



42A06SE0073 63.1484 LANGMUIR

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The President and Directors,
Maybrun Mines Limited,
Suite 305,
100 Adelaide Street West,
Toronto, 1, Ontario.

Gentlemen:

This report describes the results of a program of geophysical survey carried out on your property located in Langmuir Township, Porcupine Mining Division, Ontario. The geophysical survey was carried out in December, 1964, and has obtained some interesting indications, and a program of test diamond drilling is recommended. The results and interpretation, are depicted on the plan accompanying this report, plotted to a scale of 1 Inch = 200 Feet.

PROPERTY, LOCATION AND ACCESS -

The property consists of the following twelve (12) contiguous, unpatented mining claims:

P-78906 to P-78914, inclusive (9 claims);

P-65297 to P-65299, inclusive (3 claims).

These claims were staked in November, 1964, following the announcement that McWatters Gold Mines had pulled a lively nickel intersection in the second hole of the Company's current drilling program in the township (The Northern Miner, November 19, 1964, Page 12).

The claims form a rectangular block three claims north-south and four claims east-west, with the south boundary lining on the township line between Langmuir and Fallon Townships and between No. 2 Mile and No. 3 Mile mileage posts.

The location is about 1.5 miles to the southeast of the property of McWatters Gold Mines Ltd., and about 2.5 miles to where the said Company is currently drilling.

Access can be readily had by helicopter from Timmins, for about 20 miles to the property, or by boat in the Summertime, through Nighthawk Lake and Nighthawk River, about 15 miles to the east of Timmins, south to Fork River, about 1 mile to the north of the property. Access can also be had in the Wintertime, from South Porcupine, along a tractor-road which leads to a transmission line owned by North Canada Power Company. This transmission line runs northwest-southeasterly across the township and crosses at a point about 1 mile to the east of the property.

GEOLOGY -

According to Geological Map 2046, 1964, Ontario Department of Mines and Preliminary Geological Map P141, 1962, Ontario Department of Mines, the property covers an ultrabasic intrusive which strikes east-

westerly across the south part of the township, parallel to part of the same kind of intrusive that is located at the property of McWatters Gold Mines Ltd.

The same maps show that there are asbestos occurrences located within these ultrabasic intrusives, one of which is at the east boundary area of your claim group. There are many known sulphide occurrences located within a zone of rhyolite, intruded by the ultrabasic rock located at the McWatters Area, but no nickel was indicated. There are two barite occurrences located along the south contact zone of the ultrabasic intrusive where the property is located. This zone of ultrabasics intrudes basic volcanics. A strong northwesterly fault known as the Montreal River Fault, is located at about half-to-one-mile to the east of the property.

AEROMAGNETIC DATA -

Aeromagnetic data of the area are on Maps 293G and 294G, G.S.C. According to these maps, the two zones of ultrabasic intrusives are indicated by two high magnetic zones with similar intensities, with heights in the order of 2,500-3,000 gammas. The property here concerned covers one of these magnetic-high anomalies.

GEOPHYSICAL SURVEY DATA -

The geophysical survey was carried out in December, 1964, with picket lines cut north-south at 300-ft. intervals, to cover the property area. It should be noted here, that the south boundary of the property is from three-to-four hundred feet to the north of the township line, between Langmuir and Fallon Townships. A total of 13.9 miles of lines was cut for the geophysical operation. The program involved a complete magnetic and electromagnetic coverage of all the picket lines, with 100-ft. stations.

An MF-1 Fluxgate Magnetometer with base-check method, was used for the magnetometer survey; and a Sharpe SE-200 Electro-magnetic Unit was used for the electromagnetic survey, with parallel-line method.

SURVEY RESULTS AND INTERPRETATION -

The magnetometer survey has outlined several strong magnetic zones running in an east-westerly to an east-northeasterly direction through the central part of the property. These magnetic zones have high readings in the order of 2,000-7,800 gammas, against readings in the order of 200-1,000 gammas in the area of known sediments. The magnetic zones are inferred as indicating basic-to-ultrabasic intrusives intruding volcanics.

Judging by the magnetic contours, there are possibly several lenses of volcanics included within the intrusives.

The contouring of the magnetic data also indicates the occurrence of one north-south "cross-fault" and a northwesterly fault. The northwesterly fault is parallel to the regional Matachewan Lake-Montreal River Fault; it could be one of its subsidiaries.

The electromagnetic survey encountered several interesting electromagnetic conducting points, a series of which indicates a conducting zone for a length of over 900 feet at the east-central part of the property. The strongest indication along the above-said conducting zone has a dip-angle change of from 2° N. to 5° S. The conducting zone is inferred as locating between the boundary of an enclosure of volcanics in the intrusives, and covered by overburden. D.D.H. No. 1, is recommended to test-drill this conducting zone.

Along the northwesterly fault mentioned above, there is a conductor with a dip-angle change of from 3° N. to 3° S. D.D.H. No. 2, is recommended to test-drill this conductor and the indicated fault.

At the west boundary area of the property, there is a strong conductor which has dip-angle changes of from 5° N. to 10° S. This conductor is apparently cut off by the above-said northwesterly fault,

to the immediate east. D. D. H. No. 3, is recommended to test-drill this conductor, at a location 120 feet within the boundary of the property.

The locations of these three proposed diamond-drill holes, are depicted on the plan accompanying this report, all drilled in a north direction, parallel to the picket lines, at a -45° dip, to cover the length, such as indicated on the plan. However, provision should be made to extend these holes to cover the interesting geological indications which may come out of the diamond drilling. An estimated total core length of 1,000-1,500 feet, should be enough for this coverage.

The electromagnetic survey also encountered several other weaker and isolated indications; one located 1,500 feet north of Line 21E., is associated with interesting magnetic changes. The location is close to the area where the Government Geological Map showed the occurrence of asbestos. These indications, magnetic and electromagnetic, are located on high ground, with the possibility of outcrops. I recommend to check this high-ground area by a geological examination, prior to possible trenching and/or diamond drilling.


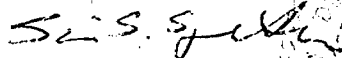
CONCLUSIONS AND RECOMMENDATIONS -

The geophysical survey has outlined a very interesting geological situation on your property located at the south part of Langmuir Township. The interpretation is depicted on the plan

accompanying this report, and a program of approximately 1,000-1,500 feet of test diamond drilling is recommended to test three electromagnetic conductors. A program of geological examination is recommended, to check a high-ground area where there are magnetic and electromagnetic indications in the vicinity of a known asbestos occurrence.

Respectfully submitted,

CANA EXPLORATION CONSULTANTS LIMITED

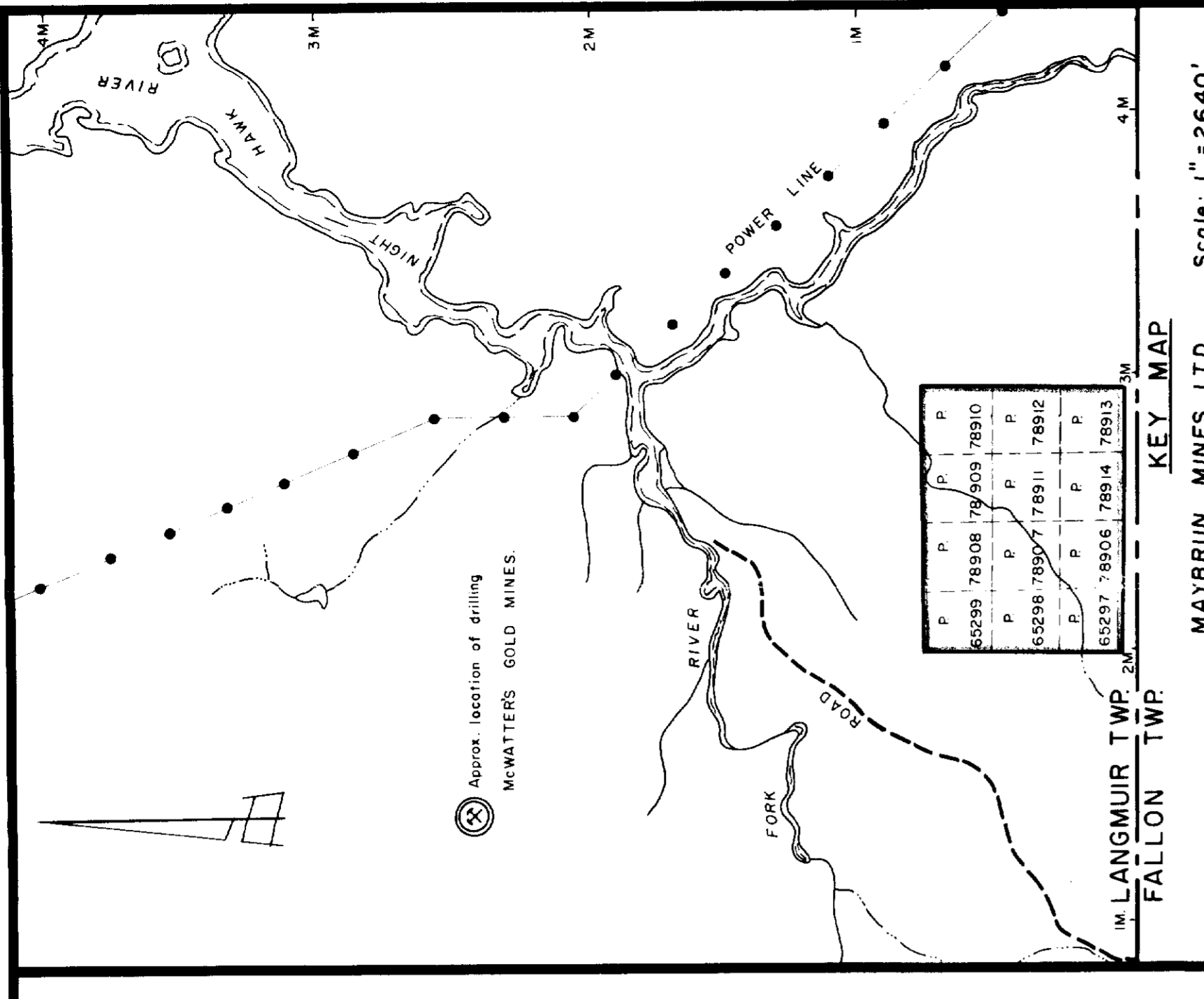


S. S. Szetu, Ph. D.,
Consulting Geologist.

SSS:rw
Encl.

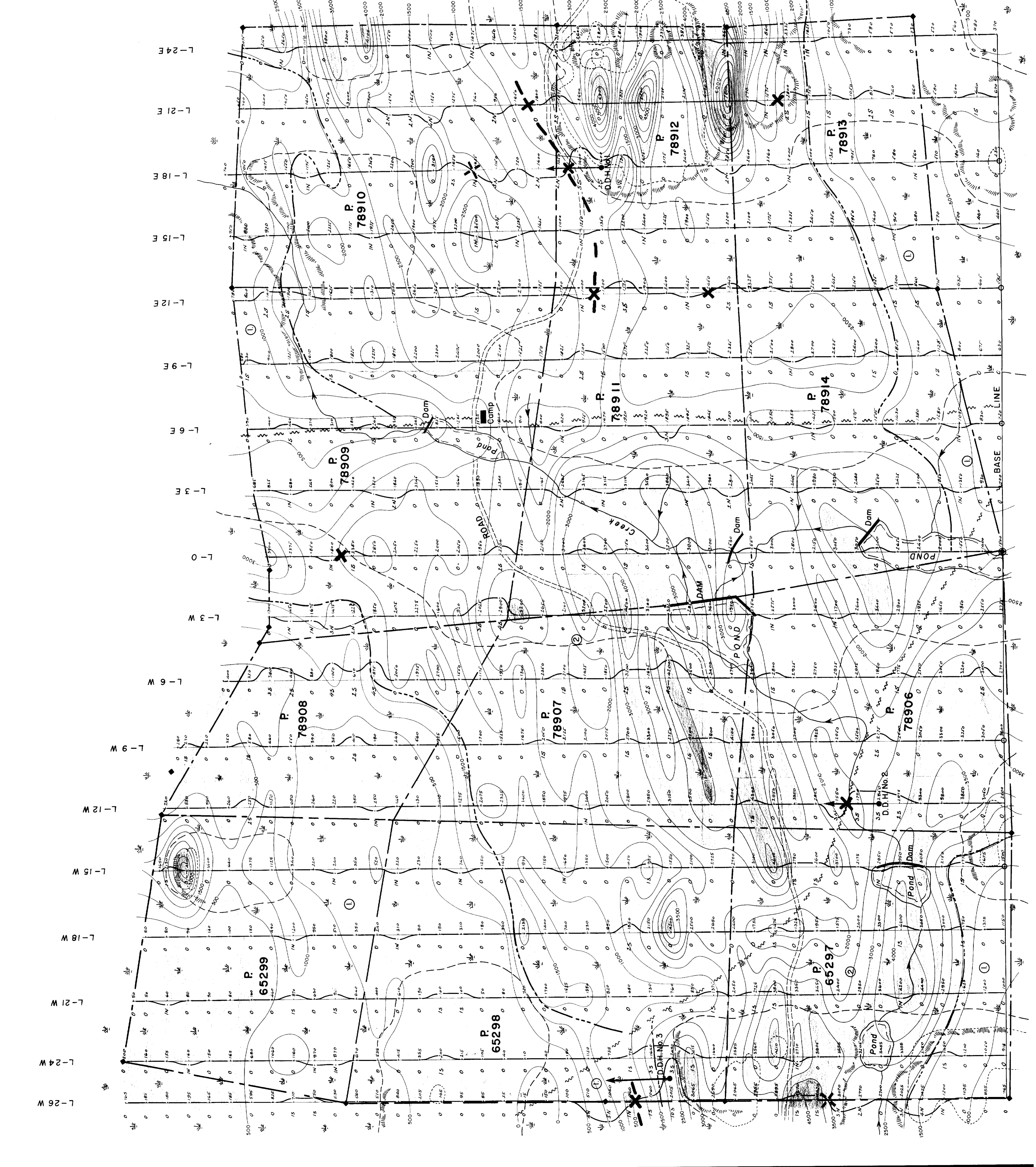
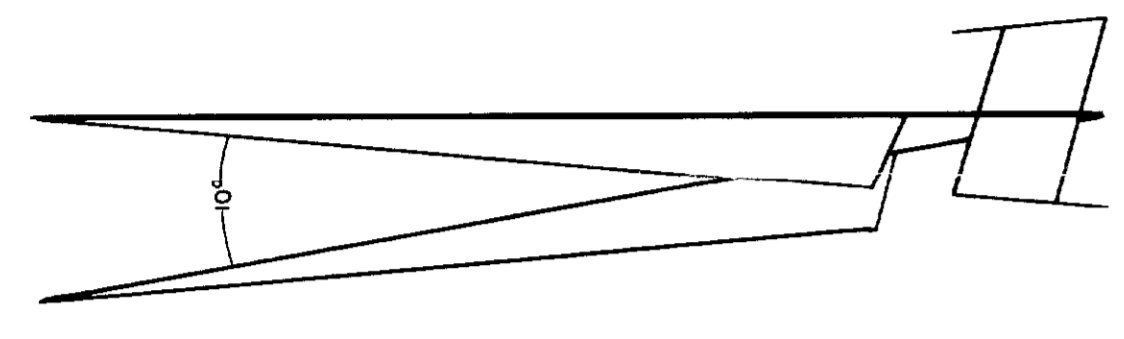
Toronto, Ontario,

January 11th, 1965.



LEGEND

- Claim post and claim boundary.
- Swamp.
- Higher ground.
- Outcrop.
- Magnetic control station.
- Picket line cut and chained.
- Magnetic readings obtained and plotted to the East of picket line.
- Magnetic contours with 500 gammas interval.
- 0 gamma and under.
- 0 - 500 gammas
- 500 - 1000 "
- 1000 - 1500 "
- 1500 - 2000 "
- 2000 - 3000 "
- 3000 - 4000 "
- 4000 gammas and over.
- Electromagnetic dip angles observed by using a Sharpe SE-200 unit and plotted to the West of picket line. (parallel line method).
- Scale of profile: 1/10" = 1° of dip angle.
- Electromagnetic "CROSS-OVER".
- Electromagnetic conducting axis.
- Electromagnetic "Reversed Cross-Over".
- Proposed diamond drill hole.
- Inferred fault.
- Inferred geological boundary.
- Mostly volcanics.
- Mostly Basic to ultra-basic intrusives.
- Minor volcanics.



GEOLOGICAL SURVEY DATA ON 12 CLAIM PROPERTY

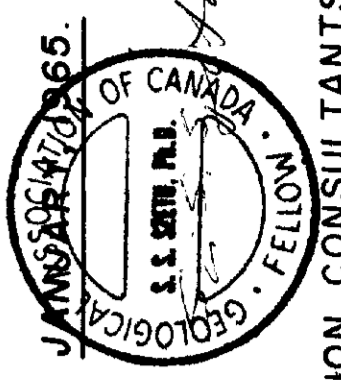
MAYBRUN MINES LIMITED

LANGMUIR TOWNSHIP
PORCUPINE MINING DIVISION

ONTARIO

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SCALE: 1" = 200'



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