

# OPEN FILE

NOBELEX N.L.

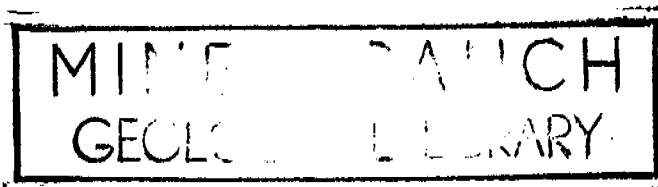
COMPLETION EXPLORATION REPORT

EXPLORATION LICENCE 375 - SHORT RANGE II

TENNANT CREEK, NORTHERN TERRITORY

For the two years ending

22nd August, 1974



CR 74/172

Prepared for NOBELEX N.L.  
By AUSTRALIAN DEVELOPMENT LIMITED  
Managing Agents for NOBELEX N.L.



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Pocket

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SECTION 1.

ANNUAL EXPLORATION REPORT.

1. Introduction

Exploration Licence 375 covers an area of 32 square miles and is located 27 miles northwest of Tennant Creek.

The aeromagnetic data available to the Company in the first year of tenure was of poor quality, which made anomaly selection and ground follow-up difficult.

After a small part of E.L. 185 (also held by Nobelex N.L.) was reflown in 1973, a comparison of the old and new data showed the quality of the old data to be of too poor a quality for our purpose.

E.L. 375 was therefore reflown in the second year of tenure.

2. Exploration

2.1 Airborne Geophysical Survey

A low level Airborne Magnetometer Survey was completed over the E.L. during the second year of tenure.

The results of this survey were received on the 8th July, 1974, and evaluated. The results were of very good quality, as seen by the evenness of the flight path direction and spacing. The latter survey confirmed that there are no anomalies within the E.L. area which are presently considered to be caused by Tennant Creek ironstone type sources. The responses obtained are thought to be caused by dolerite dykes and sills which are prevalent in the area.

The survey was flown and processed by Geometrics International Corporation. Flight height was 300 feet M.T.C., and nominal flight line spacing was  $\frac{1}{8}$  mile. The data was collected with a proton magnetometer, recorded digitally, and results were processed and contoured by computer.

Further Work

No further work on this E.L. is planned, in the light of the latest Airborne Geophysical Survey.

3. Summary and Expenditure

A summary of exploration work on E.L. 375, Short Range II, during the two years of tenure is given below.

Airborne geophysics	32 square miles.
Anomalies selected	One (1)
Anomalies located	Nil (0)

Total expenditure on E.L. 375 for the two years of tenure was \$4,067.

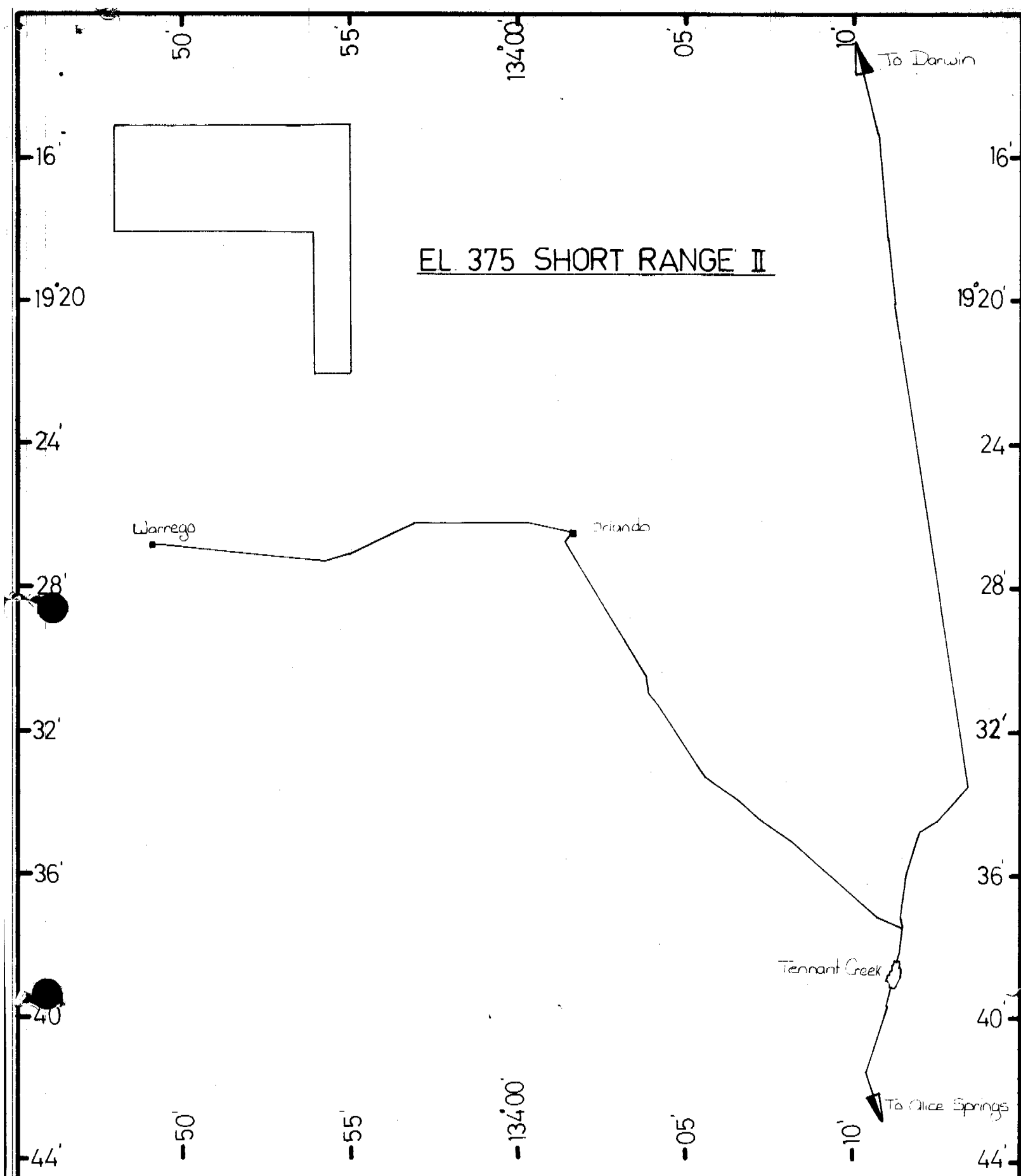


FIG 1 LOCALITY MAP:- EL 375 SHORT RANGE II

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Managing Agents for Nobelex NL.

SCALE 1:250,000

SECTION 2.

TECHNICAL DATA

1. Airborne Geophysical Survey

1.1 Figure 2 (See Pocket)

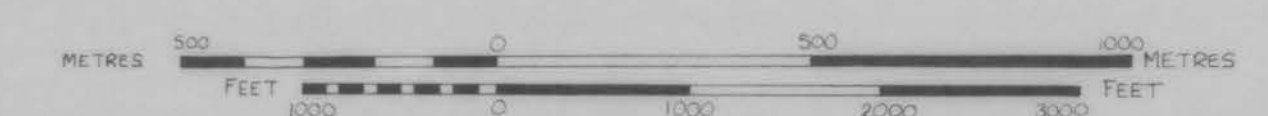
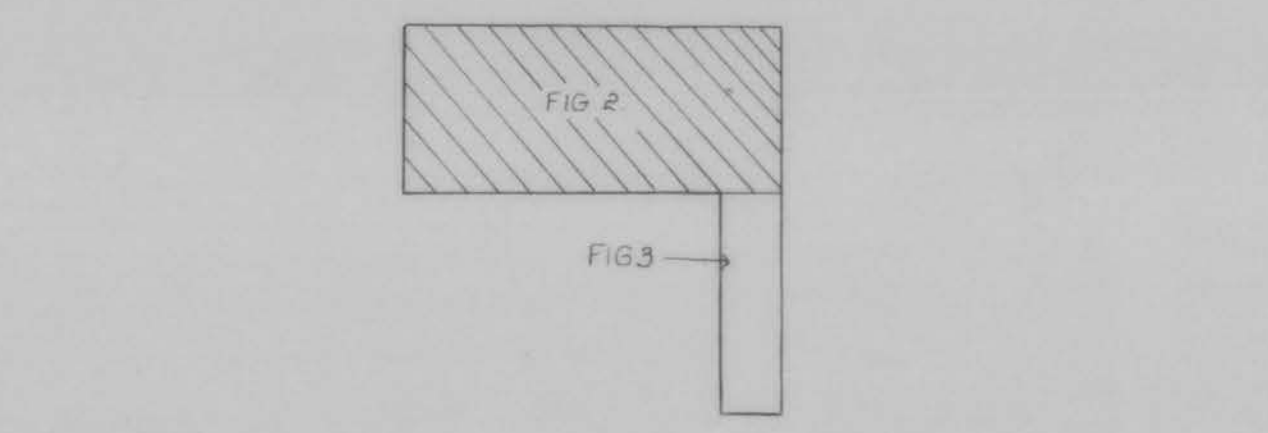
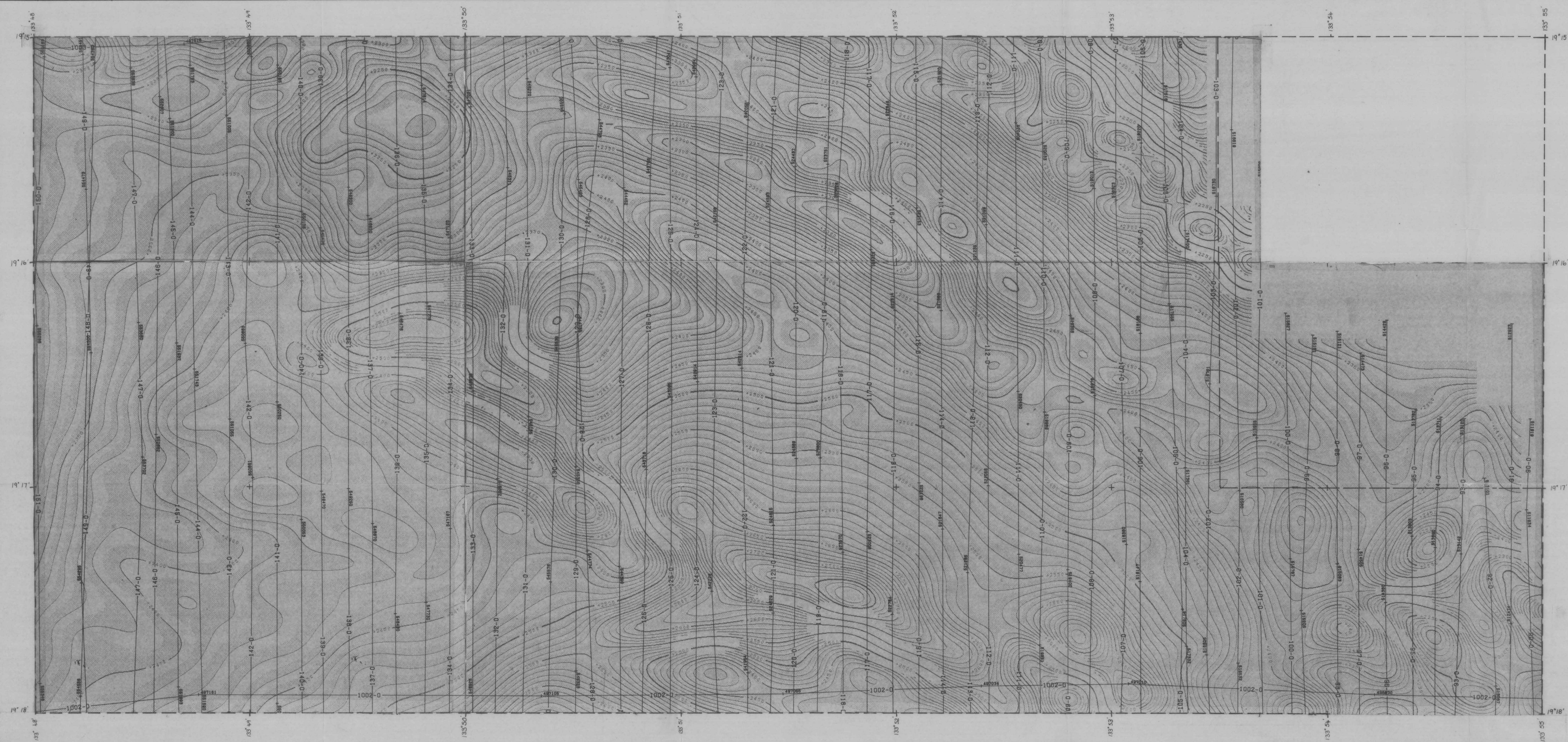
Total Aeromagnetic Intensity Contour  
Plan.

1.2 Figure 3 (See Pocket)

Total Aeromagnetic Intensity Contour  
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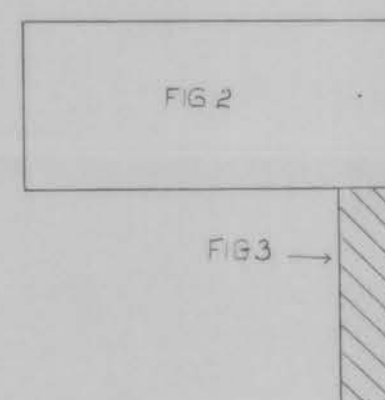
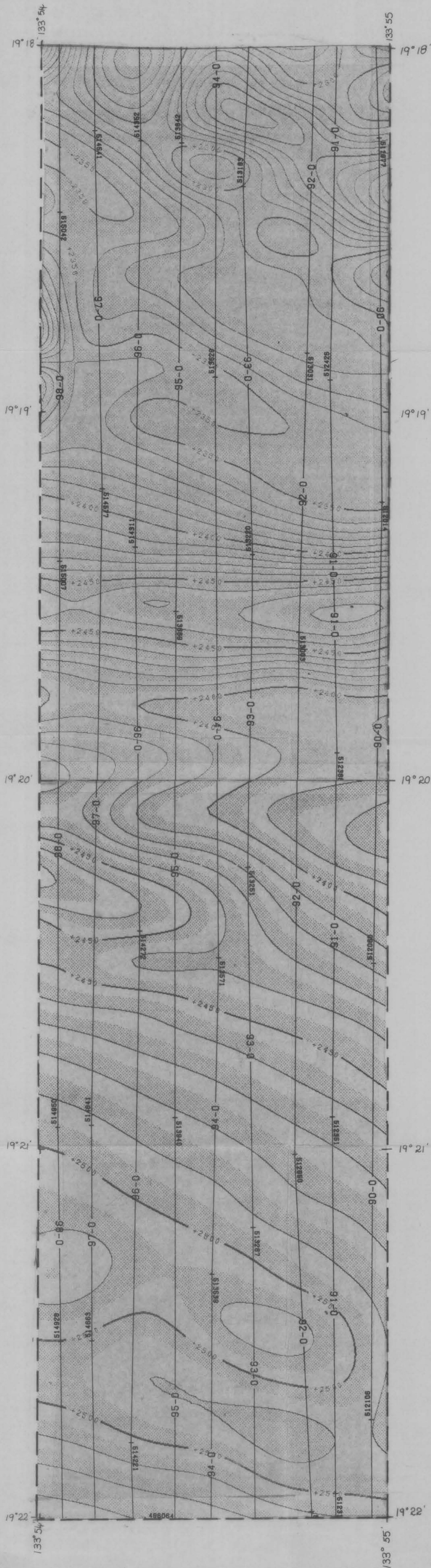
CONTOUR INTERVAL 10 GAMMAS (NT)  
 SHADING ON LOW SIDE 5 GAMMAS (NT)  
 DATUM ARBITRARY  
 FLIGHT LINE SPACING 660 FT. (1/8 MILE)  
 FLIGHT ALTITUDE 300 FEET MTC  
 FLOWN AND COMPILED 1973  
 INSTRUMENT USED GEOMETRICS G-803 PROTON MAGNETOMETER

AUSTRALIAN DEVELOPMENT LTD.  
 TENNANT CREEK N.T.  
 TOTAL AEROMAGNETIC INTENSITY  
 CONTOURS PLAN  
 E.L. 375 SHORT RANGE II

SCALE	1" = 1000'
DATE	30.8.74
COMPILATION	GEOMETRICS
DRAWN	C. Holland

Fig 2





CONTOUR INTERVAL 10 GAMMAS (NT)  
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**Fig 3**