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A.C.I. - BALFOUR AREA

21/04/1970

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TASMANIAN EXPLORATION EL.16/68

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INTERIM REPORT FOR INCLUSION WITH REAPPLICATION FOR EL.16/68.

During the past six months, a field party has been maintained at Balfour conducting general mapping and undertaking a diamond drilling programme. General details of all work have been included in the monthly report to the Mines Department and this short report aims to outline briefly the results of work to date.

1. GEOPHYSICS.

During the first quarter of 1970, an induced polarisation survey was carried out by McPhar Geophysics at Balfour. Plans 1 and 2 show the location of the base line and initially traverses were made at right angles to the base line every 1600 feet using a 200 foot electrode spacing. Numerous I.P. anomalies were located as shown on the plan and detailed work was undertaken over the following areas :

- 1.1 The Clump - 14 lines 250 feet apart, 75 ft. spreads.
- 1.2 The Blocks- 8 lines 100 feet apart, 75 foot spreads.
- 1.3 Murrays Reward and Central Mine - 14 lines, 150 feet apart, 75 foot spreads.

At the Clump, a strong continuous anomaly occurs over a strike length of 3000 feet, and is inferred from regional work to extend a further 1500 feet. The anomaly varies in width from 75 to 200 feet and regional mapping indicates that graphite in the area is a contributing factor to the width and magnitude of the anomalies.

The limited work at the Blocks Prospect has indicated one definite anomaly and one probable anomaly extending over a minimum strike length of 1000 feet. These anomalies coincide with old copper workings.

Definite anomalies were located on all lines over Murrays Reward and the Central Mine, (covering 2,100 feet of strike), but there appears to be some overlapping of anomalies. The I.P. effects correlate well with the visible copper mineralisation although graphite tends to occur with the mineralisation and hence can produce anomalies where no mineralisation is present.

Further detailed work will be required in the area between the Blocks and Clump Prospects as several strong anomalies occur on several lines spaced 1600 feet apart.

2. UNDERGROUND SAMPLING.

During 1970, the old workings at the Clump, Murrays Reward and Central Mines, were opened up and channel samples cut over 5 foot horizontal widths with the following results :

- 2.1 Clump Mine. The mineralised zone is up to 60 feet in width and samples assayed from 0.01% to 3.53% Cu and a trace to 0.7 oz. silver per ton. Detailed assays plans will be forwarded upon completion.

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