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410155W0040 2.12486 DENYES

RESULTS OF GEOPHYSICS

SYLVANITE LAKE PROPERTY

DENYES TWP., PORCUPINE MINING DIVISION

ONTARIO, CANADA

ΒY

DANIEL F. PATRIE

EXPLORATION GEOPHYSICS CONSULTANT

MAY 12, 1989

RECEIVED

MAY 17 1989

MINING LANDS SECTION

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Introduction Description of Property Details of Survey Discussion of Results - A. Magnetics B. Gradient C. V.L.F. Conclusions and Recommendations

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INTRODUCTION

An old gold prospect situated in the Swazee greenstone belt south-west of Timmins, Ontario, was perceived to offer good exploration potential due to the evidence of mineral veining and alteration in the vicinity of Sylvanite Lake, discovered by the Patrie brothers in the spring of 1988. After staking a block of 45 claims and acquiring finance, the property was mapped in full and systematically surveyed by geophysics.

The optained geophysical results form the basis for this reporting. The evaluation is undertaken in conjunction with the known geology in the vicinity of Sylvanite Lake.

DESCRIPTION OF PROPERTY

The property in question is composed of fourty (45) contiguous unpatented claims, all of 40 acres each, forming a coherent block in the end of Denyes Twp., in Sylvanite Lake area, Porcupine Mining Division. The specific claims are: 960491 - 960515 inclusive 993832 - 993839 inclusive 994536 - 994547 inclusive

The claims are registered in the names of Jean-Paul Patrie, Algoma Mills, Ontario, POR 1AO, and Daniel Patrie, Massey, Ontario POP 1PO.

Approximately 6 claims are covered by Sylvanite Lake which extends to the east and west at the top north end of the claim block.

Around the lake the terrain comprises of a mixture of small cedar swamps and small hills, with the latter forested with a mixture of pine and poplar trees. A scatter of small outcrops appear to the south of clims.

Access to the property is best by float or ski plane to Sylvanite Lake from Chapleau Ontario. The Thessalon Chapleau road passes approximately 30 miles to the West. The main C.P. trans-continental rail-line lies approimately 10 miles to the south. DETAILS OF SURVEY:

On grid lines prepared for gradient, v.l.f. and magnetic surveys have been conducted over all of the 45 claims.

The linecutting, picketing and chaining essential to the grid prepartion was under contract by (Dan Patrie Expl. Ltd) A base-line oriented 117 degrees with one sub-bl controlled a grid of north-south parallel lines of 100 feet apart. The geophysics readings were at 100 foot intervals throughout the survey.

The v.l.f. survey was taken utilizing the primary (24.0 KHZ) transmission of NAA located at Cutler, Maine USA. Observations of the in-phase and quadrature components of the secondary field were carried out using an E.D.A. VLF/MAG OMNI PLUS instrument properly tuned. The on-line reading interval was 100 feet throughout the whole grid.

The magnetic readings were taken at 100 foot intervals. The E.D.A. VLF/MAG OMNI PLUS was also used for supplying a measure and store the magnitude of the earth's magnetic field independent of it's direction to a sensitivity of 0.2 gammas. Corrections for diurnal drift by setting up a base station. Final values are estimated to be accurate within +- 5 gammas overall.

The gradiometer readings were also taken at 100 foot intervals and plotted.

All data, after the necessary processing and editing have been plotted and included in this report.

DISCUSSION OF RESULTS:

A. MAG

From the mag data collected on the entire grid, there proves to be many areas of interest. There appears to be a major magnetic system with response levels 100 to 1200 gammas above the background to the North East of the claim block. Intervening is an outcropping quarts viening and carbonatization documented in the no.2 showing.

B. GRADIENT

The gradient anomolies which should be looked at in more detail, correspond with the mag.

C. V.L.F.

There exists considerable V.L.F. response in the area. From the data collected, there are 4 major targets outlined. No.1 at the fuchsite zone, no. 2 the middle of Sylvanite Lake, no.3 North shore of Sylvanite Lake, no.4 to the South East of no.2 gold showing. With major sulphides found in the area, such as Au, chalcopyrite, arsenopyrite, and pyrite, which make the targets conductive and thereby easily detected with geophysics. There will have to be more work done on the grid to pick out priority targets.

CONCLUSIONS AND RECOMMENDATIONS:

Through the considerations of the present geophysical results in the consort of the outcrop geology, it is possible to reach the conclusion that the mineral possibilities of the group of 45 claims reside along the 4 most likely geophysical targets, which are: no.1 on line 28W. to 20W. at38 S. TO 45S. no.2 on lines 28E to 32E. at 32S. no.3 lines 8W TO 16W at 200 south of base line, which is situated in the middle of Sylvanite Lake. No.4 on lines 4S and 8S. at 8S.

With the many geophysical targets on the property, to verify any massive sulphides, I recommend horizontal loop (max-min) with a cable length Of 400 feet with 2 frequencies being used.

A detail five level dipole-dipole induced polarization setups having an a spacing of 50 feet is recommended over selected targets.

Also, a geochem survey with samples assayed and plotted covering all of grid.

From this program drill targets can be obtained and a drill program outlined.

APPENDIX

PROPERTY: Sylvanite Property, Swazee Area ASSESSMENT INFORMATION No. of claims: 45 Location: Denyes Twp., Porcupine Mining Division, Ontario. Line-cutting & chaining, and Geophysics 45 Miles Dates of Field Operation: August to December, 1988 Contractor: Line Cutting, Geophysics, Data Processing Interpretation and Reporting: Dan Patrie Exploration Ltd. P.O. Box 45 Massey, Ontario POP 1PO Personnel: i) Grid Preperation - contract crew of (6) ii) Geophysics Surveys - D. Patrie, B. Patrie

> iii) Data Processing, Presentation, Interpretation and Reporting

- D. Patrie

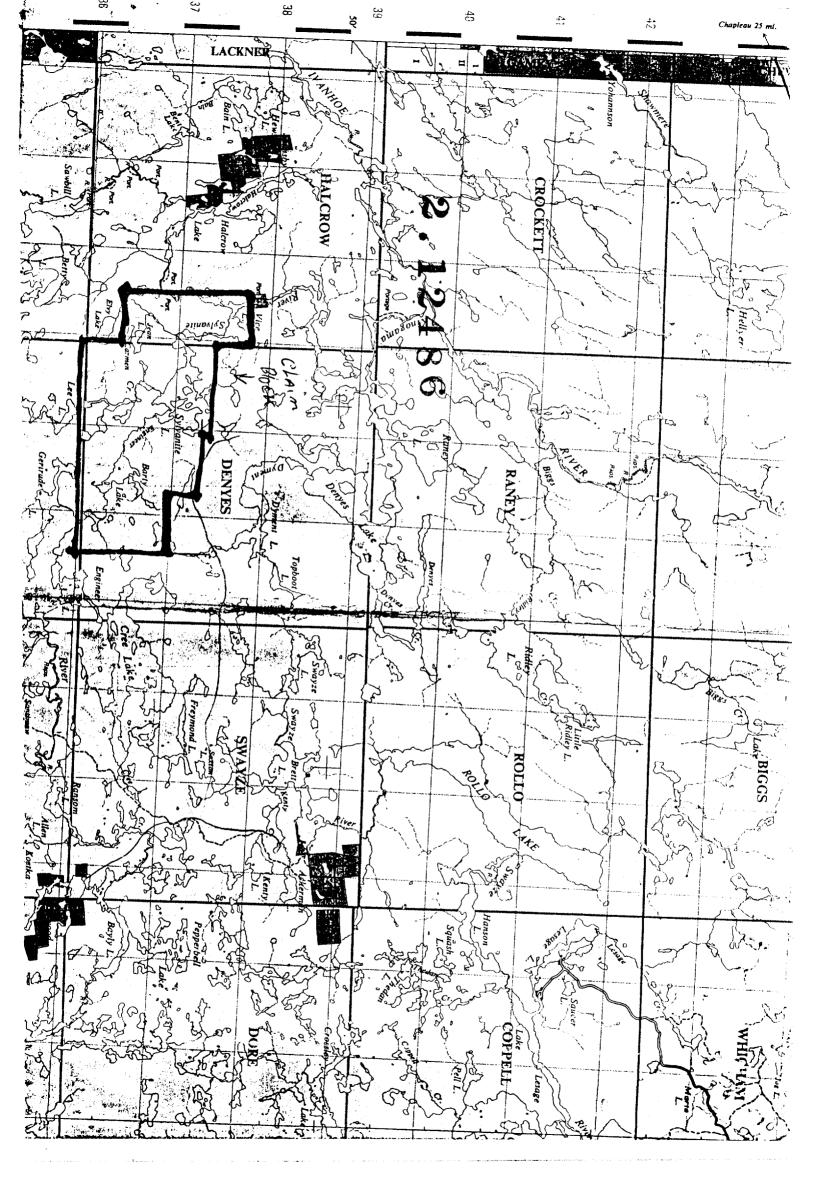
CERTIFICATE OF QUALIFICATIONS

- I, Daniel Francis Patrie do hereby certify:
- 1. that I am a geological engineering technologist and reside at highway 17 W. Massey, Ontario, POP 1PO,
- 2. that I graduated from Cambrian College in Geological Engineering in 1987,
- 3. that I have practised my profession continuously since,
- 4. that I have been prospecting since 1972.
- 5. that my report on the Sylvanite Patrie property is based on my personnel knowledge of the geology and geophysics data of the area on the 45 claim block and on a review of published and unpublished information on the property and surronding area.

D.F.PATRIE GEOLOGY ENGINEERING TECHNOLOGIST

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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

September 19, 1989

Mining Lands Section 880 Bay Street, 3rd Floor Toronto, Ontario M5S 1Z8

Telephone: (416) 965-4888

Your File: W8906-224,226,267 Our File: 2.12486

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Re: Notice of Intent dated August 16, 1989 for Geophysical (Magnetometer, and Electromagnetic) Survey submitted on Mining Claims L 994536 et al in Denyes Township.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan Provincial Manager, Mining Lands Mines & Minerals Division RM RM:eb Enclosure

cc: Mr. G.H. Ferguson Mining and Lands Commissioner Toronto, Ontario

> Jean P. Patrie P.O. Box 105 Algoma Mills, Ontario POR 1A0

Dan Patrie P.O. Box 45 Massey, Ontario POP 1PO ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE SEP 2.0 1989 RECEIVED

> Resident Geologist Timmins, Ontario



Technical Assessment Work Credits

August 16, 1989

2.12486 Work Recorder's Report of W8905-226

File

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Recorded Holder DANIEL F. PATRIE	
Township or Area DENYES TOWNSHIP.	
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Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic32days	P 994536 to 547 incl.
Magnetometer 18 days	
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Induced polarization days	
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Section 77 (19) See "Mining Claims Assessed" column	
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Credits have been reduced because of partial coverage of claims.	
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exceed the maximum allowed as follows: Geophysical +80; Geologocal +40; Geochemical +40; Section 77(19) -60.



Technical Assessment Work Credits August 16, 1989

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Hecorded Holder JEAN P. PATRIE	
Township or Area DENYES TOWNSHIP.	
Type of survey and number of	Mining Claims Assessed
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exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



J Mines

File 2.12486 Date Mining Recorder's Report of W8906-267 <u>August 16, 1989</u>

2

Recorded Holder						
DANIEL F. PATRIE						
DENYES_TOWNSHIP.						
Type of survey and number of						
Assessment days credit per claim Geophysical	Mining Claims Assessed					
Electromagnetic 33 days	P 993832 to 839 incl.					
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Radiometric days						
Induced polarization days						
Other days						
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Special provision 🔣 Ground 🔀						
Credits have been reduced because of partial						
coverage of claims.						
Credits have been reduced because of corrections to work dates and figures of applicant.						
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not sufficiently covered by the survey	insufficient technical data filed					
Note: Credits not allowed for Gradiometer Survey as derived from						
Magnetometer data.						

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DOCUMENT NO. Instructions: - Please type or print. Ministry of **Report of Work** - If number of mining daims traversed W 8906-267 Northern Development exceeds space on this form, attach a list. (Geophysica!, Geological, **/**ines Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend, Days Cr." columns. Geochemical and Expenditures) Distario Mining Act 212486 in the "Expend. Days -— Do not use shaded areas below. Type of Survey(s) Line cutting: & Geophysics Claim Holder(s) Digniel F. Patrie Address Prospector's Liconce No. C-32612 Prospector's Liconce No. C-3 P. O. MASSEY ONT. DISCY ONT POP IPO Mining Claims Traversed (List in numerical sequence) Dan Patrie 45 Bex Credits Requested per Each Claim in Columns at right **Special Provisions** Mining Claim Days per Claim Expend. Days Cr. Mining Claim Expend. Days Cr. Geophysical Prefix Prefix Numbe Number For first survey: - Electromagnetic S. 993832 40 Enter 40 days, (This includes line cutting) Magnetometer 20 993833 1 - Radiometric 983834 For each additional survey: 30.00 using the same grid: · Other gradie. 20 122 983835 Enter 20 days (for each) Geological 983836 Geochemica 222 553837 S. Man Days Days per Claim Geophysical 953838 -Complete reverse side Electromagnetic 983839 and enter total(s) here Magnetometer - Radiometric Ξ. - Other \mathcal{F}_{1}^{1} Geological Geochemical RECORDED Airborne Credits Days per Claim Note: Special provisions Electromagnetic 'MAY--8-1989 credits do not apply RECEIVED Magnetometer to Airborne Surveys. \mathbb{R}^{2} Badiometric MAY 15 1989 Expenditures (excludes power stripping) Type of Work Performed MINING LANDS SETTION Performed on Claim(s) Total Days Credits Aat Expendituses 1989 Ś Total number of mining 8 claims covered by this report Iotal Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded in columns at right. Recorded MAY 8 Date Recorded Holder or Agent (Signature) te Approved Davil 00 MA Certification Verifying Report of World I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. ving Box 45 Massey OnT- POP IPC Date Certified Cortified Date (Signature) Name and Postal Address of Person Certifying Patrie P.O. DAn 1762 /86/12



Ministry of Northern Development and Mines Geophysical-Geological-Geochemical Technical Data Statement

TO BE ATTACHED AS AN APPENDIX TO TECHN FACTS SHOWN HERE NEED NOT BE REPEATEI **TECHNICAL REPORT MUST CONTAIN INTERPRETATIO!** Type of Survey(s) Geophysics Denves Township or Area Patrie DANIEL Claim Holder(s)_ Patrie Jean Survey Company Dan Patrie Author of Report Dan Patrie Address of Author <u>R.O. Box 45</u> Pop IPO MASSEN 1 Ont. December 1988 Covering Dates of Survey. AUSUST-(linecutting to office) miles Total Miles of Ring Out 1989 SPECIAL PROVISIONS DAYS **CREDITS REQUESTED** per claim Geophysical MINING LANDS SECTION 40 -Electromagnetic_ ENTER 40 days (includes 20 -Magnetometer_ line cutting) for first -Radiometric. survey. -Otherlecadient 20 ENTER 20 days for each additional survey using Geological_ same grid. Geochemical. AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) __Electromagnetic_ Radiometric Magnetometer_____ (enter days per claim) DATE: MAY 12 SIGNATURE: 2.12115 Oualifications ____ Res. Geol. **Previous Surveys** File No. Туре Claim Holder Date

File

OFFICE USE ONLY

TOTAL CLAIMS $\underline{+5}$

837 (85/12)

SELF POTENTIAL

Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden (type,	
(type,	depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING	ETC.)
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Accuracy2	
Parameters measured	
Additional information (for understanding result	ts)
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AIRBORNE SURVEYS	
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Instrument(s)	
(speci:	fy for each type of survey)
Accuracy(speci	fy for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

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Numbers of claims from which samples taken_____

Total Number of Samples								
Type of Sample (Nature of Material) Average Sample Weight	─ Values expressed in: per cent □ p. p. m. □ p. p. b. □							
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)							
Soil Horizon Sampled	Others							
Horizon Development	Field Analysis (tests)							
Sample Depth	Extraction Method							
Terrain	Analytical Method							
	Reagents Used							
Drainage Development	Field Laboratory Analysis							
Estimated Range of Overburden Thickness	No. (tests)							
<u>.</u>	Extraction Method							
······································	Analytical Method							
	Reagents Used							
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests)							
Mesh size of fraction used for analysis	Name of Laboratory							
	Extraction Method							
	Analytical Method							
	Reagents Used							
General	General							
·	·							

GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS – If more than one survey, specify data for each type of survey									
	Approximately 5-Miles of B.h. & T-L notucled									
N	umber of Stations <u>2036</u> Number of Readings <u>2036</u>									
St	ation interval 100 Line spacing 400									
	ofile scale / : 600									
C	ontour interval MAS 100, Gradient 5, VLF 5									
MAGNETIC	Instrument E. D. A OMIVIT Plus Mag/VLF									
	Accuracy – Scale constant $- + \cdot 2$									
	Diurnal correction method Base station									
	Base Station check-in interval (hours) 30 Seconds									
	Base Station location and value <u>Line 400</u> , 9 00 S.									
	Refficial 60,000, DATUM SUBT. 59,800 FARMAS									
<u>stric</u>	Instrument E. D. A OMNI- Plus MAS/VLF									
	Coil configuration									
UN	Coil separation									
MA	Accuracy 75									
RO	Method: EFixed transmitter Shoot back In line Parallel line									
ECI	Frequency 240, cutles Maine U.L.F. (specify V.L.F. station)									
ΕL	(specify V.L.F. station)									
	Parameters measured in phase, guadrature									
	Instrument									
X	Scale constant									
T	Corrections made									
KA										
5	Base station value and location									
	Elevation accuracy									
	Instrument									
	Method 🗌 Time Domain									
RESISTIVITY	Parameters - On time Frequency									
	– Off time Range									
	– Delay time									
	– Integration time									
REC	Power									
· 1	Electrode array									
	Electrode spacing									
	Type of electrode									

INDUCED POLARIZATION

