites and psammites of the 'Pelite Suite'.

Drillholes DWR00001 and 2 intersected pervasive and locally intense K-Fe(±Na) metasomatised quartzofeldspathic sequences and possible iron rich lithologies interpreted to be part of the upper Quartzofeldspathic Suite. Intensely altered metasediments in DWR00002 are weakly Cu-Au-Mo anomalous. Metasomatism is interpreted as stratabound/stratiform and overprints, to varying degrees earlier regional albite±magnetite alteration. Minor massive hematite±carbonate veining noted in both drillholes, but predominantly in DWR00001, may indicate (additional?) epigenetic alteration associated with late stage brittle deformation. In general potassic alteration in both drillholes occurs with only trace to minor Fe and rare Cu sulphides suggesting metasomatic fluids were of low sulphur content. A somewhat ambiguous highly variable Fe-oxide mineralogy may reflect initial high temperature Fe-K alteration (magnetite-Kfeldspar-biotite±calcsilicates) and a latter low-moderate temperature Fe metasomatic event (hematite±chlorite).

Overall drill results are disappointing. Intense K-Fe metasomatised metasediments are non to weakly mineralised only and although some follow-up maybe warranted to check for proximal mineralised breccia and or dilational zones the limited areal extent of the associated magnetic-gravity anomalies, possible low sulphide fluids and lack of mineralisation downgrade the areas.

1.2 Drillhole Geology, Alteration, Veining, Mineralisation, Geochemistry, Geophysics & Specific Gravity (SG)

Nine RC percussion drillholes, for a total of 1588m, were drilled to test either coincident gravity-magnetic or stand-alone gravity and magnetic targets for Broken Hill and or Iron-Oxide Copper Gold (IOCG) type mineralisation. Targets were initially defined by aeromagnetics and regional (250m x 500m) gravity surveys, with high priority targets detailed by ground magnetic traverses and closely spaced gravity stations. Inclined holes were drilled to test magnetic targets (drillholes DWR00001, 2 and 4) while vertical holes tested gravity features (drillholes DWR00003, 5, 6, 7, 8 & 9).

The drill contract was awarded to Frank Walsh Drilling Pty Ltd, Mount Barker. Drilling commenced on the 17th May and was completed by the 26th May, 2000. All holes were RC percussion drilled from surface.

1.2.1 DWR00001

An inclined hole (-60^{O} ->AMG North) drilled to a depth of 195m, the hole was designed to primarily test an intense magnetic (2500nT) feature with weak coincident gravity (1.1mGal) anomalism designated target DWM001. The anomaly is located to the south of a major interpreted fault, which separates magnetic domains of different structural character.

Modelling of ground magnetic and gravity data indicated a depth to target of 120m and 162m respectively. Drillhole DWR00001 was designed to intersect both the magnetic and gravity targets at a down hole depth of 140m, with an initial planned hole depth of 300m. The hole was stopped at 195m having drilled approximately 75m of interpreted highly magnetic granitoid.

Water was intersected at 84m, however flow was minimal with water quality approximately 10,400ppm TDS.

Geology
The hole intersected Quaternary to Recent calcareous clays (0-6m) and Tertiary clays and lesser sands (6-49m) overlying variably weathered to fresh Proterozoic metasediments (49-120) and granitoid (120-195m).

Weathered Proterozoic basement clays (50-78m) incorporate a weakly developed lateritic profile (50-58m), with thin laterite cap (49-50m), overlying weakly weathered metasediments to 118m.

Fresh basement comprises a sequence of predominantly medium grained massive quartzo-feldspathic (albitic) metasediments and fine-medium grained hematite $\pm$ albite-magnetite rich units (118-120m) overlying / in contact with highly magnetic medium to rarely coarse grained leucocratic granitoid of dioritic to granodioritic composition (120-EOH).

Hematite $\pm$ magnetite within the metasedimentary sequence occurs as disseminations, as thin (~1-3m) massive to banded/laminated units (logged as iron formation) and as massive to specular hematitic veins below 104m. Possible minor calcsilcate (actinolite?) is also noted from 78-84m and ex-amphibole/clinopyroxene, now totally(?) replaced by magnetite+chlorite occurs sporadically throughout to 120m.

Minor granites intrude the metasedimentary sequence at 98-104m and 110-112m.

Alteration
The metasedimentary sequence is interpreted to have undergone regional albitisation followed by latter overprinting variably pervasive and locally intense Fe-K (K-feldspar-hematite-magnetite-biotite) metasomatism. In places chlorite-hematite/magnetite-(biotite?) forms 'clots', possibly after amphibole and occasionally defines a weak layering. Hematite appears to be the dominant Fe-oxide (based on logging and magnetic susceptibility values) suggesting low to moderate temperature metasomatic fluid.

The granitoid below 120m has undergone a moderate to weak retrograde (chlorite-sericite±epidote) alteration event.

Veining
Relatively extensive veining occurs in the lower parts of the metasedimentary sequence below 112m and upper parts of the interpreted granitoid. Massive to specular hematite veins occur within the metasediments from 110-118m and occasionally within the granitoid from 144-148m. Hematite+carbonate-pyrite veins are also noted from 140-142m. Carbonate is a common component of veins within the upper parts (124-142m) of the granitoid associated with quartz±K-feldspar.

Mineralisation
No sulphides are noted within the metasedimentary sequence. Disseminated to patchy trace to 1% euhedral pyrite is noted from 118m to EOH and in veins within the intervals 138-140m and 142-144m.

Geochemistry
A total of 28 samples were submitted for assay including a duplicate (FU9584)

Assay results for base and precious metals are low with Au below detection and maximum values for Cu, Pb and Zn of 91ppm, 20ppm and 78ppm respectively. Iron values are relatively high with the majority of values +10% Fe, to a maximum of 13.18%.

Geophysics
The metasedimentary sequence is moderately magnetic below the base of strong weathering at 78m, with a maximum value of 1,500 SI units (116-118m) at the interpreted contact between metasediments and magnetic granitoid. The average value for the interval 78-118m is approximately 550 SI units indicating a predominantly hematitic mineralogy. The granitoid (119m-EOH) is highly magnetic with a maximum value of 15,000 SI units recorded and an average value of approximately 11,000 SI units.

No radiometric anomalies noted. Values vary little from an apparent background of 40 counts, with a minimum and maximum of 35 (190-194m) and 45 counts (98-100m) respectively.

Specific Gravity Data
A total of eight SG samples were collected from fresh basement with an average SG of 2.9 and a maximum of 2.97 for the interval 130-140m. It should be noted that no SG samples were collected from the metasedimentary sequence.

Conclusions
Drillhole DWR00001 intersected an interpreted regionally albitised, but locally K-Fe metasomatised quartzofeldspatic metasedimentary sequence overlying highly magnetic leucocratic granitoid of interpreted dioritic to granodioritic composition. Petrology indicates the quartzofeldspathic metasedimentary sequence to be more extensive than that logged, with sample DWR00001 (132-134m) an altered (potassic) felsic metasediment, with opaques (magnetite-hematite) in a fine-grained equigranular pale grey albite and K-feldspar matrix. The hole is non-mineralised.

The gravity anomaly is unexplained by drilling.

1.2.2 DWR00002

An inclined hole (-60^{O} ->AMG East) drilled to a depth of 223m this hole was designed to test a small discrete coincident magnetic (3600 nT) and gravity (1.6 mGals) anomaly designated target DWM04 or DWG04. The anomaly lies at the northern end of a weakly magnetic stratigraphic(?) trend, with the target thought prospective for IOCG type mineralisation.

Modelling and interpretation of both ground magnetic and gravity data indicated a vertical depth to source of 25m and 32m respectively. The drillhole was designed to intersect both the magnetic and gravity targets at approximately 60m down hole depth, with a planned hole depth of 250m. The hole was stopped at 223m due to drilling difficulties having drilled through a prospective sequence of variably to highly Fe-(Na/K) metasomatised metasediments.

Water was intersected at varying depths downhole, with the main flow from the interval 118-120m. No water sample was collected.

Geology
The hole intersected Recent to Quaternary calcareous clays (0-8m) and Tertiary clays and sands (8-12m) overlying interpreted highly to moderately weathered Adelaidean sediments (12-52m) and weakly weathered to fresh variably altered Palaeo Proterozoic psammitic to psammopelitic metasediments (52-223m).

Interpreted Adelaidean sediments are strongly to highly weathered sandstones and silty sandstones with the base of the sequence interpreted at approximately 52m. The base of the Adelaidean marks the apparent base of weathering with Palaeo Proterozoic basement interpreted as weak to moderately oxidised only.

Palaeo Proterozoic basement to approximately 182m is interpreted to be a sequence of intensely and pervasively Fe-(K/Na)[##] metasomatised fine to occasionally medium grained quartzofeldspathic metasediments and possible pre-metasomatic iron rich units interpreted to be part of the upper Quartzofeldspathic Suite. Possible greyish green calcsilicate (actinolite) is noted from 170-178m within weakly altered metasedimentary fragments and chlorite+hematite 'clots' (possibly after amphibole) partially define banding or layering throughout the upper portions of the hole.

A thin (~1m) brecciated fault within the interval 180-182m marks the base of intense metasomatism, with the sequence below 182m relatively unaltered or weak to

[##] It should be noted that there is a large degree of uncertainty in the identification of either K-feldspar or albite (complicated by the pervasive presence of Fe-oxide) and although some attempt was made the coding ABMA (albite-magnetite rock) or K+ used in logging is probably more indicative of the highly intense and pervasive nature of the alteration than the actual mineralogy

moderately altered fine-grained psammitic (quartzite) to psammopelitic units. The sharp contrast in alteration may indicate (significant) movement along the fault.

A possible thin (≤1m) altered amphibolite (184-186m) occurs within a broad sequence of fine grained strongly sericitised and chloritised psammopelites from 182-198m. Variably laminated, altered and oxidised cherts and massive fine-grained psammitic to quartzitic units underlie the psammopelites from 198m to EOH.

Alteration
The sequence to approximately 182m is intensely and pervasively Fe-(NaK) (magnetite-Kfeldspar-albite-biotite±pyrite) metasomatised. Metasomatism, at least in the lower parts of the hole from approximately 160m to 180m, is interpreted to have altered pre-existing iron rich lithologies resulting in recrystallisation and development of massive medium to occassionally coarse-grained magnetite-hematite-quartz (QMBF) ironstones.

The sequence below 182m is variably altered. Pelitic to psammopelitic units from 182-198m have undergone interpreted retrogressive chlorite-sericite alteration, while units from 198m-EOH are weak to moderately potassic (red rock) altered.

A well developed 'spotted' textural appearance within the interval 184-186m is interpreted as garnet-epidote-(quartz) calcsilicate alteration of either an amphibolite or amphibolitic metasediment.

Veining
Veining is limited occurring predominantly below 182m. Quartz veining is associated with the fault and possible amphibolite while hematite-magnetite±quartz veins are noted from 208-210m and 222-223m.

The occurrence of magnetite-hematite-quartz veins may suggest proximal brecciation associated with the Fe-metasomatism (Ashley et al. 1998).

Mineralisation
Variably abundant disseminated fine to medium grained euhedral pyrite occurs sporadically throughout the hole and with associated trace fine-grained chalcopyrite in the intervals 146-150m, 152-158m and 214-216m. No other sulphides noted.

Geochemistry
High to very high Fe and K results would appear to indicate a predominantly Fe-K metasomatic alteration event.

Minor highly anomalous (at least in the context of this drill program) Cu-Au-Mo is noted from 144-162m, with the interval assaying 18m@ 0.19ppm Au, 890ppm Cu & 254ppm Mo, with maximums for Au, Cu and Mo of 0.22ppm, 1470ppm and 394ppm respectively.

Of note are high P (max 4.06%) and Ca (max 10.45%) values from 198m to EOH with the interval assaying 25m@ approx 2.5%P, 6.2%Ca. The interval is coincident with logged variably laminated, altered and oxidised cherts and massive fine-grained psammitic to quartzitic units with no apatite noted.

Geophysics
Palaeo Proterozoic basement from 52m is weakly to highly magnetic, with magnetic susceptibility values of >20,000 SI units, to a maximum of 80,000 SI units, coincident with intense Fe-K metasomatism from 144-182m. Although Fe is abundant

throughout the hole to approximately 180m, magnetic susceptibility values vary significantly to 144m indicating a highly variable hematite-magnetite mineralogy.

Scintillometer values vary little down hole, although a weak 'kick', to a maximum of 60 counts above a background ranging from 40 to 45 counts, is noted from 134-154m.

Specific Gravity Data
A total of thirteen SG samples were collected from fresh basement with an average SG of 2.95 and a maximum of 3.8 for the interval 170-180m. The interval 170-180m incorporates a number of interpreted quartz-magnetite BIFs units and very high Fe assays (max 43.44%Fe). For the interval 140-180m, corresponding to the zone of intense Fe-metasomatism, an average SG of 3.37 is noted.

Conclusions
Based on geochemistry the sequence is intensely Fe-K metasomatised. It is unsure if the alteration is stratiform/stratabound or epigenetic, although high Fe assays and medium to occassionally coarse magnetite-hematite (predominantly 160-180m) may suggest recrystallisation of pre-existing Fe rich lithologies, possibly iron formations in the upper part of the Quartzofeldspathic Suite (Upper Albite). Minor Cu-Au-Mo anomalism is associated with intense metasomatism and the occurrence of Fe veins is interpreted to represent late stage brittle deformation.

1.2.3 DWR00003

A vertical hole drilled to depth of 140m this hole was designed to test a 1.6 mGal gravity anomaly designated DWG002_East. The anomaly lies just to the north-east of a folded magnetic unit which strikes and plunges to the north-east.

Modelling of the gravity data indicated a downhole depth to target of approximately 41m, with a planned final hole depth of 150m. The hole was stopped at 140m having drilled a thick sequence of albitic quartzofeldspathic metasediments.

The hole intersected water at approximately 105m, however flow rate was minimal and no water sample was collected.

Geology
The hole intersected Recent and Quaternary sandy to calcareous clays (0-10m) and Tertiary clays (10-18m) overlying interpreted weathered Adelaidean sediments (18-66m) and Palaeo Proterozoic variably albitic metasediments (66-140m) exhibiting occasional igneous textures (90-104m).

Interpreted Adelaidean sediments are strongly to highly weathered siltstones and silty sandstones. The base of the Adelaidean is interpreted at approximately 66m based on the occurrence of pyrite, hematite after probable magnetite and retrograde assemblages (epidote?) below this depth. A weak to moderately well developed lateritic profile is noted from 20-30m.

Interpreted Palaeo Proterozoic basement (66m-EOH) comprises a sequence of fine grained greyish psammitic to psammopelitic units (66-80m) overlying fine to medium grained variably albitic psammopelites (80-140m) displaying occasional equi-granular igneous like textures (90-104m). Common hematite is noted throughout the sequence to approximately 90m with magnetite from 90m-EOH. Carbonate and possible calcsilicate (actinolite) mineralogies are noted within the upper psammitic to psammopelitic sequence to 80m.

Alteration
Patchy trace epidote ± chlorite-carbonate is noted in the upper parts of the hole from the base of weathering (66m) to 76m, with the sequence below 80m weak-moderately chlorite-sericite-hematite ± epidote altered. The alteration is interpreted as retrograde.

Veining
Minor carbonate veining only noted from 98-100m.

Mineralisation
Trace to 1% patchy pyrite noted from the base of weathering to 76m and as disseminated blebs from 120-122m.

Geochemistry
A total of 24 samples were submitted for assay including a duplicate (FU9635).

All assay results are low with maximums for Cu, Pb and Zn of 75ppm, 26ppm and 91ppm respectively. All Au assays are below detection.

Geophysics
Magnetic susceptibility values for the Adelaidean sequence to 66m are low with values ranging from 5 to 90 SI units. Palaeo Proterozoic basement is variably magnetic with hematitic fine-grained psammitic to psammopelitic units to 88m non to weakly magnetic (maximum 450 SI units) and albitic 'igneous' quartzofeldspathic units to 132m highly magnetic to a maximum of 10,000 SI units. A sharp drop in values from 104-108m is associated with the water table, while a similar change in the magnetic character of the sequence below 132m to EOH is unexplained by logging.

Scintillometer values do not vary downhole with all values recorded as 40 counts.

Specific Gravity Data
A total of eight SG samples were collected from fresh basement with an average SG of 2.79 and a maximum of 2.89 for the interval 90-100m.

Within the metasedimentary sequence there is an apparent change in SG values at approximately 90m, with an average SG for the fine-grained psammitic to psammopelitic units of 2.7 and the albitic sequence from 90-130m of 2.86.

Conclusions
The hole is interpreted to have intersected Quartzofeldspathic Suite (Upper Albite?) metasediments. A petrological sample from the interval 96-98m is described as an altered meta-dolerite and comes from within a broader interval (90-104m) of medium grained quartzofeldspathic metasediments described as exhibiting igneous like textures. The gravity anomaly is probably a response to the doleritic intrusive (90-104m).

1.2.4 DWR00004

An inclined hole (-60^{O} toward AMG North) drilled to a depth of 174m, this hole was designed to test a coincident gravity (2.5 mGal) and magnetic (3000 nT) anomaly designated DWM002_West. The anomaly lies on the southern limb of a folded magnetic unit, which strikes and plunges to the north-east.

Modelling of the gravity and ground magnetic data indicated a variable depth to source of approximately 37m and 110m respectively. The drill hole was planned to intersect both targets with an initial planned hole depth of 250m. The hole was stopped at 174m having intersected approximately 90m of highly magnetic diorite beneath quartzofeldspathic metasediments.

The hole intersected water at approximately 76m and 125m, however flow rates were minimal with no water sample collected.

Geology
The hole intersected Quaternary calcareous clays (0-6m) and Tertiary clays to gravelly sands (6-22m) overlying weathered Palaeo Proterozoic metasediments (22-84m) and intermediate granitoid of interpreted dioritic composition (84-174m).

Weathered Palaeo Proterozoic basement comprises orangey brown to yellowish brown clays (22-40m) with minor to common manganiferous(?) and iron rich fragments occurring near the base. An interpreted granitic unit (44-50m) marks a sharp contact between highly weathered basement clays and weakly weathered, strongly fractured, medium grained quartzofeldspathic metasediments exhibiting granitic like equi-granular textures (50-82m). The base of weak weathering is interpreted to be 82m.

Below the base of weathering a thin interval of equi-granular quartzofeldspathic metasediments (84-92m) overlies interpreted medium to occassionally coarse grained highly magnetic leucocratic diorite.

Alteration
Weak to moderate, occassionally strongly pervasive, retrograde epidote-chlorite-sericite alteration is noted throughout. A broad zone of interpreted weak patchy potassic alteration noted from 98-130m may reflect hematite after magnetite dusting of feldspar.

Veining
Trace to minor predominantly quartz±calcite-epidote-Kfeldspar veins occur sporadically throughout the granitoid.

Mineralisation
Trace to 1% disseminated pyrite occurs throughout the hole from 80m with possible rare chalcopyrite noted from 108-110m.

Geochemistry
A total of 30 samples were submitted for assay, including a duplicate (FU9665) and the standard “OREAS 43P” (FU9660).

In general assay results are low with gold at or below detection and maximums for Cu, Pb and Zn of 645ppm, 16ppm and 227ppm respectively. Weakly anomalous Cu is associated with minor visible chalcopyrite, with the interval 106-124m assaying 18m@ 570ppmCu.

Geophysics
Palaeo Proterozoic basement is variably magnetic reflecting rock type and weathering. Magnetic susceptibility values increase downhole from 90 to a maximum of 700 SI units for strongly weathered basement (to 44m) and range from 1,200 to 4,500 SI units for weakly weathered metasediments to 84m. At the base of weathering values increase markedly with the thin metasedimentary unit (84-92m)

and interpreted diorite highly magnetic with values ranging from 8,000 to 15,000 SI units.

Scintillometer values do not vary downhole with a constant value of 40 counts recorded.

Specific Gravity Data
A total of 9 SG samples were collected from fresh basement with an average SG of 3.00 and a maximum of 3.04 recorded for the interval 130-140m.

The values are consistently higher than seen in other drill programs throughout the area for intermediate to basic granitoids.

Conclusions
Higher than expected SG values for a magnetic mafic diorite adequately explain the coincident magnetic and gravity anomalies associated with this target.

1.2.4 Drillholes DWR00005 & 6

Drillholes DWR00005 and DWR00006 were drilled to test a 1mGal gravity anomaly (DWG06) located within the interpreted hinge zone of a tight fold defined by aeromagnetic data. The anomaly lies within non-magnetic psammitic to psammopelitic units of the 'Pelite Suite' and thought prospective for Broken Hill type mineralisation.

Modelling of the gravity data indicated a relatively shallow vertical depth to source of approximately 60m. Two vertical holes were drilled to the planned depth of 180m intersecting a sequence of graphitic fine grained pelitic to psammopelitic metasediments.

Drillholes DWR00005 & 6 intersected water at 126m and 112m respectively but only in drillhole DWR00006 was there significant flow (~2,500 gallons/hr) with water quality approximately 16,500ppm TDS.

Geology
Drillholes DWR00005 & 6 intersected a thin cover sequence of Quaternary calcareous clays (0-8m and 0-6m respectively) and Tertiary clays to sands (8-14m and 6-16m respectively) overlying weathered to fresh Palaeo Proterozoic graphitic pelitic to psammopelitic metasediments.

In drillhole DWR00005 a poorly developed lateritic profile (14-32m) overlies moderate to highly micaceous graphitic clays (32-92m) containing minor schistose/pelitic fragments and weakly weathered basement psammopelites (92-100m). Drillhole DWR00006 intersected no lateritic profile with weakly micaceous moderate to strongly weathered basement clays (16-60m) overlying weakly weathered graphitic psammopelitic units to 104m.

In both DWR00005 & 6 unweathered Palaeo Proterozoic basement is a monotonous sequence of grey fine-grained variably graphitic quartz-biotite-staurolite pelitic to psammopelitic units with minor sphene noted in DWR00006 from 112-114m.

Alteration
Chlorite and sericite are noted throughout both holes and may represent weak retrogressive alteration.

Veining
Minor coarse quartz veining occurs in drillhole DWR00006 at 60-62m and 138-140m.

Mineralisation
Trace to 1% disseminated blebby pyrite occurs throughout both holes from near the base of weathering. Trace pyrrhotite is noted in drillhole DWR00005 from 126-128m.

Geochemistry
A total of 66 samples were submitted for assay from both DWR00005 (33 samples) and DWR00006 (33 samples), including three duplicates (FU9690 from DWR00005 and FU9725 & FU9745 from DWR00006) and the standard 'Saproth Lo' (FU9710 from DWR00005)

All assay results are low with gold below detection for both holes and maximums for Cu, Pb and Zn of 48ppm, 114ppm and 289ppm for DWR00005 and 50ppm, 70ppm and 98ppm for DWR00006 respectively. Minor weakly elevated arsenic to 50ppm occurs sporadically through DWR00005 and in broader zones to 40ppm in DWR00006.

Geophysics
Palaeo Proterozoic basement is non-magnetic with maximums of 250 and 100 SI units for drillholes DWR00005 & 6 respectively.

Scintillometer values vary little down either hole from an apparent background of 40 to 45 counts with maximum values of 40 and 50 counts for drillholes DWR00005 & 6 respectively.

Specific Gravity Data
A total of 15 SG samples were collected from fresh basement, with 8 samples from DWR00005 and 7 from DWR00006. One sample, DWR00005 100-110m, recorded an exceptionally low SG of 2.12 and may reflect a weighing error.

Density measurements for both holes returned an average SG of 2.88 and a maximum of 2.92, which although slightly elevated is roughly consistent with previous SG calculations for pelitic to psammopelitic sequences.

Conclusions
The gravity anomaly is not explained by drilling. Petrology, sample DWR00005 (112-114m), describes coarse porphyroblastic andalusite, a common feature of the 'Pelite Suite'.

1.2.4 Drillholes DWR00007,8 & 9

Drillholes DWR00007, 8 and 9 were drilled to test a 2 mGal 'L' shaped gravity anomaly designated DWG05 and situated on the edge of a circular magnetic unit. Drillholes DWR00008 & 9 were drilled to test either end of the anomaly while drillhole DWR00007 was drilled off the anomaly to enable comparative rock density measurements. The anomaly lies within non-magnetic psammitic to psammopelitic units of the 'Pelite Suite' and thought prospective for Broken Hill type mineralisation.

Modelling of the gravity data indicated a vertical depth to source of approximately 100m. All holes were vertical with planned final depths of 200m. Drillhole DWR00007, drilled to 196m intersected a monotonous weakly magnetic fine grained

psammitic sequence which was repeated in drillholes DWR00008 & 9, both of which were stopped at 150m.

Water was intersected in drillholes DWR00007 & 9 at 178m and 105m respectively, with only a minor flow of approximately 1,000 gallons/hr in DWR00007. Water quality was approximately 15,000ppm TDS.

Geology
Drillholes DWR00007, 8 and 9 intersected Quaternary calcareous clays and Tertiary clays and sands overlying a variably thick weathered Palaeo Proterozoic sequence of clays and fine-grained psammitic units. In drillhole DWR00007 Quaternary calcareous clays (0-2m) and Tertiary clays (2-12m) overlie extremely weathered basement to 78m and weakly weathered psammitic units to 88m. A similar sequence is noted in DWR00009 where Quaternary calcareous clays (0-6m) and Tertiary sands and lesser clays (6-11m) overlie highly weathered basement (11-26m) and weakly weathered psammitic units to 58m. However, in drillhole DWR00008 a thin veneer of Quaternary calcareous clays (0-2m) directly overlies moderate to weakly weathered Palaeo Proterozoic basement psammites (2-8m) defining a topographic high.

All holes intersected a fine grained weakly magnetic quartzo-feldspathic sequence with well-developed schistosity. Drillholes DWR00008 & 9 vary mineralogically from DWR00007 in that trace medium to occasionally coarse grained reddish brown to orangey brown garnet and sporadically distributed sulphide (Py $\pm$ Cp) are noted. In drillhole DWR00008 epidote occurs in veins and throughout the lower parts of the sequence as patchy disseminations.

Alteration
Chlorite-sericite $\pm$ epidote is noted throughout all holes and is interpreted to represent weak retrogressive alteration.

Veining
All drillholes are variably veined, although veining in drillhole DWR00009 is limited to the interval 146-148m where minor quartz veins are noted.

In drillhole DWR00007 major quartz veining is noted from 62-64m and from 68-71m. Minor qz-epi-chl veins are noted from 106-110m.

In drillhole DWR00008 epidote-qz$\pm$chl-(garnet-sericite?) veining is common with the intervals 26-28m and 124-126m strongly qz-epi-chl veined.

Mineralisation
Intervals of rare to trace fine-grained disseminated pyrite and lesser possible chalcopyrite are sporadically distributed throughout drillholes DWR00008 and 9. In general chalcopyrite occurs in pressure shadows to magnetite.

Geochemistry
A total of 92 samples were submitted for assay with 36 samples from DWR00007, 27 samples from DWR00008 and 29 samples from DWR00009. Included in the total are three duplicates (FU9770 from DWR00007, FU9795 from DWR00008 and FU9820 from DWR00009) and three standards, 'REST' (FU9760 from DWR00007), 'OREAS 42P' (FU9821 from DWR00009) and 'MD4' (FU9837 from DWR00009).

All assay results are low with gold below detection for all holes and maximums for Cu, Pb and Zn of 98ppm, 18ppm and 130ppm for DWR00007, 417ppm, 14ppm and

185ppm for DWR00006 and 397ppm, 18ppm and 351ppm for DWR00009 respectively.

Geophysics
Palaeo Proterozoic basement in all three holes is weakly magnetic with maximums of 3,000, 2,000 and 4,000 SI units for drillholes DWR00007, 8 and 9 respectively.

Scintillometer values vary little downhole from an apparent background of 40 to 45 counts, with a maximum value of 50 counts for drillholes DWR00007 & 8 and 55 counts for drillhole DWR00009.

Specific Gravity Data
A total of 33 SG samples were collected from fresh basement, with 11 samples from DWR00007, 13 samples from DWR00008 and 9 samples from DWR00009.

Density measurements for drillholes DWR00007 and 8 returned an average SG of 2.80 and a maximum of 2.82, while the average from drillhole DWR00009 was 2.81 with a maximum of 2.83.

Conclusions
The gravity anomaly is interpreted as a response to the topographic basement high defined by drillhole DWR00008. All holes intersected non-mineralised psammitic to psammopelitic units of the Pelite Suite.

2 Environmental

All drillsites were rehabilitated during or at the end of the drill program, with all rubbish removed, drillholes backfilled and excess sample removed from site and disposed of. No heritage sites were disturbed.

REFERENCES

Ashley, P.M., Conor, C.H.H., Skirrow, R.G. (1998); Geology of the Olary Domain, Curnamona Province, South Australia. *Field guidebook to BHEI excursion 1998*.

Whittall, M. (2000); Memorandum: Deep Well Dam Drilling, May 2000.

APPENDIX 6

PETROLOGY REPORT

Mason Geoscience Pty Ltd

Petrological Services for the
Minerals Exploration and Mining Industry

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Petrographic Descriptions for Eight Drill Chip Rock Samples from the Olary Block

REPORT #	**2605**
CLIENT	**Euro Exploration Services / BHP Exploration**
ORDER NO.	**Memo, B. Rava**
CONTACT	**Mr Brett Rava**

REPORT BY	**Dr Douglas R Mason**
SIGNED	
	for Mason Geoscience Pty Ltd
DATE	**21 June 2000**

Petrographic Descriptions for Eight Drill Chip Rock Samples from the Olary Block

SUMMARY

1. Rock Samples

- Eight drill chip rock samples from the Olary Block have been studied using routine petrographic methods.

2. Brief Results

- *Rock names and mineralogy* are summarised in TABLE 1.

- *Primary rock types:*

  - *Fine-grained felsic rocks* are of uncertain origin, but they may have formed as felsic tuffaceous rocks such as ash tuffs and ash-crystal tuffs.

  - *Fine-grained sediments* of pelitic, semi-pelitic, and calc-silicate compositions are inferred to have formed part of the stratigraphic sequence. A single rock chip now dominated by apatite may represent a precursor fine-grained phosphatic sediment.

  - *Dolerite* of basic intrusive igneous origin crystallised an even-grained assemblage of plagioclase, pyroxene and accessory Fe–Ti oxide.

- *Metamorphism and metasomatic alteration*

  - All rocks display the effects of metamorphism in the upper greenschist to lower amphibolite facies.

  - Fine-grained felsic rocks suffered metamorphic and associated metasomatic alteration to produce a fine-grained matrix of K-feldspar + albite ± apatite, through which are scattered aggregates of biotite, magnetite, plagioclase and minor carbonate (?siderite). Concentration of magnetite and biotite in particular bands or horizons appears to reflect higher-intensity K-Fe metasomatism of those bands.

  - Pelitic meta-sediments recrystallised to porphyroblastic assemblages of quartz, biotite, garnet, staurolite, andalusite, cordierite, quartz and opaques (?graphite, ?ilmenite).

  - Fine-grained semipelitic to calc-silicate sediments recrystallised to assemblages of plagioclase, muscovite and epidote, with minor biotite, quartz and sphene. Brittle fractures were filled by space-filling assemblages of epidote + biotite + K-feldspar.

  - Possible phosphatic sediment recrystallised to a fine-grained massive assemblage of apatite + biotite + minor opaques (magnetite) + quartz.

  - Doleritic rocks generated least-altered metamorphic assemblages of albite + actinolite + trace opaques (magnetite). More intense alteration generated a K–Fe metasomatic replacement assemblage of K-feldspar + chlorite + opaques (?magnetite, ?pyrite) + sericite, or a Na–SO_4–Cl metasomatic assemblage of scapolite + opaques (magnetite) + sphene.

- Varied pleochroic schemes of biotites is considered to reflect the oxidation state of their environment of crystallisation. Reddish brown biotite in graphite-bearing meta-pelite reflects the relatively reduced environment of that meta-sediment. Chocolate brown biotite with associated magnetite in K–Fe metasomatised felsic rocks reflects a relatively oxidised environment. Green Fe^{3+}-rich biotite (not chlorite) in some meta-sediments and fracture fillings reflects highly oxidised metamorphic fluids in those environments.

• *Retrogressive alteration*

- Some samples display selective retrogressive alteration generally of low intensity: plagioclase in some meta-dolerite is replaced by fine mats of sericite; biotite in some meta-sediments is replaced by chlorite; cordierite and staurolite in meta-sediments have suffered partial to complete replacement by sericite ± chlorite.

TABLE 1: SUMMARY OF ROCK NAMES AND MINERALOGY

SAMPLE	ROCK NAME	MINERALOGY*			
		Primary**	**Metamorphic/alteration*****	**Veins**	**Weathering**
DWR00001, 110–112m	Magnetite–biotite altered felsic meta-sediment	-	Kf, opq(mt), bio, alb, apa ,spn	-	?Hem
DWR00001, 132–134m	Magnetite–biotite altered felsic meta-sediment	-	Kf, alb, opq(mt), bio, car(?sid)	-	?Hem
DWR00002, 150–152m	Biotite–magnetite altered felsic meta-sediment	-	Kf, bio, opq(mt), alb, qtz, car(?sid), apa	-	-
DWR00002, 170–172m	K-feldspar–magnetite–chlorite altered meta-dolerite	-	Kf, chl, opq(?mt, ?py), mus, qtz, spn, hbl	-	-
"	Weakly weathered apatite rock (meta-?phosphatic sediment)	-	Apa, bio, opq(?mt), qtz	-	Goe
DWR00002, 184–186m	Weakly retrogressed biotite–garnet–?cordierite meta-pelite	-	Bio, gar, ?crd, qtz, Kf; Ser, chl	-	-
DWR00003, 96–98m	Sericite-retrogressed, actinolite meta-dolerite	Opq	Act, alb; Ser	-	-
"	Scapolite-metasomatised meta-dolerite	-	Scp, act, opq(?mt), spn	-	-
DWR00005, 112–114m	Staurolite–andalusite–cordierite schist (porphyroblastic meta-pelite)	-	Qtz, and, stt, crd, bio, opq(?grp, ?ilm);Ser, chl	-	-
DWR00008, 124–126m	Epidote veined schistose meta-semipelite	-	Pla, mus, epi, qtz, bio, opq(?mt), spn	Epi, bio, Kf	-
"	Epidote veined meta-calc-silicate rock (meta-sediment)	-	Pla, epi, qtz, bio, spn	Epi, bio, Kf	-

NOTES:
*: Minerals are listed in each paragenesis according to approximate decreasing abundance.
**: Only primary minerals currently present in the rock are listed. Others may have been present, but are altered.
***: Earlier parageneses are separated from later parageneses by a semicolon.

Mineral abbreviations:
Act = actinolite; alb = albite; and = andalusite; apa = apatite; bio = biotite; car = carbonate mineral; chl = chlorite; crd = cordierite; epi = epidote; gar = garnet; goe = goethite; grp = graphite; hbl = hornblende; hem = hematite; ilm = ilmenite; Kf = K-feldspar; mt = magnetite; mus = muscovite; opq = undifferentiated opaque minerals (possible minerals in brackets); pla = plagioclase; py = pyrite; qtz = quartz; scp = scapolite; ser = sericite; sid = siderite; spn = sphene; stt = staurolite; ?min = uncertain mineral identification

1. INTRODUCTION

Mr Brett Rava (Euro Exploration Services, Kent Town, South Australia) made an office visit to Mason Geoscience Pty Ltd on 6 June 2000, and provided a suite of eight drill chip rock samples. It was indicated that the samples originate from an exploration lease in the Olary Block.

Particular requests were:

i) To prepare a thin section and a routine petrographic description (service PETRO 2.2) for each sample.

ii) To respond to brief queries posed for each sample.

Preliminary petrographic comments were provided to Mr Rava by facsimile to the Kent Town office of Euro Exploration Services on 16 June 2000. This report contains the full results of this work.

2. METHODS

The rock chip samples were examined in hand specimen and multiple chips were selected for multi-chip thin section preparation. For most samples, a few chips were present in the sample so all chips were included in the section.

At Mason Geoscience Pty Ltd, conventional transmitted polarised light microscopy was used to prepare the routine petrographic descriptions.

Preliminary petrographic observations suggested that K-feldspar was present in some samples. For confirmation, each section offcut was stained for K-feldspar using the conventional sodium cobaltinitrite method. Each offcut was etched in HF for ~10 seconds, rinsed in water, covered with freshly made saturated solution of sodium cobaltinitrite for ~30 seconds, and finally rinsed. This procedure generates a bright yellow stain where K-feldspar occurs in the rock. The results are provided in TABLE 2, and are also given under Hand Specimen description in the individual petrographic descriptions.

TABLE 2: RESULTS OF STAINING FOR K-FELDSPAR

SAMPLE	RESULT*	COMMENTS
DWR00001, 110–112m	Positive	Strong yellow stain indicating abundant K-feldspar in fine-grained matrix.
DWR00001, 132–134m	Positive	Strong yellow stain indicating abundant K-feldspar in fine-grained matrix.
DWR00002, 150–152m	Positive	Strong yellow stain indicating abundant K-feldspar in fine-grained matrix.
DWR00002, 170–172m	Positive	Strong yellow stain in some chips, indicating abundant K-feldspar in fine-grained matrix. Some chips fail to accept the stain, suggesting lack of K-feldspar.
DWR00002, 184–186m	Negative	K-feldspar absent.
DWR00003, 96–98m	Positive	Yellow K-feldspar stain has affected some felsic grains in diffuse areas in some chips (N.B. This is a 'pseudo-positive' stain after sericite, not K-feldspar).
DWR00005, 112–114m	Negative	K-feldspar absent.
DWR00008, 124–126m	Positive	A trace of K-feldspar occurs in some thin fracture-fillings dominated by dark ?biotite.

* : Positive = Yellow stain for K-feldspar observed in stained section offcut using binocular microscope.
Negative = No yellow stain for K-feldspar observed in stained section offcut using binocular microscope.

3. PETROGRAPHIC DESCRIPTIONS

The petrographic descriptions are provided in the following pages.

SAMPLE : DWR00001, 110–112m (Olary Block)

SECTION NO. : DWR00001, 110–112m

HAND SPECIMEN : The drill chip sample is composed of several rock chips, all of which appear to represent a single rock type which is composed of blocky black grains disseminated through a pale pinkish cream matrix.

The chips respond strongly to the hand magnet, suggesting the dark grains are magnetite. However, many display a reddish streak implying partial replacement by hematite.

The section offcut accepted a strong yellow stain indicating abundant K-feldspar occurs in the fine-grained matrix.

ROCK NAME : **Magnetite–biotite altered felsic meta-sediment**

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
K-feldspar	67	Metamorphic alteration (after matrix)
Opaques	12	Metamorphic alteration
Biotite	10	Metamorphic alteration
Albite	10	Metamorphic alteration
Apatite	Tr	Metamorphic alteration
Sphene	Tr	Metamorphic alteration

In thin section, this sample displays a porphyroblastic metamorphic texture.

Much of the rock is composed of a very fine-grained massive mosaic of microcrystalline K-feldspar. It is very difficult to optically identify because of its very fine grain size (tens of microns), except for its generally low birefringence, lack of colour and strong positive stain which supports K-feldspar. Locally, slightly larger K-feldspar grains are concentrated in diffuse large patches or bands which appear to reflect indistinct primary layering. These K-feldspar grains display the 'tartan' twinning (combined albite and pericline twinning) that is characteristic of microcline. A trace amount of similar slightly larger K-feldspar grains occur as lineated aggregates in pressure shadows at ends of some opaque crystals, confirming that the K-feldspar crystallised in the presence of a directed regional stress regime.

Opaques occur in significant amount, mostly as equant euhedral crystals of cubic morphology. Many are porphyroblasts ~0.4–0.6 mm in size, but tiny micron-sized crystals are also sprinkled through the very fine-grained K-feldspar-rich matrix. Most of the opaques are inferred to be magnetite, as suggested by the strong magnetic response of the hand sample, but most crystals are inferred to have suffered partial hematitic alteration as inferred by the reddish streak in hand specimen.

Biotite is moderately abundant, forming small ragged flakes and slightly larger better-formed plates ranging up to ~0.4 mm in size. They tend to be concentrated in aggregates marginal to opaque crystals, but also are scattered elsewhere through the rock. Locally, the biotite and magnetite tend to be concentrated in indistinct horizons, contributing to the weakly layered structure.

Albite occurs in minor amount as small subhedral to anhedral grains that are sparsely disseminated through the K-feldspar-rich matrix.

Apatite builds blocky subhedral to anhedral grains that display their typical lack of colour, high relief and very low birefringence. They are sparsely and irregularly disseminated through the rock, but also tend to be loosely concentrated in particular horizons.

Sphene is uncommon, forming fine microgranular aggregates in close association with opaques and biotite aggregates.

INTERPRETATION:

This sample is considered to represent a fine-grained felsic sedimentary rock, possibly of felsic volcanogenic (?ash tuff) origin. It has suffered strong pervasive alteration during a regional metamorphic event, generating the new assemblage of microcline + opaques (magnetite) + biotite + albite + minor apatite + sphene. The new minerals developed in the presence of a weak directed regional stress regime, as indicated by the tendency for development of lineated aggregates of slightly coarser-grained K-feldspar at ends of some opaque crystals. The abundance of opaques (magnetite) and biotite suggest that Fe–K metasomatism occurred during this metamorphic alteration event.

***Client query**: What is the alteration and what are the clots (ex amphibole now chlorite + magnetite??).*

Response: The alteration is considered to be of Fe–K metasomatic type, and is inferred to have occurred in response to invasion of the rock body by fluids as part of a regional metamorphic event. The 'clots' are aggregates of magnetite and biotite. No amphibole or chlorite are present.

SAMPLE : DWR00001, 132–134m (Olary Block)

SECTION NO. : DWR00001, 132–134m

HAND SPECIMEN : The drill chip fragments represent a single rock type which is composed of black grains that tend to be elongated in a preferred orientation in a fine-grained pale grey matrix.

The section offcut responds strongly to the hand magnet, suggesting magnetite is present.

The section offcut accepted a strong yellow stain for K-feldspar, indicating it occurs abundantly in the fine-grained matrix.

ROCK NAME : **Magnetite–biotite altered felsic meta-sediment**

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
K-feldspar	54	Metamorphic alteration
Albite	30	Metamorphic alteration
Opaques (mainly ?magnetite)	10	Metamorphic alteration
Biotite	5	Metamorphic alteration
Carbonate (?siderite)	<1	Metamorphic alteration

In thin section, this sample displays a patchy alteration texture.

K-feldspar is abundant, forming minute (micron-sized) anhedral grains in an equigranular mosaic throughout the matrix areas of the rock.

Albite is moderately abundant, and occurs in different sites:

i) Much occurs as relatively large subhedral twinned prismatic crystals ~0.2–1.5 mm long that are concentrated in patches scattered through the rock. Many of the patches display relatively well-defined shapes that are equant, blocky or prismatic in general shape. They might represent thoroughly altered precursor crystals (eg feldspar) but none is preserved for confirmation. Some patches are much more irregular in shape, and therefore most probably did not form by replacement of precursor crystals.

ii) Some albite occurs as small equant grains disseminated through the K-feldspar-rich matrix. The albite grains tend to be concentrated in indistinct horizons which contributes to a poorly-defined layering (possibly primary layering).

Opaques occur in two sites:

i) Much occurs as equant euhedral crystals of cubic form and microgranular aggregates, concentrated in the alteration patches of albite–biotite–opaques.

ii) A smaller amount of opaques occurs as minute (micron-sized) equant crystals that are uniformly sprinkled through the K-feldspar rich matrix.

All of the opaques are inferred to have formed as magnetite, as supported by their crystal forms and the magnetic response of the hand sample. It is possible that some of the magnetite has been replaced by some hematite, as suggested by dull reddish colour and streak of some grains in the section offcut.

Biotite, like magnetite, occurs in two sites:

i) Much occurs as small ragged flakes that are concentrated in the alteration patches of albite–biotite–opaques.

ii) Minute ragged flecks of biotite are uniformly disseminated through the matrix areas. Locally, their preferred orientation contributes to definition of a weak foliation.

Carbonate occurs in minor amount as subhedral rhombic crystals and anhedral plates intergrown with albite, opaques and biotite in the coarser-grained alteration patches. The strong double refraction and turbid brownish appearance of the carbonate is suggestive of an Fe-carbonate composition (possibly siderite) as supported by its association with Fe-bearing opaques (magnetite) and biotite.

INTERPRETATION:

This sample is considered to represent a felsic sediment, possibly of felsic crystal tuff origin, that has suffered severe metasomatic alteration during a regional metamorphic event. This resulted in generation of the new assemblage of K-feldspar + albite + opaques (mainly ?magnetite) + biotite + minor carbonate (?siderite). Alteration patches of coarser-grained albite + biotite + magnetite ± siderite developed pervasively through the rock, possibly mainly by replacement of crystals (?feldspar crystals).

***Client query**: What is the alteration, what comprises the clots and fills the voids/cavities. Is this post or does it overprint the DWR00001 (110–112m) alteration?*

Response: This sample has suffered a similar type and style of alteration as the previous sample (DWR00001, 110–112m). Both suffered pervasive metasomatic alteration as part of a regional metamorphic event, with development of new mineralogy dominated by K-feldspar, opaques (magnetite), biotite and albite. In this sample, the clots are composed of slightly coarser-grained aggregates of albite + biotite + opaques (magnetite), and appear to have formed by replacement of precursor crystals, possibly mainly ?feldspar, but at least some of the clots are of irregular shape and appear to have replaced patches in the matrix.

SAMPLE : DWR00002, 150–152m (Olary Block)

SECTION NO. : DWR00002, 150–152m

HAND SPECIMEN : The drill chip sample is composed of numerous angular rock chips ~1–3 cm in size. They appear to represent a single rock type composed of fine-grained pale pinkish grey matrix through which are distributed black grains and aggregates that tend to be elongated in the trace of a structure. In some chips, the black aggregates are concentrated in thicker bands or horizons.

The section offcut responds strongly to the hand magnet, suggesting the black grains and aggregates are magnetite. They display a black streak, suggesting that they have not suffered hematitic alteration as observed in other samples in this suite.

The section offcut accepted a strong yellow stain indicating abundant K-feldspar in fine-grained matrix.

ROCK NAME : **Biotite–magnetite altered felsic meta-sediment**

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
K-feldspar	60	Metamorphic alteration
Biotite	20 (2–40)	Metamorphic alteration
Opaques (mainly ?magnetite)	10 (2–50)	Metamorphic alteration
Albite	10	Metamorphic alteration
Quartz	Tr	Metamorphic alteration
Carbonate (?siderite)	Tr	Metamorphic alteration
Apatite	Tr	Metamorphic alteration

In thin section, this sample displays a pervasive metamorphic alteration texture.

K-feldspar is abundant, occurring mostly as minute anhedral grains that form a dense mosaic throughout the matrix areas of the rock. Locally, K-feldspar forms larger subhedral crystals and ragged grains in coarser-grained alteration patches with biotite and opaques. The coarser K-feldspar displays the combined albite and pericline twinning ('tartan' twinning) characteristic of microcline.

Biotite forms small ragged flakes that are pleochroic from dark tan brown to pale brown. They are concentrated in coarser-grained alteration patches with opaques. The aggregates tend to be aligned in the trace of a structure, possibly precursor primary lamination. The biotite flakes display random orientation (ie no foliation is evident in the rock).

Opaques occur mostly as equant subhedral crystals of cubic morphology ~0.2 mm in size, concentrated in coarser-grained alteration patches and bands with biotite. The crystal shape and the magnetic response of the hand sample supports identification as magnetite.

Albite occurs as small subhedral to anhedral grains disseminated through the very fine K-feldspar-rich matrix areas.

Quartz is uncommon, forming clear anhedral grains associated with alteration biotite and opaques.

Carbonate is rare, occurring as anhedral grains associated with the coarser-grained alteration patches of biotite and magnetite. The strong double refraction and turbid appearance, and association with Fe-rich phases (magnetite, biotite), support identification as siderite.

Apatite occurs in trace amount as small equant anhedral grains sparsely disseminated through the fine-grained K-feldspar-rich matrix.

INTERPRETATION:

This sample is inferred to have formed as a fine-grained felsic rock, possibly of ash-tuff origin. It suffered strong pervasive metasomatic alteration during a regional metamorphic event, generating the new assemblage of K-feldspar + biotite + opaques (mainly magnetite) + albite + minor quartz + carbonate (?siderite) + apatite. It is notable that the alteration is irregularly distributed, and the tendency for magnetite and biotite to be concentrated in indistinct horizons suggests that it may have favoured precursor sedimentary layers.

***Client query**: Is the Fe-metasomatism overprinting an earlier potassic/sodic alteration?*

Response: There is no clear petrographic evidence for different events. A single event is adequate to explain the alteration assemblage and texture.

SAMPLE : DWR00002, 170–172m (Olary Block)

SECTION NO. : DWR00002, 170–172m

HAND SPECIMEN : The drill chip sample is composed of two different rock types. Most chips appear to represent a fine-grained massive greenish grey rock, with uncommon small euhedral lustrous silvery pyrite crystals. One chip represents a fine-grained massive drab brown rock.

The section offcut responds strongly to the hand magnet, suggesting magnetite is present in significant amount.

The section offcut accepted a positive pervasive yellow stain for K-feldspar in the massive greenish grey chips, but the drab brown chip failed to accept the stain.

ROCK NAMES : **K-feldspar–magnetite–chlorite altered meta-dolerite**

Weakly weathered apatite rock (meta-?phosphatic sediment)

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
K-feldspar–magnetite altered meta-dolerite		
K-feldspar	74	Metamorphic alteration (after plagioclase)
Chlorite	15	Metamorphic alteration
Opaques (mainly ?magnetite, tr ?pyrite)	10	Metamorphic alteration
Muscovite	Tr	Metamorphic alteration
Quartz	Tr	Metamorphic alteration
Amphibole (hornblende)	Tr	Early metamorphic?
Sphene	Tr	Metamorphic alteration
Apatite rock (meta-?phosphatic sediment)		
Apatite	64	Metamorphic
Biotite	20	Metamorphic ?alteration
Opaques (mainly ?magnetite)	10	Metamorphic ?alteration
Quartz	1	Metamorphic
Goethite	5	Weathering

In thin section, this sample displays different textures and mineralogies in the two different rock types.

K-feldspar–magnetite–chlorite altered meta-dolerite retains part of its primary doleritic igneous texture. Randomly oriented plagioclase prisms mostly ~0.4–0.6 mm long have suffered complete replacement by K-feldspar which locally displays the combined albite and pericline twinning ('tartan' twinning) characteristic of microcline. In some areas, the precursor doleritic texture is destroyed by development of equant anhedral K-feldspar grains in a mosaic texture.

Chlorite is moderately abundant, forming small pleochroic green flakes that tend to form small aggregates probably after precursor pyroxene or amphibole. Rare ragged grains of strongly pleochroic dark green hornblende are observed in parts of the rock.

Opaques are disseminated irregularly through the rock as small euhedral crystals of cubic morphology, locally concentrated in aggregates. Most of the opaques are likely to be magnetite, as supported by the strong magnetic response of the section offcut to the hand magnet, but a small amount of pyrite (observed in section under hand lens as small lustrous crystals in contrast to black magnetite) occurs as small euhedral pyritohedra.

Muscovite occurs in minor amount as small replacement flecks and flakes, irregularly scattered through the rock.

Quartz forms rare clear ragged grains associated with opaques.

Sphene builds relatively large euhedral crystals with characteristic turbid brownish pleochroism.

Apatite rock (meta-?phosphatic sediment) is identified only in one chip. It is composed mostly of small equant anhedral clear grains of apatite that form an equigranular mosaic. Small ragged biotite flakes (pleochroic in browns, but partly modified by oxidation) occupy interstices between the apatite grains. Equant small opaque crystals (probably mainly magnetite) are irregularly disseminated through the rock. Quartz forms anhedral clear grains, peppered by small equant opaque crystals.

INTERPRETATION:

Two rock types are identified in this sample.

Apatite-rich rock may have formed as a phosphatic sediment. It has suffered complete recrystallisation to the new metamorphic assemblage of apatite + biotite + opaques (?magnetite) + trace quartz. Subsequent low-grade oxidation in response to weathering has generated goethite after biotite and opaques.

Dolerite formed as an intrusive basic igneous rock, crystallising to the equigranular assemblage of plagioclase + ?pyroxene. Subsequent invasion by metamorphic hydrothermal fluids caused pervasive K–Fe metasomatic alteration to the assemblage K-feldspar + chlorite + opaques (?magnetite, ?pyrite) + minor muscovite + quartz + sphene. Amphibole formed earlier in the evolution of the rock, possibly as an early metamorphic phase.

Client quer*y: Is the rock Fe-metasomatised?*

Response: Yes, the doleritic rock has suffered Fe- and K-metasomatism, generating the new alteration assemblage of K-feldspar + chlorite + opaques (magnetite, pyrite) + minor sericite + quartz + sphene. It is less clear whether the apatite rock has suffered metasomatic alteration or not.

SAMPLE : DWR00002, 184–186m (Olary Block)

SECTION NO. : DWR00002, 184–186m

HAND SPECIMEN : The drill chip sample comprises several large rock chips several centimetres in size. They represent dark green rocks with scattered small pale spots. One chip contains moderately abundant fine-grained equant grains of dull pinkish garnet.

The section offcut fails to respond to the hand magnet, suggesting magnetite is absent.

The section offcut failed to accept the stain for K-feldspar, suggesting it is absent.

ROCK NAME : **Weakly retrogressed biotite–garnet–?cordierite meta-pelite**

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
Biotite	39	Metamorphic
Garnet	15 (Tr–60)	Metamorphic
Quartz	15	Metamorphic
K-feldspar	1	Metamorphic
Sericite (incl. minor chlorite)	30	Retrogressive alteration (after p'blasts)

In thin section, this sample displays a massive (non-foliated) porphyroblastic metamorphic texture.

Biotite is abundant, forming small randomly oriented flakes that are pleochroic in drab tan browns in one chip, but pleochroic in drab greens (not chlorite) in another. The biotite pleochroism appears to reflect primary compositional differences (green is more oxidised variant) in different horizons of the rock.

Garnet varies in abundance from chip to chip. In two chips its forms equant subhedral crystals that are more-or-less uniformly distributed through the rock as small porphyroblasts. In another chip, garnet forms larger euhedral crystals with interstitial quartz in what appears to represent an alteration patch.

Quartz occurs mostly as small equant anhedral grains intergrown with fine-grained biotite through the matrix of the rock. Quartz forms coarser polycrystalline mosaics with coarse garnet in the alteration patch.

K-feldspar occurs in significant amount in one chip, where it forms small equant anhedral grains with quartz and biotite in the fine-grained matrix areas. The K-feldspar is associated with the drab green biotite.

A porphyroblastic phase built equant euhedral crystals ~0.4–0.6 mm in size. They have suffered complete retrogressive replacement by fine sericite and minor green chlorite. It is possible they were cordierite porphyroblasts, as supported by their equant euhedral crystal forms, the type of alteration products, and the meta-pelitic environment.

INTERPRETATION:

This sample represents a pelitic sediment in which indistinct compositional layering was present. The rock has suffered complete recrystallisation in response to a medium-grade regional metamorphic event. This generated the new porphyroblastic assemblage of biotite (green or brown) + garnet + ?cordierite + quartz ± K-feldspar. Green biotite formed in K-feldspar-bearing horizons, and brown biotite in garnet–?cordierite-bearing horizons. ?Cordierite suffered complete retrogressive replacement by sericite + chlorite during a later, lower-grade event.

***Client query**: Is this an ex-amphibolite? What comprises spots (garnet + scapolite + chlorite?) and how does this relate to the Fe-metasomatism?*

Response: No, the rock did not form as an amphibolite. It formed as a pelitic (ie fine-grained argillaceous) sediment, and suffered metamorphic recrystallisation to a regular pelitic assemblage of medium metamorphic grade (lower amphibolite facies). The spots probably formed as ?cordierite porphyroblasts, but have suffered complete retrogressive alteration to sericite + chlorite, so identification of the precursor phase is tentative. The mineral assemblage can be explained by metamorphic recrystallisation of a precursor pelitic sediment, without recourse to metasomatism. However, coarser-grained patches of garnet + quartz appear to represent local alteration patches.

SAMPLE : DWR00003, 96–98m (Olary Block)

SECTION NO. : DWR00003, 96–98m

HAND SPECIMEN : The drill chip sample is composed of several centimetre-sized rock chips which appear to represent fine-grained equigranular massive greenish rock.

The section offcut responds positively to the hand magnet, suggesting magnetite is present.

The section offcut accepted a weak yellow stain for K-feldspar in felsic grains in some chips. Note that this is a 'pseudo-positive' stain for K-feldspar: it has been accepted by the finely sericite-altered plagioclase crystal sites, and does not represent K-feldspar.

ROCK NAMES : **Sericite-retrogressed, actinolite meta-dolerite**

Scapolite-metasomatised meta-dolerite

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
Sericite-retrogressed, actinolite meta-dolerite		
Opaques	2	Relict igneous
Actinolite (incl. trace fine opaques)	40	Metamorphic
Albite	5	Metamorphic
Sericite	53	Retrogressive alteration (after plagioclase)
Scapolite-metasomatised meta-dolerite		
Scapolite	57	Metamorphic alteration (after plagioclase)
Actinolite	35	Metamorphic
Opaques (incl. ?magnetite)	8	Metamorphic alteration
Sphene	Tr	Metamorphic

In thin section, this sample displays a partly-preserved doleritic igneous texture in all chips, but two different types of alteration are evident.

Sericite-retrogressed, actinolite meta-dolerite represents least-altered rock in the sample. It retains its primary massive doleritic igneous texture, but randomly oriented plagioclase prisms ~0.8 mm long have suffered replacement in cores by very fine massive sericite. Thin albitic rims are preserved around all crystals.

Pleochroic pale green actinolite occurs as equant subhedral crystals, apparently as replacements pseudomorphous after precursor primary pyroxene but no pyroxene is preserved. Minute opaque granules (probably alteration magnetite) are sprinkled through the actinolite.

Larger opaque grains of blocky to lobate shape are sparsely scattered through the rock. They appear to represent relict primary accessory Fe–Ti oxide crystals.

Scapolite-metasomatised meta-dolerite represents the most strongly altered variant in the sample. It faintly retains its primary massive doleritic igneous texture, but randomly oriented plagioclase crystals have suffered complete replacement by optically continuous scapolite crystals which locally have destroyed the primary texture. Interstitial pleochroic pale green actinolite appears to represent altered sites of primary pyroxene crystals. Irregularly disseminated through the rock are small euhedral crystals and aggregates of opaques (probably mainly magnetite) with associated turbid dark pleochroic sphene aggregates.

INTERPRETATION:

This sample represents a doleritic intrusive basic igneous rock. When originally emplaced, it crystallised to the massive assemblage of plagioclase + ?pyroxene + accessory Fe–Ti oxide crystals. Subsequent metamorphism caused replacement by the assemblage actinolite + minor magnetite, but more strongly altered variants were replaced by scapolite + actinolite + opaques (magnetite) + sphene.

Subsequent retrogressive alteration generated very fine dense mats of sericite after relict plagioclase in the least-altered dolerite.

***Client comment**: Albitic metasediment (retrograde altered).*

Response: The rock formed as an intrusive dolerite, not as a sediment. It suffered regional metamorphism, and locally suffered strong metasomatic alteration to scapolite + actinolite + opaques (magnetite). The sericite after plagioclase in least-altered dolerite is considered to have formed as a retrograde event.

SAMPLE : DWR00005, 112–114m (Olary Block)

SECTION NO. : DWR00005, 112–114m

HAND SPECIMEN : The drill chip sample is composed of four rock chips of centimetre size, all of which appear to represent massive to weakly foliated grey rock with scattered large waxy yellow–brown porphyroblastic crystals (staurolite).

The section offcut fails to respond to the hand magnet, suggesting magnetite is absent.

The section offcut failed to accept the stain for K-feldspar, suggesting it is absent.

ROCK NAME : **Staurolite–andalusite–cordierite schist (porphyroblastic meta-pelite)**

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
Quartz	45	Metamorphic
Andalusite	30	Metamorphic
Staurolite	10	Metamorphic
Cordierite	5	Metamorphic
Biotite	5	Metamorphic
Opaques (?graphite)	2	Metamorphic
Opaques (?ilmenite)	Tr	Metamorphic
Sericite/muscovite	<1	Retrogressive alteration
Chlorite	1	Retrogressive alteration

In thin section, this sample displays a coarsely porphyroblastic metamorphic texture with variable weak to strong foliation in finer-grained biotite-bearing matrix.

Quartz is moderately abundant, occurring as small equant anhedral grains ~0.1 mm in size. Locally the grains are elongated in the trace of a strong foliation, and larger anhedral grains are developed in coarser-grained areas.

Andalusite is abundant, forming large anhedral porphyroblasts many millimetres in size. They display the characteristic optical features of this phase: colourless to weakly pleochroic in pale pinks, high relief, low birefringence, and extinction parallel to cleavage. Margins of some grains display partial replacement by optically continuous but ragged sericite/muscovite patches.

Staurolite forms large euhedral pleochroic yellow crystals and spongy grains intergrown with quartz. The phase displays its characteristic high relief and low anomalous interference colours. Some crystals have suffered partial to complete pseudomorphous replacement by very fine-grained sericite mats.

Cordierite occurs in minor amount as anhedral grains up to several millimetres in size. Most grains are somewhat dusty from incipient sericitic alteration, and some larger better-formed muscovite flakes have partly replaced some grains. The cordierite is readily distinguished from quartz by its incipient alteration, and from andalusite by the much higher relief and parallel extinction of the latter.

Biotite builds well-shaped flakes, pleochroic from reddish brown to very pale yellow. They display variable degrees of preferred orientation (foliation), with stronger foliation in areas that have accepted higher degrees of strain. Locally, some biotite flakes have suffered optically continuous replacement by retrogressive chlorite.

Two types of opaques are distinguished:

i) Minute opaque flecks (probably graphite) are concentrated in loose patches through the finer-grained areas of quartz in the matrix areas of the rock. Coarser-grained quartz areas are free of ?graphite, suggesting that these coarser areas have formed by a local metamorphic segregation process.

ii) A trace amount of opaque material (probably ilmenite) forms well-shaped lath-like crystals sparsely scattered through the rock.

INTERPRETATION:

This sample is considered to represent a pelitic (fine-grained argillaceous) sediment, which has suffered complete recrystallisation in response to a regional metamorphic event in the amphibolite facies. This generated the variably foliated and porphyroblastic assemblage of quartz + andalusite + staurolite + cordierite + biotite + minor opaques (?graphite, ?ilmenite). Weak retrogressive alteration generated some sericite after cordierite and staurolite, and some chlorite after biotite.

SAMPLE : DWR00008, 124–126m (Olary Block)

SECTION NO. : DWR00008, 124–126m

HAND SPECIMEN : The drill chip sample is composed of numerous angular rock chips several centimetres in size. All appear to represent fine-grained grey to greenish grey rock that is cut by thin randomly oriented fractures filled by dark material.

The section offcut accepted the stain for K-feldspar, but only as small spots in the thin fracture fillings.

The section offcut responds weakly to the hand magnet, suggesting minor magnetite is present.

ROCK NAMES : **Epidote veined schistose meta-semipelite**

Epidote veined meta-calc-silicate rock (meta-sediment)

PETROGRAPHY :

A visual estimate of the modal mineral abundances gives the following:

Mineral	**Vol.%**	**Origin**
Epidote veined schistose meta-semipelite		
Plagioclase	56	Metamorphic
Muscovite	25	Metamorphic
Epidote	10	Metamorphic
Quartz	5	Metamorphic
Biotite (green)	3	Metamorphic
Opaques (?magnetite)	1	Metamorphic
Sphene	Tr	Metamorphic
Epidote veined meta-calc-silicate rock (meta-sediment)		
Plagioclase	62	Metamorphic
Epidote	30	Metamorphic
Quartz	5	Metamorphic
Biotite	3	Metamorphic
Sphene	Tr	Metamorphic
Epidote–biotite–K-feldspar fracture fillings		
Epidote	55	Fracture fillings
Biotite (green)	40	Fracture fillings
K-feldspar (microcline)	5	Fracture fillings

In thin section, this sample displays a fine-grained granoblastic metamorphic texture in all rock chips, but two types of mineral assemblages are distinguished.

Schistose meta-semipelite is composed of a more-or-less equigranular mosaic of small plagioclase grains, aligned muscovite flakes that define a foliation, ragged pleochroic yellow epidote grains, minor small quartz grains, and poorly-shaped small flakes of pleochroic green biotite. Scattered sparsely through the rock are

small equant opaque crystals of cubic morphology (probably magnetite), and sphene occurs as small aggregates of tiny granules.

Meta-calc-silicate rock is composed of abundant small anhedral plagioclase grains and moderately abundant ragged grains of pleochroic pale yellow epidote. Small amounts of clear quartz, ragged green biotite flakes, and accessory sphene grains are also disseminated through the rock.

Epidote-rich veins with random orientation cut both rock types. They are filled mainly by pleochroic yellow epidote which forms larger subhedral crystals and finer-grained massive aggregates. Biotite forms small to large flakes that are pleochroic from dark green to colourless, and readily distinguished from chlorite by its relatively high birefringence (compare very low anomalous birefringence of chlorites). K-feldspar occurs in minor and variable amount as subhedral crystals.

INTERPRETATION:

This sample is considered to represent layered sedimentary rocks of variable semi-pelitic to calc-silicate composition. In response to a regional metamorphic event, the sediments recrystallised to assemblages that reflect their primary bulk compositions: semi-pelites recrystallised to phyllosilicate-bearing assemblages of plagioclase + muscovite + epidote + quartz + biotite + trace opaques (?magnetite) + sphene; calc-silicate layers recrystallised to plagioclase + epidote + minor quartz + biotite + sphene. The rock body suffered brittle fracturing, which encouraged circulation of metamorphic fluids and deposition of epidote + biotite (green) + K-feldspar as thin space-filling deposits. The green pleochroic scheme of the biotite indicates a strongly oxidised (Fe^{3+}-rich) composition, indicating that the fluid from which it crystallised was oxidised.

***Client query**: Is the disseminated magnetite metamorphic or weak alteration?*

The **response** to this question is not simple, because it requires clarification of the terms 'metamorphic' and 'alteration', and requires the ability to distinguish between the effects of those processes.

In the earth sciences, 'metamorphism' is commonly taken to imply isochemical modification (no chemical change) of rocks in response to changes in pressure or temperature or both. In contrast, 'alteration' is commonly taken to imply significant chemical modification of the rock body (ie allochemical metamorphism or metasomatic alteration). Importantly, fluids are usually required to effect metamorphic and alteration modifications of rocks. The main cause for the difference between metamorphic and alteration effects is the fluid/rock ratio: small amounts of fluid and low fluid/rock ratios are involved in 'metamorphic' rocks, and high amounts of fluid and high fluid/rock ratios are required to cause significant alteration effects. The difference really is only one of degree, and it can therefore be difficult to distinguish 'metamorphic' rocks from 'altered rocks' that have suffered only a low intensity of alteration. This distinction is doubly difficult when small portions of rock are examined (eg drill chips), when the distribution of the mineralogy in the rock body is important in evaluating the processes that have modified the rock.

In order to determine whether a rock has suffered significant chemical modification, one must know the precursor bulk composition. This knowledge might come from physical observation of progressive alteration of a known rock type in the field or in drill core, or it can be inferred from specific geochemical rock characteristics (eg high primary Ni and Cr preserved in otherwise altered ultramafic rocks), or it can be inferred from petrography if the primary texture of a rock is preserved through selective alteration (see sample DWR00002, 170–172m as an example of K–Fe metasomatised meta-dolerite; sample DWR00003, 96–98m as an example of Na–Cl–CO_3–SO_4 metasomatised meta-dolerite).

These things said, in the present rock the magnetite appears to be texturally part of a single paragenetic assemblage. There is no evidence that it formed subsequent to the principal metamorphic assemblage. However, for the reasons explained above (small size of sample, lack of firm knowledge of precursor composition) it remains unclear as to what extent the primary rock has suffered chemical modification during the metamorphic event. The presence of fracture-filling deposits of epidote + biotite + K-feldspar confirms that the circulating metamorphic fluid contained solute species which at least included all of the elements in

these minerals (ie Ca, Fe, Mg, K, Al, Si, H_2O). It is possible, therefore, that these fluids chemically modified the rocks through which they flowed, but note that the minerals in the veins are also observed in the host rock. Therefore, the metamorphic fluids were essentially in equilibrium with the host rock, and this conclusion is supported by the complete absence of any selvedge alteration effects marginal to the fracture filling deposits.

In summary, it seems that the relatively small amount of magnetite in this sample probably reflects essentially isochemical metamorphism of the precursor rock. Other samples in this suite contain much more abundant magnetite which is considered to be more clearly of alteration (ie allochemical metamorphic or metasomatic) origin: eg disseminated and horizon-forming magnetite in meta-felsic sediments, and alteration magnetite in altered meta-dolerites.

APPENDIX 7

HERITAGE REPORT

BHP Minerals Deep Well Dam drill sites; Adnyamathanha Aboriginal Site Survey Report.

Conducted 28th - 30th April 2000.

Compiled by Michael Anerson

INTRODUCTION

Over the past two years an amicable relationship has existed between the Anderson/Adnyamathanha SC97/1 Native Title Determination Claim group and BHP Minerals.

The Claimant, Claimants Representatives, and BHP Minerals have in the past developed and operated under a protocol to ensure the protection and preservation of Adnyamathanha Sites, Stories, and Artifacts existing in areas of exploration interest. In short the practical working relationship has been mutually beneficial for both the objectives of BHP Minerals and the Native Title Claimant.

Recent trends have developed in South Australia as far as Native Title in general is concerned. As a consequence the for mentioned trends have caused consolidation of Adnyamathanha Native title claims. Consolidation of Native Title claimants may affect and or delay certain projects in the short term and the benefits of consolidation will become more evident in the medium to long term as all interested parties will in the future will only have to deal with one Native Title group. Unfortunately this drilling program has been affected.

The team consisted of Michael Anderson, Shayne Anderson, Enice Marsh (Elder) and Geraldine Anderson. The Site Survey Team are all members of Wartali-Owie Inc a core group within the Adnyamathanha Native Title Management Committee.[ANTMC] Wartali-Owie Inc is a Adnyamathnha Community group with one of it's main objectives being the preservation and protection Adnyamathanha sites and artifacts existing on traditionally handed down lands.

ACCESS TRACKS.

Each drill hole position had been previously identified with a survey peg. All existing station roads were utilised to get as close to the drill hole co-ordinates as possible. The tracks created by the survey team once they left the existing roads would later become the access tracks to the drill sites. It is expected that all vehicles associated with the drilling program adhere to the tracks created. The access tracks are drawn and identified on map attached.

While creating the access tracks the Survey Team surveyed about twenty metres either side of the vehicle and sometimes when appropriet disembarked from the vehicle to ensure that the access tracks were not going to adversely affect any artifacts. None of the access tracks created during this site survey will interfere with any sites or artifacts.

AREAS OF DRILLING ACTIVITY

It was agreed that each drill hole site would be surveyed on foot within a fifty metre radius from the survey peg indicating the actual position of the drill hole. It is expected that the drilling activity will be able to be carried out within a fifty metre radius of each drill hole.

All of the drill sites existed on low flat featureless country did not show any sign of yura's but areas that surrounded the areas of drilling activity would require further investigation as these areas provided more shelter and vegetation which would be more likely to support yura's.

No Adnyamathanha site/artifacts will be interfered with providing that all associated vehicles and equipment adhere to the access tracks indicated on the attached maps and all drilling and associated activities be confined to within fifty metres of each actual proposed drill site. The following are the list of drill sites and positions relevant to this particular Site Survey. Note that each drill hole may be easily found on the maps provided in this report.

THE SITE SURVEY TEAM.

Michael Anderson

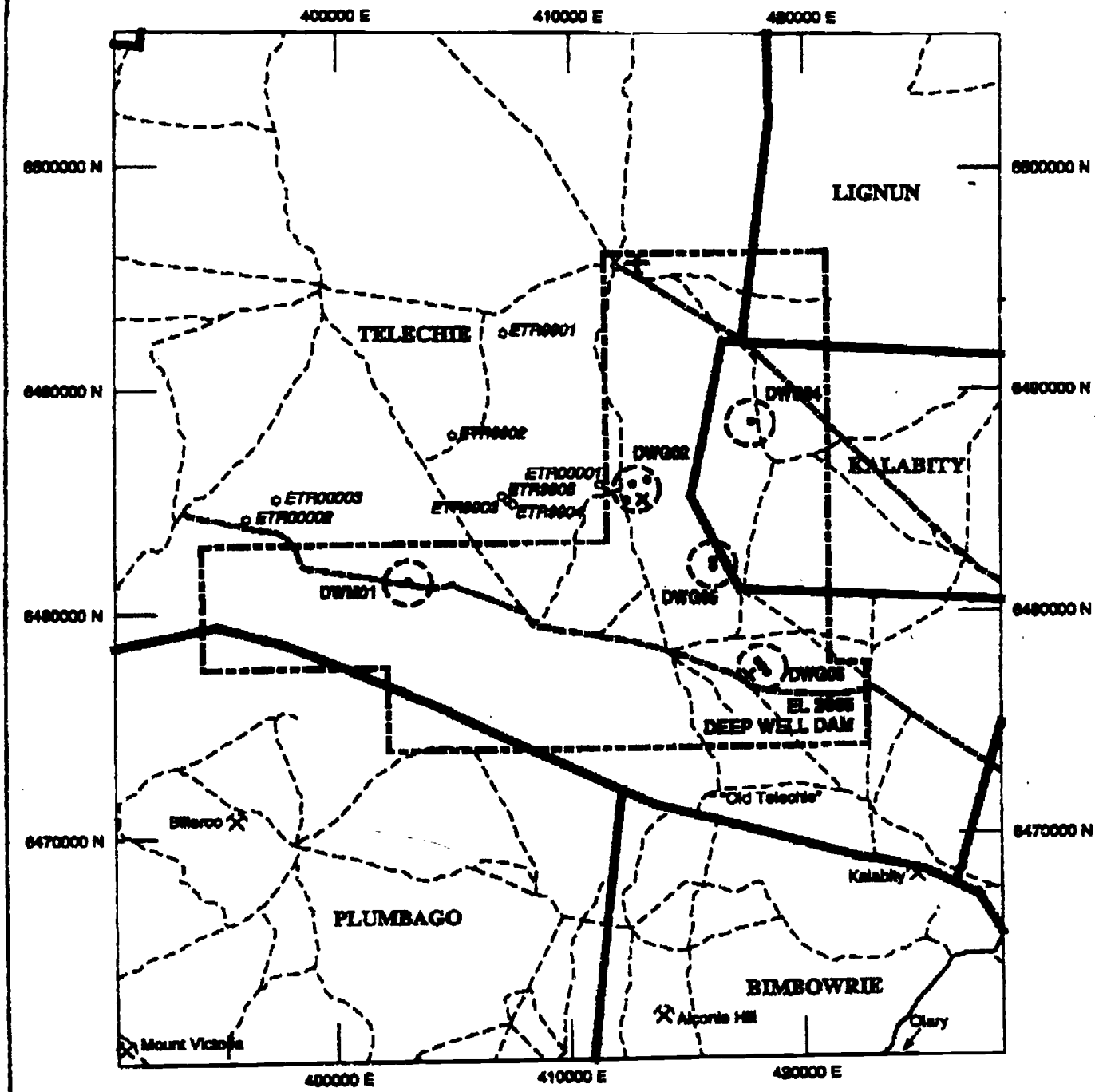
Shayne Anderson

Enice Marsh

Geraldine Anderson

IAN WALLACE 9/10/00

BHP Minerals representative [Print Name]



Prepared : RRM	BHP	Centre : Brisbane
Drawn : RRM	Minerals Discovery Group BHP World Minerals	Drawing No.: A4-2433
Date : April 2000	EL 2665 DEEP WELL DAM, SOUTH AUSTRALIA	FIGURE 1
	PROPOSED DRILL HOLE SITES	

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450000 mE

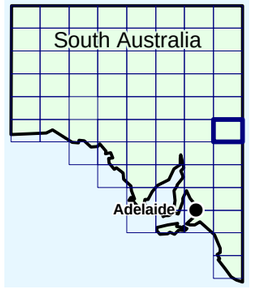
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6550000 mN

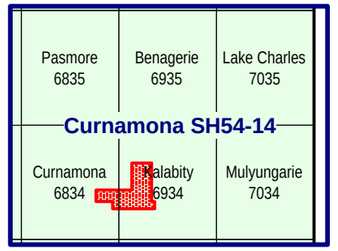
6500000 mN

LAKE FROME

STRZELECKI DESERT



INDEX to adjoining map sheets



100 000 & 250 000 map sheets

0 10 20 30 40

kilometres

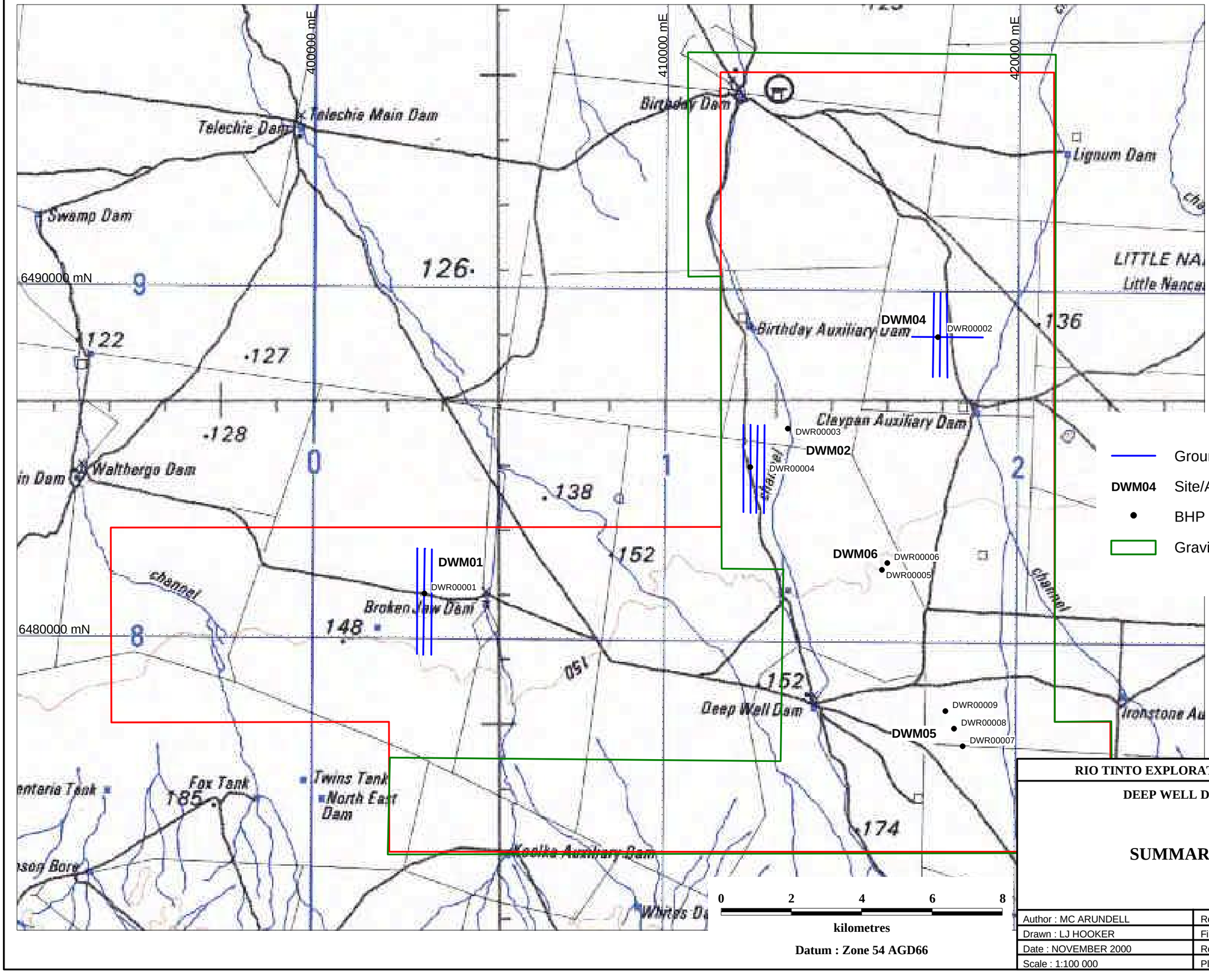
Datum : Zone 54 AGD66

RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

TENEMENT LOCATION PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : LJ HOOKER	File Name : 44430gen
Date : NOVEMBER 2000	Report No : 24620
Scale : 1:500 000	Plan No : WA44430p



RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

SUMMARY PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : LJ HOOKER	File Name : 44431gen
Date : NOVEMBER 2000	Report No : 24620
Scale : 1:100 000	Plan No : WA44431p

RIO TINTO

Rio Tinto Exploration Pty. Limited

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Annual Report for the Period 3rd November 2000 to 2nd November 2001 EL2665, Deep Well Dam, Curnamona SH54-14, South Australia

Exploration Report No. 25195

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	April 2002
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SUMMARY OF ACTIVITES

Exploration work carried out during the reporting period consisted of a detailed review of previous work to delineate new targets.

The following are conclusions drawn from this review.

- A series of gravity / magnetic targets have been delineated and ranked. A high ranking 2 mgal, 3km long gravity target (Target 9) is recommended for immediate drill testing. Two to three, wide spaced aircore drill traverses across the anomaly can effectively test the target for stratabound zinc mineralisation in the Pelite Suite.

- No significant mineralisation has been detected by previous exploration on EL2665.

- A review of the work completed by BHP indicates that the anomalous Cu-Au-Mo mineralisation intersected in drillhole DWR0002 appears to be associated with meta sediments ascribed to the geochemically anomalous Bimba stratigraphic position.

Total exploration expenditure for EL2665 for the period 3rd November 2000 to 30th November 2001 was $22,271.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies	EL2665_200111_01_review.pdf	pdf
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	25195 deep Well Dam.pdf	.pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)	WA44430.pdf (Tenement Location plan)	pdf
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	25195 Deep Well Dam V.pdf	.pdf

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Plan No.	Title	Scale
WA44430p	Tenement Location Plan	1:500 000

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No.	Title	File Name
1	Deep Well Dam (EL2665) Review	EL2665_200111_01_Review

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1 SUMMARY

This report documents work completed by Rio Tinto on EL2665 (Deep Well Dam) during the year of tenure 3rd November 2000 to 2nd November 2001.

Exploration work carried out during the reporting period consisted of a detailed review of previous work to delineate new targets.

The following are conclusions drawn from this review.

- A series of gravity / magnetic targets have been delineated and ranked. A high ranking 2 mgal, 3km long gravity target (Target 9) is recommended for immediate drill testing. Two to three, wide spaced aircore drill traverses across the anomaly can effectively test the target for stratabound zinc mineralisation in the Pelite Suite.

- No significant mineralisation has been detected by previous exploration on EL2665.

- A review of the work completed by BHP indicates that the anomalous Cu-Au-Mo mineralisation intersected in drillhole DWR0002 appears to be associated with meta sediments ascribed to the geochemically anomalous Bimba stratigraphic position.

Total exploration expenditure for EL2665 for the period 3rd November 2000 to 30th November, 2001 was $22,271.

Table 1: – Activity Summary for Deep Well Dam, 2001 work program.

Activity	Quantity	Details	Results
Exploration Review		Detailed review of all previous exploration	High ranking gravity target delineated

2 INTRODUCTION

Exploration Licence 2665 Deep Well Dam, comprising 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona (SH54-14) 1:250 000 sheet (Plan WA44430p). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL2665 was granted to Rio Tinto Exploration Pty. Limited (Rio Tinto) on 3rd November 1999 upon renewal of EL 2016 at the end of its five-year term. EL 2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited.

EL2665 Deep Well Dam formed part of Rio Tinto's Curnamona Zinc Project located within the Northern Olary Domain of the Curnamona Province.

Rio Tinto is exploring EL2665 for base metal mineralisation of sufficient size to meet its corporate objectives. Potential mineralisation styles include stratabound/ stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite and stratabound massive sulphide Cu/Zn/Co/Mn in the Bimba Formation.

BHP Minerals Pty Ltd (BHPM) assumed management of the tenement from 30th December 1999 until 7th August 2000.

This report details all exploration work conducted by Rio Tinto for the year of tenure 3rd November 2000 to 2nd November 2001.

3 CONCLUSIONS AND RECOMMENDATIONS

A series of gravity / magnetic targets have been delineated and ranked. A high ranking 2 mgal, 3km long gravity target is recommended for immediate drill testing. Two to three, wide spaced aircore drill traverses across the anomaly are recommended to test the target for stratabound zinc mineralisation in the Pelite Suite.

4 REGIONAL GEOLOGY

The following synopsis of the regional geology and mineralisation is modified from Parkinson (1997b).

EL2665 Deep Well Dam is situated in the southern portion of the Palaeoproterozoic to Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain of the Curnamona Craton.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain - the two Domains forming the Willyama Inlier (e.g. Laing, 1996; Clarke et al., 1986; Willis et al., 1983).

The Willyama Supergroup is interpreted to have been deposited within an ~1780-1680 Ma intracratonic rift and rift-platform basin. Geochronology of rock type emplacement, intrusive events, metamorphism and deformation are discussed in Clarke et al. (1986) and a further summary of the Olary Domain geology is provided by Plimer (1996).

4.1 Stratigraphy

Metamorphic lithologies in the Olary Block have been divided into five major rock suites (Clarke et al., 1986). These include:

Composite Gneiss Suite - basal unit consisting mostly of coarse-grained and migmatitic gneiss grading to massive leucocratic granitoids with large areas of anatexis.

Quartzofeldspathic Suite ("QFS") - This forms a significant component of the exposed Olary Block rock types and is considered equivalent to the Thackaringa Group in the Broken Hill Block. The lower portions of the suite include massive-layered albite-quartz rocks ("Lower Albite") interpreted as felsic volcanics or volcaniclastic sediments and co-magmatic A-type granitic intrusions. The middle portion of the suite includes mostly psammopelitic and pelitic schist ("Middle Schist") and composite gneiss. Uppermost are finely laminated, often magnetic, albite-quartz rocks ("Upper Albite"). This unit is interpreted to occur as NNE-trending tight anticlines in the eastern portion of EL2665.

Calc-silicate Suite - possibly equivalent to the Ettlewood calc-silicate member of the Broken Hill Domain and laterally and vertically gradational from the upper portions of the Quartzofeldspathic Suite. Rock types in this suite are characterised by quartzofeldspathic rocks with abundant calc-silicate minerals grading to well-laminated calc-silicate rocks and strongly hydrothermal altered albite-actinolite-diopside altered breccias with locally important

sulphide mineralisation.

Bimba Suite - This suite forms an extensive marker horizon in the Olary District consisting of psammopelitic and pelitic schist grading to calc-silicate rocks, carbonate-rich rocks, quartz-albite rocks and local iron formations. Rock types in the Bimba Suite are typically laminated and strongly sulphidic with sulphide veins and occasional massive sulphide, which are commonly represented by gossan at surface. The Bimba Suite typically overlies a prominent magnetic marker horizon at the top of the Calc-silicate Suite/Upper Albite and is interpreted to occur as a series of tight NNE-trending synforms throughout EL2665.

Pelite Suite - The upper-most suite in the Olary Block, the Pelite Suite is characterised by pelitic-psammopelitic and psammitic sediments forming tight NNE-trending synforms throughout EL2665.

The gradational contact between the Pelite Suite and underlying Bimba Suite may represent a regional unconformity (e.g. Plimer, 1996; Ashley et al., 1995). The basal parts of the Pelite Suite are commonly strongly graphitic, and contain distinctive chiastolites ± pyrrhotite. In addition, in the basal layers, manganese enriched zones, garnetiferous beds (grading to garnet sandstone) and tourmaline rich rocks are recorded.

A recent tectono-stratigraphic synthesis by Laing (1996) has introduced several new stratigraphic subdivisions and an alternative stratigraphic nomenclature. This interpretation subdivides the Olary Block in to several structural domains, each with contrasting stratigraphic assemblages, which broadly correlate. This suggests many of the domain-boundary faults were also important features of the early basin architecture, potentially important for controlling mineralisation and hydrothermal alteration.

4.2 Granites

At least three granite suites are recognised in the Olary Block.

The oldest granitoid suite occurs within the lower part of the Quartzofelspathic Suite. These have A-type affinity and are probably co-magmatic with interpreted felsic volcanics of the "Lower Albite". Dating zircons has returned ages of 1703±6 Ma, 1701±8 Ma and 1717±14 Ma (Cook et al., 1994).

A volumetrically minor I-type granite suite returned zircon ages of 1629±12 Ma and 1641±11 Ma (Cook et al., 1994). This suite is potentially genetically associated with Cu-Au mineralisation in the contact aureoles to these granites.

A third suite is generally referred to as regional S-type granitoids. These are typically leucocratic massive to foliated S-type or highly fractionated I-type two-mica granitoids. These are common in the Olary Block and have returned zircon dates of ~1590 Ma. Pegmatites associated with these granites are locally associated with minor economic concentrations of uranium, beryl, feldspars, muscovite and columbite-tantalite (Plimer, 1996) and possibly associated with Cu-Au mineralisation in the northern and northeast portions of the Olary Block.

S-type sodic granites, locally associated with U-Th mineralisation, occur in the northwest portion of the Olary Block with ages of ~1580 Ma (Cook et al., 1994). More mafic granitoids also occur in the north west of the Olary Block (Plimer, 1996).

Delamerian granitoids possibly intrude the Olary Block but are unconfirmed.

4.3 Structure & Metamorphism

The area is characterised by intense multiple deformation and metamorphism which has significantly disturbed primary stratigraphy. Maximum metamorphic grade in the tenement area is upper greenschist to amphibolite facies.

Two major periods of deformation have been recognised in the Olary Block associated with the Paleoproterozoic Olarian Orogeny and Cambro-Ordovician Delamerian Orogeny (e.g. Clarke et al., 1986; Flint & Parker, 1993).

OD1, OD2 and OD3 are associated with the Olarian Orogeny at ~1590 ± 20 Ma (Plimer, 1996). These probably represent a progressive deformation style characterised by nappe development, refolding and prograde metamorphism during OD1 & OD2 and further refolding and extensive retrograde shearing and metamorphism during OD3. However, a possible younger age of 1500 ± 20 Ma for OD3 is referred to in Plimer (1996). Peak metamorphism in the Broken Hill Block has been dated at 1670-1600 Ma and is coeval with the I-type granite suite (Flint & Parker, 1993). However, most of the foliated granite gneiss, migmatite, pegmatite and regional granitoids in the Olary Block are probably closely related to OD1 and OD2 (op cit.).

Two phases of deformation and fold development are associated with the Delamerian Orogeny (DD1 and DD2) with dates ranging from 450-550 Ma. Significant metal migration probably occurred during development of the rift-basin, burial and diagenesis and subsequently during the Olarian Orogeny. However, locally significant remobilisation of ore metals and development of structurally controlled base and precious metal mineralisation

also occurred during Delamerian deformation.

4.4 Mineralisation

Mineralisation in the Olary Block is discussed in Cook & Ashley (1992) and Ashley et al. (1994). Numerous small copper and copper-gold, minor zinc-lead-silver and uranium workings/prospects occur throughout the Olary Block.

Extensive epigenetic/fracture controlled chalcopyrite with minor gold mineralisation has been identified in brecciated magnetite-albite rocks in the upper part of the Quartzofeldspathic Suite at Waukaloo and in the Portia area.

The upper parts of the Calc-silicate Suite are associated with regionally anomalous low-grade zinc mineralisation over stratigraphic intervals up to 100 m thick (Flint & Parker, 1993). This suite typically exhibits regional-scale alteration including widespread albitisation, iron/calc-silicate alteration ± magnetite.

The Bimba Suite has been the focus of previous exploration activity. This unit is characterised by regional/strike extensive elevated base geochemistry and gossans. The Bimba Suite hosts Cu-Co mineralisation at Mt Howden and Cu-Zn-Ba (Pb-Ag) mineralisation at the Old Boolcamata-Blue Dam area. Copper and minor zinc mineralisation at the Telechie and Telechie South prospects are also interpreted to occur at the Bimba stratigraphic position.

Exploration has identified elevated base metal geochemistry in the Pelite Suite at a number of localities. At Hunter's Dam prospect, drilling has encountered stratabound zinc-lead mineralisation (106.9m @ 0.57% Zn, 0.12% Pb) within psammopelitic and pelitic sediments of the Pelite Suite and Bimba Suite.

Anomalous base metal values occur within Pelite Suite at Birthday Dam Prospect and the Bimba Suite at Lignum South Prospect with EL2665 Deep Well Dam.

A variety of unusual quartz-magnetite-garnet-apatite banded iron formations and Mn-rich garnet-quartz rocks of probable hydrothermal origin have also been identified in the lower parts of the Pelite Suite (Lottermoser et al., 1994).

Barium and potassium anomalous horizons are also noted associated with variably magnetic horizons within the Quartzofeldspathic Suite and the Bimba Suite.

Due to subdued/poor exposure, the Pelite Suite has received little exploration attention. This

suite is regarded as highly prospective for stratabound/sediment-hosted base metal mineralisation, akin to the Mt. Isa and Century Zn (Ag-Pb) deposits in the Mt. Isa Inlier.

Other mineralisation styles recognised within the Olary Block include:

- Copper-gold mineralisation associated with iron formations similar to deposits in the Mt. Isa Inlier (e.g. Starra) or in structurally-focused iron-rich alteration systems in the contact aureole around certain granites. Large disseminated/stratabound copper and/or gold deposits are also possible.

- Supergene (enriched) copper-gold mineralisation in areas of deep weathering over large areas of low-grade sulphide copper-gold mineralised basement (Portia-style).

- U, Th and REE mineralisation in veins, breccias and stockworks associated with granite and pegmatite (Plimer, 1996).

- Uranium mineralisation associated with a redox interface within Eocene Eyre Formation fluviatile sands at Honeymoon, East Kalkaroo and Yarramba prospects.

5 PREVIOUS EXPLORATION

5.1 Exploration Prior to EL2665

Previous exploration undertaken within the area EL2665 is reviewed in Hawke (1999).

In summary, previous exploration in the area of EL2665 was undertaken by CSR/Placer as part of EL 1352 Strathearn (later EL 1751). Exploration programs were primarily focussed on stratiform Cu-Au and Zn-Pb mineralisation within the "Bimba Formation" and "Upper Albite" stratigraphic sequences.

Target areas were selected from aeromagnetics with limited follow-up using ground electrical geophysics and RC and diamond drilling. Best results were 4m @ 0.21% Zn in BD16 at Birthday Dam prospect (Placer, 1990 and 1994).

5.2 Exploration during Current Tenure

1st year of tenure (2/9/94 - 1/9/95) - CRAE Report No. 21178.

- 100m line-spaced airborne magnetic and radiometric survey

- Regional helicopter-supported, high-iron lag sampling (91 samples @ 1 per 4 km^2). An area of Au-Pb-Zn anomalism was identified in the north of the licence area and required

follow up.

- CSAMT (2.5 line km). No significant anomalies were identified.
- 7.2 line km of In-Loop TEM at Deep Well Dam Prospect and Claypan South Prospect.
- 0.6 line km of 100m dipole-dipole IP. No significant anomalies were detected.
- Three RAB holes and ground magnetic traverses over a remanent-magnetised anomaly. Up to 700ppm Cu identified in Pelites adjacent to a (?)mafic intrusion which was interpreted as the source of the magnetic anomaly.

2nd year of tenure (2/9/95 - 1/9/96) - CRAE Report No. 23009

- Geocoded Landsat TM data purchased over EL 2016.
- TEM traverses (four lines for 6.2 line km) at Claypan North, Broken Jaw and Lignum West prospects. None of the traverses recorded any late time anomalies.

3rd year of tenure (2/9/96 - 1/9/97) – Rio Tinto Report No. 23702

- A Pelite Suite study was undertaken to compare the Zn prospective stratigraphic succession with other major zinc provinces (particularly the Mt Isa Inlier). Initial results suggest the lower Pelite Suite to be a good potential to host stratiform Zn mineralisation.
- Geochemical data from open file reports were captured.

4th year of tenure (2/9/97 - 1/9/98) – Rio Tinto Report No. 24124

- Geological interpretation of airborne magnetics and regional gravity data over the eastern portion of EL 2016 highlighted the presence of Bimba and Pelite Suite stratigraphy preserved in a series of NNE-trending isoclinal synforms beneath 40-100 metres of Recent cover.
- One line of detailed gravity and TEM was undertaken in the northeastern portion of the EL.
- No significant targets were identified. However, previously tested, base metal anomalous Lower Pelite Suite meta-sediments were identified as a moderate conductor with a low gravity and magnetic response.

5th year of tenure (2/9/98 - 1/9/99) – Rio Tinto Report No. 24185

- No field work was undertaken during the reporting period.
- Work activities were limited to the on-going office-based assessment of Curnamona Project data pertinent to EL 2016.

6th year of tenure (3/11/99 - 2/11/2000) – Rio Tinto Report No. 24620

- Exploration work was carried out by BHPM and consisted of an assessment of the regional aeromagnetic and gravity data, detailed gravity surveys, ground magnetic surveys, RC drilling and petrological assessment of drill chips.
- Nine RC percussion holes (1594m) were drilled to test a number of coincident gravity-magnetic or stand-alone gravity and/or magnetic targets for Broken Hill Type Ag-Pb-Zn or Iron-Oxide Copper Gold (IOCG) type mineralisation. Targets were defined by aeromagnetics and regional (250m x 500m) gravity surveys with high-priority targets detailed by ground magnetic traverses and closely spaced gravity stations.
- Overall drilling results were disappointing. Intense K-Fe metasomatised metasediments intersected in the holes are non- to weakly-mineralised. The limited areal extent of the associated magnetic-gravity anomalies, inferred low sulfide fluids and lack of mineralisation significantly downgrades the area. Consequently BHPM decided not to proceed with further work.

6 WORK COMPLETED FOR THE PERIOD ENDING 2ND NOVEMBER 2001

Exploration work carried out on the Deep Well Dam project during the reporting period consisted of a detailed review of previous work to delineate new targets.

The following are the conclusions from this review. The complete report is attached as Appendix 1.

- A series of gravity / magnetic targets have been delineated and ranked. A high ranking 2 mgal, 3km long gravity target (Target 9) is recommended for immediate drill testing. Two to three, wide spaced aircore drill traverses across the anomaly can effectively test the target for stratabound zinc mineralisation in the Pelite Suite.
- No significant mineralisation has been detected by previous exploration on EL2665.

- A review of the work completed by BHP indicates that the anomalous Cu-Au-Mo mineralisation intersected in drillhole DWR0002 appears to be associated with meta sediments ascribed to the geochemically anomalous Bimba stratigraphic position.

7 ENVIRONMENTAL PROTECTION AND REHABILITATION

Nil to report.

8 EXPENDITURE STATEMENT

Expenditure for EL2665 "Deep Well Dam" for the period 3rd November 2000 to 30th November 2001. Note expenditure has been reported to the nearest accounting period.

Table 2: - Expenditure for EL2665 period 3rd November 2000 to 30th November 2001

	$
Drilling	-
Contract Exploration Costs	1,337
Laboratory	-
Tenement Costs	1,270
Rent and Property	832
Payroll & Benefits	13,167
Field and Transport	1,697
Travel and Accommodation	166
Computer Services	521
Sundry Professional Services	217
General Office Supplies	204
Other	
Indirect Costs	2859
Total	**$22,271**

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LOCATION

Curnamona	SH5415	1:250,000
Mulyungarie	7034	1:100,000

KEYWORDS

Bimba Suite, Copper, Curnamona Province, EL2665, Deep Well Dam, Geophysical Interpretation, Olary Domain, Pelite Suite, Proterozoic, Stratabound, Stratiform, Willyama Inlier, Zinc.

APPENDIX 1

Deep Well Dam (EL2665) Review

EL2665_200111_01_Review.pdf

RIO TINTO

Memorandum

To: **Dave Palmer**

Copy:

From: Mark Arundell & Todd Grant

Date: 3/10/2001 File: 2.1 M1369MCA01

Deep Well Dam (EL 2665) Review

Conclusions & Recommendations

- A series of gravity / magnetic targets have been delineated and ranked. Target 9 stands out as the highest ranking and is recommended for drill testing. The 2mgal gravity anomaly is at least 3km long and can be tested effectively with two to three, wide spaced aircore traverses.
- No significant mineralisation has been detected by previous exploration on EL 2665
- A review of the work completed by BHP indicates that anomalous Cu-Au-Mo mineralisation intersected in drillhole DWR0002 appears to be associated with the Bimba position.

Previous Work Completed

The following work has been completed by CRAE / Rio Tinto on the Deep Well Dam tenement since it was granted on 2nd September, 1994 as EL 2016

Annual Report for the Period ended 1st September 1995

- Airborne magnetic & radiometric survey (100m line spacing) over the entire tenement
- Regional high-iron lag sampling over the entire tenement (91 samples)
- Regional stream sediment sampling in the southern part of the tenement (4 samples)
- Selected traverses of IP, CSAMT and ground magnetics
- In-loop TEM at Deep Well Dam and Claypan South prospects
- Ground magnetics and 3 RAB drillholes to test a remanently magnetised aeromagnetic anomaly

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Second Annual Report for the Period ended 1st September 1996

- Moving loop TEM traverses at Claypan North, Broken Jaw and Lignum West prospects

Third Annual Report for the Period ended 1st September 1997

- No field work
- Exploration model for stratiform mineralisation in the upper portions of the Willyama Supergroup has been developed
- Magnetic images produced and geochemical data compiled

Fourth Annual Report for the Period ended 1st September 1998

- Data review of previous exploration
- Interpretation of regional geophysics
- TEM, ground magnetics and gravity data were acquired to test the prospective lower Pelite and Bimba horizon

Fifth Annual Report for the Period ended 1st September 1998

- No field work

Anomalous results from these programs include :

- Elevated Cu (700ppm) in pelites adjacent to a mafic ?intrusion in the RAB drilling.
- The Birthday Dam prospect (previously drilled by CSR) was detected as a moderate conductor with a low gravity and magnetic response.

BHP entered into an agreement to explore EL 2665 (formerly 2016) in December 1999. The following work has been completed by BHP on the Deep Well Dam tenement for the period to 7th August, 2000.

- Gravity survey over the eastern half of the tenement (250m X 500m stn spacing)
- Ground magnetic surveys and traverses
- Nine RC percussion drillholes to test a number of co-incident gravity-magnetic or stand-alone gravity and magnetic targets.
- Petrological assessment of drill chips.

Drilling results were disappointing. No significant mineralisation was intersected. Intense K-Fe metasomatised metasediments intersected in drill holes DWR00001 & DWR00002 were non- to weakly mineralised.

Drillhole DWR00001 is reported as having intersected a highly magnetic granitoid from 120m downhole. Petrology would tend to disagree – an Fe-altered (magnetic) meta-sediment is described from this interval. There is no explanation of the discrepancy.

Drillhole DWR00002 intersected 18m @ 0.19ppm Au, 890ppm Cu & 254ppm Mo from 144m downhole. Mineralisation is reported to be associated with Fe-(Na/K) metasomatised quartzofeldspathic metasediments.

Work Conducted for this Review

A review of the airborne magnetic and ground gravity was undertaken. Emphasis was placed initially on identifying "discrete" non stratigraphic co-incident gravity and magnetic highs (IOCG targets). However, the highest ranking feature, Target 9, is a long, non-magnetic, stratiform gravity high located within the Pelite Suite sequence.

The series of potential targets identified in this review are ranked below and are displayed as an overview in Figure 1, which shows airborne magnetic data overlain by contours of BHP gravity data. Note Targets 1-6 have been identified using the BHP gravity data (500m x 250m stations) and Targets 7-8, falling outside the BHP gravity coverage, have been identified using the AGSO gravity data (2km x 1km).

Ranking

High	9
Medium	1, 7
Low	2, 3, 4
Very Low	5, 6, 8

1) Co-incident gravity / magnetic anomaly. Appears on TMI mag as stratigraphic but 1VD anomaly appears to be discrete

2) Co-incident gravity / magnetic anomaly. This target has been tested by drillhole DWR00002. Given the anomalous mineralisation intersected, another test deeper into this system may be warranted. A brief analysis of the downhole geochemistry for DWR00002 was undertaken (Figure 2). Anomalous Cu, Au and Mo mineralisation is associated with increased Fe, Co and decreased K, Ba, Ti, Al, Rb. Below the mineralised zone, Fe is significantly elevated indicating that the mineralisation occurs on the contact of K/Na metasediment with an ironstone unit (?Bimba).

3) Co-incident gravity / magnetic anomaly. Probably stratigraphic associated with a folding in the Middle Schist

4) Co-incident gravity / magnetic anomaly. Target size is small, magnetic anomaly is not intense

5) Co-incident gravity / magnetic anomaly. Located on edge of gravity survey – may not be a real high, probably stratigraphic in Bimba

6) Co-incident gravity / magnetic anomaly. Magnetic anomaly appears stratigraphic and is relatively subdued, located on edge of gravity survey – may not be a real high

7) Co-incident gravity / magnetic anomaly. Moderate intensity magnetic anomaly. Adjacent RAB hole drilled into remnantly magnetised magnetic low intersected 700ppm Cu (pelites?).

8) Gravity / magnetic anomaly. Gravity high is not co-incident with magnetics. More detailed gravity may assist delineation

9) Gravity anomaly in non-magnetic "Pelite Suite". Approx 1.5-2mgals in amplitude. Interpreted to be stratiform in nature having a wide 2.5km long NW-SE limb wrapping around to a narrower 3.5km long NE-SW limb.

Target 9 Details

Due to its high ranking, Target 9 is discussed further in this section.

The feature is shown in a Bouguer Gravity image in Figure 3 and, with more distinction, in a Residual Gravity image in Figure 4. It is delineated by several stations (250m X 500m spacings) and has an amplitude of 1.5 to 2mgals. The feature and its surroundings are decidedly non-magnetic as illustrated in a grey-scale 1VD aeromag image in Figure 5.

Initially, only the northern NW-SE trending 'limb' was recognised. This segment is ~2.5km long. However, after close inspection of the aeromagnetic image, the feature is now interpreted to continue southward, folding around to form a 3.5km long NE-SW trending 'limb'. This segment is sub-parallel to and some 500m east of a magnetic unit interpreted to be Bimba sequence.

A few ground geophysics traverses have been completed in the immediate vicinity of Target 9 in the past. However, the potential of the feature is recognised only with benefit of the spatial context provided by the recent BHP gravity survey.

- Rio Tinto completed a 10km long TEM traverse along a main access track in 1998. The profile, shown as white circles in Figures 3, 4, and 5, traverses the lower Willyama Supergroup (Pelite Suite, Bimba, and QFS). At the time, the portion crossing the Pelite Suite was noted as being relatively more conductive.

- Ground magnetics and gravity were acquired in 1998 along parts of this traverse as well. The location of the ground magnetic data does not agree entirely with the aeromagnetic image and does not extend over Target 9 anyway, so, it was largely ignored. A brief check of the RTE gravity profile did confirm close agreement with the BHP gravity survey.

- Placer Exploration acquired a line of 100m dipole-dipole IP/resistivity data in 1989 near the same access track as for the work discussed above. This line is referred to as Lignum Dam South Line and is indicated with cyan symbols in Figures 3, 4, and 5. A highly chargeable, conductive response exists at the southern end of the line near the gravity anomaly; unfortunately, the IP anomaly was not closed off entirely. Nonetheless, the source appears shallow, say 50m or less. Placer finished up by drilling five RAB? holes (LS1, LS2, LS3, LS4, & LS5) spaced 40m apart. The holes are ~1.5km north of the gravity feature. Depth to fresh bedrock ranged from 75m to 124m.

In short, the TEM and IP data suggest conductive, highly chargeable responses are in close proximity to the gravity high. Given the position of the lines, one cannot determine with absolute certainty whether the conductive chargeable responses relate directly with the gravity high, or whether they reflect flanking lithologic units within the Pelite Suite. Further ground geophysics would be required to determine this.

Target 9 is recommended for immediate drill testing. A program of two to three wide spaced aircore traverses is proposed to test the northern NW-SE trending 'limb' of the gravity anomaly. The basement is estimated to be at a depth of 50-75m from gravity modelling and IP data. As a result, a total of 15-20 holes for ~1000m is estimated for budgeting purposes. The option of conducting further ground geophysics has been considered, a program requiring around $5000 could be designed. However, the target is defined sufficiently with current knowledge to design a cost effective drill test.

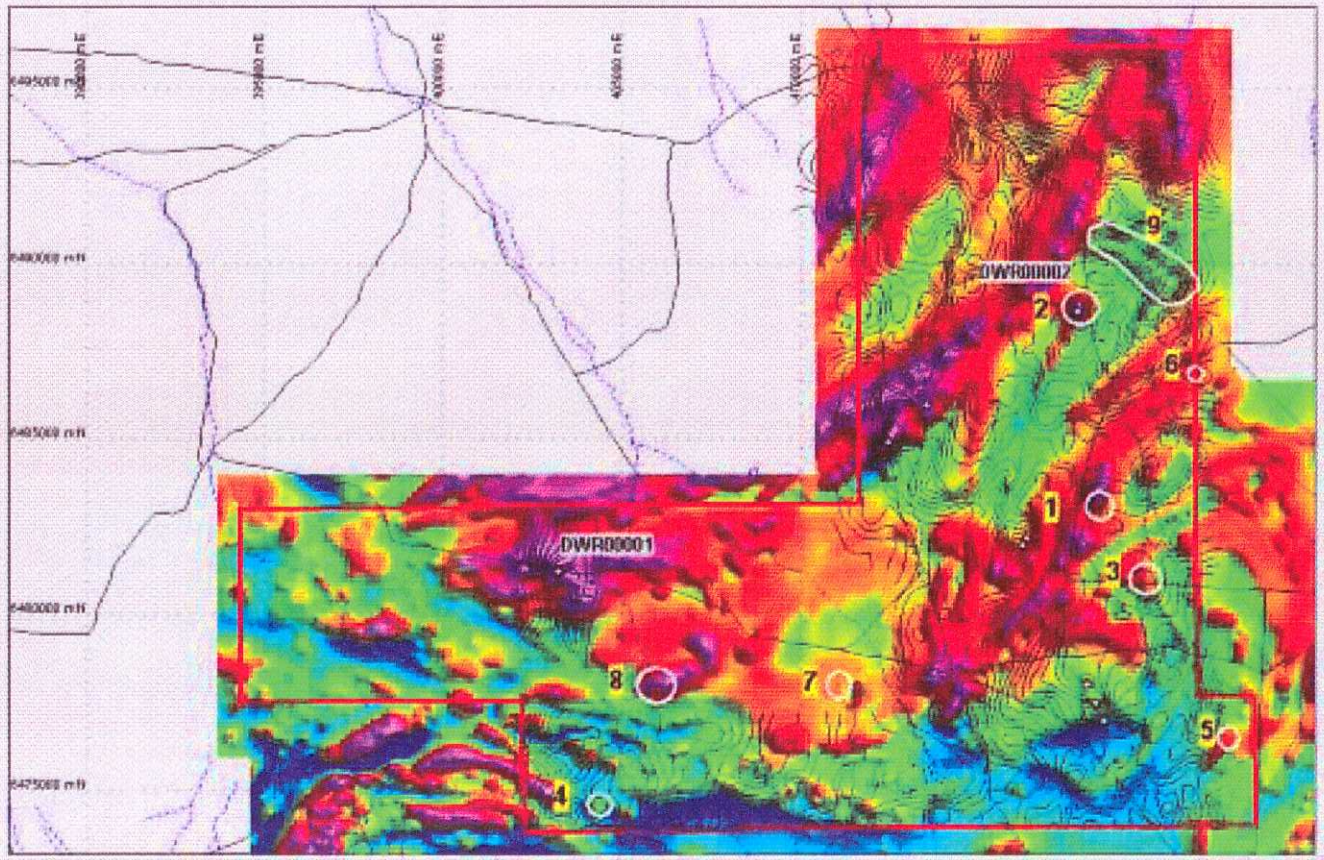
Total program cost	1000m aircore @ $20/m (total cost)	$20,000

Mark Arundell

CONSULTANT GEOLOGIST

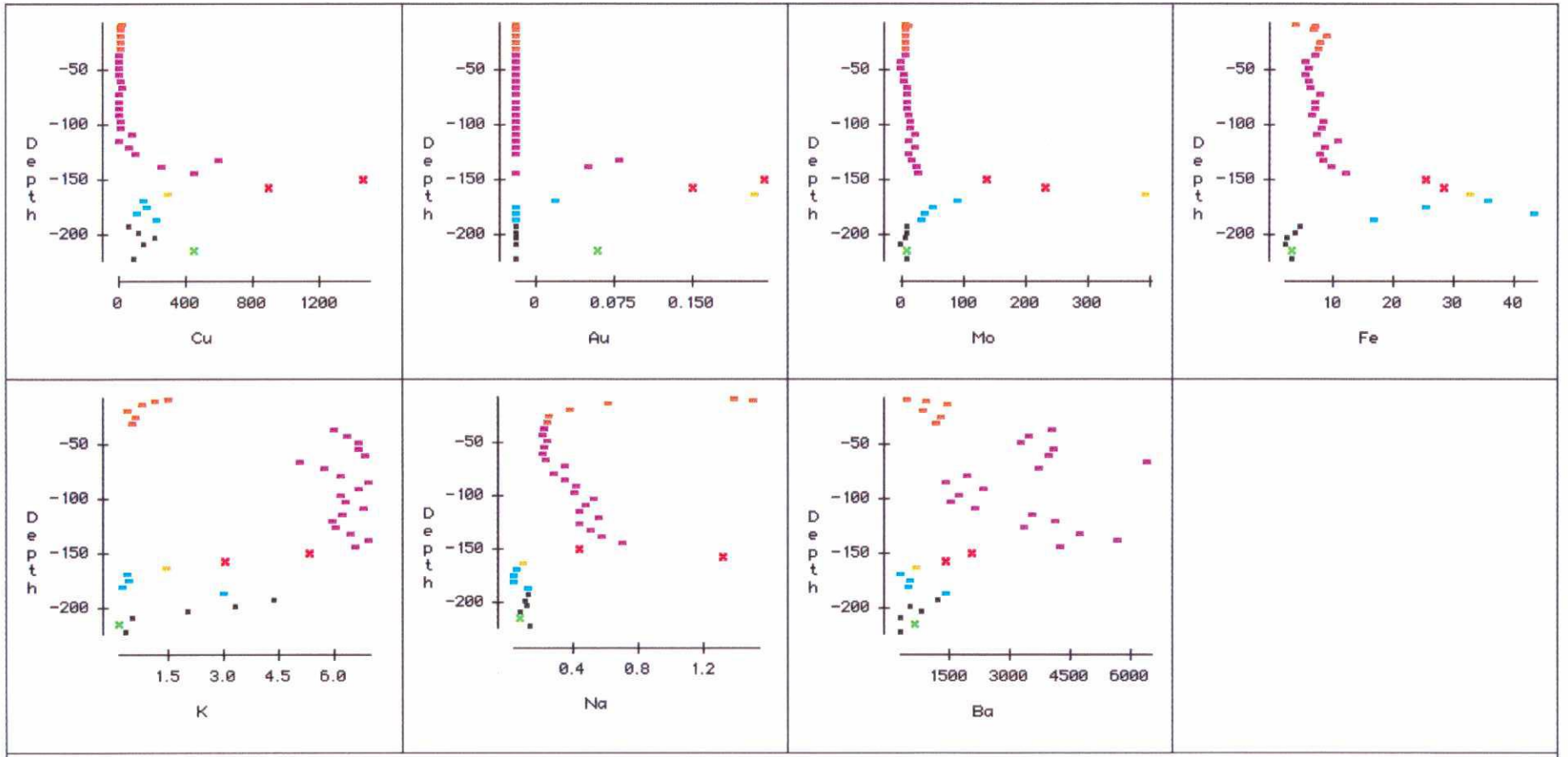
Todd Grant

SENIOR GEOPHYSICIST



Deep Well Dam
TMI Magnetics, BHP Gravity Contours
and Targets

FIGURE 1



Orange : Neoproterozoic; **Purple** : K/Na metasediment; **Red** : High Cu; **Yellow** : High Au; **Blue** High Fe (?Bimba); **Green** high P (?evaporite)

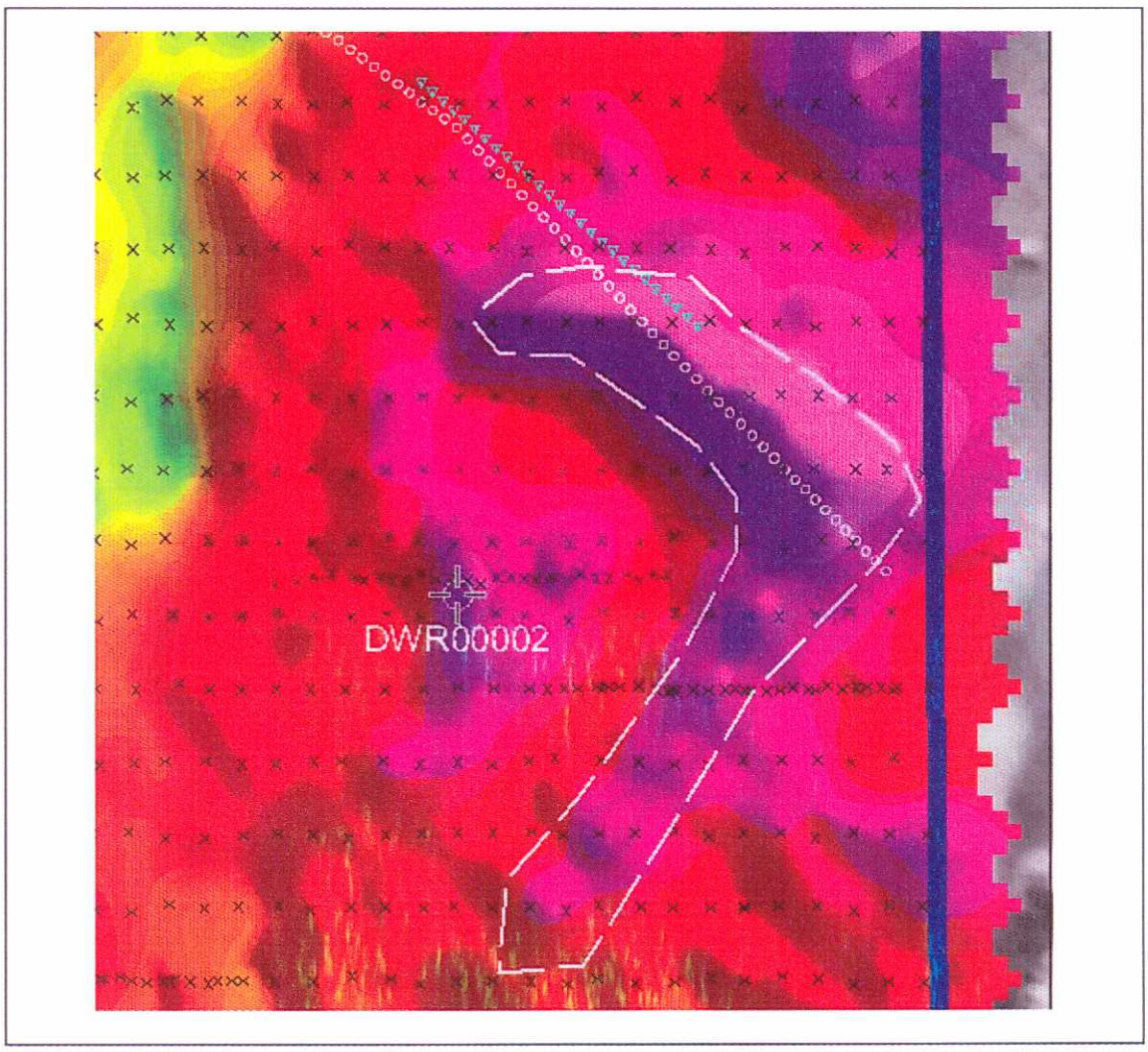


Figure 3. Bouguer Gravity Image showing Target 9 gravity anomaly. Gravity stations are shown as black X, spacing is 250m X 500m nominally. The gravity anomaly has an amplitude of 1.5-2mgals. RTE's 1998 ground EM profile shown as white circles. Profile along main access track, station spacing is 100m. Placer Exploration's 1989 IP profile shown as cyan symbols. BHP's drillhole DWR00002 is also shown.

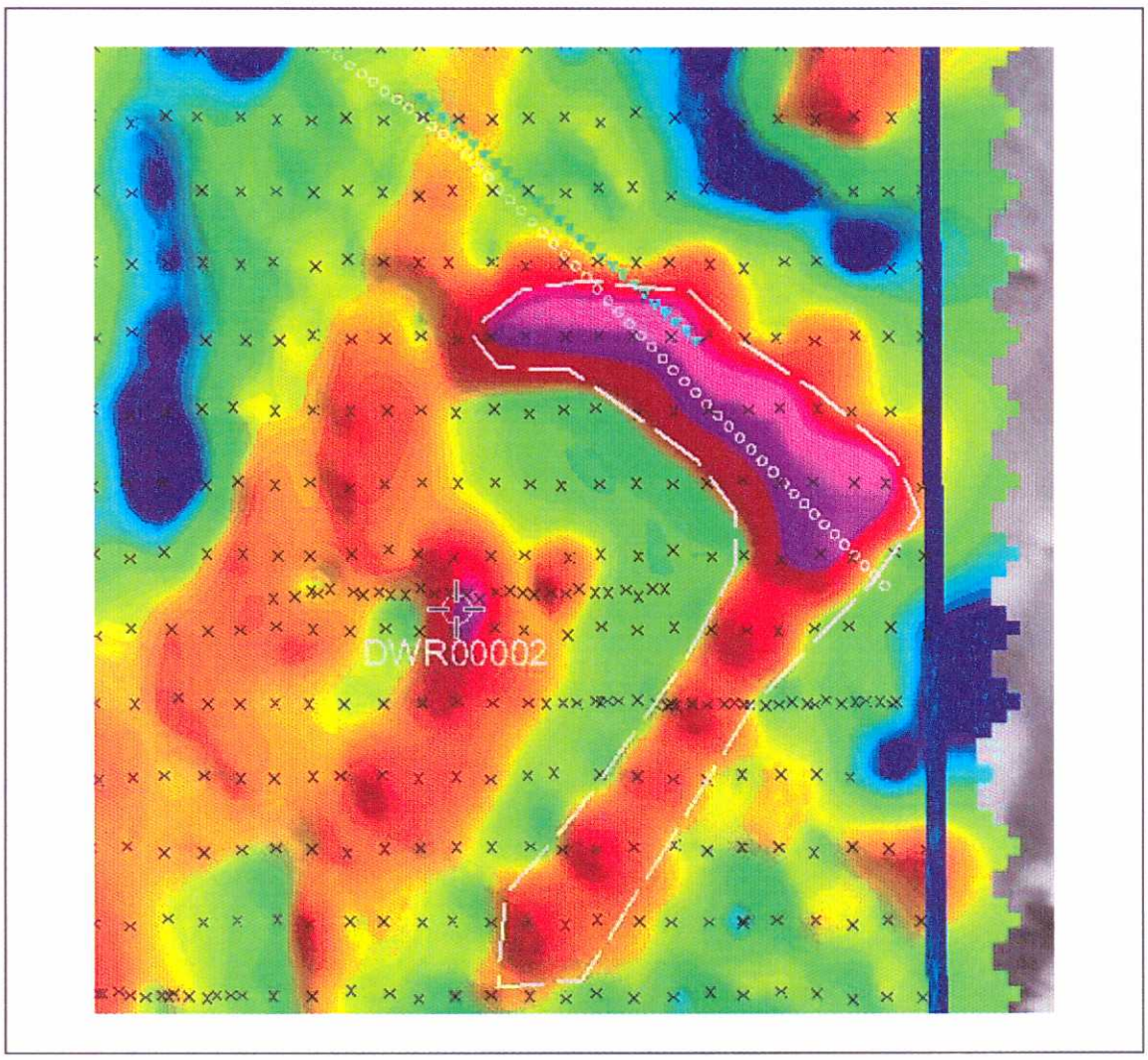
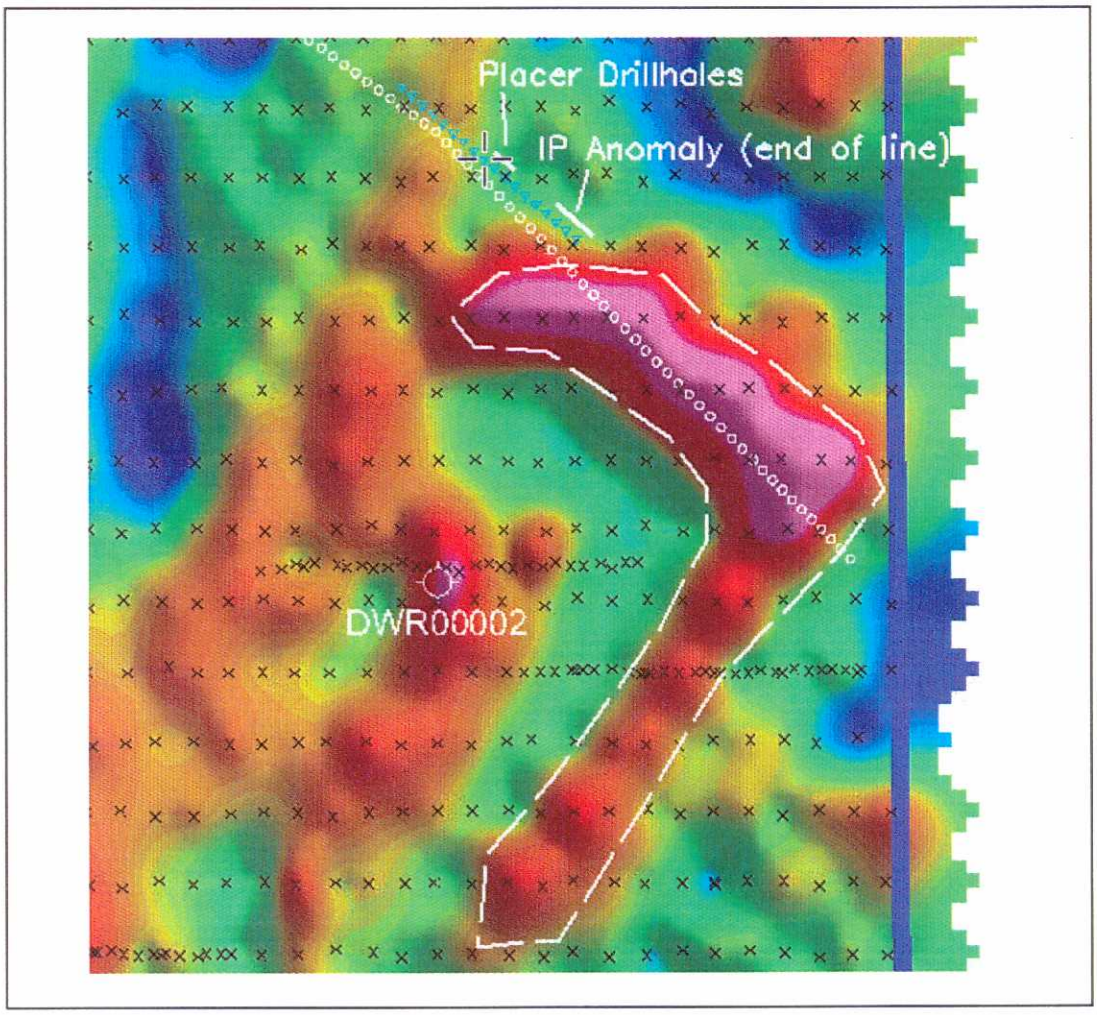


Figure 4. ***Residual*** Bouguer Gravity Image showing Target 9 gravity anomaly. Gravity stations are shown as black X, spacing is 250m X 500m nominally. The gravity anomaly has an amplitude of 1.5-2mgals. RTE's 1998 ground EM profile shown as white circles. Profile along main access track, station spacing is 100m. Placer Exploration's 1989 IP profile shown as cyan symbols. BHP's drillhole DWR00002 is also shown.



Revised Figure 4. Residual Bouguer Gravity Image also showing location of Placer drilling and location of 'end of line' IP anomaly.

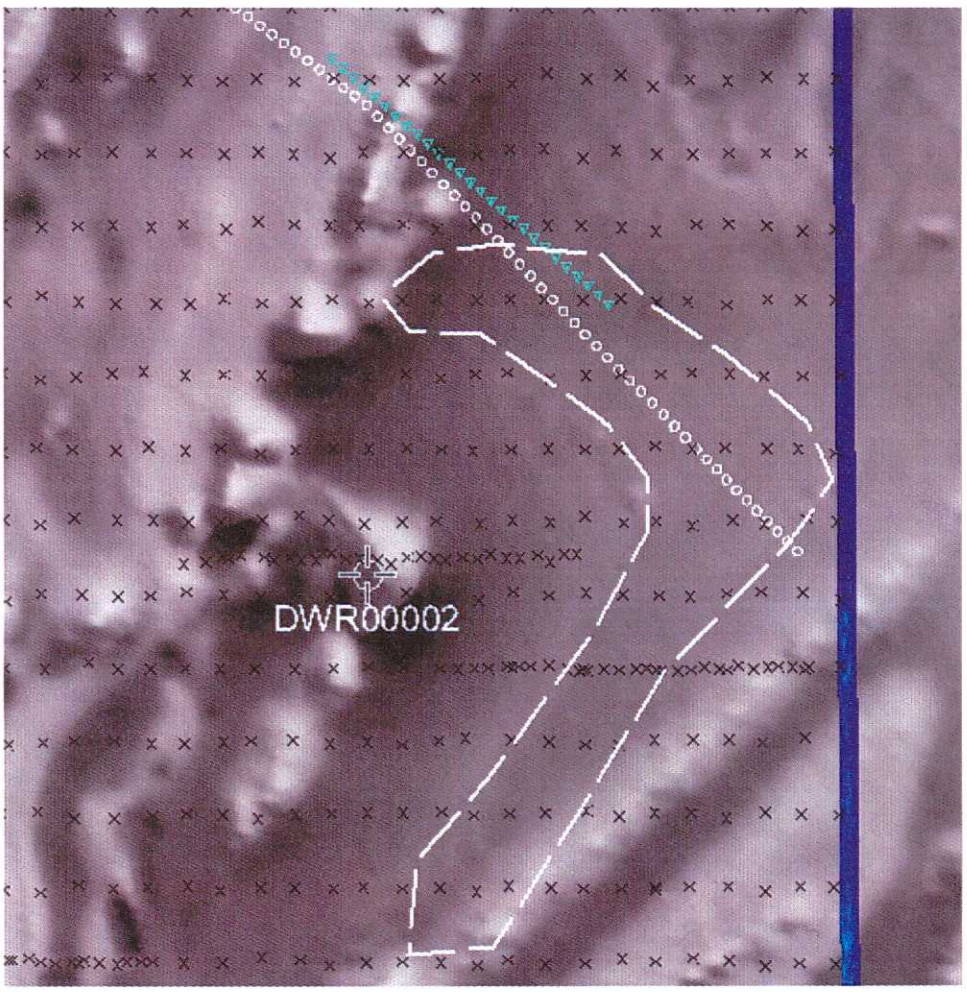
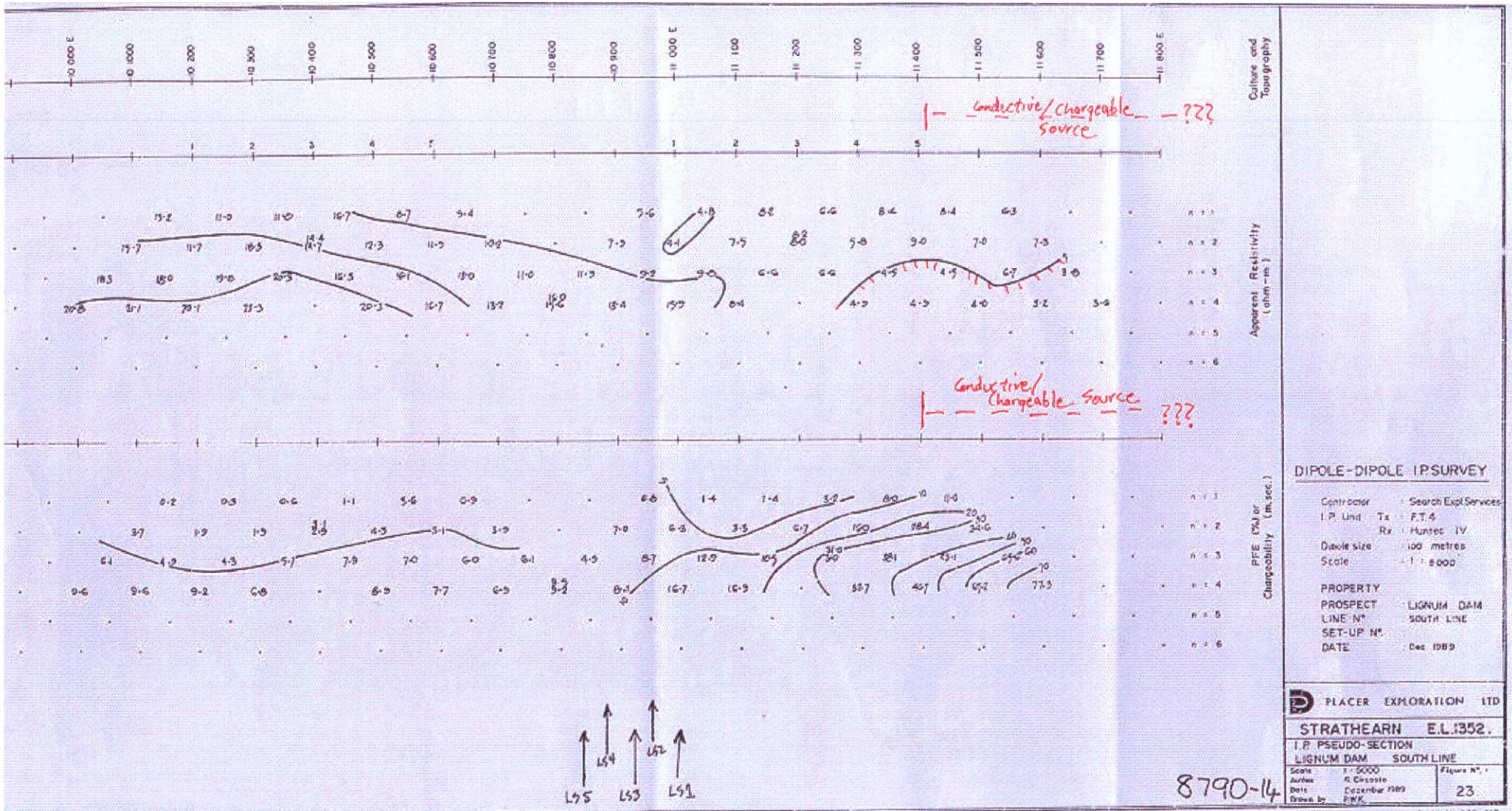


Figure 5. 1VD of TMI aeromagnetic image showing non-magnetic environment of the Target 9 gravity anomaly. Gravity stations are shown as black X, spacing is 250m X 500m nominally. RTE's 1998 ground EM profile shown as white circles. Profile along main access track, station spacing is 100m. Placer Exploration's 1989 IP profile shown as cyan symbols. BHP's drillhole DWR00002 is also shown.



DIPOLE-DIPOLE I.P SURVEY

Contractor		Search Expl Services
I.P. Unit	Tx	F.T.6
	Rx	Huntec IV
Dipole size		100 metres
Scale		1 : 5000

PROPERTY

PROSPECT	LIGNUM DAM
LINE N°	SOUTH LINE
SET-UP N°	
DATE	Dec 1989

PLACER EXPLORATION LTD

STRATHEARN E.L.1352.

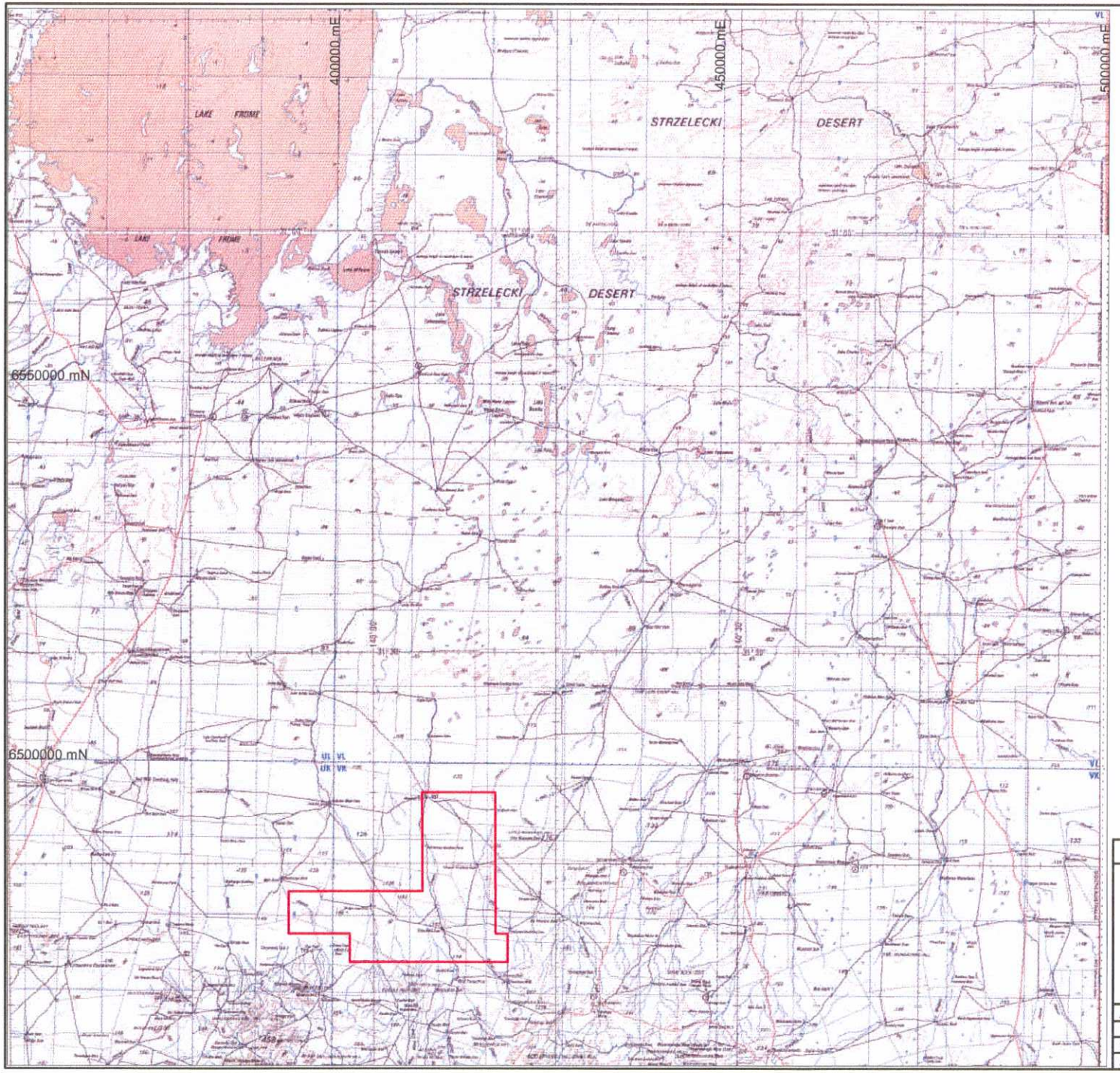
I.P. PSEUDO-SECTION

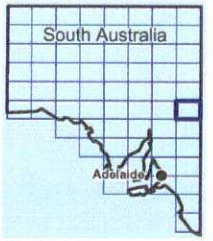
LIGNUM DAM SOUTH LINE

Scale	1:5000	Figure N°.
Author	R. Cirasole	23
Date	Dezember 1989	
Drawn by	PWK	

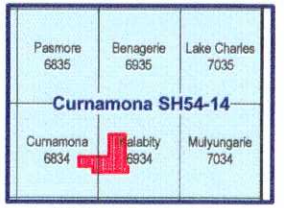
8790-14

PLAN No. 282-013





INDEX to adjoining map sheets



100 000 & 250 000 map sheets

0 10 20 30 40

kilometres

Datum : Zone 54 AGD66

RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

TENEMENT LOCATION PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : LJ HOOKER	File Name : 44430gen
Date : NOVEMBER 2000	Report No : 24620
Scale : 1:500 000	Plan No : WA44430p

Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Annual Report for the Period Ending 2 November 2002, EL2665 Deep Well Dam, Curnamona SH54-14, South Australia

Exploration Report No. 25802

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	January 2003
Author:	S R Bishop
Submitted:	D C Palmer
Distribution:	Primary Industries and Resources South Australia RTE Perth Information Centre

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SUMMARY OF ACTIVITIES

EL2665 Deep Well Dam is located within the Palaeoproterozoic Olary Domain encompassing sequences prospective for Zn-Pb and Cu-Au deposits.

During the current reporting period RTE reviewed the status of the Deep Well Dam project against its other base metal projects around Australia. A plan to drill eight drill holes to test targets identified the previous year was postponed due to land access issues. RTE decided to farm out EL2665 on the basis that various untested exploration targets remained sufficiently prospective to maintain an interest in the project. All available historical data was packaged and presented to various potential joint venture partners during the period. The divestment remains in progress.

RTE did not carry out any field-based exploration during the current reporting period. An environmental management plan (EMP) was completed.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modeling		
Reprocessing of data	WAp44430.pdf WAp44431.pdf	.pdf .pdf
General research		
Report preparation	25802 Deep Well Dam.pdf	.pdf
Other (specify)	25180 Deep Well Dam EMP.pdf Deep Well Dam EPBC.pdf ENVT102.pdf ENVT103.pdf ENVT104.pdf ENVT105.pdf ENVT107.pdf ENVT108.pdf ENVT110.pdf ENVT111.pdf ENVT113.pdf Deep Well Dam Radiation Procedures.pdf U3O8 Procedures.pdf WA44430.pdf WA44431.pdf	.pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		

Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	25802 Deep Well Dam V.pdf	.pdf

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LIST OF PLANS

Plan No.	Title	Scale
WAp44430	Tenement Location Plan	1:500 000
WAp44431	Previous Exploration Outline	1:100 000

1 SUMMARY

EL2665 Deep Well Dam is located within the Palaeoproterozoic Olary Domain encompassing sequences prospective for Zn-Pb and Cu-Au deposits.

During the current reporting period RTE reviewed the status of the Deep Well Dam project against its other base metal projects around Australia. A plan to drill eight drill holes to test targets identified the previous year was postponed due to land access issues. RTE decided to farm out EL2665 on the basis that various untested exploration targets remained sufficiently prospective to maintain an interest in the project. All available historical data was packaged and presented to various potential joint venture partners during the period. The divestment remains in progress.

RTE did not carry out any field-based exploration during the current reporting period. An environmental management plan (EMP) was completed.

2 CONCLUSIONS AND RECOMMENDATIONS

Various geophysical anomalies prospective for base metals remain to be tested with drilling.

No significant environmental issues were identified.

3 INTRODUCTION

Exploration Licence 2665 Deep Well Dam, totaling 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the SH54-14 Curnamona 1:250 000 sheet (Plan WAp44430). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL2665 was granted to Rio Tinto Exploration Pty. Limited (RTE) on 3rd November 1999 upon renewal of EL2016 at the end of its five-year term. EL2016 was granted to CRA Exploration Pty. Limited (CRAE) on 2nd September 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty. Limited. BHP Minerals Pty Ltd (BHPM) assumed management of the tenement from 30th December 1999 until 7th August 2000. RTE regained management of the tenement on 8th August 2000.

EL2665 Deep Well Dam formed part of RTE's Curnamona Zinc Project located within the Northern Olary Domain of the Curnamona Province. RTE is exploring EL2665 for base metal mineralisation of sufficient size to meet its corporate objectives. Potential mineralisation styles include stratabound/ stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite and stratabound massive sulphide Cu-Zn-Co-Mn in the Bimba Formation.

This report details the activities of RTE on EL2665 for the period 3rd November 2001 to 2nd November 2002.

4 LICENCE DETAILS

Table 1: Licence Details

Tenement No.	No. Of Blocks	Tenement Name	Ownership	Grant Date
EL 2665	347sq Km. (Area)	Deep Well Dam	Rio Tinto Exploration Pty Ltd. (100%)	3rd November 1999

5 GEOLOGY

EL2665 Deep Well Dam is situated in the southern portion of the Palaeoproterozoic to Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain of the Curnamona Craton.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain - the two Domains forming the Willyama Inlier. The Willyama Supergroup is interpreted to have been deposited within a ~1780-1680 Ma intracratonic rift and rift-platform basin. Numerous small copper and copper-gold, minor zinc-lead-silver and uranium workings/prospects occur throughout the Olary Block.

6 PREVIOUS EXPLORATION

Previous base metal exploration by CSR/Placer in the early 1990's targeted the "Bimba Formation" and "Upper Albite" stratigraphic sequences. Airborne magnetic targets were tested with ground electrical methods and drilling. Minor Zn anomalism was intersected.

During the first 5 years (EL2016) RTE completed geological studies, Landsat TM interpretation, captured and assessed open file geochemical data, surveyed airborne magnetics/radiometrics, regional gravity data interpretation, gravity surveys, regional lag sampling, In-Loop TEM surveys, Dipole-Dipole IP surveys, ground magnetic surveys and limited RAB drilling. No significant results were returned.

During the 6th year BHP Minerals (BHPM) reassessed the regional aeromagnetic and gravity data then carried out gravity and ground magnetic surveys and completed 9 RC drill holes to test various targets. Overall, the drilling results failed to intersect any significant mineralisation and BHPM withdrew from the project.

During the 7th year RTE completed a review of previous work to identify new targets. A series of gravity/magnetic targets were delineated and ranked as potential drill targets. Also considered of further interest was anomalous Cu-Au-Mo mineralisation intersected in BHPM drill hole DWR0002 hosted by possible Bimba Formation. Eight drill holes were proposed to drill the targets identified.

The location of previous surveys, grids and drill holes are provided on Plan WAp44431.

7 EXPLORATION COMPLETED DURING REPORTING PERIOD

During the current reporting period RTE reviewed of the status of the Deep Well Dam project against its other base metal projects around Australia. A proposal to drill eight drill holes to test targets identified the previous year was held up by Native Title access issues and then postponed indefinitely. It was decided to farm out the project on the basis that the untested exploration targets were sufficiently prospective to maintain an interest in the project. All available historical data was packaged and presented to various potential joint venture partners during the period. The divestment remained in progress at the time of completion of this report.

RTE did not carry out any field-based exploration during the current reporting period.

8 ENVIRONMENT

RTE completed an Environmental Management Plan (EMP) for EL2665 during the reporting period (Appendix 1). No significant environmental issues were recognised.

9 EXPENDITURE STATEMENT

Description	Amount ($)
Cont Exploration- Ext	5329.3
Field & Transport	8176.72
Tenement Payments	4193.3
Payroll & Benefits	28303.49
Computing Services	2293.98
Sundry Prof & Other	965.52
Travel & Accomodation	554.54
Rent & Property	3001.87
Gen Office Supp & Comm	975.55
Indirect Costs	5985.95
Total	**59780.22**

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Palmer, D.C	1999	EL 2016, Deep Well Dam, South Australia, Fifth Annual Report for the Period 2/9/98 to 1/9/99. Rio Tinto Report No 24185
Hawke, P.	1999	EL 2016 – Deep Well Dam Fourth Annual Report 2/9/97 to 1/9/98. Rio Tinto Report 24124
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Moody, TC and McInnes, DJ	1996	Annual Report for the Period Ending 1 September, 1996. EL 2016 Deep Well Dam, South Australia. CRAE Report 23009
Stewart, W.A.,	1995	Annual Report for Deep Well Dam EL 2016, South Australia for the period ended 1 September, 1995. CRAE report. 21178
Placer Exploration	1994	EL 1751 Strathearn, South Australia. Partial Relinquishment Report for period 20th August 1986 to 17th May 1994. Placer report SA5/94
Placer Exploration	1990	EL 1352 Strathearn Exploration Report. Period to Feb 19, 1990. Placer report SA5/90

LOCALITY

Curnamona	SH5415	1:250,000
Mulyungarie	7034	1:100,000

DESCRIPTOR

This report documents work completed by Rio Tinto on EL2665 (Deep Well Dam) for the period 3rd November 2001 to 2nd November 2002. RTE did not carry out any field-based exploration during the current reporting period. An environmental management plan (EMP) was completed. Divestment of the project is in progress.

KEYWORDS

Bimba Formation, Copper, Curnamona Province, Gold, Olary Domain, Pelite Suite, Proterozoic, Willyama Inlier, Zinc

APPENDIX 1

Report 25180 Environmental Management Plan

25180 Deep Well Dam EMP.pdf

Deep Well Dam EPBC.pdf

ENVT102.pdf

ENVT103.pdf

ENVT104.pdf

ENVT105.pdf

ENVT107.pdf

ENVT108.pdf

ENVT110.pdf

ENVT111.pdf

ENVT113.pdf

Deep Well Dam Radiation Procedures.pdf

U3O8 Procedures.pdf

WA44430.pdf

WA44431.pdf

Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Environmental Management Plan
EL 2665 Deep Well Dam
Curnamona SH5414
South Australia

Exploration Report No. 25180

Tenement Holder:	Rio Tinto Exploration Pty Ltd.
Date:	April 2002
Author:	A Christie / S Smith / A Raddock
Submitted:	D C Palmer
Distribution:	RTE Perth Information Center Primary Industries & Resources SA

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Appendix 1	ENVT100.1 Environmental Protection and Biodiversity Conservation Checklist	Deep Well Dam EPBC.pdf
Appendix 2	Rio Tinto Exploration Australasian Region - Environmental Procedures	ENVT102.pdf ENVT103.pdf ENVT104.pdf ENVT105.pdf ENVT107.pdf ENVT108.pdf ENVT110.pdf ENVT111.pdf ENVT113.pdf
Appendix 3	Radiation Handling Procedural Documents	Deep Well Dam Radiation Procedures.pdf U3O8 Procedures.pdf

LIST OF PLANS

Plan No.	Title	Scale
WA44430p	Project Map – Tenement Boundary and Infrastructure	1:250,000
WA44431p	Previous Exploration Outline	1:250,000

1 SUMMARY

This Environmental Management Plan (EMP) documents the proposed work activities that will be carried out by Rio Tinto Exploration Pty Ltd (RTE) on the Deep Well Dam programme. The EMP will be the management document for all planned ground disturbance activities on EL2665.

RTE is exploring EL 2665 for base metal mineralisation of sufficient size to meet it's corporate objectives. The potential mineralisation style is stratabound/ stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite. It is proposed that the programme will involve drilling up to eight reverse circulation (RC) drill holes. Existing station tracks and campsites will be used.

All ground disturbance and rehabilitation on this programme will be documented in the Annual Environmental Report (AER). The Final Rehabilitation Report (FRR) will be completed prior to the tenement surrender.

2 INTRODUCTION

This Environmental Management Plan (EMP) covers Exploration Licence 2665 Deep Well Dam, which incorporates an area of 347km^2. It is located within the Northern Olary Domain of the Curnamona Province. The tenements were granted to RTE on 3rd November 1999. It is proposed that up to 8 RC drill-holes will be drilled during the reconnaissance-drilling programme in Q1-Q2 2002. Existing infrastructure such as station tracks and station campsites will be used where possible.

Rio Tinto will manage environmental issues associated with the tenement according to procedures documented in the RTE Environmental Management System and this EMP. It shall serve as a record of the measures taken by RTE to ensure responsible environmental management of the site. A digital copy of the Environmental Procedures has been provided to PIRSA and PIRSA will be updated with any changes to these procedures as required.

2.1 Location and Access

The Deep Well Dam Exploration Licence 2665, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the Curnamona SH54-14 1:250 000 sheet. The tenement is accessed via unsealed roads leading north from Olary and Manna Hill. The nearest large population centre is Broken Hill (~20 000 population).

Plan WA44430p is a map showing access to the area.

2.2 Licence Details

Table 1: Licence Details

Tenement No.	No. Of Blocks	Tenement Name	Ownership	Grant Date
EL 2665	347sq Km. (Area)	Deep Well Dam	Rio Tinto Exploration Pty Ltd. (100%)	3rd November 1999

2.3 Project Management

Principal Geologist: Dave Palmer

Project Geologist: Aaron Raddock

Phone: (08) 9270 9277

Fax: (08) 9270 9223

Mailing Address: PO Box 175, Belmont, WA 6984

Location Address: 37 Belmont Avenue, Belmont, WA 6104

3 GROUPS

3.1 Lease Holders

Lease Name/Number: Kalabity Station
Manager: David Miller
Address: PO Box 2, Coburn 5440
Leaseholder: Partacoona Pastoral Company
Contact Person: Richard Nitschke
Address: 13 Smith St, Walkerville SA

Lease Name/Number: Telechie Station
Manager: David Miller
Address: PO Box 2, Coburn 5440
Leaseholder: Partacoona Pastoral Company
Contact Person: Richard Nitschke
Address: 13 Smith St, Walkerville SA

Lease holders shall be kept informed of any relevant issues or possible changes to the field programmes. The area of interest within the Deep Well Dam EL 2665 covers the Kalabity Station and Telechie Station pastoral leases. The property owners rights will be respected at all times, with the booklet “Code of Conduct for Mineral Exploration on Pastoral Leases” being used as a guide.

3.2 Native Title Groups

Claimant Group (& number): Adnyamathanha SC 97/1[1]

Representative Body: Privately Represented

Contact Person (1): Grahame Harboard/Johnston Withers

Phone: (08) 8231 1110

Contact Person (2): John Bolton

Phone: (08) 8523 4931

Exploration activities will be conducted in accordance with the Work Area Agreement between RTE and the Native Title Claimants, the Adnyamathanha.

3.3 Community

Outside of Broken Hill (mining town), a small population is engaged in the pastoral industry and a small transient population is occupied with mineral exploration and vermin control businesses. Smaller townships, including Cockburn, Mingary and Olary occur along the Barrier Highway.

4 REGULATORY COMPLIANCE

4.1 Environmental Approvals

No additional Environmental conditions to those stipulated in the EL Grant Conditions have been placed on Rio Tinto Exploration Pty. Ltd.

4.2 Licence Conditions

The following conditions, pertaining to environmentally related issues, are stipulated in the Schedule of Conditions attached to the EL's.

- RTE shall conduct operations so as not to disturb the environment except in so far as this may be necessary to undertake the programme of exploration required by the standing exploration licence.

- A *Notice of Declared Equipment* must be served on the landowner at least 21 days prior to commencement to the use of scrapers, dozers, bulldozers, backhoes, or other mechanised equipment for surface disturbance. Following approval, all topsoil removed is to be separately stockpiled for replacement after backfilling and/or completion of operations. Details must be provided of measures proposed to prevent or reduce the effects of the proposal on the environment (including a map

showing location of holes or excavations and access, particularly any new track construction) in the form of an Environment Management Plan (EMP).

- Prior to commencing construction of major campsites, intensive track networks, airstrips and other major support facilities, a Declaration of Environmental Factors (DEF) shall be submitted to, and approved in writing by, the Director of Mines.

- All surface holes drilled for the purpose of exploration are to be capped, filled, or otherwise made safe after completion. All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, must be backfilled and rehabilitated to the satisfaction of the State's environmental standards. All backfilling and rehabilitation will be completed as soon as is reasonably practicable after excavation.

- All waste material, rubbish, plastic sample bags, abandoned equipment and temporary buildings must be removed from the mining tenement prior to or at the termination of the exploration program or placed in suitable waste disposal facilites provided by the proximal communities.

- If a water bore is required, notification must be given to the Department of Water Resources (Lloyd Sampson). In the event that RTE encounters significant underground water during drilling operations, RTE shall notify the exact location of such underground water to the Director of Mines and if practicable, collect samples and forward to PIRSA.

4.3 Utility Services

No utility services such as telephone cables, water-pipes and gas-lines are known to occur on the tenement area.

5 ENVIRONMENTAL FACTORS

5.1 Physiography

Topography within the area varies from low, rugged hills fringed by colluvium, grading from scree to coalesced alluvial fans and open, gently sloping sheetwash plains to broadly undulating areas of extensive sheets of aeolian sand. Saline drainages are present.

[1] There are 2 claimant groups, both Adnyamathanha, with claims over 2 separate areas on EL2665.

EL 2665 Deep Well Dam is situated in the southern portion of the Palaeoproterozoic to Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain - the two Domains forming the Willyama Inlier (eg. Laing, 1996; Clarke *et al*., 1986; Willis *et al*., 1983).

The dominant sandy soils are mixed with desert loams, red clays, lithosols and calcareous red earths. Climate is semi-arid to arid; summers are hot (frequently exceeding 40°C in January and February) and winters cold to mild (winter nights below freezing). Rainfall is highly irregular, with varying annual rainfalls. Strong winds and dust storms are common. The area of interest for the current drilling program is predominantly chenopods shrublands which are dominated by saltbush species such as *Maireana sp*. and *Atriplex sp*.. Patches of *Acacia aneura* (Mulga) are also common in the area.

5.2 Previous Exploration/Mining or other Disturbances

Previous exploration is largely limited to several rotary mud drill hole traverses by Placer with one diamond hole (BDD1) being drilled at the Birthday Dam prospect, and a few scattered rotary mud holes for Tertiary roll-front uranium mineralisation.

BHP more recently (3/9/00) completed 9 RC drill holes for a total of 1594m; assessment of regional aeromagnetic, and gravity data; detailed gravity surveys, ground magnetics surveys and petrological assessments of drill chips.

A summary map showing the location of surveys, grids, and drill holes are given on Plan WA44431p.

5.3 Quarantine Issues

Personnel at Primary Industries and Resources South Australia (PIRSA) Rural Solutions were contacted with regard to identifying Quarantine issues for the Deep Well Dam area. Due to the extensive history of pastoral lease and mining activity around the greater Broken Hill area, no quarantine issues are present for the planned RC drilling at Deep Well Dam EL 2665.

5.4 Sensitive Environmental Issues

RTE (and contractors) shall take practicable measures required to prevent the introduction of exotic fauna and noxious plants into the Deep Well Dam tenement area.

Results of the search for significant environmental issues on the tenement indicated that a few protected species "habitat (are) likely to occur within area" (Appendix 1). The activities are unlikely to have a serious adverse impact on these species as the exploration activities, conservation status and likelihood of these species being present on this tenement are relatively minor. No conservation reserves or other protected areas, such as heritage areas, were identified in this search.

5.5 Surface Water

There are no large active watercourses within the Deep Well Dam project area. The numerous, but small streams are ephemeral, are fed by surface runoff after heavy rains.

Table 2: Annual Rainfalls

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rain	34.5	24.3	37.0	12.8	10.8	15.0	9.2	10.5	18.9	18.8	20.5	29.5
Temp	36.1	35.4	32.0	27.4	22.3	18.9	18.9	21.9	36.0	30.1	33.6	35.1

5.6 Ground Water

No water bores will be required during the upcoming field activities as permission has been granted to use water from an established station dam. Should any water be encountered during drilling it shall be contained and reported to PIRSA (as per the Schedule of Conditions).

No aquifers are currently known within the Deep Well Dam project area.

5.7 Contaminated Land

No contaminated land is known within the tenement by TRANSPORT, South Australia - Environment Operations Unit.

6 WORK PROTOCOL AND REHABILITATION

At all times the RTE Environmental Procedures for environmentally responsible methods of minimising environmental impacts will be adhered to. These procedures and corresponding reporting assist in identifying and managing potential environmental impact resulting from RTE's activities. Copies of the Environmental Procedures and Checklists have been supplied to PIRSA.

6.1 Tracks

Several established access tracks occur within the Deep Well Dam project area and will be used where possible. At this stage it is envisaged that no additional access tracks will require construction. However, should the need arise RTE shall be responsible for its condition, maintenance and rehabilitation (where required) throughout and upon completion of field activities (Table 3).

A representative photographic record of the tracks used (existing and RTE constructed) during field activities shall be maintained. These will be reported in the Annual Environmental Report or Final Rehabilitation Report.

Table 3: Environmental Impact Management for tracks

Action	Impact	Control
Vehicles driving on track	• Generation of dust (bulldust) • Compaction of red clay areas • Erosion of sandy soils	ENVT102 Ground Disturbance

6.2 Camp-sites

All existing facilities will be used where possible. If a campsite is required to be constructed then, after consultation with the pastoralist/station manager and consideration of environmental and safety issues and heritage clearances (Table 4), the campsite location will be selected. All campsites or accommodation facilities will have a site manager (ie. project leader) assigned that will be responsible for ensuring that all appropriate Environmental Procedures are known to site personnel and are adhered to.

Representative photographic records of any campsites established will be maintained and an inspection carried out prior to the relinquishment of the tenement.

Table 4: Environmental Management for potential campsite impacts

Action	Impact	Control
Clearing vegetation	• Generation of Dust	ENVT103 Camp Management and ENVT102 Ground Disturbance
Improper disposal of domestic waste	• Visually unappealing • Encourages vermin	ENVT103 Camp Management

6.3 Drill-sites

Up to eight RC holes will be drilled and drill pads with sumps will be constructed. These drillsites shall be rehabilitated as soon as is reasonably practicable (Table 5). A representative sample of drill-sites will be photographed for recording purposes.

Table 5: Environmental Management of potential Drill-site impacts

Action	Impact	Control
Disturbance to topsoil and vegetation	• Limited re-growth	ENVT102 Ground Disturbance
No sump dug	• Contamination of soil, which leads to limited or no re-growth	ENVT102 Ground Disturbance

6.4 Drilling

A truck mounted variety of an RC drill rig will be contracted to drill the proposed holes. Appropriate dust control and hydrocarbon and hazardous substance handling measures will be impemented (Table 6).

Table 6: Environmental Management of potential Drilling impacts

Action	Impact	Control
Refuelling the drill-rig	• Contamination of soil	ENVT107 Drilling
Not capping holes	• Fauna entrapment • When a projectile (hole blow-out) could come into contact with person or fauna	ENVT108 Drill Hole Capping
Drill-rig in operation	• Excessive Dust levels • Excessive Noise levels	ENVT107 Drilling
Water use for operation of drill-rig	• Pollution of water source	ENVT107 Drilling
Improper waste disposal	• Visually unappealing	ENVT107 Drilling

6.5 Surface Sampling

No soil survey will be conducted for this programme.

6.6 Geophysical Surveys

No geophysical surveys are planned for this programme.

6.7 Gridding

No gridlines will be required for this programme.

6.8 Hydrocarbons and Hazardous Substances

As this is a relatively small-scale and short programme the equipment required will be minimal. Therefore minor quantities of hydrocarbons and hazardous substances will be present. Such substance may include diesel, petroleum, oils, domestic cleaning products, brake fluid, drilling chemicals and LPG. The transport, storage, use, disposal and emergency procedures for these substances are subject to the relevant RTE procedures (Table 7). Refer to Appendix 2.

No asbestiform or radioactive materials are known to occur on the tenement. However, if any of these minerals are intersected during drilling, activities will cease and appropriate standards/procedures will be sort (Appendix 3).

Table 7: Environmental Management potential Hydrocarbon & Hazardous Substance impacts

Action	Impact	Control
Spillage of >20L	• Contamination of soil and vegetation, which potentially inhibits growth. Leads to poisoning of animals through consumption of vegetation.	ENVT111 Hydrocarbons and Hazardous Substances; SAFE 109 Hazardous Substances (Minimum Standards); and, Australia District Field Operations Hazardous Materials Procedure.
Chemical fire	• Spread to vegetation and cause multiple impacts ie. habitat loss, threat to animals.	ENVT111 Hydrocarbons and Hazardous Substances; SAFE 109 Hazardous Substances (Minimum Standards); and, Australia District Field Operations Hazardous Materials Procedure.
Intersection of asbestiform or radioactive material during drilling	• Contamination of soil from uriniferous materials or asbestos.	ENVT111 Hydrocarbons and Hazardous Substances; SAFE 109 Hazardous Substances (Minimum Standards); and, Australia District Field Operations Hazardous Materials Procedure.

DESCRIPTOR

This Environmental Management Plan for the Deep Well Programme covers EL2665. The zinc programme will be located approximately 100km west of Broken Hill in South Australia, 350km north east of Adelaide. It is planned that the work programme will comprise up to eight RC drill-holes. This plan will set out the management measures implemented for environmental impact of activities associated with this programme. The tenement is on a pastoral lease and no significant environmental issues have been identified.

KEYWORDS

Environmental Management Plan, Rehabilitation, Ground Disturbance, Adnyamathanha, Kalabity Stations, Telechie Station, Partacoona Pastoral Company, Broken Hill, Cockburn, Mingary, Olary

REFERENCES

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Willis, I.L., Brown, R.E., Stroud, W.J. and Stevens, B.P.J. 1983. The Early Proterozoic Willyama Supergroup stratigraphic subdivision and interpretation of high to low-grade metamorphic rocks in the Broken Hill Block, New South Wales. Journal of the Geological Society of Australia, 30, 195-224.

Appendix 1

ENVT 100.1 Environmental Protection and Biodiversity Conservation Checklist

Deep Well Dam EPBC.pdf

RIO TINTO

Rio Tinto Exploration - Australasia Region

ENVT 100	**EPBC Cover Sheet**

DISTRICT:	**Australia**
PROGRAM:	**Proterozoic Zinc**
PROJECT:	**Deep Well Dam**
TENEMENT:	**EL 2665**
DATE:	**14th March 2002**

REFERRAL REQUIRED ~~YES~~/NO

Prepared by: _____

Checked by: _____

Shandell Smith

Approved by: _____

Exploration Manager

ENVT100.1 Environmental Protection and Biodiversity Conservation Checklist

Complete the Impact Identification and Management Table

Go to:
http://www.ea.gov.au/epbc/index.html

and click on 'Interactive Map and Interview'. Then click on the 'Interactive Map Search' icon and then 'accept' the caveat conditions. This will take you to the EPBC Interactive Map. Outline the tenement boundary of the project and conduct a search on the selected area.

Using the EPBC Interactive map, answer the following questions. This will assist in establishing whether the actions identified in the Action Resource Sheet (ARS) will have a significant impact and/or it will be a matter of National Environmental Significance (NES).

If you answer '**Yes**' to any of the following questions, please fill out the corresponding section in the Checklist.

Note All questions below are to be answered.

1. Is the action on, near or likely to adversely affect a World Heritage Property (WHP)?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 1 of the Checklist. If '**No**' go to Question 2.

2. Is the action on, near or likely to adversely affect a Ramsar Wetland?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 2 of the Checklist. If '**No**' go to Question 3.

3. Is the action likely to have a significant environmental impact on an Australian flora or fauna species, that is, listed in the Act as being extinct in the wild, critically endangered, endangered or vulnerable?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 3 of the Checklist. If '**No**' go to Question 4.

4. Is the action likely to affect any listed migratory species?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 4 of the Checklist. If '**No**' go to Question 5.

5. Does the action involve nuclear material/products, or an activity or facility for processing nuclear material/products?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 5 of the Checklist. If '**No**' go to Question 6.

6. Is the action in, near or likely to impact on a Commonwealth Marine area?

   ☐ Yes ☒ No

   If '**Yes**' go to Section 6 of the Checklist. If '**No**', then continue with the Questionnaire.

If the answer is 'Yes' to any of the above questions in this questionnaire, then the action is likely to have a significant environmental impact on a matter of National Environmental Significance.

When complete, attach the relevant Checklist Sections to this Questionnaire.

Impact Identification and Management

- Identify the activities proposed for this programme and complete the table

Exploration Activity	**Action** (Identify tasks involved with activity)	**Potential Environmental Impacts** (without Controls)	**Controls to be Applied** (Refer to relevant RTE Procedures)	**Residual Environmental Impacts -**with Controls (Low/Med/High)	**Residual Impact significant** (Y/N)	**Affect Matter of NES?** (Y/N – name NES)
Data Gathering **Airborne Survey** • aerial photographs • spectral scanning • geophysical surveys Hand Geological Mapping • hand sampling of rocks and soils • passive gravity measurements • handheld magnetic measurements **Geophysical Surveys** • looped conductor wire method • peg and hole method • seismic - shot hole						

Exploration Activity	Action	Potential Environmental Impacts (without Controls)	Controls to be Applied (from RTE current practices, i.e. Controls)	Residual Environmental Impacts (with Controls)	Affect Matter of NES?	Residual Impact significant
Geochemical Surveys • sampling by pick/shovel/trowel • trenching **<u>Data Analysis</u>** **Desktop** **<u>Drilling</u>** **Rotary Air Blast** **Percussion Drilling / RC**	Disturbance to topsoil and vegetation	Limited re-growth	ENVT102 Ground Disturbance	Low	N	N
	No sump dug	Contamination of soil, which leads to limited or no re-growth	ENVT102 Ground Disturbance	Low	N	N
	Refuelling the drill-rig	Contamination of soil	ENVT107 Drilling	Low	N	N
	Not capping holes	Fauna entrapment When a projectile (hole blow-out) could come into contact with person or fauna	ENVT108 Drill Hole Capping	Low	N	N

Exploration Activity	Action	**Potential Environmental Impacts** (without Controls)	**Controls to be Applied** (from RTE current practices, i.e. Controls)	**Residual Environmental Impacts (**with Controls)	**Affect Matter of NES?**	**Residual Impact significant**
Diamond Core Drilling						
Access	Vehicles driving on track	Generation of dust (bulldust) Compaction of red clay areas Erosion of sandy soils	ENVT102 Ground Disturbance	Low	N	N
Temporary Camp • establishing and using camp of size one caravan or less • establishing and using camp of size more than one caravan	Clearing vegetation	Generation of Dust	ENVT103 Camp Management and ENVT102 Ground Disturbance	Low	N	N
	Improper disposal of domestic waste	Visually unappealing Encourages vermin	ENVT103 Camp Management	Low	N	N

Appendix 2

Rio Tinto Exploration Australasian Region – Environmental Procedures

ENVT102.pdf
ENVT103.pdf
ENVT104.pdf
ENVT105.pdf
ENVT107.pdf
ENVT108.pdf
ENVT110.pdf
ENVT111.pdf
ENVT113.pdf

Ground Disturbance Checklist

Project:	Leader:	Date:

Identifying Environmental Issues

Have areas requiring ground disturbance been identified, assessed for hazards eg erosion and minimal impact ground disturbance planned for?

Stakeholders

Have all Stakeholders been made aware of the ground disturbing activities and consulted with in regards to the methods to be used to minimise environmental impact?
Has major communication and decision making with stakeholders been documented and records kept?

Staff Inductions

Have staff and contractors been inducted on all aspects of the ground disturbing activities and the correct procedures for carrying out the work?

Access Tracks

Have access tracks been planned, constructed and rehabilitated according to the procedures set out in the Ground Disturbance environmental procedure?

Campsites

Have campsites been planned, constructed and rehabilitated according to the procedures set out in the Ground Disturbance environmental procedure?

Drill Pads

Have drill pads been planned, constructed and rehabilitated according to the procedures set out in the Ground Disturbance environmental procedure? ☐

Trenches, Costeans and Pits

Have trenches, costeans and pits been planned, constructed and rehabilitated according to the procedures set out in the Ground Disturbance environmental procedure?

Has a representative rehabilitation-monitoring program been undertaken and results documented in the Environmental Management Plan and reports? ☐

Comments

Camp Management Checklist

Project:	Leader:	Date:

Has the need for a camp been identified?

Camp Location

- Has feedback from landowners / land managers and other key stakeholders been sought?
- Is there good access to the location?
- Is the location close to the work area?
- Is the location convenient to the camp water supply?

Site Selection

- Have areas of high flora, fauna and Heritage conservation been avoided?
- Is the site located at least 100 meters downstream and away from any water course or other water bodies?
- Have areas of high fire risk been avoided?
- Has a natural clearing been chosen as the camp site where possible?
- Has the visual impact of the camp been taken into account and minimised?

Planning and Construction

- Has a monitoring station been established and photographs taken?
- Has ground disturbance been minimised?
- Have staff and contractors been given an induction including environmental factors for the camp and the exploration program?
- Has a set of camp rules been produced containing environmental issues and fire management and provided to all residents?
- Have waste storage areas been designated?
- Have storage areas been designated for hydrocarbons and hazardous substances?

General Operations

- Is sewerage and waste water from the ablution facilities disposed of in a manner that will minimise the risk to the health of camp residents minimise pollution of surrounding surface and ground water?
- Is a system in place for the removal of all rubbish from sites Eg. Rubbish Trailer?
- If a waste pit is being used, are procedures for waste pit usage being followed?

Recycling

- Is a recycling program being used? Eg. Separate bins for waste products and recyclable products?

Fire Management

- Has the local Shire been contacted to ensure no fire restrictions are in place?
- Are fires located in an area cleared of flammable material for a radius of 3 metres?
- Are fires located a safe distance away from accommodation and work areas?

Are procedures in place to minimise the risk of wild fires occurring, including:

1. Using gas barbeques or other facilities where possible.
2. Ensuring that all fire places have a barrier of made of stone or are located within a 300mm (or deeper) excavated depression
3. Appropriate fire fighting equipment is available and in good working order.

Planning Closure and Rehabilitation

- Has a site closure plan been developed and documented?

Closure and Rehabilitation

- Has all rubbish and facilities been removed from site?
- Have all areas requiring rehabilitation been rehabilitated?

Monitoring and Auditing

- Has a monitoring and auditing program been undertaken and the results documented?

Monitoring Stations Checklist

Project:	Leader:	Date:

Due diligence

Have monitoring stations been established for due diligence reporting on the tenement and the results documented?

Existing and new access tracks

Have environmental monitoring stations been established for existing and new access tracks and the results documented?

Have monitoring stations been established at areas that may be more prone to environmental damage such as bulldust areas, creek crossings and sloping ground?

Archaeological / heritage sites

Have monitoring sites been established at all known Archaeological/heritage sites prior to any exploration activity in the area near these sites and the results documented?

Rare or endangered flora and fauna sites

Have monitoring sites been established at all known Archaeological/heritage sites prior to any exploration activity in the area near these sites and the results documented? ☐

Camp sites

Have monitoring sites been established at the camp site prior to camp set up and the results documented? ☐

Hydrocarbons and hazardous substance storage facilities

✓ ✕(N/A)

Have monitoring sites been established at Hydrocarbon and Hazardous substance storage facilities up and the results documented? ☐

Sample sites

Have monitoring sites been established and the results recorded at sample sites for the following purposes?

1. Demonstrate the low impact of the activity?
2. Provide a representative (25%) picture of a higher impact program?

Grid lines

Have monitoring sites been established and the results recorded at Grid lines for the following purposes?

3. Demonstrate the low impact of the activity?
4. Provide a representative (25%) picture of a higher impact program?

Drill Pads

Have monitoring sites been established at drill pads to provide a representative (25%) picture of areas before and after disturbance and the results recorded?

Have monitoring stations been established at areas that pose a higher environmental risk?

Comments

Quarantine Checklist

Project:	Leader:	Date:

Identifying Quarantine Issues

Have environmental quarantine hazards associated with the project been documented in the Environmental Management Plan and discussed with stakeholders, employees and contractors?

Procedures

Have procedures for the management of quarantine environmental hazards been developed and documented? ☐

Foodstuffs

Have you ensured that all fresh fruit, vegetables, honey and walnuts have been disposed of prior to moving interstate?
Have you packed your food supplies in an accessible location for declaration and inspection at the Quarantine Checkpoint?

General

Have you ensured that no fruit and vegetable cartons or agricultural packing/sacks have been used to pack goods? ☐

Have you ensured that items that have been in contact with the ground and /or vegetation such as tents, swags, footwear, shovels and picks are cleaned to remove contamination? ☐

Used machinery, vehicles and equipment

Has category 4 Machinery such as 4WD vehicles, trucks, trailers, caravans and motorbikes been inspected in accordance with the checklist supplied in the Quarantine Environmental procedure and the records made available for Quarantine staff? ☐

Has category 3 Machinery such as earthmoving, mining equipment and Drill Rigs been inspected in accordance with the checklist supplied in the Quarantine Environmental procedure and the records made available for Quarantine staff? ☐

Have Inspection Checklists been filed so they may be made available for auditing purposes? ☐

Permit to Import Quarantine Material

(due to be introduced into Importing to WA only and may be adopted by other states)

Do you have a copy of the permit to Import Quarantine Material? ☐

Have you contacted the Applicable Quarantine Checkpoint and notified them of you ETA and your permit number? ☐

Drilling Checklist

Project:	Leader:	Date:

Identifying Environmental Issues

Have environmental impacts associated with the drilling activities been recognised in the Environmental Management Plan and discussed with stakeholders, employees and contractors?

Sumps

Has a sump been constructed at the drill site?

Is the sump positioned to catch all intended materials such as water, drilling mud and foam?

Is the sump large enough to handle the amount of materials and left over sample material?

Has one end of the sump been sloped to allow any animals an exit route if they should fall in to the sump?

Sampling

Has hessian sheeting been placed under the cyclone to capture sample overflow and waste?

Water sources

Have correct permits/licences been obtained for and are being complied with for use of ground water for drilling purposes? ☐

Have correct permits/licences been obtained for and are being complied with for use of surface water for drilling purposes? ☐

Dust Control

Have dust control measures been implemented including the following?

- Drilling wet.
- Directing dust exhausts away from trees or large shrubs.
- Collecting dust.
- Directing dust along a track or into a cleared area.

Waste Management

Have employees and contractors been advised to keep waste to a minimum?

Has all waste been removed from the drill site?

Has any waste that may be beneficial (Old drill rods and casing etc.) been offered to the Land owner?

Comments

Drill Hole Capping Checklist

Project:	Leader:	Date:

Temporary Drill Hole Caps

Have all drill holes which are not finished with been capped according to the procedures in this document including:

- Has the Drill Hole been located with a GPS and the coordinates recorded
- Have the inside and the outside of the cap been marked with:

4. The hole number
5. Total depth
6. Co-ordinates

- Has the hole been capped with a polyurethane cap and the cap secured with 1 or more self tapping screws?

Permanent Drill Hole Caps

Have all drill holes that are being permanently capped, capped in accordance with the procedures in this document including;

- Has the casing been cut off at a depth of no less than 50cm below the surface of the ground?

- Has a concrete plug fitted with an aluminium tag inscribed with the following been inserted in the casing?

1. The hole number
2. Total depth
3. Co-ordinates

For holes that need to be relocated has star picket been driven into the ground 1 metre North of the hole with the hole number, total depth and coordinates inscribed on the picket or on a metal tag attached to the picket?

Hole Number	Easting	Northing	Temporary Cap	Permanent Cap

Sampling Checklist

Project:	Leader:	Date:

Identifying Environmental Issues

Have environmental impacts associated with the sampling activities been recognised in the Environmental Management Plan and discussed with stakeholders, employees and contractors?

Access

Has access to sampling sites been planned to minimise the impact on the environment? ☐

Locating and Marking Sample Sites

Have reasonable steps been taken to minimise material left behind to mark a sample site including use of GPS, aerial photographs and topographical maps? ☐

Are only aluminium perma tags been used to mark sample sites? ☐

Ground Surveys

When sampling have you;

Chosen the sample sites carefully? ☐

Disturbed only the area you wish to sample? ☐

Made sure that excess sample and vegetation is easily recoverable for rehabilitation purposes? ☐

Airborne Surveys

Have landowners been advised in advance by letter and in person where possible, of the proposed work program and its duration prior to the commencement of the survey and have all practicable measures been taken to comply with the landowners wishes? ☐

Rehabilitation

All Sample sites must be rehabilitated at the time of sampling.

- Has the sample site been re-filled with excess product and vegetation?
- Has the site been re-contoured to its original shape?
- Has the site been checked and all waste products and tools removed eg. Geo-picks and GPS's?
- Have sites been rehabilitated as close as possible to their original condition?

Waste Management

Has all waste generated from the sampling program been returned to camp and disposed of in a recognised waste facility?

Monitoring and Auditing

Has a representative rehabilitation monitoring program been undertaken and results documented in the Environmental Management Plan and reports? ☐

ENVT 111 Hydrocarbons and Hazardous Substances – Environmental procedure

Policy

Rio Tinto Exploration - Australasia Region (RTE-AR) recognises that in order to achieve success in the long term it is to adopt responsible environmental practice. The proper management of hydrocarbons and hazardous substances are essential for attaining minimum environmental disturbance.

Purpose

The purpose of this environmental procedure is to ensure that the transportation, use and storage of hydrocarbons and hazardous substances are carried out in a manner that prevents any environmental damage occurring.

Scope

This Environmental procedure covers the transportation, use, storage and waste management of hydrocarbons and hazardous substances. It also includes emergency response procedures and rehabilitation guidelines, should a spill occur.

Links

<u>Environmental</u>

RTE-AR Environmental Policy

ENVT 102 Ground Disturbance – Environmental Procedure

ENVT 103 Camp Management – Environmental Procedure

ENVT 104 Site Monitoring – Environmental Procedure

ENVT 106 ARD Manual – Environmental Procedure

ENVT 107 Drilling – Environmental Procedure

ENVT 109 Water Bore – Environmental Procedure

ENVT 113 Radiation – Environmental Procedure

ENVT 114 Monitoring and Equipment – Environmental Procedure

Safety

SAFE 109 Hazardous Substances Control

SAFE 110 Storage of Flammable and Explosive Material

or

View the National Occupational Health and Safety Commission site at:

http://www.worksafe.gov.au/index.htm

Procedure

During all work programs minimise spillage and prevent the need for rehabilitation.

Hydrocarbons

Hydrocarbons pose potential pollution risks to aquifers and water sources. They may be toxic to humans, native animals, livestock and plants. Correct storage and handling will minimise the problems associated with hydrocarbons. The following guidelines, for the management of hydrocarbons and hazardous substances, are derived from the following federal legislation - Dangerous Goods (Transport) Act 1998 and associated Dangerous Goods (Transport)(Road and Rail) Regulations 1999, the Dangerous Goods Regulations (1992) and the Australian Dangerous Goods Code (V5 and V6).

Transportation of Hydrocarbons

Transporting more than 1000 litres

When transporting more than 1000 litres of Jet A-1, Avgas or unleaded petrol in drums, jerry-cans or other approved containers on roads accessed by the public (includes gazetted public, exploration and private routes), these regulations and codes are required to be followed at all times. Diesel is exempt from these guidelines if the quantity is greater than 1000 litres. However, if the diesel is mixed with one of the other hydrocarbons mentioned, and the quantity exceeds 1000 litres then these guidelines apply.

These requirements are:

- The vehicle used for transportation must be roadworthy and licensed. It must be fitted with gates and sides adequate to store drums and other approved fuel containers.
- The stack of drums must be secured against vertical and horizontal movement.
- The vehicle must carry the appropriate type and size of fire extinguisher.
- Emergency Procedure Guidelines (EPG) and detailed shipping documents must be carried. They are to be attached to or near the drivers side door. Consult Field Superviser on appropriate transport documentation.
- The vehicle must have the appropriate signage for substances carried (eg. Flammable Liquid Class 3). Signs are to be positioned at the front and rear of the vehicle.
- Ensure that safe operating procedures for loading and unloading drums are in place.
- When the substances have been dropped off then the signs and documentation must be removed.

However, if the diesel is mixed with one of the other hydrocarbons mentioned, and the quantity exceeds 1000 litres then the guidelines apply.

Transporting less than 1000 litres

When using RTE-AR or contractor vehicles to transport more than 200 litres and less than 1000 litres of Jet A-1, Avgas, unleaded petrol or diesel, the following guidelines will be adhered to:

- Secure the stack of drums against vertical and horizontal movement.
- Fit vehicles with the appropriate type and size of fire extinguisher.
- Carry and clearly display emergency procedure guidelines. Consult Field Superviser on appropriate transport documentation.
- Ensure that safe operating procedures for loading and unloading drums are in place.

All staff and contractors while travelling on any road will follow these guidelines. This includes both gazetted roads and all exploration and private routes.

Storage

- Storage areas at camps will be located a safe distance from accommodation facilities and sensitive environmental areas such as watercourses.

- Drums should be laid on their side with the bungs in a horizontal position. This will prevent moisture collected on the drum lid seeping into the drum.
- Hydrocarbons will be stored in bunded areas located at each campsite. There are two exceptions, which include:
    - Volumes, in individual sealed containers, of less than 250 litres; and
    - bulk mobile tankers.

  For total volumes less than 1000 litres, three sided bunds are acceptable. That is, provided they are designed to contain more than 25% of the total volume stored at any time; or, 110% of the largest container, whichever is the greater.

  To minimise the potential impact from bulk mobile tankers, the tanker should be parked and have limited movement around the site. Where possible, avoid taking the tank on rough tracks. This is particularly the case when rigs need to be refuelled.
- Bunding of longer-term storage areas will meet AS19409 (a copy will be made available on request), particularly for above ground fuel tanks. Bunds will be constructed of impervious material and the capacity will be 25% of the total volume stored at any time; or, 110% of the largest container, whichever is the greater. Bunds will be constructed at ground level with material from the perimeter being used to form a wall and not dug out from within the bunded area.
- Safety precautions will be implemented at all hydrocarbon storage areas to minimise the risk of fire. A minimum of 3m around storage areas must be kept free of vegetation. Hence, locate hydrocarbons in areas that will have a minimal disturbance to vegetation eg. naturally cleared areas.
- MSDS sheets must be on site and stored in a designated, easy to access, visible area (ie. safety folder). They must be available for all hazardous products and personnel on site.

Use

Refuelling facilities, vehicle and generator servicing areas, fuel storage areas and generators located at campsites will be managed to minimise both the risk of spillage occurring and the damage to the environment (should spillage occur). Procedures will include:

- Bunding storage and servicing areas.
- Clean-up of spillage.
- Treatment or removal of soil affected by the hydrocarbon spillage.

- Sumps will be constructed at drill sites to contain run off and spillage where necessary due to the type of drilling and ground conditions, landform, and proximity to a watercourse or other factors.

- Generally drilling equipment will be serviced at the drill site, adhering to all procedures to minimise spillage. In the case of refuelling and emergency servicing, any spillage of oils and fuels will be contained and further spillage captured in drums or similar approved storage containers.
- Capture all spillage, for example by spreading hessian groundsheets, or other absorbent material, directly under refuelling/servicing operations;
- Ensure that all liquid containment's, including fuel tank bunds, have a volume of 110% of the total volume of hydrocarbon or hazardous substances;
- Place fuel tank bunds under waterproof cover(s) to prevent rainwater mixing with spilled hydrocarbon within the bund. Temporary covers such as waterproof tarpaulins are acceptable.

Do not discharge hazardous substances to watercourses, water storage or ground water areas.

Waste Management

Collection of Waste oil

- At campsites, drums or containers labelled 'Waste Oil Only' will be stored with other hydrocarbon and hazardous substance liquid containments (eg. bulk fuel tanks) in a bunded area. These drums are to be used for the disposal/storage of any waste oils that have been generated during the servicing of drill rigs, ancillary equipment, vehicles and camp generators.
- The labelled drums must have funnels fitted to prevent any spillage while transferring waste oil into the drums. Oil filters should also be emptied into the waste oil drums.
- When nearly full, the drums should be disposed of at approved waste oil disposal sites

Disposal of empty drums and containers

- Used oil and hydrocarbons must be placed in a clearly marked sealed container and taken off site to a recognised treatment plant.
- Minor spills of less than 20 litres may be treated by digging out and respreading soil over the ground surface then breaking up the surface with a pick, rake or scarifier.
- All empty fuel and oil drums must be taken off site from each project area on completion of the drilling or reconnaissance program being undertaken, and re-used or delivered to the nearest authorised land fill.

Rehabilitation

- Spillage of hydrocarbons must be cleaned up immediately. Emergency Procedures described in Emergency Procedures for Hydrocarbon Spills are to be followed.
- For a major spillage excavate the contaminated material and dispose the contaminated material at an appropriate disposal area. Rehabilitate the spillage site as soon as is practicable.
- When drill sites are being rehabilitated, soil contaminated by minor amounts of hydrocarbons will be spread thinly over areas prior to ripping.

Monitoring

- An environmental monitoring station must be set up at the site of any major storage and refuelling facility. The site is to be photographed before ground disturbance and monitored during work and after rehabilitation.
- Any sites where a spill has occurred must also be monitored after rehabilitation.

Hazardous Substances

Hazardous Substances include chemicals, cleaning products and other associated substances such as brake fluid.

Some Hazardous Substances pose potential pollution risks to aquifers and water sources, and may be toxic to humans, native animals, livestock and plants. Correct storage and handling of chemicals minimises the problems associated with the generation of waste materials.

Transportation of Hazardous Substances

- All transport of Hazardous Substances will comply with applicable Government regulations and MSDS sheets.
- Transport on tracks and non-gazetted roads will also comply with regulations applicable to gazetted roads, where relevant, in relation to safety and the minimisation of environmental risks.

Storage

- All Hazardous Substances will be stored in clearly labelled containers in a location and manner that will minimise the chance of adverse environmental impacts occurring.
- Hazardous liquids or those stored in large volumes (>200 litres) will be stored in bunded areas.

- All Hazardous Substances will be stored in approved containers and under conditions recommended by the manufacturer. These will include secure storage where required (eg. locked cupboard or compound), appropriate temperature, and storage away from accommodation, campfires and cooking areas.
- Incompatible materials must be stored separately.

Use

- All staff and contract employees using Hazardous Substances will be trained in the procedures necessary to minimise environmental impacts potentially resulting from their use, and procedures to follow in the event of an accident or spillage.
- MSDS must be available for all such substances and users will be familiar with the relevant sections of these documents.

Waste Management

- Unused Hazardous Substances and their containers must be disposed of in the manner prescribed by the manufacturer, with due attention given to minimising any potential environmental impacts. Where required, substances will be delivered to registered disposal sites.

Rehabilitation

- Hazardous Substance spillage must be cleaned up immediately, following procedures described in Emergency control procedures for Chemicals and Dangerous Goods.
- Where necessary, clean up procedures must include the removal of ground contaminated by chemical spills and its transfer to an approved disposal site.
- If a spill occurs on hard bedrock material it must be contained and any material that has pooled on the surface collected.
- Recovered material will be stored in containers and delivered to the nearest approved waste disposal facility. All actions associated with spill responses must comply with RTE safety procedures.

Monitoring

- An environmental monitoring station will be set up at the site of any major storage and refuelling facility. The site will be photographed before ground disturbance and monitored during work and after rehabilitation.
- Any sites were a spill has occurred will also be monitored after rehabilitation.

Definitions

MSDS – Material Safety Data Sheets

Documentation

Refer to EMP

Refer to the ***Dangerous Goods*** – *Initial Emergency Response Guide* (Standards Australia / Standards New Zealand)

Dangerous Goods Driver's Manual. Road Transport Training Council. 1999.

Hydrocarbon and Hazardous substance Checklist

Project:	Leader:	Date:

General Guidelines

	✓ ✕(N/A)
Has the need for Hydrocarbons and hazardous substance use and storage been identified and planned for?	☐

Hydrocarbons

Transportation

Is the vehicle being used to transport hydrocarbons roadworthy, licensed and fitted with gates and sides appropriate to store drums? ☐

Are safe operating procedures established and in use for the loading and unloading of drums? ☐

Is the vehicle carrying the following:

- Appropriate fire extinguisher ☐
- Appropriate signage ☐
- Emergency procedure guidelines ☐
- Detailed shipping documents ☐
- Appropriate MSDS ☐

Storage

Are hydrocarbons stored a safe distance from camp and any environmentally sensitive areas such as watercourses? ☐

Is the storage area located within a correctly sized and constructed bund? ☐

Are drums stored on their side with the bungs in a horizontal position? ☐

Are appropriate MSDS readily available for all stored hydrocarbons? ☐

Use

Do procedures for the use of hydrocarbons on site include:

- Safe handling for spillage prevention? ☐
- Correct equipment for servicing ie funnels? ☐
- Groundsheets or other methods to contain spillage? ☐
- Drums or containers for the collection and storage of waste material? ☐

Waste Management

Have used hydrocarbons been removed from site in sealed containers and taken to a recognised treatment plant? ☐

Have empty hydrocarbon containers been removed from site, re-cycled or disposed of in a recognised waste disposal facility? ☐

Hazardous substances

Transportation

Have MSDS for the hazardous substances to be transported been obtained, read and complied with prior to the transporting of the substance? ☐

Are safe operating procedures established and in use for the loading and unloading hazardous substances? ☐

Are the rules for transporting hydrocarbons on gazetted roads being complied with while transporting along non-gazetted roads and station tracks? ☐

Storage

Are all Hazardous Substances stored in clearly labelled containers in a location and manner that will minimise the chance of adverse environmental impacts occurring? ☐

Are all Hazardous Substances will be stored in approved sound containers and under conditions recommended by the manufacturer? ☐

Are incompatible materials stored separately? ☐

Are appropriate MSDS readily available for all stored hydrocarbons? ☐

Use

Are all staff and contract employees using Hazardous Substances trained in the procedures necessary to minimise environmental impacts which could potentially result from their use, including procedures to follow in the event of an accident or spillage? ☐

Are material Safety Data Sheets (MSDS) available for all such substances and users familiar with these? ☐

Waste Management

Have unused Hazardous Substances and their containers been disposed of in the manner described by the manufacturer? ☐

Where required, have substances been delivered to registered disposal sites? ☐

Flagging Tape Checklist

Project:	Leader:	Date:

Induction

Have all Employees and Contractors been made aware of the demarcation uses for flagging tape around the tenement?

Has the correct flagging tape been used for the following applications?

Tracks

Glow Pink ☐

Track Intersections

Glow Pink tied with Plain White ☐

Drill pads

Red

Archaeological Sites

Blue with White stripes ☐

Environmental Sites

Blue with White stripes

Grids, Survey and Sample sites

Glow Orange

Other Applications

Radiation Checklist

Project:	Leader:	Date:

Induction and Site Rules

	✓	×(N/A)
Have all Employees been given a specific radiation induction covering Safety, Environment and rules applying to radiation?	☐	

Mapping and Ground Geophysics

Have Employees been made aware of any known locations of Uranium and steps they can take to ensure minimal contamination and transportation od Uranium?	☐

Rock Chip Sampling

Have steps been taken to minimise the handling of sample?	☐
Have samples been sealed within plastic bags?	☐
Have radioactive samples been clearly labelled as radioactive?	☐

Stream Sediment and Soil Sampling

When sampling have you; Minimised the time spent handling samples?	
Sealed samples within plastic bags?	
Clearly labelled Radioactive samples?	
Cleaned down all sampling gear before leaving the area?	☐

Percussion drilling

Is water being used to suppress dust?	☐
Are all samples being collected in plastic bags?	☐
Has equipment been cleaned and a sump being used to collect surplus run off and waste water?	☐
Are all samples being monitored with a scintillometer and results recorded?	☐
Are excess samples buried in the sump?	

Diamond Drilling

Is water being used to suppress dust?	☐
Are all samples being collected in plastic bags?	☐
Has equipment been cleaned and a sump being used to collect surplus run off and waste water?	☐
Are all samples being monitored with a scintillometer and results recorded?	☐
Are excess samples buried in the sump?	

Core Cutting

Has all run off water and cuttings been collected in a sump and buried at the end of the program in a registered site?	

Transport

Are all samples sealed to eliminate radioactive dust during transport?	☐
Are all containers clearly marked as being radioactive?	☐
Has a data base of all radioactive material leaving and returning to site been established and updated accordingly?	☐

Laboratory

Has the chosen Laboratory provided documentary proof of their procedures for processing radioactive material in compliance with current legislation? Has the chosen Lab been informed prior to the dispatching of samples?	☐

Disposal and storage

Have all samples including pulps been returned to site?	☐
Have all mineralised samples been placed down drill holes prior to capping?	
Have all barren samples been buried?	

Appendix 3

Radiation Handling Procedural Documents

Deep Well Dam Radiation Procedures.pdf
U3O8 Procedures.pdf

Deep Well Dam Project Radiation Management Plan

Radiation Protection and Work Practices

Introduction

The Deep Well Dam region is potentially a uranium province. Radioactive minerals may occur in both basement and cover rock sequences and may be intersected during exploration work programmes

Definition of Radioactive Samples

Readings from the scintillometer exceeding **5x** background will be consider as 'radioactive', in which case the below procedures will be enforced

Background Value: Prior to any drilling, background scintillometer readings will be taken around the drill site and drilling equipment, prior to commencement of each drillhole. Data is to be recorded on the Rio Tinto drill site rehabilitation form.

Percussion Drilling, Diamond Drilling & Core Cutting
(These controls are to be outlined to all personnel at the site induction.)

- Only relevant personnel should be present at the drill site.
- All percussion drilling operations must use water injection to suppress dust (eg. Mud drilling -rotary mud). If wet drilling is impractical, such as during pre-collar, well fitting dust masks must be worn (AS 1715 and AS1716).
- The entire sample must be collected in a durable plastic bag.
- A sump must be used to collect any surplus run-off.
- Samples must be monitored with a scintillometer and results recorded for each -drill interval. All personnel on site must be notified of any anomalous uranium mineralisation intersected.
- All equipment must be washed down and waste water collected in a sump, prior to leaving site.
- Upon completion of the drillhole, radioactive-bearing cuttings (drilling & core cutting) and mud material will be shovelled back down the drillhole and excess sample cuttings discarded into the sump and buried (if any excess material remains, it is to be bagged and disposed of at a predetermined site).
- If collection of material is not possible, material should be covered via a tarpaulin to prevent drying out and dust production. Collection and disposal of material should be undertaken as soon as practicable.
- Personnel will wash hands before eating, drinking or smoking. **Smoking is discouraged.** A scintillometer (or hand contamination monitor) should be used to detect the presence of any radioactive material remaining on your hands or clothing. Rewashing of hands or removal of contaminated clothing is required at the drill site.
- Work clothes and boots contaminated by soil, mud or slurry should not be taken back to the accommodation area, but washed and dried before use (at drill site).

- On the completion of drilling, scintillometer readings will be recorded around the drillsite including the drill platform and sump to determine that no residual radioactivity (exceeding **5x** background) remains. Should this occur then equipment is to be washed and residual material including runoff collected and bagged. Collection and disposal of material should be undertaken as soon as practicable and disposed of at a predetermined site.

Transport

- The transport of radioactive materials is controlled by the Code of Practice for the Safe Transport of Radioactive Substances, administered by the Department of Health. Any material containing more than 500ppm U3O8 must be treated as radioactive.

- Prior to assay the grade can be estimated using a calibrated Scalar Rate Meter for surface samples, or down-hole gamma probe for drill hole samples.

- Samples will be packed in such a way to maximise shielding of mineralised samples by barren samples.

- Samples must be sealed in appropriate containers to eliminate radioactive dust during transport.

- The Radioactivity, Net Dose Rate and Transport Index will be calculated/measured and recorded.

- Transport containers must be clearly and appropriately labelled. Dangerous Goods transport documentation must accompany all radioactive freight.

- A register of all radioactive material leaving and returning site will be updated for the duration of exploration activities.

Laboratory

The laboratory must be informed prior to sending radioactive samples to its facility.

Disposal and Storage

- All sample residues (including pulps) must be returned to site upon completion of the project.

- A database containing the details of radioactive material sent from / to site will be kept.

ADDITIONAL INFORMATION

Exposure to Radiation

Exposure to radiation during exploration can occur via the following pathways
1. External radiation from sources of gamma radiation outside the body
2. Inhalation of radioactive dust
3. Inhalation of the radioactive products of radon gas
4. Surface contamination from radioactive material that may be transferred from hands to the mouth, and then swallowed.

Minimising Exposure

Although exposure to radioactive material during exploration activities is generally low, and the radiation dose is therefore small, the basic principles of minimising the effects of radiation must be adhered to.

Hygiene

Cleanliness is an important part of radiation safety. Safe work procedures to minimise the spread of radioactive material by cross contamination include:
- Suppression of dust,
- Adequate washing facilities for personnel, equipment and clothing,

Food and food preparation areas should be kept isolated from any potential contamination.

Disposal of Unwanted Samples

The following should be recorded on a plan:
- Location and depth, top and bottom contour, and total area covered.

Any radioactive samples left at site by previous explorers will also be buried.

Summary Information on Radiation Exposure

Rio Tinto Exploration has had a long involvement with uranium exploration in Australia. Experiences gained at Mary Kathleen, Westmoreland and Kintyre allow an accurate prediction to be made of the likely exposure to radiation of people engaged in various exploration activities.

The most recent data come from a database used at Kintyre to record all radiation exposures, the names of each individual who worked at Kintyre, how long they were there and what work they undertook. The following table is a summary of the measured and recorded radiation exposures.

Table 1 Radiation doses during surface exploration activities

Job category	Gamma radiation dose (mSv)	Radiation dose from inhalation of dusts (mSv)	Total (mSv)
Geologists	0.056	0.010	0.066
Field hands	0.043	0.009	0.052
Drillers	0.061	0.018	0.079
Others (e.g. safety personnel, laboratory staff etc.)	0.040	0.001	0.041

The maximum allowable radiation dose for radiation workers in Australia is 20 mSv per year. For ordinary members of the public, the maximum allowable dose is 1 mSv per year. It can be seen in the table that no employee working at Kintyre received a radiation dose that exceeded 0.4 % of the maximum allowable dose for radiation workers (8 % of the maximum allowable for members of the public).

Background radiation

In addition to the radiation dose exploration crews receive from uranium in the ground, everyone receives a radiation dose from background radiation. Background radiation doses are received no matter where you work or live. The average annual background radiation dose is about 2.4 mSv., although in some parts of the World this can be ten times greater.

Memorandum

To: **Curnamona Team**

Copy:

From: Dave Palmer

Date: **10 April, 2002** File:

Mud Drilling September 1998 PROCEDURES

Mud / RC samples

Scintillometer readings will be taken around the drill site prior to commencement of work. All cuttings and samples will be monitored for radioactivity with total count readings recorded (with magnetic susceptibility) for each sample interval.

The drill cuttings will be sampled every three metres and a representative ~2kg collected from the interval for archival at Kalkaroo. In addition small sample of washed chips and mud cuttings from each 3m interval is to be placed in a plastic percussion sample tray.

All metamorphic basement where intersected is to be sampled for multi-element geochemical analysis on a 3m basis. The sample is to be collected from the interval pile using a spear or hand trowel.

Diamond core

Diamond core is to be marked up as per procedures for un-oriented core and placed with meterage blocks in core trays. Core sampling will be based on recovery. RQD's are not required.

Magnetic susceptibility and scintillometer recordings should be made on sample intervals.

Photography of core and chip sample trays is required.

At the end of the programme representative archival cuttings/core (~250g per sample) from drillholes which best represent the geology of the areas drilled are to be collected and lodged with the necessary form to Rob Shaw at MESA Core Library, 23 Conyngham St, Glenside, SA 5063.

GEOCHEMICAL ANALYSIS

All metamorphic basement where intersected is to be sampled for multi-element geochemical analysis on a 3m basis.

Cover sediment sequences should be analysed for U, Th should total count radioactivity measurements exceed 5x background. Iron rich palaeosols horizons should also be sampled for supergene Au.

Field duplicate samples are to be collected 1:25 samples. Geochemical standards from ORE Research (silver foil packets) are to be added 1:25 samples.

The analytical suite is per AMDEL Quotation LT 0101.98. Samples are to be dispatched to AMDEL Laboratories, Osman Place, Thebarton SA 5031.

Petrological samples are to be collected on a needs basis. Samples are to be sent to

- Dr Paul Ashley, Dept Geology and Geophysics, UNE, Armidale NSW 2350

REHABILITATION

General

Due care is to be taken to prevent unnecessary environment damage and tracks and vehicular movements are to be minimised and restricted to approved access tracks only

Access routes and drillsites are to be restored to a condition that is stable and consistent with prior land use.

Cuttings Disposal and Drillhole Rehabilitation

Scintillometer readings will be taken around the drill site prior to commencement of work.

Drill sites will be photographed before and after the programme and together with the Rio Tinto rehab sheet form the basis of the rehabilitation technical report.

Where possible, cuttings and mud will be shovelled back down the drillhole upon completion of each hole, with priority to radioactive (>5x background total count) or sulphide-bearing material.

It is expected that cuttings may not fit back down the hole, if this is the case excess sample is to be stockpiled and removed from the site to a central dump at a later date (position to be determined). Should the stockpile contain radioactive material, then it should be covered via tarpaulin to prevent drying out and dust loss until disposal back down the hole. If this is not possible burial of this material will then be required at site to be determined.

Drillholes are to be capped and sites rehabilitated in accordance with PIRSA Information Guidelines E8

Scintillometer readings will be taken around the drill after site rehabilitation.

Radioactivity Control Procedures.

(These controls are to be outlined to all personnel at the site induction.)

The Olary Domain is a uranium province. Radioactive minerals occur in basement and cover rock sequences and may be identified during exploration work programmes

Exposure to Radiation

Exposure to radiation during exploration can occur via the following pathways

1. External radiation from sources of gamma radiation outside the body
2. Inhalation of radioactive dust
3. Inhalation of the radioactive products of radon gas
4. Surface contamination from radioactive material which may be transferred from hands to the mouth, and then swallowed.

Radiation Protection and Work Practices

The following risk minimisation procedures are designed to reduce radiation exposure of drill site personnel.

- Background scintillometer readings will be taken around the drill site and drilling equipment, prior to commencement of each drillhole. Data is to be recorded on the Rio Tinto drill site rehabilitation form.
- Mud drilling (rotary mud) or water injection drilling (aircore) is the recommended drilling practises to suppress dust when drilling through radioactive-bearing host sequences. The drill site should be well ventilated.
- Scintillometer readings are to be performed on sample cuttings collected for each 3m-drill interval prior to the sample being emptied from the collection bucket onto the hessian groundsheets. Should the scintillometer reading exceed 5x background the following will be enacted
    - All site personnel will be notified that scintillometer readings have exceeded 5x background.
    - Thereafter, all radioactive drill cuttings, mud and excess drill sample will be stockpiled separately on hessian. Material is to remain wet to reduce dust generation.

- Upon completion of the drillhole, radioactive-bearing cuttings and mud material will be shovelled back down the drillhole. Excess material is to be bagged in polyweave bags and labelled dangerous and disposed of at a predetermined site.

- If collection of material is not possible, material should be covered via a tarpaulin to prevent drying out and dust loss. Collection and disposal of material should be undertaken as soon as practicable.

- Personnel will wash hands before eating, drinking or smoking. **Smoking is discouraged.** A scintillometer (or hand contamination monitor) should be used to detect the presence of any radioactive material remaining on your hands or clothing. If contamination is present the scintillometer (or hand contamination monitor) “alarm” will sound. If this occurs then rewashing hands or removal contaminated clothing is required at the drill site.

- Work clothes and boots contaminated by soil, mud or slurry should not be taken back to the accommodation area, but washed and dried before use (at drill site).

- On the completion of drilling, scintillometer readings will be recorded around the drillsite including the drill platform and sump to determine that no residual radioactivity (exceeding 5x background) remains. Should this occur then equipment is to be washed and residual material including runoff collected and bagged. Again, if collection of material is not possible, material should be covered via a tarpaulin to prevent drying out and dust loss. Collection and disposal of material should be undertaken as soon as practicable and disposed of at a predetermined site.

400000 mE

450000 mE

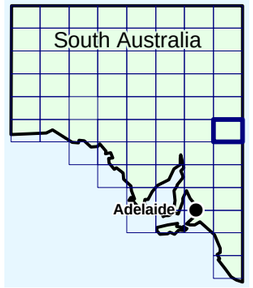
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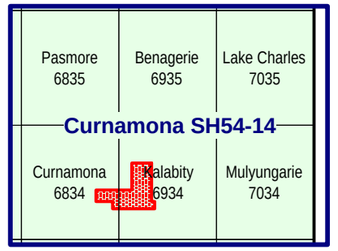
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INDEX to adjoining map sheets



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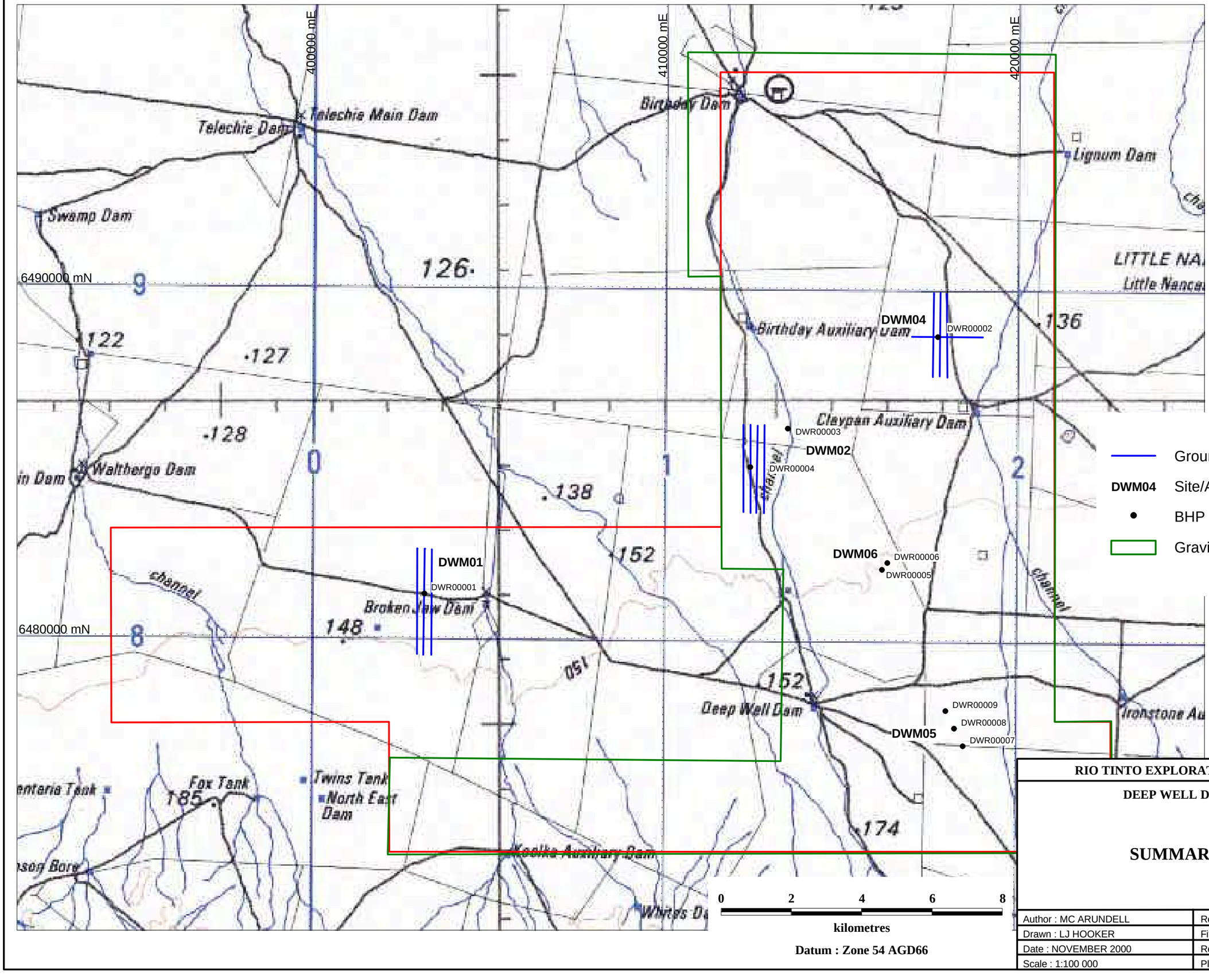
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RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

TENEMENT LOCATION PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : LJ HOOKER	File Name : 44430gen
Date : NOVEMBER 2000	Report No : 24620
Scale : 1:500 000	Plan No : WA44430p



RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

SUMMARY PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : LJ HOOKER	File Name : 44431gen
Date : NOVEMBER 2000	Report No : 24620
Scale : 1:100 000	Plan No : WA44431p

Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Final Report for the Period Ending 13 April 2003, EL2665 Deep Well Dam, Curnamona SH54-14, South Australia

Exploration Report No. 25840

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	May 2003
Author:	S R Bishop
Submitted:	D C Palmer
Distribution:	Primary Industries and Resources South Australia RTE Perth Information Centre

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SUMMARY OF ACTIVITIES

EL2665 Deep Well Dam is located within the Palaeoproterozoic Olary Domain encompassing sequences prospective for stratabound Zn-Pb and Cu-Au deposits. EL2665, a renewal of EL2016 at the end of its five-year term, was granted to Rio Tinto Exploration Pty. Limited (RTE) on 3rd November 1999.

Previous base metal exploration by CSR/Placer in the early 1990's intersected minor Zn anomalism in drill holes.

During the five years of EL2016 RTE completed geological studies, Landsat TM interpretation, captured and assessed open file geochemical data, surveyed airborne magnetics/radiometrics, regional gravity data interpretation, gravity surveys, regional lag sampling, In-Loop TEM surveys, Dipole-Dipole IP surveys, ground magnetic surveys and limited RAB drilling. No significant results were returned.

During the 1st year of EL2665, BHP Minerals (BHPM) farmed into the project, reassessed the regional aeromagnetic and gravity data, then carried out gravity and ground magnetic surveys and completed 9 RC drill holes to test various targets. The drilling failed to intersect any significant mineralisation so BHPM withdrew.

During the 2nd year RTE resumed management and completed a review of previous work to identify new targets. Several gravity/magnetic features were delineated and ranked as potential drill targets. Also considered of further interest was anomalous Cu-Au-Mo mineralisation intersected in BHPM drill hole DWR0002 and hosted by possible Bimba Formation. Eight drill holes were proposed to drill the targets identified.

During the 3rd year RTE's proposed drilling programme was held up by Native Title access issues and then postponed indefinitely.

Attempts to divest the project during 2002 and early 2003 were not successful so the EL was relinquished on 14th April 2003.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modeling		
Reprocessing of data	WAp44430.pdf WAp44431.pdf	.pdf .pdf
General research		
Report preparation	25840 Deep Well Dam.pdf	.pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	25840 Deep Well Dam V.pdf	.pdf

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LIST OF PLANS

Plan No.	Title	Scale
WAp44430	Tenement Location Plan	1:500 000
WAp44431	Previous Exploration Outline	1:100 000

1 SUMMARY

EL2665 Deep Well Dam is located within the Palaeoproterozoic Olary Domain encompassing sequences prospective for stratabound Zn-Pb and Cu-Au deposits. EL2665, a renewal of EL2016 at the end of its five-year term, was granted to Rio Tinto Exploration Pty. Limited (RTE) on 3rd November 1999.

Previous base metal exploration by CSR/Placer in the early 1990's intersected minor Zn anomalism in drill holes.

During the five years of EL2016 RTE completed geological studies, Landsat TM interpretation, captured and assessed open file geochemical data, surveyed airborne magnetics/radiometrics, regional gravity data interpretation, gravity surveys, regional lag sampling, In-Loop TEM surveys, Dipole-Dipole IP surveys, ground magnetic surveys and limited RAB drilling. No significant results were returned.

During the 1st year of EL2665, BHP Minerals (BHPM) farmed into the project, reassessed the regional aeromagnetic and gravity data, then carried out gravity and ground magnetic surveys and completed 9 RC drill holes to test various targets. The drilling failed to intersect any significant mineralisation so BHPM withdrew.

During the 2nd year RTE resumed management and completed a review of previous work to identify new targets. Several gravity/magnetic features were delineated and ranked as potential drill targets. Also considered of further interest was anomalous Cu-Au-Mo mineralisation intersected in BHPM drill hole DWR0002 and hosted by possible Bimba Formation. Eight drill holes were proposed to drill the targets identified.

During the 3rd year RTE's proposed drilling programme was held up by Native Title access issues and then postponed indefinitely.

Attempts to divest the project during 2002 and early 2003 were not successful so the EL was relinquished on 14th April 2003.

2 CONCLUSIONS AND RECOMMENDATIONS

Several untested geophysical features are prospective for base metals.

3 INTRODUCTION

EL2665 Deep Well Dam, totalling 347km^2, is located approximately 100 kilometres west of Broken Hill and 350 kilometres north east of Adelaide on the SH54-14 Curnamona 1:250 000 sheet (Plan WAp44430). The tenement is accessed via unsealed roads leading north from Olary and Manna Hill.

EL2016 was granted to CRA Exploration Pty Limited (CRAE) on 2nd September 1994. On 4th July 1997, CRAE changed its name to Rio Tinto Exploration Pty Limited. At the end of its five year term EL2016 was renewed and granted as EL2665 on 3rd November 1999 to Rio Tinto Exploration Pty Limited (RTE). BHP Minerals Pty Ltd (BHPM) farmed in and assumed management of the tenement from 30th December 1999 until 7th August 2000 when it withdrew. RTE resumed management of the tenement for the period 8th August 2000 to 14th April 2003. RTE attempted to divest the project during 2002 and early 2003 without success. On the 14th April 2003 the EL was relinquished.

EL2665 Deep Well Dam formed part of RTE's Curnamona Zinc Project located within the Northern Olary Domain of the Curnamona Province. RTE explored EL2665 for base metal deposits of sufficient size to meet its corporate objectives. Targeted mineralisation styles included stratabound/ stratiform Zn-Pb-Ag in the Proterozoic Pelite Suite and stratabound massive sulphide Cu-Zn-Co-Mn in the Bimba Formation.

This report summarises the exploration activities of RTE (and BHPM) on EL2665 during the life of the granted lease.

4 LICENCE DETAILS

Table 1: Licence Details

Tenement No.	No. Of Blocks	Tenement Name	Ownership	Relinquishment Date
EL 2665	347sq Km. (Area)	Deep Well Dam	Rio Tinto Exploration Pty Ltd. (100%)	14th April 2003

5 GEOLOGY

EL2665 Deep Well Dam is situated in the southern portion of the Palaeoproterozoic to Mesoproterozoic Curnamona Province and encompasses Willyama Supergroup meta-sedimentary and meta-igneous rocks within the Olary Domain of the Curnamona Craton.

The Olary Domain rock sequence is correlated with the adjacent Broken Hill Domain - the two Domains forming the Willyama Inlier. The Willyama Supergroup is interpreted to have been deposited within a ~1780-1680 Ma intracratonic rift and rift-platform basin. Numerous small copper and copper-gold, minor zinc-lead-silver and uranium workings/prospects occur throughout the Olary Block.

6 PREVIOUS EXPLORATION

Previous base metal exploration by CSR/Placer in the early 1990's targeted the "Bimba Formation" and "Upper Albite" stratigraphic sequences. Airborne magnetic targets were tested with ground electrical methods and drilling. Minor Zn anomalism was intersected (Stewart, 1995).

During the five years of tenure for EL2016, RTE completed geological studies, Landsat TM interpretation, captured and assessed open file geochemical data, surveyed airborne magnetics/radiometrics, regional gravity data interpretation, gravity surveys, regional lag sampling, In-Loop TEM surveys, Dipole-Dipole IP surveys, ground magnetic surveys and limited RAB drilling. No significant results were returned (Stewart, 1995; Moody and McInnes, 1996; Parkinson, 1997; Hawke, 1999 and Palmer, 1999).

During Year 1 of EL2665 BHP Minerals (BHPM) reassessed the regional aeromagnetic and gravity data then carried out gravity and ground magnetic surveys and completed 9 RC drill holes to test various targets. Overall, the drilling results failed to intersect any significant mineralisation and BHPM withdrew from the project (White and Grimley, 2000; Arundell, 2000).

During the Year 2 RTE completed a review of previous work to identify new targets. Several prospective gravity/magnetic features were delineated and ranked as potential drill targets. Also considered of further interest was anomalous Cu-Au-Mo mineralisation intersected in BHPM drill hole DWR0002 and hosted by possible Bimba Formation. Eight drill holes were proposed to drill the targets identified (Arundell, 2002).

During the Year 3 RTE reviewed of the status of the Deep Well Dam project against its other base metal projects around Australia. A proposal to drill eight drill holes to test targets identified the previous year was held up by Native Title access issues and then postponed indefinitely. RTE decided to farm out the project on the basis that the untested exploration targets were sufficiently prospective to maintain an interest in the project. All available historical data was packaged and presented to various potential joint venture partners during 2002 and early 2003 (Bishop, 2003).

Attempts to divest the project were not successful so the EL was relinquished on the 14th April 2003. The location of previous surveys, grids and drill holes are provided on Plan WAp44431.

7 ENVIRONMENT

All rehabilitation has been completed in accordance with the RTE Environmental Management Plan (Christie *et. al*, 2002). No significant environmental issues remain. No further field-based exploration was carried out by RTE following compilation of the EMP report.

8 EXPLORATION EXPENDITURE

RTE spent $1888 on exploration for the period 3rd November 2002 to 14th April 2003 on EL2665 (Deep Well Dam) as listed below.

Description	Amount $
Computing Services	72.15
Cont Exploration- Ext	354.37
Field & Transport	309.34
Gen Office Supp & Comm	30.95
Indirect Costs	137.49
Payroll & Benefits	741.86
Recoveries & Income	-5.93
Rent & Property	152.12
Sundry Prof & Other	4.90
Tenement Payments	76.29
Travel & Accomodation	14.23
Grand Total	1,887.77

Total cumulative exploration expenditure for the Deep Well Dam project (i.e., EL2665 and EL2016) was $492,709 by RTE and $196,548 by BHPM, for a grand total of $689,257.

REFERENCES

References in order of year of compilation.

Bishop S. R.	2003	Annual Report for the Period Ending 2 November 2002, EL2665, Deep Well Dam, Curnamona SH54-14, South Australia. RTE Report No. 25802.
Christie A., Smith S. and Raddock A.	2002	Environmental Management Plan. EL2665 Deep Well Dam. Curnamona SH5414, South Australia. RTE Exploration Report 25180.
Arundell M.C.	2002	Annual Report for the Period 3rd November 2000 to 2nd November 2001. EL2665 Deep Well Dam. South Australia. RTE Exploration Report 25195.
Arundell M.C.	2000	Annual Report for the Period 3rd November 1999 to 2nd November 2000, EL2665 Deep Well Dam, SA. Rio Tinto Report No 24620
White M. and Grimley M.	2000	EL 2665, Deep Well Dam, Lake Charles project, South Australia, final joint venture report for the period ended 7 August 2000. BHPM Report. Rio Tinto Report No. 24627.
Palmer D.C.	1999	EL 2016, Deep Well Dam, South Australia, Fifth Annual Report for the Period 2/9/98 to 1/9/99. Rio Tinto Report No 24185
Hawke P.	1999	EL 2016 – Deep Well Dam Fourth Annual Report 2/9/97 to 1/9/98. Rio Tinto Report 24124
Parkinson R.G.	1997	Annual Report for Deep Well Dam EL 2016, South Australia for the period 2nd September 1996 to 1st September 1997. CRAE Report No 23702
Moody T.C. and McInnes D.J.	1996	Annual Report for the Period Ending 1 September 1996. EL 2016 Deep Well Dam, South Australia. CRAE Report 23009
Stewart W.A.	1995	Annual Report for Deep Well Dam EL 2016, South Australia for the period ended 1 September 1995. CRAE report. 21178

LOCALITY

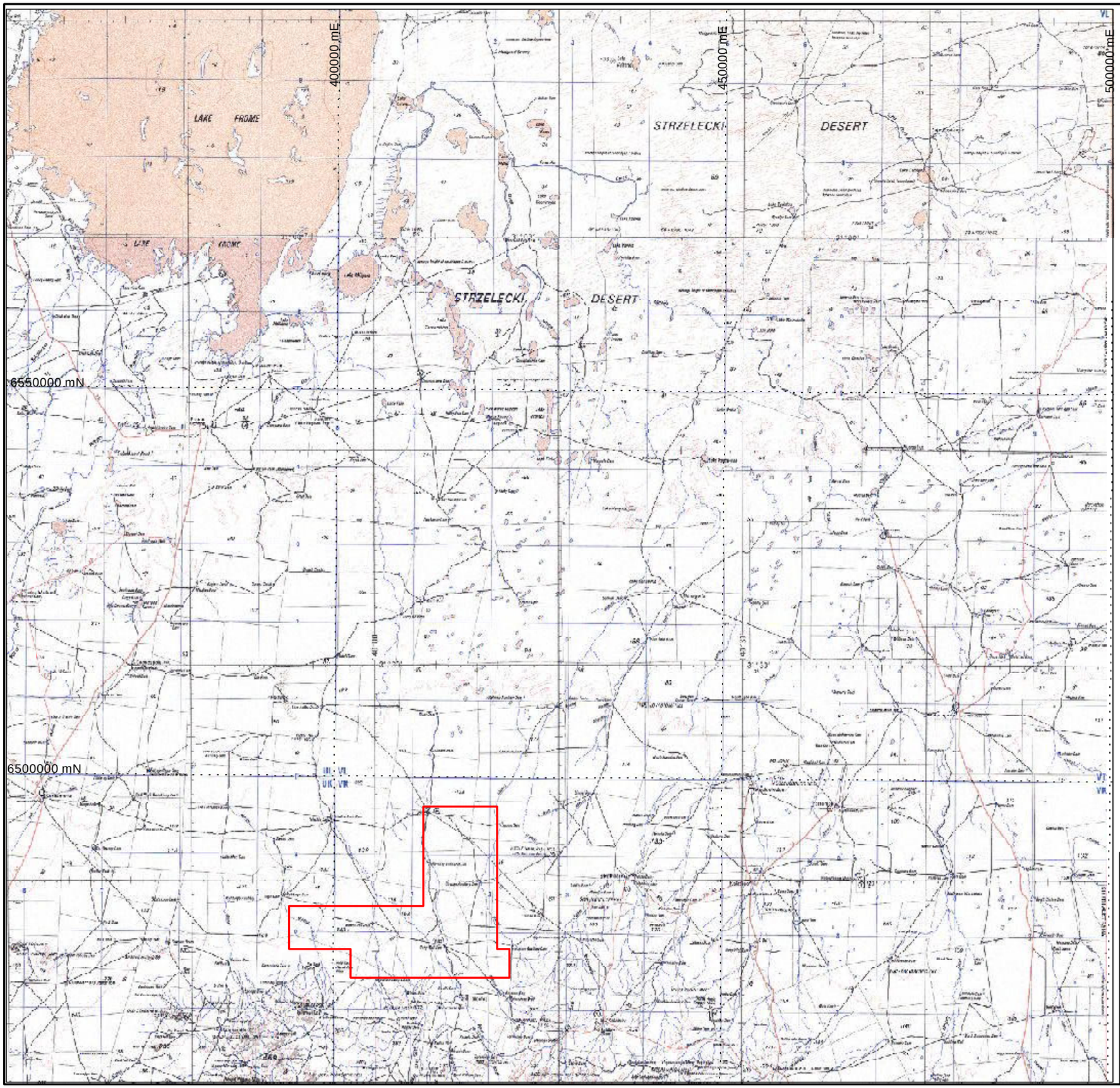
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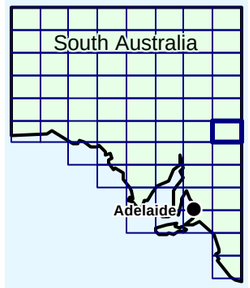
DESCRIPTOR

This final report describes the exploration activities of RTE on EL2665 (Deep Well Dam) for the period 3rd November 2002 to 14th April 2003. It also summarises the results of RTE's (and BHPM's) exploration activities for the nine years of the EL tenure. Attempts to divest the project during 2002 and early 2003 were not successful and the EL was relinquished on 14th April 2003. A total of $689,257 was spent on exploring the project area over nine years.

KEYWORDS

Bimba Formation, Copper, Curnamona Province, Gold, Olary Domain, Pelite Suite, Proterozoic, Willyama Inlier, Zinc





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Pasmore 6835	Benagerie 6935	Lake Charles 7035
Curnamona 6834	**Curnamona SH54-14** Kalabity 6934	Mulyungarie 7034

100 000 &250 000 map sheets

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kilometres

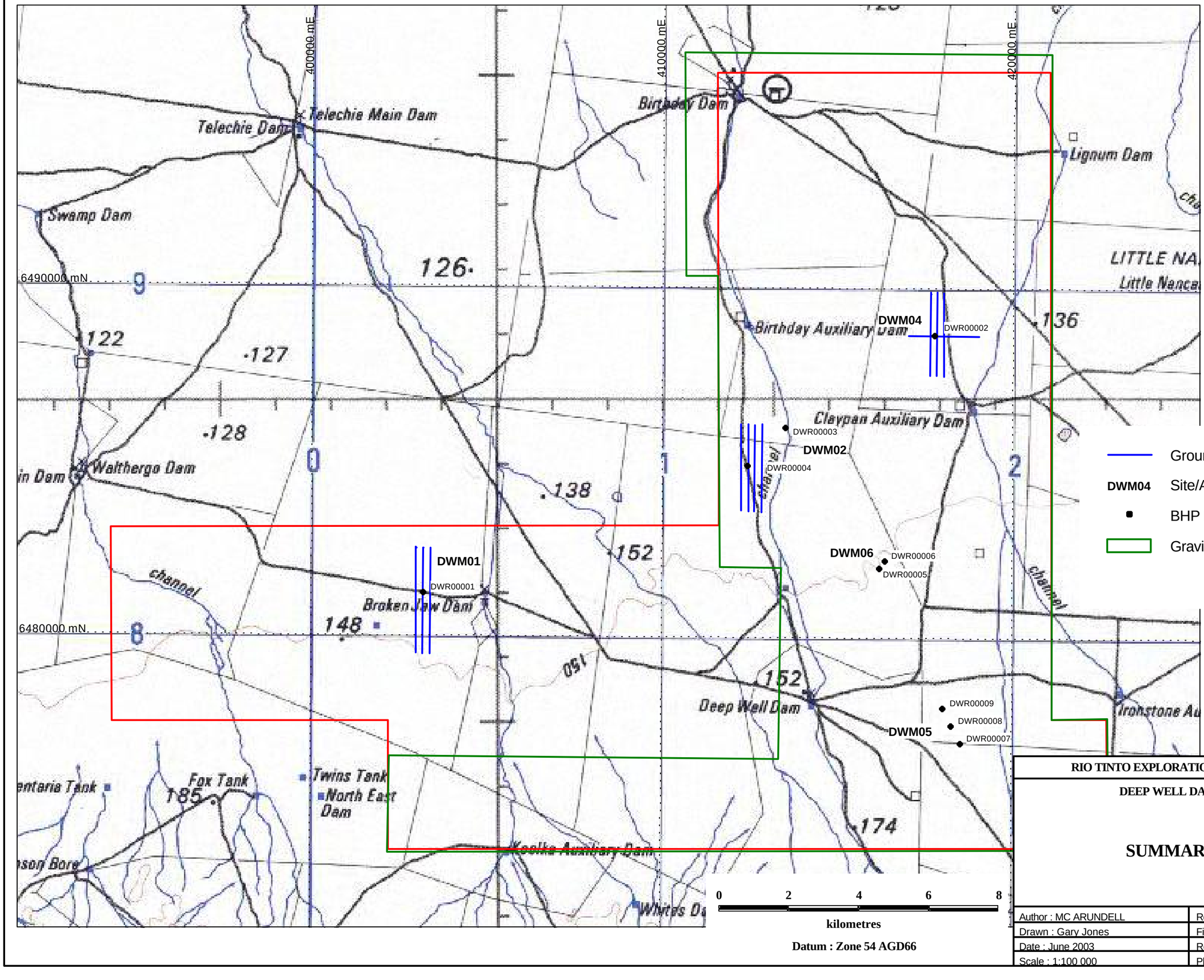
Datum : Zone 54 AGD66

RIO TINTO EXPLORATION PTY. LIMITED

DEEP WELL DAM EL2665

TENEMENT LOCATION PLAN

Author : MC ARUNDELL	Ref : CURNAMONA SH54-14
Drawn : Gary Jones	File Name : 44430gen
Date : June 2003	Report No : 25840
Scale : 1:500 000	Plan No : WAp44430


400000 mE
410000 mE
420000 mE
6490000 mN
6480000 mN
Telechie Main Dam
Telechie Dam
Swamp Dam
Birthday Dam
Lignum Dam
Birthday Auxiliary Dam
Claypan Auxiliary Dam
Walthergo Dam
Broken Jaw Dam
Deep Well Dam
Ironstone Au
Twins Tank
North East Dam
Fox Tank
channel
DWM01
DWM02
DWM04
DWM05
DWM06
DWR00001
DWR00002
DWR00003
DWR00004
DWR00005
DWR00006
DWR00007
DWR00008
DWR00009
126
127
128
122
136
138
152
148
174
185
0
2
4
6
8
kilometres
Datum : Zone 54 AGD66
Ground Magnetics Grid Line
Site/Anomaly
BHP RC Drillhole
Gravity Survey
RIO TINTO EXPLORATION PTY. LIMITED
DEEP WELL DAM EL2665
SUMMARY PLAN
Author : MC ARUNDELL
Ref : CURNAMONA SH54-14
Drawn : Gary Jones
File Name : 44431gen
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Scale : 1:100 000
Plan No : WAp44431