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REPORT ON

MAGNETOMETER SURVEY

CLAIM NUMBERS 525989 AND 525990

CODY TOWNSHIP

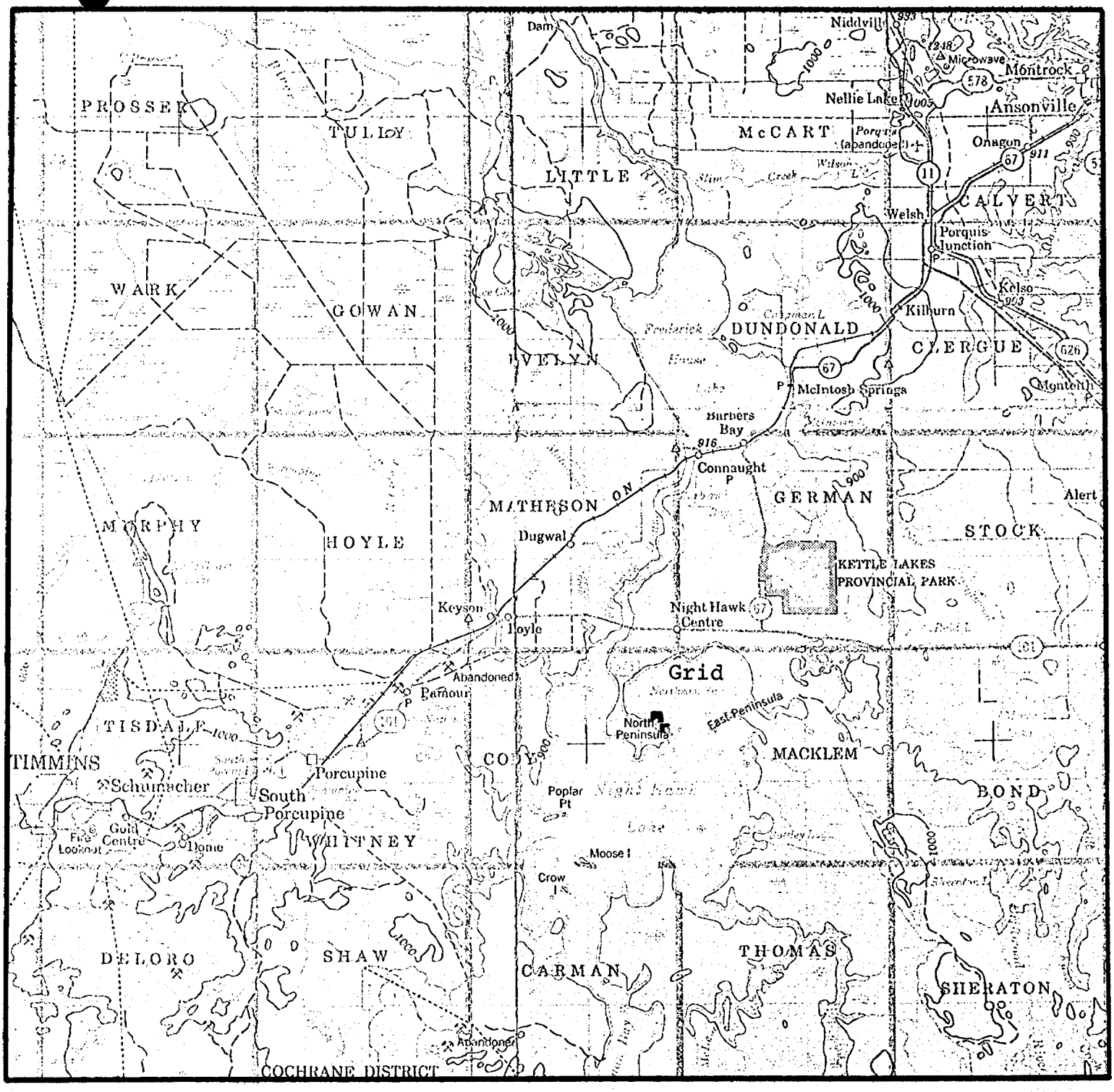
PORCUPINE MINING DIVISION

ONTARIO

BY

PAMOUR PORCUPINE MINES LIMITED

APRIL 1981



Location Map

Scale 1 inch = 4 miles

INTRODUCTION

A magnetic survey was carried out on two claims located on the northeast bay of Night Hawk Lake in the northeastern part of Cody Township, Ontario. The survey area is located near the abandon shaft on Ronocco property (claim number P-16923). Claim 525990 is located northwest of the shaft and claim 525989 is located southeast of the shaft. The survey work was carried out by Pamour Porcupine Mines Ltd., Exploration Department personnel.

The survey was conducted to identify anomalies similar to the Gold Island deposit. A magnetic survey was selected in recognition of the magnetic properties of the carbonates and shear zones. These features being associated with gold mineralization in the area.

The grid layout was done on March 1, 1981, by Joel Fink and Rob Canie of the Exploration Department, and the magnetic survey was carried out by Kian Jensen on March 3, 1981, of the Exploration Department. Interpretation and report writing was done March 13 and April 7, 1981, by Kian Jensen.

THE PROPERTY

The property, consisting of claims 525989 and 525990, is located in the northeast bay of Night Hawk Lake in the northeastern part of Cody Township, comprising of parts of Lots 1 and 2 of Concessions IV and V.

Access was gained by Highway 101, south on Highway 803, a gravel road to Gold Hawk, and by short skidoo trips on the northeast bay of Night Hawk Lake to the grid.

GEOLOGY

Due to the location of these claims, there is no geological information available. However, on the Ronocco claims, the shoreline consists of serpentine-chlorite-carbonate schist[1].

[1] Leahy, E.J., Geology of Night Hawk Lake Area, District of Cochrane, 1971, GR-96, p. 58

SURVEY SPECIFICATION

Instrumentation

Magnetic
Instrument: Geometrics G-816/826A Magnetometer
Accuracy: ±1.0 gammas
Quantities measured: Total magnetic field intensity

Procedures

Magnetic Survey

Magnetic readings were read in a looping method to establish base magnetic stations. The baseline loop traverse was completed in 15 minutes to establish an accurate set of base stations. The traverses on the survey lines were completed within ½ hour, to minimize the diurnal drift. The drift was distributed linearly with time. Base stations were established on the baseline (0 + 00) at Lines 2E, 4E, 8E, 10E, and 14E. Magnetic readings were observed at 100-foot intervals, except when anomalous readings were encountered, then the interval decreased to either 50-foot or 25-foot intervals. A total of 106 stations were established (42 on 525990 and 62 on 525989). The total line miles surveyed was 1.17 miles.

SURVEY RESULTS

Presentation

The magnetic (total field) results are presented in contour form on the enclosed map.

Interpretation

Two magnetic anomalies of interest are located in the survey area, "A" in claim 525990 and "B" in claim 525989. In claim 525990 area, the magnetic background is moderate (59300γ - 59400γ). In the southwest corner, anomaly "A" is probably due to the contact of the chloritic carbonate schist (which has a high magnetite content) and the feldspar porphyry intrusion. In claim area 525989, anomaly "B" has

a characteristic signature of an intrusive of higher magnetic content, probably a plug or dike. This is not certain as the length of this anomaly is only 200 feet. Any faults lying in the survey area have not been identified.

SUMMARY AND RECOMMENDATIONS

A A geophysical survey consisting of a magnetic survey was carried out over the property under discussion.

B A possible contact between the chloritic schist and feldspar porphyry intrusion was detected in the south-west corner of claim 525990. Also, a possible intrusive of unknown rock type was indicated in the southern part of claim 525989.

C It is recommended that a VLF survey be done to indicate any faults in the survey area. Also, a Max-Min II survey, covering the claims, may resolve the magnetic anomalies as to depth, width, and dip.

Depending on the results of the recommended geophysical surveys, drilling may be warranted to test any other anomalies.

I hereby submit that this report and accompanying map are accurate and true to the best of my knowledge and that they were completed by myself this 7th day of April, 1981.

Kian A. Jensen.

Kian A. Jensen, B.Sc.
Exploration Geologist -
Geophysicist

Ontario

Ministry of Natur

GEOPHYSICAL – GEOLOGIC
TECHNICAL DATA

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Magnetometer Survey

Township or Area Cody Township

Claim Holder(s) Pamour Porcupine Mines Limited
P. O. Bag 2010, Timmins, Ontario

Survey Company Pamour Exploration Department

Author of Report Kian A. Jensen

Address of Author 374 Patricia Boulevard, Timmins

Covering Dates of Survey March 1, 3, 13 and April 7, 1981
(linecutting to office)

Total Miles of Line Cut 1.17 miles

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Aug 20/81 SIGNATURE: Kian Jensen
Author of Report or Agent

Res. Geol. _____ Qualifications No qualifications

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	525989
P	525990

If space insufficient, attach list

TOTAL CLAIMS 2

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 106 Number of Readings 118

Station interval 25' to 100' Line spacing 200' to 400'

Profile scale

Contour interval 50 gammas

MAGNETIC

Instrument Geometrics G-816/826A Magnetometer

Accuracy -- Scale constant ± 1.0 gammas

Diurnal correction method Looping

Base Station check-in interval (hours) ½ hour

Base Station location and value BL at line 2E = 59435 γ, line 4E = 59413 γ, line 8E = 59423 γ, line 10E = 59388 γ, and line 14E = 59295 γ

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters -- On time Frequency

-- Off time Range

-- Delay time

-- Integration time

Power

Electrode array

Electrode spacing

Type of electrode

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R EXPLORATION

AWK LAKE PROJECT

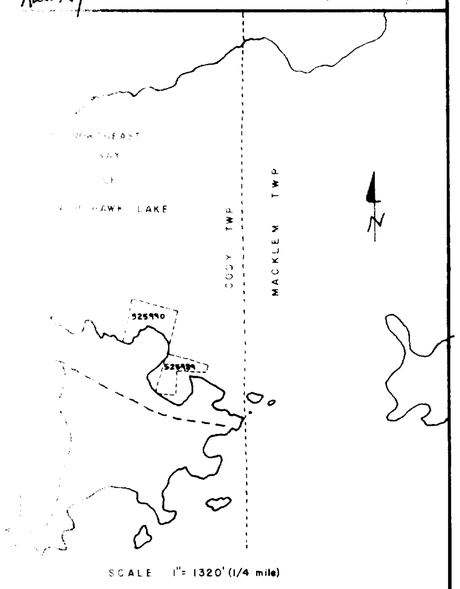
TOWNSHIP, ONTARIO.
NE MINING DIVISION

MAGNETIC SURVEY

525989 and 525990

DATE: MARCH 13, 1981
APPROVED BY: E.V.H.

K.A.J.



KEY

SHORELINE
AIM POST
CRAFT
500 GAMMAS
100 GAMMAS
50 GAMMAS
BASE LEVEL: 59000 GAMMAS
INSTRUMENT: GEOMETRICS
G816/826A MAGNETOMETER

NORTHEAST BAY OF NIGHTHAWK LAKE

L-2E L-4E L-8E L-10E L-12E L-14E L-18E L-22E

BL
2S
4S
6S
8S
10S
12S
14S
16S

525990

525989

A

B