

Geophysics

Reconnaissance geophysics carried out on the Voyager 1 prospect grid 1976-77 involved V.L.F. (E.M.) on all four traverses and S.P., I.P. and resistivity on traverse 150E. Although broad in-phase V.L.F. (E.M.) lows were recorded on lines 50E, 100E and 150E, these anomalies were not supported by coincident I.P. effects, which suggests the cause of the E.M. response is non-metallic and probably reflects a lithological differentiation.

No anomalous S.P. character was recorded on line 150E.

During the 1977-78 field season, ground geophysical techniques involving magnetics, I.P., V.L.F. (E.M.) and vertical electrical sounding were used over the extensive Voyager 1 Area grid.

There was little correlation between magnetic and I.P. results.

The I.P. survey located the extent of the outcropping mineralization at the Voyager 1 prospect and indicated the polarizable source to be of small dimensions.

An accurate position of the Low Rocky Point Granite - Lewis River Volcanics contact was defined by interpretation of the I.P. chargeability data.

Strong in-phase V.L.F. (E.M.) anomalies were detected over the zone of the I.P. anomalies.

The high resistivities of the environment and the good correlation between V.L.F. (E.M.) and I.P. anomalies indicate that the V.L.F. (E.M.) method may prove useful for further work within E.L. 27/76.