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EXPLORATION LICENCE 2/85

NORTH HEEMSKIRK, TASMANIA

REPORT FOR PERIOD AUGUST 11TH, 1985 - MAY 10TH, 1986

AND FINAL REPORT

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1. INTRODUCTION

Exploration Licence 2/85 (North Heemskirk) of 91 square kilometres was granted on May 10th, 1985 to Gippsland Oil & Mineral NL. The Department of Mines were advised on 22nd/April/1986 that Gippsland wished to relinquish the licence at the end of the term, viz, 10th/May/1986. The licence was consequently held for twelve months only.

2. LOCATION OF AREA

The licence area forms an elongate zone extending from near Zeehan to Granville Harbour, on the west coast of Tasmania. (Fig 1.)

3. CONDITIONS PERTAINING TO EL 2/85

The area of EL 2/85 was relinquished from EL 47/71 with the same conditions of expenditure and expiry being transferred from EL 47/71 to EL 2/85. Hence, the Mines Department advised at granting that EL 2/85 would expire on 12/Dec/1987 and would incur an expenditure commitment of \$500/sq km (i.e. \$45,500/annum for 91 sub-blocks).

Such conditions necessitated that a special approach to exploration be undertaken, viz,

- (i) identification of prospects with high mineralisation potential
- (ii) grid drilling to bring any mineralised zones to ore reserve status (if justified).

3. CONDITIONS PERTAINING TO EL 2/85 continued....

Regional exploration was thus necessarily restricted.

4. BASIS OF APPLICATION

As noted, the area was previously held under EL 47/71 which formed part of a joint venture between Aberfoyle Resources Ltd. and Gippsland Oil & Minerals NL, with Aberfoyle as Operator.

While EL 47/71 was explored extensively by Aberfoyle, particularly with geophysical coverage of the entire tenement area, Gippsland considered that ground evaluation of title area had been inadequate. Many major anomalous areas also required further assessment.

5. GEOLOGICAL SETTING

The licence area straddles the northern contact of the Devonian Heemskirk Granite with the Pre Cambrian Oonah Quartzite and Cambrian Crimson Creek Formation. Within the Precambrian, dolomitic horizons occur and these have been metamorphosed and metasomatised to skarn units by the Heemskirk Granite. This intrusive is the source of tin (tungsten) and base metal (Pb-Ag-Zn-Cu) mineralisation, including Queen Hill, Severn and Montana bodies. Several tin prospects have been located in the North Heemskirk area such as the St. Dizier-Central Anomaly-Big H Zone, Donnelly's and Twelve Mile Creek. A small tin resource has been drilled out at St. Dizier on mineral lease held by Apollo-Renison joint venture.

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5. GEOLOGICAL SETTING Continued...

Most of the tin occurrences are skarn related mineralisation. A substantial amount of alluvial tin has been recovered from sections of the Tasman River and minor tin occurrences have been found in greisen patches at the margins of the intrusive body.

Jurassic dolerite covers large areas in the north-east of the tenement and remnants of Tertiary basalt flows occur on topographic highs to the north-west. Large areas are also covered by Tertiary quartz-rich gravels and unconsolidated sediments.

6. WORK UNDERTAKEN

The following work was undertaken during the title year:

(i) Review of Past Exploration

All previous data pertaining to the area were reviewed in considerable detail. A number of major anomalous zones were identified for field investigations

viz: Donnelly's  
St. Dizier Zone  
Twelve Mile Creek  
Tasman River Zone  
Silver Stream  
Dighem anomalies 228 C & 229 A  
Junction anomaly  
North West and Granite anomalies

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6. WORK UNDERTAKEN Continued...(ii) Field Studies

Each of the major zones identified in (i) were examined.

It was concluded that none of the above warranted detailed follow-up for one or more of the following reasons:

- (a) Adequately explored, target not viable:- Donnelly's
- (b) Target area host rocks not suitable for medium - large deposit:- St. Dizier, North West and Granite anomalies
- (c) Anomaly too deep/high risk factor:- Junction anomaly
- (d) Targets poorly defined/possible spurious:- Dighem, Tasman River zone
- (e) Mineralised zones too thin for viable body:- Twelve Mile Creek, Silver Stream.

In addition, surface examination was undertaken of a large portion of the eastern part of the licence area, particularly in newly exposed areas adjacent to recent road development. While a number of pyritic rich areas were observed no base metal or tin mineralisation was detected. Areas immediately south of the abandoned Eureka tin mine may be worthy of follow-up work.

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6. WORK UNDERTAKEN Continued...(iii) Summary

Review of previous exploration and defined anomalous areas did not reveal any target areas worthy of detailed drill testing. As a consequence, Gippsland decided to relinquish the area as soon as practical.

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7. EXPENDITURETotal Expenditure for Term May 11, 1985 - May 10, 1986

Salaries: - Geological	:	15,540.00
- Tenements/Local	:	1,150.00
Consultants - Technical	:	400.00
Contract Personnel	:	38.06
Travel & Accommodation	:	1,184.05
Sundry Equipment & Supplies	:	271.43
Survey & Gridding	:	75.00
Overheads	:	2,798.78
		<hr/>
TOTAL	:	\$ 21,457.32

600996

145° 10' E

20'

70

Granville Harbour

EXPLORATION LICENCE 2/85  
(North Heemskirk)

91 km<sup>2</sup>

Mount Heemskirk

SOUTHERN  
OCEAN

5360 000 mN

Mount Agnew

ZEEHAN

5 cm

41°55'S

0 1 2 3 4 5 km

Trial Harbour

AMG  
NORTH

800

3 40 000 mE

50

60

