6NE8257 2.3915 KABIK LAKE

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### SIOUX LOOKOUT AREA

PROJECT 3353

### FAIRSERVICE OPTION and OJIBWAY LAKE CLAIMS

### N.T.S. 52F/16

GEOPHYSICAL REPORT

H.L.E.M.SURVEY

MAGNETOMETER SURVEY

N.W. Rayner 2.1785 J.L. Wright 2.2330

2.3915

April, 1981



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### INTRODUCTION

This report describes ground electromagnetic and magnetic surveys carried out on a group of 37 claims in Pickerel Township of Northwestern Ontario. The results of the surveys are plotted on maps found in the pocket at the back of this report.

# PROPERTY, DESCRIPTION and LOCATION

The claims covered by this report started out as a group of four (4) claims 566803-566804 and 566806-566807, called the Ojibway Lake Property. An additional five (5) claims 589032-589036 were staked. Then an option agreement was made with R. Fairservice to acquire twentyeight (28) adjoining claims which makes up the present claim group. The claim map found at the back of this report shows the location of the claim group and the claim numbers.

The property is located sixteen (16) miles southwest of Sioux Lookout on highway 72.

### ACCESS

Access to the property is by truck from Sioux Lookout, a distance of sixteen (16) miles on highway 72.

### HISTORY OF PREVIOUS WORK

The earliest reference to the geology of the Sioux Lookout area is contained in a report by R.Bell in Report on the Country between Lake Superior and Lake Winnipeg, Geol. Surv. Can. Sum. Rept., 1872, p.101, 102. See the list of publications at the end of the report for other previous work in the area. The following list outlined work done by exploration companies.

1950 - Eagle Land Gold Mines - geological mapping and diamond drilling 1950-51 - Quyta Gold Mines - diamond drilling

1950 - Realmont Red Lake Gold Mines - diamond drilling

For details of the above work see O.G.S. data series map P.2333 Kabik Lake-Pickerel Township Area.

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### WORK DONE BY ST. JOSEPH EXPLORATIONS LIMITED

- 1980 AEM Survey
- 1980 Claim staking and linecutting
- 1981 Ground geophysics H.L.E.M. and Mag (this report)
- 1981 Option of claims and linecutting

GENERAL GEOLOGY

The Ojibway Lake claims and the Fairservice Option claims are underlain mainly by mafic volcanics in the form of pillowed flows and variolitic flows. The sequence is south facing. The pyroclastic rocks occur in lesser abundance. They include tuffs and agglomerates which have been in part recrystalized to a point where the tuffs look like feldspar porphyry dikes. Areas of fine grained light grey rhyolite may be porphyry sills. These rocks are cut by up to 40' wide granodiorite dikes which can be traced for 3000'. The granodiorite dikes are the host for numerous quartz veins which in some localities carry gold mineralization.

### SURVEY PROCEDURE

Both the magnetic and H.L.E.M. surveys are discussed separately i. the following.

### Magnetic Survey

Diurnal control was provided by a continuously recording magnetic base station which monitored the earth's field each minute to a resolution of  $\pm 5$  gammas. Output was via a paper strip chart recorder. From this chart additive corrections could be scaled to be applied to the field data. The base value was arbitrarily set to be 60500 gammas, with the base station located at 41 Lakeshore, Sioux Lookout, Ontario. Before plotting the diurnally corrected data had a datum of 60000 gammas subtracted. These values were plotted upon a grid map at a scale of 1:5000 and contoured at an interval of 500 gammas. Following is a list of logistical details concerning the program.

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Instrumentation:

	Scintrex MBS2 Base Station
Base Station Location:	41 Lakeshore, Sioux Lookout, Ontario
Base Station Value:	60500 ganmas
Datum Subtracted:	60000 gammas
Line Spacing:	100m
Station Interval:	25m
Personnel:	J.R.Newall, P.Churcher, D.Windsor, T.Hamilton
Survey Dates:	Jan. 12, Feb. 5-13, March 21-23, 1981
Parameter Read:	Amplitude of total magnetic field

Barringer GM122 Magnetometer

Details concerning equipment specifications can be found in Appendix A. A print of the aforementioned map can be found in the map pocket at the rear of the report.

### Horizontal Loop Electromagnetic (H.L.E.M.) Survey

A standard horizontal loop survey was done which recorded the amplitude of the secondary electromagnetic field to a resolution of  $^+0.5$ %. This is expressed as a percentage of the primary field. The secondary field is decomposed into its in-phase and out-of-phase components. These values were plotted upon grid maps at a scale of 1:5000 in standard profile form using a profile scale of 1 cm = 20%. Two (2) plots exist one for each of the two frequencies. Details concerning the plotting convention can be found upon these plots, prints of which are in the map pocket at the rear of the report. Further details concerning the survey appear below.

Instrumentation:	Apex ParametricsMax-Min II
Frequency:	444 Hz & 1777 Hz
Coil Separation:	100m
Station Interval:	25m
Line Spacing:	100m
Personnel:	I.Lowe-Wylde, A.P.Drost, P.Churcher, T.Hamilton, J.R.Newall
Survey Dates:	Feb. 6-9, March 18-25, 1981
Parameters Read:	In-phase and Out-of-phase percentages of the secondary electromagnetic field

Details concerning equipment specifications can be found in Appendix B.

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#### INTERPRETATION

Each survey is reviewed separately in the following. Results will be codified later during the conclusions.

### Magnetic Survey

Background over the grid seems to be in the 60500 gamma range with a regional `trend rising to the southwest at a rate of 120 gammas/km. Superimposed on this regional trend is much high frequency anomalism showing a total amplitude of generally around 6000 gammac. Texturally the map is fairly unusual being almost totally covered by high frequency, short strike length anomalies of moderately large amplitude. Indeed it appears as a jumbled mass of anomalies. Only one fairly persistent linear trend exists. Line locations are as follows:

L35E,	350N	L39E,	375N	L43E,	325N	147E,	250N	L51E,	100N
L36E,	350N	L40E,	375N	L44E,	31.5N	148E,	225N	L52E,	100N
L37E,	350N	L41E,	375N	145E,	275N	L49E,	200N		
L38E,	350N	LA2E,	335N	L46E,	300N	L50E,	150N		

Some broad banding can also be noted. Three broad bands of relatively lower amplitude anomalism traverse the grid. End point line locals are listed below.

- 1) L37E, 575N to L44E, 600N
- 2) L30E, 300N to L52E, 150S
- 3) LO, 650S to L29E, 350S

These likely represent distinct rock units or changes in lithology. Dikes are not particularly indicated.

### Horizontal Loop Electromagnetic (H.L.E.M.) Survey

No bedrock conductors of note are found on the entire grid. Much out-of-phase role occurs in the 1777 Hz data over much of lines 28E to 73E and most likely results from overburden and/or shear zone conduction effects.

## RECOMMENDATIONS and CONCLUSIONS

No obvious base metal targets were outlined by the work presented herein. However, precious metals may be associated with some of the magnetic features noted. Detailed geologic mapping accompanied by soil geochemistry is suggested. Input from this will guide any further geophysical work.

James 2. Wright J.L. Wright May 1981 Ş 330

N.W. Rayner

# A P P E N D I X A

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### (ii) Magnetometer Instrument Data

General Description, Principle of Operation

If a proton rich fluid such as Kerosene, jet fuel, heptane, etc. is placed into a magnetic field the protons will align along the magnetic field vector. The magnetic field is induced in the sensor upon depressing the pushbutton. Then this field is suddenly removed. Protons which behave as elementary gyroscopes will start precessing around the remaining magnetic field that of the earth. The precession frequency is directly proportional to the magnetic field of the earth. The magnetometer counts this frequency, divides it by the appropriate constant to obtain a reading in gammas and displays the reading in the form of a 5 digit number. HODEL CH-122

# SPECIFICATIONS

Range:

Accuracy:

Sensitivity: Gradient Tolerance: Power: Power Consumption: Polarizing Power:

Number of Readings with l'Battery Set:

Frequency of Readings:

Controls:

Output:

Indicators:

20,000 to 99,999 In 12 ranges ± 1 γ through operating temperature range 1 γ

600 y/ft.

12\_""D" cells

< 50 Joules (Wsec) per reading

0.8 A @ 13.5 V for 1.5 sec. (3 second cycle)

0.8 A @ 13.5 V for 3 sec. (6 second cycle)

2,000 - 10,000 depending on type of batteries

1 every 3 seconds 1 every 6 seconds

Pushbutton switch Range Selection switch - Slide switch for 3 and 6 sec. located on P/C Board

5 digit incandescent filament . readout

LED point Lock Indicator - last three digits of the display blanked off when phaselock not achieved Segment Function Indicator - all segments light up to permit visual Inspection of the display function

Mechanical:

Dimensions - 7" X 3.5" X 11" Instrument: (18 cm X 9 cm X 28 cm) Weight - 8 lbs (3.6 kg) including batteries Sensor: Omnidirectional noise cancelling toroidal sensing head Dimensions - 4 7/8" (12 cm) diameter - 4 3/8" (11 cm) height Welght -3 lbs (1.4 kg) Ambient Conditions: Operating Temperature Range + -40°F to 131°F (-40°C to 55°C) Relative Humidity - 0 to 100% Environmental:

Instrument and sensor case made of high Impact plastic

# SCINTREX

### TOTAL FIELD MAGNETIC BASE STATION

MODEL MBS-2

## SPECIFICATIONS:

Resolution Total Field Accuracy

· 1 gamma

+ 1 gamma over full operating range

Operating Range

Gradient Tolerance Sensor

Sampling Rate

Clock Accuracy and Stability

Visual Outputs

External Outputs

Time Marker

20,000 to 100,000 gammas in 25

overlapping switch selectable steps

Up to 5000 gammas/metre

Omnidirectional, shielded, noisecancelling, dual coil

Internal control: switch selectable every 2, 4, 10, 30 seconds or 1,2,10 minutes

External control: manual command or by external clock at any rate longer than 2 seconds. For external trigger, a positive transition from 0 to +4V or greater initiates one reading

+ 10 ppm over full temperature range

5 digit light cmitting diode numerical display lasting 0.1 seconds in automatic recycle mode and 1.7 seconds in manual mode.

Internal strip chart recorder with 65 mm chart width and 100 or 600 mm/hr chart speed. Inkless recording. Switch s lectabl at 10, 100 or 1000 gammas full scale

5 digit, 1-2-4-8 BCD DTL, TTL compatible (2 loads) with 0.5 msec, 5V pulse for synchronization of MBS-2 and external recorder.

Analogue récorder output of 1V at 1 mA max. Switch selectable for 10, 100 or 1000 gammas full scale.

A 1.5 second pulse every 10 minutes generates a time mark on the internal or on external analogue recorders.

For an external analogue recorder, a switch to ground is provided (NPN transistor, 40V max., 250 mA max). No side pen is required for continuously writing recorders as the pen returns to zero at every event mark.

Intervals of less than 10 minutes are

### Sensor Cable

### Power Requirement

Battery Test

Operating Temperature Range

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Dimensions

Weights

Shipping Weight Optional Accessories

### 50 m length is standard

The internal batteries of the MP-2, (8 "D" cells) are used to power all functions of the MBS-2. This power source lasts approximately 80 hours, at 259C and a once per minute sampling interval.

An external 10 to 32V DC supply may alternatively be used.

Current drain is approximately 0.9A during polarize time and 35 mA during standby, depending upon supply voltage.

Digital readout of normalized internal battery voltage activated by touching switch.

Console: O to 50°C Sensor: -35 to 50°C

Console: 140 mm x 310 mm x 390 mm Sensor: 80 mm diameter x 150 mm length Tripod: 130 mm extended length

Console: 7.7 kg Sensor with cable: 5.5 kg Tripod: 1.5 kg.

### Approximately 18 kg

Sensor monopod, harness, sensor backpack and 2 m sensor cable allow field portable survey use of MP-2 magnetometer. See MP-2 specification sheet.

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#### MAMIN EN 11 SISIEM

The Maxmin II is a two-man continuously portable EM system. It is designed to measure both the vertical and horizontal in-phase (IP) and quadrature (QP) components of the anomalous field from electrically conductive zones.

The plane of the transmitter (Tx) is kept parallel to the mean slope between the transmitter and receiver (Rx) at all times. The Maxmin II is a horizontal loop (HL) system when the receiver measures anomalous components perpendicular to the mean slope between the coils. It is a minimum coupled (Min C) system when the receiver measures anomalous components parallel to the mean slope between the coils.

### APEX MAXMIN II EM SYSTEM SPECIFICATIONS

OPERATING FREQUENCIES: MODES OF OPERATION: 222, 444, 888, 1777 and 3555Hz.

- a) Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal loop mode). Used with reference cable.
- b) Transmitter coil plane horizontal and receiver coil plane vertical (Mincoupled mode). Used with reference cable.
- c) Transmitter coil plane vertical and receiver coil plane horizontal, tilted for null in the receiver output. (Vertical loop mode). Used without reference cable, in parallel lines.
- 25, 50, 100, 150, 200 and 250nvm (MM II) or 100, 200, 300, 400, 600 and 800 ft. (MM II F). Coil separations in mode c) not restricted to fixed values.
- a) In-Phase and Quadrature components of the secondary field in modes a) and b).
- b) Tilt-angle of the total field in mode c).

COIL SEPARATIONS: (modes a and b)

PARAMETERS MEASURED:

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**READOUTS:** 

SCALE RANGES: '

READING REPEATABILITY:

TRANSMITTER DIPOLE MOMENT:

RECEIVER BATTERIES:

TRANSMITTER BATTERIES:

REFERENCE CABLE:

INDICATOR LIGHTS:

OPERATING TEMPERATURE: WEIGHT OF RECEIVER UNIT: WEIGHT OF TRANSMITTER UNIT:

VOICE LINK:

- a) Automatic, direct readout on 90mm (3) edgewise meters in modes a) and b). nulling or compensation necessary.
- b) Tilt-angle and null on 90mm (3½") edgewise meters in mode c).

In-phase:  $\pm$  20% normal,  $\pm$  100% by switch Quadrature:  $\pm$  20% normal,  $\pm$  100% by swit Tilt:  $\pm$  75% slope

Null: Null sensitivity adjustable by separation switch.

 $\pm$   $\frac{1}{2}$ % to  $\pm$  % normally, depending on conditions, frequency and coil separation used.

150  $\Lambda \tan^2 \Theta' 222 Hz$ , 150  $\Lambda \tan^2 \Theta' 444 Hz$ , 90  $\Lambda \tan^2 \Theta' 888 Hz$ , 40  $\Lambda \tan^2 \Theta' 1777 Hz$  and 30  $\Lambda \tan^2 \Theta'$  3555 Hz.

9V transistor radio type, 4 batteries Life: approx. 35 hrs. continuous duty (alkaline; .5Ah), less in cold weather.

- a) 12V7.5Ah Gel-Cell rechargeable batteries (2 x 6V in series)
- b) 18V21Ah alkaline lantern batteries
  (3 x 6V in series). Transmitter
  current drain 0.5A to 2.2A depending
  on operating frequency.

Light weight, special teflon cable for minimum friction. Unshielded. All reference cables option at extra cost. Please specify.

Built-in intercom system for voice communication between receiver and transmitter operators.

Built-in signal and reference warning lights to indicate erroneous readings.

 $-40^{\circ}$ C to + 60^{\circ}C ( $-40^{\circ}$ F to + 140<sup>o</sup>F)

6kg (13 lbs.)

Typically 65 kg (143 lbs.), depending on quantities of reference cable and batteri included. Shipped in two shipping/field cases.

Built-in intercom system for voice communication between receiver and transmitter operators.

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# Ministry of Natural Resources

File\_\_\_\_\_

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# GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

### 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) Geophy	sical - H.L.E.M. & Magnetic	
Township or Area Picker	el Township	
Claim Holder(s) St. Jos 2161 9 Toront	eph Explorations Limited onge Street, Suite 301, co, Ontario. MAS 3A6	List numerically
Survey Company as abo	we	S_A_L
Author of Report N.W. R	ayner & J.L. Wright	E (prenx) I (rumber)
Address of Authoras abc	ve	À T
Covering Dates of Survey Fe	bruary 12 - April 30, 1981	C II F
Total Miles of Line Cut		D
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical per claim	
ENTER 40 days (includes line cutting) for first	-Electromagnetic 40 -Magnetometer 20	-
survey.	-Radiometric	-
ENTER 20 days for each	-Other	
same grid.	Geological	•
8·····	Geochemical	
AIRBORNE CREDITS (Special MagnetometerElectron	provision credits do not apply to airborne survey magnetic Radiometric nter days per claim)	•) 
DATE:SIG	GNATURE:Author of Report or Agent	
Res. GeolQ	ualifications	
Previous Surveys		
File No. Type Date	c Claim Holder	
		TOTAL CLAIMS37

# GEOPHYSICAL TECHNICAL DATA

	<u>GROUND SURVEYS</u> -	- If more than one survey, spe	cify data for each type	of survey	
	Number of Stations	H.L.E.M 2121 Magnetic - 2387		H.L.E. Readings Magnet	M 2121 😧
	Station interval	25m (both surveys)	Line spacin	r100m (	(both surveys)
	Profile scale	H.L.E.M. = $lcm = 20$ %		Magnetic - n/a	1
,	Contour interval	H.L.E.M. = n/a		Magnetic' - 500	) gannas
•	· · · · · · · · · · · · · · · · · · ·				the second s
	astrument	Barringer GM122 Magne	tometer/Scintrex M	BS-2 Base Stati	ion
TIC	Accuracy $-$ Scale co	nstant -1\ gamma			
E Z	Diurnal correction m	Continuously r	ecording base stat	ion	
AAC AAC	Base Station check-i	n interval (hours) Reading e	ach minute		
. 4	Base Station location	and value 41 Lakesh	ore, Sioux Lookout	, Ontario	
•	,	'Base Valu	e - 60500 gammas		, , , , , , , , , , , , , , , , , , ,
	······································	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·		
C	) Instrument	Apex Parametrics Max-	Min II		
ETIC	Coil configuration	Horizontal Loop			
z Z	Coil separation	100m ;			
, MA	A coursey	-0.5%	an a		, , , , , , , , , , , , , , , , , , ,
C a	Method:	Fixed transmitter	Shoot back	X In line	Parallel line
	Frequency	444 Hz & 1777 Hz			
Ē			(specify V.L.F. station)		
	Parameters measured	In-phase and out-of-pr	ase percentages of	t the secondary	field
i sugi Sangar Bar	•			-	
Ç,	Instrument			• •	· · · ·
	Scale constant				
UTT V	Corrections made	۲			
<	-	· · · · · · · · · · · · · · · · · · ·			
Ċ	D Base station value as	nd location			•
	• • • • • • • • • • • • • • • • • • •				
	Elevation accuracy_				
			<i>.</i> .		
	Instrument				
NO	Method 🔲 Time	Domain	E Fr	equency Domain	
II	Parameters – On tir	ne	Fr	cquency	
SIZ	- Off ti	mc	Ra	nge	
ITA	– Delay	time	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
<u>a</u>	– Integr	ation time			
	Power	•			
SUC	Electrode array				
N	Electrode spacing _		······		
	Type of electrode _			······································	
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<u>Claim No</u>.

437097	` K		20
437098			20
486429			20
486430		·	20
486431		÷	20
486432			20
486433			20
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541903			20
541904			20
541905			20
566803			20
566804			20
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566806			20
5668 <b>07</b>			20
589 <b>032</b>			20
58903 <b>3</b>			20
589034			20
589035			20
5890 <b>36</b>			20
594003			20
594004			20
594005			20
594006			20
594007			20
594008			20
594009			20
59401 <b>0</b>			20

	3001003	THE MINING A	CT REPORT O	FWORK	A separate form is required for each type of work to be recorded.
To the Recorde	r of PATRI	CIA	• • • • • • • • • • • • • • • • • • • •		
1ST.	JOSEPH EXPL	ORATIONS LIMITED			T-501
Sui	nome of Reco ite 301, 216	rded Holder 1 Yonge Street, '	roronto, Onta	Pr ario. M4S	ospector's Licence 3A6
••••••••••••••••••••	······		Post Office Add	ress. Macma	tomotor Coophunic
do hereby repor	t the performanc	e of	do	ys of Magne	type of work
not before repo	ted to be opplie	d on the following cor	ntiguous claims		
Claim No.	Doys	Claim No.	Days	Claim No.	Days
	•••••	*****	•••••	• • • • • • • • • • • • • • • • •	•••••
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All the work wr	s performed on 1	Mining Claim (s)			
Type of drill or their employment	d Air or Other P equipment, Nan nt,	ower Driven or Mechan nes and addresses of r	ne, signed core nical Equipment nen engaged in c	log and sketch in operating equipmen	duplicate. It and the dates and hours
Type of drill or their employment For Power Strip work was cone. With each of the to the nearest of For Geophysics dates of survey maps, expenditu For Land Surve The Required Aur	d Air or Other P equipment, Nan nt. Proof of actual e above types o claim post. In th I, Geological, C (linecuting & c breakdown, to y - the name and Information is a Lixors - N.W.	ower Driven of Mechan res and addresses of a quipment. Name and a cost must be submitte f work sketches are a be case of diamond or Geochemical Surveys a office). Type of inst secipts must be filed i d address of Ontoria L s Follows: (Attac Rayner - J.L. W - Geophysics - J Line cutting	ne. Signed core nical Equipment nen engaged in a ddress of owner ed within 30 days equired to show other core drilli nd Expenditure ( rument used. To n duplicate with and surveyor. th a list if this s right March 1-15, 1 - Feb. 12-28	log and sketch in operating equipmen or operator. Amounts of recording. the location and e ng the sketch mus Credits - the name that amount of exp the Minister within opace is insufficie 1981	duplicate. It and the dates and hours int expended. Dates on whi extent of the work in relati it be submitted in duplica of author of report. Cover benditure. Technical repo in 60 days of recording. nt)
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THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

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Ministry of Natural

Resources

**Technical Assessment** Work Credits

August 25, 1981

File 2.3915

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lecorded Holder Sulpetro Minerals Limited		
ownship or Area Kabik Lake & Pickerel Town	nship	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnetic40days		
Magnetometer 20 days		
Radiometric days	Pa.437097 & 98 Pa 486429 to 36 incl	
Induced polarization days	Pa.487002 to 05 incl. Pa.541896 to 98 incl.	
Section 86 (18) days	Pa.541903 to 05 incl. Pa.566803 & 04	
Geological days	Pa.566806 & 07 Pa.589032 to 36 incl.	
Geochemical days	Pa.594003 to 10 incl.	I
Man days 🗌 🛛 Airborne 🗌		
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.		
pecial credits under section 86 (15a) for the following mini	ing claims	]
o credits have been allowed for the following mining claim	\$	
not sufficiently covered by the survey	ifficient technical data filed	

in order that the total number of approved assessment days recorded on The Mining Recorder may reduce the above credits if necessary

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Lands Administration Branch Mining Lands Section Ministry of Natural Resources Room 1617, Whitney Block		
Gueen's Park, Toronto		
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Address:    Suite 301, 21      Township or Area:    Kabik Lake      Type of survey and number of Assessment days credit per claim      Geophysical      Electromagnetic    40      Magnetometer    20      Radiometric    1      Induced polarization    Section 86 (18)      Geological    Airbo      Man days    Airbo	61 Yong & Pick Pick F H days H days days days days days days days	ge Street, Toronto, Ont.      serel Twp. M-2258      Mining claims      Pa. 437097 & 98      Pa. 486429-36 incl.      Pa. 487002-05 incl.      Pa. 541896-98 incl.      Pa. 541896-98 incl.      Pa. 566803 & 04; 566806 & 07;      Pa. 589032-36 incl.      Pa. 594003-10 incl.
Address:    Suite 301, 21      Township or Area:    Kabik Lake      Type of survey and number of Assessment days credit per claim      Geophysical      Electromagnetic    40      Magnetometer    20      Radiometric    1      Induced polarization    Section 86 (18)      Geological    Airbo      Special provision    Group	61 Yong & Pick Pick Fi days H days days days days days days days	<u>Mining claims</u> Mining claims Pa. 437097 & 98 Pa. 486429-36 incl. Pa. 487002-05 incl. Pa. 541896-98 incl. Pa. 541903-05 incl. Pa. 566803 & 04; 566806 & 07; Pa. 589032-36 incl. Pa. 594003-10 incl.
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Administration Branch with this letter.

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June 1/81 #81-25 #81-26 Natural Resources

Your file.

Our file: 2.3915

August 25, 1981

Albert Hanson Mining Recorder Ministry of Natural Resources P.O. Box 669 Sioux Lookout, Ontario POV 2TO

Dear Sir:

Re: Geophysical (Electromagnetic and Magnetometer) Survey on Mining Claims Pa.437097 et al, in the Area of Kabik Lake and Township of Pickerel.

The Geophysical (Electromagnetic and Magnetometer) Survey assessment work credits as shown on the attached statement have been <u>approved</u> as of the above date.

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

fours very truly, E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

JS. Halperin/bk

Encl.

- cc: Sulpetro Minerals Limited Toronto, Ontario
- cc: D.A. Janes Resident Geologist Sioux Lookout, Ontario

Ministry of Netural Receivings 1861 \$ \$ DUA RESIDEN' GEL SIOUX LOOKUUT



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