

WOLSTON DEVELOPMENTS PTY LTD

EXPLORATION LICENCE 6/88 - MT. HOLLOWAY

RELINQUISHMENT REPORT

90-3154

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NOTE

LICENCE NOT  
BEING RENEWED  
On 22-8-90

OPEN FILE

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JULY 1990

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### Introduction and Tenement Information

Exploration Licence 6/88 is a 133 square kilometre tenement covering the headwaters of Eighty Creek, the Leigh River and the Toner River. It also includes Mounts Holloway, Hadmar, Edith and Judith (Figure 2). The licence is owned by Wolston Developments, a wholly-owned subsidiary of Amatek limited.

The area is approximately:

71%	Arthur Pieman Protected Area
26%	State Forest
3%	Uncommitted Crown Land

Also 85% is within the Norfolk Range Australian Heritage Act Interim Listing.

The proposed West Coast Link Road was designed to go through the exploration licence but the project has been postponed. At the moment the Sumac Road and associated spur roads intersect the North-Eastern part of the licence area. There is also a cut track from the end of the Sumac Road to the Eastern boundary of the exploration licence in the vicinity of the former Copper Reward workings.

Some of the mountain slopes and ridges are open and carry a low, scrubby vegetation but on the whole, the vegetation is thick scrub making progress very slow and helicopter access necessary.

### Exploration Philosophy and Objectives

The objective was to explore for mineralisation associated with the major faulting patterns. Granitic intrusions are known in the area, e.g. the Pieman Heads and suspected at Balfour. They are also suspected as the heat source for the formation of the silica flour at Corinna from the parent Dolomite.

### Initial Exploration

Stream sampling was carried out over the whole area with no meaningful results being obtained. Anomalous Rare Earth readings were obtained but there were no usable figures for silver, gold or base metals.

Occasional samples from the Copper Reward diggings have visible chalcopyrite and detectable gold. There was also measurable copper in the soil nearby but nothing in the stream sediment 100 metres away. It was concluded that stream sampling would be of no value probably because of the large amounts of water flowing in them in winter and that soil and rock chip sampling would have to be used.

This work is contained in the earlier submitted report by Longworth and McKenzie.

### Soil and Rock Chip Sampling

To test the possibility of using soil and rock chip samples, a grid was cut around the former Copper Reward diggings. Soil and rock chip samples were taken and analysed for gold, copper and arsenic. Anomalous gold and copper values were found and a basic geophysical programme was carried out to try and define any potential ore bodies.

There are numerous magnetic anomalies aligned to the strike of the rock which are probably related to magnetite enrichment or depletion. A massive sulphide anomaly was located above the former Copper Reward diggings. Disseminated sulphides were not investigated in the first geophysical investigation.

This work is contained in the report prepared by Mitre Geophysics.

### Subsequent Exploration

Further geochemical and geophysical work could have been carried out but it was considered that the next logical step was to drill the sulphide anomaly and the magnetic anomaly so that the surface indications could be interpreted.

Unfortunately, Wolston Developments' parent company elected only to fund exploration for construction materials and the drilling was not carried out. An attempt was made to find a partner to carry out the drilling but all of the exploration companies approached considered it too much of a greenfields venture in a geological province with no known history of economic mineralisation.

### Further Activity

As the exploration cannot be continued, the exploration licence is being relinquished.

The Copper Reward workings are on the Eastern boundary of Exploration Licence 6/88 and extend into the former Exploration Licence 34/85.

It is considered that there is enough information to put down 2-5 drill holes and that this is the next logical step before carrying out further geophysical or geochemical work to define other drill targets or to reduce the area.

*B.R. Harrison*

B.R. Harrison

LIST OF FIGURES

- Figure 1. Exploration licence 1:250,000
- Figure 2. Exploration licence 1:100,000
- Figure 3. Exploration licence 1:50,000

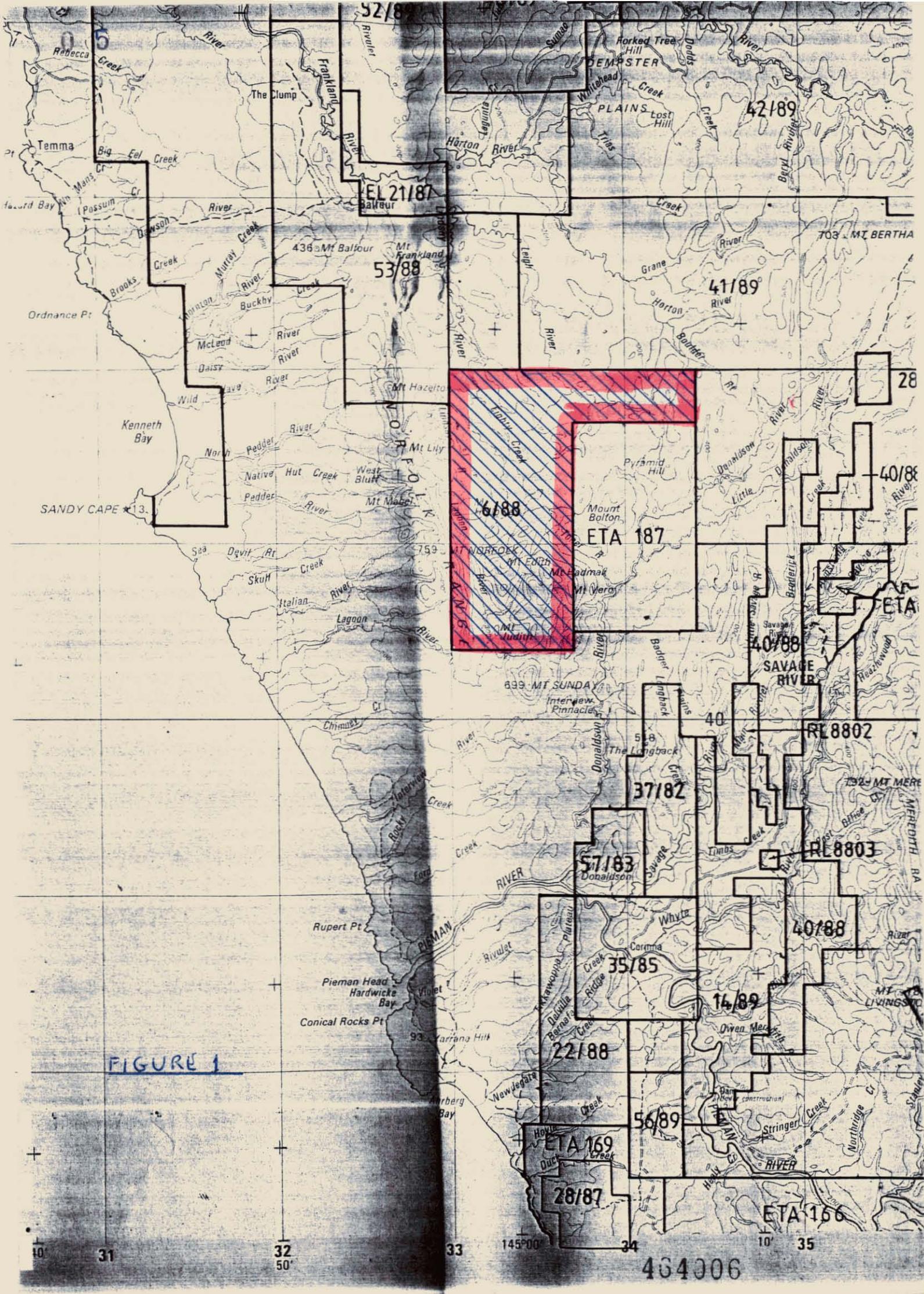


FIGURE 1

10 31 32 50 33 14500 34 10 35 464006

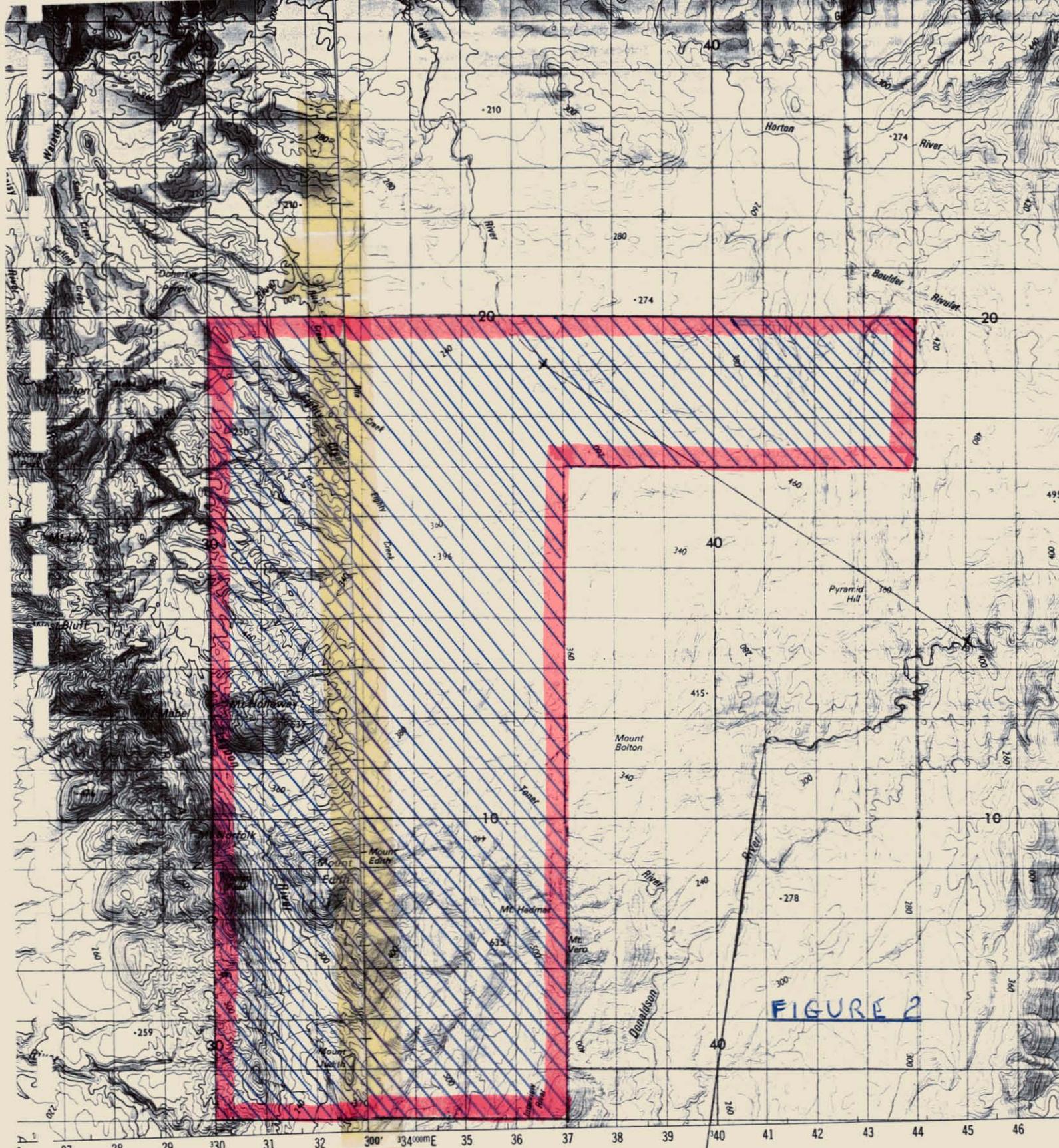


FIGURE 2

PRINTED BY ROYAL AUSTRALIAN SURVEY CORPS, 1983.  
 DEF/ARMY/11981 S/1880/76

PRODUCED by the Survey Branch, Lands Department, Hobart, 1978  
 NOMENCLATURE: Topographic names on this map have been approved by the Nomenclature Board of Tasmania.  
 MAP ACCURACY: the average accuracy of this map is  $\pm 25$  metres in the horizontal position of well defined detail and  $\pm 5$  metres in elevation.  
 MAP RELIABILITY: Topographic information shown on this map is correct to 1977  
 ROAD CLASSIFICATION: Roads are classified according to their intended function as part of the national road system.  
 The representation of a road or track on this map is no evidence of the existence of a right of way.

Kilometres

INDEX TO ADJOINING MAPS

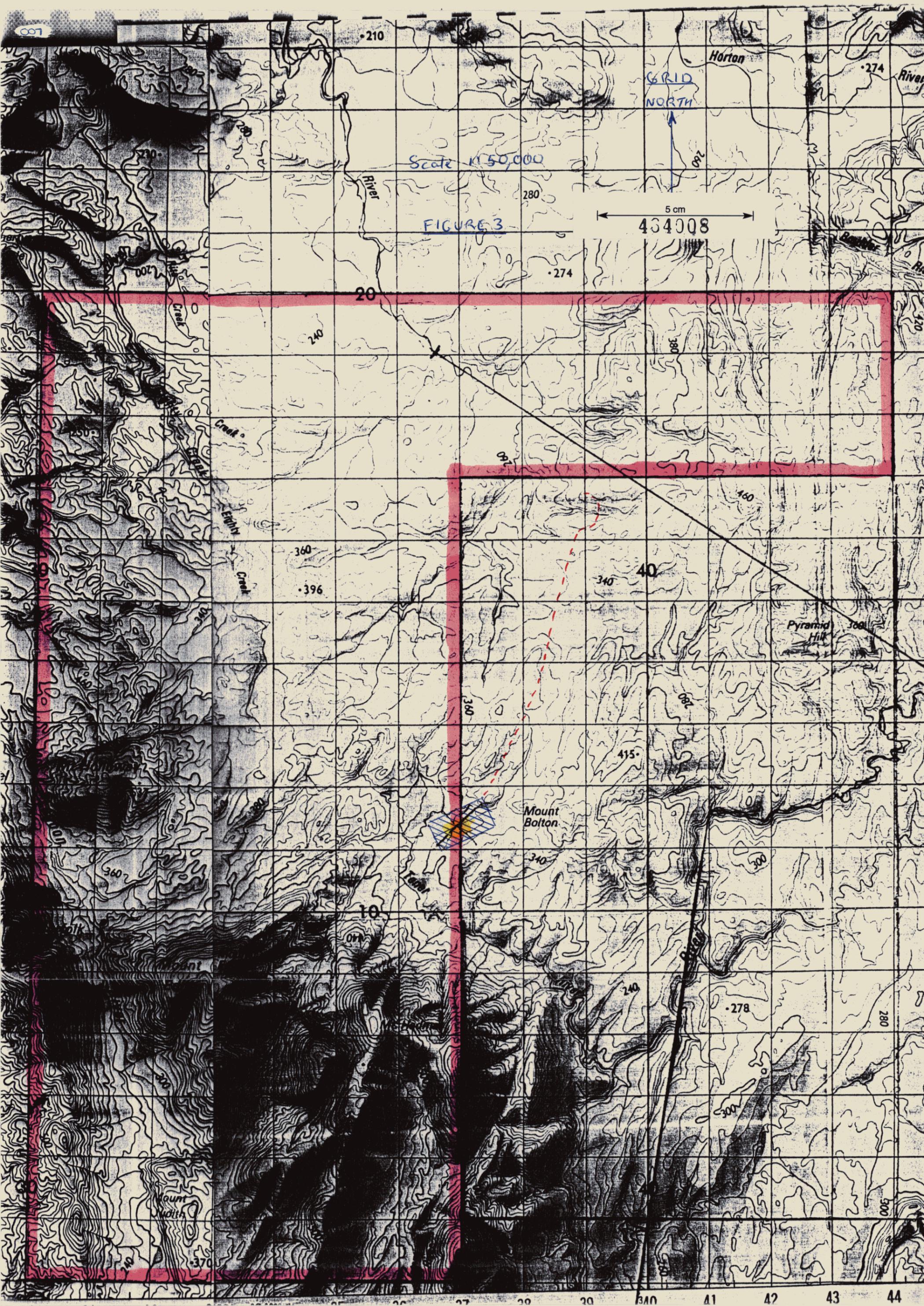
SOUTHERN	WELCOME 7818	CIRCULAR HEAD 7816
	SANDY CAPE 7815	ARTHUR RIVER 7915

UNIVERSAL GRID REFERENCE  
 BEFORE GIVING A GRID REFERENCE, CIVILIAN USERS  
 SHOULD STATE THE NUMBER AND NAME OF THIS MAP:  
 7915: ARTHUR RIVER

464007

06

IAF publication



210

Horton

274

GRID  
NORTH

Scale 1:50,000

FIGURE 3

5 cm

434008

20

274

240

380

Creek

360

460

Creek

360

40

396

340

Pyramid Hill

360

Mount Bolton

340

10

240

278

280

Mount

370

300

300

40

41

42

43

44

Key to Figure 3



Exploration Licence Boundary



Copper Reward Diggings



Toner River Grid



Cut Track

## References

- Anonymous, 1988 Exploration programme, North West Tasmania  
Longworth & McKenzie report for Monier Limited
- Bishop, J. 1989 Geophysical survey over the Toner Grid  
E.L.'s 34/85, 6/88 for Wolston Developments
- Ward, L.K. 1911 The Mount Balfour Mining Field,  
Geological Survey Bulletin No. 10