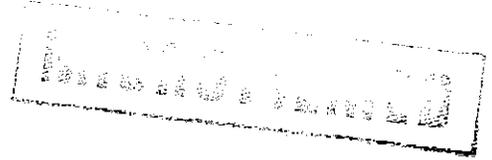


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# AUREOLE N.L.

(INCORPORATED IN TASMANIA)



EXPLORATION LICENCE 21/87 - BALFOUR

RELINQUISHMENT AND FINAL REPORT

**OPEN FILE**

91-3316

<b>MINES</b>	
File Ref. E.L. 21/87	
-6 DEC 1991	
Doc. Ref.	
Action Officer	Initials
REFER TO	
CORRES	5.12.91
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December 1991

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**TENEMENT INFORMATION**

Exploration Licence (EL) 21/87 is a 20km<sup>2</sup> tenement in the vicinity of Balfour, western Tasmania (Figure 1 & Plan 1).

The licence was originally granted on 13 January 1987 for an area of 231km<sup>2</sup>, but the exploration aims were modified in 1989 when the adjoining EL 53/88 was acquired by a related company, and EL 21/87 was reduced to 20km<sup>2</sup>.

In July 1991, title was transferred to Aureole NL and Sierra Nevada Resources Pty. Ltd.

**EXPLORATION PHILOSOPHY & OBJECTIVES**

Copper and tin mineralisation are known in the Balfour area and work done to date suggests an association between the mineralisation and the location of major linear structures and a shallow sub-surface granite spine.

In conjunction with work on EL 53/88, the objective has been to determine the age of base metal mineralisation exposed in the old Balfour copper mines and to explore primarily for base metals, following either a model of zoned mineralisation around a granite body, fault emplaced Cambrian mineralisation or Late Proterozoic Sedex-type mineralisation.

Since the regional gravity survey in 1989, essentially all work has occurred within EL 53/88 and with the current tight budget conditions, it is necessary to relinquish EL 21/87.

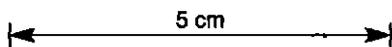
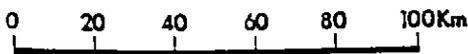
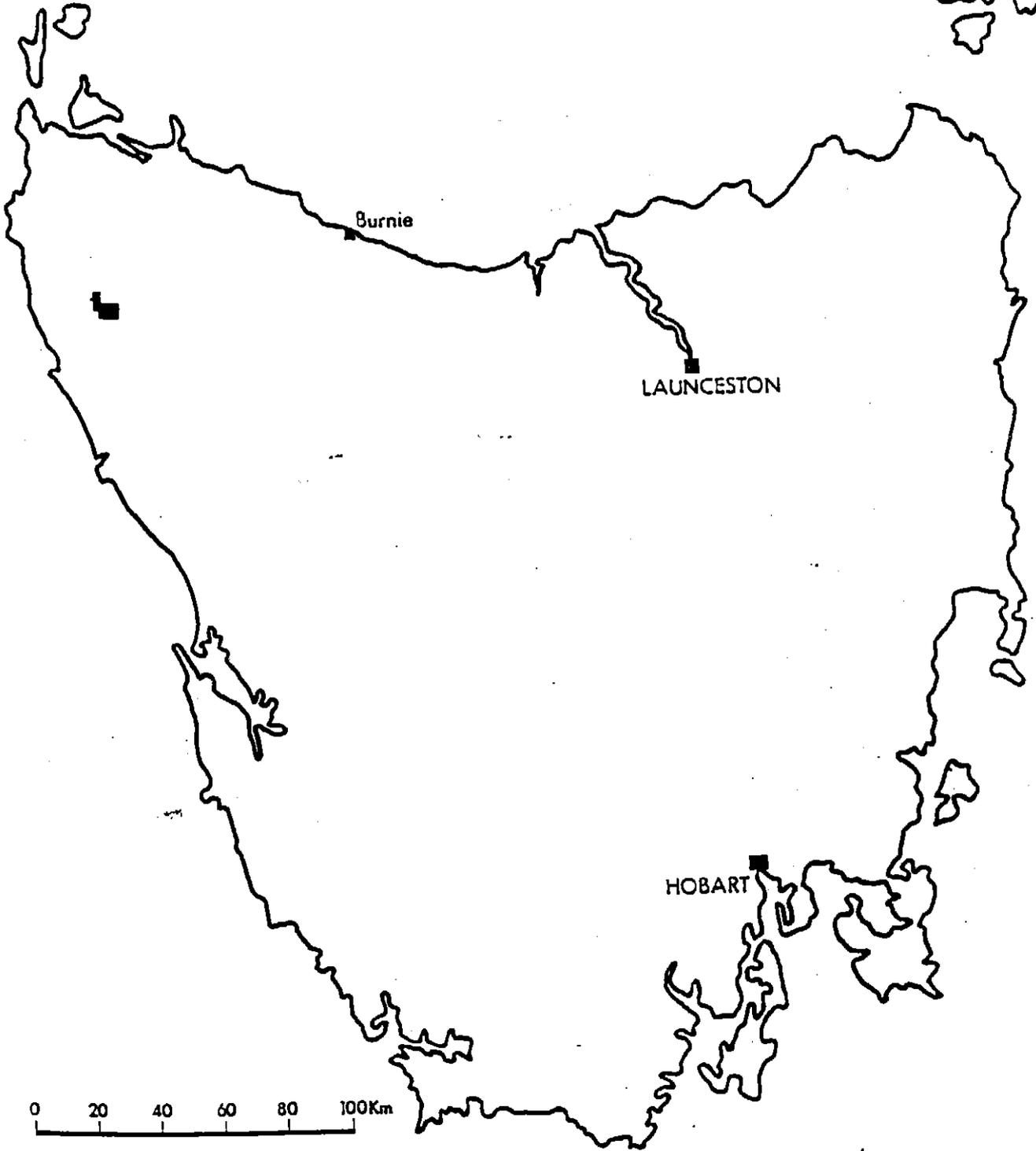
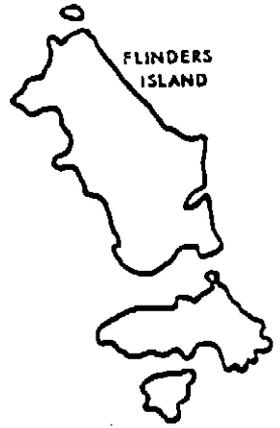
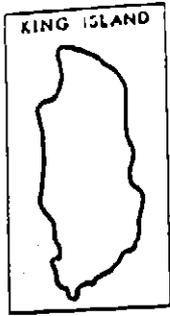


Figure 1. Location Map - EL 21/87, Balfour.

**SUMMARY OF PREVIOUS WORK**

All work specifically performed on EL 21/87 was reported in the Year 1 and Year 2 Annual Reports.

Year 1 work reviewed previous exploration and existing geophysics in the region and produced the following conclusions:-

1. CRAE explored for shale hosted Zn rich mineralisation and mafic volcanics hosted Cu-rich mineralisation in the region, including parts of EL 21/87. Several geochemical anomalies were followed up by ground based EM, but no significant conductors were discovered.
2. Regional geophysics suggested that Smithton Trough carbonates and mafic volcanics have been partly overthrust from the west and that the Pieman Granite may extend, in the sub surface, as far north as Balfour. Balfour mineralisation could be related to structuring associated with either the thrusts and/or the granite.
3. Reconnaissance rock chip sampling produced elevated base metals, particularly copper, in some basalt and black shale samples.

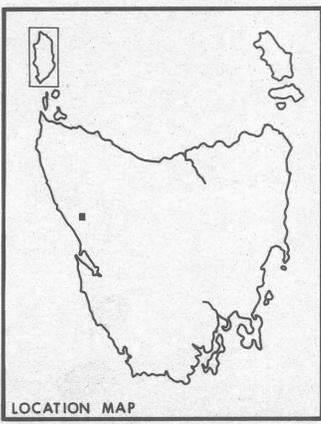
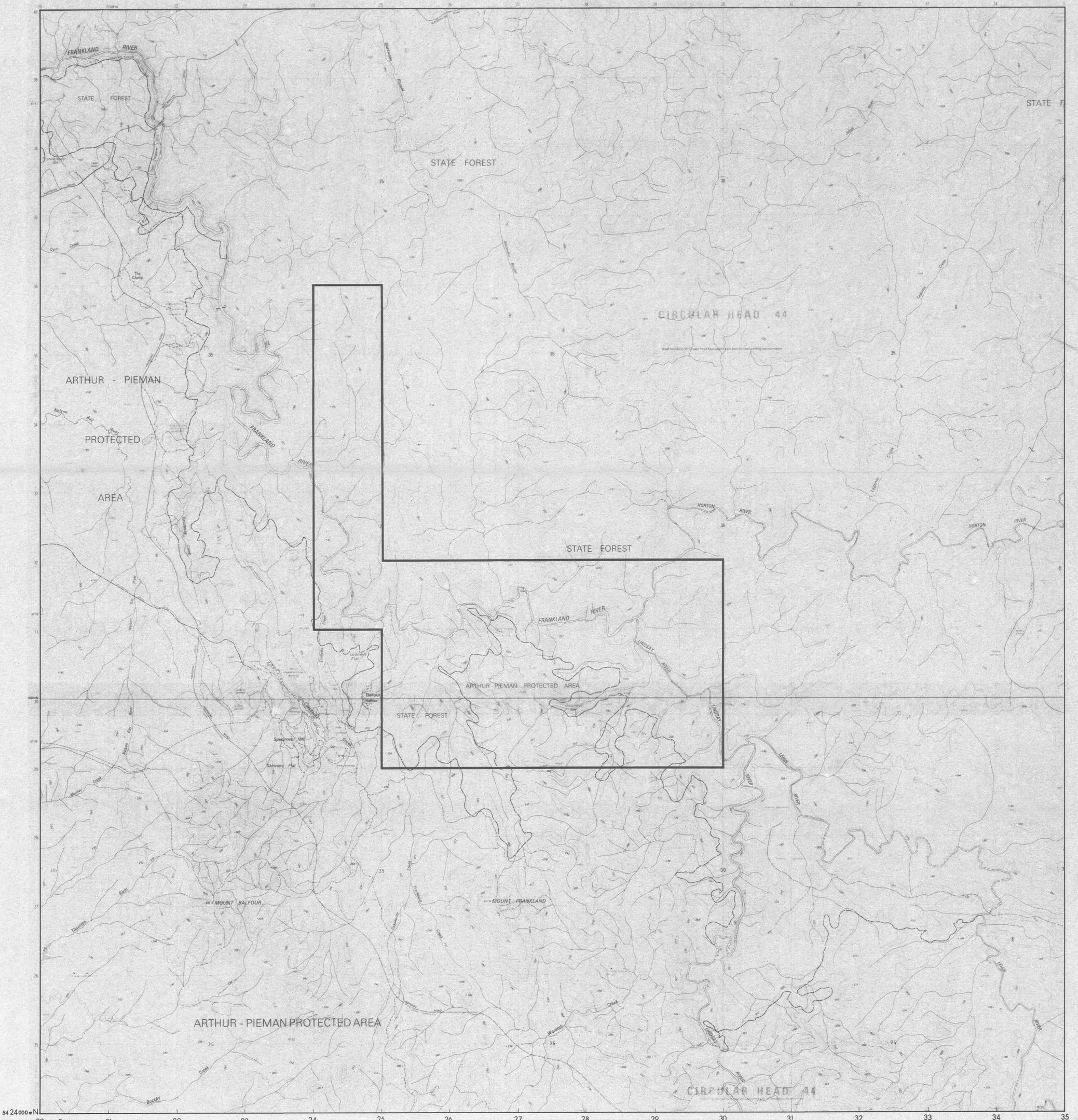
A gravity survey of EL 21/87 and the adjoining EL 53/88 was the main Year 2 project. The gravity confirmed that a spine of Pieman Granite probably underlies Balfour and on the basis that carbonates from the Smithton Trough and Rocky Cape Group shales would be good exploration targets for replacement style tin, tungsten, copper and silver mineralisation, above the granite, EL 21/87 was reduced to a 20km<sup>2</sup> block NE of Balfour, and adjoining EL 53/88.

All subsequent work has taken place within EL 53/88. No earthworks or track construction occurred within EL 21/87 and no mineralisation was encountered.

#### REFERENCES

Cromer, W.C., 1988. E.L. 21/87 Annual Report : Year 1

Hofto, V. and Morrison, K.C., 1989. E.L. 21/87 Annual Report : Year 2



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AUREOLE RESOURCES PTY LTD, WINSTON RESOURCES PTY LTD & SIERRA NEVADA RESOURCES PTY LTD	
Compiled	VH
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Date	November 1989
Scale	1 : 25,000
PLAN No.	1

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