

42A06SE2002

2.18533

LANGMUIR

010

Report of Work

on the



Langmuir Township, Ontario Porcupine Mining Division District of Cochrane





42A06SE2002 2.18533

LANGMUTE

010C

1.0 SUMMARY

Recent limited magnetometer and induced polarization surveys performed at the Langmuir property. Have located several IP anomalies flanking or coincident with narrow zones of high magnetics. These anomalies are of interest for base metal and nickel sulphide exploration. An expanded magnetometer survey, HLEM and geological surveys and a data compilation are recommended to advance the property.

TABLE OF CONTENTS

1.0		Summary	(i)
2.0		Introduction	(1)
3.0		1998 Work	(1)
	3.1	Line Cutting	(1)
	3.2	TFM Survey	(1)
		Procedure	(1)
	3.2.2	Results	(4)
	3.3	IP Survey	(4)
	3.3.1	Procedure	(4)
	3.3.2	Results	(4)
4.0		Conclusion	(5)
5.0		Certificate of Qualifications	(6)
6.0		Equipment Specifications &	(0)
		Theories	(7)

PLAN, FIGURES AND IP SECTIONS

Figure 1	Location 1	Map	(2)
Figure 2	Langmuir	Property	(3)
Plan I	Magnetic	Survey	Pocket
4	1:5000	IP Sections	Pocket

2.0 INTRODUCTION

The Langmuir property consists of 56 units in 38 unpatented claims located in west central Langmuir Township, ON, approximately 25 km southeast of Timmins, ON. The property is accessible by the Stringer and Langmuir Mine roads, from South Porcupine, ON. The property contains part of the area covered by the past producing Langmuir Mine.

During April and May, 1998, Geoserve Canada Inc. conducted line cutting and an induced polarization survey on selected areas of the property. These areas were selected based on the presence of airborne electromagnetic conductors.

3.0 1998 WORK

3.1 Line Cutting

Line cutting consisted of a baseline 2.1 km long oriented east-west, a tie line at 1100N and cross lines at 0, 200E, 300E, 500E, 700E, 900E and 900W. All lines were picketed every 25 m for a total of 10.925 km.

3.2 TFM Survey

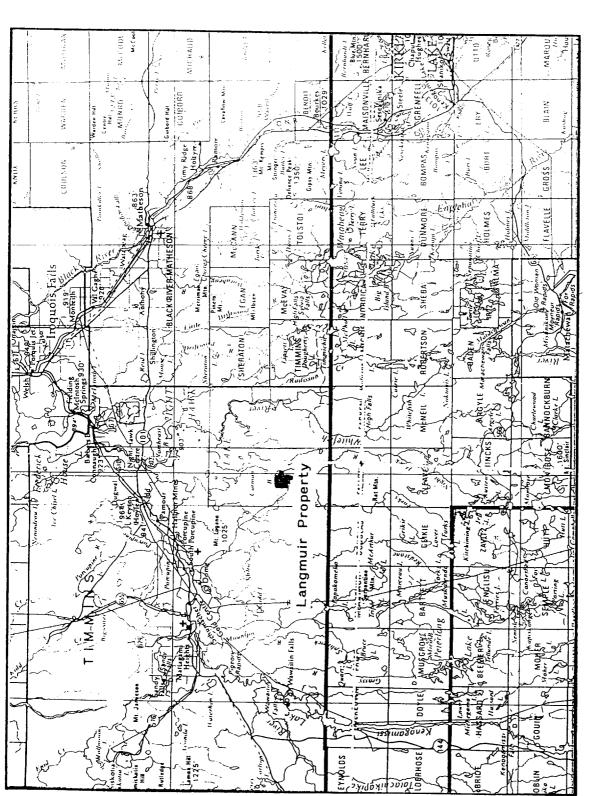
3.2.1 Procedure

The total field magnetics survey was conducted during May 1998 by Glenn O'Keefe. A TerraPlus GSM-19 magnetometer was used to take readings at 12.5 m intervals along the cross lines. In this manner, a total of 730 stations were surveyed, for 9.125 km.

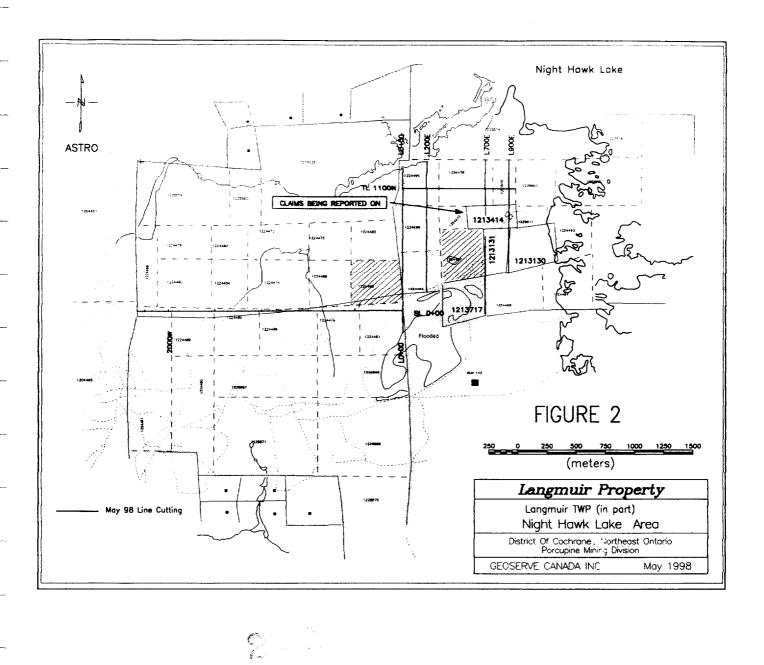
Figure

A Kilometres 10

Scale: 1:600 000



(2)



3.2.2 Results

The results of the magnetics survey are shown as profiles on Plan 1. The most prominent features noted are two prominent, relatively narrow (<100m) magnetic highs. One trends northeast from L0, 600N to L500E, 1237N. The other trends east-northeast from L0, 275N to L700E, 425N. Both appear to trend toward a prominent high on L900W, 50S. These narrow magnetic high probably represent magnetite iron formation.

3.3 Induced Polarization Survey

3.3.1 Procedure

The IP survey was conducted in May 1998 by Geoserve Canada Inc. The Pole-Dipole crews used an Androtex TDR-6 Time Domain Receiver in conjunction with an Androtex STX-10 Transmitter. Readings were taken every 50 m for n=1 to n=6 using the Pole Dipole Array.

3.3.2 Results

Results of the IP survey are shown on the sections which accompany this report.

Line 0 shows two chargeability anomalies, both slightly south of magnetic peaks inferred to represent iron formation. As well, these anomalies coincide with narrow conductive zones, at 212N and 575N, respectively, flanked by more highly resistive zones.

L200E also shows two chargeability/resistivity anomalies, from 375N to 450N and 900N to 1025N. The first anomaly is slightly north of a magnetic peak, while the second is coincident with magnetic peaks. These anomalies are believed to represent the same zones as are seen on L0.

L700E shows one broad chargeability anomaly from 350N to 625N. This is partially coincident with a zone of high resistivity from 300N to 425N. The "pantleg" part of the chargeability anomaly corresponds to a broad zone of reduced resistivity. The magnetics are highly variable over the zone. Both the resistivity and chargeability anomalies appear to extend beyond the survey limits.

L900E has a strong chargeability anomaly from 625N, southward to the limits of the survey. Resistivity appears fairly uniform over this zone. The anomaly is accompanied by an increase in the magnetics, on the south flank of a magnetic peak.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Due to the small area surveyed, few definitive conclusions can be drawn. The IP anomalies are interesting with regard to base metal and nickel sulphide exploration and should be investigated further. A compilation of existing data pertaining to the Langmuir Mine, perhaps in conjunction with a geological survey would be useful to provide geological control on these anomalies. The magnetometer survey should be expanded to include the entire property, and a horizontal loop electromagnetic survey should be performed.

Respectfully submitted for approval,

May 28/98 Date

Rodney Barber

5.0 CERTIFICATE OF QUALIFICATIONS

- I, Rodney Alan Barber, residing at 119 Lois Crescent, Timmins, ON., certify that:
- 1. I hold a B.Sc. (Honours) in Geology, obtained from Laurentian University, Sudbury, ON in 1988.
- 2. I have worked within the mineral exploration and mining industries since 1988, with an emphasis on northeastern Ontario for the last 7 years.
- 3. This report is the product of the examination of the survey results which accompany this report.
- 4. I have no direct interest in the Langmuir Property.

Date

Rodney A Barber

GEM Systems Advanced Magnetometers GSM-19

V 4.0

GEM Systems Inc

52 West Beaver Creek Road, Unit 14

Richmond Hill, Ontario Canada, L4B-1L9

Phone; (905) 764- 8008 Fax ; (905) 764- 9329

Instrument Description

'The sensor is a dual coil type designed to reduce noise and improve gradient tolerance. The coils are electrostatically shielded and contain a proton rich liquid in a pyrex bottle, which also acts as an RF resonator.

'The sensor cable is coaxial, typically RG-58/U, up to 100m long.

*The staff is made of strong aluminum tubing sections. This construction allows for a selection of sensor elevations above the ground during surveys. For best precision the full staff length should be used. Recommended sensor separation in gradiometer mode is one staff section, although two or three section separations are sometimes used for maximum sensitivity.

'The console contains all the electronic circuitry. It has a sixteen key keyboard, a 4x20 character alphanumeric display, and sensor and power input/output connectors. The keyboard also serves as an ON-OFF switch.

The power input/output connector also serves as a RS232 input/output and optionally as analog output and contact closure triggering input.

'The keyboard front panel, and connectors are sealed (can operate under rainy conditions)

*The charger has two levels of charging, full and trickle, switching automatically from one to another. Input is normally 110V 50/60Hz. Optionally, 12V DC can be provided.

The all-metal housing of the console guarantees excellent EM protection.

Instrument Specifications

Resolution

0.01 nT, magnetic field and gradient

Accuracy

0.20 nT over operating range

Range

20,000 to 120,000 nT automatic tuning, requiring initial

setup

Gradient Tolerance over 10,000 nT/m

Decident interval of seconds minimidity,

Operating Interval 3 seconds minimum, faster optional. Reading initiated

RS-232

from keyboard, external

trigger, or carriage return via Input/Output 6 pin wear

6 pin weatherproof connectors

Power Requirements 12V, 200mA peak, 30mA standby, 300mA peak with Gradiometer

Power Source Internal 12V, 1.9Ah sealed lead-acid battery standard,

Battery Charger Input; 110/220VAC, 50/60Hz and/or 12VDC

external source optional.

Output; 12V dual level charging

Operating Ranges Temperatures; -40°C to +60°C

Battery Voltages; 10.0 V min to 15.0V max Humidity; up to 90% relative, non condensing

Storage Temperature -50°C to +65°C

Dimensions

Console; 223 X 69 X 240 cm

Sensor Staff; 4 x 450mm sections Sensor; 170 x 71 mm diameter

Weight; Console 2.1Kg Staff 0.9Kg Sensors; 1.1Kg

Magnetic Survey

Theory;

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally occurring magnetic field caused by changes in the magnetization of the rocks in the earth. These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals. Magnetic anomalies in the earth's filed are caused by changes in two types of magnetization; (1) Induced, caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals. (2) Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc..) in the rocks. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field. The unit of measurement (variations in intensity) is commonly known as the Gamma which is equivalent to the nanotesla (nT).

Method;

The magnetometer, GSM-19 with an Overhauser sensor measures the Total Magnetic Field (TFM) perpendicular to the earth's field (horizontal position in the polar region). The unit has no moving parts, produces an absolute and relatively high resolution measurement of the field and displays the measurement on a digital lighted display and is recorded (to memory). Initially, the tuning of the instrument should agree with the nominal value of the magnetic field for each particular area. The Overhauser procession magnetometer collected the data with a 0.2 nanoTesla accuracy. The operator read each and every line at a 12.5 m interval with the sensor attached to the top of three (56cm) aluminum tubing sections. The readings were corrected for changes in the earth's magnetic field (diurnal drift) with a similar GSM-19 magnetometer, >>base station << which automatically read and stored the readings at every 30 seconds. The data from both units was then downloaded to PC and base corrected values were computed.

Induced Polarization

*Androtex TDR-6; The TDR-6 induced polarization receiver is a highly cost-effective instrument for the detailed measurements of IP effects and apparent resistivity phenomenon. Up to six dipoles can be measured simultaneously, thus increasing production. A wide input voltage range, up to 30V, simplifies surveys over the narrow shallow conductors of large resistivity contrast. Input signal indicators are provided for each dipole. All data are displayed on a 2x16 character display LCD module and any selected parameters con be monitored on a separate analogue meter for noise evaluation during the stacking/averaging. Although the TDR-6 receiver is automatic it allows full control and communications with the operator at all times during measurements. Since the input signal synchronizes the receiver at each cycle, the transmitter timing stability is not critical and any standard time domain transmitter can be used. Data are stored in the internal memory with a capacity of up to 2700 readings (450 stations). The data format is directly compatible with Geosoft without the necessity of an instrument conversion program.

Features

'Weight

Wide input signal range 'Automatic self-potential cancellation 'Staking/averaging of Vp and M for high measurement accuracy in noisy environments 'High rejection of power line interference 'Continuity resistance test 'Switch selectable delay and integration time 'Multiwindow chargeability measurements Digital output for data logger 'Six channel input provided 'Compatible with standard time domain transmitters 'Alpha-numeric LCD display 'Audio indicator for automatic SP compensation 'Portable

Specifications

'Dipole nl to n6 simultaneously 'Input Impedance 10 megohm 'Input Voltage (Vp) range:100µV to 30 Volts (automatic), accuracy:.25%, resolution:10µV. 'Self Potential (SP) range: ±2V, accuracy: 1%, Automatic compensation ±1 *Chargeability (M) range:300mV/V, accuracy:.25%, resolution:.1mV/V 'Automatic Stacking 2 to 32 cycles 'Delay Time programmable 'Integration Time programmable for each gate (10 gates) 'Total Chargeability Time During integration time of all gates 'Synchronization Signal programmable from channel 1 to 6 'Filtering power lines:dual notch 60/180Hz or 50/150Hz, 100dB, other: Anti-alias, RF and spike rejection. 'Internal Test Vp=1V, M=30mV/VGround resistance test 0 to 200 Kohm 'Transmitting Time 1,2,4 and 8 sec pulse duration, ON/OFF. 'Digital Display Two line 16 alphanumeric LCD. Six-monitoring input signal and course 'Analogue Meters resistance testing. ·Controls Push button reset, toggle start-stop, rotary Rs-in-test, rotary (data scroll) display, rotary (data scroll) Dipole, keypad 16 key 4x4. 'Memory Capacity 2700 readings, 450 stations (n1 to n6). 'Data Output serial I/O RS-232 (programmable baud rate), Geosoft compatible output format. 'Temperature Range Operating:-30°to +50°C, storage -40° to +60°C. 'Power Supply Four 1.5V D cells. 'Dimensions 31x16x29 cm

6.5 kg (14.31bs)

IP Method

The phenomena of Induced Polarization (IP) was reported as early as 1920 by Schlumberger. The IP survey technique allows a variety of arrays (which all have advantages and disadvantages) and reads two separate elements; (1) The chargeability or IP effect (M) and Apparent Resistivity. The IP technique is useful for detecting sulphide bodies and is also useful as a structural mapping tool. The IP effect is the measurement of the residual voltage in rocks that remains after the interception of a primary voltage. It includes many types of dipolar charge distributions set up by the passage of current through consolidated or unconsolidated rocks. Among the causes are concentration polarization and electrokinetic effects in rocks containing electronic conductors such as metallic sulphides and graphite. The term overvoltage applies to secondary voltages set up by a current in the earth which decays when it is interrupted. These secondary effects are measure by a receiver via potential electrodes. The current flow is actually maintained by charged ions in the solutions. The IP effect is created when this ionic current flow is converted to electronic current flow at the surface of metallic minerals (or some clays, and platy silicates). The IP method is generally used for prospecting low grade (or disseminated) sulphide ores where metallic particles, sulfides in particular, give an anomalous response. Barren rock (with certain exceptions) gives a low response. In practice, IP is measured in one or two ways; (1) In a pure form, a steady current of some seconds (nominally 2 seconds) is passed and abruptly interrupted. The slowly decaying transient voltage existing in the ground are measured after interruption. This is known as the time domain method. The factor Vs/ Vp is the integrated product for a specified time, and several readings are averaged (suppressing noise and coupling effects). The resultant chargeability, M is essentially an unitless value but it is usually represented in mV/V. The second method entails a comparison of the apparent resistivity using sinusoidal alternating currents of 2 frequencies within the normal range of 0.1 to 10.0 cps.. The factor used to represent the IP effect by this frequency domain method is the percent frequency effect (PFE) and is defined by (R1-R2)/R1x100% where R1 and R2 are the apparent resistivities at the low and high frequencies.

Use and Limitations

The effective depth of penetration of any IP survey is a function of the resistivity of the surface layer('s) with respect to the resistivity of the lower layer. All arrays have different effects from this resistivity contrast, some are less affected than others. When the surface layer is 0.01 of the lower layer, the effective penetration is very poor hence the term masking. Masking occurs most often in areas of thick clay cover. The size of the target therefore becomes important when detection is desirous under a conductive surface layer. The frequency domain methods are the most adversely affected by masking as inductive coupling can be much greater than the response.

Standard Definitions of Chargeability

The IP parameter, chargeability (M) varies with time. For practical reasons the entire decay curve is not sampled. Instead the secondary voltage is sampled one or more times at various intervals. Because the secondary voltage is received at extremely low levels in many prospecting situations, measurements of its amplitude at any given time is extremely susceptible to noise. Therefore, the secondary voltage is usually integrated for a period of time called a gate. Thus, if the noise has a zero mean, the integration will tend to cancel the noise. The Newmount M Factor is a standard time domain IP parameter. The gate delay, of 80 mSeconds (used by the TDR-6) was chosen to allow time for normal electromagnetic effects and capacitive coupling effects between the transmitter and receiver to attenuate so that the secondary voltage consists only of the IP decay voltage.

The TDR-6 total integration time of 1580 milliSeconds (gate) is divided into ten individual gates. The time-constant of the IP dispersion curve, <u>Cole-Cole dispersion</u> (W H Pelton, 1977), obtained from the ten individual gates (windows) is directly related to the physical size of the metallic particles. This data is available at the clients request since all of the obtained field data is archived

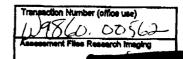
(downloaded) to computer.



Ministry of Northern Developmen

Declaration of Assessment Work Mining Land

on 86(2) and 66(3), R.S.O. 1990



2 10522

T.ANGMITT

PORCUPINE Y

NO DI

900

ections 65(2) and 66(3) of the Mining Act. Under section 8 invest Mining Act, this is work and correspond with the mining land holder. Questions about this collection int and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

GEOSCIENCE ASSESSED

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in lnk. Recorded holder(s) (Attach a list if necessary) CARON Address Name Address Telephone Number Fax Number Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration. Geotechnical: prospecting, surveys, Physical: drilling stripping, Rehabilitation assays and work under section 18 (regs) trenching and associated assays Nork Type LINECUTTING, MAG SURVEY Office Use Commodity Total \$ Value of \$ Work Claimed 05 938 10 NTS Reference Mining Division ANGMUIR Resident Geologist District lease remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report. Person or companies who prepared the technical report (Attach a list if necessary) ddress Fax Number ame Telephone Number dress Fax Number Certification by Recorded Holder or Agent MIKE CARON , do hereby certify that I have personal knowledge of the facts set forth in is Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its empletion and, to the best of my knowledge, the annexed report is true. gnature of Recorded Holder or Agent gent's Address Telephone Number

7052358038

			L/s/M	DE LIGIER	it are conliguous (adjoint many)	160
	g Claim Number, Or If	Number of Claim	Value of work	Value of work	Value of work	0.76g-
minin	vas done on other eligible gland, show in this	Units, For other mining land, list	performed on this	applied to this	assigned to other	Bank, Value of work to be distributed
olum	n the location number	nectares,	mining land	claim	mining claims	elsb sruhit s la
	ited on the claim map	 	 	ļ		
8	T8 7827	16 ha	\$26,625	N/A	\$24,000	\$2,825
9	1234567	12	0	\$24,000	0	0
9	1234568	2	\$ 6,892	\$ 4,000	0	\$4,892
	1219135.	6	841.00	Q	\$41.00	R
_	1224473.		\$ 123.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 123.00	82
4	122 4474.		\$ 200.00	82	\$ 200.00	Ø
	1224487 .		\$270.00	X	\$ 270.00	8
_	1228887.	2	\$164.00	کی	8 (1,4,00	83
_	1228871 .	4	9369.00	82	\$ 369.00	8
_	1554481 .	2	\$ 90,001	Q	\$ 90.00	8
\perp	1224489.		\$120.00	82	8120,00	\overline{\over
_	1224486 .		8/20.00/	ර්	18,00	\$ 102,0
)	1224476 .	1	8 90,00/	84	\$90.00	82
	1224491 .		\$ 797.00	8400,00	\$ 397,00	8
4	1224492 .		32073.00	\$800.00	\$ 1273,00	Q
4	1554196.		\$2,724.001	\$ 800.00	\$ 1924,00	Ø
	122	ì	\$2,000.001	8 400.00	86 1600,00	X
+	1224495 •	— <u>-</u>		5 1W		
+	1224477 •		\$873.00	\$800.00	\$ 73,00	8
+	1224477 • Column Totals	1	\$873.00)	\$800.00	\$ 73,00	× ×
bsec	1224477.	CON unel unit Work Regulation	#873.00 do h	ereby certify that the nent to contiguous	\$ 73,00 he above work credits claims or for application	are eligible under
bsec	Column Totals MINE CAM (Pinet Pul Ni ction 7 (1) of the Assessme the work was done.	CON unel unit Work Regulation	#873.00 do h	\$ 800.00 ereby certify that if	\$ 73,00 he above work credits claims or for application	are eligible under
bsec	Column Totals MINE CAM (Pinet Pul Ni ction 7 (1) of the Assessme the work was done.	CON une) unit Work Regulation horized h Witting	do h	ereby certify that the nent to contiguous	\$ 73,00 he above work credits claims or for application	are eligible under
bsec are in	Column Totals MINE CAM (Pant Ful Ni ction 7 (1) of the Assessme the work was done. The of Recorded Holder of Agent Au structions for cutting bar of the credits claimed in the	LON unel unit Work Regulation horized in Works Regulation horized in William Control (1997) and the control (1997)	do hon 6/96 for assignment approved.	ereby certify that the nent to contiguous	\$ 73,00 he above work credits claims or for applications	on to the claim
bsec natural	Column Totals Column	not work Regulation horized in winner work credits that are is declaration may	do hon 6/96 for assignment approved.	ereby certify that it nent to contiguous Since 1/2	\$ 73,00 he above work credits claims or for applications.	on to the claim
bsec natural	Column Totals Column	horized Winner ck credits that are s declaration may	do hon 6/96 for assignment approved. be cut back. Pleathe Bank first, folio	ereby certify that it nent to contiguous See check (*) in the lived by option 2 or	\$ 73,00 he above work credits claims or for application boxes below to show 3 or 4 as indicated	on to the claim
in me	Column Totals Column	horized with Work Regulation horized with Work Regulation horized with Work Regulation horized with Work Regulation may be cut back from the cut back starting be cut back starti	do hon 6/96 for assignment approved. Date the Bank first, following with the claims	ereby certify that it nent to contiguous Sime 1/2 se check (*) in the lived by option 2 or listed last, working	the above work credits claims or for application of the application of	on to the claim
in In	Column Totals Column	mel work Regulation more of Works Regulation more of Works Regulation more of the cut back from the cut back starting be cut back equal	do hon 6/96 for assignment approved. Date the Bank first, foliong with the claims lily over all claims I	ereby certify that the nent to contiguous See check (*) in the lowed by option 2 or listed last, working isted in this declare.	the above work credits claims or for application boxes below to show a 3 or 4 as indicated backwards; or ation, or	on to the claim
bseconstant in me	Column Totals Column	mel work Regulation more of Works Regulation more of Works Regulation more of the cut back from the cut back starting be cut back equal	do hon 6/96 for assignment approved. Date the Bank first, foliong with the claims lily over all claims I	ereby certify that the nent to contiguous See check (*) in the lowed by option 2 or listed last, working isted in this declare.	the above work credits claims or for application boxes below to show a 3 or 4 as indicated backwards; or ation, or	on to the claim
bsec are in	Column Totals Column	mel work Regulation more of Works Regulation more of Works Regulation more of the cut back from the cut back starting be cut back equal	do hon 6/96 for assignment approved. Date the Bank first, foliong with the claims lily over all claims I	ereby certify that the nent to contiguous See check (*) in the lowed by option 2 or listed last, working isted in this declare.	the above work credits claims or for application of the application of	on to the claim
bseconstant in me	Column Totals Column	mel work Regulation more of Works Regulation more of Works Regulation more of the cut back from the cut back starting be cut back equal	do hon 6/96 for assignment approved. Date the Bank first, foliong with the claims lily over all claims I	ereby certify that the nent to contiguous See check (*) in the lowed by option 2 or listed last, working isted in this declare.	the above work credits claims or for application boxes below to show a 3 or 4 as indicated backwards; or ation, or	on to the claim
in me	Column Totals Column	horized h Witing ck credits that are s declaration may be cut back from the cut back starting be cut back equal be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, following with the claims lity over all claims I oritized on the attains.	ereby certify that the nent to contiguous se check (/) in the level by option 2 or listed last, working isted in this declarationed appendix or	the above work credits claims or for application of a sindicated backwards; or as follows (describe):	on to the claim
bsection in the section in the secti	Column Totals Column	horized h Watting ck credits that are s declaration may be cut back from the cut back starting be cut back equal be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, following with the claims lity over all claims I oritized on the attains.	ereby certify that the nent to contiguous se check (/) in the level by option 2 or listed last, working isted in this declarationed appendix or	the above work credits claims or for application of a sindicated backwards; or as follows (describe):	on to the claim
In me: oritiz	Column Totals Column Totals Column Totals Committee Charles Committee Charles Committee Charles Committee Charles Committee Committ	horized h Watting ck credits that are s declaration may be cut back from the cut back starting be cut back equal be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, following with the claims lity over all claims I oritized on the attains.	ereby certify that the nent to contiguous se check (/) in the level by option 2 or listed last, working isted in this declarationed appendix or	the above work credits claims or for application of a sindicated backwards; or as follows (describe):	on to the claim
In Interior of the Interior of	Column Totals Column	be cut back starting be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, foliong with the claims live over all claims in oritized on the attact to be deleted, creating the deleted of the deleted.	ereby certify that the nent to contiguous se check (/) in the level by option 2 or listed last, working isted in this declarationed appendix or	the above work credits claims or for application of a sindicated backwards; or as follows (describe):	on to the claim
In Interior of the Interior of	Column Totals Column	be cut back starting be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, following with the claims of the attack on the attack to be deleted, creating to be deleted.	ereby certify that it nent to contiguous See check (*) in the lived by option 2 or listed last, working isted in this declarationed appendix or distanced	the above work credits claims or for application or application of the above work credits claims or for application or as follows (describe): Onter Notification of the Bank first,	on to the claim how you wish to
Instruction in the instruction i	Column Totals Column	be cut back starting be cut back as pri	do hon 6/96 for assignment approved. Date the Bank first, following with the claims of the attact on the attact to be deleted, creating to be deleted.	ereby certify that the nent to contiguous See check (<) in the lived by option 2 or listed last, working isted in this declaranched appendix or ached appendix or dilts will be cut back. Approved Date	the above work credits claims or for application of a sindicated backwards; or as follows (describe): Control Value of Cre	on to the claim how you wish to
in me: oritizate: If for	Column Totals Column	horized h Watting ck credits that are s declaration may be cut back from the cut back starting be cut back equal be cut back as pri	do hon 6/96 for assignment of the proved. Date the Bank first, following with the claims if the proved on the attained on the attained to be deleted, credible approved.	ereby certify that it nent to contiguous See check (*) in the lived by option 2 or listed last, working isted in this declarationed appendix or distanced	the above work credits claims or for application of a sindicated backwards; or as follows (describe): Control Value of Cre	on to the claim how you wish to

.۸.		<i>d</i> :	- FINJAI	RELISION	1 . 1 - //	5 000/12
Mining work w	Claim Number, Or If as done on other eligible	Number of Claim Units. For other	Value of work	Value of work	Value of work	Bank, Value of work
mining olumn	land, show in this the location number ed on the claim map.	mining land, list hectares,	performed on this claim or other mining land.	applied to this claim	assigned to other mining claims	to be distributed at a future date
_	YB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
4	1234567	12	0	\$24,000	0	0
4	1234568	2	\$ 8,892	\$ 4,000	0	\$4.892
	1554478	1	¥1,648.00/	\$ 400.00	8 124800	7 8
<u>'</u>	1213414		×	\$ 2000 001	X	Q
\rightarrow	1513131	1	8	\$ 2000.00/	X	8
4	1513130	1	B	\$ 2000.00/	X	Q
4	1513717	1	Z.	\$ 2000.00	92	Ø
4	<u> </u>					
4						
\perp						
\perp						
\perp						
\downarrow						
_	·					
\downarrow						
1						
\rightarrow						
I						
I	Column Totals	30	11.702,00	11,600.00	\$7,990.00	& 102.º
I	Column Totals	= 4				\$ 102.0
osec	MICE	= CAREN	, do h	ereby certify that th	e above work credit	
		= CAREN	, do h	ereby certify that th	e above work credit	
are 1	M/CO (Prog Full tion 7 (1) of the Assessm	T CAREN Name) nent Work Regulation	, do h	ereby certify that the	e above work credit	
are 1	tion 7 (1) of the Assessmente work was done.	T CAREN Name) nent Work Regulation	, do h	ereby certify that th	e above work credit	
elure	tion 7 (1) of the Assessment work was done.	Name) nent Work Regulation uthorized in Writing	, do h	ereby certify that the	e above work credit	
ature In:	(Prou Full tion 7 (1) of the Assessment work was done. of Recorded Holder or Assent A structions for cutting be	Name) nent Work Regulation whorized in Writing ack credits that are	, do hin 6/96 for assignm Oate not approved.	ereby certify that the nent to contiguous of the second se	e above work creditions or for applica	lion to the claim
in:	tion 7 (1) of the Assessment work was done.	Name) nent Work Regulation whorized in Writing ack credits that are	, do hin 6/96 for assignm Oate not approved.	ereby certify that the nent to contiguous of the second se	e above work creditions or for applica	lion to the claim
in:	tion 7 (1) of the Assessment A work was done. To Recorded Holder positional A structions for cutting but the credits claimed in the the deletion of credits: 1. Credits are the credits are the deletion of credits.	Name) nent Work Regulation withorized in writhe ack credits that are his declaration may o be cut back from the	Date Oate Oate oot approved. De cut back. Please the Bank first, follo	se check (<) in the	e above work creditions or for applications or for applications. Doxes below to show the same as a sindicated.	lion to the claim
in:	tion 7 (1) of the Assessment A work was done. In the work was done. In the credits claimed in the the deletion of credits: 1. Credits are the credits are t	Name of the control o	not approved. Decumber by the Bank first, follows with the claims is	se check (<) in the wed by option 2 or isted last, working is	e above work creditions or for applications or for applications or for applications or for applications or for a sindicated backwards, or	lion to the claim
nature In:	tion 7 (1) of the Assessment Asse	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back equally	not approved. De cut back. Please Bank first, follow with the claims by over all claims by over all claims.	se check (<) in the wed by option 2 or isted last, working isted in this declara	e above work creditions or for applications or	w how you wish to
nature In:	tion 7 (1) of the Assessment Asse	Name of the control o	not approved. De cut back. Please Bank first, follow with the claims by over all claims by over all claims.	se check (<) in the wed by option 2 or isted last, working isted in this declara	e above work creditions or for applications or	w how you wish to
in:	tion 7 (1) of the Assessment Asse	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back equally	not approved. De cut back. Please Bank first, follow with the claims by over all claims by over all claims.	se check (<) in the wed by option 2 or isted last, working isted in this declara	e above work creditions or for applications or	w how you wish to
instant instan	tion 7 (1) of the Assessment work was done. In Recorded Holder or tigent A structions for cutting but the credits claimed in the the deletion of credits: 1. Credits are the deletion of credits are	nent Work Regulation where in writing wh	Date	se check (<) in the wed by option 2 or isted last, working isted in this declaration or a	e above work creditions or for applications or for applications or shows below to show as a sindicated packwards; or tion; or its follows (describe)	lion to the claim w how you wish to
Instantial	tion 7 (1) of the Assessment Asse	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back as price tow your credits are to	Date	se check (<) in the wed by option 2 or isted last, working isted in this declaration or a	e above work creditions or for applications or for applications or shows below to show as a sindicated packwards; or tion; or its follows (describe)	lion to the claim w how you wish to
Instruction Instru	tion 7 (1) of the Assessment work was done. In the work was done. In the credits claimed in the end deletion of credits are the deletion of	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back as price tow your credits are to	Date	se check (<) in the wed by option 2 or isted last, working isted in this declaration or a	e above work creditions or for applications or for applications or shows below to show as a sindicated packwards; or tion; or its follows (describe)	lion to the claim w how you wish to
In: ne confiz	tion 7 (1) of the Assessment Asse	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back as price tow your credits are to	not approved. Date not approved. De cut back. Please ne Bank first, follog with the claims if yover all claims if yover all claims if your all claims if you had been the attained on the attained on the attained on the attained on the deleted, created the second of the deleted of the del	se check (<) in the wed by option 2 or isted last, working isted in this declaration or a	e above work creditions or for applications or for applications or shows below to show as a sindicated packwards; or tion; or its follows (describe)	lion to the claim w how you wish to
In: The conflict Offi	tion 7 (1) of the Assessment work was done. In Recorded Holder partition A structions for cutting but the credits claimed in the credits claimed in the deletion of credits: 1. Credits are to the deletion of credits	Name) nent Work Regulation withorized in writhe ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back equall to be cut back as price to be cut back	not approved. Date not approved. De cut back. Please ne Bank first, follog with the claims if y over all claims if onitized on the attains Deemed.	se check (<) in the wed by option 2 or isted last, working isted in this declaratched appendix or a dits will be cut back. Approved Date	boxes below to sho oackwards; or tion; or is follows (describe) from the Bank first	w how you wish to
In: ne confliz e: If fo	tion 7 (1) of the Assessment work was done. In Recorded Holder partition A structions for cutting but the credits claimed in the credits claimed in the deletion of credits: 1. Credits are to the deletion of credits	Name) nent Work Regulation withorized in writhe ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back equall to be cut back as price to be cut back	not approved. Date not approved. De cut back. Please ne Bank first, follog with the claims if y over all claims if onitized on the attains Deemed.	se check (<) in the wed by option 2 or isted last, working isted in this declaratched appendix or a dits will be cut back. Approved Date	e above work creditions or for applications or for applications or for applications or for as indicated backwards, or fion; or follows (describe) from the Bank first Date Notification Total Value of C	w how you wish to
insome confize	tion 7 (1) of the Assessment work was done. In Recorded Holder partition A structions for cutting but the credits claimed in the credits claimed in the deletion of credits: 1. Credits are to the deletion of credits	Name) nent Work Regulation withorized in writhe ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back equall to be cut back as price to be cut back	not approved. Date not approved. De cut back. Please ne Bank first, follog with the claims if y over all claims if onitized on the attains Deemed.	se check (<) in the wed by option 2 or isted last, working isted in this declaranched appendix or a dits will be cut back. Approved Date	e above work creditions or for applications or for applications or for applications or for as indicated backwards, or fion; or follows (describe) from the Bank first Date Notification Total Value of C	w how you wish to
in: me confliz e: If fo	tion 7 (1) of the Assessment work was done. In Recorded Holder partition A structions for cutting but the credits claimed in the credits claimed in the deletion of credits: 1. Credits are to the deletion of credits	Name) Inent Work Regulation withorced in writing ack credits that are this declaration may to be cut back from the to be cut back starting to be cut back as price tow your credits are to	not approved. Date not approved. De cut back. Please ne Bank first, follog with the claims if y over all claims if onitized on the attains Deemed.	se check (<) in the wed by option 2 or isted last, working isted in this declaranched appendix or a dits will be cut back. Approved Date	e above work creditions or for applications or for applications or for applications or for as indicated backwards, or fion; or follows (describe) from the Bank first Date Notification Total Value of C	w how you wish to

TIN 02 '98 09:35

フロテンマテロロマロ

PAGE 03

	Ontario	Ministry of
IYYI	Unrario	Porthern Devi
W.		and Mines

Statement of Costs for Assessment Credit

i	Transaction Number (office use)
	W9860.00562.

Personal Information collected on this form is obtained under the suthority of subsection 8 (1) of the Assessment Work Regulation 9795. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, PSE

15.		FINAL	REUISIO
Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, idlometres of grid line, number of semples, etc.	Cost Per Unit of work	Total Cost
LINECUTTING	12.3 Km	\$300. €	¥3,690.00
MAG SURVEY	9.15km	\$ 110.00	1,006.
1.P Survey	5.19 DAYS I ROOM + PLATING DOWN	8 /350. và	\$ 7,006.0
Associated Costs (e.g. sup	plies, mobilization and demobilization).		
Tran	sportation Costs		
Food	and Lodging Costs		
culations of Filing Discount		liue of Assessment Wo	rk 71, 702. ^{uo}
Work filed within two years of	performance is claimed at 100% of the above Tot and up to five years after performance, it can only this situation applies to your claims, use the calcu	lation below:	0 10.2.
TOTAL VALUE OF ASSESSMEN	T WORK x 0.50 =	Total \$ value	of worked claimed.
request for verification and/or (eligible for credit. pired to verify expenditures claimed in this statem correction/clarification. If verification and/or correction and/o	ent of costs within 45 da ction/clarification is not n	ys of a nade, the
rtification verifying costs:	, do hereby certify, that the amounts sho	own are as accurate as m	nay reasonably
(please print full name) determined and the costs (cr	nourred while conducting assessment work on the		accompanying
claration of Work form as(n	corded holder, agent, or state company position with signing authority) Signature	10	Date
GEOSCI.	ENUE ASSESSMENT		Jule 1 /98

Ministry of **Northern Development** and Mines

MICHEL GEORGE CARON

99 BRUCE P.O. BOX 362 SOUTH PORCUPINE, Ontario Ministère du Développement du Nord et des Mines



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 (705) 670-5881

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Submission Number: 2.18533

Dear Sir or Madam:

August 13, 1998

P0N-1H0

Status

Subject: Transaction Number(s):

W9860.00562 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely.

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.18533

Date Correspondence Sent: August 13, 1998

Assessor:Lucille Jerome

Transaction

Number

First Claim

Number

Township(s) / Area(s)

Status

Approval Date

W9860.00562

1219135

LANGMUIR

Deemed Approval

August 12, 1998

Section:

14 Geophysical IP

14 Geophysical MAG

Correspondence to:

Resident Geologist South Porcupine, ON

Assessment Files Library Sudbury, ON

Recorded Holder(s) and/or Agent(s):

MICHEL GEORGE CARON SOUTH PORCUPINE, Ontario

 \mathcal{N}

