

nickel and copper values and for this reason the company decided to extend the exploration to the Deveraux Prospect.

A hole (M10) was drilled to investigate the mineralisation but the results were inconclusive and it was considered that a geophysical investigation should be made as a guide for further testing.

(A) Geophysical and Geochemical Results

While drilling was in progress, a short self-potential survey was made by the author. This revealed only a very weak self-potential anomaly (58mV), but indicated that the direction of the strike of the lode is to the south-east as compared with the usual southerly direction in other parts of the field. The results of the survey are shown on Plate 7. The strike indicated by the geophysical survey coincides with that of the Silurian sediments which crop out only a few hundred feet south of the Deveraux Prospect. These sediments are the north-eastern limb of the Ordovician - Silurian basin of Zeehan. The S.P. survey was made over an area of about 800 feet by 600 feet around the Deveraux Prospect. The strongest indication (-58mV) was near the shaft; most of the other indications were of small extent and less than 40 mV.

Soil samples were taken wherever a slight S.P. anomaly was found. The soil samples were assayed for copper but did not give any metal values high enough to expect payable mineralisation further away from the Deveraux Prospect.

(B) Results from Drill holes M10 to M12

Three holes (M10, M11 and M12) were drilled near the Deveraux shaft. A sketch map showing the position of the drill holes is given on Plate 7.

The core recovery was not good and left some doubt regarding the value of the results. The main data regarding the holes are given below.

DRILL HOLE M10

Direction : 224° 30' magnetic
Angle of depression : 50°
Length of hole : 132 feet
Drilled : September - October, 1956.
Geology :
0 - 95 feet Tuff and argillite
95 - 122 feet Basic dyke
122 - 132 feet Red tuff

Assay Results

Depth	Ni(%)	Cu(%)
97' - 105'	0.14	0.23
105' - 112'	0.30	0.23
112' - 115'	0.91	0.27

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