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**OPEN FILE**

E.L. 21/86 - HOWARD'S ROAD  
REPORT ON EXPLORATION FOR THE PERIOD  
JAN. 1991 TO DEC. 1991  
RELINQUISHMENT REPORT

APPROVED BY  
 [Signature]

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December, 1991.

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FIGURES - IN TEXT

<u>Fig.</u>	<u>Title</u>	<u>Scale</u>
1	Location Plan	1:250,000

PLANS - IN FOLDER

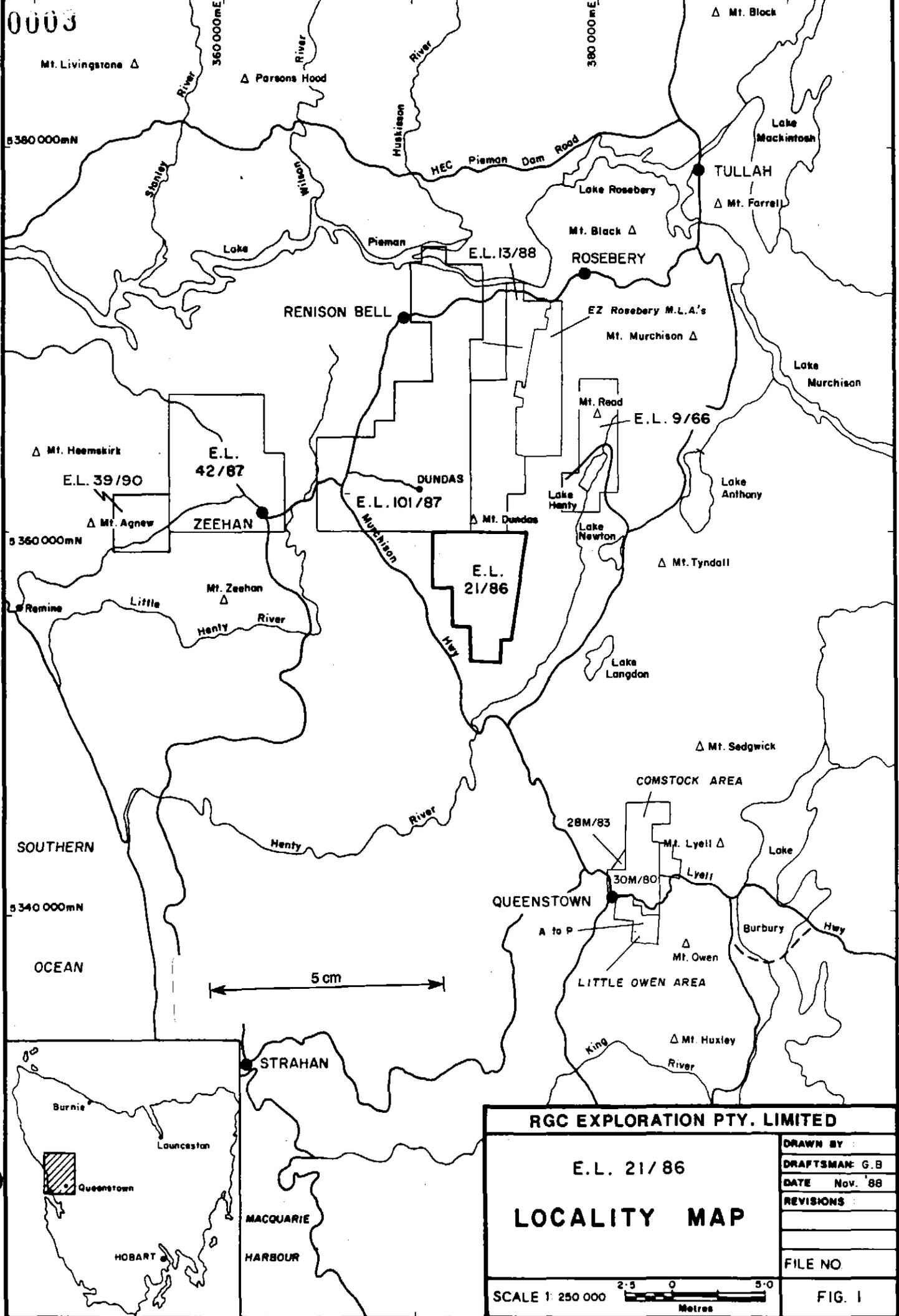
<u>Plan</u>	<u>Drq. No.</u>	<u>Title</u>	<u>Scale</u>
1	5520/001	Geological Interpretation	1:5,000

1. INTRODUCTION

E.L. 21/86 was acquired early in 1987 because of its perceived potential for Henty-style gold mineralisation along the possible southern extension of the Rosebery Fault and/or the western extension of the North Henty Fault. Previous explorer C.S.R. had obtained anomalous gold values in pan concentrate samples from the southern part of the E.L. but had not systematically followed up the anomalies.

The E.L. covers 22 sq. kilometres of mountainous, rainforest covered terrain on the southern flanks of Mt. Dundas. The area is dominated by Cambrian sediments and volcanoclastics of the White Spur Formation (Dundas Group) in faulted contact with Cambrian gabbros and andesitic volcanics of the Cambrian Henty River Sequence. The North Henty Fault forms the contact, which is often marked by the presence of ultramafics. Moderately extensive fluvio-glacials cover much of the Cambrian units, and a combination of these and extensive forest cover has resulted in a generally poor understanding of the structural geology of the area.

RGC Exploration (RGCE) began exploring the tenement late in 1987, and continued through to 1989. Results of all phases were generally discouraging.



<b>RGC EXPLORATION PTY. LIMITED</b>	
E.L. 21/86	
<b>LOCALITY MAP</b>	
DRAWN BY :	
DRAFTSMAN: G.B	
DATE Nov. '88	
REVISIONS :	
FILE NO	
SCALE 1: 250 000	
Metres	
FIG. 1	

## 2. SUMMARY OF EXPLORATION BY RGC EXPLORATION

- 1986/87; Stream sediment data collected by previous explorers McIntyre Mines and C.S.R. was plotted onto 1:5,000 sheets, and reviewed. The C.S.R. programme was supplemented by an additional 60 stream sediments of minus 80# collected by contractor Roger Poltock. Results were disappointing. Ref. Roberts (1987).
- 1987/88; 20 line - kilometres of grid was established at 25 x 400m spacings, perpendicular to interpreted strike of the North Henty Fault. Detailed geological mapping and rock chip sampling was conducted over the grid, with disappointing results. A dipole-dipole IP survey at 25m spacings (n = 6) was initiated, but had to be abandoned after 7.4 line-km because of spurious readings. Ref. Cartwright (1988).
- 1988/89; A ground magnetic survey was completed over the grid, and the abandoned 1987/88 IP survey was also completed. The IP survey delineated significant chargeability/resistivity anomalism in the vicinity of the North Henty Fault. Patchy magnetic anomalism occurred in the same area. Ref. Crossing (1989).
- 1989/90; A 25m x 100m infill grid was established to cover the most significant IP anomaly on the North Henty Fault, and further west the Fault was covered by a 25m x 200m infill grid. Detailed mapping was completed over both infill grids, and the 25m x 100m infill grid was wacker bedrock sampled at 10m intervals.

All samples were submitted for multi-element analysis (AAS, XRF, NAA), however only weak Zn anomalism was noted. Ref. Crossing (1990).

3. CONSTRUCTION AND REHABILITATION

Access was provided by existing roads including the HEC maintained Howards Road. The only work of an environmentally sensitive nature undertaken by RGC Exploration was the construction of the grids, and a limited wacker geochemistry programme. All this work was conducted within environmental guidelines and no rehabilitation is required.

4. WORK COMPLETED 1990/91

Work was limited to a review of all data, and the attendance by a number of company geologists of an AMIRA sponsored excursion that included a structural traverse of Howards Road, (AMIRA Project P.291, Report No. 2). Some sites were also revisited by company geologists during a company organised tour and review of the Mt. Read Volcanics.

No further field work was undertaken.

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5. CONCLUSIONS

Work completed to 1990 had failed to locate any targets worthy of drilling. The gold anomalism encountered by the CSR survey could not be reproduced by RGCE sampling, and is thought to have been produced by coarse gold shedding from the fluvio-glacials. Likewise grid based mapping and rock chip sampling failed to locate any significant alteration or mineralisation.

The IP/magnetic anomalism associated with the North Henty Fault does not have any significant gold or base metal anomalism associated with it, with the exception of broad, low-level Zn anomalism. The magnetic anomalism is now known to be caused by non-outcropping ultramafics located adjacent to the fault, and the IP anomalism is probably caused by graphitic shales in the fault zones. The latter interpretation is based on the discovery of graphitic shales in the vicinity of the interpreted position of the fault, on an access road alongstrike to the east of the IP anomalism.

No further work is warranted at this time on the basis of these results.

The only other possible target for exploration in the area is VMS systems hosted by epiclastics and volcanoclastics of the White Spur Formation. Recent work by Dr. Jocelyn McPhie of the CODES Key Centre, University of Tasmania, has identified quartz-phyric pumiceous mass flow deposits in the White Spur Formation that resemble the hanging-wall quartz-phyrics of Hercules Mine. (pers. comm.). However there are various stratigraphic and structural arguments against a direct correlation between the units. Additionally, in E.L. 21/86 the White Spur Formation is dominated by monotonous pelitic units, and the volcanoclastic components encountered further east are

mostly absent. For these reasons there is insufficient justification for retaining the E.L. to explore for VMS systems at this time.

6. BIBLIOGRAPHY

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ROBERTS, P.A., 1986;

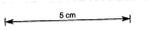
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LEGEND

- WHITE SPUR FM. **Cdw** Micaceous siltstone & lenses of gritty sandstone/greywacke
- Edw** Quartz - feldspar pyritic tuffs/epiastics
- HENTY RIVER SEQUENCE **Chf** Andesitic tuffs, agglomerates & minor lavas
- Cg** Gabbro
- Cus** Serpentinite
- Fault
- - - Inferred Fault

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RGC EXPLORATION PTY. LIMITED	
APP. BY	J. Crossling
DRAWN	M. Walter
DATE	JAN 1991
CHECKED	
IN CHARGE	
PROJECT NO.	5520/001
SCALE	1:15000
HOWARDS ROAD GRID EL. 21/86	
GEOLOGICAL INTERPRETATION	
PLAN	1