Open File Envelope No. 8448

EL 1720

MOUNT DENISON

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 13/5/1991 TO 22/3/1993

Submitted by CRA Exploration Pty Ltd 1993

© 13/5/1993

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Minerals and Energy Resources

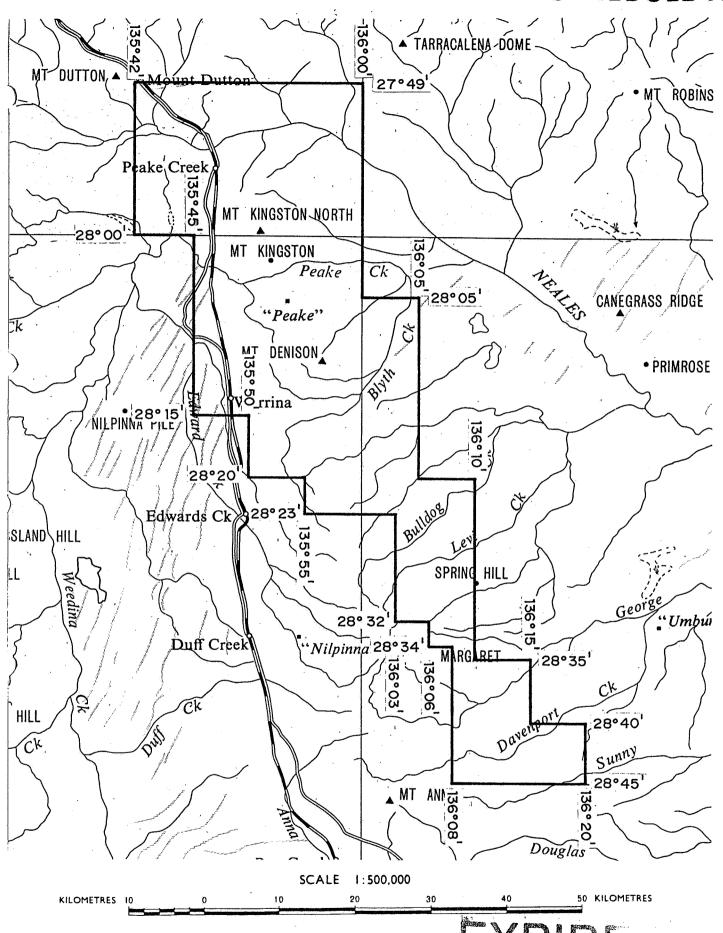
7th Floor

101 Grenfell Street, Adelaide 5000

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



SCHEDULE A



APPLICANT: CRA EXPLORATION P/L

DM: 348/90 AREA: 2298 square kilometres (approx.)

1:250 000 PLANS: OODNADATTA, WARRINA

LOCALITY: NORTHERN PEAKE AND DENISON RANGES-Approx. 80 km. South of OODNADATTA

DATE GRANTED: 13.5.91

DATE EXPIRED: 12.5.9293

EL No: 1720

ENVELOPE 8448

TENEMENT:

EL 1720, Mount Denison

TENEMENT HOLDER:

CRA Exploration Pty Ltd

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SEPARATELY HELD DATA

DATA TAPES (held by Information Services Branch):

Survey no. 91SA8. Airborne mag/rad.

CRA EXPLORATION PTY. LIMITED

FIRST QUARTERLY REPORT FOR MOUNT DENISON EL 1720, SOUTH AUSTRALIA, FOR THE PERIOD ENDING 12TH AUGUST, 1991

AUTHOR:

M.J. DONNELLY

COPIES TO:

SADME

CIS CANBERRA

DATE:

9TH AUGUST, 1991

SUBMITTED BY:

ACCEPTED BY:

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Plan No. <u>Title</u>

Scale

SAa 5485

Mount Denison EL 1720, SA, Location Plan

1:250 000

1. SUMMARY

Data tapes of aerial magnetic and radiometric surveys flown in the early 1980's for Ashton Mining Ltd. and BHP Minerals Ltd. have been acquired. Processing of the previously unprocessed radiometric data has commenced.

No field work was undertaken during the quarter.

2. INTRODUCTION

Mount Denison EL 1720 is situated within the Peake and Denison Ranges and covers an area of approximately 2298 sq km (plan SAa 5485). The southern boundary to EL 1720 is located 20 km north-west of William Creek. The exploration licence was granted to CRA Exploration Pty. Limited (CRAE) on 13th May, 1991 for a period of one year.

The area was selected on the basis of its potential for U and base metal mineralisation. The licence area also has potential for diamond and Au mineralisation.

This report details work completed during the first quarter of tenure of Mount Denison EL 1720 for the period ending 12th August, 1991.

3. GEOLOGY

The Peake and Denison Ranges comprise four Pre-Cambrian inliers in the south-west portion of the Great Artesian Basin (Ambrose et al, 1981). Mount Denison EL 1720 covers the Algebuckina and Denison Inliers and a portion of the Margaret Inlier. The inliers are surrounded by Mesozoic and Cainozoic sediments.

The Early Proterozoic Peake Metamorphics consist of basalt, quartzite, various schists, gneiss, pegmatite, rhyolite and marble. They were intruded by the Middle Proterozoic Wirriecurrie Granite. The Peake Metamorphics are unconformably overlain by a thick sequence of Adelaidean sediments. Diapiric breccia outcrops in all of the inliers. Adelaidean sediments of the Margaret Inlier have been intruded by the Ordovician Bungadillina Monzonite. Permian sediments outcrop along the western flank of the Mt. Dutton and Margaret Inliers outside of EL 1720.

4. PREVIOUS WORK

Previous work on EL 1720 includes mining of copper prior to 1920 and more recent exploration principally for base metals, U, diamonds, Au and coal.

Exploration for base metals has concentrated upon Cu. Regional stream sediment sampling by North Broken Hill in the period 1966-68 outlined the known Cu occurrences. These old workings have been the subject of soil sampling, IP and magnetic surveys and drill testing by a number of companies.

Airborne radiometric surveys over the inliers by Australasian Mining Corp. (SML 270) and Uranerz (EL 33 and EL 110) followed by ground follow up and limited drilling has located no significant U mineralisation. The best result was an intersection of 4 ft @ 270 ppm U₃O₈ from 82 ft in quartz biotite feldspar gneiss in an Australasian Mining Corp. percussion drill hole. Exploration for Roxby-style targets has been conducted by BHP Minerals Ltd. (EL 1291). Sedimentary U within the Jurassic Algebuckina Formation has been targetted in drilling by Chevron Exploration (EL 22), mostly outside EL 1720.

Diamonds have been recovered from stream sediments and in-situ Jurassic Algebuckina Formation by Stockdale Prospecting (EL 968) in the Edwards Creek area, outside of EL 1720. The Peake and Denison Ranges have been subject to gravel sampling from which kimberlitic indicator minerals have been found, aeromagnetic surveys and drill testing of magnetic anomalies. No kimberlitic rock nor any primary source for diamond has been discovered to date.

Geochemical sampling programmes for Au have been conducted without significant success by Western Mining Corporation (EL 192), Carpentaria Exploration Co. (EL 888), Utah Development Co. (EL 968) and J.F. Allender Exploration (EL 1621).

Extensions of Permian coal from the Boorthanna Trough have been explored for to the west of the Pre-Cambrian inliers by Getty Oil Development Co. Ltd. (EL 1284) and Mines Admin. & Teton Exploration Drilling (EL 336).

5. WORK COMPLETED DURING THE QUARTER

Data tapes of the aerial magnetic and radiometric surveys flown for Ashton Mining Ltd. in 1981 (EL 787 & 968) and BHP Minerals Limited in 1983 (EL 1133) have been acquired from SADME. The radiometric data from these surveys has not been previously processed. CRAE has commenced processing these geophysical data tapes. Results of this work shall be reported at a later date.

These two surveys plus surveys flown by Stockdale Prospecting (EL 491) and CRAE (EL 761) in 1980 should provide complete radiometric coverage of EL 1720. The next phase of investigation shall depend on the results of this processing and interpretation.

No field work was conducted over EL 1720 during the first quarter of tenure.

M. Gonnelly M.J. DONNELLY

MJD/pq

EXPENDITURE

Expenditure for the period ending 31st July, 1991, the nearest accounting period amounted to \$14 869, as detailed below.

		\$
Payroll & Benefits		5 190
Contractors		750
Office General		110
District Administration		5 862
Regional Overheads		2 957
	Total	\$14 869

REFERENCES

Ambrose, G.J., Flint, R.B. &

Precambrian and Palaeozoic Geology of the Peake and Denison

Ranges.

Webb, A.W., 1981 Bull. Geol. Surv. S. Aust., 50.

LOCATION

Oodnadatta Warrina

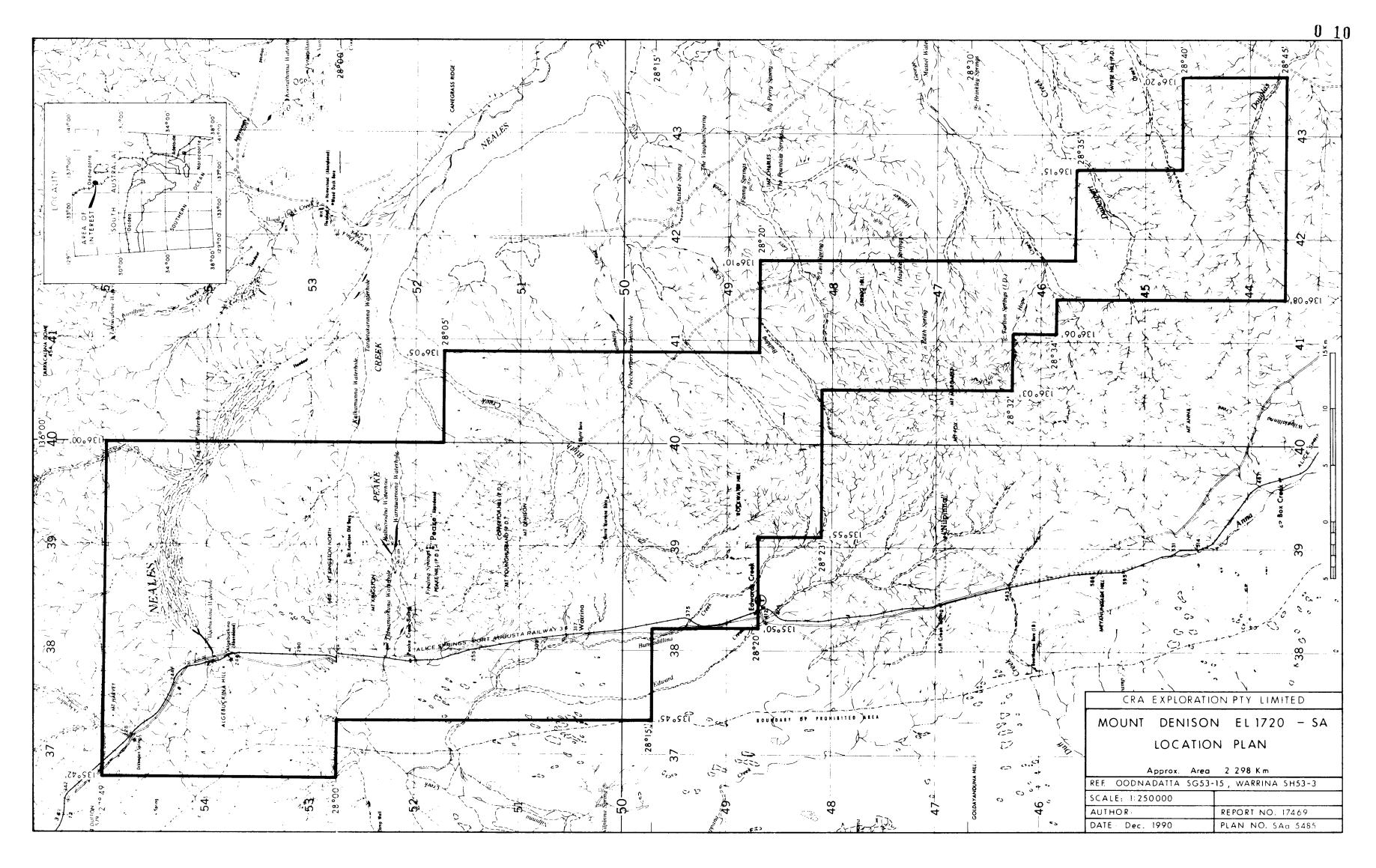
SG5315

1:250 000 sheet

SH5303 1:250 000 sheet

KEYWORDS

Copper, Diamonds, Proterozoic, Uranium



CRA EXPLORATION PTY. LIMITED

SECOND QUARTERLY REPORT FOR MOUNT DENISON EL 1720, SOUTH AUSTRALIA, FOR THE PERIOD ENDING 12TH NOVEMBER, 1991

AUTHOR:

M.J. DONNELLY

COPIES TO:

SADME

CIS CANBERRA

DATE:

7TH NOVEMBER, 1991

SUBMITTED BY: M. Bonnelly

ACCEPTED BY:

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SAa 5485	Mount Denison EL 1720, SA, Location Plan	1:250 000
SAa 5641	Mount Denison EL 1720, SA, Airborne Magnetic/Radio- metric Survey Location Plan	1:250 000

1. SUMMARY

Data from previous airborne magnetic/radiometric surveys has been acquired and collated. To provide complete coverage, an aerial survey covering 880 sq km of EL 1720 was flown during the quarter. Results from this survey are not yet available.

2. CONCLUSIONS & RECOMMENDATIONS

Further work will depend on results from the airborne survey.

3. INTRODUCTION

Mount Denison EL 1720 is situated within the Peake and Denison Ranges and covers an area of approximately 2298 sq km (plan SAa 5485). The southern boundary to EL 1720 is located 20 km northwest of William Creek. The exploration licence was granted to CRA Exploration Pty. Limited (CRAE) on 13th May, 1991 for a period of one year.

The area was selected on the basis of its potential for U and base metal mineralisation. The licence area also has potential for diamond and Au mineralisation.

This report details work completed during the second quarter of tenure of Mount Denison EL 1720 for the period ending 12th November, 1991.

4. WORK COMPLETED DURING THE QUARTER

Data from airborne magnetic and radiometric surveys flown for Ashton Mining Ltd. in 1981 (EL 787 and EL 968), BHP Minerals Limited in 1983 (EL 1133) and CRAE in 1980 (EL 761) has been acquired and collated. The data from the Stockdale Prospecting survey (EL 491) (s) not available in digital form.

To complete digital coverage over EL 1720, an airborne magnetic/radiometric survey was flown over an 880 sq km area (plan SAa 5641). This area covers the Denison Inlier plus surrounding Cainozoic and Mesozoic sediments. The survey specifications are as follows:

Flown by

Kevron

Line spacing:

300 m

Line direction:

N-S

Flying height:

80 m AGL

Instruments:

Cesium vapour magnetometer

Spectrometer - 256 channel, 33 litre crystal volume

Results from this survey are not yet available.

M. Bornelly M.J. DONNELLY

MJD/pq

EXPENDITURE

Expenditure for the period ending 31st October, 1991, the nearest accounting period amounted to \$61757.00, as detailed below.

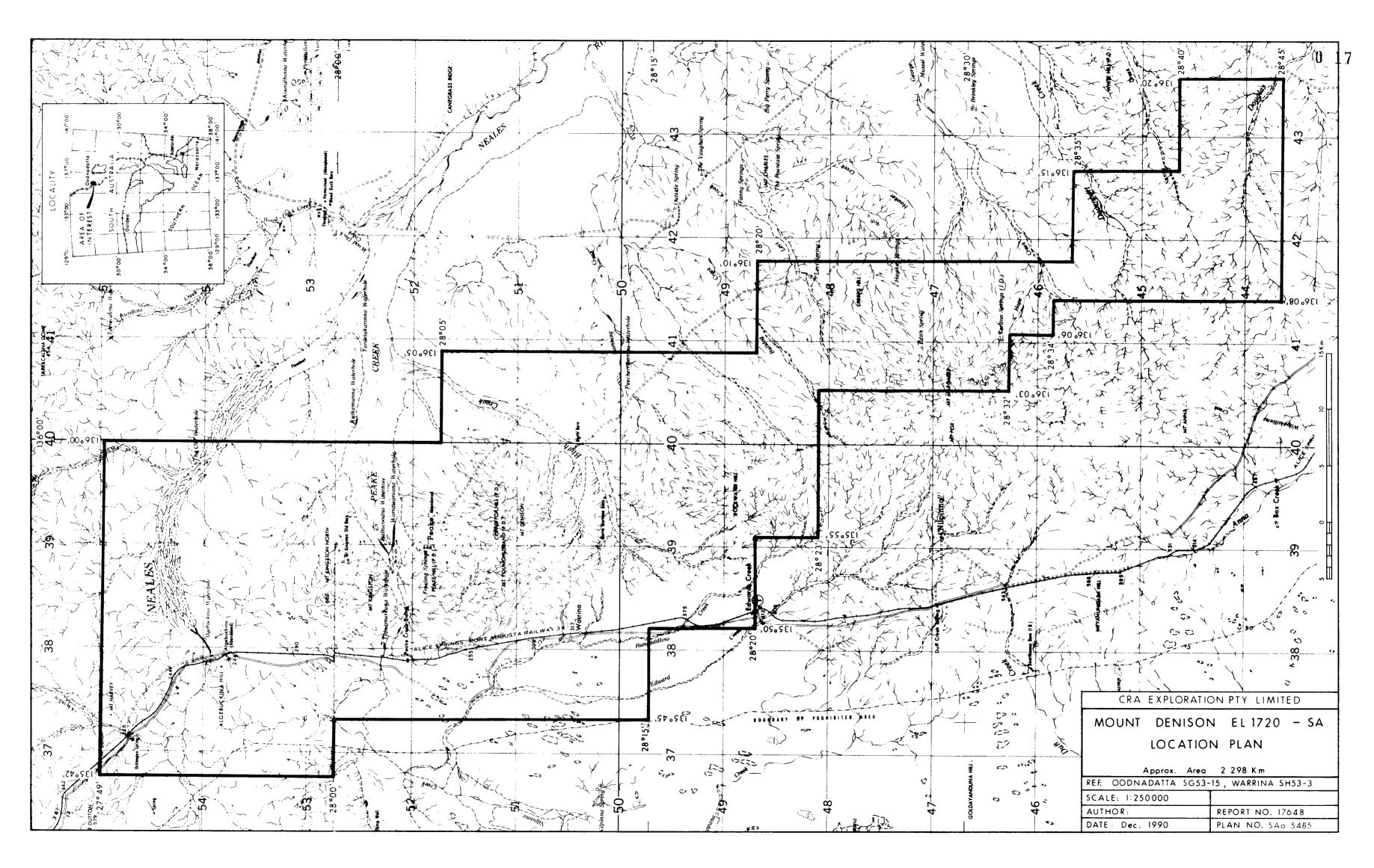
		\$
Payroll & Benefits		5 664
Field & Transport		1 743
Contractors		50 750
Travel & Accommodation		66
District Administration		2 227
Office Supplies		131
Regional Overheads		1 176
	Total	\$61 757

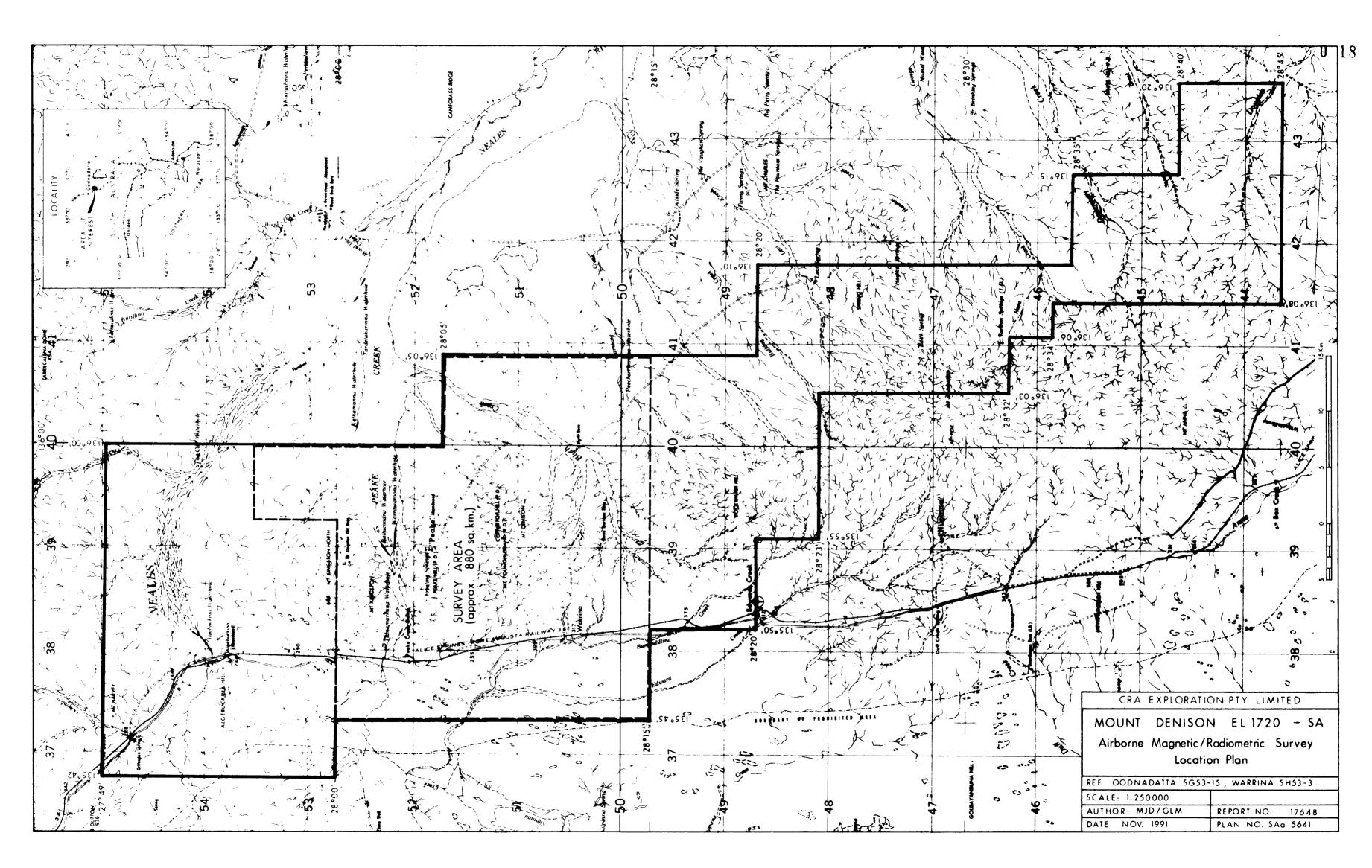
LOCATION

Oodnadatta Warrina SG5315 SH5303 1:250 000 sheet 1:250 000 sheet

KEYWORDS

Geophys Magnetics, Geophys Radiometrics





CRA EXPLORATION PTY. LIMITED

THIRD QUARTERLY REPORT FOR MOUNT DENISON EL 1720, SOUTH AUSTRALIA, FOR THE PERIOD ENDING 12TH FEBRUARY, 1992

AUTHOR:

M.J. DONNELLY

COPIES TO:

SADME

CIS CANBERRA

DATE:

10TH FEBRUARY, 1992

SUBMITTED BY: M. Donnelly

ACCEPTED BY:

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SAa 5680	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, Total Magnetic Intensity Contours	1: 50 000
SAa 5681	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, Flight Path	1: 50 000
SAa 5682	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, T.M.I. Stacked Profiles	1: 50 000
SAa 5693	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, Total Magnetic Intensity Contours	1: 50 000
SAa 5694	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, Flight Path	1: 50 000
SAa 5695	Mount Denison EL 1720, SA, Mt. Charles Airborne Geophysical Survey, Total Magnetic Intensity Stacked Profiles	1: 50 000

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Appendix I Logistics Report Mount Charles Airborne Geophysical Survey

1. SUMMARY

Results for the airborne magnetic/radiometric survey over a portion of EL 1720 were received.

2. INTRODUCTION

Mount Denison EL 1720 is situated within the Peake and Denison Ranges and covers an area of approximately 2298 sq km (plan SAa 5485). The southern boundary to EL 1720 is located 20 km northwest of William Creek. The exploration licence was granted to CRA Exploration Pty. Limited (CRAE) on 13th May, 1991 for a period of one year.

The area was selected on the basis of its potential for U and base metal mineralisation. The licence area also has potential for diamond and Au mineralisation.

This report details work completed during the third quarter of tenure of Mount Denison EL 1720 for the period ending 12th February, 1992.

3. WORK COMPLETED DURING THE OUARTER

Results for the Mt. Charles airborne magnetic/radiometric survey flown over an 880 sq km area of EL 1720, plus the adjoining Mt. Charles EL 1756, were received. The logistics report provided to CRAE by the contractor Kevron Geophysics Pty. Limited is presented as Appendix I. Total magnetic intensity contours, flight paths and total magnetic intensity stacked profiles over EL 1720 are presented as plans SAA 5680-5682 and 5693-5695.

Follow up of radiometric uranium channel anomalies and selected magnetic anomalies is to be conducted in the coming quarter.

M.J. DONNELLY

M. Donnelly

MJD/pq

EXPENDITURE

Expenditure for the three month period ended 31st January, 1992, the nearest accounting period amounted to \$4 775, as detailed below.

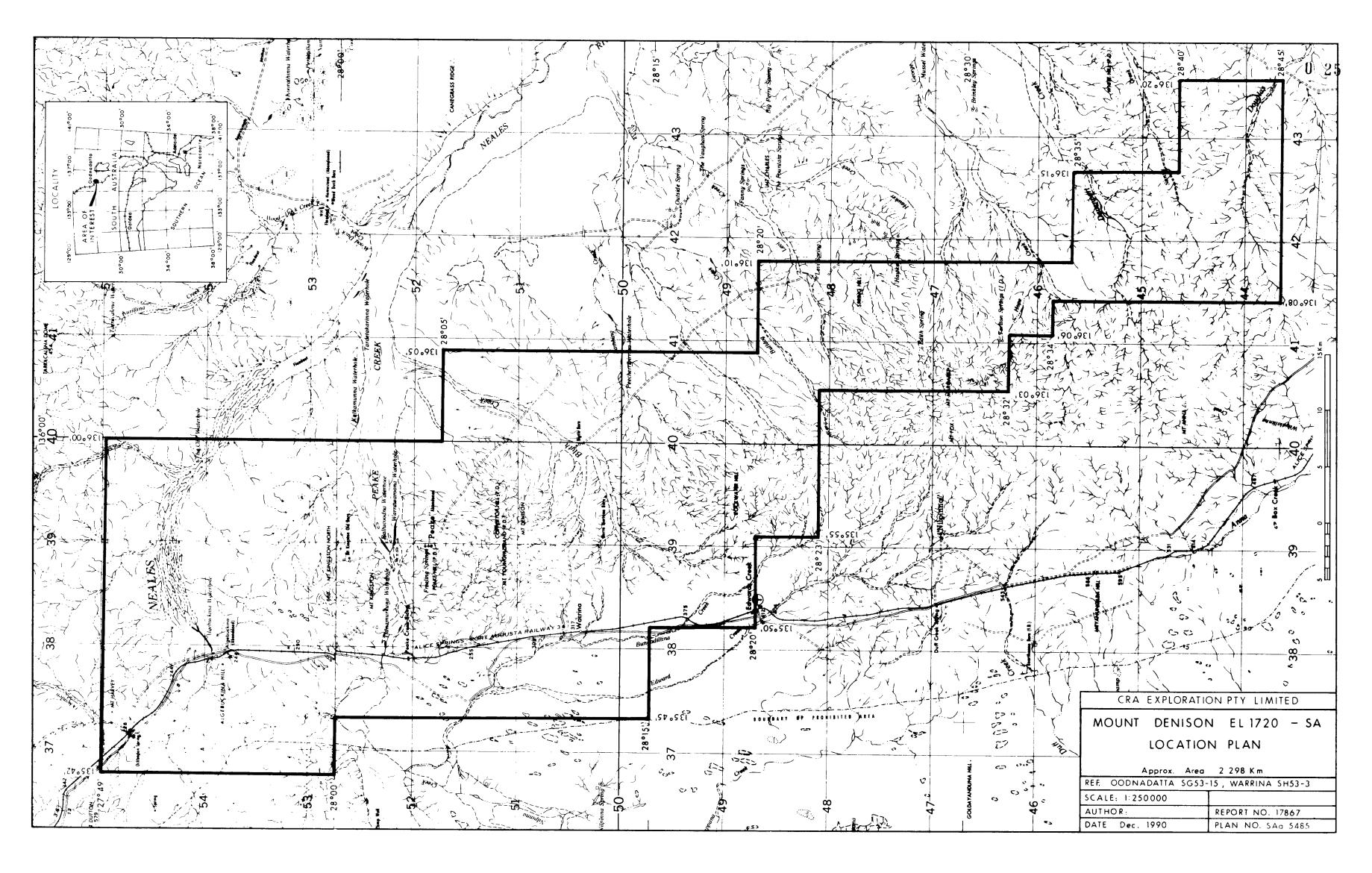
		\$
Payroll & Benefits		2 057
Field & Transport		1 584
Office Supplies		260
District Administration		622
Regional Overheads		252
	Total	\$4 775

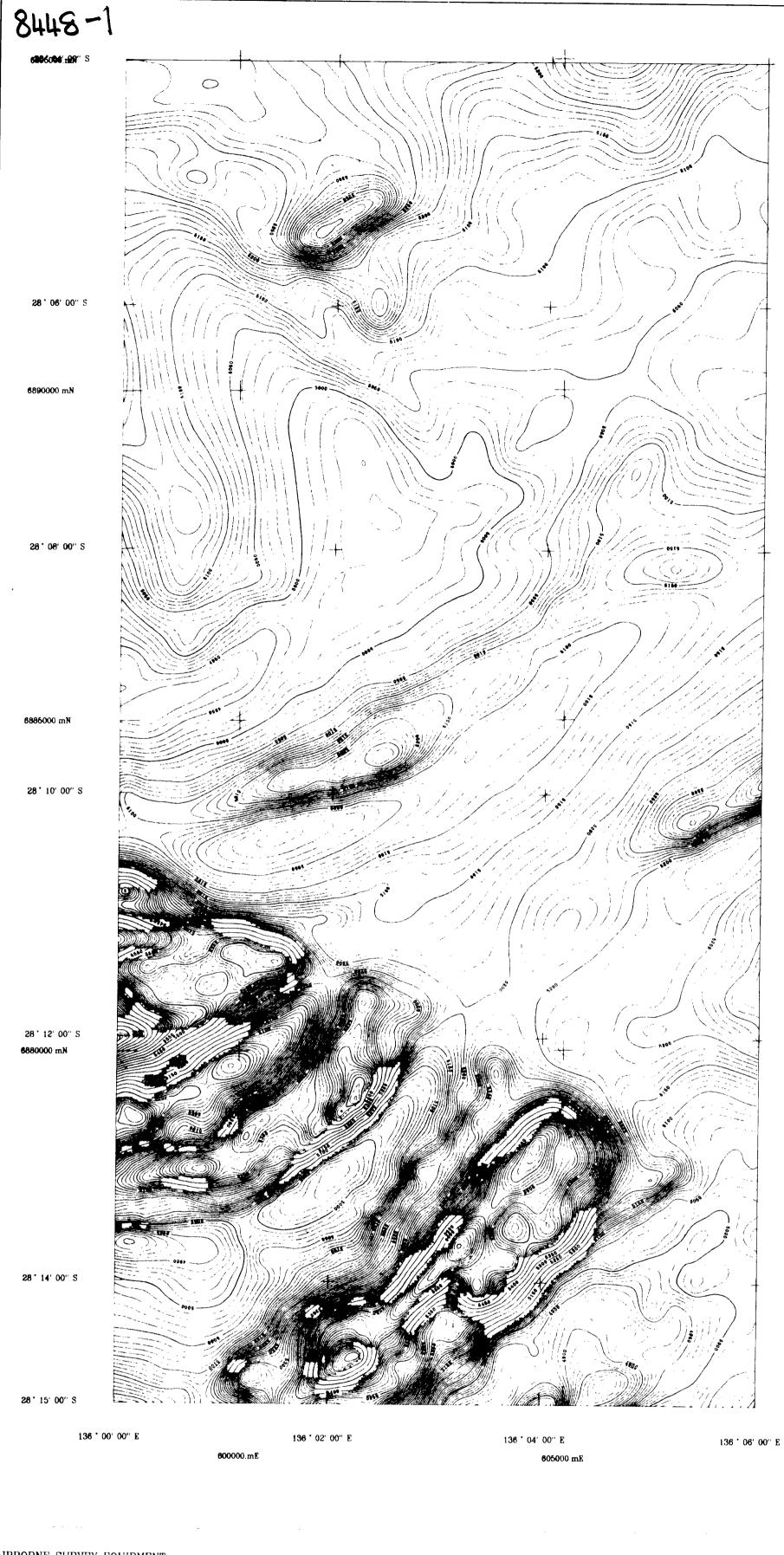
LOCATION

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KEYWORDS

Geophys Magnetics, Geophys Radiometrics





AIRBORNE SURVEY EQUIPMENT

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

Rockwell Aerocommander 500S VH KAC Scintrex VIW 2321 H8 Cesium Vapour 0.001 nT RMS AADC operating in real time 0.125 seconds (approx 8.5 metres) RMS DAS-8 RMS DAS-8
DC300 data cartridges
Geometrics GR800D
33.6lt downward, 4 2lt upward arrays
1 0 Seconds (approx 70 metres)
VHS Colour Video System
Singer-Kearfott LDNS
Ashtech GPS Ranger XII

RESIDUAL MAGNETIC CONTOURS

Diurnal variations removed IGRF(1985) updated to 1991.8 removed Average survey base station value and a constant of 5000 nT added to datum

Grid mesh size 75 x 75 metres Contour Interval 10, 50, 500, 2000 nT

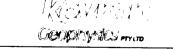
AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction Flight Line Separation Tie Line Direction Tie Line Separation
Terrain Clearance

Kevron Geophysics job number Survey flown

180 - 360 degrees 300 metres 090 - 270 degrees 4000 metres 70 metres (MTC)

1136 November 1991



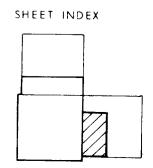
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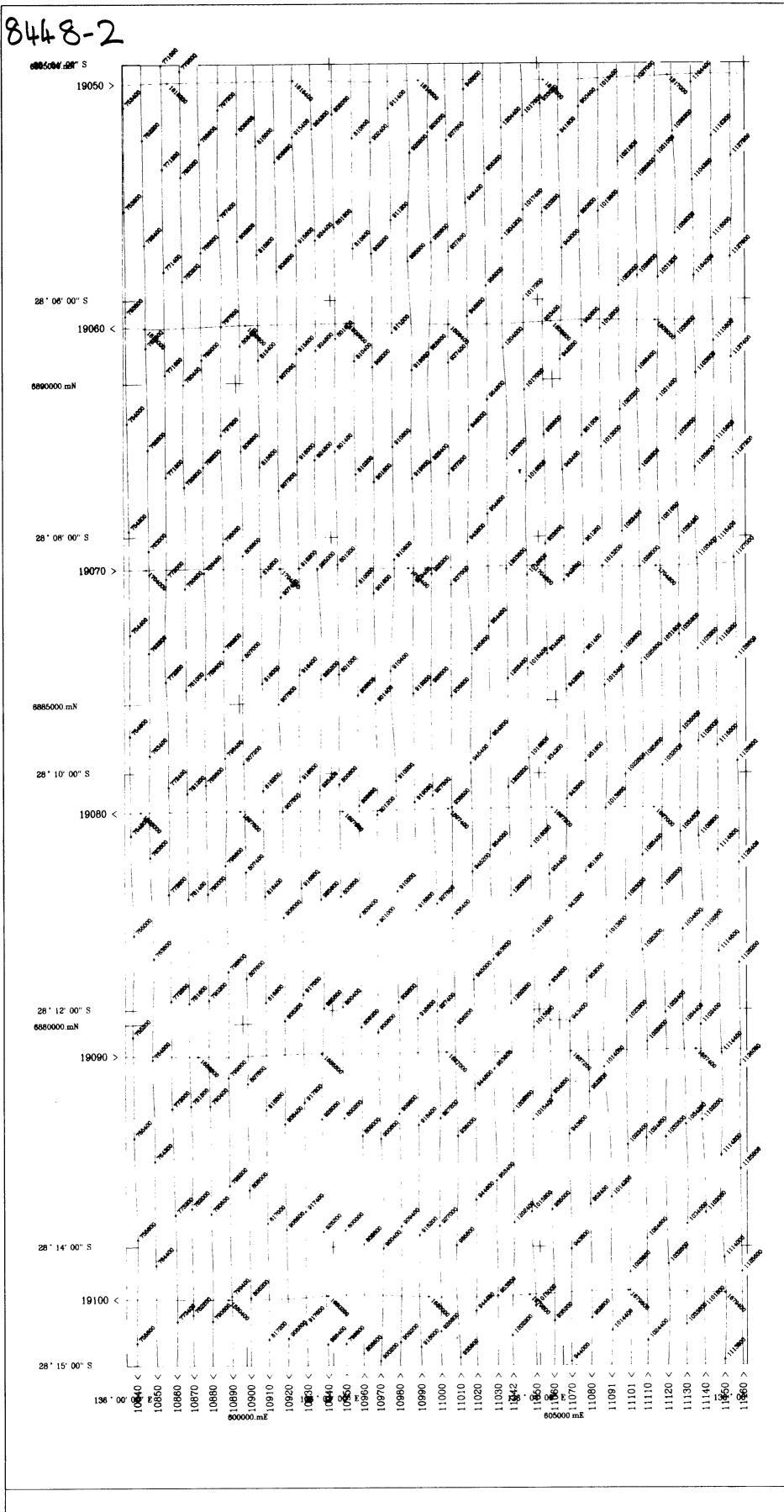
MT. DENISON EL 1720 - S.A.

MT. CHARLES AIRBORNE GEOPHYSICAL SURVEY TOTAL MAGNETIC INTENSITY CONTOURS

Ref WARRINA SH 53 - 03 Scale 50000 Author MJD Report No 17867 Nov '91 Plan No SAa 5680



8448-1



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
Doppler Navigation System
Flight Path Positioning

Rockwell Aerocommander 500S VH KAC Scintrex VIW 2321-H8 Cesium Vapour 0.001 nT RMS AADC operating in real time 0 125 seconds (approx 8.5 metres) RMS DAS-8 DC300 data cartridges
Geometrics GR800D
33.6lt downward, 4.2lt upward arrays
1.0 Seconds (approx 70 metres)
VHS Colour Video System
Singer-Kearfott LDNS
Ashtech GPS Ranger XII

FLIGHT PATH PROCESSING

Aircraft position calculated by Ashtech GPS Ranger XII Reciever and differentially corrected

Every 200 th fiducial annotated

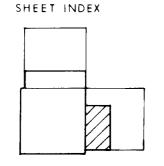
AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction Flight Line Separation Tie Line Direction Tie Line Separation Terrain Clearance

Kevron Geophysics job number Survey flown

180 - 360 degrees 300 metres 90 - 270 degrees 4000 metres 70 metres (MTC)

1136 November 1991



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CRA EXPLORATION LIMITED PTY.

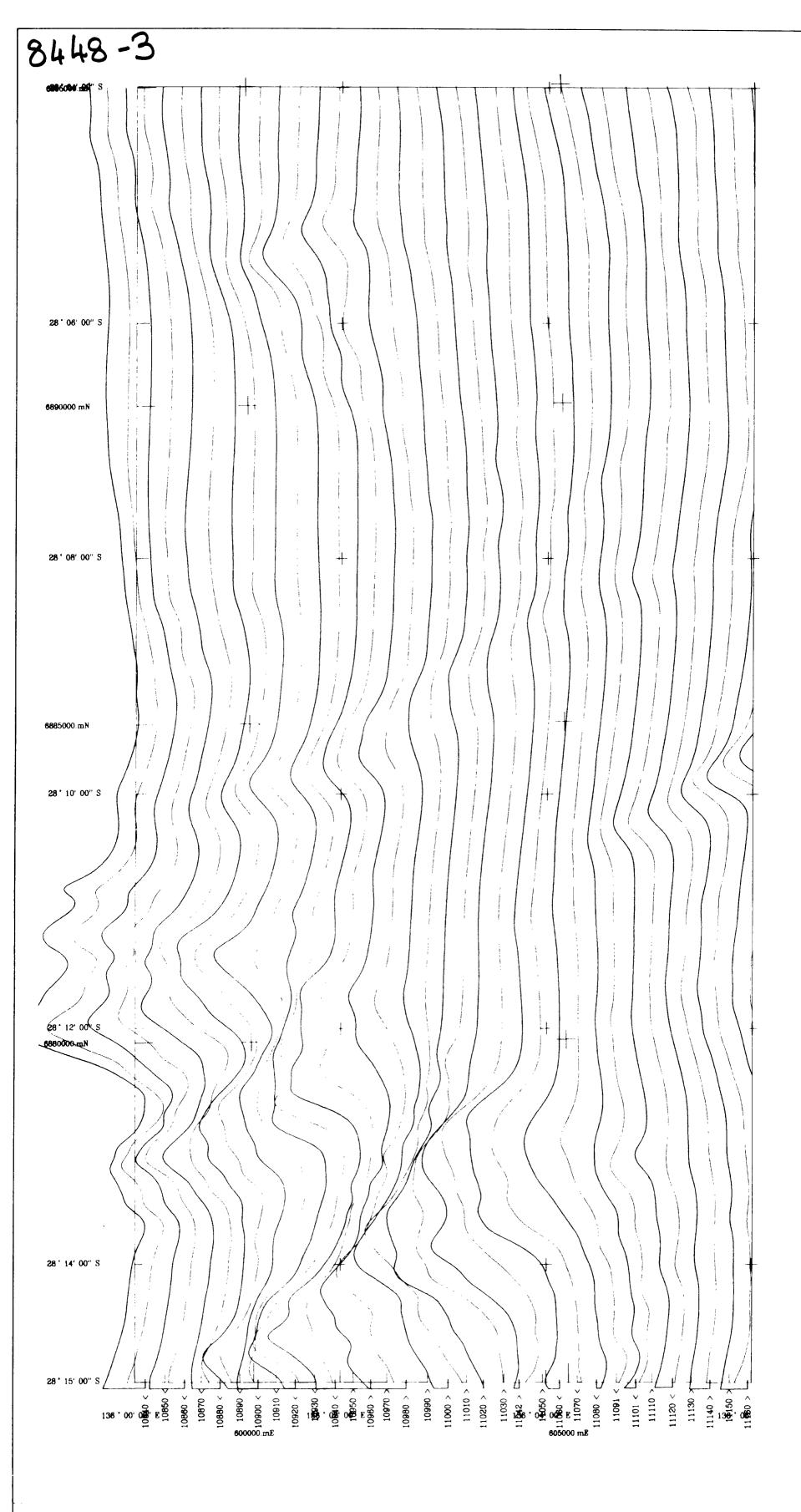
MT. DENISON EL 1720 - S.A.

MT. CHARLES

AIRBORNE GEOPHYSICAL SURVEY

FLIGHT PATH

Ref	WARRINA SH 53	3 - 03
Scale	1 50000	
Author	M.J D	Report No. 17867
Date	Nov 191	Plan No SAa 5681



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
Doppler Navigation System
Flight Path Positioning

Rockwell Aerocommander 500S VH KAC Scintrex VTW 2321-H8 Cesium Vapour 0.001 nT RMS AADC operating in real time 0.125 seconds (approx 8.5 metres) RMS DAS-8 DC300 data cartridges Geometrics GR800D 33.6lt downward, 4.2lt upward arrays 1 0 Seconds (approx 70 metres) VHS Colour Video System Singer-Kearfott LDNS Ashtech GPS Ranger XII

MAGNETIC INTENSITY STACKED PROFILES

Diurnal variations removed IGRF(1985) updated to 1991.8 removed Average survey base station value added to datum

Datum Base Value 5000 nT Vertical Scale 250 nT / cm

AIRBORNE SURVEY SPECIFICATIONS

Flight Line Direction Flight Line Separation Tie Line Direction Tie Line Separation Terrain Clearance

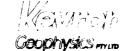
Kevron Geophysics job number Survey flown

180 - 360 degrees 300 metres 090 - 270 degrees 4000 metres 70 metres (MTC)

1136 November 1991

SHEET INDEX

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MT. DENISON EL 1720 — S.A.

MT. CHARLES

AIRBORNE GEOPHYSICAL SURVEY

T.M.I. STACKED PROFILES

 Ref
 WARRINA SH 53-03

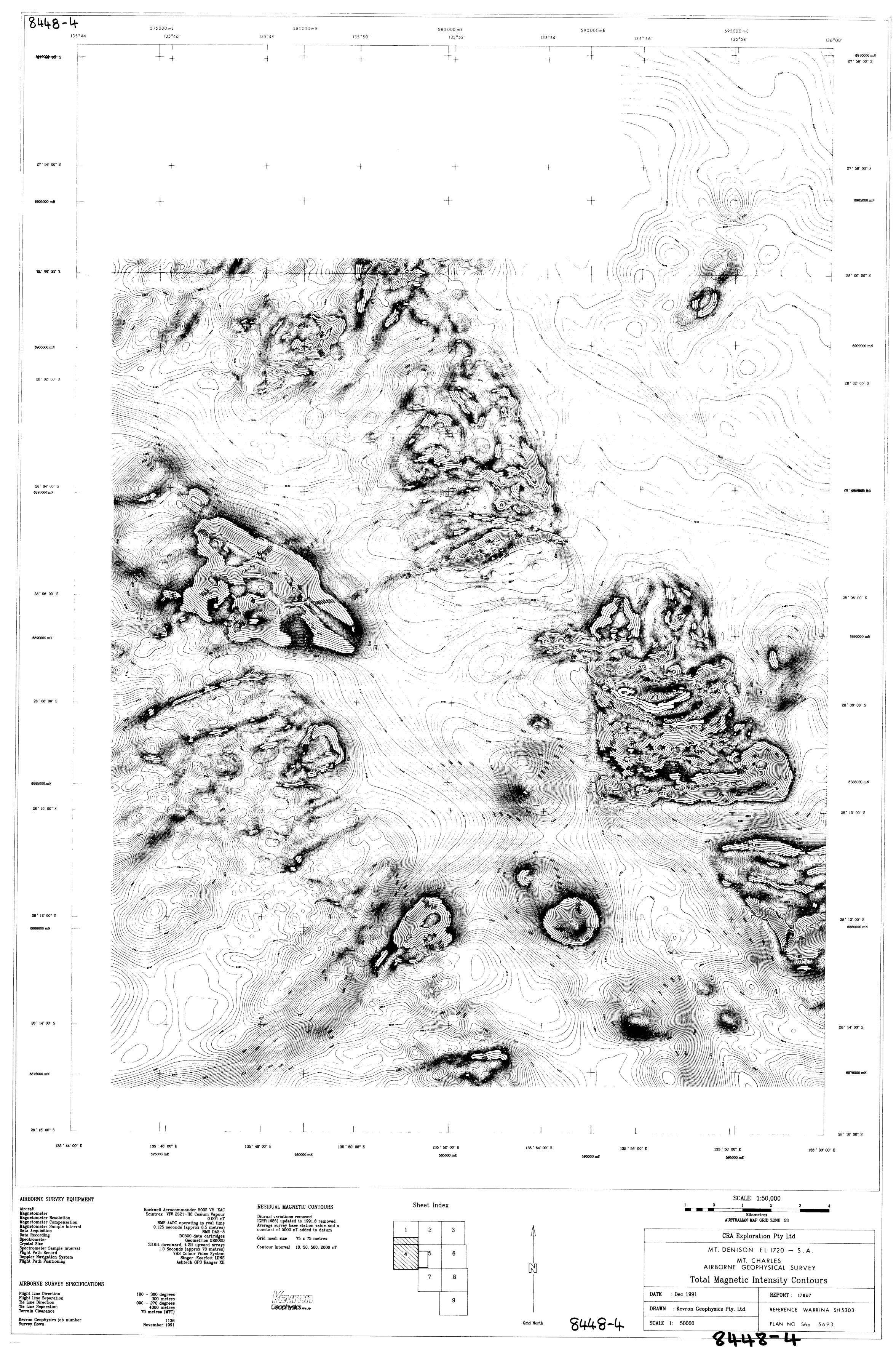
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 1:50000

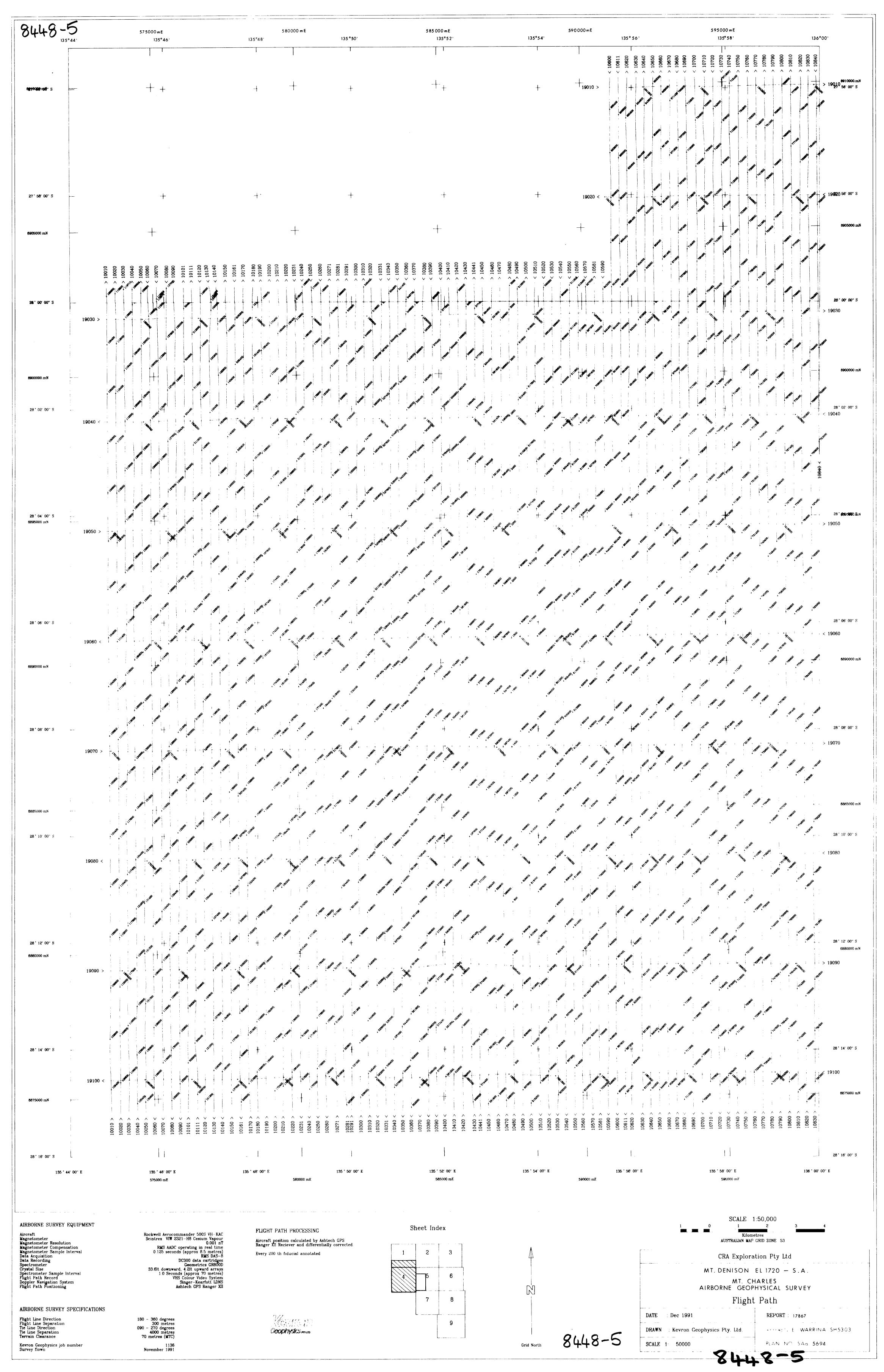
 Author
 M J D

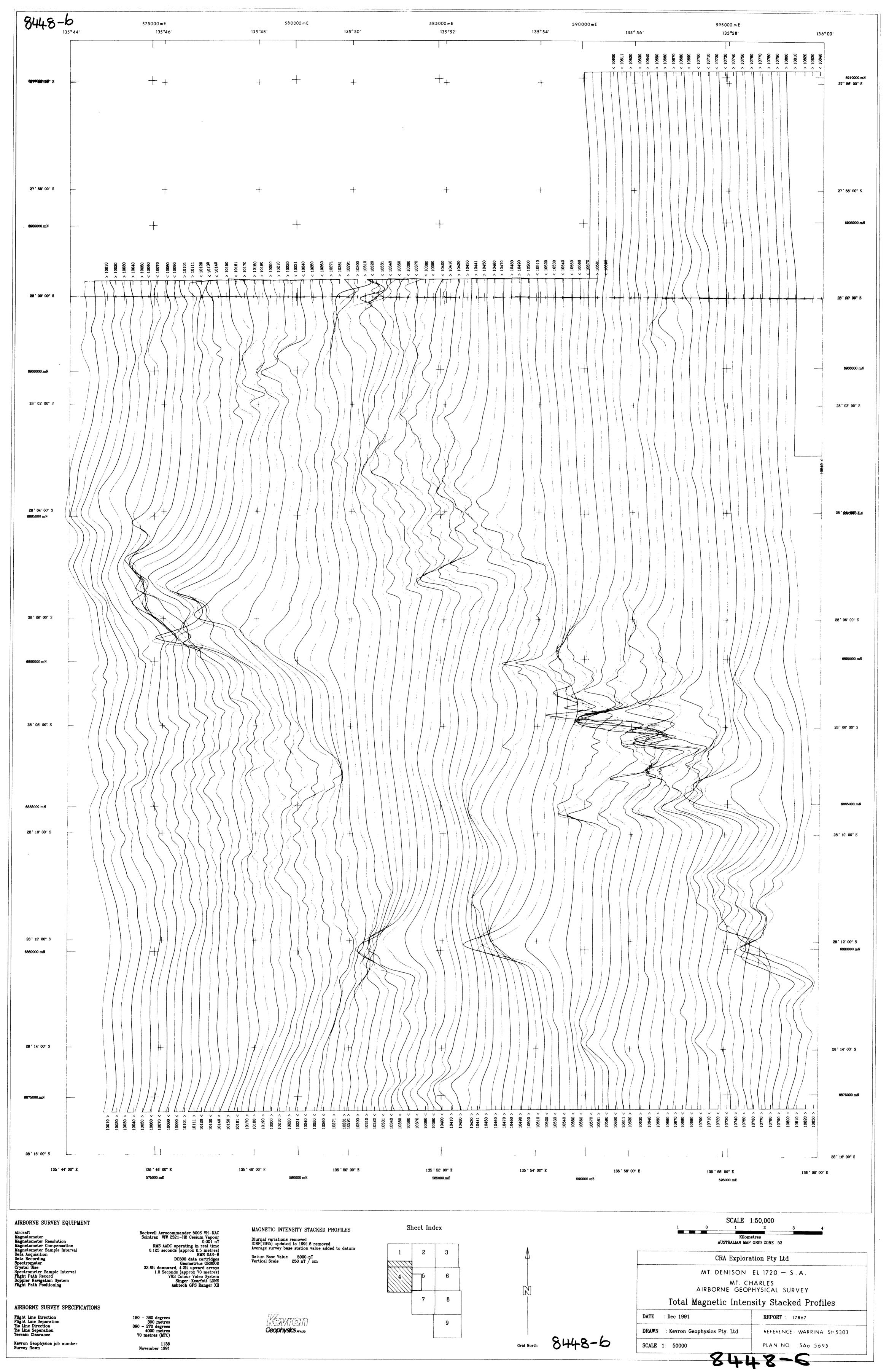
 Report No. 17867

 Date
 Nov. 91

 Plan No. SAa 5682







APPENDIX I

LOGISTICS REPORT MOUNT CHARLES AIRBORNE GEOPHYSICAL SURVEY

LOGISTICS REPORT

AIRBORNE GEOPHYSICAL SURVEY

CRA EXPLORATION PTY LIMITED

MT CHARLES

KEVRON GEOPHYSICS JOB NUMBER 1136

LOGISTICS REPORT

MOUNT CHARLES

AIRBORNE GEOPHYSICAL SURVEY

KEVRON GEOPHYSICS JOB NUMBER 1136

FOR

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KEVRON GEOPHYSICS PTY LIMITED Hangar 106, 10 Compass Road JANDAKOT AIRPORT WA 6164 A.C.N. 009 190 925

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APPENDICES

 SURVEY ARE

- 2. FLIGHT LOGS
- 3. RADIOMETRIC CALIBRATIONS
- 4. FIELD TAPE DESCRIPTION
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- 8. RADIOMETRIC BACKGROUND PLOTS

1. LOGISTICS

1.1 OPERATING BASE AND DATES OF FLYING

1.1.1 Operating Base

The crew and aircraft were based at William Creek, South Australia for the duration of the survey.

1.1.2 Dates of Flying

DATE	FLIGHT NO	REMARKS KMS	FLOWN
27.10.91	1	Test Flight	
28.10.91	2	Short Flight due to Magnetic Activity	841.0
30.10.91	3	Operations Normal	560.0
30.10.91	4	Operations Normal	563.2
31.10.91	5	Operations Normal	885.0
31.10.91	6	Operations Normal	566.4
1.11.91		No Flight Due Magnetic Activity	-
2.11.91	7	Short Flight Due " "	188.0
2.11.91	8	Operations Normal	930.4
3.11.91	-	No Flight due Rain Strip Washed Out	-
4.11.91	9	Operations Normal	974.4
4.11.91	10	Operations Normal	718.3
5.11.91		No Flight due Magnetic Acitvity	
6.11.91	11	Operations Normal	880.5
6.11.91	12	11 11	661.0
7.11.91	13	11 11	1109.0
7.11.91	14	11 11	938.2
8.11.91	15	11 11	1011.9

8.11.91	16	11 11	1075.0
9.11.91	and the second s	No Flight due Magnetic Activity	_
10.11.91	17	Reflights Only	-

TOTAL LINE KILOMETRES FLOWN 11,714.3

1.2 AIRCRAFT DETAILS AND NAMES OF FIELD CREW

1.2.1 Aircraft

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

1.2.2 Field Crew

Pilot Gabriel Kalotay
Navigator/Operator Gordon Macdonald
Data Technician Cameron Johnston

2. SURVEY DETAILS

2.1 DESCRIPTION OF AREA FLOWN

The Mount Charles survey lies within the Warrina SH 53-3 and the Oodnadatta SG 53-15 1:250 000 topographic map sheets. The exact survey boundary is shown in Appendix 1. The survey distance was approximately 11,710.0 Km

2.2 SURVEY SPECIFICATIONS

Flight line direction : 180 - 360 Degrees AMG

Flight line spacing : 300 metres

Tie line direction : 090 - 270 Degrees AMG

Tie line spacing : 4,000 Metres

Sensor mean Terrain Clearance : 80 Metres

Time Base

Magnetics: 0.125 SecondsRadiometrics: 1.0 Seconds

PAGE 3

Sample Interval (in still air)

Magnetics : 9 metres or less Radiometrics : 70 metres or less

2.3 NAVIGATION

The primary navigation method was by GPS Satellite Receiver (Ashtec). This equipment fixes the aircraft position every second and records the information on the acquisition tape. At the same time the on board computer produces a steering signal for the pilots guidance and this is also updated once per second. If necessary, for instance when selective availability is turned on and the line spacing is very close, the recorded flight path can be post processed after the flight during which process differential corrections are applied from data recorded in a second receiver located in a known position in or near the survey area. Recent experience has shown that position errors in the GPS data with selective availability on, have proved to average around 20 metres or less.

This navigation was assisted and supplemented by a Doppler navigation system which provides steering information to the pilot and navigator when crossing featureless areas. The aircraft can be kept on line quite accurately until there are visual features which can be positively identified to update the aircraft's position, or until short term "holes" in the GPS data disappear.

The position of the aircraft UTM coordinates was produced by the doppler navigation equipment and is recorded on tape to a sensitivity of 10 m every second. During processing, this data may be used to accurately interpolate the aircraft's position between visually recovered points or GPS fixes.

2.4 FLIGHT PATH RECOVERY

The flight path was plotted from the recorded GPS/Doppler data. If the GPS data becomes unusable for short distances, the Doppler data will be used to infill the gaps.

2.5 MAGNETOMETER

The magnetometer used was an optically Cesium Vapour pumped, 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 altitude 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 within a resolution and sensitivity of 0.01 nT at a sampling rate of eight (8) times per second. This data was recorded digitally. This data was also recorded in analogue form.

Magnetometer summary:

Time base	0.125 seconds
Sample interval	8.5 m approx.
Resolution	0.01 nT
Sensitivity	0.01 nT

Analogue chart full scale deflection:

Mag	fine		200	nT
Mag	coarse	2	000	nT
Mag	coarse	10	000	\mathbf{nT}

2.6 SPECTROMETER

A Geometrics GR-800D 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 pack.

The GR-800D produced both digital and analogue data and was recorded every 1.0 seconds.

2.6.1 Digital Recording

Digital data from the GR-800D 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

The digital data is neither dead time corrected nor normalised.

2.6.2. Analogue Recording

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

The channels recorded were:

Total count K 40 BI-214 TL-208

2.7 ALTIMETER

2.7.1 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, and this voltage was recorded digitally.

2.7.2 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 0.066 mV/ft.

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

2.8 BASE STATION MAGNETOMETER

A recording base station magnetometer, incorporating an Epson PX-8 Computer, P-40 Printer and Geometrics G-856 Magnetometer with analogue and digital recording was used as the primary base station magnetometer and run continuously throughout the survey flying period with a sampling interval of 5 seconds and a sensitivity of 0.1 nT.

The base station was established at William Creek in an area of low gradient and away from man made influences.

2.9 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.

2.10 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, fiducial number and easting and northing produced from the Singer Doppler.

3. CALIBRATIONS

3.1 MAGNETICS

3.1.1 Magnetic Noise Envelope

The noise envelope was less than 0.1 nT standard deviation for the entire aircraft flight envelope. (Refer Appendix 7)

3.1.2 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 7)

3.1.3 Parallax

Parallax was resolved by flying over a suitable anomaly in opposite directions within each area. The parallax for the system was resolved to 8.0 fiducials or 70 m approximately.

3.2 RADIOMETRICS

3.2.1 Background Correction Plots and Equations

The following is the processing scheme for computing aircraft background and cosmic radiation: (Appendix 8)

- 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.

3.2.2 <u>Contents Derived From Background Tests</u>

	Background cps	Cosmic	Height per metre		
Total count	199	1.918	0.00574		
K	18	0.108	0.00713		
U	9	0.092	0.00730		
Th	5	0.112	0.00581		

3.2.3 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: 3).

3.2.4 Hand Sample Spectrograms

The following sources were used:

Thorium sample Uranium sample Cesium 137 sample

3.2.5 Test Line

The Test Line chosen was along an old fence line running in a North-South direction between the following co-ordinates:

S	28	Degrees	46'	96"	E 136	Degrees	19'	06"
S	28	Degrees	521	74"		Degrees		

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 is considered a satisfactory indication that the system was performing well.

3.2.6 Analog Stripping Coefficients

These co-efficients were obtained using point source Thorium and Uranium samples placed to give a uniform irradiation of the crystal pack, while the GR-800 subtraction switches were adjusted to give minimum observable contribution into the other channels.

The following stripping co-efficients were used:

alpha	0.24	(T1-208 from Bi-214)
beta	0.14	(T1-208 from K-40)
gamma	0.78	(Bi-214 from K-40)

3.2.7 Data Reduction

The data reduction of the 256 channel spectrometry data is undertaken to 4 channels (raw data) in the GR-800D Spectrometer.

4. DATA PROCESSING

Three types of data were required for data processing:

- Reformatted raw field data tapes
- 2. Flight path recovery information
- 3. Digital diurnal data.

4.1 <u>Data Reduction and Checking</u>

The first step in processing the raw field data was to read it into the Computer system and check for steps, spikes, noise and missing or duplicate data. If errors were detected, the data containing these errors were automatically displayed for evaluation and correction. The barometric and radar altimeter data were calibrated to convert them from millivolts to metres. The radiometric data were also dead time corrected and normalised to counts per second during this phase.

The raw GPS data was post-flight differentially corrected to give corrected GPS positional data to an accuracy of 5 m or less RMS. The GPS base station was situated over the water tower at the rear of William Creek hotel with known co-ordinates of:

```
S 28 degrees 54' 22.48902
E 136 degrees 20' 21.06260
Height 110 m.
```

The differentially corrected data was then converted to UTM coordinates using the Australian National Spheroid.

The data are in grid UTM Zone 53 with a central meridian of 123 degrees East, with an x-bias of 500 kilometres and a y-bias of 10,000 kilometres. The reference spheroid used was the Australian National spheroid.

4.2 <u>Magnetic and Radiometric Processing</u>

The digitally recorded diurnal data from the base station were edited to keep only samples taken during actual flight time and to remove spikes and check data quality. The diurnal data was low-pass filtered using a spatial domain filter with a cut-off at 20 terms. This cut off all data with periods of less than thirty (30) seconds. The filtered data were then subtracted from the aircraft data, one sample at a time. After subtraction, the mean diurnal value was added back to the airborne data for each line, producing diurnally corrected data. The data were then tie line levelled.

The location data was then merged with the corrected airborne data to produce located airborne data.

The geomagnetic field was measured by fitting a second order polynomal surface to thirteen value computed from the IGRF model. The coefficients at this surface were used to compute the IGRF value for each sample. The IGRF model for the survey had the approximate following values:

Magnetic Delineation 6.09 Degrees
Magnetic Indication -60.87 Degrees
Total Field Strength 56120 nT.

This value was then subtracted from the located airborne data. The IGRF 1985 model was used, updated to 1991.8.

The corrected magnetometer data, with the IGRF removed was then interpolated to form the final residual magnetic intensity map. The grid size used for the interpolation was 75 m \times 75 m.

The radiometric data was corrected for cosmic and aircraft background, altitude attenuation and corrected for Compton Scatter. The stripping coefficients used were:

alpha : 0.283 betta : 0.435 gamma : 0.718 eta : 0.050

These data were also corrected for airborne radon using upward detector data to produce levelled radiometric data for the four channels.

4.3 Deliverable Items

Flight path maps, magnetic intensity contour, and magnetic stacked profile maps were presented on stable base mylar at 1:50 000.

The magnetic intensity contours were presented with a contour interval of 10 nT and the stacked profiles were presented with a vertical scale of 250 nT/cm.

The magnetic intensity contours were presented with a contour interval of 10 nT and the stacked profiles were presented with a vertical scale of 250 nT/cm.

Located data tape consisted of both raw and corrected magnetic and radiometric data. It was recorded in ASCII at 6250 bpi on nine track tape with a fixed record and block length and conformed to the ASEG-GDF Format. A gridded tape of the corrected magnetic data in a standard format was produced.

List of deliverable items:

Analogue Data
Flight Logs
Located Data Tapes
Survey Data Summary
Gridded Data Tape (Magnetic)
Flight path Maps 1:50 000
Magnetic Contour Map 1:50 000
Magnetic Stacked Profiles 1:50 000
Compacted Field Data Tape

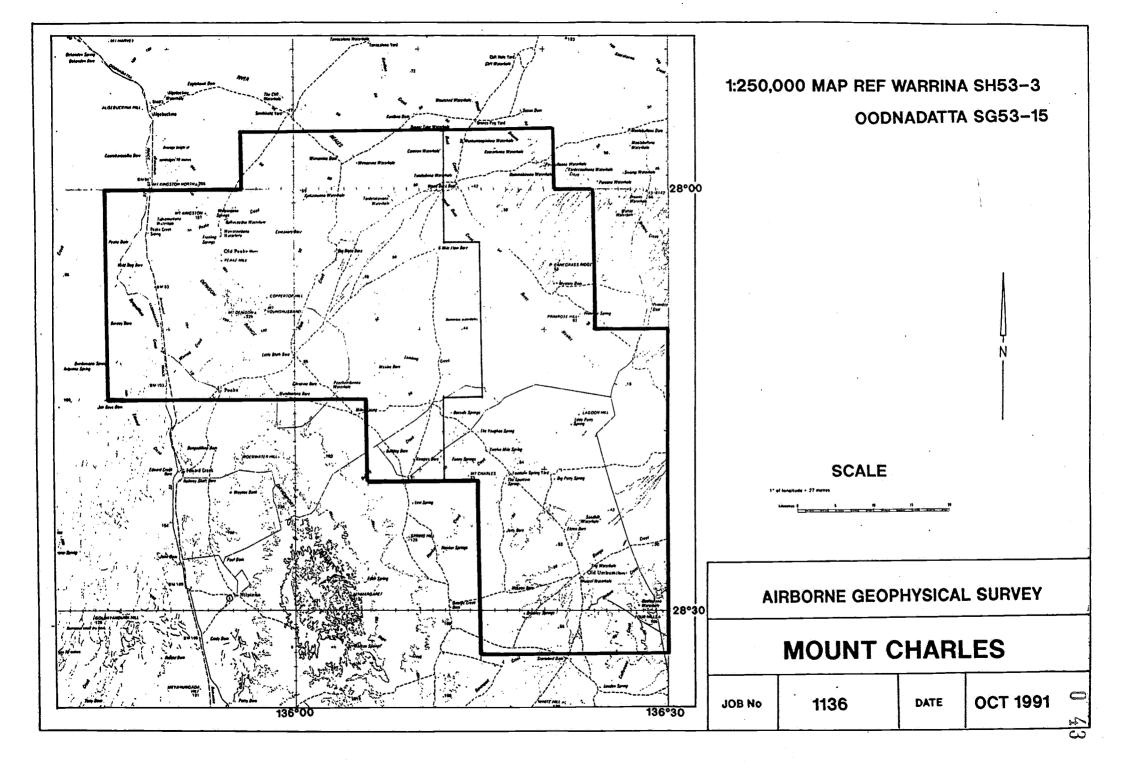
APPENDIX 1

SURVEY AREA

The survey area boundaries are shown on the following map. The coordinates of the corners, beginning at the northwest corner and proceeding clockwise, are as follows.

Coordinates are AMG Zone 53

	AMG mE		AMG	mN
1.	573 666.1	6	902	430.5
2.	591 500.9	6	902	430.5
3.	591 500.9	6	909	893.0
4.	632 683.8	6	909	893.0
5.	632 683.8	6	901	910.0
6.	637 618.3	6	901	910.5
7.	637 618.3	6	883	662.5
8.	647 219.5	6	883	622.5
9.	647 219.5	6	841	018.0
10.	622 117.0	6	841	018.0
11.	622 117.0	6	863	931.0
12.	607 289.5	6	863	931.0
13.	607 289.5	6	874	860.5
14.	573 666.1	6	874	860.0



APPENDIX 2

FLIGHT LOGS

L.	KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No											
		009 190 925	3103	Date27/10/ 1991.				J	JOB No. 1136			
A	ea MT CH	HARLES		MAGNETOMETER					SPECTROMETER			
	Aircraft VH-KAC				Sample Rate				Sample Rate 1.0			
Pi	lot KA perator MA(ALOTAY CDONALD	grander grander	Mag. F.S.	D. Fine D. Coarse	100 _{nT} 100	0nT	Cry	stal Size	3	3.8 16.8K/33.8 L	
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		NOTE A	AIRCRAFT	COMPENSAT	ED USING	SLOT :	#4					
					S'	YSTEM	TEST					
N	0060.0	10313	10512		16.33	•••••					Heading Check	
S	0061.0	10513	10680		16.35							
Ε	0062.1	01792	10960	•••••		••••••				1		
W	0063.0	10961	11104	•••••	16.39	••••••		• • • • • • • •				
N	0064.0	11105	11256	:				- • • • • • • • • • • • • • • • • • • •	• • • • • •			
N	0001.0	11257	12192					•.••••	· · · · · · · · .		Test Line	
 S	0002.0	12193	! 5. ! 3.5.	16.49					•;•••		Test Line	
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	1/1	CHARLES H-KAC		Samala D	MAGNETOMETER Sample Rate 0.125						ROMETER	
	ilot Ki	ALOTAY	e e e e e e e e e e e e e e e e e e e	Mag. F.S.	D. Fine 10	_{nT} 0						
	perator	CDONALD		Mag. F.S.	D. Coarse		nT					
D	atamanirport	WILLIAM	CREEK	4-1	ALTIME						(FSD) IN FLIGHT	
1	ake off				ttitude				4 8			
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	0012.0		• • • • • • • • • • • • • • • • • • • •					• • • • • • •			Thorium	
	0013.0	,,	***********			•••••	•••••	• • • • • • •		• • • • • •	Background	
N	0001.0	0	896	10.14	10.17	• • • • • • •				• • • • • •	Test Line	
	0030.0	897	1728	10.34	!ו	•••••			1		High Level	
N	1010.1	1729	4968	10.34	10.41	•••••	• • • • • • • • • • • • • • • • • • • •	28.0			Refly Diurnal	
S	1016.1	4969	9016	10.42	10.51	,.,	.,	28.0			u u	
N.Y	1011.1	9017	12288	10.52	10.59			28.0			n u	
s	1023.1	12289	16296	11.06	11.09	•••••	•••••	28.0			11 11	
 N	1023.1	16297	19632	11.10	11.17			28.0			и и	
S	1032.0	19633	23488	11.18	11.26	•••••	• • • • • • • •				Doodustion	
N.:	1028.1	23489	26808		• • • • • • • • • • • • • • • • • • • •		* * * * * * * * *	28.0			Production	
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	1033.1	26809 30729	30728	11.35	11.43	•••••		28.0			Refly Diurnal	
N.	*.* * * * * * * * * * * * * * * *		34016	11.44	11.51	*,***,* * ***	• • • • • • • • • • • • • • • • • • • •	28.0			Refly D.Dop	
S.	1034.0	34017	37856	11.52	12.00	•••••	. • :• • • • . • • •	28.0			Production	
N	1030.0	37857	41184	12.01	12.08	•••••		28.0	0.2/0	B	Production	
S	1035.0	41185	45112	12.09	12.17			28.0				
N	1031.0	45113.	48544	12.18	12.25	.,.,.,		28.0				
S	1036.0	48545	52376	12.26	12.34	• • • • • • • •		28.0				
N	1041.0	52377	52993	12.35	12.41			28.0				
Ş	1037.0	52994	59648	12.42	12.51		• • • • • • • •	28.0				
N	1042.0	59649	62928	12.52	12.58	•••••	•••••	28.0.				
S	0138.0	.62929	66696	12,59	13.07			28.0				
Ņ	1043.0	66697	69976	13.08	13.15	*** * * * * * * *	,	28.0			.,,	
Ş	1039.0	.69977	,	13.16	13.25		: 	28.0				
N	1044.1	74185	77584	13.27	13.35	******		28.0				
Ş	1040.0	77585	81480	13.36	13.44			28.0				
N.	1045.0	.81481	84800	13.45	13.51	•••••		28.0				
Ş	1015.0	.84801	88624	13.52	14.00			28.0				
Й	1046.0	.88625	92032	14.01	14.07		•••••	28.0		ļ		
.s.	1052.0	92033	95880	14.11	14.20			28.0				
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	KEVRON (JEOPH 1 v 009 190 925	3163	Date	30/10)/ 19	91	J	OB No.		1136
	Area MT (CHARLES			MAGNETO	METER					ROMETER
	Area MT (Aircraft VF Pilot k		* 's ******		late			Sam	nple Rate		1.0
	Pilot K Operator N	ALUTAT MACDONALD	,		D. Fine		100 aT	Cry	stal Size	3.	3.8 16.8L/33.8 L
	Dataman			1Wag. 1 .0.	ALTIME		<u> </u>	-	GND.	CALLS	(FSD) IN FLIGHT
	Airport WI	LLIAM CR	EEK	Survey A	ltitude {		metres	H K40 .	 L	200	0 200 0 200
4	Take off			Radar	200		FT/CM	TL20	в	200	0 200
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>,</u>	UCIAL		200			Total	·		0 2000
Hdg	LINE	Start	End	Start	ME End	LINE L Start	End	Kms	VIDEO No.	TAPE No.	COMMENTS
S	1053.0	99209	103168						03	03	
	0031.0	103169	••••••								High Level
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 	•		······································	REFLYS	= 2	424.0 K	m	•••••		[
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 	KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT Date31 / 10/1991 FLIGHT No JOB No 05													
	rea MT	CHARLES			MAGNETO	METER			S	PECT	ROMETER			
4	ircraft VF			Sample R	late0	.125		San	nole Rate	······································	1.0			
4	ilot k			1		100 _{nT}	000 nT				8 1638L/33.8 L			
1	perator Nataman),	Mag. F.S.	D. Coarse ALTIME		/ <u>00</u> n1	-			(FSD) IN FLIGHT			
A	irport	VILLIAM (Survey A	ltitude		metres		 					
اق:	ake off				200				8	20				
	1		JCIAL		200 ME			Total	Count.	r	0 2000			
Hdg	LINE	Start	End	Start	ME End	LINE L Start	End	Kms	VIDEO No.	TAPE No.	COMMENTS			
	0010.0	0							04	05	Cs 137			
	0011.0						•••••	,			Uranium			
ĺ	0012.0				-,- •,• - • •,•,	•••••	•••••	•••••	• • • • •		Thorium			
	0013.0						•••••	******	• • • • • •		Background			
S	0001.0	0	1160	09.49	09.52		*****		••••		Test Line			
	0030.0	1161	2232	09.58		******	•••••		•••••		High Level			
N	1058.1	3169	6584	10.00	10.22	FULL	LINE	28.0	••••	• • • • • •	Refly - Diurnal			
S	1068.0	6585	11368	10.24	10.34	11	11	35.4	•••••	* • • • •	Production			
N	1074.0	11369	15560	10.35	10.44	tt	£1	35.4						
S	1069.0	15561	20312	10.45	10.54			35.4	•••••					
N	1075.0	20313	24472	10.55	11.04			35.4						
S	1070.0	24473	29160	11.05	11.14		•••••	35.4			.,			
N.	1076.0	29161	33320	11.15	11.24		•••••	35.4						
S	1071.0	33321	38072	11.25	11.35			35.4						
 N	1077.0	38073	42320	11.35	11.44			35.4			,			
S	1072.0	42321	47120	11.45	11.55									
N N	1078.0	47121	51320	11.56	12.05	,		35.4	•••••					
. ! ' S	1084.0	51321	55984	12.06	12.15			35.4	•••••					
N N	1079.0	55985	60065	12.13				35.4						
S.	1088.0	60065	64784		12.24			35.4		<u>-</u>				
N N	1080.0	64785		12.25	12.35			35.4						
1	1086.0		69016	12.36	12.44			35.4						
S	1080.0	69017	73648	12.45	12.55			35.4		,				
N.	••••••	73649	77808	12.56	13.04	******		35.4						
S.	1087.0	77809	82480	13.05	13.15			35.4	05/0	Ö	,			
N.	1082.0	82481	86648	13.16	13.24			35.4		ļ				
.S	1088.0	86649	91016	13.25	13.34			35.4	•••••		,			
Ņ.	1083.0	91017	95216	13.35	13.43			35.4	•••••		***************************************			
.S	1089.0	95217	99664	13.44	13.54			35.4						
Ņ.	1095.0	99665	103944	13.55	14.03	.,		35.4						
.S.		103945	108472	14.04	14.14			35.4						
.N.	• • • • • • • • • • • • • • •	108473	112936	14.15	14.23			35.4			,.,			
ļ.S.	1091.0	112937	117360	14.24	14.34			35.4	,		.,.,.,			
 	• • • • • • • • • • • • • • • • • • • •			• · · · · • · · · • · · • · ·	CTION = 8		· · · · · · · · · · · · · · · · · · ·							
<u></u>				REFLY	\$ =	36.0 K	m							

	K	EVRON C	EODHA	'SICS		ORS FL			RT F	LIGHT	Vo	06 1136
L	-		009 190 925	J.00	Date	31 /	10/ 19	91	J	OB No.		1136
3	A	rea MT	CHARLES)		MAGNETO	METER				SPECT	ROMETER
	Α	ircraft V	H-KAC			ate (1.0
		lot K perator M	ALOTAY IACDONAL D	- 1100 men		D. Fine) nT	Cry			-8 16/8L/33.8 L
1	D	ataman				ALTIME			KAD	GND.		(FSD) IN FLIGHT
9		irport			Survey A	ltitude	80	metres	Bi214	J	200	200
9		ying time			Radar	200 200		FT/CM		Count		
-			FIDL	JCIAL		ME	LINEL			VIDEO	TAPE	
	ldg	LINE	Start	End	Start	End	Start	End	Kms	No.	No.	COMMENTS
ļ	1	1097.0	0	4480	16.30	16.40			35.4	.06	06	
5	5	1092.0	4481	8992	16.41	16.50			35.4			
Ņ	1	1098.0	8993	13392	16.51	17.00		.,	35.4			
3	S	1093.0	13383	17816	17.01	17.10			35.4			
	N	1099.0	17817	22272	17.11	17.20			35.4			
and the same	S	1049.0	22273	26592	17.21	17.30		,	35.4		 ,	
1	N	1100.0	26593	31032	17.31	17.40			35.4			
property	s	1106.0	31033	35408	17.41	17.51			35.4			
1100000000	N	1101.0	35409	39856	17.52	18.00			35.4			
	S	1107.0	39857	44144	18.01	18.10			35.4	6/7		
and the second	N	1102.0	44145	48520	18.14	18.23		. •	35.4			
]	S	1108.0	48521	52832	18.24	18.33			35.4	••••		
and the second	N	1103.0	52833	57288	18.36	18.45			35.4	,		
		• •,• • • • • • • • • • • • •	:							,,,,,,		~
with the same		0031.0	70385	71192						•••••		High Level
		0002.0	71193		19.34							Test Line
		0014.0	0		, ,							Background
•		0015.0						••••		*****		Thorium
1	• • •	0016.0								,		Uranium
ľ		0017.0		,••••••					•••••••			Cs 137
َ الْرَ	•	• • • • • • • • • • • • • • • • • • • •							••••••			# = # = # = # = # = # = # = # = # = #
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١.		• • • • • • • • • • • • • • • • • • • •	*** * !* * ,* * * * * *		•••••							
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KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No. 07												
, r		009 190 925	3103	Date	2/	11/ 19	91				1136	
۵	rea	T CHARLE	S	I	MAGNETO				S	PECT	ROMETER	
1	vircraft VI	I-KAC		Sample R	ate	0.125		Sam	nple Rate	•	1.0	
1	Pilot	KALOTAY MACDONA		Mag. F.S.	D. Fine 100 D. Coarse	nT 1000	0nT	Cry			338 13535L/33.8 L	
1	Operator				ALTIME		S 111		GND.	CALLS 200	(FSD) IN FLIGHT	
	Airport	WILLI	AM CREEK	Survey A	Ititude	 	metree	K40 Bi214	,	200	200	
e S		Land			288			TI 20	R	200		
} [lying time	 	· · · · · · · · · · · · · · · · · · ·	1 00.0.				Total	Count	70	2000	
Hdg	LINE	FIDU Start	JCIAL End	Ti Start	ME End	LINE L Start	IMITS End	Kms	VIDEO No.	TAPE No.	COMMENTS	
		- and halfs are a - 			, ,			, i, <u>, i, , , , , , , , , , , , , , , ,</u>				
••••	0010.0.	0	••••••			•••••		•••••	07	07.	. Cs . 137	
• • • •	0011.0								,		.Uranium	
• • • •	0012.0					*******					Thorium	
	0013.0								,		Background	
N	0001.0	0	1360	12.11	12.14						Test Line	
	0030.0	1361	2200								High Level	
N	1058.1	2201	3680	12.35	12.39	S.End	9 m				Nav Infill	
S	1066.2	3681	4768	12.40	12.42	u	11				n u	
S	1109.1	10705	14624	12.59	13.07	Full	Line	35.4 Kr	n		Diunnal Reflt	
N	1105.0	14625	20008	13.08	13.20	11	"	35.4 Kr	n		Processed as 1105	.1
S	1110.1	20009	23684	13.21	13.29	11	'n	.11		,	Diurnal Reflt	
N	1111.0	23685	29129	13.30	13.46	11	и	н			Production	
S	1112.0	29130	33136	13.47	13.55	ū	п	11	:			
N	1113.0	33137	38440	13.50	14.08	"	11	35.4				
S	1119.1	38497	43560	14.11	14.22	,		46.4	08			
••••								• • :• • • :• • •			.,,	
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•,•••			•••••					• • . • . • • • •				
			********	PRODUC	TION = 18	88.0 Kr	n	• .• • • .• • .•	•••••]		
			.,	REFLYS				• • • • • • •		•••••		
				13 to 1 5	[• • • • • • • •			,,	l
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KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT Date 4 / 11 / 19 91 MAGNETOMETER OPERATORS FLIGHT REPORT Date 4 / 11 / 19 91 MAGNETOMETER SPECTROMETER												
A	rea MT	CHARLES							S	SPECT	ROMETER	
A P	_{ircraft} VH-	KAC LOTAY DONALD		Mag. F.S	Rate 0.1 D. Fine 1 D. Coarse	00 _{nT}	0 _n t				1.0 33.8 xx x8L/33.8 L	
1	ataman		EW.		ALTIME			- K40	GND.	CALLS 20	(FSD) IN FLIGHT	
	irport WIL ake off	LIAM CRE	EK	Survey A	ltitude 20	80	metres		1			
3	lying time	•	hours		20 20)0	FT/CM	TL20	8 Count	20	0 200	
Hdg	LINE	FIDI	JCIAL	'	ME	LINEL			Count	TAPE		
\vdash	LINE	Start	End	Start	End	Start	End	Kms	No.	No.	COMMENTS	
N.	1156.0	0	5720	15.55	16.07			46.4	10	. 11		
S.	1150.0	5721	11488	16.08	16.20		,	46.4	.11			
N.	1157.0	11489	17256		16.33			46.4				
S.	1151.0	17257	22960	16.34	16.46			46.4			,	
N.	1158.0	22961	28736	16.47	16.59	30 • . • ² 0 • • • • • ²		46.4				
S.	1152.0	28737	34512	17.00	17.12	,		46.4			•	
N	1159.0	34513	40400	17.13	17.25			46.4				
S	1153.0	40401	46160	17.26	17.38			46.4				
N.	1160.0	46161	51976	17.39	17.52		•••••	46.4				
S	1167.0	51977	60584	17.53	18.11		,	69.3				
N	1161.0	60585	69152	18.12	18.29			46.4				
S	1168.0	69153	77776	18.30	18.48		*****	69.3				
N.	1162.0	77777	86328	18.49	19.07		*******	46.4	. 11			
S	1169.0	86329	94968	19.08	19.25	********		69.3	12			
ş	0031.0	94969	95736							 	High Level	
Ş.	0002.0	95737		19.38							Test Line	
	0014.0	0									Background	
	0015.0										Thorium	
	0016.0										Uranium	
	0017.0										Cs 137	
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	• • • • • • • • • • • • • • • • • • • •			PRODU	CTION =	718.3	Km					
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•	(EVRON (GEOPHY N 009 190 925	'sics (FORS FLI			1	LIGHT I		11 0 55
A	rea M	T CHARLE	S.,		MAGNETO				S	PEC	TROMETER
	Pilot	/H-KAC KALOTAY	The second secon	Mag. F.S	late	100 пт		Sar Cry	mple Rate		1.0 33.8 _{16.8L/33.8 L}
	Operator (Nataman	1A CDONAL D		Mag. F.S	.D. Coarse		000 nT		GND.	CALLS	(FSD) IN FLIGHT
A	varaman virport	WILLIA	M CREEK		ALTIME			K40	 4.,	200	0 200 200
		Land			200		FT/CM	TL20	4		200
-	lying time.	,		Baro.	200		FT/CM	Tota	Count.	200	2000
Hdg	LINE	FIDI Start	JCIAL End	Ti Start	ME End	LINE L Start	IMITS End	Kms	VIDEO No.	TAPE No.	COMMENTS
	0010.1										Cs. 137
	0011.0					•••••					Uranium
	0012.0						ļ				Thorium
	0013.0				 					 	Background
Ņ	0001.0	0	880	09.22	09.24						Test Line
	0030.0	881	1648		09.30						High Level
N	1163.1	3425	11136		10.05			69.3			
S.	1170.0	11137	20160	10.60	10.24	••••••		69.3			
N	1164.0	20161	27624	10.25	10.41	*******		69.3			
S	1171.0	29652	36640	10.42	11.01	•••••		69.3			
E	1919.1	36641	39624	11.04	11.11	* * * * * * * *		25.5			
W	1918.0	39625	43280	11.12	11.20	********		25.5			
E	1917.0	43281	46176	11.21	11.27	•••••		25.5			, , , , , , , , , , , , , , , , , , , ,
. .	1916.1	49737	53320	11.49	11.57			25.5			~
E	1915.0	53321	56288	11.58	12.05	*******	* * * * * * * * * * * * * * * * * * * *	25.5	*****		
W	1914.0	56289	59952	12.06	12.14			25.5			
E	1913.0	59953	64464	12.19	12.28			40.3	*****		
W	1912.0	64465	69744	12.29	12.41			40.3	*****		
E	1911.0	69745	74216	12.42	12.51	* * * * * * * * * * * * * * * * * * * *		40.3			
 W	1910.0	74217	83872	12.52	13.13		*	74.0			
Ε	1909.0	83873	91696	13.14	13.30	*******		74.0			
∺ W	1908.0	91697	101304	13.31	13.51	••••••	• .• • • • .•	74.0			
:: Е	1907.0	101305	108144	13.52	14.07		× • • ,• • ,• • •	64.4	******		
: S	1248.0	108145	113928	14.09	14.21			43.0	13		
				!. <u> </u>		• • • • • • • • • • • • • • • • • • • •		1.14.4.	'		
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ŀ	KEVRON (GEOPHY	rsics		FORS FL						12 0 56
۸	MT	CHARLES			MAGNETO	METER	. / . / /				ROMETER
P	ircraft VI	H-KAC KALOTA MACDONALI		Sample F Mag. F.S Mag. F.S		0.125 100 _{nT} 1000			stal Size		1.0 33.8 16.8L/33.8 L
	Dataman	WILLIAN	M CRFFK		ALTIME	TER		K40			(FSD) IN FLIGHT
Т	ake off lying time	Land		Radar	Ititude 20	0	FT/CM	Bi214 TL20	8	200 200	200200
Hdg	LINE	FIDI	UCIAL	ті	ME		IMITS	Kms	VIDEO	TAPE	COMMENTS
		Start	End	Start	End	Start	End	KIIIS	No.	No.	COMMENTS
N.	1247.0	0	4752	15.52	16.02	.,		43.0	13	13	
W	1906.0	4753	13408	16.04	16.22			64.4			
E	1950.0	13409	20328	16.23	16.38			64.4			
W	1904.0	20329	28728	16.39	16.55			64.4	13/14		
E	1903.0	28729	35616	16.56	17.13			64.4			
W	1902.0	35617	45160	17.14	17.21			41.6			
Ε	1901.0	41561	46032	17.22	17.37			41.6			
S	1172.0	46033	54848	17.42	18.01	.,,,,,,		69.3	,		
N	1165.0	54849	62264	18.02	18.17			69.3			
S	1173.0	62265	71136	18.18	18.37			69.3			
N	1166.0	71137	78624	18.38	18.53	• • • • • • • •		69.3			
• • • •									• • • • • •		
•	0031.0	89033	89808	* * * * * * * * * * * * * * * * * * * *		,				- • • • • •	High Level
S	0002.0	89809	90864	19.34	19.37			• • • • • • • • • • • • • • • • • • • •			Test Line
·	0014.0	0									Background
	0015.0			•••••					••••		
	0016.0				, ,						Thomium
	• • • • • • • • • • • • • • • • • • • •	,	••••••						•••••		Uranium
	0017.0				• • • • • • • • • • • • • • • • • • • •						Cs 137
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	• • • • • • • • • • • • • • •				PRODUCT	ION =	730.3	Km			,
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KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No. 13 5 Date7/11/ 1991 JOB No. 1136 5													
	MT	CHARLES	<u> </u>	T	MAGNETO						ROMETER		
Ai Pi	ea rcraft ΚΔΙ ΩΤΑΝ	/H-KAC	and the second	Sample R Mag. F.S.	ate 0.	125 100 nT) nT	Sam Crys	nple Rate stal Size)	1.0 33.8 16.8L/33.8 L (FSD) IN FLIGHT		
Ai Ta	ntaman rport W] ke off ying time	Land		Radar			FT/CM	Bi214	B	200 200 200	200 200 200 200		
ldg	LINE	FIDL Start	JCIAL End	<u> </u>	ME .	LINE L Start		Kms	VIDEO No.	TAPE No.	COMMENTS		
\neg	0010.0	0	od to the program and an extension		** , *				14	14	Cs 137		
•••	0011.0		*****					********	•••••		Uranium		
• •	0012.0		*************			*******	••••••				Thorium		
	0013.0				,,						Background		
	0001.0	0	944		09.29			•••••	• • • • • •	 	Test Line		
	0050.0	945	1696		09.35						High Level		
. 	1180.0	1697	9008	09.38				69.3			might Level		
	1174.1	9009	18048	09.54	10.13	,		69.3	• • • • • _?		Recorded as 117		
-	1181.0	18049	25312	10.14	10.13			69.3		<i>.</i>	necorded as 117		
-	1175.0	25313	34192	10.14	10.29			69.3	•••••				
-	1182.0	34193	41672	10.50	11.06	•••••		69.3					
.													
.	1176.0	41673	50576	11.07	11.25			69.3					
-	1183.0	50577	58248	11.26	11.42			69.3					
-	1177.0	58249	67264	11.43	12.02			69.3		. ,			
.	1184.0	67265	74752	12.03	12.18	,		69.3	•.••••				
-	1178.0	74753	83336	12.19	12.37		,	69.3					
	1185.0	83337	90800	12.38	12.53			69.3	15/				
	1179.0	90801	99328	12.54	13.12			69.3					
	1186.0	99329	106776	13.13	13.28			69.3					
	1193.0	106777	115256	13.29	13.47			69.3	,	 			
	1187.0	115257	122696	13.48	14.04			69.3		 			
	1194.0	122697	131128	14.05	14.22			3					
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.				,	PRODUC	ION =	1109.0	D KM					
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	KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No. 14 U 58												
* #		GEOPHY 1 009 190 925	/SICS		7/			r.			14 U 58		
Δ	rea	MT CHARL	ES		MAGNETO	METER			S	SPECT	ROMETER		
j.	ircraft VI	H-KAC ALOTAY			late 0	.125		San	ple Rate	, 1	.0		
1	ilot perator	MACDONAI	LD-	Mag. F.S.	D. Fine D. Coarse	100 nT	1000 _{nT}	Cry			16.8L/33.8 L		
1				wag. 1.0	ALTIME					20	(FSD) IN FLIGHT 101 10		
3	irport		M. CREEK	Survey A	ltitude 8	0	metres	Bi214		20	0 200		
1	ake off		hours	Radar	200		FT/CM	TL20		200	*** ***** ****** (******* *************		
	ng salah galah garan salah	,	UCIAL		200 ME		FT/CM LIMITS	Total	Count	200			
ldg	LINE	Start	End	Start	End	Start	End	Kms	No.	No.	COMMENTS		
N	1188.0	0	7664	15.22	15.38			69.3	16	15			
S	1195.0	7665	16424	15.39	15.57			69.3					
N	1189.0	16425	24048	15.58	16.14			69.3					
s	1196.0	24049	32920	16.15	16.33			69.3		<u>.</u> .			
N	1190.0	32921	40368	16.34	16.49			69.3	16				
S	1197.0	40369	48952	16.50	17.08			69.3	17				
V	1191.0	48953	56536	17.09	17.25			69.3					
s	1198.0	56537	65104	17.26	17.44	*,* , * , * * * *		69.3					
V	1192.0	65105	72752	17.45	18.00			69.3					
s	1199.0	72753	81560	18.01	18.20			69.3			, , ,		
۱	1207.0	81561	88264	18.21	18.35	- • • • • •	,	61.3					
3	1200.0	88265	96032	18.36	18.52			61.3					
V	1208.0	96033	102632	18.53	19.06			61.3	·		A		
· · · · S	1201.0	102633	110344	19.01	19.23			61.3			***************************************		
	0031.0	110345	111103		19.29			, , , , , , , , ,	- • • • • • •		High Level		
3	0002.0	111104		19.35	**************************************						Test Line		
• • • •	0014.0	0			• • • • • • • • • • • •						Background		
	0015.0		• • ,• • ,• • ,• • • • • •	••••					• • • • • •		Thorium		
• • •	0016.0		.,			••••••					Uranium		
	0017.0	• • • • • • • • • • •	• • • • • • • • • • • • • •		• • • .• • • .• • • • • •	,			• • • • • •		Cs 137		
	• • • • • • • • • • • • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·	,		* * * * * * * * * * * * * * * * * * * *			US 137		
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	KEVRON GEOPHYSICS Date8/11/1991 FLIGHT No													
L					Date.			91	<u> </u>					
Osami un tablesia		VL VL	CHARLES I-KAC			MAGNETO	METER					ROMETER		
			CALOTAY		Mag. F.S.		00 _{nT}					1.0 3.8 16.8L/33.8 L		
immenserind the		perator	1A CDONAL [)	Mag. F.S.	D. Coarse	1000	nT	Ciy					
		ataman	WILLIAN	1 CREEK	ļ	ALTIME	TER 80	 			000	(FSD) IN FLIGHT 200 200		
		ake off	Land		Survey A Radar	Ititude	200	metres FT/CM		l 8	200			
Ĺ	FI	ying time		hours		••••••	200	FT/CM	Total	Count	2000	2000		
Н	dg	LINE	FIDI Start	UCIAL .		ME E	LINE L		Kms	VIDEO No.	TAPE	COMMENTS		
-	\dashv	0010 0		End	Start	End	Start	End			1.0	C- 127		
-	$\cdot \cdot $	0010.0	0				,		•••••	7	16	Cs 137		
Section States		0011.0						•••••••	· ·			Uranium		
-		0012.0			*********	, , , ,	• • • • • • • • • • • • • • • • • • • •	••••	• • • • • • • •	•••••	• • •	Thorium		
		0013.0						•••••	,			Background		
1		0001.0	0	888	09.12	09.14		,	•••••	,		Test Line		
		0030.0	889	1640	09.18	09.20	4.444.4		,		:	High Level		
ļ	- 1	1209.0	1641	8200	09.24	09.38			61.3	• • • • • • •	• • • • •			
	$\left\{ \right\}$	1202.0	8201	16480	09.39	09.57			• • • • • • • •	17/18	} 			
	N	1210.0	16481	23024	09.58	10.11			61.3					
	S.	1203.0	23025	31024	10.12	10.29		-10,000	61.3					
	N.	1211.0	31025	37744	10.30	10.44			61.3					
1	S	1204.0	37745	45672	10.45	11.02			61.3					
	N	1212.0	45673	52248	11.03	11.17			61.3					
	Ş	1205.0	52249	60048	11.18	11.34			61.3	,				
Albertally	N.	1213.0	60049	66608	11.35	11.48			61.3					
	S.	1206.0	66609	74440	11.49	12.06			61.3					
·	N.	1214.0	74441	81176	12.07	12.21			61.3	,				
S Sylvenson Security S	S	1215.0	81177	89144	12.22	12.39			61.3					
	N.	1216.0	89145	95904	12.40	12.55			61.3	18/1	9			
•	S	1217.0	95905	101592	13.00	13.12			43.0					
١,	N	1225.0	101593	106376	13.13	13.23			43.0			,		
Committee Committee	S.	1218.0	106377	111889	13.24	13.35		,	43.0					
	N	1226.0	111890	116656	13.36	13.47			43.0					
	S	1219.0	116657	122111	13.48	13.58	 ,		43.0	,				
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<u>.</u>		*** *** * * * * * * * * * * * * * * * *	 											
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						PRODUCT	ION =	1011.9	Km		ļ,			
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	KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No. 16												
K		EOPHY 1009 190 925	'SICS `		8/			'"" F	LIGHT N OB No.	۱٥	1136 0 60		
^	MT Cl	HARLES			MAGNETO	METER					ROMETER		
	ircraft		a see a		ate0			San	nple Rate	·	10		
	lot perator	KALOTA		T 7	D. Fine D. Coarse		000 - -	Cry	stal Size		33.8 16.8K/33.8 L		
	perator ataman		IVED	IVIAG. F.S.	ALTIME		JUU III				(FSD) IN FLIGHT		
	irport		AM CREEK	Survey A	ltitude		metres		 L <u>.</u>		200 200		
	ake off ying time		hours	Radar	200		FT/CM	1	8				
	· · · · · · · · · · · · · · · · · · ·	FIDI	JCIAL T		200 ME	LINE L		Total	Count	TAPE			
Hdg	LINE	Start	End	Start	End	Start	End	Kms	No.	No.	COMMENTS		
N	1227.0	0	4944	15.12	15.22			43.0	19	17	******		
S	1220.1	5193	10768	15.26	15.38			43.0			*****		
N.	1228.0	10769	15600	15.39	15.49			43.0					
S	1221.0	15601	21008	15.50	16.01			43.0		 			
N	1229.0	21009	25873	16.02	16.12			43.0					
S	1222.0	25873	31176	16.13	16.24			43.0					
N	1230.0	31177	36024	16.25	16.35			43.0					
s	1223.0	36025	41464	16.36	16.47			43.0					
N	1231.0	41465	46208	16.48	16.58			43.0					
S	1224.0	46209	51568	16.59	17.10	*********	••••		19/20				
	• • • • • • • • • • • • • • • • •						*						
N	1235.0	81689	86416	18.18	18.27			43.0					
S	1242.0	86417	91736	18.28	18.40		•••••	43.0			4,44,444444444444444444444		
 N	1336.0	91737	96357	18.41	18.50		,	43.0	,				
:: S	1243.0	96353	101664	18.51	19.02		.,	43.0	.,,.				
 N	1237.0	101665	106336	19.03	19.12				,.,.		,		
:: S	1244.0	106337	111592	19.13	19.23		•.••••	43.0			,,		
у И	1238.0	111593	116224	19.24				43.0			,,		
:\ S	1245.0				19.34		••••	43.0					
• • • •		116225	121424	19.35	19.46			43.0					
<u>N</u>	1236.0	121425	125944	19.46				43.0					
	0044.0	•••••	,		• • • • • • • • • • • • • • • •			•••••••					
	0014.0										Background		
	0015.0						• • • • • • • •				Thorium		
	0016.0							.,			Uranium		
• • • • •	0017.0		,		••••			,			Cs 137		
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ŀ	KEVRON GEOPHYSICS OPERATORS FLIGHT REPORT FLIGHT No. 17 Date 10./ 11./ 19 91 136 0 61												
	мт	CHARLES		1	MAGNETO	METER					ROMETER		
,A	ircraft VI	I-KAC ALOTAY		Mag. F.S.	ate0 D. Fine 100 D. Coarse	Tn 0	nT		nple Rate stal Size	3.3	1.0		
A	oataman	Land		Radar			FT/CM	Bi214 TL20		200 200 200	200 200 200 200		
ldg	LINE	FIDU Start	JCIAL End	TI Start	ME End	LINE L Start	IMITS End	Kms	VIDEO No.	TAPE No.	COMMENTS		
	0010.0 0011.0 0012.0	Ω							.21	.18.	Cs 137 Uranium Thorium		
	0013.0 0001.0	0	1072	09.13		 • • • • • • • • • • • • • • • • • •			•••••	,	Background Test Line		
	0030.0 1232.1	1073 1809	1808 6992	09.21	09.23						High Level		
N S	1239.1	6993	12016	09.29	09.40 09.52			430)		Refly - Diurnal		
N S	1233.1 1240.1	12017 17065	17064 21960	09.53	10.03 10.14			43.0					
N S	1234.1 1241.1	21961 27097	27096 31904	10.15	10.26 10.37			.43.0	•••••				
	0031.0	31905	32640	••••	10.42				•••••		.High.Level		
.S. .N.	0002.0	32641 33457	33456 34560	10.45	10.47	• • • • • • • • • • • •					Test Line + Plx		
	0014.0								•••••		Background		
	0015.0 0016.0								******		Thorium Uranium		
,	0017.0	,	*********			*****		•••••		• :• • • • •	Cs. 137		
			*************				,	,					
• • •	• • • • • • • • • • • • • • • •					••••			•••••	• • • • • •			
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APPENDIX 3

RADIOMETRIC CALIBRATIONS

MOUNT CHARLES

HAND SAMPLE CHECKS

STATISTICAL ANALYSIS

FLIGHT	SOURCE		TOTAL COUNT		POTASSIUM		URANIUM		THORIUM	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	
2	Cs 137	7400	7300	270	265	60	65	85	85	
.2	U	8 1 50	8100	400	400	240	250	95	90	
	Th		.6900	550	570	260	260	760	775	
	Bkdg	3600	3600	265	260	60	200 55	80	80	
	Drag	3000	3000	203	200	00	55	80	80	
DI TOUM	COUDGE	momat c	OTDE	роша	COTINE	TTD 3		muor	~~~~	
FLIGHT	SOURCE	TOTAL C			SSIUM		NIUM		RIUM	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post.	
3 & 4	Cs 137	7300	7200	260	260	60	60	80	90	
	U	8100	8000	400	400	240	240	95	95	
	Th	16900	16850	570	560	260	275	780	780	
	Bkdg	3500	3550	260	260	55	55	75	80	
FLIGHT	SOURCE	TOTAL COUNT		POTA	POTASSIUM		URANIUM		THORIUM	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	
5 & 6	Cs 137	7200	7250	260	260	50	55	80	85	
	U II.	8600	8000	390	390	240	250	95	90	
	Th	16800	16800	540	550	260	260	760	765	
	Bkdg	3400	3500	260	255	50	55	. 80	80	
		0.00		200	200	3.3		. 00	0,0	
FLIGHT	SOURCE	ጥር ጥል ፕ ሮ	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM	
THIGHT	BOOKCE	Pre	Post	Pre	Post	Pre	Post	Pre	Post	
,		116	1030	I T'C	FUSC	FIC	FUSC	FIE	FOSC	
7 & 8	Cs 137	7250	7250	260	250	6.0	55	80	85	
	U	8050	8100	390	390	250	250	90	85	
	Th	16900	17000	550	550	270	265	780	780	
	Bkdg	3500	3500	250	250	55	55	80	85	
FLIGHT	GHT SOURCE TOTAL COUNT		POTA	POTASSIUM		URANIUM		THORIUM		
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	
9 & 10	Cs 137	7100	7100	260	260	55	55	80	75	
· · · · · · · · · · · · · · · · · · ·	U	7900	7900	390	390	245	250	90	90	
	Th	16600	16650	555	550	255	260	780	780	
	Bkdg	3400	3350	255	260	50	55	75	75	
FLIGHT	HT SOURCE TOTAL COUNT		POTA	POTASSIUM		URANIUM		THORIUM		
			Post	Pre	Post	Pre	Post	Pre	Post	
11 & 12	Cs 137	7200	7200	265	255	55	50	75	75	
	U U	8000	7900	390	390	250	250	90	90	
	Th		16650	560	560	260	260	780	790	
	Bkdg	3400	3400	260	255	50 50	53	750 75	75 75	
	~	3400	- I - O - O	200		<i>-</i>	<i>-</i>	, ,	, ,	

FLIGHT	SOURCE	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post
13 & 14	Cs 137	7200	7150	265	255	55	55	80	80
	U	8000	7900	400	400	240	230	85	90
	Th	16700	16750	555	550	260	260	760	780
	Bkdg	3300	3300	265	260	50	55	80	80
FLIGHT	SOURCE TOTAL COUNT		COUNT	POTASSIUM		URANIUM		THORIUM	
1210111	DOUNCE	Pre	Post	Pre	Post	Pre	Post	Pre	Post
15 & 16	Cs 137	7200	7200	250	250	50	50	80	80
	U	8000	8000	390	390	230	240	95	90
	Th	16750	16700	550	560	265	265	780	780
	Bkdg	3400	3450	255	255	50	50	80	80
FLIGHT	SOURCE TOTAL COUNT		COUNT	POTASSIUM		URANIUM		THORIUM	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post
17	Cs 137	7400	7400	260	260	60	65	80	80
	U	8300	8300	400	400	260	260	.90	90
	Th	17200	17200	550	550	270	270	780	780
	Bkdg	3700	3700	260	260	60	70	80	75

FIELD TAPE DESCRIPTIONS

RAW DATA FIELD TAPE FORMAT

Line - Number	8	13
Flight - Date	14	20
Time	22	32
SPG - Trigger	35	
		35
Fiducial	37	42
Raw Mag	44	52
Compensated Mag	53	62
SPG - Trigger	67	67
Fiducial	69	74
Raw Mag	76	85
Compensated Mag	86	95
SPG - Trigger	99	99
Fiducial	101	106
Raw mag	108	117
Compensated mag	118	127
SPG - Trigger	131	131
Fiducial		
	133	138
Raw Mag	140	149
Compensated Mag	150	159
SPG - Trigger	163	163
Fiducial	165	
		170
Raw Mag	172	181
Compensated Mag	182	201
SPG - Trigger	195	195
Fiducial	197	202
Raw Mag	204	213
Compensated Mag	214	223
SPG - Trigger	227	227
Fiducial	229	234
Raw Mag	236	245
——————————————————————————————————————		•
Compensated Mag	246	255
SPG - Trigger	259	259
Fiducial	261	266
Raw Mag	268	277
Compensated Mag	278	287
Radar Altimeter		
	292	298
Barometric Altimeter	299	305
Accum time	321	328
ADC Down total	330	337
Total Count 1	339	
		346
Total Count 2	348	355
K40	357	364
Bi214n	366	373
Bi214w	375	382
T1 208		
	384	391
Cosmic	393	400
ADC Up Total	402	409
Total Count	411	418
Bi 214n		
	420	427
Dplr Zone	429	432
Dplr Utmsq	436	437
Dplr east	438	444
SPG Shot Count	489	494
SPG Sync	496	496
SPG Time	498	502
SPG Line	504	507
SPG Lat	509	517
SPG Long	519	528
SPG Height	530	534

SPG Pdop	535	538
SPG Hdop	540	543
SPG Vdop	545	548
SPG Svs	550	551
SPG Time Diff	553	553

Logical Record Length 635 Bytes

LOCATED DATA TAPE DESCRIPTION

LOCATED DATA TAPE FORMAT

LREC	=	162	Bytes
Block Size	=	8100	Bytes
Recording Density	===	6250	bpi

One logical record of the data contained:

DATA	AA
LINE NUMBER	18
FLIGHT DATE	18
FIDUCIAL	F12.1
EASTING	F12.1
NORTHING	F12.1
RAW MAGNETICS	F9.2
DIURNAL CORRECTIONS	F9.2
LEVELLED MAGNETICS	F9.2
RADON ALTIMETER	F7.2
BAROMETRIC ALTIMETER	F7.2
RAW TOTAL COUNT	F7.0
RAW POTASSIUM	F6.0
RAW URANIUM	F6.0
RAW THORIUM	F6.0
CORRECTED TOTAL COUNT	F7.0
CORRECTED POTASSIUM	F6.0
CORRECTED URANIUMG	F6.0
CORRECTED THORIUM	F6.0
COSMIC	F6.2
LOCAL TIME (HH.DDDD)	F9.5

GRIDDED DATA TAPE DESCRIPTION

KEVRON GEOPHYSICS GRIDDED DATA TAPE FORMAT

Standard 9 track tape on any size reel written at 1600 BPI.

Each data type (eg. magnetics, total count, etc) to be in separate files.

The entire data set of each type is to be in a single file with no file marks other than EDF.

There is one header block at the start of each file. This block should ideally be 1440 bytes long but can be a different length if this is awkward.

The data is to be written in 4 byte integer format. Data should be multiplied by a scaling factor to maintain precision in integer format.

The definition of directions are as follows:

ROW=LINE=NORTH COLUMN=PIXEL=EAST

The number of pixels per line = NP
The number of lines = NL

The data is to be written sequentially from the top left (northwest) corner with the pixel (column) location varying the most rapidly. This means that Line 1 is written first starting with Pixel 1 and ending with Pixel NP. The last data data point written is Line NL, Pixel NP being the bottom right (southeast corner).

Each line is to be written as a single block. This means that the data block length will always be NP * (4 bytes).

No delimiters such as CR/LF are used.

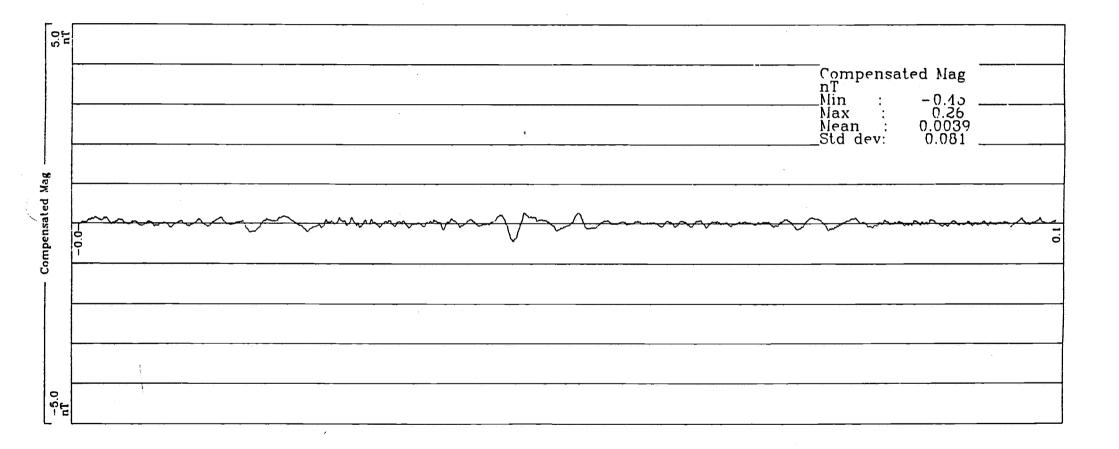
The image orientation should be generally north-south but with a rotation if considerable reduction in overall image size can be achieved.

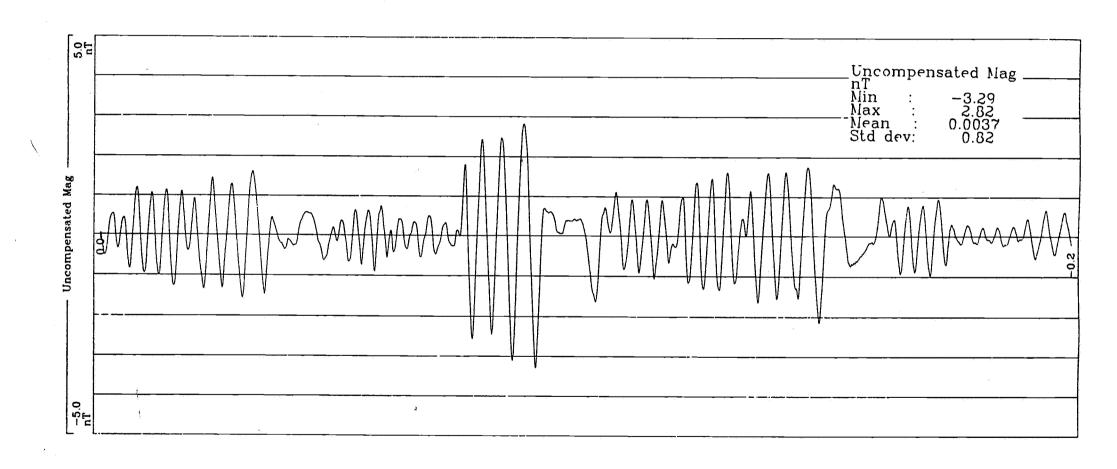
The header block should contain the following information (EXAMPLE DATA SHOWN):

CREATION DATA: 6 JUNE 1987 AREA NAME: MARDA AMG ZONE: 50.00 DATA NAME: MAGNETIC INTENSITY AMG UPPER LEFT (EAST) (X): 701400.00 AMG UPPER LEFT (NORTH) (Y): 6547450.00 GRID ROATION (DEG.CLKWSE FROM NTH): 32.00 GRID MESH SIZE (METRES) (X): 50.00 GRID MESH SIZE (METRES) (Y): 50.00 NUMBER OF GRID POINTS: 337148.00 MAXIMUM DATA VALUE: 649355 MINIMUM DATA VALUE: 525303

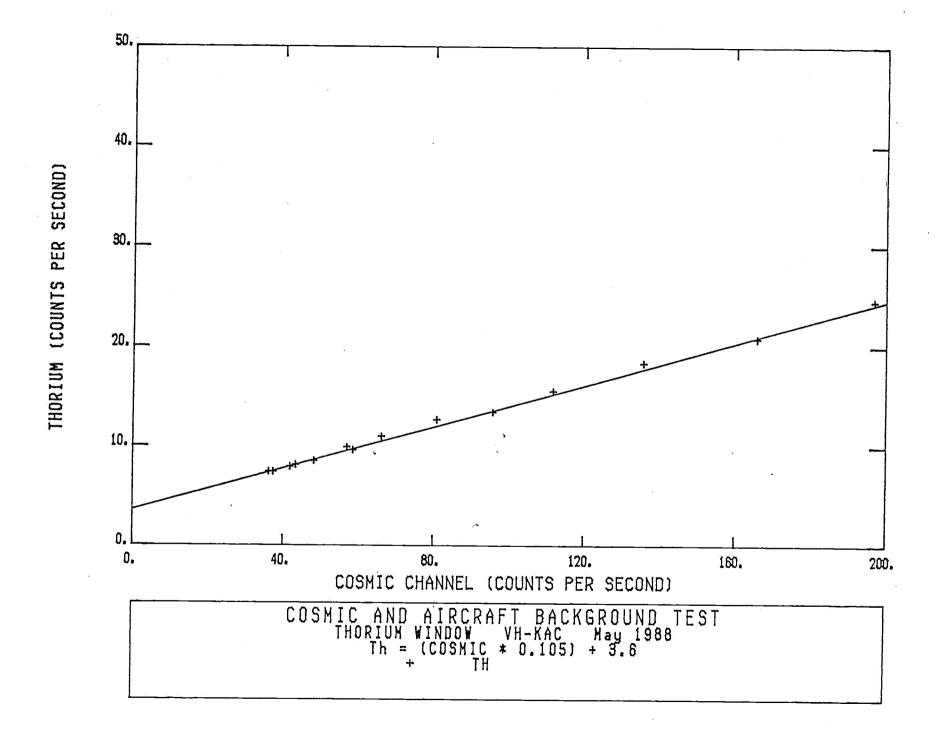
MEAN DATA VALUE:	545391
SCALE FACTOR:	10
DATUM SHIFT:	0
GRID DIMENSIONS (X) (PIXELS):	859
GRID DIMENSIONS (Y) (LINES):	1009
TAPE HEADER BLOCK SIZE (BYTES):	1440
TAPE DATA BLOCK SIZE (BYTES):	3436
NULL VALUE:	-32767

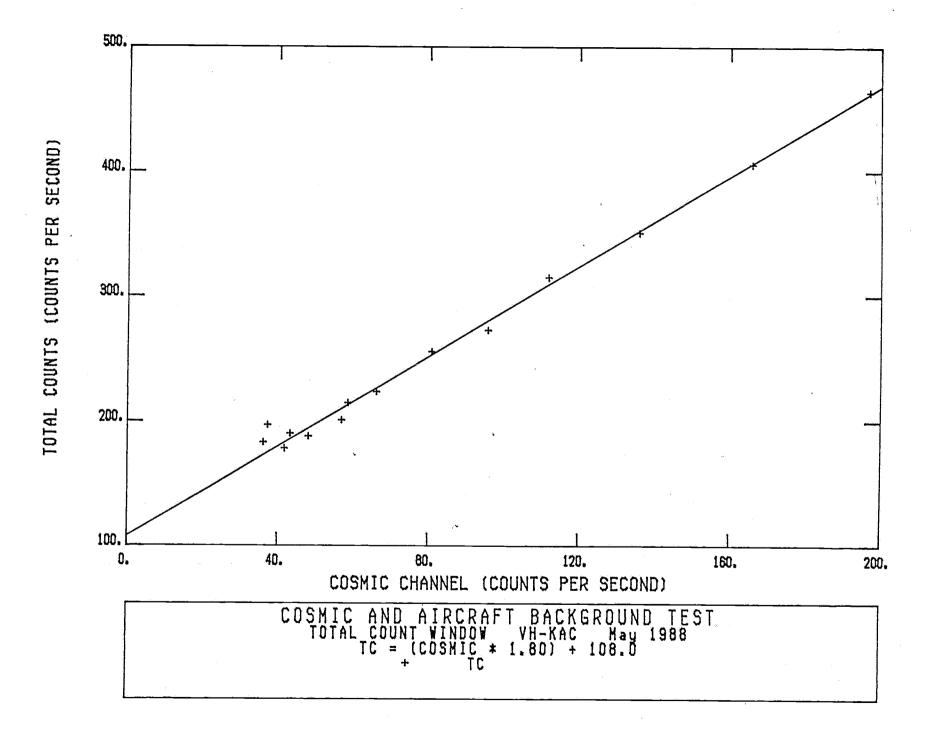
HEADING/COMPENSATION CALIBRATIONS

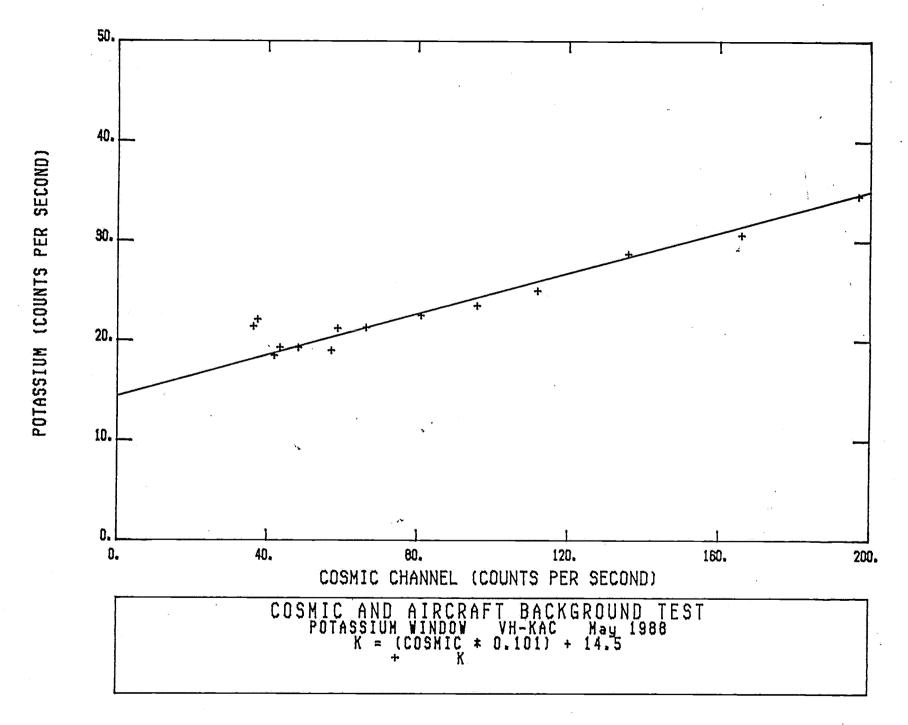


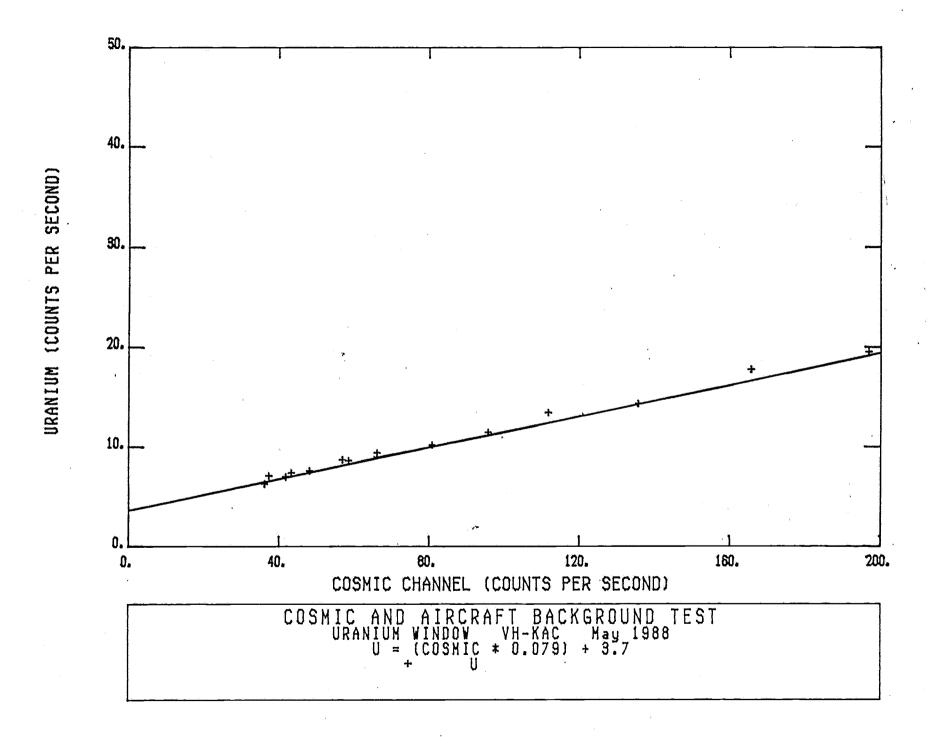


RADIOMETRIC BACKGROUND PLOTS









CRA EXPLORATION PTY. LIMITED

COMBINED FOURTH & FIFTH QUARTERLY REPORT FOR MOUNT DENISON EL 1720, SOUTH AUSTRALIA, FOR THE PERIOD ENDING 12TH AUGUST, 1992

AUTHOR:

M.J. DONNELLY

COPIES TO:

<u>SADME</u>

CIS CANBERRA

DATE:

3RD SEPTEMBER, 1992

SUBMITTED BY: ¿

ACCEPTED BY:

MAK



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SAa 5705	Mount Denison EL 1720, SA, Sample Location Plan	1:100 000
SAa 5734	Mount Denison EL 1720 & Mount Charles EL 1756, S.A., Spring Hill Prospect, Outcrop Geology Plan	1: 10 000
SAa 5837	Spring Hill Prospect, Gravity Survey, 1992, Bouguer Gravity Contours	1: 50 000
SAa 5876	Mount Denison EL 1720, SA, Geophysical Investigations	1:100 000
SAa 5886	Mount Denison EL 1720, SA, Peake Prospect, Helirad Profiles	1: 25 000
SAa 5888	Mount Denison EL 1720, SA, Cadlareena Prospect, Helirad Profiles	1: 25 000
SAa 5892	Mount Denison EL 1720, SA, Spring Hill Prospect, Line 611400mE - Mag/Grav	1: 25 000
SAa 5893	Mount Denison EL 1720, SA, Spring Hill Prospect, Line 609000mE - Mag/Grav	1: 25 000

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Table 1 Follow Up of Dipolar Magnetic Anomalies

LIST OF APPENDICES

Appendix I Rock Sample Ledgers and Assays

1. <u>SUMMARY</u>

Uranium-channel anomalies from the 1991 airborne magnetic/radiometric survey were followed up with helicopter-borne radiometrics and ground investigation. Anomalies were attributed to basic volcanics, granite and calcrete. A helicopter radiometric survey was flown over the Algebuckina inlier.

Dipolar magnetic anomalies from the 1991 airborne survey were investigated and attributed to amphibole-plagioclase gneiss, amphibolite, dolerite and basic schist.

Traverses were made across an area of Cu anomalism in the vicinity of Coppertop Hill. Basalts with minor quartz-carbonate-malachite veining contain elevated Cu values.

A gravity survey was conducted over a 10 km x 15 km area in the vicinity of Spring Hill to test for a concealed Roxby-style target. The eastern half of the survey lies within the adjacent EL 1756. A gravity high was defined, with the most intense high coincident with the Spring Hill inlier.

2. INTRODUCTION

Mount Denison EL 1720 is situated within the Peake and Denison Ranges and covers an area of approximately 2298 sq km (plan SAa 5485). The southern boundary to EL 1720 is located 20 km northwest of William Creek. The exploration licence was granted to CRA Exploration Pty. Limited (CRAE) on 13th May, 1991 for a period of one year. The licence has been renewed for a further period of one year.

The area was selected on the basis of its potential for U and base metal mineralisation. The licence area also has potential for diamond and Au mineralisation.

This report details work completed during the fourth and fifth quarters of tenure of Mount Denison EL 1720 for the period ending 12th August, 1992.

3. WORK COMPLETED DURING THE FOURTH & FIFTH OUARTERS

3.1 Radiometric Surveying and Follow Up

During 1991, an airborne magnetic/radiometric survey was flown over a portion of EL 1720 (plan SAa 5876). Radiometric U channel anomalies identified from this survey were followed up during the fourth quarter of tenure using a helicopter-borne spectrometer and ground investigation. Helicopter surveys were flown over the Cadlareena and Peake Creek areas as these areas contain anomalies identified from the 1991 survey. The Sandy Creek Springs anomaly was followed up. The Algebuckina inlier, though not covered by the 1991 survey, was also surveyed. The locations of these four areas are shown on plan SAa 5876.

Radiometric data collected during the helicopter surveys was measured with a GR-410 spectrometer with a 256 cubic inch NaI crystal. Approximate flying height was 20 m and line spacing 200 m. Only U-channel data was collected.

3.1.1 Cadlareena

Radiometric data from the Cadlareena area is presented as plan SAa 5888. Most of the anomalies occur over the basics of the Adelaidean Cadlareena Volcanics.

The high amplitude anomaly (approximately 7 times background) occurs in the vicinity of fiducial number 108. Basic volcanics with hematite-quartz veining register 400-600 cps on a BGS-4 scintillometer. Rock samples 2544543 and 2544544 assayed 40 and 55 ppm U respectively (Appendix I). The radiometrically anomalous basics occur over a 60 m width immediately above the contact with quartzite. A trench has been previously excavated at this anomaly by Uranerz in the early 1970's.

Similarly for the anomalies at fiducials 40 and 77, anomalous radioactivity of 200-500 cps were found over basics near the base of the Cadlareena Volcanics. Rock sample 2544547 of basic volcanic from the vicinity of fiducial 40 assayed 35 ppm U (plan SAa 5705, Appendix I).

It is concluded that the basal basic volcanics contain elevated levels of U resulting in radiometric anomalies. Potential for significant U mineralisation was not identified.

The radiometric anomaly between fiducials 43 and 44 occurs over a quartz scree surface with poor outcrop of foliated quartzite and quartz-muscovite schist. Readings of only 180-230 cps were recorded on a BGS-4 scintillometer.

3.1.2 Peake Creek

Plan SAa 5886 presents the radiometric data acquired from the Peake Creek area. The only anomaly ground checked is in the vicinity of fiducials 76 and 77. Outcrop in this area consists of plagioclase granite, k-feldspar granite, quartz-feldspar gneiss, amphibolite and migmatite. Readings of 300-600 cps on a BGS-4 scintillometer were found over the plagioclase granite compared to less than 300 cps for the other rock types. A granite rock sample from the most anomalous area found (1600 cps) assayed 130 ppm U and 46 ppm Th (Appendix II). This most anomalous area has a radius of less than 25 m.

3.1.3 Algebuckina

Helicopter radiometrics over the Algebuckina inlier identified only low order anomalies (plan SAa 5887).

At fiducial 93, a 12 m wide outcrop of foliated quartzite registered 250-550 cps on a BGS-4 scintillometer compared with a background of 70-80 cps over the surrounding sand cover. A rock sample of the quartzite assayed 11 ppm U and 126 ppm Th, indicating the anomaly is primarily due to Th.

The anomaly at fiducial 112 is adjacent to a Jurassic Algebuckina Sandstone Mesa Outcrop at the low amplitude anomaly (150-300 cps on BGS-4) is ironstone, vein quartz, quartz-feldspar rock and pegmatite.

3.1.4 Sandy Creek Springs

This U-channel anomaly registered at 5 times background on the 1991 airborne survey. During the course of the helicopter surveying this anomaly was used as a control line to check that the spectrometer was functioning consistently.

Ground checking of the anomaly revealed an approximate area of 80 m x 100 m registering greater than 300 cps on a BGS-4 scintillometer, to a maximum of 700 cps. The anomalous radioactivity occurs over calcrete. This calcrete lies within 200 m of Wirriecurrie Granite (160-220 cps).

The anomaly has been previously investigated in 1981 by Gem Exploration in joint venture with other companies (EL 491, SADME Env 3562). Ground radiometrics were conducted and a 1.3 m pit dug into the calcrete. Rock samples from the pit assayed up to 75 ppm U and 15 ppm Th. RAB drilling was recommended but not carried out.

It is concluded that U has been concentrated in the surficial calcrete, sourced probably from the adjacent granite. It is not thought that the anomaly warrants further investigation.

3.2 <u>Dipolar Magnetic Anomaly Follow Up</u>

Four dipolar magnetic anomalies were selected from the airborne survey over the Denison Inlier to field check for the presence of a kimberlitic diatreme. Plan SAa 5876 shows the location of the four anomalies and Table 1 summarises field observations at each of the anomalies. The airborne anomalies are to be found plans SAa 5693 & SAa 5695 in CRAE Report No. 17867.

Anomaly	Location	Amplitude (nT)	Field Checking
Denison 1	588050E 6887000N	120	Amph-plag-bt gneiss & bt amphibolite registering 30-105x10-3 SI
Denison 2	589850E 6885750N	50	40 m wide amphibolite (28x10 ⁻³ SI) & biotite schist, with thin (<0.25 m) quartzite bands.
Denison 3	586550E 6890400N	20	8 m wide dolerite (35-60x10 ⁻³ SI) within quartzites (0.05-0.3x10 ⁻³ SI)
Denison 4	588700E 6890500N	30	Dark brown photofeature. Amph-bt-feld schist, approx. 100 m wide, with mag. susc. of 0.3-3.4x10 ⁻³ SI. Mapped as basalt within Baltucoodna Quartzite. Surrounding quartzite float registers only 0.02-0.05x10 ⁻³ SI.

Table 1 - Follow Up of Dipolar Magnetic Anomalies

No kimberlitic lithologies were identified at any of the anomalies. The anomalies are attributed to gneiss, amphibolite, dolerite and basic schist. No further work is recommended.

3.3 Coppertop Hill Cu Anomaly

Previous geochemical sampling has identified an area of anomalous Cu geochemistry 1.5 km west of Coppertop Hill and 2 km north of Mt. Denison. Stream sediment sampling by North Broken Hill defined a 1.5 sq km area with anomalous values of 50-120 ppm Cu (SADME Env. 941). Traverse number 21 of Western Mining Corporation's stratigraphic soil sampling in the Peake and Denison Ranges crossed the same area and returned elevated values of >100 ppm Cu over a 700 m interval (SADME Env. 2525).

Investigation of this area during the fourth quarter of EL 1720 consisted of two traverses, spaced 500 m apart, along which a total of eleven rock samples were collected. Sample locations are shown on plan SAa 5705 and sample ledgers and assays presented in Appendix I.

Rock types consist of basalt, quartzite, phyllite and quartz-mica schist of the Peake Metamorphics. The only mineralisation observed was malachite plus trace azurite and chalcopyrite in quartz-carbonate veins within basalt and within the basalt itself. The rock sampling showed the basalt to contain elevated levels of Cu, typically 150-450 ppm (Appendix I).

The stream sediment and soil anomalies are attributed to the elevated levels of Cu in basalt and the Cu in quartz and carbonate veining. The veining is thought too limited and the amount of Cu too low in grade to warrant further investigation. No further work is recommended for this anomaly.

3.4 Spring Hill Gravity Survey

A gravity survey on 500 m centres was conducted over a 10 km x 15 km area in the vicinity of Spring Hill (plan SAa 5876). The western half of the survey lies within EL 1720 and the eastern half within CRAE's Mt. Charles EL 1756. The survey aimed to identify a Roxby-style target below Cretaceous and Jurassic sediments. Regional geophysical data show the area to possess anomalous magnetic character and a gravity high. The presence of Peake Metamorphic inliers and a relatively shallow depth to basement of 78 m in Chevron drill hole LHDH14 (SADME Env. 2182) indicates a proximity to basement for the prospect area.

Geological mapping of the inliers was carried out (plan SAa 5734). Outcrop consists of quartzite breccia, quartzite, quartz-biotite schist, basalt, dolerite and minor banded iron formation.

The results for the complete gravity survey are presented as plan SAa 5837. A ground magnetic (10 m station spacing) and gravity (100 m station spacing) traverse was made through the prospect, with the data for this traverse presented as plan SAa 5892.

The survey defined a roughly triangular shaped, 2-3 mgal high covering approximately 50 sq km. Along the northwest margin of this block there is a northeast trending, 3 mgal, 2.5 km wide gravity high. The most intense high on this feature is coincident with the Spring Hill inlier composed of quartzite breccia and lesser dolerite and basalt.

This downgrades the prospect of a concealed Roxby-style target. The overall gravity high is interpreted as a shallow basement block.

3.5 <u>Tarlton Springs Magnetic-Gravity Traverse</u>

During the course of the Spring Hill gravity survey, a magnetic-gravity traverse was made across a regional aeromagnetic feature to the east of Tarlton Springs (plan SAa 5876). As for Spring Hill, the target was a concealed Roxby-style target. The results are presented as plan SAa 5893.

A 5-6 mgal high is evident over a length of approximately 4 km. The variation in magnetics over the feature indicate a deep source. The feature is not thought worthy of further investigation.

3.6 Skillogalee Magnetic Feature

Review of regional aeromagnetic data reveals a magnetic feature lying conformably along the mapped contact between the lower and middle members of the Skillogalee Dolomite (Ambrose et al, 1981). The location of the aeromagnetic feature is shown on plan SAa 5876 and continues to the west, outside EL 1720. Ground investigation of the feature is planned for the coming quarter.

<u>M.J. DONNELLY</u>

MJD/pq

EXPENDITURE

Expenditure for the six month period ended 31st July, 1992, the nearest accounting period amounted to \$103 985, as detailed below.

		\$
Payroll & Benefits		26 083
Contractors		31 509
Laboratory		645
Field & Transport		20 739
Travel & Accommodation		83
Computer Services		1 295
Office & Miscellaneous		1 283
District Administration		15 707
Regional Overheads		6 641
	Total	\$103 985

REFERENCES

Ambrose, G.J., Flint, R.B. &

Precambrian and Palaeozoic Geology of the Peake and Denison

Ranges.

Webb, A.W.

Bull. Geol. Surv. S. Aust., 50.

1981

Donnelly, M.J.

1992

Third Quarterly Report for Mount Denison EL 1720, South Aust-

ralia, For The Period Ending 12th February, 1992.

LOCATION

Oodnadatta Warrina SG5315

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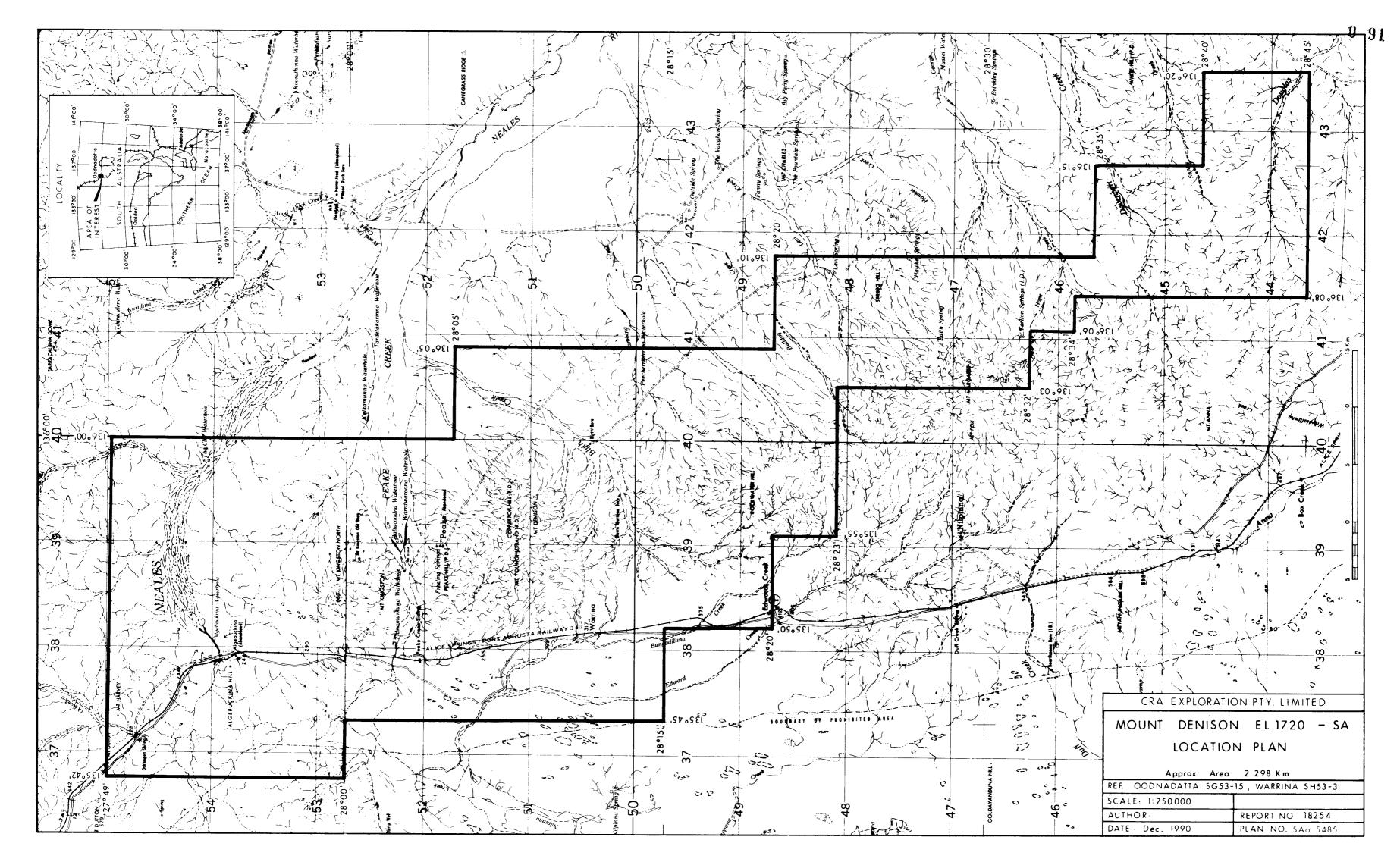
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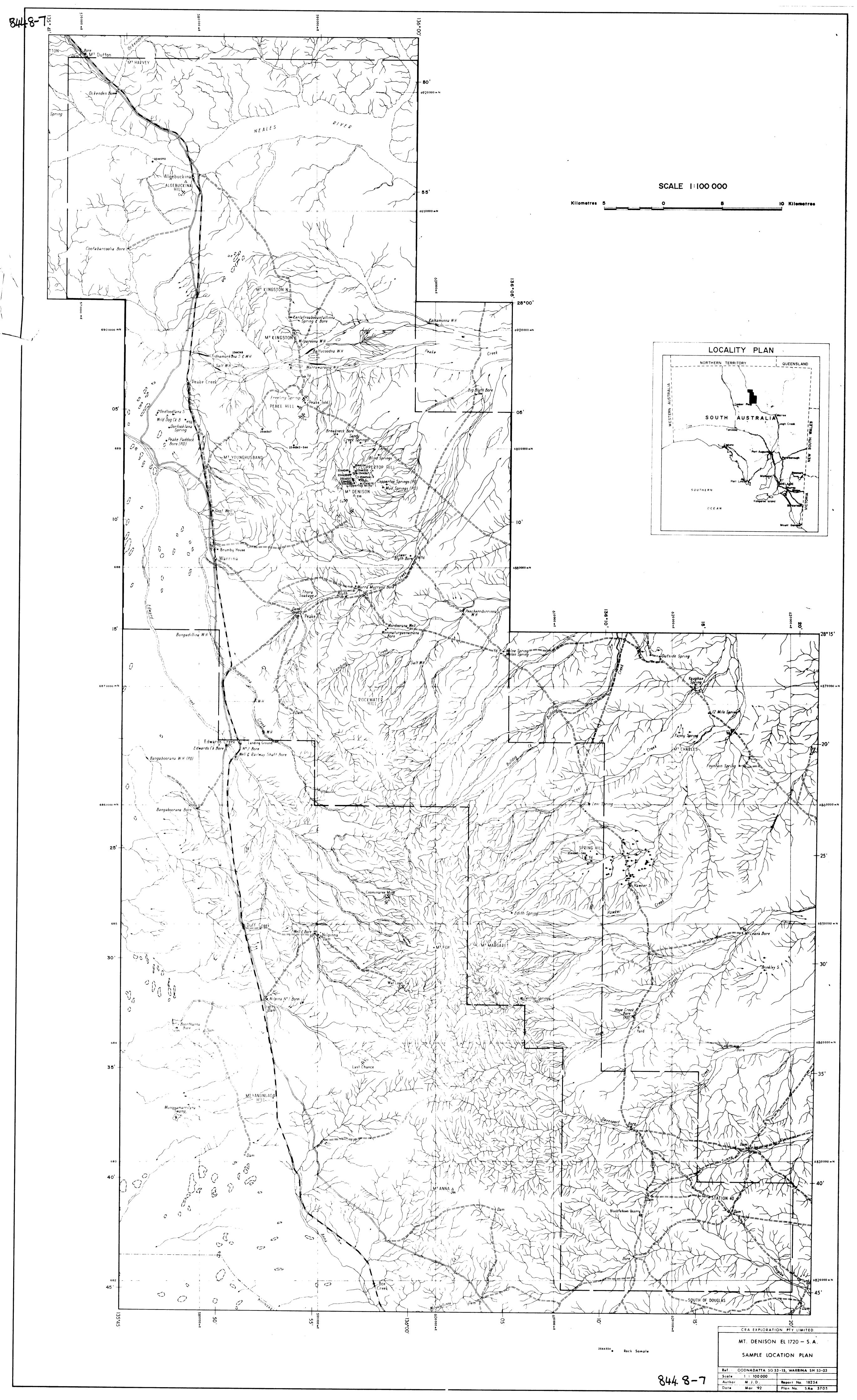
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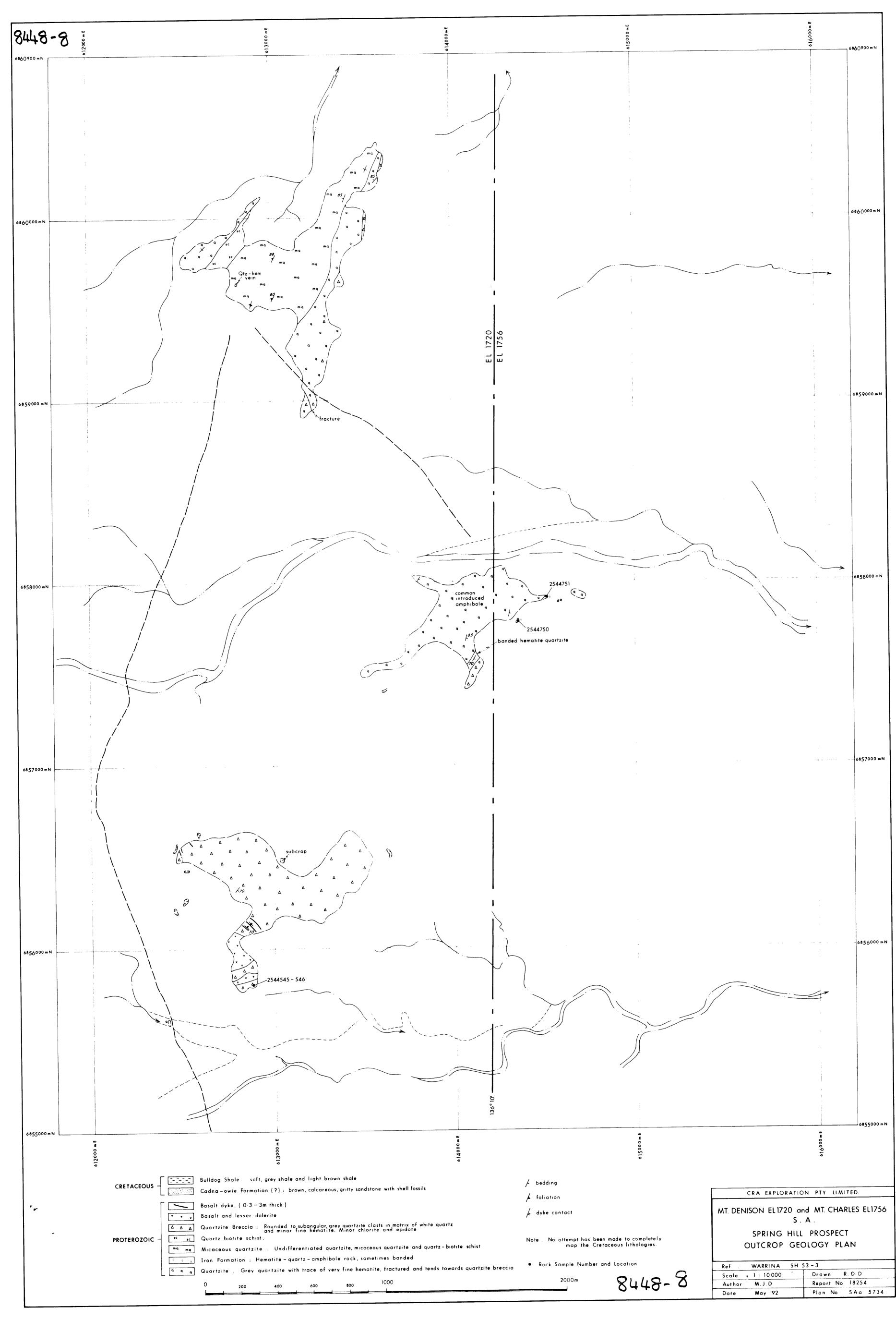
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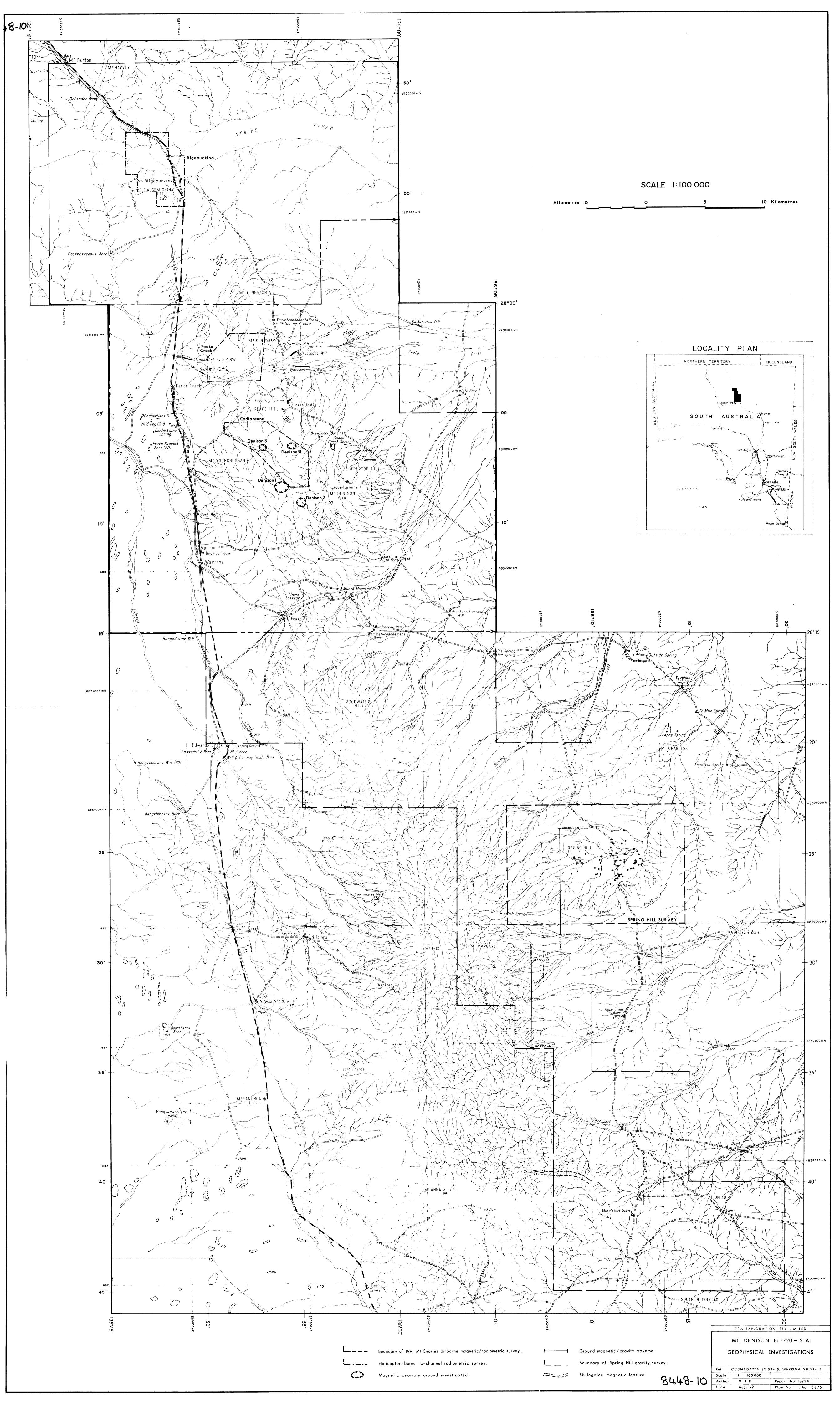
37897, 37780

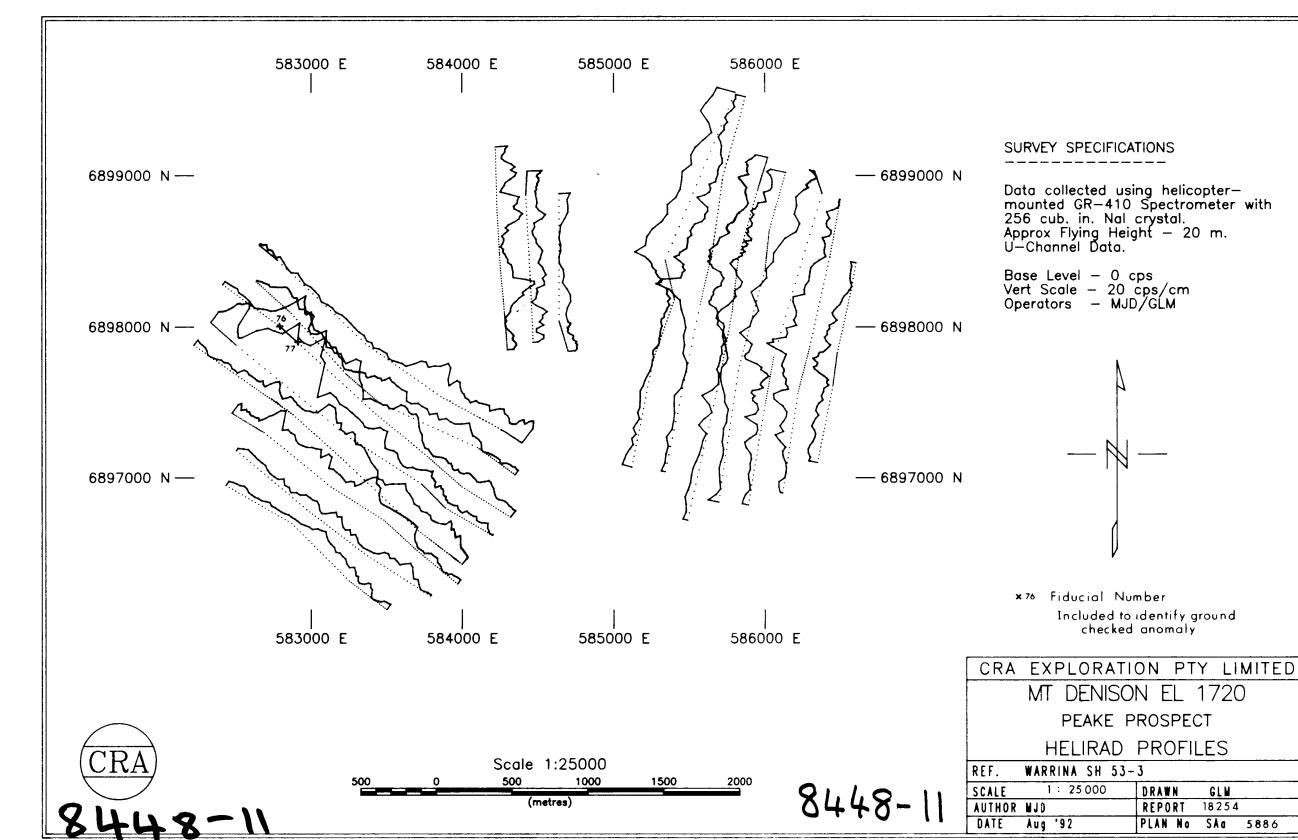


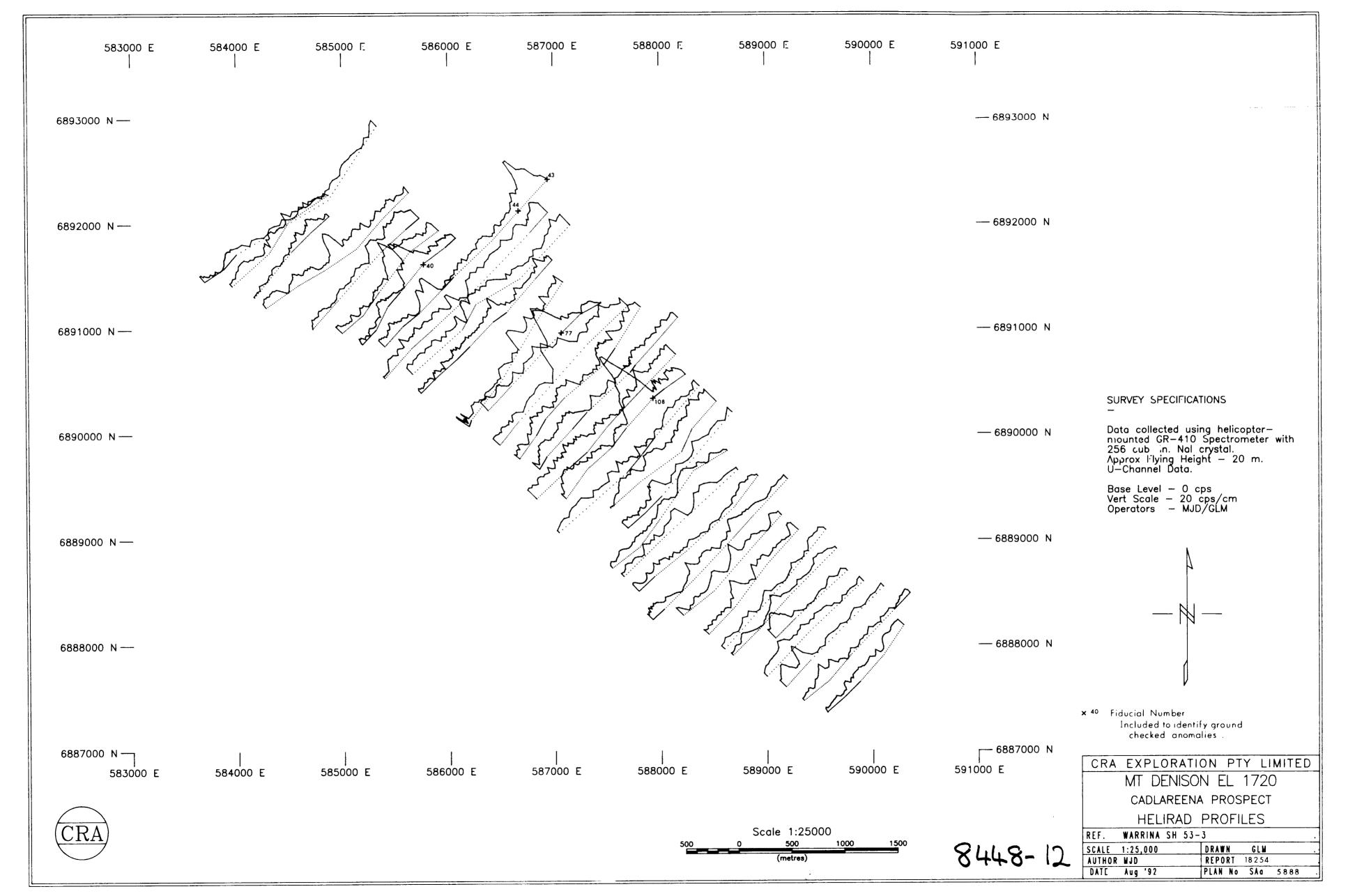


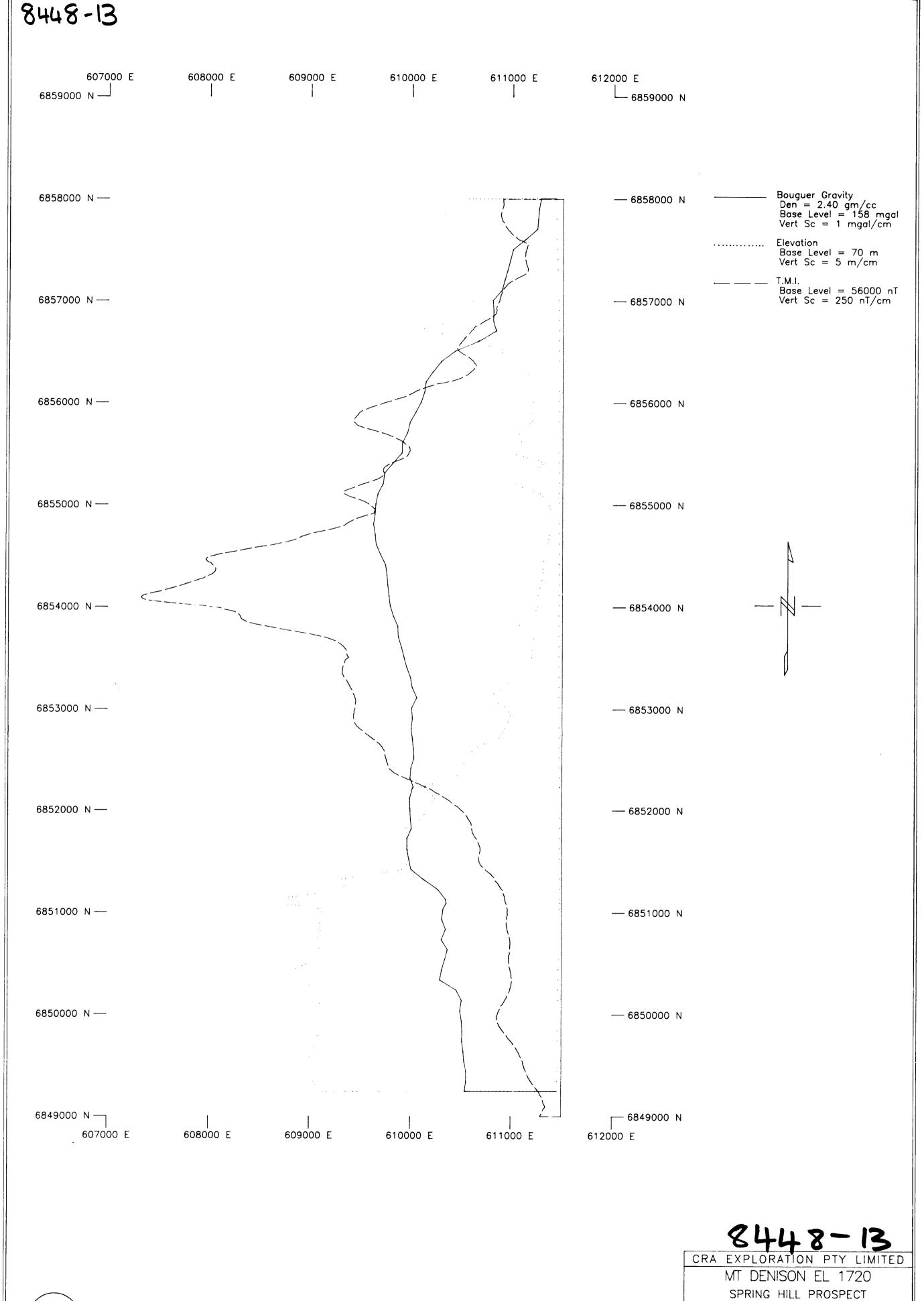


SURVEY SPECIFICATIONS Station Locations (X,Y,Z) measured using kinematic GPS surveying methods. Accuracy — +/— 0.015 metres Gravity readings completed by CRAE staff. Instrument — LaCoste & Romberg # 649 620000m E 622000m E 608000m E 610000m E 612000m E 614000m E 616000m E 618000m E 6860000m N 6860000m N 6858000m N 6858000m N 6856000m N 6856000m N 6854000m N 6854000m N SCALE 1:50000 3000 4000 1000 2000 meters 6852000m N 6852000m N CRA EXPLORATION PTY LIMITED SPRING HILL PROSPECT **GRAVITY SURVEY, 1992** BOUGUER GRAVITY CONTOURS (Density = 2.40 gm/cc) 6850000m N 6850000m N 622000m E 610000m E 612000m E 614000m E 616000m E 618000m E 620000m E 608000m E REF. WARRINA SH 53-03 SCALE 1:50000 AUTHOR: M.J.D. **REPORT**: 18254 DATE: 8/7/92 PLAN NO.: SAa 5837

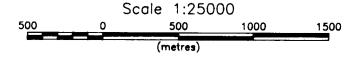








CRA



8448-13

LINE 611400 mE — Mag/Grav

REF. WARRINA SH 53-3

SCALE 1:25,000 DRAWN GLW

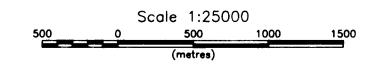
AUTHOR NJD REPORT 18254

DATE Aug '92 PLAN No SAa 5892

610000 E 607000 E 609000 E 608000 E 605000 E 606000 E Bouguer Gravity Den = 2.40 gm/cc Base Level = 160 mgal Vert Sc = 1 mgal/cm 6848000 N └─ 6848000 N Elevation Base Level = 130 m Vert Sc = 5 m/cmT.M.I. Base Level = 56000 nT Vert Sc = 250 nT/cm 6847000 N — -- 6847000 N Gravity station spacing = 100m. Magnetic station spacing = 10 m. 6846000 N ----- 6846000 N -- 6845000 N 6845000 N — 6844000 N ----- 6844000 N 6843000 N — - 6843000 N 6842000 N ---- 6842000 N 6841000 N ----- 6841000 N 6840000 N ----- 6840000 N 6839000 N ---- 6839000 N 607000 E 608000 E 605000 E 606000 E 609000 E 610000 E



8448-14



8448 14

8448-14 CRA EXPLORATION PTY LIMITED

MT DENISON EL 1720

SPRING HILL PROSPECT

LINE 609000 mE - Mag/Grav

 REF. WARRINA SH 53-3

 SCALE 1:25,000
 DRAWN GLM

 AUTHOR MJD
 REPORT 18254

 DATE Aug '92
 PLAN No SAa 5893

APPENDIX I

ROCK SAMPLE LEDGERS & ASSAYS

Note: Assays below detection limit are quoted as half the detection limit.

Element	Analytical Method	Detection Limit (ppm)
Au	Fire Assay Fusion/AAS	0.005
As	Hydride Generation/AAS	1
Pb	AAS	5
Ag	AAS	0.5
U	XRF	3
Cu	ICP-OES	5
Zn	ICP-OES	5
Co	ICP-OES	5
Cr	ICP-OES	10
Ni	ICP-OES	10
Fe	ICP-OES	100
Mn	ICP-OES	15
La	ICP-OES	5
Ce	ICP-OES	15
Th	ICP-OES	10
K	ICP-OES	500

37897 DPO:

Sampled by: MJD Date: 21/2/92

Project: Peake + Denison

Sampno	AMG East	AMG North	Prospect/ . Area	Rock Description
2544543	587925	6890350	Cadlareena	BASIC VOLCANIC
			Volcanics	Grab sample of purple-brown basic rock with
				hematite-quartz veining. Approx 25m from quartzite contact
				and Uranerz's Trench 2. 500 cps. Vicinity of Fid 108:
2544544	587925	6890325	Cadlareena	BASIC VOLCANIC
			Volcanics	Grab sample of purple-brown, massive, basic volcanic.
				No veining. Located 60m above quartzite contact.
	· · · · · · · · · · · · · · · · · · ·			600 cps. '
2544545	612800	6855800	Spring	QUARTZ BRECCIA
			Hill	arab sample of quartz with minor hematite breccia.
				some plagioclase, amphibole and epidote. Hematite content
				is high graded in sample: usually <5% occurring as
		<u> </u>		clasts sem-50 cm.
2544546	612800	6855800	Spring	QUARTZ BRECCIA
			H:11	Grab sample 5m East of 2599595. Less Lematities
				and more quartz than sample above. Isolated high cos
				of 900 cps.
2544547	587050	690	Cadlarcena	BASIC VOLCANIC
	585650	6891600	Volcanics	Subcrop grab sample of weathered purple-brown
				basic volcanic altered to epidote and chlorite. Spot
				high of 500 cps. Vicinity of Fids 7 32 and 40.
		<u> </u>		
<u> </u>				<u></u>
	l .	· I	I	

37897 DPO;

Sampled by: MJD Date: 26/2/92

Project: Peake + Denison

		•	~0/~/ <i>1</i> &	
Sampno	AMG East	AMG North	Prospect/,	Rock Description
2594-598	582850	6897850	Peake	GRANITE
			Creek	Grab sample of plagioclase (dominant) - quartz - biotite -
				muscovite granite with accessory tourmaline and a bright green mineral immediately under the weathering skin (not
				I green mineral immediately under the weathering skin (not
				torbernite). Outerop is 1600 cps. Sampled as more
				anomalous zone. 0.08 x 10-3 SI. Vicinity of Fid 77.
				In general area find plag. granite, K-feld granite.
				Qtz-feld gneiss, amphibolite and migmatite.
	,			Plag granite generally 300-600 cps
				Other rock types <300 cps.
				Highly anomalous cps has very limited areal extent -
				<25m mdius.
2544549	592700	6888100	Coppertop	BASALT
				2m composite rockchip sample @ 9500 = 9595N of
				dark green, fine grained basalt with trace calcite veins
	,			dark green, fine grained basalt with trace calcite veins (<3mm thick). 38-70 × 10-3 SI.
2544550	592800	6887900	Coppertop	BASALT
				2m composite rockship sample @ 9500 = 9240N of
		<u> </u>		brown weathered, dark green, fine grained basalt.
<u> </u>				30 x 10-3 SI.
<u> 2599551</u>	593000	6887500	Coppertop	BASALT
	•	<u> </u>		Grab sample of fine grained Abasalt with 51 9/2 veins
		<u> </u>		(topes actually 2% in outcrop). 30 30 x 10-3 SI
				" 9500 € 8520 N Located 10m 'below' minor old
		İ	1	workings.

DPO: 37897 Project: Peake + Denison

Sampled by: MJD Date: 27/2/92

Sampno	AMG East	AMG North	Prospect/ Area	Rock Description
2544-552.	5923000	6887400	Coppertop	QUARTZITE
20	372000	0807700	Spps op	In mobiling and to of foliated and the Mills II
· · · · · · · · · · · · · · · · · · ·				Im rockship sample of foliated quartzite with epidote alteration. 0.1 x 10-3 SI.
	<u> </u>			WHET-QUIDA. 0.1 X 70 - SE.
2594553	593050	6887050	Coppertop	BASALT
<u> </u>				Grab sample of fine grained basalt with 5% quartz veins
<u></u>				(actually 2% in outerop). 30-100 × 10-3 SI. Lower
				basatt unit. 9500 € 8520 N.
2544554	593150	6888500	Coppertop	PHYLLITE
				Im rockehip sample of light grey quartz-mica phyllite.
	<u> </u>			Common along traverse. Sampled to test for elevated Cu values
				0.2 × 10-3 SI. 9590 N 10000 E
2544555	593250	6888200	Coppertop	QUARTZ VEINED BASALT
				Grab sample of unmineralised quartz reined (40 % in
				sample less in outerop) baselt @ 10000 = 9185N
				sample less in outrop) basalt @ 10000 = 9185 N basalt = 70 × 10-3 st
				veins = 10 × 10-3 5.7
2594567	593350	6888000	Coppertop	BASALT
				Grab sample of basalt @ 10000 = 9000 N with some
				epidote alteration and trace malachite.
				The state of the s
2544568	593600	6887400	Copportop	BASALT
			77 7	5m composite rockchip sample of basalt interbed within
			. ,_	the phyllities. Outcrop is 50m along strike for 3-4 small
				the phyllites. Outcop is som along strike from 3-4 small pits. 10000 € 9460N
				-3m gap between 2579568 + 2579569.

37897 DPO:

Sampled by: M5D Date: 27/2/92

1:250 000 Sheet: Warrina

Project: Peake + Denison

Sampno	AMG East	AMG North	Prospect/, Area	Rock Description
2594569	593600	68874-00	Coppertop	BRSALT
				4m composite rockchip sample below 2549568. Minor
<u> </u>	,			Am composite rockchip sample below 2549568. Minor malachite observed in outerop within basalt.
· · · · · · · · · · · · · · · · · · ·				10000 F 9950 N
2599570	593700	6887050	Coppertop	BASALT
				Crab sample of quartz and carbonate veined basalt (veining <5%).
				(veining <5%).
	,			
			<u> </u>	
				e to establish to the second of the second o
				taginan ang ang ang ang ang ang ang ang ang
				<u> </u>
		 		
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		-		
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Sampled by: MJD Date: 19/3/92

DPO: 37780 Project: Peake + Denison

Sampno	AMG East	AMG North	Prospect/	Rock Description
Gampho	AIVIG Last	AMG NOTH	Area	
544-590	576080	6914-180	Algebuckina	QUARTZITE
			(Vicinity of	2.5m composite rockchip sample of quartzite registering 500-550 cps on Bas-4 scintillometer.
	,	,	Fid 93 from	500-550 cps on Bas-4 scintillometer.
			helirad)	somple taken from a 12m wide outerop of strongly
				foliated quartite with accessory muscovite trending ossom
				and dipping subvertically. Outcrop measures 250 - 550 cps on
				Bas-4 and has an outcropping strike length of 200m.
*				
	,			
· · · · ·	-			
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	1	 		
				
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		<u> </u>	<u> </u>	
	1.	1		

SAMPNO	Au PPM	As PPM	Рь РРМ	Ag PPM	U PPM	Cu PPM	Zn PPM	Co PPM	Cr PPM	Ni PPM	Fe%	Mn PPM	La PPM	Ce PPM	Th PPM	K PP M
2544543	0.0025	5	240	0.25	40	12	19	2.5	100	14	22.2	507	53	25	5	55 00 0
2544544	0.005	4	60	0.25	55	11	37	43	147	54	12.5	9620	63	23	5	68 70 0
2544545	0.0025	3	30	0.25	1.5	5	39	5	47	32	11.3	431	30	5.4	16	1 05 0
2544546	0.0025	3	20	0.25	15	2.5	16	2.5	34	28	10.4	342	71	134	40	5120
2544547	0.0025	4	20	0.25	35	10	65	44	171	99	9.41	1630	24	7.5	5	16 30 0
2544548	0.0025	2	40	0.25	130	2.5	29	9	24	13	1.77	341	38	76	46	46 30 0
2544549	0.0025	2	10	0.25	4	229	75	42	78	90	9.31	860	23	41	16	11200
2544550	0.0025	3	20	0.25	1.5	271	160	37	63	40	11	1440	35	69	17	12300
2544551	0.0025	2	25	0.25	1.5	198	181	35	81	54	11.9	2140	34	69	18	3420
2544552	0.0025	2	15	0.25	1.5	6	22	9	44	19	3.25	351	31	59	17	26 30 0
2544553	0.0025	2	10	0.25	11	8	49	34	56	50	11.5	559	24	48	13	18 00 0
2544554	0.0025	2	5	0.25		2.5	62	20	68	36	5.21	508	19	48	16	39 90 0
2544555	0.0025	2	10	0.25	1.5	25	76	29	65	37	8.73	748	22	50	5	19 60 0
2544567	0.006	3	20	0.25	4	214	157	41	61	42	11.2	2080	40	78	18	4 60 0
2544568	0.0025	2	15	0.25	1.5	71	148	48	116	95	8.92	1470	19	32	14	6770
2544569	0.0025	2	15	0.25	1.5	170	136	46	115	111	8.56	1590	20	31	12	3 08 0
2544570	0.0025	2	1 5	0.25	1.5	429	98	35	79	42	10.2	1350	24	45	14	8520
2544590	0.0025	1	10	0.25	11	10	10	•	•	•	1.1	120	88	151	126	14400

CRA EXPLORATION PTY. LIMITED

FINAL REPORT FOR MOUNT DENISON EL 1720 SOUTH AUSTRALIA

AUTHOR:

M.J. DONNELLY AND A.R. HUGHES

COPIES TO:

SADME

CIS CANBERRA

DATE:

APRIL, 1993

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ACCEPTED BY:

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LIST OF PLANS

Plan No. <u>Title</u> <u>Scale</u>

SAa 6070 Mount Denison EL 1720, SA, Location and Summary Plan 1:250 000 SAa 6127 Mount Denison EL 1720, SA, Skillogalee Traverse Lines 1: 10 000

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Appendix I Rock Geochemistry Ledgers and Assays

Appendix II Spring Hill Gravity Survey Data

Appendix III Skillogalee Dolomite Soil Geochemistry Assays

1. <u>SUMMARY</u>

Exploration Licence 1720, Mt Denison, was located in the Peake and Denison Ranges between William Creek and Oodnadatta. The licence was granted on 13th May, 1991 and surrendered in March, 1993 following an unsuccessful exploration programme for base metal, uranium or diamond deposits.

Investigations included:

A review of previous work.

Reprocessing of existing airborne geophysical surveys.

Flying of an airborne magnetic and radiometric survey over the Denison Inlier.

Follow up of radiometric anomalies with helicopter-borne radiometric surveying.

Gravity surveys in the vicinity of Spring Hill and Tarlton Springs.

Geochemical sampling of base metal and uranium targets.

Ground magnetometry of two target areas; Tarlton Springs and Skillogalee Dolomite.

2. CONCLUSIONS

On the basis of investigations completed it was concluded that:

Uranium channel radiometric anomalies near the base of the Cadlareena Volcanics are the result of elevated background U content in basic volcanics of 35-55 ppm. The highest amplitude anomaly coincides with a restricted outcrop of calcrete.

Four dipolar magnetic anomalies defined by the airborne survey were found to have non kimberlitic sources.

Rock sampling and mapping in the Coppertop Hills area found anomalous Cu geochemistry to be the result of minor veining and elevated background levels in basalt.

The gravity high at Spring Hill is interpreted as a shallow basement block and is not the result of considerable mass excess associated with economic mineralisation.

Soil geochemistry and ground magnetometry over a stratabound negative magnetic feature in the Skillogalee Dolomite failed to indicate the presence of a significant target.

3. INTRODUCTION

Exploration Licence 1720, Mt Denison, was granted to CRA Exploration Pty Ltd over an area of approximately 2298 square kilometres on 13th May, 1991. This tenement formed part of a larger area of investigation by the company over the Peake and Denison Inlier during the period of its currency until surrender in March, 1993.

Most results of investigations within EL 1720 have been previously reported in the first, second, third and combined fourth and fifth quarterly reports which are extensively used as reference for this final report.

4. INVESTIGATIONS

The locations of all investigations are summarised on plan SAa 6070.

4.1 Airborne Geophysical Surveying

Data from airborne magnetic and radiometric surveys flown for Ashton Mining Ltd in 1981 (EL 787 and EL 968), BHP Minerals Limited in 1983 (EL 1133) and CRAE in 1980 (EL 761) were acquired and collated.

To complete digital coverage over EL 1720, an airborne magnetic/radiometric survey was flown over an 880 square kilometre area. This area covers the Denison Inlier plus surrounding Cainozoic and Mesozoic sediments. The survey specifications were as follows:

Flown by Line spacing: 300m

: Kevron

Line direction: N-S

Flying height: 80m AGL

Instruments

: Cesium vapour magnetometer

Spectrometer - 256 channel, 33 litre crystal volume

Results of the survey may be found in Donnelly 1992a.

4.2 Radiometric Surveying and Follow up

Detailed radiometric data are presented in Donnelly, 1992b.

Radiometric anomalies detected by the 1991 survey were followed up using a helicopterborne spectrometer and ground investigation. Helicopter surveys were flown over the Cadlareena and Peake Creek areas as these areas contain anomalies identified from the 1991 survey and the Sandy Creek Springs anomaly was followed up. The Algebuckina inlier, not covered by the 1991 survey, was also surveyed. The locations of these four areas are shown on plan SAa 6070.

Radiometric responses were measured with a GR-410 spectrometer with a 256 cubic inch NaI crystal. Approximate flying height was 20m and line spacing 200m. Only U-channel data were collected.

4.2.1 Cadlareena

Most anomalies occur over basic lithologies of the Cadlareena Volcanics, rock samples of which assayed up to 55 ppm U.

4.2.2 Peake Creek

A granite rock from the most anomalous area assayed 130 ppm U and 46 ppm Th.

4.2.3 Algebuckina

Helicopter radiometrics over the Algebuckina Inlier identified only low order anomalies. A rock sample from the most anomalous area assayed 11 ppm U and 126 ppm Th.

4.2.4 Sandy Creek Springs

Ground checking of the anomaly revealed an approximate area of 80 m x 100 m registering greater than 300 cps on a BGS-4 scintillometer, to a maximum of 700 cps. The anomalous radioactivity occurs over calcrete. This calcrete lies within 200 m of Wirriecurrie Granite (160-220 cps).

The anomaly-has been previously investigated in 1981 by Gem Exploration in joint venture with other companies (EL 491, SADME Env 3562). Rock samples assayed up to 75 ppm U and 15 ppm Th.

It is concluded the U has been concentrated in the surficial calcrete, sourced from the adjacent granite.

4.3 Dipolar Magnetic Follow up

Field checking of 4 dipolar magnetic anomalies evident in the results of the airborne survey revealed all to have non-kimberlitic magnetic sources as tabulated in Donnelly, 1992b. The locations of the anomalies are shown on plan SAa 6070.

4.4 Coppertop Hill Cu Anomaly

Previous geochemical sampling identified an area of anomalous Cu geochemistry 1.5 km west of Coppertop Hill and 2 km north of Mt Denison. Stream sediment sampling by North Broken Hill defined a 1.5 square kilometre area with anomalous values of 50-120 ppm Cu (SADME Env. 941). Traverse number 21 of Western Mining Corporation's stratigraphic soil sampling in the Peake and Denison Ranges crossed the same area and returned elevated values of>100 ppm Cu over a 700 m interval (SADME Env. 2525).

Investigation of this area during the fourth quarter of EL 1720 consisted of two traverses, spaced 500 m apart, along which a total of eleven rock samples were collected. Sample details are included in Donnelly, 1992b.

Rock types consist of basalt, quartzite, phyllite and quartz-mica schist of the Peake Metamorphics. The only mineralisation observed was malachite plus trace azurite and chalcopyrite in quartz-carbonate veins within basalt and within the basalt itself. The rock sampling showed the basalt to contain elevated levels of Cu, typically 150-450 ppm.

The stream sediment and soil anomalies are attributed to the elevated levels of Cu in basalt and the Cu in quartz and carbonate veining.

4.5 Spring Hill Gravity Survey

A gravity survey on 500 m centres was conducted over a 10 km x 15 km area in the vicinity of Spring Hill (plan SAa 6070). The western half of the survey was within EL 1720 and the eastern half within CRAE's Mt Charles EL 1756. The survey aimed to identify a Roxby-style target below Cretaceous and Jurassic sediments. Regional geophysical data and show the area to possess anomalous magnetic character a gravity high. The presence of Peake Metamorphic inliers and a relatively shallow depth to basement of 78 m in Chevron drill hole LHDH14 (SADME Env. 2182) indicates a proximity to basement for the prospect area. Sample ledgers and assays for two rock samples collected are included in Appendix I.

The results for the gravity survey are presented in Appendix II. A ground magnetic (10 m station spacing) and gravity (100 m station spacing) traverse was also made through the prospect.

The survey defined a roughly triangular shaped, 2-3 mgal high covering approximately 50 square kilometres. Along the northwest margin of this block there is a northeast trending, 3 mgal, 2.5 km wide gravity high. The most intense high on this feature is coincident with the Spring Hill inlier composed of quartzite breccia and lesser dolerite and basalt.

The overall gravity high is interpreted as a shallow basement block.

4.6 <u>Tarlton Springs Magnetic-Gravity Traverse</u>

During the course of the Spring Hill gravity survey, a magnetic-gravity traverse was made across a regional aeromagnetic feature to the east of Tarlton Springs. As for Spring Hill, the target was a concealed Roxby-style body. The results are also included in Donnelly, 1992b.

A 5-6 mgal high is evident over a length of approximately 4 km. The variations in magnetics over the feature indicate a deep source.

4.7 Skillogalee Magnetic Feature

Review of regional aeromagnetic data reveals a magnetic feature lying along the mapped contact between the lower and middle members of the Skillogalee Dolomite (Ambrose et al, 1981). The location of the aeromagnetic feature is shown on plan SAa 6070 and continues to the west, outside EL 1720.

Ground magnetometry and soil geochemistry traverses were conducted across this feature on EL 1720 and the adjacent EL 1535. The locations of the two traverses on EL 1720, the ground magnetic profiles and soil sample locations are shown on plan SAa 6127. Soil sample assays are presented as Appendix III.

The magnetic feature is interpreted as an edge effect between rocks of slightly different magnetic susceptibilities. The 20-40 nT low and the less pronounced high is consistent with the northerly dip of the sediments. This feature occurs over a sequence of quartz, sandstone, quartzite and siltstone.

No significant base metal, Au or Ag anomalism appears to be associated with the Skillogalee magnetic feature.

4.8 Mt Fox Cu Anomaly

During follow up of a drainage geochemistry anomaly on the adjacent EL 1535 Edwards Creek, two rock samples and one stream sediment sample were taken from within El 1720.

Sample locations are shown on plan SAa 6070. Rock sample ledgers and assays are given in Appendix I. The -80# stream sediment sample assayed 1 ppb Au, 4 ppm As, 20 ppm Pb, <2 ppm Ag, 38 ppm Cu, 53 ppm Zn, 8 ppm Co, 33 ppm Cr, 13 ppm Ni, 2.69% Fe, 428 ppm Mn, 24 ppm La, 34 ppm Ce, <10 ppm Th, <10 ppm Nb and 518 ppm P.

A.R.HUGHES

ARH/mag

EXPENDITURE

Expenditure on EL 1720 for the five month period from 1st November, 1992 to 31st of March, 1993 amounted to \$4,979, as detailed below.

	\$
Contractors	585
Laboratory	-532
Payroll & Benefits	2,257
Field & Transport	565
Office & Miscellaneous	44
District Administration	1,288
Regional Indirect Costs	773
Total	\$4,979

Aggregate Expenditure for the tenure period amounted to \$200,836.

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1981

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CRAE Report 17469

Donnelly, M.J. 1991b

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CRAE Report 17648

Donnelly, M.J. 1992a

Third Quarterly Report for Mount Denison EL 1720, South Aust-

ralia, For The Period Ending 12th February, 1992. CRAE Report 17867

CRAE Report 17

Donnelly, M.J. 1992b

Combined Fourth and Fifth Quarterly Report for Mount Denison EL 1720, South Australia, For The Period Ending 12th August,

1992.

CRAE Report 18254

LOCATION

Oodnadatta

SG53-15

1:250 000 sheet

Warrina

SH53-03

1:250 000 sheet

KEYWORDS

Airborne Survey, Geophysics - mag, Geophysics - rad, Geophysics - grav, Geochem. - rock, Geochem. - soil, Copper, Uranium, Peake and Denison Inlier.

LIST OF DPO's

37897, 54276, 54271

APPENDIX I

ROCK GEOCHEMISTRY - LEDGERS AND ASSAYS

2544545	612800	6855800	Spring	QUARTZ BRECCIA
			' H:11	Grab sample of quartz with minor hematite breccia.
			<u> </u>	some plagioclase amphibole and epidote. Hematite content
			<u> </u>	is high graded in sample; usually <5% occurring as
				clasts scm-50 cm.
2544546	612800	6855800	Spring	QUARTZ BRECCIA
			Hill	Grab sample 5m East of 2599-595. Less hematitic
				and more quartz than sample above. Isolated high cos
			1	of 400 cps.

<u>,ca</u>

SAMPNO	Au	As	Pb	Ag	U	Cu	Zn	Co	Cr	Ni	Fe%	Mn	La	Ce	Th	К
2544545	0.0025	3	3.0	0.25	1.5	5	39	5	47	32	11.3	431	30	54	16	1050
2544546	0.0025	3	20	0.25	15	2.5	16	2.5	34	28	10.4	342	71	134	4.0	5120

Note: Assays are in ppm unless stated otherwise.

Assays below detection limit are quoted as half the detection limiot.

Element	Analytical Technique	Detection Limit
Au	Fire assay fusion/AAS	0.005
As	Hydride generation/AAS	1
Pb	AAS	5
Ag	AAS	0.5
U	XRF	3
Cu	ICP-OES	5
Zn	ICP-OES	5
co	ICP-OES	5
Cr	ICP-OES	10
Ni	ICP-OES	10
Fe	ICP-OES	100
Mn	ICP-OES	1,5
La	ICP-OES	5
Ce	ICP-OES	15
Th	ICP-OES	10
K	ICP-OES	500

1:250 000 Sheet: Warrina SH53-3

DPO: 54271 Sampled by: MJD Project: EL1535/EL1720 Date: 18/9/92

Sampno	AMG East	AMG North	Prospect/ . Area	Rock Description
3332045	603120	6851320	M Fox Cu	BASIC
			Anomaly	Float sample at str. sed. sample site 3334364: Dark green,
	,			dominantly biotite (or phlogopite) phenocrysts of 0.5-4mm size
				in pink-purple tinged matrix also contains chlorite.
				If phlogopite plenocysts, possibly minette (?).
				0 1 31 7 3 3 7 7
332046	603110	6851330	n	BASIC
				Rock grab sample of same sample as 3332045. Outcrops in
	-			creek bed and bank. Appears to be a dyke (from poor
	•			exposure) cutting white siltstone, Estimate minimum thickness
				of 2m.
				soft, weathered, biotite-phlogopite? - clay rock.

SAMPLE	Au	As	Cu	Pb	Zn	Ag	Fe%	Mn	Co	Cr	Ni	Ba	La	Ce	Mg%	Nb	K%	Na%
3332045	0.007	1	73	6	50	1	5.76	613	20	44	36	1590	55	95	3.13	5	4.98	2.8
3332046	0.0025	5	127	7	60	. 1	5.16	634	22	34	25	2290	40	74	1.91	5	7.22	1.7

Note: Assays are in ppm unless stated otherwise.

Assays below detection limit are quoted as half the detection limit.

Element	Analytical Technique	Detection Limit
Au	Fire assay fusion / AAS	0.005
As	Hydride generation/AAS	1
Cu	AAS	4
Pb	AAS	.5
Zn	AAS	4
Ag	AAS	2
Fe	AAS	10
Mn	AAS	5
Co	AAS	5
Cr	AAS	15
Ni	AAS	5
Ba	ICP-OES	5
La	ICP-OES	5
Ce	ICP-OES	15
Mg	ICP-OES	20
Nb	ICP-OES	10
K	ICP-OES	0.05%
Na	ICP-OES	50

APPENDIX II SPRING HILL GRAVITY SURVEY DATA

NOTE: Gravity data are not tied into SADME gravity stations.

AM Spring Hill Gravity Survey, 1992

GRAVITY READINGS WERE CORRECTED FOR EARTH TIDE GRAVITY READINGS WERE CORRECTED FOR METER DRIFT GRAVITY READINGS WERE CORRECTED FOR LATITUDE USING ISOGAL84 FREE AIR CORRECTION WAS APPLIED USING 2gh/R BOUGER CORRECTION WAS APPLIED USING DENSITY OF 2.4grams/cc AR FREE; 0.3086 AR ZONE; 53. AR GMT; 9.5 AR BASE STATION; A: 617230.4 6851555.7 979350. # 6000 AR BASE STATION; B: 613037.8 6859444.4 979343.44 AR BASE STATION; C: 612534.7 6854963.8 979354.65 AR BASE STATION; D: 615439.2 6851013.9 979346.04 井6219 AR METER; : 1.0155 YP LINE AR BASE ID; STATION; RAW GRAVITY; ELEVATION; EASTING; NORTHING; HOUR; MINUTE; DAY AR MONTH; YEAR; DRIFT CORRECTED GRAVITY; BOUGER CORRECTED GRAVITY MT (A1,1X,F9.4,1X,F8.3,1X,F7.3,1X,F8.1,1X,F9.1,5(1X,I2.2),2(1X,F10.3)) 9202 6000 3041.090 88.310 617230.4 6851555.7 12:27 26.04.92 979350.000 9202 6001 3034.640 83.530 613037.8 6859444.4 13:03 26.04.92 979343.440 9202 6000 3041.130 88.310 617230.4 6851555.7 14:06 26.04.92 979350.000 9202 6000 3041.130 88.310 617230.4 6851555.7 14:06 26.04.92 979350.000 9202 6000 3041.150 88.310 617230.4 6851555.7 14:52 26.04.92 979350.000 9202 6000 3041.150 88.310 617230.4 6851555.7 14:52 26.04.92 979350.000 9202 6000 3041.150 88.310 617230.4 6851555.7 14:52 26.04.92 979349.954 9202 6001 3034.750 83.530 613037.8 6859444.4 15:31 26.04.92 979343.440 9202 6001 3034.750 83.530 613037.8 6859444.4 15:31 26.04.92 979343.440 9202 6002 3037.220 71.660 612464.0 6859481.4 15:47 26.04.92 979343.440 9202 6003 3034.420 77.900 611983.9 6859481.4 15:47 26.04.92 979343.135 9202 6004 3035.320 76.360 611490.4 6859518.6 16:04 26.04.92 979344.058 9202 6005 3032.750 89.790 610961.6 6859454.9 16:11 26.04.92 979341.458 9202 6006 3034.730 83.050 610486.5 6859513.4 16:18 26.04.92 979343.478 9202 6007 3036.100 78.800 609981.8 6859531.2 16:24 26.04.92 979343.478 162.976 160.827 160.923 159.410 160.004 160.132 160.796 9202 6008 3035.030 82.020 609981.8 6859513.4 [16:18] 26.04.92] 979343.478 9202 6008 3035.030 82.020 609985.8 6859490.6 [16:32] 26.04.92] 979343.796 9202 6009 3034.640 84.100 608998.3 6859506.1 [16:39] 26.04.92] 979343.409 9202 6010 3033.750 87.080 608547.8 6859488.8 [16:46] 26.04.92] 979341.409 9202 6011 3033.210 89.480 608080.7 6859481.7 [17:06] 26.04.92] 979341.987 9202 6012 3031.860 93.470 607496.5 6859481.7 [17:12] 26.04.92] 979340.620 9202 6013 3030.890 95.630 607029.5 6859518.7 [17:12] 26.04.92] 979343.440 9202 6013 3034.600 83.530 613037.8 6859444.4 [17:46] 26.04.92] 979343.440 9202 6001 3034.600 83.530 613037.8 6859444.4 [17:46] 26.04.92] 979343.440 9202 6014 3033.780 76.400 613580.1 6859542.3 [18:27] 27.04.92] 979342.811 9202 6015 3033.430 70.530 614500.9 6859451.8 [18:34] 27.04.92] 979342.447 9202 6016 3033.430 70.530 614500.9 6859451.8 [18:34] 27.04.92] 979342.447 9202 6018 3032.800 68.930 615048.2 6859551.5 [18:34] 27.04.92] 979341.883 9202 6019 3032.850 63.880 616010.1 6859487.8 [19:38] 99.03 27.04.92] 979341.881 9202 6022 3031.740 59.150 617511.9 [6859461.6] [19:23] 27.04.92] 979341.811 9202 6022 3031.340 70.530 614500.9 6859475.4 [19:38] 99.03 27.04.92] 979341.821 9202 6022 3031.530 61.740 616554.6 [6859551.5] [19:38] 99.03 27.04.92] 979341.810 9002 6002 3032.300 61.740 616554.6 [6859562.2] [19:38] 99.03 27.04.92] 979341.810 9002 6002 3031.340 70.500 618418.4 [6859467.6] [19:23] 27.04.92] 979340.703 9202 6022 3031.740 59.150 617511.9 [6859467.6] [19:23] 27.04.92] 979340.703 9202 6023 3031.470 56.310 618034.9 [6859530.1] [19:29] 27.04.92] 979340.427 9202 6024 3032.000 50.590 618418.4 [6859467.8] [10:12] 27.04.92] 979340.946 9202 6025 3033.510 45.210 619420.4 [6859467.8] [10:12] 27.04.92] 979342.575 9202 6024 3033.550 45.010 61999.9 [6859478.8] [10:12] 27.04.92] 979342.575 9202 6024 3033.530 45.010 61999.9 [6859478.8] [10:12] 27.04.92] 979342.575 9202 6024 3033.540 44.020 6205502.2 [6859560.2] [10:40 7.04.92] 979342.575 9202 6028 3033.400 44.020 6205502.2 [6859560.2] [10:40 7.04.92] 979342.575 9202 9202,6007,3036.100,78.800,609981.8,6859531.2,16:24,26.04.92,979344.873 161.322 160.879 160.930 160.636 160.598 160.032 159.540 158.795 157.764 157,178 156.315 155.763 155.216 154.268 153.442 153.092 152.279 151.561 151.960 151.996 9202.6027 3033.550 45.010 619999.9 6859478.8 10:50 27.04.92 979342.507 152.002 9202.6028 3033.400 44.020 620502.2 6859560.2 11:04 27.04.92 979342.507 9202.6029 3033.320 43.440 620955.0 6859528.7 11:14 27.04.92 979342.268 9202.6030 3032.860 44.250 621493.0 6859526.7 11:30 27.04.92 979341.798 9202.6031 3032.830 45.200 621976.5 6859538.6 11:35 27.04.92 979341.767 9202.6031 3034.490 83.530 613037.8 6859444.4 12:41 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:43 627.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 3034.500 83.530 613037.8 6859444.4 13:45 27.04.92 979343.440 9202.6031 92.003 92 151.701 151.479 151.179 151.355 9202.6032 3037.990 69.660 612991.6 6859950.5 13:59 27.04.92 979346.975 9202.6033 3037.400 67.840 612536.8 6860002.7 14:08 27.04.92 979346.373 9202.6034 3036.240 70.190 612047.1 6859946.4 14:17 27.04.92 979345.191 9202.6035 3032.240 84.380 611516.9 6860009.2 14:25 27.04.92 979341.125 161.840 160.894 160.156 159.063 9202.6036 3033.370 79.030 611012.7 6859991.1 14:31 27.04.92 979342.269 9202.6037 3036.330 76.210 610555.8 6859929.6 14:40 27.04.92 979345.270 9202.6038 3035.270 80.210 609988.9 686019.5 14:47 27.04.92 979344.189 9202.6038 3034.690 82.510 609520.0 6859938.3 14:53 27.04.92 979343.598 159.085 161.459 161.262 161.088 9202.6040 3033.260 87.090 609006.6 6859965.1 14:59 27.04.92 979342.140 9202.6041 3031.890 91.230 608528.7 6860050.6 15:04 27.04.92 979340.747 9202.6042 3029.690 101.530 608028.8 6860031.5 15:11 27.04.92 979338.507 9202.6043 3030.630 95.650 607542.8 6859995.4 15:17 27.04.92 979339.459 160.593 160.110 159.983 159.692 hom BRANKY GRANKY ELEN East North Bass BAJE STN RAW

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9202.6044 3027.310 108.510 607043.6 6860058.6 15:28 27.04.92 979336.078
9202.6001 3034.600 83.530 613037.8 6859444.4 16:15 27.04.92 979343.440
9202.6001 3034.450 83.530 613037.8 6859444.4 07:29 28.04.92 979343.440
9202.6045 3033.710 77.310 613526.0 6859967.1 07:39 28.04.92 979342.685
                                                                                159,146
9202.6046 3033.140 -74:240 613990.8 6860010.6 07:47 28.04.92 979342.104 9202.6047 3032.600 71.840 614549.8 6860005.1 07:55 28.04.92 979341.553
                                                                                157.963
                                                                                156.916
9202.6048 3031.760 69.500 615027.9 6859993.3 08:01 28.04.92 979340.699
                                                                                155.573
9202.6049 3032.470 67.110 615509.6 6860036.3 08:10 28.04.92 979341.417
                                                                                155.830
9202.6050 3032.500 65.190 616034.9 6860007.8 08:16 28.04.92 979341.447
                                                                                155.447
9202.6051 3032.120 63.410 616517.1 6860011.1 08:25 28.04.92 979341.060
                                                                                154.697
9202.6052 3031.170 61.400 616994.3 6860013.1 08:31 28.04.92 979340.094 9202.6053 3031.160 58.890 617527.3 6859986.4 08:37 28.04.92 979340.083 9202.6053 3032.990 50.240 617998.6 6859962.4 08:44 28.04.92 979341.941
                                                                                153,320
                                                                                152.776
                                                                                152.833
9202.6055 3032.770 48.940 618543.1 6859969.9 08:59 28.04.92 979341.717
                                                                                152.349
9202.6056 3033.130 45.690 618999.3 6859997.7 09:06 28.04.92 979342.082
                                                                                152.065
9202.6057 3033.060 43.800 619464.7 6859962.0 09:13 28.04.92 979342.011
                                                                                151.582
9202.6058 3033.060 43.700 619524.5 6860011.3 09:20 28.04.92 979342.012
                                                                                151.596
9202.6059 3032.660 44.130 619983.4 6859976.4 09:36 28.04.92 979341.608
                                                                                151.260
9202.6060 3032.730 43.640 620470.8 6860003.3 09:48 28.04.92 979341.681
                                                                                151.253
9202.6061 3032.580 43.740 620526.7 6860007.0 09:55 28.04.92 979341.531
                                                                                151.126
9202.6062 3032.550 43.120 621009.9 6859995.3 10:17 28.04.92 979341.506
                                                                                150.969
9202.6063 3032.250 44.120 621480.8 6859960.2 10:27 28.04.92 979341.206
                                                                                150.855
9202.6064 3032.550 44.320 622030.1 6860002.8 10:51 28.04.92 979341.521
                                                                                151.245
9202.6001 3034.420 83.530 613037.8 6859444.4 11:28 28.04.92 979343.440
9202.6001 3034.400 83.530 613037.8 6859444.4 12:14 28.04.92 979343.440
9202.6065 3034.610 81.390 613017.9 6858987.1 12:20 28.04.92 979343.657
                                                                                160.290
9202.6066 3032.870 85.350 612517.0 6858971.0 12:29 28.04.92 979341.897
                                                                                159.334
9202.6067 3034.610 75.920 611987.6 6859010.6 12:36 28.04.92 979343.671
                                                                                159.183
9202.6068 3033.060 83.820 611540.1 6858969.4 12:44 28.04.92 979342.104 9202.6069 3032.220 90.000 611058.1 6858983.1 12:51 28.04.92 979341.259
                                                                                159.218
                                                                                159.656
9202.6070 3032.370 91.810 610480.6 6859000.0 13:01 28.04.92 979341.418
                                                                                160.197
9202.6071 3032.770 91.160 609970.3 6859062.1 13:08 28.04,92 979341.831
                                                                                160.515
9202.6072 3034.020 83.740 609471.2 6858984.8 13:16 28.04.92 979343.108
                                                                                160.202
9202.6073 3032.920 91.400 608966.5 6858990.7 13:23 28.04.92 979341.997 9202.6074 3033.530 89.640 608527.5 6858991.3 13:27 28.04.92 979342.620
                                                                                160 676
                                                                                160.933
9202.6075 3032.640 94.770 608038.9 6858993.0 13:32 28.04.92 979341.720
                                                                                161.091
9202.6076 3031.690 95.300 607520.9 6859003.2 13:38 28.04.92 979340.762
                                                                                160.246
9202.6077 3029.870 103.930 607014.0 6858947.8 13:44 28.04.92 979338.917
                                                                                160.144
9202.6078 3030.270 105.430 607004.1 6858473.0 13:55 28.04.92 979339.333
                                                                                160.546
9202.6079 3031.380 100.170 607515.6 6858525.9 14:16 28.04.92 979340.475
                                                                                160.640
9202.6080 3033.130 94.890 608075.7 6858619.9 14:24 28.04.92 979342.257
                                                                                161.399
9202.6081 3032.760 91.690 608580.5 6858587.2 14:30 28.04.92 979341.887
                                                                                160.348
9202.6082 3033.600 88.230 609030.2 6858524.7 14:42 28.04.92 979342.747
                                                                                160.453
9202.6083 3033.020 89.000 609485.4 6858469.3 14:48 28.04.92 979342.160
                                                                                159.991
9202.6084 3030.840 97.880 609998.8 6858542.3 14:53 28.04.92 979339.949
                                                                                159.668
9202.6085 3030.750 95.710 610560.0 6858455.2 14:59 28.04.92 979339.862
                                                                                159.076
9202.6086 3031.730 88.380 610988.7 6858483.3 15:06 28.04.92 979340.861
                                                                                158.582
9202.6087 3031.660 88.820 611496.4 6858503.1 15:11 28.04.92 979340.792
                                                                               158.621
9202.6088 3031.660 88.810 611999.4 6858510.8 15:15 28.04.92 979340.793
                                                                                158.629
9202.6089 3033.170 83.010 612525.4 6858486.9 15:20 28.04.92 979342.329 9202.6090 3034.190 78.900 612992.6 6858486.2 15:25 28.04.92 979343.366
                                                                               158.952
                                                                               159.143
9202.6001 3034.260 83.530 613037.8 6859444.4 15:32 28.04.92 979343.440
9202.6091 3035.220 75.990 612986.2 6858010.7 15:47 28.04.92 979344.404
                                                                               159.255
9202.6092 3033.940 82.460 612492.2 6858039.9 15:52 28.04.92 979343.101
                                                                               159.306
9202.6093 3033.890 84.360 611979.0 6857937.5 15:57 28.04.92 979343.048
                                                                               159.572
9202.6094 3031.180 92.280 611483.0 6858027.1 16:02 28.04.92 979340.289
                                                                                158.509
9202.6095 3030.670 95.640 611011.2 6857998.7 16:07 28.04.92 979339.768
                                                                               158.660
9202.6096 3030.150 98.830 610468.2 6857972.9 16:12 28.04.92 979339.237
                                                                               158.767
9202.6097 3029.960 100.810 609992.6 6857988.8 16:16 28.04.92 979339.040
                                                                                158,988
9202.6098 3030.820 98.010 609481.9 6857938.9 16:20 28.04.92 979339.910
                                                                                159.241
9202.6099 3031.900 92.640 608987.7 6858006.6 16:24 28.04.92 979341.003
                                                                               159.268
9202.6100 3031.450 92.980 608518.6 6858025.3 16:30 28.04.92 979340.539
                                                                               158.883
9202.6101 3030.940 101.780 607984.2 6857966.7 16:36 28.04.92 979340.017
                                                                                160.137
9202.6102 3030.130 107.030 607489.2 6858011.1 16:42 28.04.92 979339.187
                                                                                160.419
9202.6103 3028.030 117.570 607036.0 6858020.0 16:51 28.04.92 979337.046
                                                                                160.461
9202.6001 3034.370 83.530 613037.8 6859444.4 17:30 28.04.92 979343.440
9202.6001 3034.280 83.530 613037.8 6859444.4 09:32 29.04.92 979343.440
9202.6104 3034.690 75.520 613471.4 6858481.6 10:03 29.04.92 979343.835
                                                                               158.913
9202.6105 3035.260 72.100 614003.2 6858509.7 10:11 29.04.92 979344.409 9202.6106 3035.800 70.320 614428.7 6858478.8 10:19 29.04.92 979344.954
                                                                               158.803
                                                                               158.961
9202.6107 3035.140 69.250 614922.8 6858472.7 10:26 29.04.92 979344.280
                                                                               158.065
9202.6108 3034.650 65.650 615516.7 6858477.3 10:45 29.04.92 979343.775
                                                                               156.824
9202.6109 3033.360 64.550 615962.5 6858498.5 10:53 29.04.92 979342.463
                                                                               155.301
9202.6110 3032.710 63.380 616496.3 6858442.3 11:04 29.04.92 979341.799
                                                                               154.361
9202.6111 3033.020 59.850 616978.2 6858510.4 11:11 29.04.92 979342.112
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9202.6112 3032.760 58.100 617460.2 6858584.3 11:19 29.04.92 979341.846
                                                                                        153.420
9202.6113 3033.420 53.140 617955.0 6858537.0 11:26 29.04.92 979342.515
                                                                                        153.034
9202.6114 3033.430 50.140 618486.0 6858482.1 11:34 29.04.92 979342.524
                                                                                        152.390
9202.6115 3034.260 46.350 619003.0 6858448.7 11:47 29.04.92 979343.366
                                                                                        152.429
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9202.6118 3034.680 45.940 620414.2 6858569.0 12:59 29.04.92 979343.793
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9202.6119 3034.030 47.570 620959.2 6858533.7 13:07 29.04.92 979343.134 9202.6120 3033.290 50.200 621475.9 6858549.0 13:14 29.04.92 979342.383
                                                                                        152.520
                                                                                        152.327
9202.6121 3032.220 57.050 621945.9 6858428.5 13:23 29.04.92 979341.297
                                                                                        152.578
9202.6001 3034.330 83.530 613037.8 6859444.4 14:28 29.04.92 979343.440
9202.6001 3034.310 83.530 613037.8 6859444.4 15:06 29.04.92 979343.440 9202.6122 3034.370 75.270 613510.1 6859045.0 15:21 29.04.92 979343.513
                                                                                        158.923
9202.6123 3033.750 74.180 613962.3 6858940.1 15:27 29.04.92 979342.891
                                                                                        158.007
9202.6124 3033.390 71.870 614478.7 6858999.9 15:38 29.04.92 979342.535 9202.6125 3033.630 69.510 614993.0 6859011.1 15:45 29.04.92 979342.783
                                                                                        157.219
                                                                                        156.989
9202.6126 3033.290 67.180 615474.8 6858934.4 15:56 29.04.92 979342.447
                                                                                        156.122
9202.6127 3032.670 64.450 616014.8 6858948.9 16:03 29.04.92 979341.823
                                                                                        154.948
9202.6128 3032.290 62.860 616505.0 6858990.0 16:09 29.04.92 979341.440
                                                                                        154.267
9202.6129 3031.970 60.900 616943.1 6858998.0 16:15 29.04.92 979341.120
                                                                                        153.551
9202.6130 3032.080 58.130 617477.1 6858993.8 16:22 29.04.92 979341.236
                                                                                        153.096
9202.6131 3033.340 50.830 617943.0 6859000.4 16:28 29.04.92 979342.518
                                                                                        152.876
9202.6132 3033.450 47.180 618534.9 6859015.2 16:35 29.04.92 979342.634
                                                                                        152.252
9202.6133 3033.540 45.970 618933.1 6859016.5 16:41 29.04.92 979342.728
                                                                                        152.098
9202.6134 3033.630 45.780 619455.9 6858977.1 16:46 29.04.92 979342.823
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9202.6135 3034.020 45.600 619983.2 6858974.1 17:02 29.04.92 979343.225
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9202.6136 3033.890 46.150 620473.7 6858961.4 17:09 29.04.92 979343.094
                                                                                        152.475
9202.6137 3033.330 46.600 620998.6 6858962.5 17:14 29.04.92 979342.528
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9202.6138 3033.360 45.980 621477.8 6858941.6 17:19 29.04.92 979342.560
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9202.6319 3035.540 68.630 621974.4 6854545.4 11:33 14.05.92 979345.455
                                                                                156.482
9202.6318 3036.100 68.190 621996.0 6854977.2 11:38 14.05.92 979346.024
                                                                                157.255
9202.6317 3036.530 68.210 621517.2 6855013.2 11:41 14.05.92 979346.461
                                                                                 157.717
9202.6316 3038.700 61.940 620973.1 6855017.8 11:46 14.05.92 979348.666
                                                                                 158.625
9202.6315 3034.850 69.520 620501.1 6854960.3 11:51 14.05.92 979344.757 9202.6314 3036.730 62.170 620023.0 6855037.6 11:55 14.05.92 979346.667
                                                                                 156.240
                                                                                 156.680
9202.6313 3038.500 55.360 619499.8 6855009.9 12:01 14.05.92 979348.465
                                                                                157.048
9202.6312 3038.510 56.790 619044.5 6855002.6 12:05 14.05.92 979348.476
                                                                                157.347
9202.6311 3039.190 56.000 618509.9 6854989.1 12:09 14.05.92 979349.167 9202.6310 3040.490 52.580 617974.2 6855015.5 12:34 14.05.92 979350.495
                                                                                157.862
                                                                                158.498
9202.6309 3040.720 55.920 617503.3 6855028.5 12:38 14.05.92 979350.730
                                                                                159.428
9202.6308 3041.680 56.350 617043.6 6855013.2 12:42 14.05.92 979351.706
                                                                                160.480
```

9202.6305 3041.530 61.770 615491.7 6855027.2 13:16 14.05.92 979351.566 9202.6219 3044.560 65.510 612534.7 6854963.8 13:31 14.05.92 979354.650 OD ND

APPENDIX III

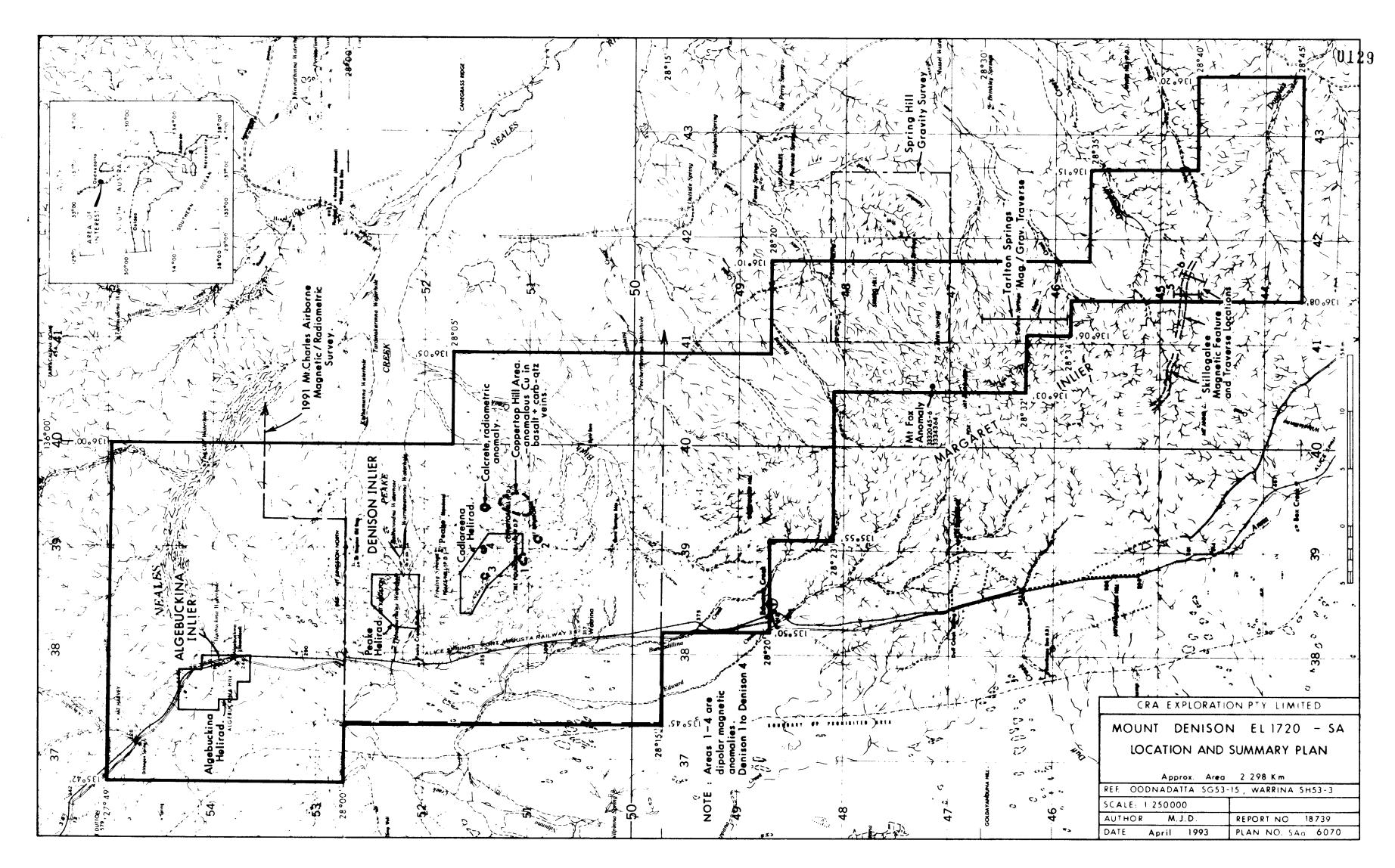
-80# SOIL GEOCHEMISTRY

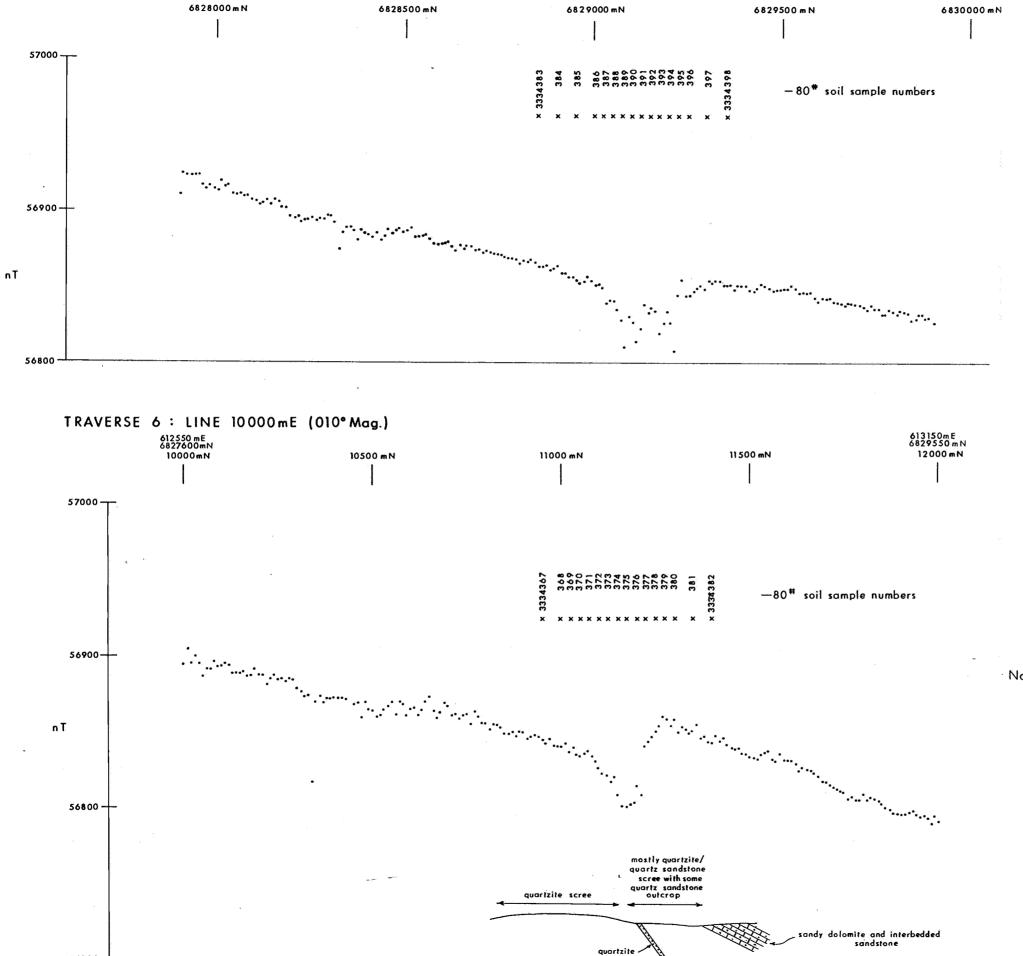
NOTE: Assays below detection limit are quoted as half the detection limit.

Element	Analytical Technique	Detection Limit (ppm)		
Au	Aqua Regia/Carbon Rod	0.001		
As	Hydride generation/AAS	1		
Cu	AAS	$\overline{4}$		
Pb	AAS	5		
Zn	AAS	4		
Ag	AAS	2		
Ag Mn	AAS	5		
Fe	AAS	10		

DPO54273

SAMPLE	EAST	NORTH	Au ppm	As ppm	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Mn PPM	Fe PPM
3334367	612780	6828460	0.003	.9	175	79	142	1	413	33100
3334368	612800	6828500	0.002	6	52	20	70	1	417	28600
3334369	612805	6828530	0.001	3	28	11	36	1	154	9400
3334370	612810	6828550	0.002	2	19	8	25	1	87	5600
3334371	612820	6828575	0.001	1	11	9	11	1	235	3500
3334372	612830	6828595	0.003	2	13	5	19	1	56	5500
3334373	612835	6828620	0.002	5	19	19	42	1	101	13800
3334374	612840	6828645	0.002	2	5	5	12	1	28	4600
3334375	612850	6828670	0.002	2	13	2.5	16	1	24	4200
3334376	612860	6828695	0.001	4	65	8	61	1	335	19700
3334377	612865	6828720	0.0005	4	14	2.5	36	1	300	16600
3334378	612870	6828740	0.001	4	13	6	38	1	263	21400
3334379	612880	6828765	0.001	4	22	12	60	1.	408	27700
3334380	612890	6828790	0.001	6	21	9	50	1	247	22300
3334381	612905	6828835	0.001	4	21	10	53	1	362	26300
3334382	612915	6828885	0.001	5	16	12	42	1	473	28400
3334383	611400	6828850	0.001	3	11	8	20	1	67	5500
3334384	611400	6828900	0.002	3	18	8	19	1	34	4200
3334385	611400	6828950	0.001	2	11	7	12	1	28	3600
3334386	611400	6829000	0.001	4	19	9	43	1	286	21100
3334387	611400	6829025	0.001	5	19	13	46	1	352	23900
3334388	611400	6829050	0.001	5	22	14	52	1	282	27200
3334389	611400	6829075	0.001	5	18	9	45	1	263	22000
3334390	611400	6829100	0.001	4	16	9	38	1	210	20200
3334391	611400	6829125	0.001	4	14	11	44	1	343	29800
3334392	611400	6829150	0.001	4	15	7	46	1	314	25300
3334393	611400	6829175	0.001	5	18	10	53	1	559	32700
3334394	611400	6829200	0.002	6	47	8	58	1	488	30700
3334395	611400	6829225	0.001	5	19	8	43	1	264	30600
3334396	611400	6829250	0.003	4	12	10	22	1	64	6700
3334397	611400	6829300	0.002	7	14	14	43	1	286	22200
3334398	611400	6829350	0.005	6	14	6	30	1	210	15500





TRAVERSE 5 : LINE 611400 mE

Note: Ground magnetic data collected with Scintrex MP-3 magnetometer at 10m station spacing. Diurnal correction applied.

MOUNT DENISON EL 1720 — SA

SKILLOGALEE MAGNETIC ANOMALY
TRAVERSE LINES

REF.	WARRINA SH	53 - 3	
SCALE	1:10000	T	
AUTHOR	M.J.D.	REPORT	18739
DATE	April '93	PLAN No	SAa 6127