GEOPHYSICAL REPORT

ON PROPERTY OF

NATIONAL EXPLORATIONS LIMITED

LANGMUIR TOWNSHIP

PORCUPINE MINING DIVISION

DISTRICT OF TEMISKAMING

PROVINCE OF ONTARIO

SULMAC EXPLORATION SERVICES LIMITED

MARCH 11, 1965

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LANGMUIR TOWNSHIP
PORCUPINE MINING DIVISION
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Introduction

Ground electromagnetic and magnetometer surveys were conducted over a group of claims held by National Explorations Limited, located in Langmuir Township, Ontario.

The surveys were carried out by Sulmac Exploration Services Limited during the period February 8 to 25, 1965. The results obtained are depicted on the plan accompanying this report.

Summary and Recommendations

The property of National Explorations Limited, which is discussed in this report, was surveyed by electromagnetic and magnetic methods. The magnetic survey indicated no major anomalous zone. The data obtained during the magnetometer survey indicated the property to be underlain by rocks, probably of volcanic origin, which have been intruded by more basic intrusive rocks and narrow diabase dykes.

The electromagnetic survey did not locate any conductive zones.

The geophysical data obtained to date indicates that no significant concentration of mineralization is to be found within the boundaries of the property. Therefore, it is recommended that further exploration of the property be held in abeyance for the present.

Property, Location & Access

The property consists of a group of nine unpatented mining claims numbered P 78874 to P 78880 inclusive, P 78885 and P 78886, located in the central part of Langmuir Township, Ontario.

The group is located some 17 miles southeast of Timmins, Ontario, and is bounded by McWatters Gold Mines property in Langmuir to the west, Mining Corporation's property to the north, and the Night Hawk River to the east.

The property is accessible by fixed wing aircraft from Timmins.

General Geology

The consolidated rocks of the area are of Pre-Cambrian age and of igneous origin. The claim group in question

is underlain by acid and basic volcanic rocks of Pre-Cambrian age, Map No. 2046, Timmins-Kirkland Lake Sheet, Ontario Department of Mines. Outcroppings of basic rock and pyrrhotite are reported throughout the township.

Method of Survey

A combined magnetic and electromagnetic survey was carried out over the claim group based on a grid system of 200 foot lines and 100 foot stations. The baseline of the grid was established in a northeasterly direction. Traverse lines were turned off at right angles to this baseline. A total of approximately 12.9 miles of line were cut and chained.

The electromagnetic survey was carried out using a vertical loop single phase unit, readings being taken at 100 foot intervals along the picket lines. A total of 604 stations were read during the survey of approximately 11.4 miles of line. Eight transmitter setups were adequate to complete the survey.

The magnetometer survey was conducted using a Sharpe MF-1 Fluxgate instrument which had a sensitivity of 20 gammas per scale division over the 1000 gamma scale. Again readings were taken at all stations totalling 604 in all and covering 11.4 miles of line.

The survey covered an area of approximately 360 acres.

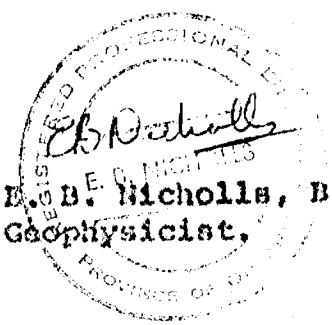
Discussion of Results

The magnetometer survey shows variation in magnetic relief towards the west side of the property. The property is, therefore, probably underlain by rocks of volcanic origin which have been intruded in the western half by more basic or ultrabasic rocks. Narrow diabase dykes which cut through the various formations are also interpreted from the magnetic data. A number of possible faults are also shown.

The electromagnetic survey has not located any zones of conductivity. The results obtained have not, therefore, brought forth any suggestion of an economically significant mineral occurrence within the boundaries of the property.

Respectfully submitted,

SULMAC EXPLORATION SERVICES LIMITED



E. B. Nicholls, B.Sc., P.Eng.,
Geophysicist.

March 11, 1965

L E G E N D

RECONNAISSANCE — DETAIL

ELECTROMAGNETIC SURVEY

(a) Profile of Electromagnetic Reading (a)
Dip Angle - I = 20°

△ T# 2 Electromagnetic Transmitter Location △ D# 2

T-2 Transmitter Location Reference D-2

Conductor Axis

MAGNETOMETER SURVEY

Contour Interval 50 Gammas

1000 gamma contour

100, 50 gamma contour

Magnetic Depression

MAP SYMBOLS

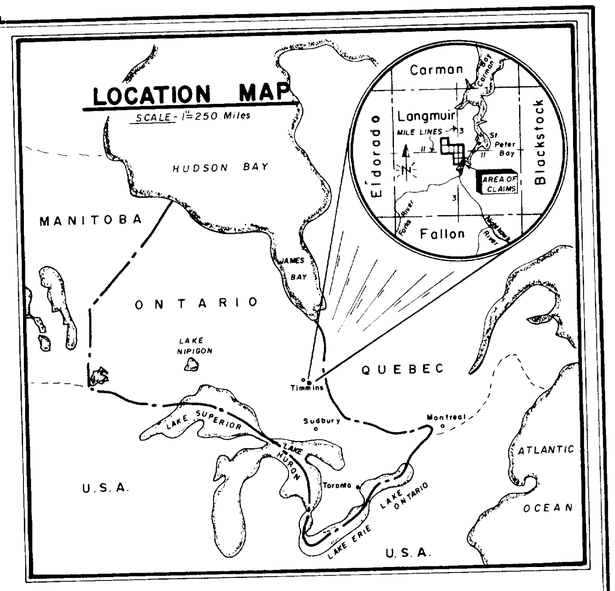
Claim Post and Claim Boundary

Indicated Fault from Magnetics

Probable Dyke from Magnetics

LOCATION MAP

SCALE - 1" = 250 Miles



P-78886 P-78885 P-78874 P-78875 P-78876 P-78878 P-78877 P-78879 P-78880

T#1 T#2 T#3 T#4 T#5 T#6 T#7 T#8

W.P.

Base Line

MIGHT HAWK RIVER

NATIONAL EXPLORATIONS LTD.

LANGMUIR TOWNSHIP - ONTARIO
DISTRICT OF TIMISKAMING
PORCUPINE MINING DIVISION

ELECTROMAGNETIC AND MAGNETOMETER SURVEY

200

SULMAC EXPLORATION SERVICES LIMITED

FEB.-MAR.- 1965

Scale

One Inch = Two Hundred Feet

Geophysicist E.B. NICHOLLS

Drawn by D.A. GRANT