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**AMDEX MINING LIMITED**

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GIPPSLAND MINERALS N.L., KIBUKA MINES PTY. LTD.

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TECHNICAL REPORT

**OPEN FILE**

EXPLORATION LICENCE 6/78

WINNALEAH

REPORT FOR THE SIX MONTHS ENDING  
OCTOBER 13, 1980.

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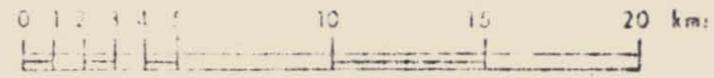
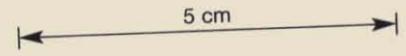
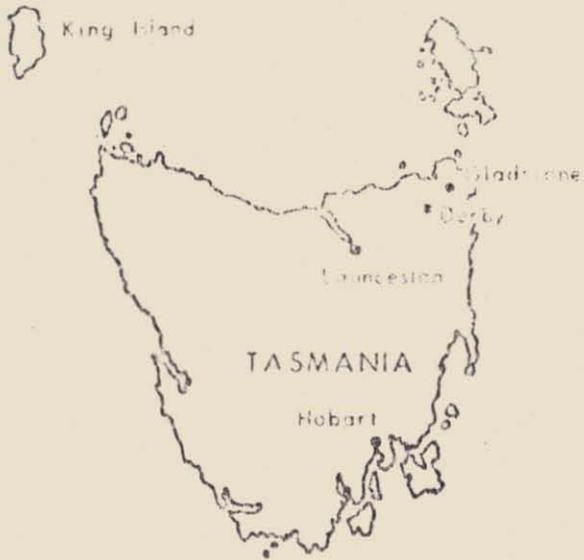
1. Locality Map showing E.L.6/78, Winnaleah, N.E. Tasmania.
2. Geological Map of E.L. 6/78. - TRANSPARENCY HELD  
IN VERTIPLAN UNDER 80-1454

## 1. INTRODUCTION

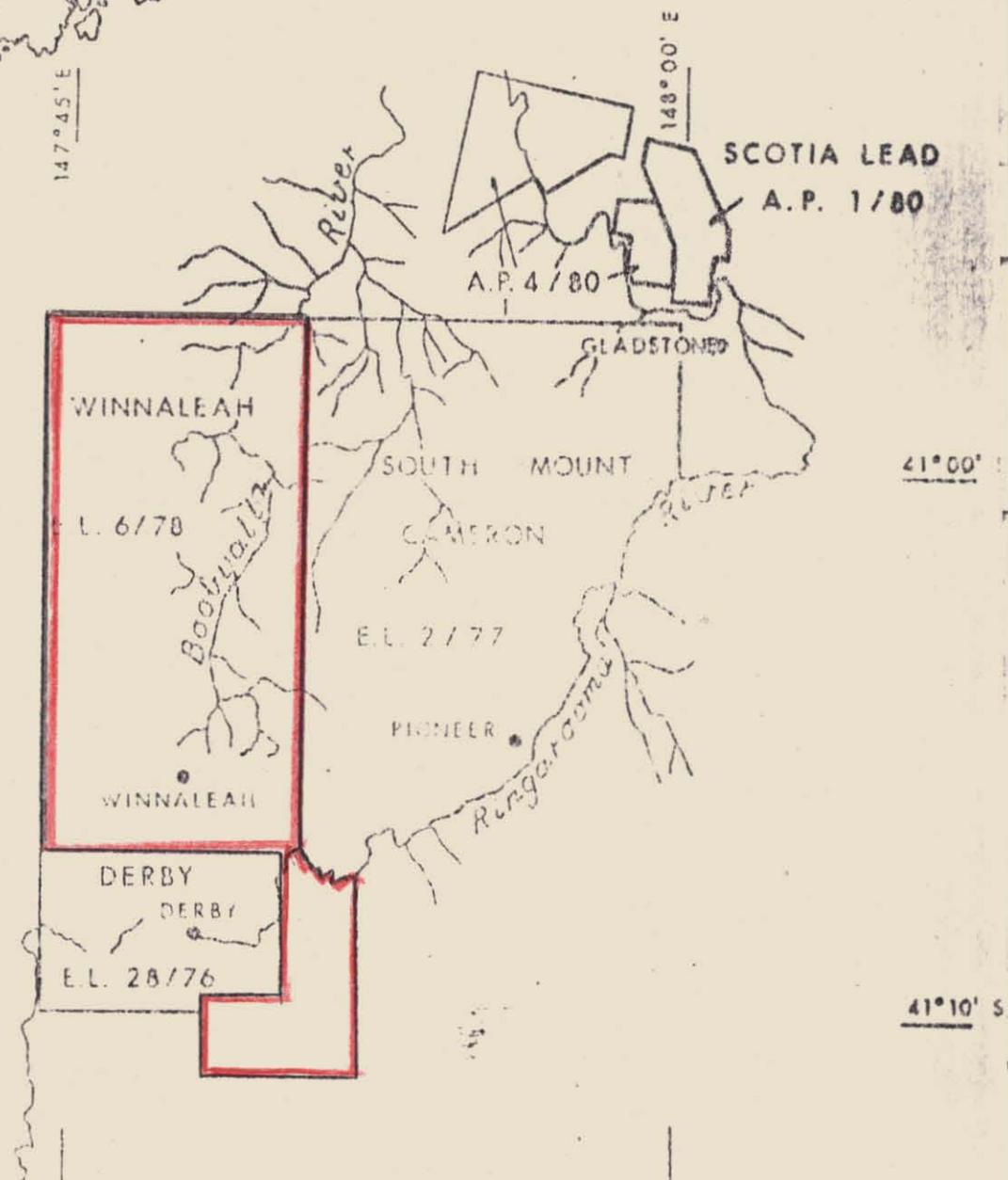
Exploration Licence 6/78 covers an area of 203 square kilometres ( Figure 1 ) which was granted to Kibuka Mines Pty. Limited in April 1978 and has been renewed for successive six monthly periods until the 13th October 1980.

This report deals with all exploration activities conducted within the E.L. area between the 13th April 1980 and the 13th October 1980. The company's policy of systematically conducting detailed field work and literature research, prior to either sequentially drilling or relinquishing each target area within the E.L. has been followed and to date approximately half the E.L. area has been covered to this first level of exploration.

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Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

Author	File	Orig. No.
Drawing	Project No.	

Fig 1

## 2. CONCLUSIONS AND RECOMMENDATIONS

1. The chances of finding viable hard rock or placer mineralization south of the Ringarooma River are extremely low.

2. The chance of finding a viable easterly extension to the Warrentinna goldfield is extremely low.

3. As a result of 1) and 2) it has been recommended that the portion of E.L. 6/78, south of grid co-ordinate 5449000 metres north be relinquished.

4. Reasonable potential exists for finding two main types of deposits within the remainder of the E.L.

a) Discrete cassiterite placers in gutters at the base of Mount Horror and Little Mount Horror.

b) Extensive low grade tin/gold placers within alluvial plain sediments of the Boobyalla Valley.

### 3. CURRENT EXPLORATION

#### 3.1 Area south of the Ringarooma River

A reconnaissance of the heavily forested hills, which constitute most of this part of the E.L. ( Figure 2 ) was completed.

The aim of this work was to assess the potential for occurrences of either primary vein/greisen deposits or small placers contained in proximal gullies of the Cascade River and Main Creek drainage systems. The lower reaches of the Cascade River and Main Creek, plus that section of the Ringarooma River in E.L. 6/78 are already held under Miners Rights by various local miners.

The exposure of any hard rock mineralization which may occur in the area is largely dependent upon the road-making and burning activities of the loggers. Such activities have exposed bedrock to the south and east of E.L. 6/78, but to date there has been little activity within the E.L. area.

A variety of granitic rock types were examined in road cuttings and creeks and all exposures were checked for radioactivity with a portable Geiger-Muller Counter, however, no evidence of hard rock mineralization was encountered.

Although traces of cassiterite can be panned from alluvial sediment in most creek banks within the area, and old shallow workings exist south of the Cascade Dam and beside some upper tributaries of Main Creek, there appears to be no significant accumulations of sediment in any of the gullies. In addition, the terrain is rugged, access is difficult and natural water storage facilities are very poor. When all these facts are considered it is clear that the potential for a viable placer operation is extremely low.

It is considered that within the context of the company's present aims and capabilities, no further work is warranted in this area.

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### 3.2 Warrentinna Goldfields

The eastern edge of the Warrentinna Goldfield is covered by E.L. 6/78 ( Figure 2 ) and the remains of an old lode gold mine ( Kerrisons Mine ) have been located, approximately at grid co-ordinates 65850mE, 448400mN ( Ringarooma 1:50,000 sheet ). This area is part of a farm owned by Mr. W. Payne of Derby. The main shaft, estimated by Payne to have been more than 50 metres deep and many prospecting holes have been filled during development of the farm. The only remaining entrance is to a drive which has collapsed about 4 metres from the entrance. Fragments of quartz-veined Mathinna Group rocks are abundant around the mine site and in a creek downslope from the mine. No mineralized quartz was found, however, small amounts of detrital gold have been recovered from the creek by the Payne family, below the former site of a stamping battery. No records of Kerrison's Mine have been located in the Mines Department Library and the only other recorded mine in the area ( 64700mE, 450350mN ) could not be confirmed in the field.

At this stage there is no sound basis for conducting further exploration in the area.

### 3.3 Boobyalla Drainage Basin

A prospecting programme is currently underway in the Boobyalla Valley, downstream to, and including the Banca area. Potential targets in this programme are :-

- a) Extensive shallow tin and gold deposits in river flat sediments, suitable for a dredging operation.
- b) Localized tin and tin/wolfram placers at the base of Mount Horror and Little Mount Horror.

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At Gellibrand Plains, traces of cassiterite, spinel, zircon and gold were recovered from hand augered samples. These are fluvial sediments deposited by upper tributaries of the ancestral Boobyalla River. The area of interest is a valley-fill alluvial plain with drainage channels feeding in from the south over Mathinna Group rocks, including some Warrentinna gold lodes, and from the north over Mount Horror granites.

Although samples have generally yielded very low grades of heavy mineral, at one locality, sediment uprooted by a fallen tree yielded four specks of gold plus several grains of cassiterite and spinel from a sample of approximately three litres. A local resident stated that gold was recovered from the river flats during the 1930's.

Tertiary and/or Quaternary upper fan and stratified slope deposits of angular vein quartz and quartzite gravels at the eastern margin of the Gellibrand Plains show traces of very fine zircon and gold, however even at the base of these gravel units, at their contact with underlying Mathinna Group rocks, the heavy mineral grades are extremely low.

Further prospecting of alluvial flood plain sediments and gravels around an area centred at grid co-ordinates 65800mE, 435600mN has produced no mineralization.

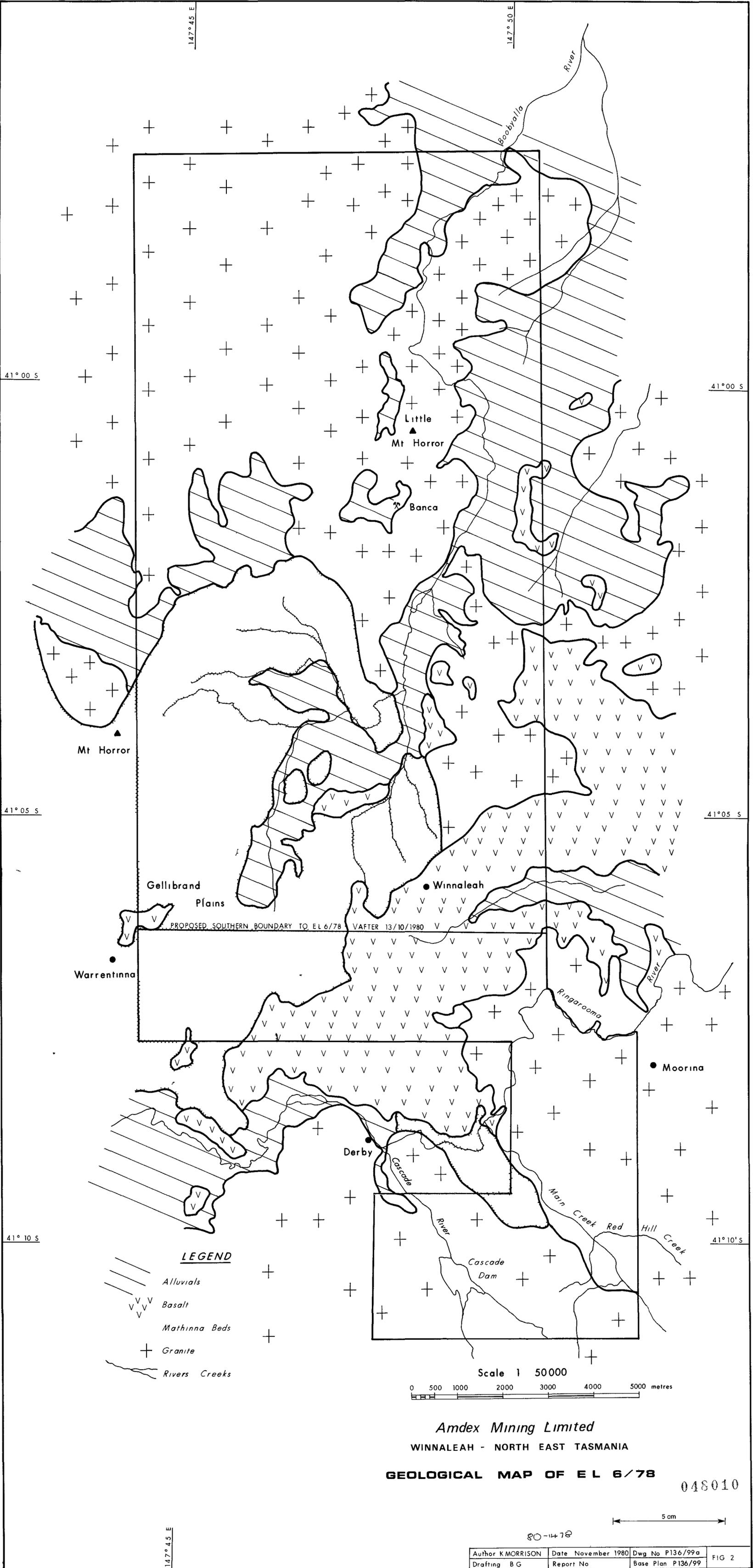
This programme is on-going and during the summer, it is planned to traverse and sample the creeks draining the eastern flanks of Mount Horror.

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#### 4. FUTURE EXPLORATION

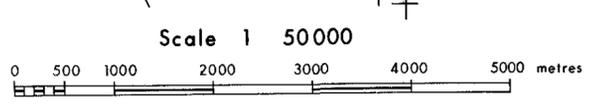
The following projects will be undertaken in the next six monthly period.

- 1) Continuation of the prospecting programme down the Boobyalla Valley.
- 2) A detailed evaluation of previous drilling in the Banca area.
- 3) A summer programme of stream sediment sampling on the eastern flanks of Mount Horror.
- 4) Prospecting on the north-eastern foothills of Mount Horror where forestry activities have exposed Mathinna Group bedrock and shallow alluvial/eluvial deposits.
- 5) Drilling and/or backhoe sampling of any promising targets defined by the preliminary work.



**LEGEND**

- Alluvials
- Basalt
- Mathinna Beds
- Granite
- Rivers Creeks



**Amdex Mining Limited**  
 WINNALEAH - NORTH EAST TASMANIA  
**GEOLOGICAL MAP OF EL 6/78** 048010

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Author K MORRISON	Date November 1980	Dwg No P136/99a	FIG 2
Drafting BG	Report No	Base Plan P136/99	