

4. GEOPHYSICS

A ground magnetic survey was carried out by Scintrex from January 29th to April 15th, 1982. Scintrex MP-2 Proton Precession magnetometers were used in the survey with readings taken every 10m. The normal diurnal corrections were applied to readings, plotted and contoured on 1:5,000 scale map (E.Z. Plan 4, AO-304-0267).

The ground magnetic survey resolved the Colebrook Serpentinite into two elongate positive anomalies with peaks +6,000 gammas. The 2,600 gamma contour outlines Crimson Creek Formation geology closely. A circular positive anomalies outlined by 2,800 and 2,900 gamma contours in the area south of Ring River is unexplained by surface geology. The circular shape could represent the signature of a buried granite body or possibly the magnetite occurring in a contact aureole related to a granite at depth.

5. CONCLUSIONS

1. The Ring River area is underlain by a thick sequence of Cambrian sediments with minor intercalated volcanic flows and tuffs. Rosebery Group rocks underlie the major portion of the grid area. Six formations are recognised within the group.

Limestone and dolomite beds within Salisbury Conglomerate, and Munro Creek Slate, should be re-mapped to check lateral continuity.

Primrose Pyroclastics outcrop at the eastern extremity of the grid and interfingers with Munro Creek Slate at its western contact with the Rosebery Group.

2. Crimson Creek Formation is in fault contact with the Rosebery Group along the Fahlore fault.

3. Curtin Davis Volcanics of the ?Dundas Group are in fault contact with the Rosebery Group at the west extremity of the grid.