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ELECTRICAL RESISTIVITY SURVEY

TENAGAMI LAKE PROPERTY

FOR

INTERNATIONAL CODALT AND SILVER MINING CO. LTD.

The property consists of 54 mining claims T-55695 to T-35712 incl., T-36755 to T-36788 incl. in Phyllis township, district of Nipissing, prevince of Ontario. Over half the claims consist of land covered by the waters of lake Temagami.

The claims may be reached by boat or aircraft from the town of Temagami about 20 miles to the northeast.

ENERAL GEOLOGY

Huch of the property consists of land covered by the waters of Lake

Temagami and the geology can only be assumed from scattered outcrops on islands.

Government geological maps indicate that Keswatin-type volcanic rocks outcrop on some of the islands in the northeast section of the property. These rocks consist of acidic volcanic fragmentals, largely applementas.

Overlying these steeply-dipping keewatin-type rocks are sediments of the Cobalt series and the Ripissing diabase sheet. These gently-dipping rocks effectively conceal the basement rocks on most of the property. There is considerable variation in the thickness of the diabase and Cobalt of the area, making it very difficult to predict the depth to the basement rocks at any spot.

Quartz-carbonate veins with copper-gold and lead-silver mineralization have been found in the Nipiasing diabase and Cobalt sediments of the area. None of these occurrences have proven, to date, to be of economic importance.

contact between steeply-dipping diorite and Keewatin-type volcanic rocks on the Temagami Mining Co., Ltd. property which adjoins the International Cobalt ground to the north and east. High-grade copper orebodies have been located in the volcanic fragmental rocks to the south of the diorite. The diorite body has been traced by diamond drilling to within in mile of the International Cobalt ground, and if it continued on strike, would cross the central part of the property.

GEOPHYSICAL SURVEY

Sixty-oyele alternating current was introduced into the ground through two electrodes. Voltage drops were read, with a vacuum-tube woltmeter, between stations 100 feet apart along lines parallel to the electrode line. Apparent average earth resistivities were calculated and plotted logarithmically.

DISCUSSION OF GEOFEYSICAL RESULTS

Several conducting zones were outlined in the course of the electrical resistivity survey carried out on the property.

Map 1 -

A local anomaly was indicated near the north boundary of claim T-35710. Since this anomaly is at or near the property boundary in the lake, the exact location of the claim line should be determined and the possibility of a joint hole with Temagami Mining, who hold the adjoining claims, investigated. Any drilling on this zone would have to be carried out during the winter from the ice.

Hear the west boundary of claim T-35711 at the south end of a small island, is a local anomaly which could be drilled from shore, if permission were obtained from the owner of the island.

A third enously near island 677 was outlined on claim 7-35709. This anomaly is also in a position where it could be investigated by drilling from an island.

A local anomaly was outlined in the south-sest corner of claim T-35712 near Island 661.

Map 3 -

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An cost-west trending area of low resistivity traverses the southern part of a small lake on claim T-30764. Lowest resistivities are near the western boundary of this claim.

Map 4 -

A local anomaly, apparently of limited strike length since it appears only on line 18+00% immediately north of the baseline, was indicated on claim T-36753.

Map 5 -

A broad area of low resistivity was outlined in lake Temagami on waim

T-36771 south of Cattle Island. The great lateral extent of the anomalous area

suggests that it may be the expression of deep water. The anomaly cannot, however,

be definitely ruled out without further testing.

RECOMMENDATIONS

It is recommended that the anomalies discussed above be tested by diamond drilling.

Respectfully submitted,

J. C. FRANTZ

April 20, 1986 Borth Bay, Ontario.







