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Dickenson Mines Limited, Suite 416, 25 Adelaide Street, West, Toronto. Ontario.

Gentlemen: -

This report describes the results of a program of geophysical survey conducted by Geo-Technical Development Co. Limited on your property located in Groves Township, Ontario. The program was carried out in November and December, 1962 and January, 1963, and the results are depicted on the plan accompanying this report.

CONCLUSIONS AND RECOMMENDATIONS

The program of geophysical survey, using magnetic, electromagnetic and resistivity methods, has outlined an interesting geological picture but encountered no definite indication of the occurrence of any sizeable body of base metal deposit.

A limited program of prospecting is recommended and described in this report.

PROPERTY, LOCATION AND ACCESS

The area surveyed is comprised of the following 12 contiguous claims;

> 32301 to 32305, inclusive; 31589 to 31592, inclusive; 31584, 31585 and 31587.

The survey was extended to cover an additional claim located to the south of Claim 31587.

All the above said claims are located in Groves Township, Gogama Area, Ontario.

The location is about 5 air-miles to the southeast of the town Gogama on the C.N.R. Access can be
made by bush plane from Timmins or Sudbury to Groves
Lake or Geoffrion Lake located at the east and north
boundaries of the property. Access was also made by
foot from Gogama.

GEOLOGY

General geology of the area is on Map NO. 43c, Ontario Department of Mines, accompanying report Vel.

KLIII, pt. 3, 1934. This and development of the property were discussed by C.L. Holbrooke, in a report to Baiville Gold Mines Ltd., dated May 8th., 1959. His report was based on a compilation and interpretation of old maps, drill records, reports, surveys etc., in the Company files. You are referred to his report for known geology given on the plan accompanying the present report.

GEOPHYSICAL SURVEY METHODS AND INSTRUMENT

A Sharpe A-2 magnetometer with a sensitivity of 20 gammas per scale division was used for the magnetometer survey. The operation was carried out by setting out control stations at six hundred foot intervals along the base line with all other station-readings checked into these control stations.

The electromagnetic survey was carried out by using a Sharpe S-E 200 unit with the transmitter and receiver travelling along neighbouring picket lines at a separation of 300 feet apart. One configuration

with the transmitter vertical was used.

The resistivity survey was carried out by using a modified form of the early resistivity methods developed by Geo-Technical Development Co. Limited. In short, a known current is introduced into the ground by means of two screen contacts which are separated by a distance approximately equal to three times the width of the area surveyed and connected by a spread wire drawn through the center of the area at right angles to the base line. The contacts are spaced equi-distant from the base line. Readings are then taken at 50 foot intervals along the picket lines, by means of a sensitive vacuum tube voltmeter which measures the potential drop across the interval. The apparent resistivity is then calculated from the potential readings and current, in terms of ohmcentimeters. A Canadian Research Institute Vacuum Tube Voltmeter, Model E-9008A, with 100 microvolt full-scale deflection, and a Canadian Fairbanks-Morse Onan Motor Generator Plant, 115V, 400W, were used.

SURVEY RESULTS AND INTERPRETATION

An interpretation of the survey results is depicted on the plan accompanying this report. The interpretation was based on the magnetic data in correlation with resistativity data and the known geology.

There is a magnetic zone outlined throughout the area. The readings are in the order of 500 gammas, with "highs" up to about 7,800 gammas. The zone is apparently indicating the dike-shaped gabbro described by Holbrooke.

However, there is hardly any magnetic expression over the plug-shaped gabbro which is associated with the known Ni-Cu mineralization. Although it is possible, but unlikely, that this difference is all due to artificial objects left at the small area of the plug. It follows that these two gabbroic bodies are not only different in shape but also different in mineral composition.

Resistivity of the mineralized zone is also not indicative. There is only a drop from 3,230 to about 1,700 ohm-om x 10³. This could be due to the short length of the mineralized zone and the acute angle it makes with the traverse. These could also be the reasons for the lack of electromagnetic response at the area of known mineralization. The same reasons should be kept in mind for the evaluation of the areas cut by the many diabase dikes and faults.

There are several low resistivity zones or "contrasts" which are not associated with appreciable magnetic changes.

Electromagnetic check traverses over these indications obtained negative results.

The resistivity readings are in the range of 50-7,000 ohm-cm x 10^3 . There is no appreciable zone of resistivity "highs" which is indicative of a large area of silicification. However, this does not exclude the possibility of having quartz veins.

One can therefore conclude that the geophysical rveys have encountered no definite indication of the surrence of any sizeable body of base metal deposit.

[&]quot; " TECHNICAL DEVELOPMENT CO. LIMITED

It is therefore not justified to recommend any surface drilling. However, when considering the limitation of geophysical methods in exploration, there are few locations where surface prospecting is considered useful.

The following program of limited prospecting is recommended:

- (a) Line 18 W., 1,000' N. to 1,350' N. to check a strong magnetic dipole effect and and inferred fault.
- (b) Line 6 W., 600' N. to 950' N., 190' E. to check the north boundary of an inferred gabbro which is cut by faults.
- (c) Line 9 E., 250 N. to 550 N. to check a magnetic zone which runs parallel to the direction of the mineralized zone.
- (d) Line 24 E., 1,325' N. to 1,600' N. to check the possibility of gold-bearing quartz veins in an area of inferred acid intrusive. The location is in the vicinity of the occurrence of a 2 foot quartz vein indicated on Map No. 43C, Ontario Department of Mines.

SURVEY DATA

outting an old northeasterly base line and turned-off new picket lines cut at 300 foot intervals to cover the 13 claim area. A total of 15.7 miles of lines were cut for the survey lus 4 miles of picket lines for the spread wire. A total of 14.5 miles of magnetometer survey, the same mileage of resistivity survey and 3.3 miles of electromagnetic check survey were carried out. The numer of 8-hour man-days required to complete the work is as follows:

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Operating magnetometer survey, resistivity survey and electromagnetic check survey	68 ж Ц	272
Preparation of report and office typing	5 x 4	20
Drafting	8 x 4	32
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Respectfully submitted,

GEO-TECHNICAL DEVELOPMENT CO. LIMITED,

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S.S. SZETU, Ph.D., Consulting Geologist.

February 25th., 1963

24 Wellington Street West, Toronto, 1, Ontario.

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The penalty for making a false statement in this certificate is \$500, or six months imprisonment or both.



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The penalty for making a false statement in this certificate is \$500, or six months imprisonment or both,



To the Recorder of Montreal Ri	ver) 1
t, Diekenses	(Name of Recorded Holder)	
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REPORT OF WORK

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The penalty for making a false statement in this certificate is \$500, or six months imprisonment or both,



To the Recorder of	Montreal Rive		Mining Division:
i. Diekenson	Mines Ltd.,		and the state of t
	'(Na	me of Recorded Holder)	
maite 416-		reet, West, Toronto (Post Office Address)	
the recorded holder of min	ning claim NoMR	31586	hereby repart the performance
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i am the recorded holder	under Mining License N		son Mines Ltd. by Mid. ng Services.Lie,A 22041
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REPORT OF WORK

Montreal River Mining Division: Dickenson Mines Ltd., mite Alómis Adelaide utruotije of , to to the (v2 offil / 502.71/2 (2011) . the recorded holder of mining claim No. MR 31533 itereby report the performance work not before op aved, to be applied to this claim. of days' (geological Tall for bickenson Hamma btd. by Mid Lam the recorded holder under Mining License No. Lostin Lagineering Larvices. Lic. A 22041 The work is as follows: Geophysical Survey Type of instrument used Names and addresses of men employed and the dates on which each worked are: foral No. of Days Names and addresses of men employed and me dates on which cash with The reports and maps in duplicate are being forwarded to Department of bitions, in Land Survey Name and address of surveyor who completed the survey. avad lo .

Dated . . .

(Signature of seconded Holder or Agent)



