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1. INTRODUCTION

Exploration Licence 7/85 referred to as West Montagu was granted to Savage Resources on the 21st August 1985 and encompasses an area of 176 square kilometres.

Exploration by Savage in the first year of tenure included regional rock chip sampling in conjunction with the selective reassaying of some of the material from Geopeko's augering programs (1982-1983 field seasons). This was followed by reconnaissance ground magnetic traversing of the Northern Domal structure. One magnetic anomaly occurring within the North Eastern paddocks of the "Illawong Plains" property was further defined by detail ground magnetic traversing over the newly established Plowright grid. Late in the season this was followed by a limited bedrock Wacker drilling program.

This year the Plowright grid was extended to the North to incorporate and define a previously outlined magnetic anomaly (fig 3.4, Sept.1986) The base-line was surveyed to Robbin's Beach and a number of East-West lines were established and traversed using ground magnetics.

## 2. DISCUSSION

Between 1981 and 1984 Geopeko was actively exploring the potential of the lower Cambrian carbonate sequences to host replacement deposits of the King Island, Renison Bell and Moina type until their demise in 1984. Exploration activities centred around the Jim's Plains Dome area where Forestry and public roads provided access for geochemical traversing.

Savage's work has been confined to the Northern Domal Structure as defined by the Geopeko Mapping. This area has been selected because:

- (a) The Robbin's Beach RAB traverse of Geopeko showed interesting geochemistry,
- (b) The carbonate units are still present over the domal crest, which potentially assists the prospect of tin mineralisation unlike the situation in the larger Jim Plains Dome,
- (c) The area is still relatively unexplored,
- (d) Although tin search was not the priority aim of the project it made sense to run the ground magnetic trials over areas where a tin deposit was a possibility,
- (e) The area was a convenient size for orientation work.

Our previous work showed up some distinct magnetic anomalies which when sampled with a Whacker device (chosen in respect of the then local farmers sensitivities over the previous RAB drilling) proved to be over an unexpected extension of the volcanics, which are notably fragmental in texture.

Despite the less than optimum size of the Whacker samples for gold work some distinct gold responses were obtained which could be tentatively connected with the magnetic features. Nevertheless the finding of the bedrock geology to be so different to what was expected was disorientating and together with commitments in other areas (Savage River in particular) and hopeful indications that the management of "Illawong Plains" would change led to a recess for several months in exploration effort.

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This year work has continued on the Plowright grid. The baseline has been extended North some eight hundred metres and east-west traverses of varying lengths surveyed to block in the ground between Robbin's Beach and the previous grid.

Magnetic stack profiles of lines 10300 -10800N (Fig 3.0) reveal trends and anomalies similar to the previous data set (Fig 2.0). Anomalies are similar in shape and between 10500 - 10800N trend around  $330^{\circ}$ . Several other anomalies notably 10300E/10500N and 9950E/10800N have no corresponding match on adjacent lines. Anomalies are set within relatively quiet subdued magnetics having a marginal gradient increasing westwards. The abrupt change on the Eastern end of lines 10400 and 10500N could reflect a change in the underlying geology.

The anomalies are consistent with relatively thin, shallow quite strongly magnetic bodies dipping to the south-west. The narrowness of the anomalies indicate that the depth is relatively shallow, in the order of 15m. Their resemblance to the previous data set suggest a similar origin.

The area is close to Geopeko's original auger chip geochemical/geological traverse and while the interpretation of hematitic siltstones and carbonates has not been disproved the magnetic data suggest the extension north of the fragmental basalts. Potential exist for:

- (a) a strike continuation of the gold/magnetic anomaly relation in the fragmental basalts,
- (b) The original hypothesis of gold related to ironstone beds associated with carbonates (c.f. Telfer),
- (c) the development of replacement type Sn-W mineralisation in the carbonates.

Future work envisaged included:

- (a) Magnetic traversing at least on lines 10900 and 1100N with infill work around the known anomalies.

- (b) Airblast or Whacker drilling of
- (i) the magnetic features between 10500 and 10800N,
  - (ii) the gold highs on line 9800N between 10100-103500E and
  - (iii) some orientation lines independent of the magnetics
- (c) an examination of the beach sand deposit at the foot of the sea scarp south of the coastal strand plain as it is thought that this area has a beach placer in which locally derived gold (and perhaps platinoids from farther afield) could have collected.

3.           REFERENCES

Annett, RW.     Sept. 1986

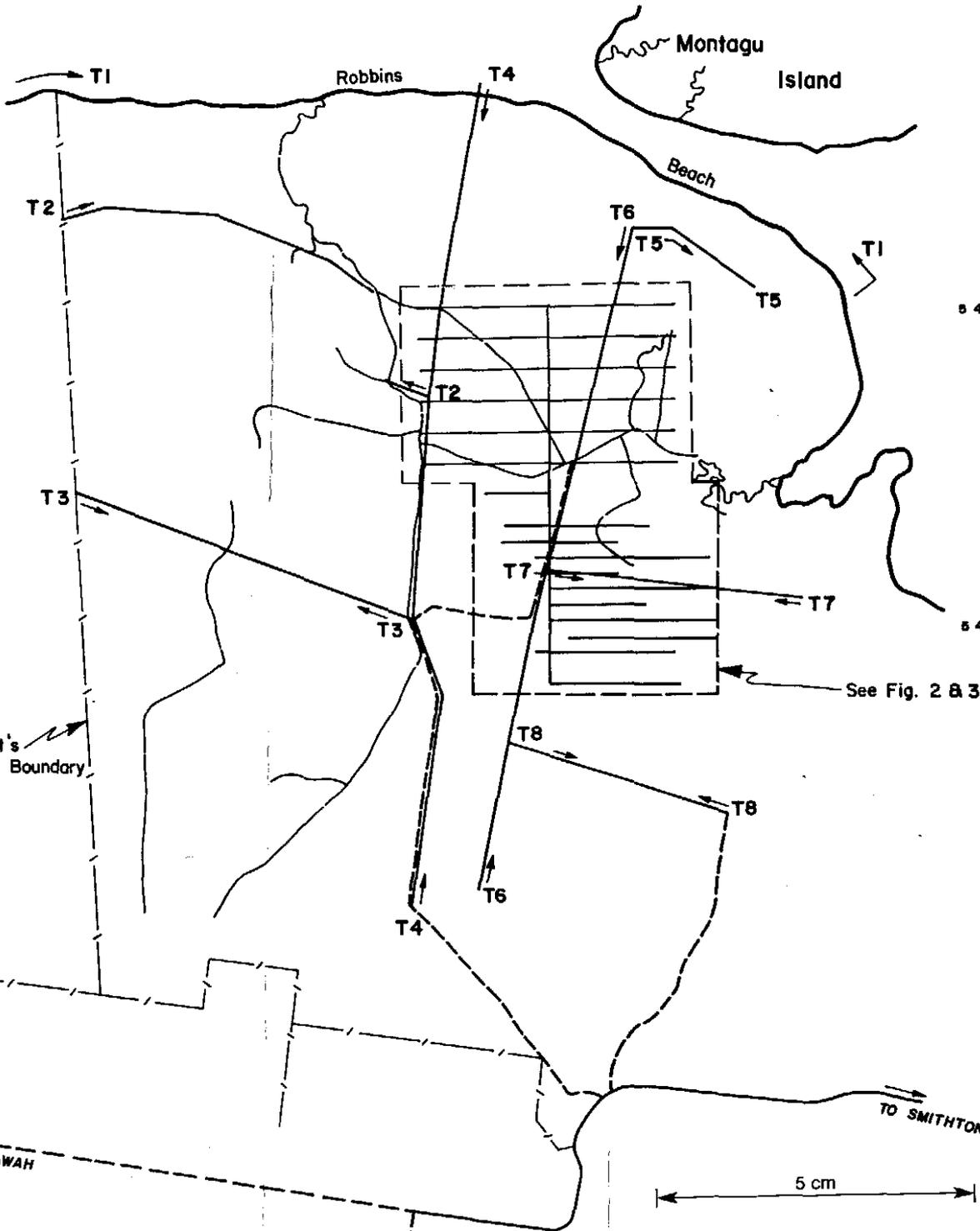
Annual Rep. EL7/85, Montagu

Unpub. rep. Savage Resources.

322 000 mE

ROBBINS

PASSAGE



Plowright's Property Boundary

486 000 mN

485 000 mN

See Fig. 2 & 3

E.L. BOUNDARY 7/85

TO MARAWAH

TO SMITHTON

5 cm

483 000 mN

TO JIMS PLAIN

324 000 mE

874009

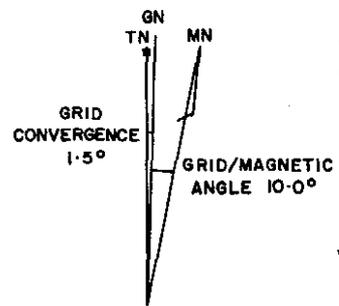
87-2714

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E.L. 7/85

NORTHERN DOMAL PROSPECT  
 RECONNAISSANCE MAGNETICS  
 AND  
 DETAILED MAGNETICS

DRAWN BY	I.R.A.
DRAFTSMAN	T.G.D.S.
DATE	1 Sept. '85
REVISIONS	
FILE NO.	



SCALE 1:20,000

2000 0 2000 4000 METRES

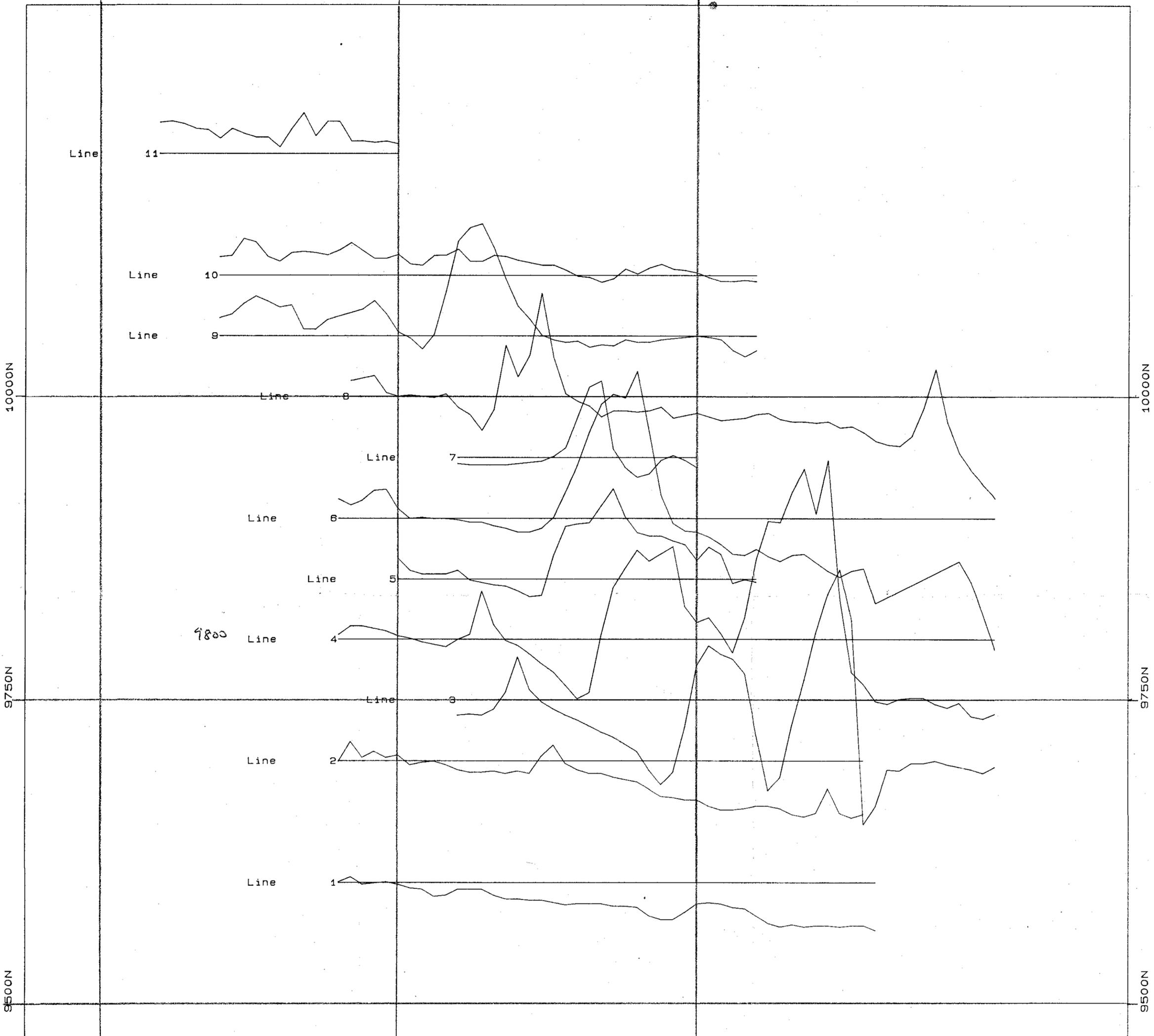
FIG. 1-0

010

9750E

10000E

10250E



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 PLOWRIGHT, E.L. 7/85 (JOB NO.631C)  
 Map scale is 1: 2500.

87-2714  
 MAGNETICS STACK PROFILE

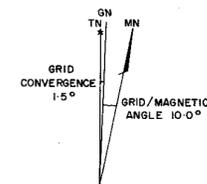
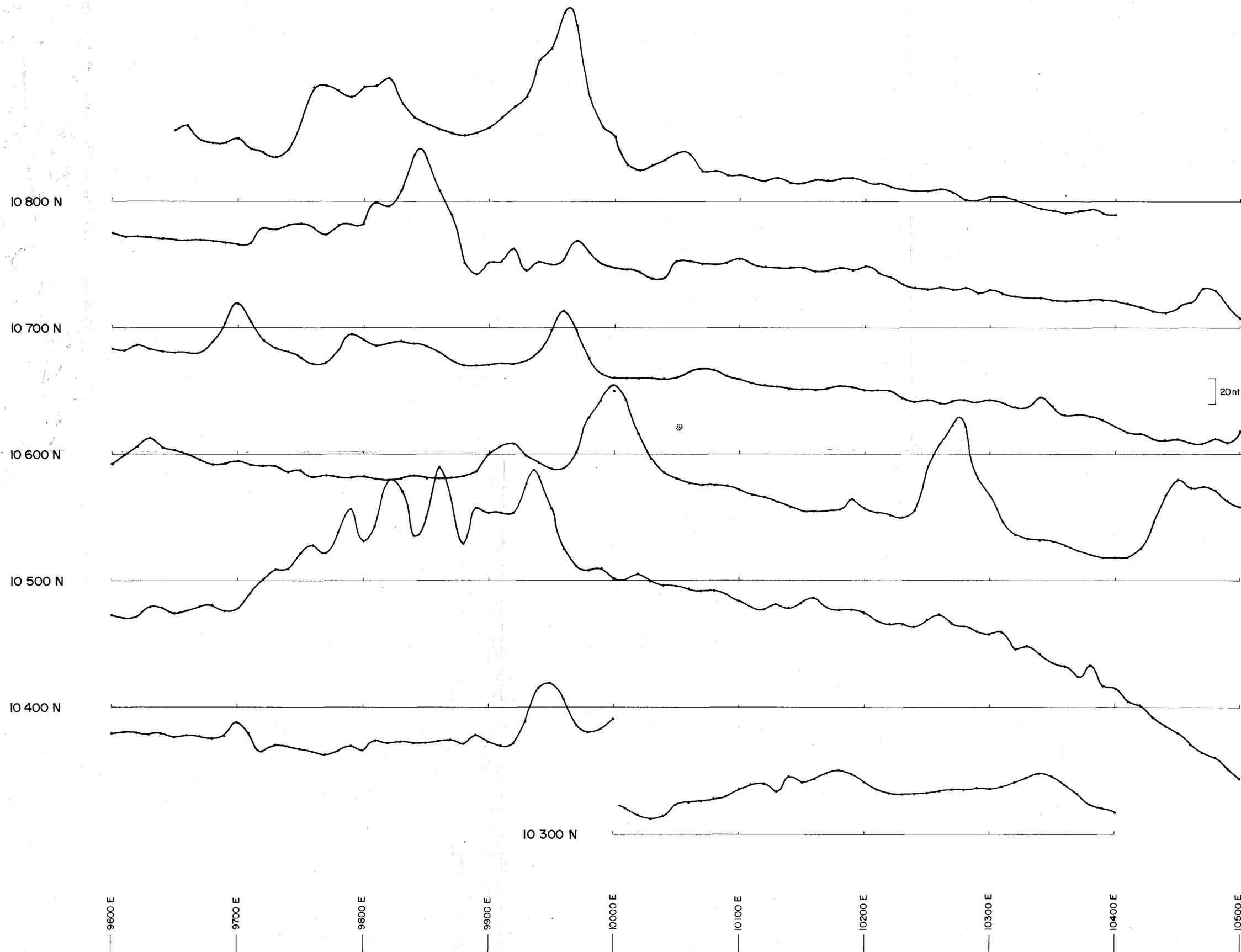
Magnetics scale : 1cm= 25. nT Magnetics base value is 61900. nT  
 Plotted on 12:20 PM TUE., 23 SEPT, 1986 by Solo Geophysics  
 Surveyed by Savage Resources Ltd. From 180786 to 190786

61950  
 61925  
 Base=61900 nT  
 61875  
 61850

5 cm

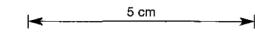
874010

FIG. 2-0



NOTES:  
 MAGNETICS SCALE : 1cm = 20nT  
 MAGNETICS BASE VALUE IS 61900nT  
 SURVEYED BY SAVAGE RESOURCES 120687 to 140687

874011



SAVAGE RESOURCES LIMITED 87-2714	
MONTAGU, N.W. TASMANIA	
PLOWRIGHT, E.L. 7/85	
(JOB NO. 631C)	
MAGNETIC STACK PROFILE	
SCALE 1:2000	FILE NO.
	FIG. 30

DRAWN BY : R.A.  
 DRAFTSMAN : T.G.D.S.  
 DATE : Sept. '87  
 REVISIONS :  
 \_\_\_\_\_  
 \_\_\_\_\_

874012

5 cm

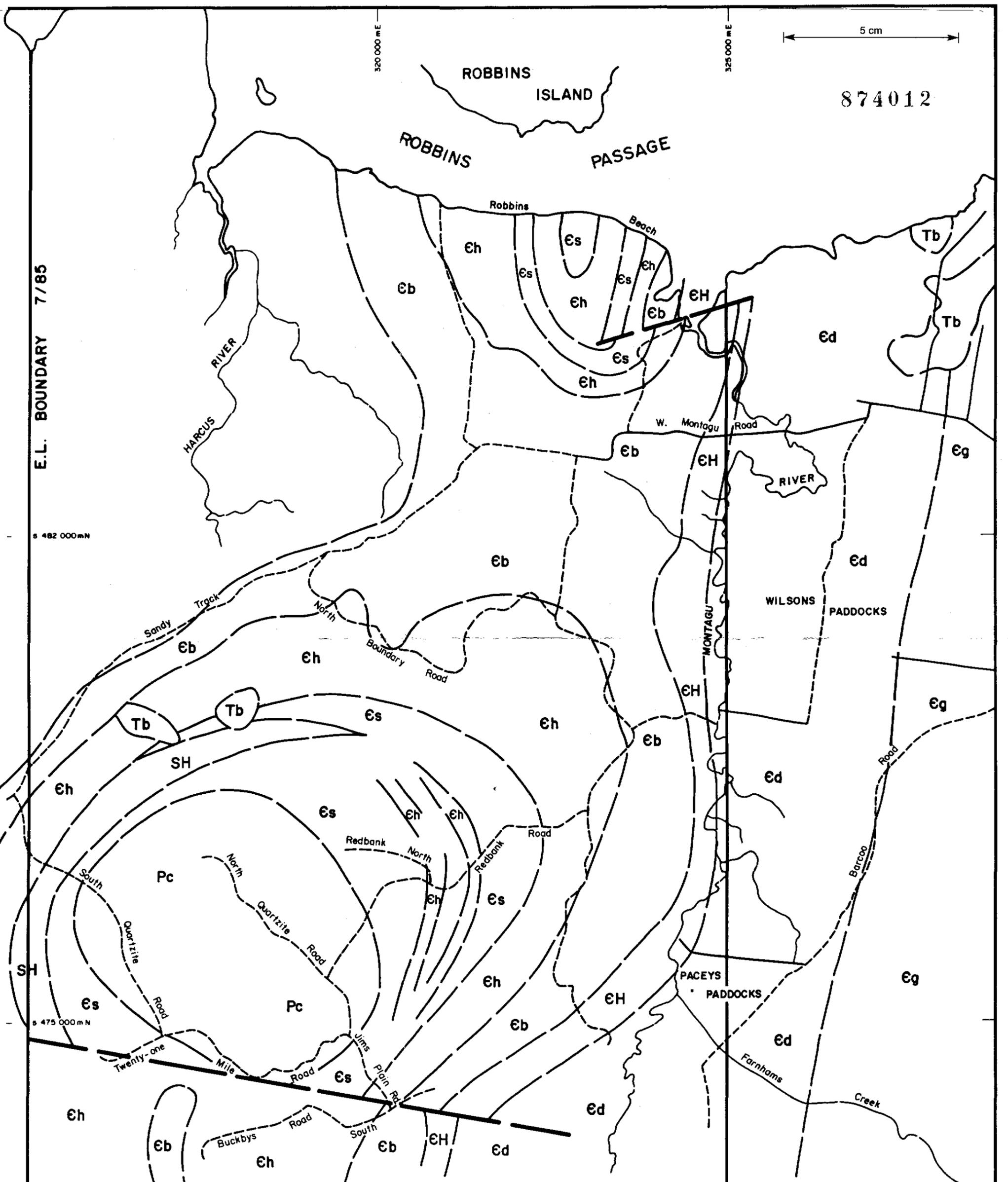
320 000 m E

325 000 m E

E.L. BOUNDARY 7/85

5 482 000 m N

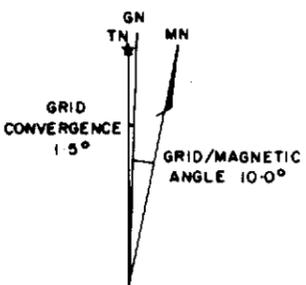
5 475 000 m N



LEGEND

TERTIARY	Tb	BASALT
	Eg	CONGLOMERATE, GREYWACKE, SILTSTONE
CAMBRIAN	Ed	DOLOMITE, SHALE, TUFF
	EH	HEMATITIC SILTSTONE
	Eb	BASALT, AGGLOMERATE, TUFF
eo CAMBRIAN	Eh	HEMATITIC SILTSTONE
	SH	SILIFIED CARBONATE, BLACK SHALE
Pre CAMBRIAN	Pc	QUARTZITE AND SILTSTONE

- BITUMEN ROAD
- - - DIRT ROAD
- ~ CREEK



E.L. BOUNDARY 7/85

eo CAMBRIAN

Pre CAMBRIAN

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WEST MONTAGU	
GEOLOGY	
DRAWN BY : R.A.	DRAFTSMAN T.G.D.S.
DATE : Sept 85	REVISIONS :
FILE NO.	FIG. 4.0
SCALE 1:50,000	