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**GEOPHYSICAL REPORT
ON PROPERTY OF
YUKENO MINES LIMITED**

**GEARY TOWNSHIP
PORCUPINE MINING DIVISION
DISTRICT OF COCHRANE
PROVINCE OF ONTARIO**

Introduction

A group of ten claims held by Yukeno Mines Limited located in Geary Township, Ontario, has been investigated by ground electromagnetic and magnetometer surveying.

The surveys were conducted during the period February 6 - 13, 1965, by Sulmac Exploration Services Limited. A plan of the results obtained accompanies this report.

Summary & Recommendations

The property of Yukeno Mines Limited, which is discussed herein, was covered by electromagnetic and magnetometer surveys. No anomalous zones were discovered by the magnetometer survey, indeed no significant magnetic relief was indicated. This suggests that the area within the claim group is underlain by one rock type, probably volcanics. However, one diabase dyke, interpreted from the magnetics, lies along the west boundary of the property.

The electromagnetic survey has not located any conductive features.

All geophysical data indicate that no significant body of mineralization lies within the boundaries of the property. Therefore it is recommended that further exploration of the property be deferred at this time.

Property, Location and Access

The ground held by Yukeno Mines Limited comprises ten unpatented mining claims situated in Geary Township, Ontario. The claims are designated by the Department of Mines by the following numbers: P 76307 - P 76316 inclusive.

The claim group is located in the south central part of the township, some 35 miles northwest of Timmins. The property is accessible by helicopter from Timmins.

General Geology

The Timmins-Kirkland Sheet, Map No. 2046, produced by the Ontario Department of Mines, illustrates the geology of the general Timmins area. Geary Township is shown as either unmapped or lacking outcrops entirely, and in fact no outcrop was observed during the course of the survey.

H. D. Carlson, Resident Geologist in Timmins carried out a helicopter geological survey of Wilhelmina, Geary,

Moberly, and Thorburn Townships for the Ontario Department of Mines. During this survey, carried out in October 1964 and reported in pamphlet P.R. 1965-1, published by the Ontario Department of Mines, it was noted that the only outcrop in evidence in Geary Township is located in the northeast corner of the township. The area is considered underlain by sedimentary rock types or volcanics with basic intrusions.

Method of Survey

A grid system with line spacings of 300 feet and 100 foot station intervals was established. Combined electromagnetic and magnetometer surveys were carried out thereon. The baseline traverses the property in a north-south direction and crosslines were turned off normal to this line. Approximately 13 miles of line were cut and chained in total.

A vertical loop single phase unit was utilized for the electromagnetic survey. Readings were taken at 100 foot station separations along picket lines. Approximately 10 miles of line were covered and a total of 508 readings were taken. Four transmitter setups were adequate to complete the reconnaissance survey.

The magnetometer survey was conducted with a Sharpe MF-1 Fluxgate instrument which has a sensitivity of

20 gammas per scale division over the 1000 gamma scale. Again readings were taken at all stations totalling to 508, and a total of 10 line miles were surveyed. Approximately 400 acres were covered by the survey.

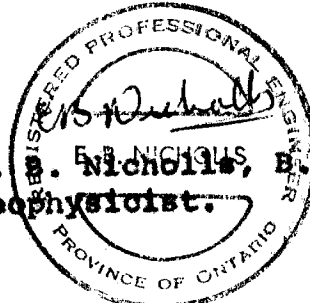
Discussion of Results

Across the entire property little or no magnetic relief was indicated by the magnetometer survey, with the background reading being in the order of 850 gammas. This suggests that one rock-type underlies the major portion of the property. However, along the west boundary of the property a pronounced north-south trend was obtained. This is probably due to one of the numerous diabase dykes that are known to exist in the general area.

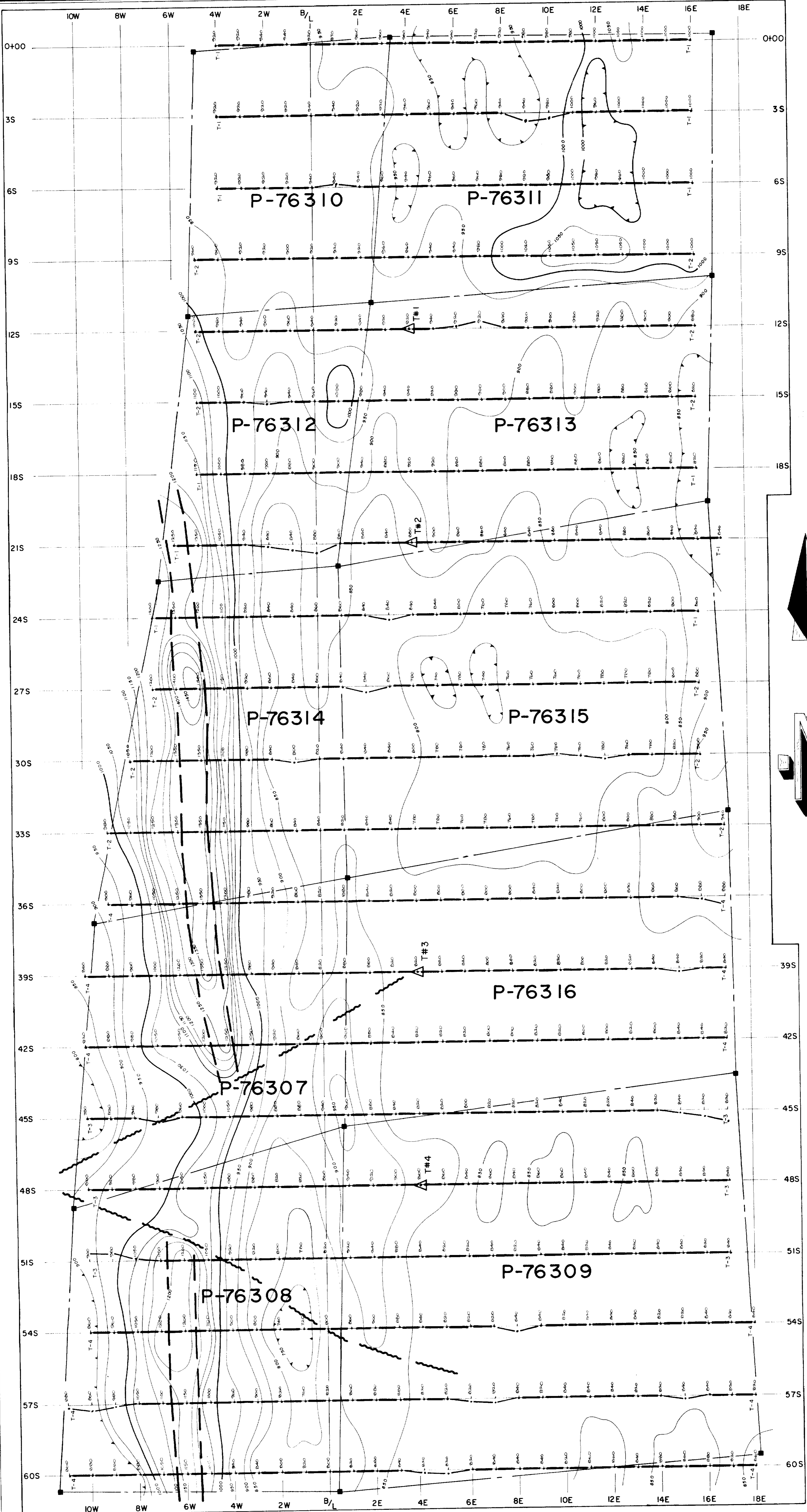
The electromagnetic survey has not located any zones of conductivity. The results obtained have, therefore, not brought forth any suggestion of an economically significant mineral occurrence within the boundaries of the property.

Respectfully submitted,

SULMAC EXPLORATION SERVICES LIMITED


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

March 4, 1965



LEGEND

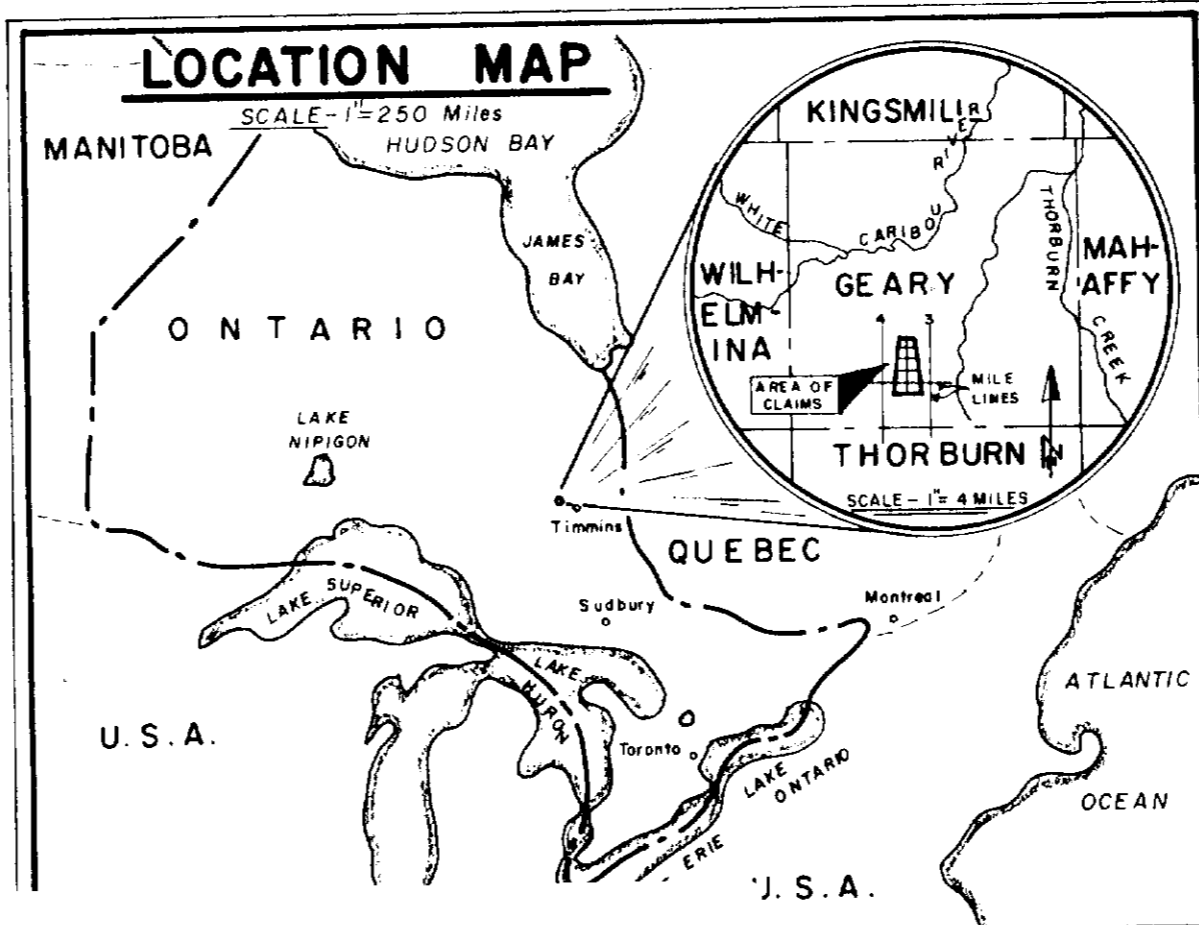
RECONNAISSANCE
 (a) Profile of Electromagnetic Reading (a)
 Dip Angle = 20°

ELECTROMAGNETIC SURVEY
 Profile of Electromagnetic Reading (a)
 Dip Angle = 20°

MAGNETOMETER SURVEY
 Contour Interval 50 Gammas
 1000, 500 gamma contour
 50 gamma contour
 Magnetic Depression

MAP SYMBOLS
 Claim Post and Claim Boundary (approx.)
 Indicated Fault from Magnetics
 Probable Dyke from Magnetics

DETAIL
 (a) Electromagnetic Transmitter Location
 (b) Transmitter Location Reference
 (c) Conductor Axis



YUKENO MINES LIMITED

GEARY TOWNSHIP-ONTARIO
 PORCUPINE MINING DIVISION
 DISTRICT OF COCHRANE

ELECTROMAGNETIC AND MAGNETOMETER SURVEY

SULMAC EXPLORATION SERVICES LIMITED
 FEBRUARY-1965

