

NORTHERN TERRITORY GEOLOGICAL SURVEY
GEOSYSTEM DATA SHEET

REPORT No: CLASSIFICATION:

REPORT TITLE: Technical Report No.1976
Exploration Licence No.6236
Partial Relinquishment Report

AUTHOR(s): I.N. Bruce
M.McGeough

PUBLISHER: M.I.M. Exploration Pty. Ltd.

PLACE OF ORIGIN: Brisbane DATE OF
PUB'N:February, 1994

REPORT TYPE: Unpublished

PAGES IN REPORT: (8) Pages, (0) Appendices, (1) Table & (2)
Figures

VOLUMES: 1

PLANS: 7

CORE: Nil LS:

CUTTINGS: Nil LS:

DRILL CORE?

LICENCE No(s): EL 6236

PROJECT YEAR(s): 5

LICENSEE(s): Quilpie Pty. Ltd.

JOINT VENTURE: McArthur River Regional Joint Venture.

OPERATOR(s): M.I.M. Exploration Pty. Ltd.

1:250 000 Bauhinia Downs SE53-03
Mount Young SD53-19

1:100 000: Batten
Tawallah Range

PROSPECT NAMES:

TECTONIC UNIT: McArthur Basin

TECTONIC SUB-UNIT:

STRATIGRAPHY: McArthur Group; Batten Subgroup.

MAJOR TERMS: METALLIFEROUS MINERALS
(Underlined) NON METALLIFEROUS MINERALS

TARGET GROUPS:
(Underlined)

TIN/TANTALUM/TUNGSTEN	<u>BASE METAL</u>	INDUSTRIAL MINERALS
HEAVY MINERALS	DIAMONDS	PLATINUM GROUP METALS
GOLD	SILVER	DIMENSION STONE
EVAPORATES	URANIUM	GEMSTONES

ANALYSIS:

MINERALISATION: Nil

AMF MINOR TERMS:

(Underlined)

DRILLING	GEOPHYSICAL	GEOCHEMISTRY	GENERAL
	AERIAL SURVEYS	SAMPLING	
DIAMOND	<u>ELECTROMAGNETIC</u>	STREAM SEDIMENT	GEOLOGICAL MAPPING
PERCUSSION	MAGNETIC	SOIL	PHOTOGEOLGY
AUGER	RADIOACTIVITY	ROCK CHIP	METHODS
ROTARY GROUND		TRENCHING	REGIONAL GEOLOGY
VACUUM	<u>EM SURVEY METHOD</u>	BULK	<u>STRATIGRAPHY</u>
	IP SURVEY METHOD	GEOCHEM ANOMALY	RECONNAISSANCE
	RESISTIVITY SURVEY		STRUCTURE
	MAGNETIC SURVEY		METAMORPHISM
	GRAVITY SURVEY		PETROLOGY
	<u>GEOPHYSICAL ANOMALY</u>		LITHOLOGY

GENERAL TERMS:

NOTES:

ABSTRACT: Airborne QUESTEM was flown in 1992 but no anomalies were interpreted on the relinquished areas

M.I.M. EXPLORATION PTY.LTD.

TECHNICAL REPORT

No. 1976

TITLE: EXPLORATION LICENCE No. 6236 "Yalco
North"
PARTIAL RELINQUISHMENT: YEAR ENDED
17TH NOVEMBER 1993

ISSUING DEPARTMENT: EXPLORATION

AUTHOR: I.N. Bruce
M. McGeough

INVESTIGATIONS CONDUCTED BY: M.I.M. Exploration Staff

SUBMITTED BY: R.D.M. Wilson

DATE: February 1994

MAP SHEETS: 1:250 000 Bauhinia Downs (SE3-3)
Mount Young (SD53-19)

1:100 000 Batten
Tawallah Range

This material contains information of a commercial and/or confidential nature and exemption from disclosure under the Freedom of Information Act 1992 - Queensland is claimed.

CONTENTS

- 1. INTRODUCTION AND SUMMARY**
- 2. TENURE**
- 3. LOCATION AND ACCESS**
- 4. REGIONAL GEOLOGY**
- 5. PREVIOUS EXPLORATION**
 - 6.1 1992 "Yalco North" Airborne QUESTEM and Magnetic Survey**
 - 6.2. EL 6236 "Yalco North" Gridding**
- 7. CONCLUSION**
- 8. REFERENCES**

LIST OF FIGURES

1. Location of Map
2. EL 6236 1992 Aerodata QUESTEM Survey Boundaries

LIST OF TABLES

1. Aerodata 1992 "Yalco North" Airborne QUESTEM and Magnetics Survey Details

LIST OF DRAWINGS

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	
33946	EL 6236 Questem Flight Paths	1-NE	1:50 000
33948	EL 6236 Questem Flight Paths	1-SE	"
33949	EL 6236 Questem Flight Paths	1-SW	1:50 000
33950	EL 6236 Questem Flight Paths	11-SE	"
33953	EL 6236 TMI Contours	1-NE	"
33954	EL 5605 & EL 6236 TMI Contours	1-SW	"
33955	EL 6236 TMI Contours	1-SE	"
33957	EL 6236 TMI Contours	11-SE	"
41038	EL 5605, EL 6236 QUESTEM Channel 5 Pseudocolour Image		1:100 000
41039	EL 5605, EL 6236 QUESTEM Anomaly Interpretation Overlay		1:50 000

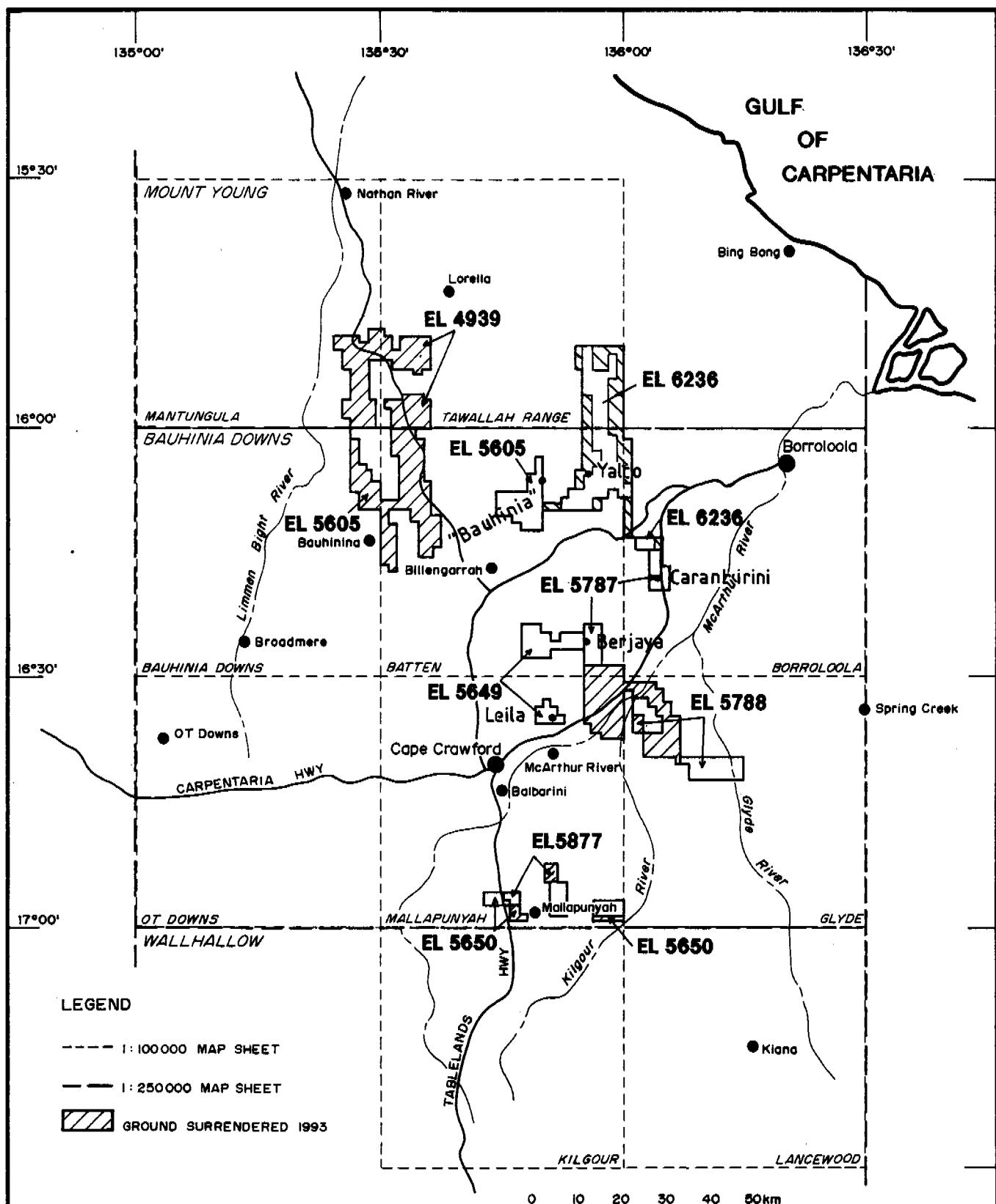
1. INTRODUCTION AND SUMMARY

Exploration Licences Number 6236 in the McArthur River region was granted to Quilpie Pty. Ltd. on the 17th November 1988. On the 17th November 1993 a total of sixty five blocks were relinquished and sixty five retained for the sixth year.

This Licence, together with Exploration Licence Numbers 4939 and 5606, respectively, were the subject of a joint venture agreement dated 4/6/88 between the Licencee and Noranda Pty. Ltd., Perilya Mines N.L., Topend Resources N.L. and T. P. Lindner.

Mount Isa Mines Limited ("MIM") commenced earning in as operator to the joint venture, in 1992.

This report details the exploration on the relinquished blocks of EL 6236.



REVISION

SCALE: 1:1250 000

M.I.M. EXPLORATION PTY. LTD.

GEO I. B.

DRAFT: E. I. K.

CHECKED:

DATE: July '93

1:250 000

1:100 000

MCARTHUR JOINT VENTURE, N.T.

LOCATION MAP

SHOWING CURRENT EXPLORATION LICENCES
AND GROUND SURRENDERED DURING 1993

Fig. 1

MINING FIELD OR DISTRICT:

DRG No.: 41042

2. TENURE

EL 6236 was granted to Quilpie on 17 November, 1988.

A consortium involving Noranda Pty. Ltd., Perilya Mines N.L., Topend, Quilpie and T.P. Lindner formed the "McArthur River Joint Venture" in June, 1988 to explore for base metals on a group of Licences some of which were surrendered or have expired.

Mount Isa Mines Limited commenced negotiations to farm in to the McArthur River Joint Venture in April, 1992 and this new joint venture agreement (the "McArthur River Regional Joint Venture" was executed on 14th December, 1992.

Deferral of the Partial Relinquishment due for EL 6236 on 17 November, 1992 was sought on the grounds of the high prospectivity of the area. The Minister for Mines and Energy granted the deferral, allowing retention of the 130 blocks until 16 November, 1993.

A statutory relinquishment of 50% of the blocks was made on the 17th November 1993 with sixty five block retained.

Applications were made to the Aboriginal Areas Protection Authority in September, 1992 for Authority Certificates to cover selected parts of EL 6236 where detailed exploration was then considered likely to occur.

3. LOCATION AND ACCESS

The Bauhinia Downs (SE 53-3) 1:250 000 sheet covers most of the Licence, although the northern part extends into the Mt. Young (SD 53-15) sheet.

The relinquished areas are shown on Figure 1.

Access to the area is via station tracks, north from the Roper Bar - Borroloola road.

4. REGIONAL GEOLOGY

The Licence covers a broad area (60 kilometres east-west by 120 kilometres north-south) of the "Batten Trough" in the middle Proterozoic McArthur Basin. The regional geology of the Bauhinia Downs sheet is described in detail by Pietsch et al (1991).

The Licence is largely underlain by the dolomitic sedimentary sequence of the McArthur Group. Locally, inliers of the older volcanic and siliciclastic Tawallah Group and outliers of the younger, dolomitic Nathan Group and siliciclastic Roper Group are present.

Platform cover of the Cambrian Bukalara Sandstone masks the Proterozoic geology in the east and southeast and thin (<20m) Cretaceous, terrestrial to shallow marine sediments are locally present. Soil cover is generally thin and skeletal, although laterally extensive alluvial cover is present around major drainages. Coastal sands are present on the Mount Young sheet.

Folding of the Tawallah and McArthur Group sequences is gentle to moderate, with steep dips locally developed in proximity to major faults. The Nathan and Roper Group strata are only gently folded with shallow dips.

Structure is dominated by the interaction of the north-northwest trending fault systems (the Emu and Tawallah/Abner Faults) and the west-northwest trending faults (the Calvert and Mallapunyah Faults).

5. PREVIOUS EXPLORATION

The areas relinquished have been at least partly covered by reconnaissance level stream and or soil geochemical sampling from the mid 1970's.

Perilya Mines N.L. has conducted reconnaissance sampling, geophysics and drilling on many of the prospects for the McArthur River Joint Venture since 1988 (Thornett, 1989; 1990; 1991; Thornett and Kwiecien, 1992). However no exploration was carried out on the areas relinquished due to the remote and difficult access of the area

6. EXPLORATION BY M.I.M.EXPLORATION PTY.LTD.

6.1 1992 'Yalco North' Airborne QUESTEM and Magnetic Survey

Airborne electromagnetics has proven to be effective in the McArthur Basin for mapping and for detection of sub-surface conductive material. MIMEX staff reviewed the results of the Perilya Mines NL 1990 QUESTEM survey and concluded that further QUESTEM surveys were warranted to infill and extend the previous database.

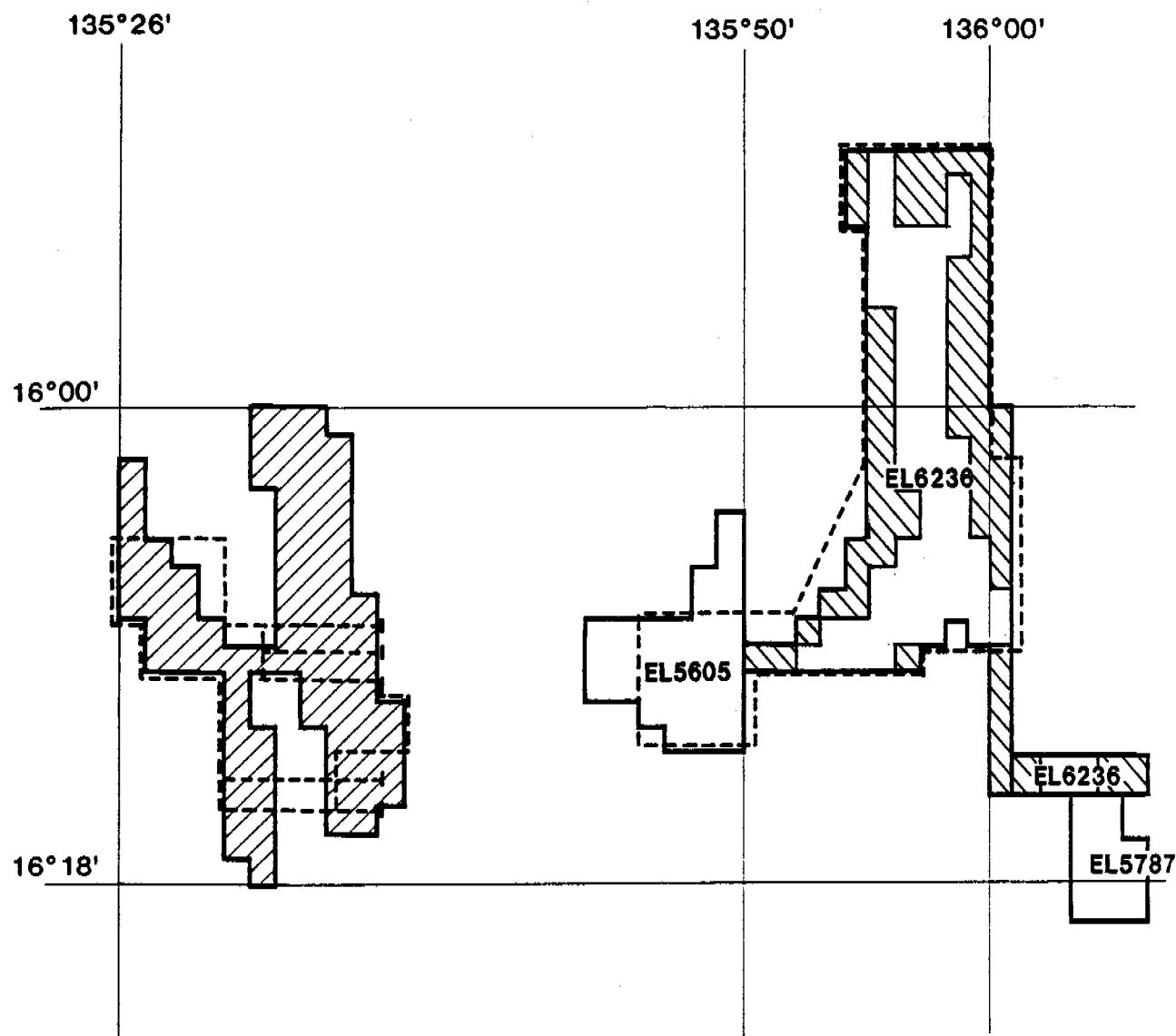
Aerodata were commissioned to undertake a 1943 line kilometre QUESTEM survey, which was flown in October, 1992. The boundary of the survey is shown on Figure 2.

The 1992 'Yalco North' airborne geophysical survey comprised a detailed QUESTEM electromagnetic and magnetic survey covering "Yalco North" EL 6236 Area . Field work was carried out by Aerodata on 14th, 15th and 16th October, 1992. The survey details and specifications are given in Table 1 and flight paths are shown on Drawings Nos. 33946,33948 and 33950.

The aim of this survey was to obtain systematic information on the structure and electrical properties of rock types and to search for sulphide mineralisation.

The results of the 1992 Aerodata 'Yalco North' QUESTEM survey show a response pattern comprising irregular conductive zones within a generally resistive environment (the Channel 5 pseudocolour image, Drawing No. 41038).

The magnetic results show a pattern of anomalies outlining a broad arch, transected by subtle magnetic lineaments oriented northwest, northeast and north-



EL Boundary



Area relinquished 1993



1992 Questem Survey

REVISION		SCALE: 1:500 000		M.I.M. EXPLORATION PTY. LTD.
		GEO	LB.	
		DRAFT:	E.I.K.	
		CHECKED:		
		DATE:	July '93	
		1:250 000	SE53-3	McARTHUR JOINT VENTURE, N.T.
		1:100 000	6065	EL 5605, 6236
MINING FIELD OR DISTRICT:				1992 AERODATA QUESTEM SURVEY BOUNDARIES
				Fig. 2
				DRG No.: 41043

Table I.

AERODATA 1992 'YALCO NORTH' AIRBORNE QUESTEM AND MAGNETIC SURVEY DETAILS

Survey Specifications.

Total lines flown	30010-30840=84 : 1577 kilometres
Flight line direction	east-west
Flight line spacing	500 metres
Tie line direction	north-south
Tie line spacing	6.5, 7 and 9 kilometres
Dates flown	14, 15 & 16 October 1992
Nominal aircraft terrain clearance	120 metres
Nominal aircraft speed	52 metres per second

QUESTEM Instrument Specifications.

Nominal Geometry:

Transmitter (aircraft) terrain clearance	120 metres
Receiver (towed bird) terrain clearance	45 metres
Transmitter-receiver separation	not stated

Transmitter:

Configuration 6 turn, vertical axis loop of 186 square metres area
Output 200 amperes peak current

Waveform 223000 ampere square metres dipole moment
Pulse Length 0.002 seconds half sine wave pulses of alternate polarity
Off Time 0.00467 seconds
Cycling Rate 75 hertz

Receiver:

Configuration multi-turn coil with horizontal axis in flight direction
Sampling rate 128 digital samples per transmitter on + off time
Sample size 0.00005208 seconds
Reading rate 4 readings per sec.; ie reading every 13 metres approx.
Channel times expressed as elapsed time after transmitter switch off:

Channel number	Channel start	Channel centre	Channel end
Tx switch off	0.000000 seconds		
1	0.000168 seconds	0.000247 seconds	0.000324 seconds
2	0.000273 seconds	0.000351 seconds	0.000429 seconds
3	0.000377 seconds	0.000455 seconds	0.000533 seconds
4	0.000481 seconds	0.000559 seconds	0.000637 seconds
5	0.000584 seconds	0.000715 seconds	0.000845 seconds
6	0.000793 seconds	0.000924 seconds	0.001054 seconds
7	0.001001 seconds	0.001131 seconds	0.001262 seconds
8	0.001210 seconds	0.001393 seconds	0.001574 seconds
9	0.001418 seconds	0.001601 seconds	0.001782 seconds
10	0.001626 seconds	0.001861 seconds	0.002095 seconds
11	0.001939 seconds	0.002174 seconds	0.002408 seconds
12	0.002355 seconds	0.002643 seconds	0.002929 seconds
13	0.002876 seconds	0.003163 seconds	0.003450 seconds
14	0.003398 seconds	0.003684 seconds	0.003971 seconds
15	0.003918 seconds	0.004205 seconds	0.004490 seconds
Tx switch on	0.004670 seconds		

Magnetometer Specifications.

Instrument Cs vapour optical absorption
Configuration mounted in stinger
Resolution 0.1 nanoteslas
Sample time 0.001 seconds
Sampling rate 2 per second; ie reading every 26 metres approx.

transected by subtle magnetic lineaments oriented northwest, northeast and north-south (corrected TMI Contour Plans, Drawing No's. 33953 to 33955 and 33957).

Interpretation of the 1992 QUESTEM data was carried out using both flight profiles and images, with data grouped on an anomaly basis. Locations for the anomalies identified are included on Drawing No. 41039.

The total Magnetic Intensity contour plans show anomaly patterns apparently outlining a broad arch transgressed by subtle magnetic lineaments in the north of the survey area.

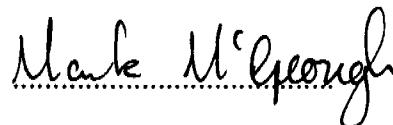
6.2 EL 6236 "Yalco North" Gridding.

Interpretation of the airborne QUESTEM indicated a number of anomalies within the retained area of EL 6236.

An earthmoving contractor was employed in October, 1992 to upgrade access tracks and the existing Perilya Mines grid and to extend the gridding to the north and southwest (Figure 4). The ends of some of these gridded lines may continue for short distances into the relinquished portion however these will be now overgrown by vegetation.

7. CONCLUSION

The 1992 QUESTEM survey identified no significant anomalies in the area covered by this report.



M. McGeough
I.N. Bruce

REFERENCES

Pietsch, B.A., Rawlings, D.J.,
Creaser, P.M., Kruse P.D.,
Ahmad., M., Ferenczi,
P.A. and Findhammer, T.L.R., 1991:

1:250 000 Geological Map Series Explanatory Notes Bauhinia
Downs SE53-3
Department of Mines and Energy, Northern Territory Geological
Survey.

Thornett, J. and
Kwiecien, B.S., 1992:

Report to the Department of Mines and Energy on the
McArthur River Project Area, N.T. for the Period 13/7/91 to
12/7/92.

Thornett, S.E., 1989:

Report to the Department of Mines and Energy on the
McArthur River Project Area, N.T. for the period 13/7/1988 to
13/7/1989.

Perilya Mines N.L.

Thornett, S.E., 1990(1):

Report to the Department of Mines and Energy on the
Relinquishment Portions fo Exploration Licences 5605, 5606,
5649, 5650, 5787 and the Relinquished EL 5878. McArthur
River Project Area, N.T.

Thornett, S.E., 1990(2):

Report to the Department of Mines and Energy on the
McArthur River Project Area, N.T. for the period 13/7/1989 to
12/7/9190.

Perilya Mines N.L.

Thornett, S.E., and
Thornett, J. (1991):

Report to the Department of Mines and Energy on the
Relinquished Portions of Exploration Licences 5605, 5606,
5649, 5650, 5787, 5788 and 5877, McArthur River Project area,
N.T.

Perilya Mines N.L.

Thornett, S.E., 1991:

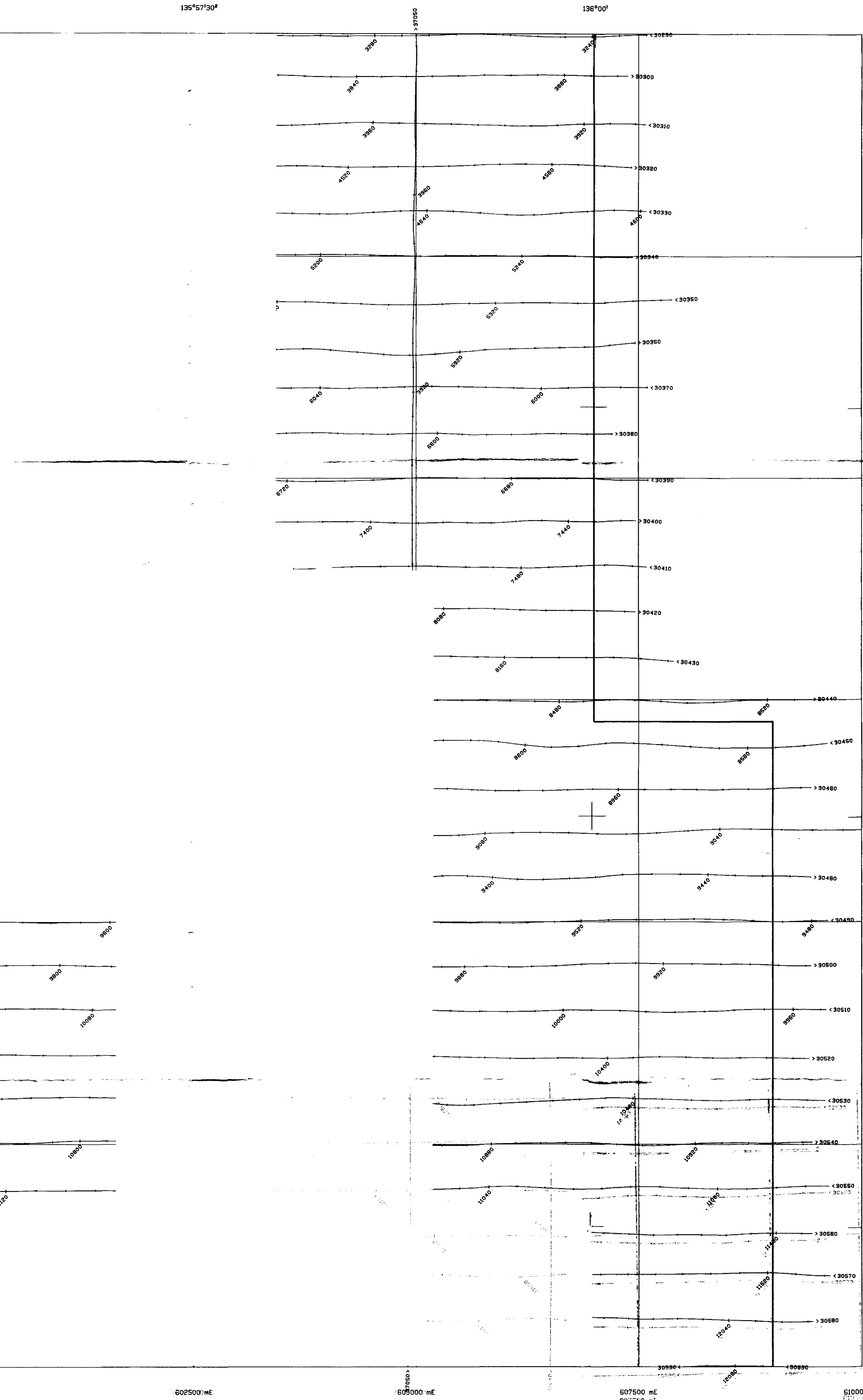
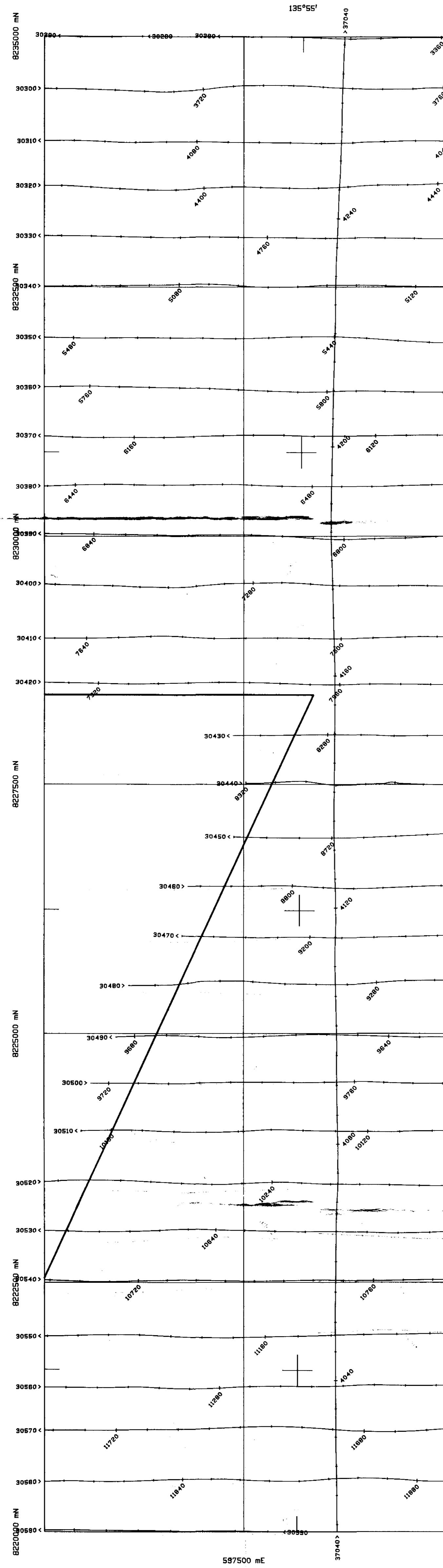
Report to the Department of Mines and Energy of the McArthur
River Project Area, N.T., for the period 13/7/90 to
12/7/91

Perilya Mines N.L.

Kwiecien, B.S., 1992:

Report to the Department of Mines and Energy on the
Relinquished Portions of Exploration Licences 5605, 5606,
5649, 5650, 5787, 5788 and 5877.

Perilya Mines N.L.



AIRBORNE SURVEY SPECIFICATIONS

AIRCRAFT BRITEN NORMAN TRIBLERD
MAGNETOMETER SPLIT BERM CESUM SCINTREX V201.
RESOLUTION 0.01 nanoTesla.
CYCLE RATE: 0.5 seconds.
SIGNAL PROCESSING: SCINTREX time domain EM.
TRANSMITTER BASE FREQUENCY: 75.0 Hz
CYCLE RATE: 0.25 seconds
SAMPLE INTERVAL: 15 metres
RECEIVER horizontal coil in towed bream
MEAN WINDOW DELAY TIMES (msec)
0.2467 0.3509 0.4550 0.5595 0.7154
0.8588 0.9630 1.0671 1.1715
2.0177 2.6455 3.2834 3.8842 4.1010

DATA ACQUISITION 11 CHANNEL RMS CR33P CHART RECORDER,
PICODRS PDRS 1000 ACQUISITION SYSTEM
FLIGHT LINE SPRACING TRAVERSE LINES: 500 metres.
TIE LINES: 8000 metres.
FLIGHT LINE DIRECTION TRAVERSE LINES: 080 degrees.
TIE LINES: 000 degrees.
SURVEY HEIGHT MEAN TERRAIN CLEARANCE: 120 metres.
NAVIGATION TRIMBLE TRANS GPS satellite positioning

DATA PROCESSING

- 5 fiducial Interval
- 40 fiducial Interval

M.I.M. EXPLORATION Pty. Ltd. YALCO NORTH - NORTHERN TERRITORY AIRBORNE GEOPHYSICAL SURVEY

FLIGHT PATH

Scale 1:25 000

500 0 500 1000 1500 2000 2500 metres

AUSTRALIAN MAP GRID

Flown and compiled by AERODATA HOLDINGS LIMITED

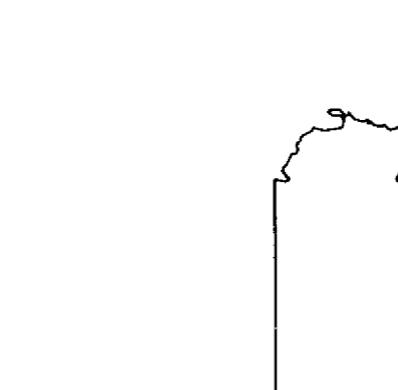
October 1992 Job No. 1920

AERODATA

CR 94 / 155

VICINITY MAP

Scale 1:25 000
Australian Map Grid



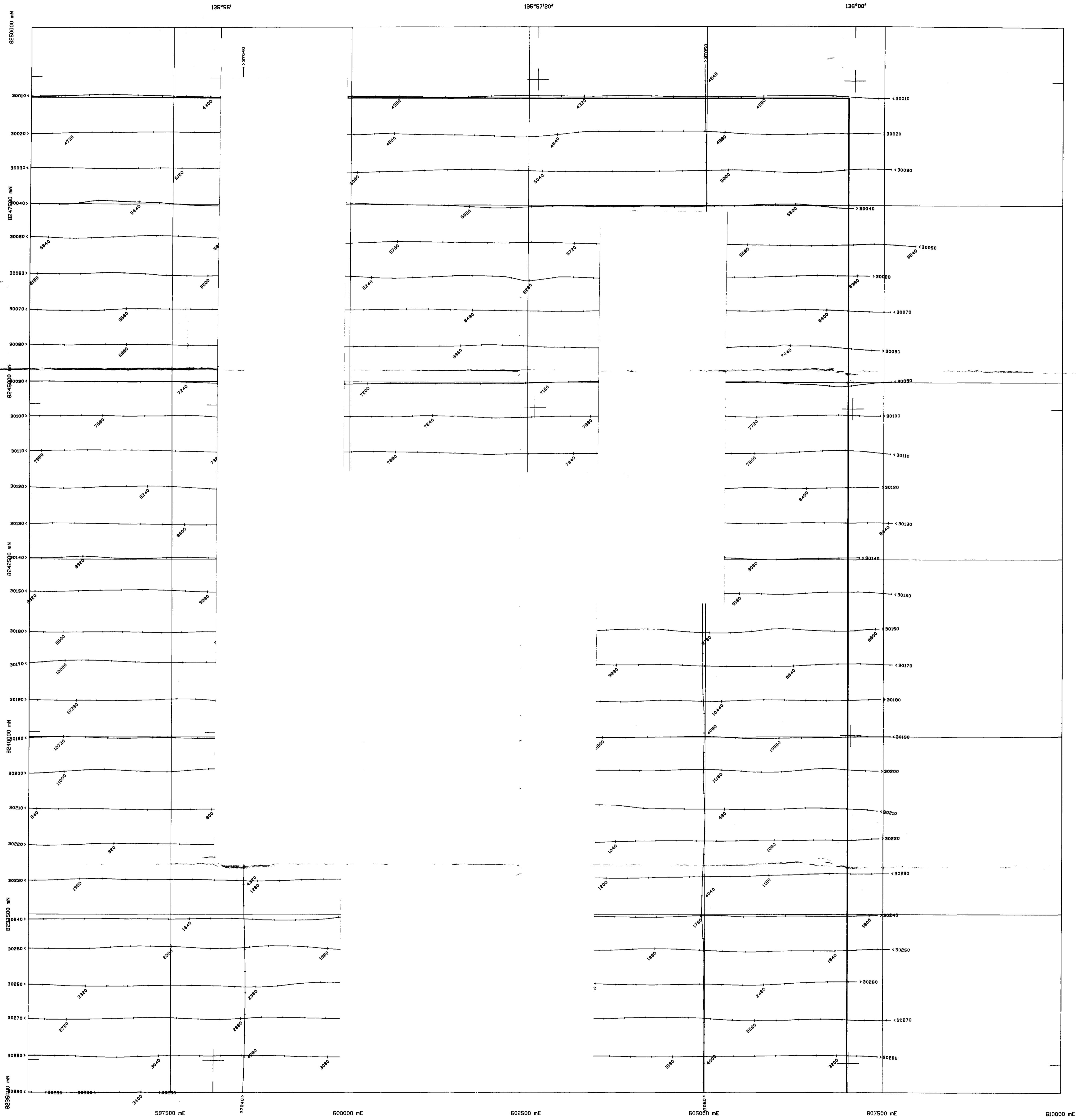
GRID LAYOUT

Scale 1:25 000
Australian Map Grid

15°45'	15°46'
E-NW	B-NW
E-NE	B-SE
E-SW	B-SE
E-SE	B-SW
F-NW	C-NE
F-SE	C-SE
F-SW	C-SE
F-NE	C-NW
G-NW	D-NE
G-SE	D-SE
G-SW	D-SE
G-NE	D-NW

North point relationships are shown for the corner of the map.
Magnetic north is true north.
Grid north is true north.
Grid angle after 1980.
Grid convergence 0.0016°.
Secular variation 0.019° east per year.

Drawing No. 33846 A



AIRBORNE SURVEY SPECIFICATIONS

TRANSMITTER BASE FREQUENCY: 75.0 Hz
CYCLE RATE: 0.25 seconds
SAMPLE INTERVAL: 15 metres
RECEIVER horizontal axis coil in towed bird
MEAN WINDOW DELAY TIMES (msec)

DATA ACQUISITION MEAN WINDOW LENGTH TIMES (MS)
 0.2467 0.3509 0.4550 0.5592 0.7154
 0.9238 1.1312 1.3925 1.6009 1.8613
 2.1738 2.6425 3.1634 3.6842 4.1010
11 CHANNEL RMS GR33R CHART RECORDER
RICOHRS RD98S 10000 ACQUISITION SYSTEM

PICODAS PDRS 1000 ACQUISITION SYSTEM

FLIGHT LINE SPACING	TRAVERSE LINES: 500 metres. TIE LINES: 8000 metres.
FLIGHT LINE DIRECTION	TRAVERSE LINES: 090 - 270 degrees. TIE LINES: 000 - 180 degrees.
SURVEY HEIGHT	MEAN TERRAIN CLEARANCE - 120 metres.
NAVIGATION	TRIMBLE TOTAL GPS - 1000

DATA PROCESSING

— 5 fiducial Interval
+ 40 fiducial Interval

M.I.M. EXPLORATION Pty. Ltd.

YRLCO NORTH - NORTHERN TERRITORY

AIRBORNE GEOPHYSICAL SURVEY

FLIGHT PATH

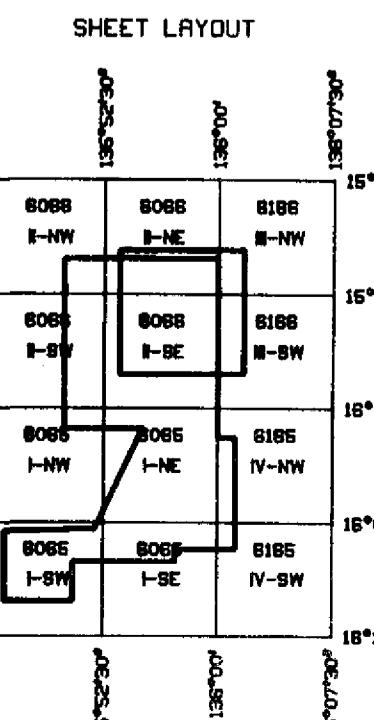
Scale 1:25 000

500 0 500 1000 1500 2000 2500 metre

NORTH

Flown and compiled by AERODRONE
October 1999
Job No. 123

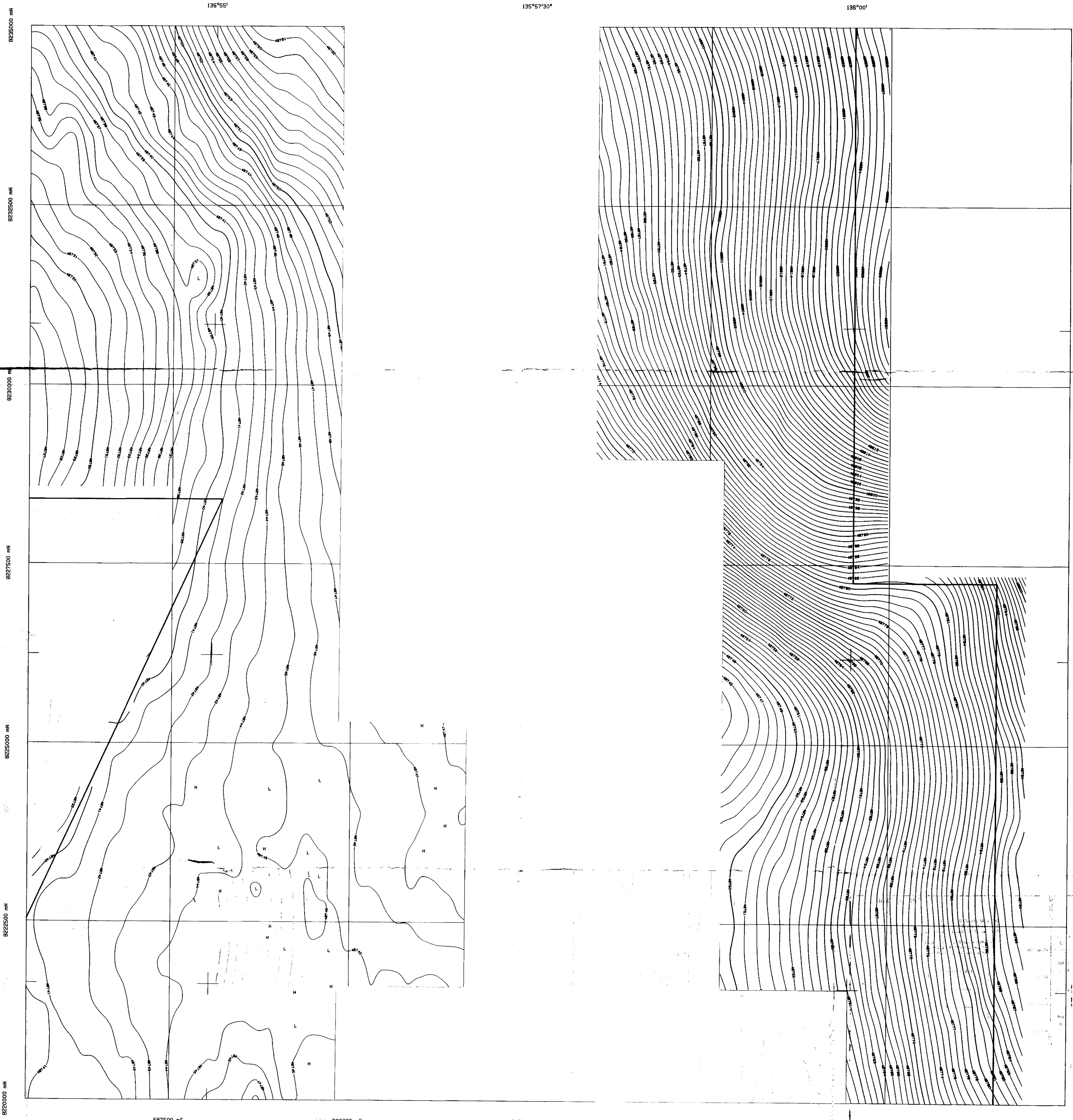
CR 94 / 155



GRID NORTH
TRUE NORTH

MAGNETIC NORTH

GRID/MAGNETIC ANGLE 4°22'49"
 GRID CONVERGENCE 0°15'48.40"
 SECULAR VARIATION 0°01'13" east per year



AIRBORNE SURVEY SPECIFICATIONS

AIRCRAFT: BRITEN NORMAN TRISLABLER
MAGNETOMETER: SPLIT BEAM CESUM SONTREX V201.
RESOLUTION: 0.01 nanoTesla.
CYCLE RATE: 0.5 seconds.
SAMPLE INTERVAL: 30 metres.

ELECTROMAGNETIC SYSTEM: QUESTER time domain EM
ANTENNA SYSTEM: 100m vertical loop, FREQUENCY: 75.0 Hz
CYCLE RATE: 0.25 seconds.
SAMPLE INTERVAL: 15 metres.

RECEIVER: horizontal axis coil in towed bird
MEAN WINDOW DELAY TIMES (msec)
0.2467 0.3500 0.4550 0.5592 0.7154
0.8238 1.1312 1.3925 1.8009 1.8613
2.1738 2.6425 3.1834 3.6842 4.1010

DATA ACQUISITION: 11 CHANNELS, GEAR CHART RECORDER,
PICTOR PDRS 1000 ACQUISITION SYSTEM

FLIGHT LINE SPACING: TRAVERSE LINES: 500 metres.
FLIGHT LINE DIRECTION: TIE LINES: 8000 metres.
TRAVERSE LINES: 090 - 270 degrees.
TIE LINES: 000 - 180 degrees.
MEAN TERRAIN CLEARANCE: 120 metres.
NAVIGATION: TRIMBLE TRANS GPS satellite positioning

DATA PROCESSING

CONTOUR INTERVAL: 1 nanoTesla
GRID CELL SIZE: 175 metres

M.I.M. EXPLORATION Pty. Ltd.
YALCO NORTH - NORTHERN TERRITORY
AIRBORNE GEOPHYSICAL SURVEY
TOTAL MAGNETIC INTENSITY CONTOURS

Scale 1:25 000
500 0 500 1000 1500 2000 2500 metres

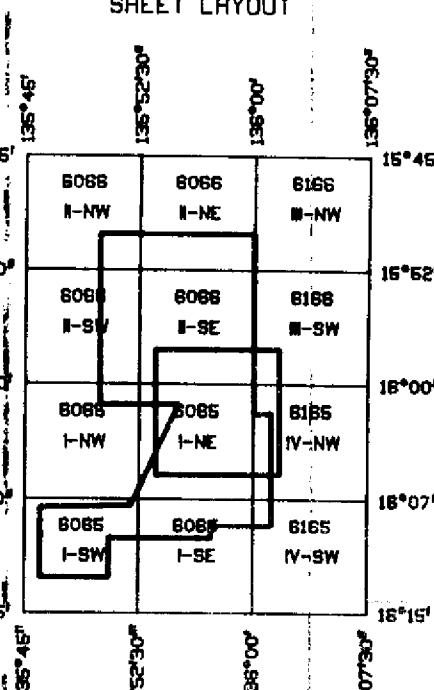
AUSTRALIAN MAP GRID

Flown and compiled by AERODATA HOLDINGS LIMITED
October 1986
Job No. 1320

RERODATA

CR 94 / 155

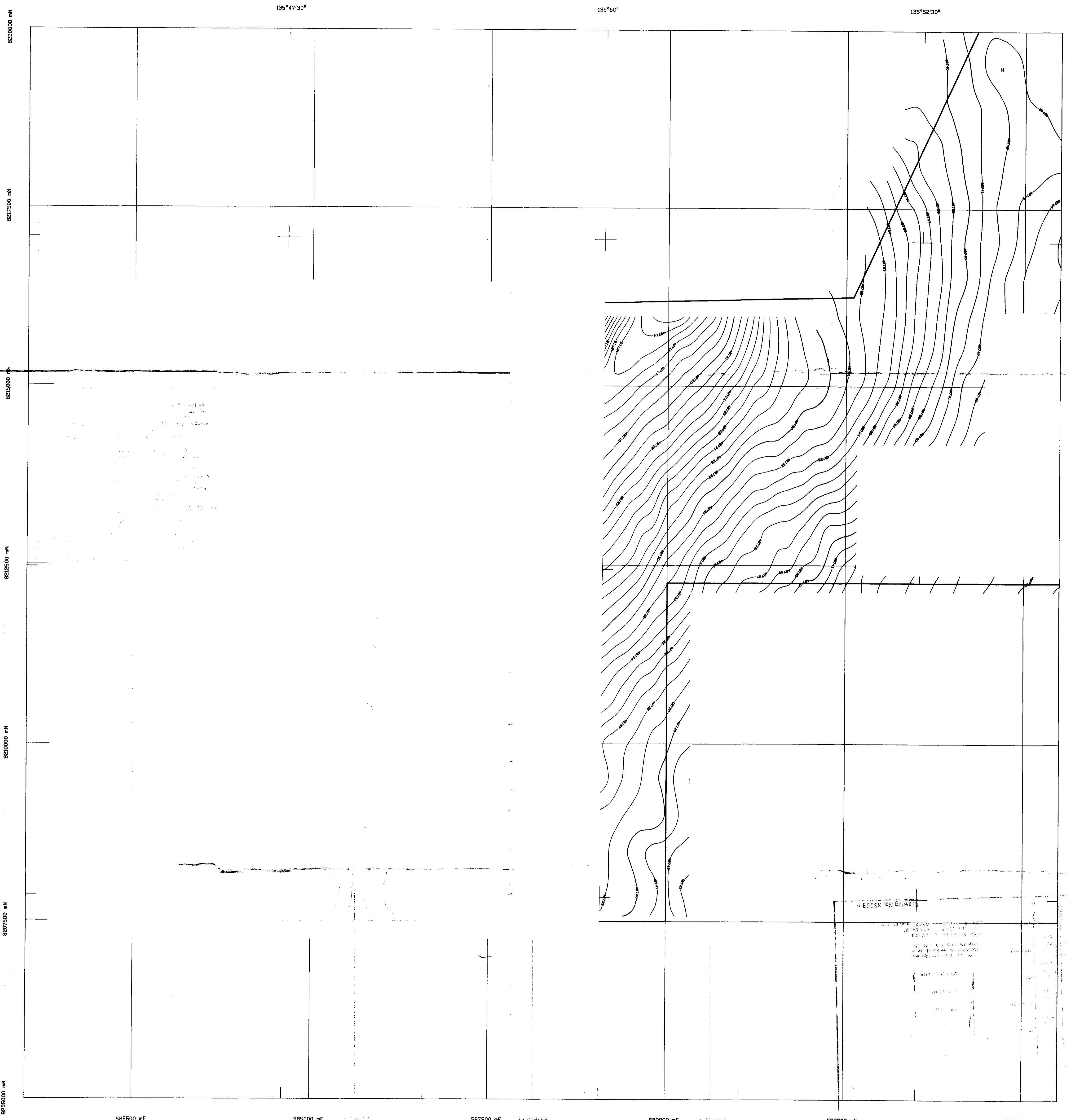
SHEET LAYOUT



GRID NORTH
TRUE NORTH
MAGNETIC NORTH

North point relationships are shown for the centre of the map.
Magnetic north is true for 1980.

GRID/MAGNETIC ANGLE: 4°29'29"
GRID CONVERGENCE: 0°15'54.80"
SECULAR VARIATION: 0°01'09" east per year



AIRBORNE SURVEY SPECIFICATIONS

AIRCRAFT BRITISH NORMAN TRISLASSER.
MAGNETOMETER SPLIT BEAM CESUM SCINTREX V201.
RESOLUTION 0.01 nanoTesla.
CYCLIC RATE: 0.5 seconds.
SAMPLE INTERVAL: 30 metres.

ELECTROMAGNETIC SYSTEM QUESTER 4000 C4.
TRANSMITTER BIAS FREQUENCY: 75.0 Hz
CYCLE RATE: 0.25 seconds
SAMPLE INTERVAL: 15 metres
RECEIVE horizontal axis coil in tower bird

MEAN WINDOW DELAY TIMES (msec)
0.2467 0.3509 0.4550 0.5592 0.7154
0.8638 0.9680 1.0722 1.1865
2.1772 2.2425 2.3153 2.3842 2.4100

DATA ACQUISITION 11 CHANNEL RMS CR33 CHART RECORDER.
PICORDS PDRS 1000 ACQUISITION SYSTEM

DATA PROCESSING

CONTOUR INTERVAL: 1 nanoTesla
GRID CELL SIZE: 175 metres
The magnetic data have been corrected for regional gradient by subtraction of I.G.R.F. model 1989-1990 and secondary model 1985-1990.
Diurnal magnetic variations have been removed.
System parasitic has been removed.
Microllevelling has been applied.

M.I.M. EXPLORATION Pty. Ltd.

YALCO NORTH - T NORTHERN TERRITORY
AIRBORNE GEOPHYSICAL SURVEY
TOTAL MAGNETIC INTENSITY CONTOURS

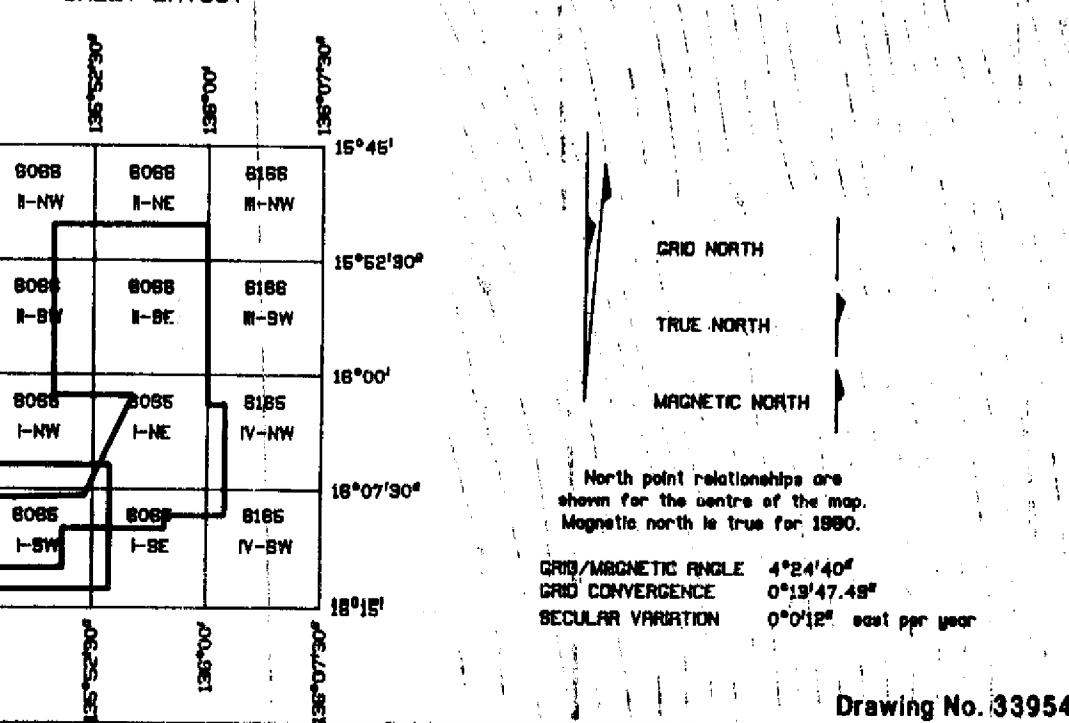
Scale 1:25 000
AUSTRALIAN MAP GRID

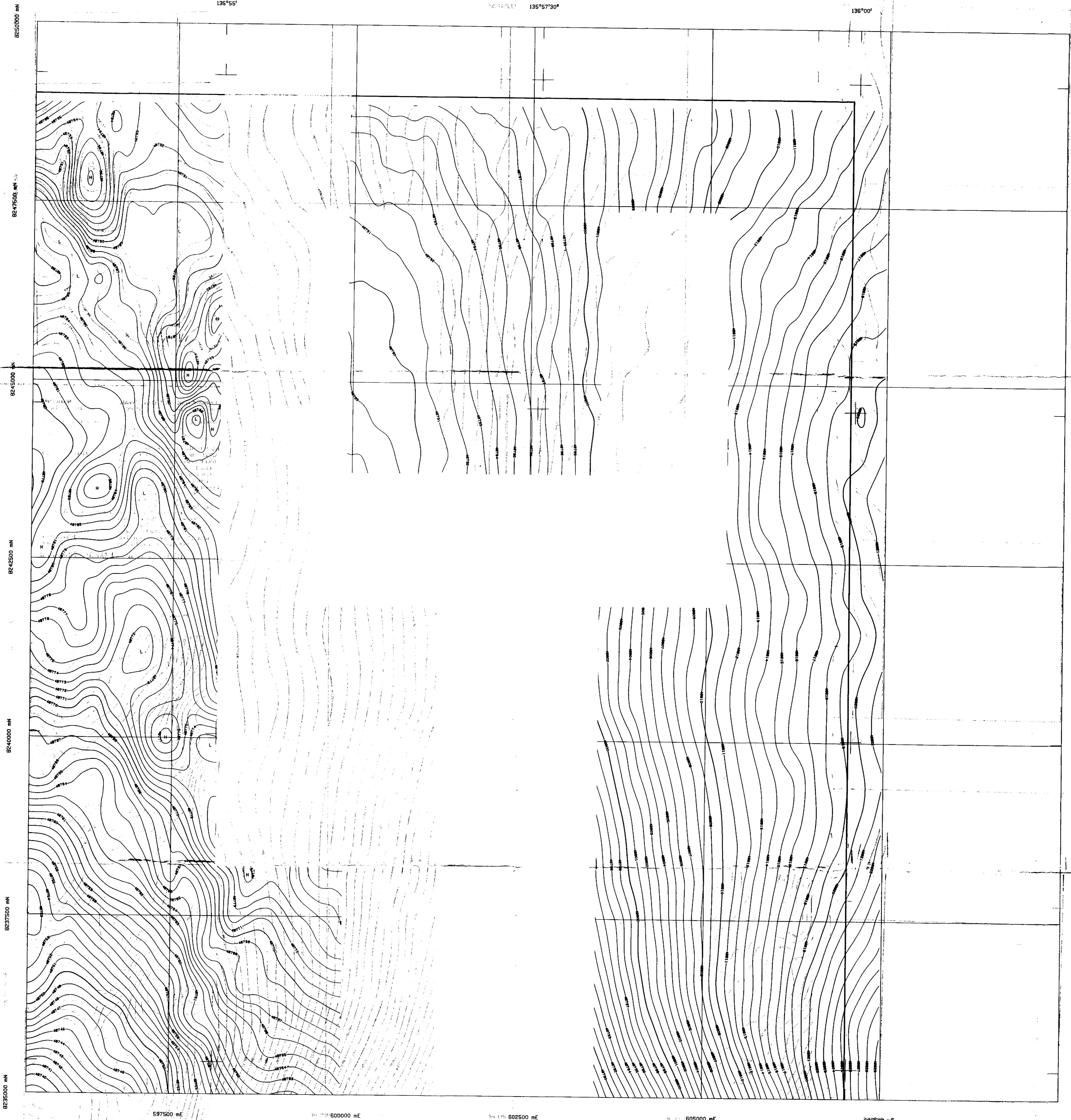
Flown and compiled by AERODATA HOLDINGS LIMITED
October 1992
Job No. 1320

AERODATA

CR 94 / 155

SHEET LAYOUT





AIRBORNE SURVEY SPECIFICATIONS

AIRCRAFT: BRITISH AIRWAYS TRIPPLANE.
MAGNETOMETER: SPLIT DERM ESSUM SOUTHERN VEOL.
RESOLUTION: 0.01 nanoTesla.
CYCLE RATE: 0.5 seconds.
SAMPLE INTERVAL: 30 metres.
ELECTROMAGNETIC SYSTEM: QUESTEM time domain EM.
TRANSMITTER BIAS FREQUENCY: 75.0 Hz
CYCLE RATE: 0.25 seconds.
SAMPLE INTERVAL: 15 metres.
PICKUP: DEDICATED ON BOARD TOWED BIRD
MEN/WINDON DELTA TIME (msec):
0.2467 0.3503 0.4550 0.5592 0.7154
0.9238 1.1912 1.3925 1.6009 1.8613
2.4738 2.6425 3.1634 3.6842 4.1010
11 CHANNEL RMS CR33R CHART RECORDER,
PICORDS PDRS 1000 ACQUISITION SYSTEM

DATA PROCESSING

CONTOUR INTERVAL: 1 nanoTesla
GRID CELL SIZE: 175 metres
The magnetic field has been corrected for regional gradient by subtraction of a GCRF model 1990 and secular variation model 1985-1990.
Diurnal magnetic variations have been removed.
System parallax has been removed.
Microlevelling has been applied.

MINIMEXPLORATION Pty. Ltd.

FRUITWOOD, YALCO, NORTHERN TERRITORY
AUSTRALIA AIRBORNE GEOPHYSICAL SURVEY
TOTAL MAGNETIC INTENSITY CONTOURS

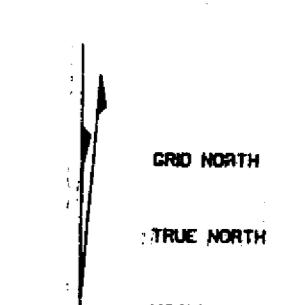
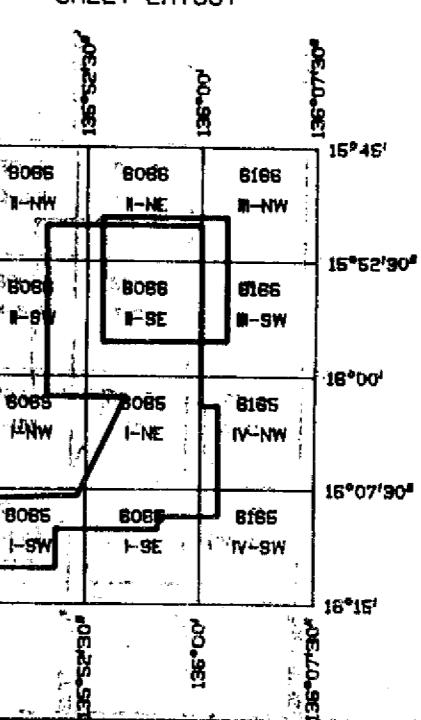
Scale 1:25 000
500 000 0 500 500 1000 1500 2000 2500 metres

1992-10-01 AUSTRALIAN MAP GRID
Flown and compiled by AERODATA HOLDINGS LIMITED
October 1992
Job No. 1920

AERODATA

CR 94 / 155

SHEET LAYOUT



Grid North
True North
Magnetic North
North point relationships are shown for the centre of the map.
Magnetic North is true for 1990.
Grid Magnetic Angle 4°28'49"
Grid Convergence 0°15'46.40"
Secular Variation 0°0'13" east per year

8245000 +
8240000 +
8235000 +
8230000 +
8225000 +
8220000

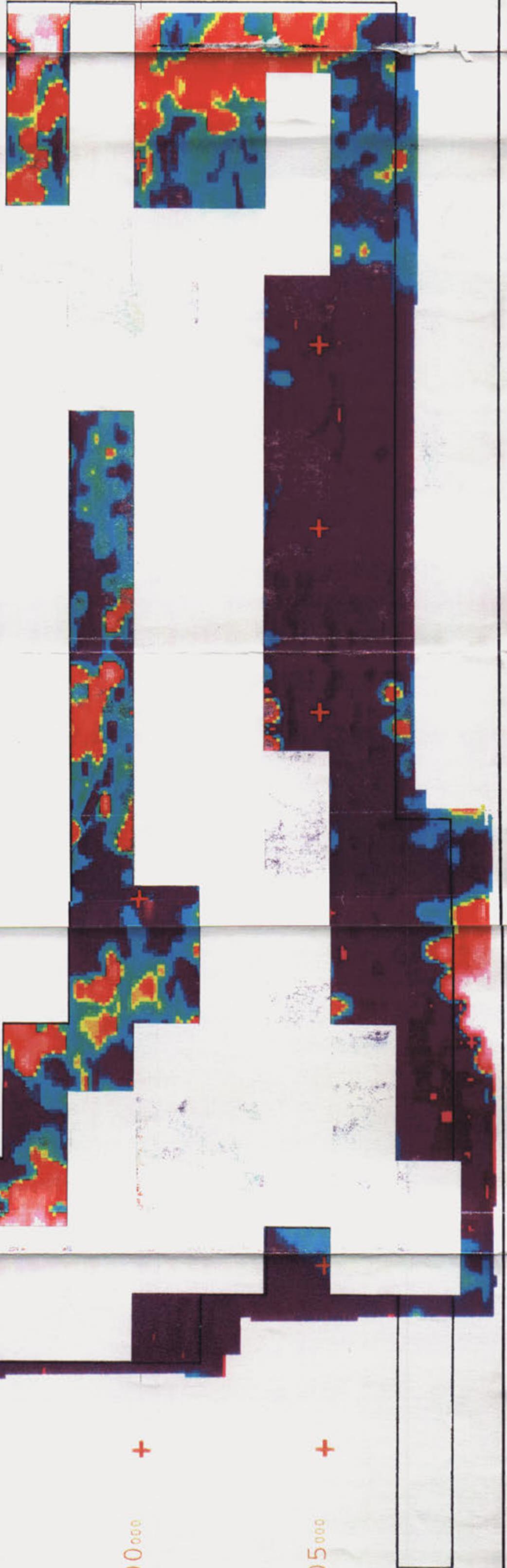
585

590

595000

600000

605000



MIM EXPLORATION PTY LTD
EL 6236
QUESTEM CHANNEL 5 & CHANNEL 6
PSEUDOCOLOUR IMAGE

CR 94 / 155

1:100 000

DRG. No. 41038 A

