

READ EAST (F. G. FitzGerald)

SUMMARY

An anomalous EM zone has been delineated in the north east corner of EL 9/66. The zone is at least 700m long, and is covered by unconsolidated glacial deposits up to 20m thick. A broad zone of anomalous IP is centred east of the EM over strongly altered (quartz-sericite-pyrite) epiclastic rocks. Chloritic schists with disseminated pyrite outcrop to the west of the covered EM zone. All geophysical interpretations indicate a shallow depth to the top of the conductor.

1. INTRODUCTION

During a DIGHEM, helicopter-borne EM, survey of the Rosebery East EL 1/62 in December, 1983, part of the adjacent Tyndall EL 9/66 area was surveyed, in particular, the Henty Fault Zone and the White Spur areas. The survey was flown at a nominal line spacing of 200m in an east-west direction.

Preliminary evaluation of the DIGHEM data identified 3 moderately strong responses on adjacent lines over the north west part of EL 9/66 (See Figure 1), and these appeared to lie sub-parallel to the regional strike in the area. Reconnaissance geological mapping and ground EM surveys were carried out during January, 1984. The results of this investigation plus a brief summary of previous exploration in the area are included in this report.

2. WORK COMPLETED

1) Gridding:

Recut old Mt. Lyell grid lines 53N to 59N east and west of Howards Road to cover the DIGHEM responses, total 3.3km. All lines pegged at 20m intervals along slope.

2) Geological Mapping:

Lines 53N to 60N (total 3.5km) plus all access roads and tracks, (total 2.5km).