

10.0 REGIONAL AEROMAGNETIC/RADIOMETRIC SURVEY

10.1 GENERAL

A regional airborne magnetic and radiometric survey was flown across E.L. 7/74 and several adjoining licences. Flight lines were run north-south at 250 m spacings with a terrain clearance of 100 m.

Maps of Residual Magnetic Contours and Total Count Contours were produced at 1:20 000 to overlay cadastral sheets at the same scale. These maps have proved useful as a mapping guide as well as for selection of numerous anomalies for further work.

The aeromagnetic data has been interpreted by consultant geophysicist, Dr. G. Dickson & Associates Pty. Ltd. Three reports refer to the Moina E.L. 7/74.

- 1) Tasmanian Aeromagnetic/Radiometric Surveys, Progress Report (December, 1980).
- 2) Tasmanian Aeromagnetic/Radiometric Surveys, Progress Report II - Block No. 1 (December, 1980).
- 3) Tasmanian Aeromagnetic/Radiometric Surveys, Progress Report IV - Block No. 3 (March, 1981).

These reports are included as Appendix <sup>7</sup>.

Anomalies are numbered according to Cadastral Sheet Number with a sequential anomaly number i.e. (4240/3).

An initial group of the most obvious anomalies were selected for immediate follow-up. These included Liena South (4339/1), Liena (4339/2), Lorinna North (4240/3), Lorinna East (4239/1), Lorinna West (no number given) and Lake Gairdner (4240/1) aeromagnetic anomalies. These anomalies have been gridded and have had routine work done over the grid, including a ground magnetics survey, magnetic susceptibility measurements, soil sampling and geological mapping.