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REPORT ON VLF-EM SURVEY

CLAIM NUMBERS 525989 AND 525990

CODY TOWNSHIP

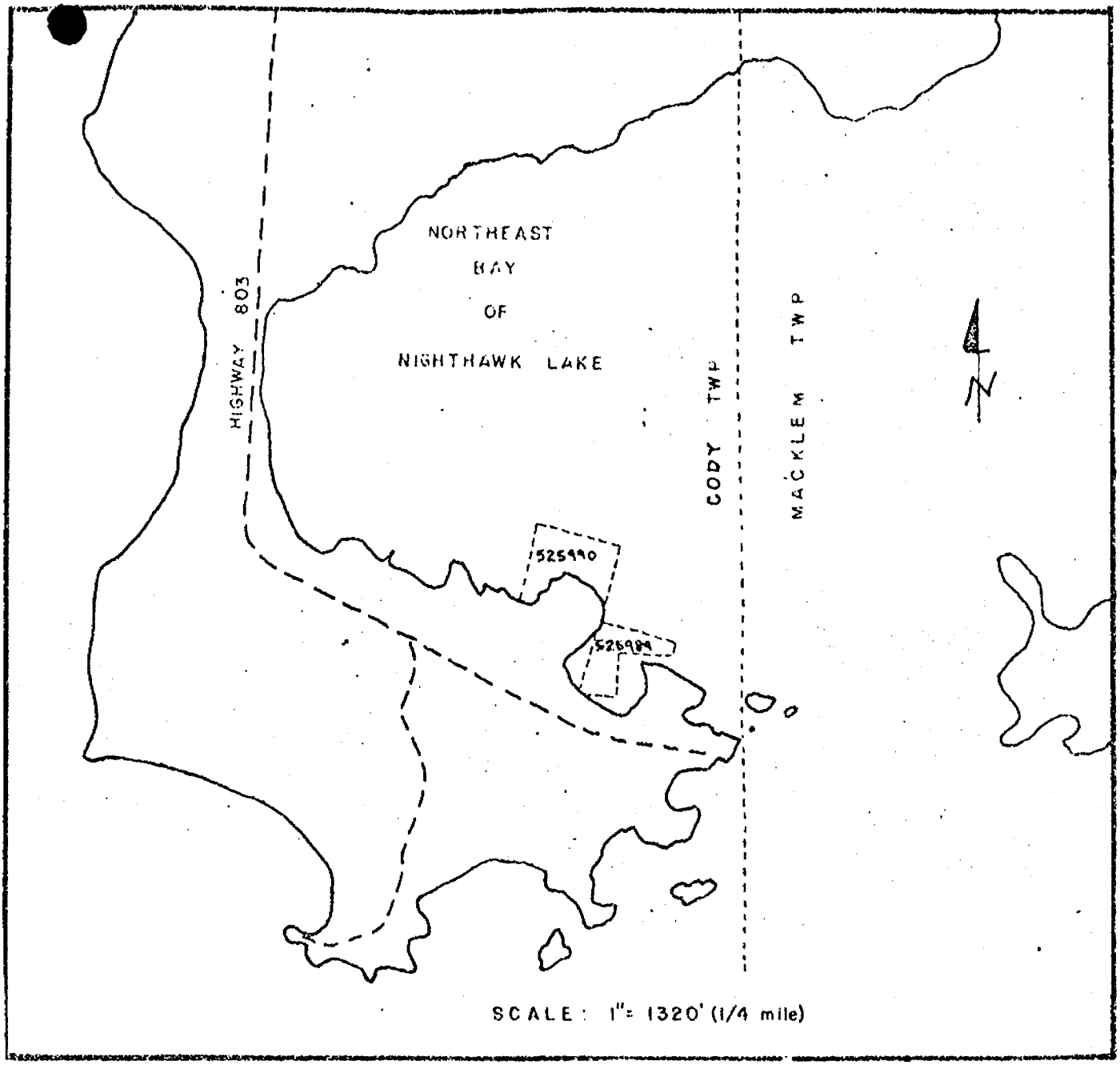
PORCUPINE MINING DIVISION

ONTARIO

BY

PAMOUR PORCUPINE MINES LIMITED

MAY 1981



LOCATION MAP

INTRODUCTION

A VLF-EM 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 abandoned shaft on Ronnoco 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 S. L. Schendel Weicker, geologist of Pamour Porcupine Mines, Exploration Department.

The survey was conducted to identify anomalies similar to those associated with gold deposits in the area (i.e., Gold Island - Gold Hawk pit area). A VLF-EM survey was selected in recognition of the conductivity of shears zones and faults. Gold mineralization has been found to be associated with these features.

The grid layout was done March 1, 1981, by Joel Fink and Robert Canie of the Exploration Department, and the VLF-EM survey was carried out by Sharon L. Schendel Weicker of the Exploration Department the same day. Interpretation and report writing was done May 26, 1981, by S. L. Schendel Weicker.

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. They comprise 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 Pit, and then by a short trip on Northeast Bay of Night Hawk Lake to the grid.

GEOLOGY

These claims are located on Night Hawk Lake. The only geology available is on the shoreline where it has been mapped

as serpentine-chlorite-carbonate schist with a felsic intrusive occurring on shore line of claim 525990 (Leahy, 1971). A gold bearing shear is also located near the shaft on the Ronnoco claim in the area.

SURVEY SPECIFICATION

A Instrumentation

VLF-EM
Instrument: Phoenix VLF-2
Frequency: Cutler, Maine 17.8 Hz
Quantities Measured: Tilt of the ellipse of polarization for the frequency

B Procedures

VLF Survey
Cutler, Maine, was read at each station. The station interval was 50 feet.

SURVEY RESULTS

A Presentation

The Cutler VLF data was profiled parallel to the lines on the enclosed map.

B Interpretation

There are 5 anomalies as indicated on the enclosed map (anomalies A, B, C, D, and E).

Anomaly A was not clearly defined as it was on the northern border of claim 525990. Anomaly B, D, and E may be indicative of a shear zone or faults as field strength increases corresponding with the crossover in dips. Anomaly C is questionable due to poor field and limited coverage on the adjacent claim.

SUMMARY AND RECOMMENDATIONS

A A geophysical survey consisting of a VLF survey was carried out over the properties under discussion.

B Several possible shear zones and faults were expressed in the area from the VLF data.

C There are 3 clearly defined anomalies (B, D, and E) which may be indicative of fault or shear zones.

D It is recommended that further geophysical surveys (PEM or Max-Min II) be done on this area. This would confirm and delineate the faults and shear zones as outlined by the VLF-EM survey. Diamond drilling would be recommended as the next step after the geophysical surveys.

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 26th day of May, 1981.

Sharon L. Schendel Weicker

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Sharon L. Schendel Weicker, BSc.
Exploration Geologist

BIBLIOGRAPHY

Leahy, E. J. (1971)
Geology of the Night Hawk Lake Area, District of Cochrane, GR-96.

Ontario

Ministry of N

GEOPHYSICAL – GEOI
TECHNICAL D

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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) Geophysical - VLF

Township or Area Cody Township

Claim Holder(s) Pamour Porcupine Mines Limited

Survey Company same

Author of Report Sharon L. Schendel Weicker

Address of Author Exploration Department P. O. Box 2010, Timmins, Ont. P4N 7X7

Covering Dates of Survey March 1, 1981 to May 25, 1981 (linecutting to office)

Total Miles of Line Cut 1.17 miles

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	–Electromagnetic	
	–Magnetometer	
	–Radiometric	
ENTER 20 days for each additional survey using same grid.	–Other VLF	20
	Geological	
	Geochemical	

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

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

DATE: June 1, 1981 SIGNATURE: Sharon L. Schendel Weicker
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3628

Previous Surveys

File No.	Type	Date	Claim Holder

10

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	525989
P	525990 1/2

Claim holdings only 1/2 that of normal survey ∴ allow only 10 days per claim.

TOTAL CLAIMS 2

If space insufficient, attach list

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 99 Number of Readings 1/station

Station interval 50 Feet Line spacing 400 feet

Profile scale

Contour interval Profiles

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Phoenix VLF-2

Coil configuration Not applicable

Coil separation Infinite

Accuracy Dip ± 1° HFS ± 25%

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

Frequency Cutler, Maine 17.8 Hz (specify V.L.F. station)

Parameters measured Dip - Source direction

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

Attachment A

The Required Information is as Follows:

Author of Report: Sharon L. Schendel Weicker

Covering Dates of Survey: Survey - March 1, 1981
Office - May 25, 1981

Type of Instrument Used: Phoenix VLF-2

Total Amount of Expenditure:

Total man days @ $65/day (3 people - 1 day)	$195.00
1 day truck rental @ $35/day	35.00
1 day report writing and drafting @ $150/day	150.00
1.17 miles of linecutting @ $170/mile	198.90
Total expenditure	$578.90

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PAMOUR EXPLORATION

NIGHTHAWK LAKE PROJECT

CODY TOWNSHIP, ONTARIO
PORCUPINE MINING DIVISION

VLF SURVEY

CLAIM NUMBERS: 525989 and 525990

SCALE: 1" = 200' DATE: MARCH 13, 1981

DRAWN BY: S.L.S.W. APPROVED BY: E.V.H.

NORTHEAST BAY OF NIGHTHAWK LAKE

N

L2E L4E L8E L10E L12E L14E L18E L22E

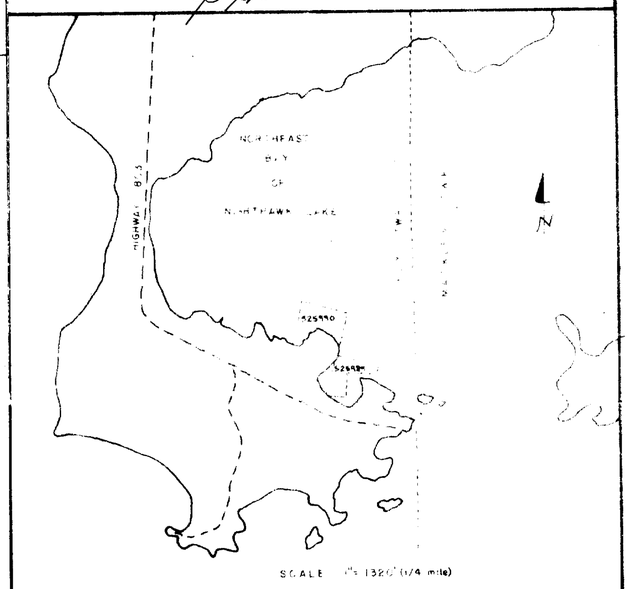
BL 2S 4S 6S 8S 10S 12S 14S 16S

525990

525989

A B C D E

H.F.S. (%) DIP (°)



SCALE 1" = 1320' (1/4 mile)

KEY

- SHORELINE
- CLAIM POST
- SHAFT
- BL BASE LINE
- DIP (DEGREES)
- HORIZONTAL FIELD STRENGTH (PERCENTAGE)

INSTRUMENT: PHOENIX VLF-2
SCALES: DIP 1"=20°
HFS 1"=100%

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