

1.INTRODUCTION

An interpretation of aeromagnetic data over and adjacent to EL's 17 - 18/91, 22/92 and 26 - 28/94 has been made to assist in exploration for gold mineralisation.

The aeromagnetic data are from the Netgold Database of northeast Tasmania. Within the study area the data are from three surveys (Figure 1):

Fingal 1993 (Geoinstruments)

- 200m spaced east-west flight lines
- 400m spaced north-south tie lines
- mean terrain clearance 74m (range 24-319m)

Mathinna 1990 (Geoinstruments)

- 150m spaced north-south flight lines
- 400m east-west tie lines
- mean terrain clearance 95m (range 55-207m)

Alberton Manganna 1989 (Austirex)

- 500m spaced east-west flight lines
- 5000m spaced north-south tie lines
- mean terrain clearance 244m (range 38-858m)

These data have been merged, gridded and contour maps at scale 1:50000 have been produced (Figures 3A,B). The data have also been image processed with results being presented on 35mm slides; hardcopy of one image was produced at scale 1:50000.

Geological data made available were the following:

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| 1:250000 | Geology map of northeast Tasmania |
| 1:50000 | Geology maps for Ringarooma, Alberton, St Helens, Ben Lomond,
St Marys, Snow Hill |
| 1:25000 | Maps of the Mangana, Mathinna-Tower Hill and Dans Rivulet Goldfields |