HEMLO GOLD MINES INC. REPORT ON INDUCED POLARIZATION AND MAGNETIC SURVEYS AT THE SHANE OPTION

NTS 52 M/1 **RED LAKE DISTRICT** Υ. NORTHWESTERN ONTARIO DIVISION

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Matthew Johnston



Table of Contents

1.0	Summary	1
2.0	Property Location and Access	1
3.0	Claims	1
4.0	Previous Work	2
5.0	Geophysics	2
6.0	Conclusions and Recommendations	4

List of Figures

Figure 1	Property Location Map
Figure 2	Claim Location Map

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List of Maps

Мар	Scale
Total Field Magnetic Survey - Posted	1:5000
Pseudo Plan Map - Phase	1:5000
Pseudo Plan Resistivity	1:5000



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1.0 Summary

The Shane Option was partially gridded and subjected to induced polarization and magnetic surveys during January and February 1996.

2.0 Property Location and Access

The property is comprised of three separate blocks of patented and unpatented mining claims situated on Pipestone Bay and Middle Bay, at the west end of Red Lake, Ontario within NTS 52 M/1 (figure 1). Figure 1 locates the property in relation to the Red Lake townsite. Access is by water, approximately 35 km from town.

3.0 Claims

The Shane Option property consists of twenty-five patented and unpatented mining claims as illustrated in figure 2; and summarized below.

KRL 8929 KRL 448434 to 448437 (inclusive) KRL 827859 to 827874 (inclusive) KRL 448439 KRL 775338 KRL 1057573 KRL 1057684

The geophyscial program at the Shane Option property was carried out January 30, 1996 and February 15, 1996





4.0 **Previous Work**

- 1930-1934: National Gold Syndicate: prospecting, shaft sinking to 7.3 meters.
- 1934-1958: West Red Lake Gold Mines Ltd: shaft sank to 66 meters; 220 meters underground development; prospecting; numerous short diamond drill holes.
- 1980: W. Hermiston: one diamond drill hole (144 meters)
- 1986-1988: Shane Resources Ltd: prospecting, humus sampling, magnetometer and VLF-EM surveys; numerous diamond drill holes in the vicinity of KRL 8929, KRL 448437 and KRL 448439.

5.0 Geophysics

The geophyscial program at the Shane Option property was carried out January 30, 1996 and February 15, 1996. The program consisted of 10.7 km of linecutting, 10.7 km of total field magnetic surveying and 6 km of induced polarization and resistivity surveying.

The line-cutting was carried out by Stares Contracting of Thunder Bay, Ontario and the induced polarization survey was completed by Belanger Geophysics Ltd. of Rouyn, P.Q. The total field magnetic survey was completed by B. Maclachlan of Hemlo Gold Mines Inc. All of the data has been plotted at a scale of 1:5000.

Induced Polarization Survey

A number of strong IP and resistivity anomalies were detected over the Shane Option roperty. These anomalous horizons are illustrated on both the stacked pseudo-sections of phase and resistivity, and will are summarized below.

IP Anomalies	<u>Comments</u>
Line 157E/10200N Line 157E/10470N	Moderate strength phase anomalies
Line 160E/10180N Line 160E/10775N Line 160E/10680N Line 160E/10250N	Srong well defined phase anomalies
Line 162E/11060N Line 162E/10520N Line 162E/10215N	moderate strength phase anomalies
Line 164E/10430N	strong near surface phase anomlay
Line 166E/11400N Line 166E/10950N Line 166E/10490N	weak to moderate strength anomalies
Line 168E/11050N	weak phase anomlay

All of the IP anomalies outlined above should be considered to be originating within the underlying bedrock and should be considered for ground follow-up by prospecting or geological mapping to determine their source lithology. Induced polarization anomalies may reflect graphitic horizons or possibly disseminated accumulations of sulphide minerals, both of which are sometimes associated with gold mineralization. Some of the anomalies appear to have good line to line correlation and these are indicated on the stacked pseudo section maps.

Total Field Magnetics

Total field magnetic amplitudes in the survey area vary between 56211 and 62471 nT with the majority of readings between 58500 and 59800 nT. The isomagnetic contour pattern over the Shane Option grid indicates that the underlying lithology is striking in an northeast-southwest direction between 040° and 45° over the claim groups. Two distinct magnetic domains are evident within the magnetic data. These consist of linear east-west striking magnetic highs ranging up to 3000 nT above background interspersed within a generally culescent magnetic background of approximately 59000 nT. These magnetic highs may reflect mafic to ultramafic stratigraphy within the felsic stratigraphy.

6.0 Conclusions and Recommendations

The induced polarization survey at the Shane Option property has outlined several anomalous trends primarily characterized by moderate to strong phase anomalies. The magnetic survey has delineated local strike of the underlying lithology and possibly indicates several areas of mafic to ultramafic lithology within the regional felsic stratigraphy.

It is recommended to test the best induced polarization anomalies by drilling when supported by geological, geochemical or more detailed geophysical data.

Respectively Submitted Hemlo Gold Mines Inc.

Matthew Johnston Geophysicist

Statement of Qualifications

This is to certify that: MATTHEW JOHNSTON

I am a resident of Timmins; province of Ontario since June 1, 1995.

I am employed as an Exploration Geophysicist by Hemlo Gold Mines Inc., based in Timmins, Ontario.

I have received a B.Sc. in geophysics from the University of Saskatchewan; Saskatoon, Saskatchewan in 1986.

I have been employed as a professional geophysicist in mining exploration since 1986.

I do not hold nor do I expect to receive any interest of any kind in these claims held under option by; or wholly by Hemlo Gold Mines Inc.

Signed in Timmins, Ontario, this October 10, 1996.

By:

Mattlew other

Matthew Johnston



UCI 2 9 1996

Induced Polarization Surveys

This is currently the most powerful and commonly used galvanic method in mineral exploration. Originally designed in the post-war period for use in porphyry copper exploration, it has evolved into a tool of much wider application.

The method depends on the fact that if the voltage near a pair of current electrodes is observed as the current is turned off, it often decreases gradually to zero rather than dropping instantly. This behavior is what is know as the induced polarization (IP) effect. other equivalent manifestations of IP are a drop in resistance to an AC current with increasing frequency and **a phase shift of measured voltage relative to signal current**. The effect is caused by current-induced ionic disequilibrium at conductor surfaces and in certain clays such as montmorillonite. The return to chemical equilibrium when the current is shut off is diffusion-controlled, producing the observed slow decay. The electrical analogy often furnished is that of a capacitor discharging current following a charge period.

IP measurements are used to located disseminated conductors such as typical porphyry copper deposits. IP can distinguish zones of electrolytic conductivity from conductive minerals. IP surveys are often useful as a geological mapping tool in areas of thick overburden, and can sometimes provide information on clay alteration. They are invariably combined with resistivity surveys, both measurements being made with the same electrode setup. The technique has found a place in **gold exploration** due to its increasing ability to sense very minor sulphides (1-2%) associated with vein types of gold occurrences.

The measured primary voltage, which increases with time, can be regarded as being shifted in time with respect to the transmitted current. That is, there is a phase shift. This shift, expressed in milliradians, is the parameter measured in phase IP. The received square wave is digitized and filtered, and the phase shift of the desired frequency (fundamental or harmonic) is measured relative to the transmitted signal or a synchronous digital clock. The voltage is recorded for use in calculating the resistivity. Many cycles of signal can be averaged, thus increasing the signal to noise ratio and thereby simulating the effect of higher current.

The most advanced instruments measure amplitude and phase shift of the voltage at a wide range of frequencies. This is the so-called spectral IP, multifrequency IP, or complex resistivity technique. These systems are all microprocessor-controlled, and the large amounts of data they produce require digital storage systems. The same information is available from time-domain systems with multiple time gates.

All these systems require some way of synchronizing transmitter and receiver. The easiest method, applicable to time and frequency domain systems, is to synchronize on the received signal. This is feasible if the signal is much stronger than ambient noise. Otherwise, crystal clocks or a cable link must be employed.

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NOTE: V-4 CAN READ N-1 to N-6 SIMULTANEOUSLY FROM TX DIPOLE WHEN 2nd TX DIPOLE IS READ EVERYTHING MOVES AHEAD 2 SEPARATIONS THIS METHOD CAN BE USED FOR DIPOLE-DIPOLE OR POLE-DIPOLE CONFIGURATIONS

ADVANTAGES :

- ONLY 2 HIGH VOLTAGE WIRES (REDUCES COUPLING)
- REDUCED SETUP TIME (WIRES CAN BE PULLED LINE TO LINE)
- NO OVERLAP OF SETUPS TO FILL IN DEEPER (N) VALUES
- REFERENCE CABLE ELIMINATES CALIBRATION ERRORS AND DATA CORRECTION

A NEW DIMENSION IN INSTRUMENTATION

G,

Cost-effectiveness through multipla functions: five controlled-source geophysical techniques plus generalized data acquisition processing control in a rugged, battery powered, portable gackage

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altery portable

A CONTRACTOR OF

CPU board memory

Serial I/O

Parallel I/O

A-D conversion

Weight Dimensions

Case Connectors

Timing

Up to 576 Kbyte RAM + 320 Kbyte ROM.

16-bit resolution, 12.5 kHz conversion rate.

RS-232 printer.

precision clock.

Mechanical

for external sensors.

or external computer.

Optional RS-232 port with selectable baud rate. Can drive

8 bit port with max 1/2 MHz transfer rate. For vest-pocket printer

Internal crystal clock; processor-controlled resetting for synchronized operation with transmitters. Optional external

approx. 13 kg $32 \times 36 \times 27$ cm high resilient, tough PVC alloy 3 multipin connectors for analog inputs, 2 of which have power

The Turbo V4 is an upgraded version of the V4 receiver, with a new, high-performance CPU board.

The Turbo V4 processor is 50 times faster than the original V4 processor, and features 12 times as much ROM/RAM memory for stored programs and data.

Programs for the Turbo V4 are written in high-level languages; the data processing is therefore much more efficient and intelligent than on the old CPU, which used assembler language only.

Also, the new CPU is programmable^{*}. Users can develop their own programs in FORTRAN or C language using the IBM PC (or compatible), then download them into the V4. This capability means the V4 will remain up-to-date for years, and can be matched precisely to the user's applications.

* Optional.

SPECIFICATIONS

	Analog Section	0	Environmental
Number of channels	2, 4, 6 or 8 (in pairs) + 10 volts	temperature	-10°C to +50°C
Frequency range	T024 sec to 4 kHz (SIP); 4 sec to 4 kHz (CSAMT) in binary or 2/3 binary steps	Storage temperature	$(-20^{\circ}\text{C with LCD heater})$ -50°C to +60°C
nput impedance Powerline filtering	More than 100 megohins at low frequencies.	Humidity Shock and vibration	Splashproof, may be operated in light rain Suitable for transport in bush vehicles.
owernine intering	50/60 Hz. Switchable in/out.		Battery
Other filtering	Bad sample rejection; offset adjustment; programmable anti-alias filters; slope correction (TDIP) all under processor and/or manual		12 v / 6 Ah rechargeable battery. Nominal 10 h continuous operation at + 20°C. Provision for external 12V battery supply.
lain	CONTROL. Automatic or manual control, ranne of 1 to 640		Inputs
DC offset Calibration	Processor controlled DC offset control, range: ± 2.5 volts. Manual external calibration; processor-controlled, internal	Signal channel Battery	Three multipin connectors for 8 analog inputs. $(6 + 1 + 1)$ Multipin connector for external battery or for charging of the
Sensitivity	calibration with built-in calibration/test signals: 1/128 Hz to 4 kHz ± 5 v, 200 ohm impedance; 50% or 100% duty cycle. Sufficient for stand alone controlled source applications.	Remote clock signal Current Monitor	internal battery @ 12 V, approx 1.2 A. Optional input. Twin plugs for RF modulated signal from transmitter (for real-time
•	Digital Section		deconvolution)
Processor/CPU board	32/16 bit NS32C016 with NS32081 maths coprocessor. Clock		Outputs
	rate 6-10 MHz. Programmable interrupt controller with 16	Analog meters	Eight analog meters
	request lines. MULTIBUS interface. DIN connectors. On-	Display Anolog outputs	16 char × 4 lines LCD
Monitor firmware	Monitor firmware interfaces to National 32000 series soft-	External isolated	o outputs for analog recorders, etc. ±5v range. (Optional)
	ware development tools. Also provides run time environment,	transmitter drive	Via special purpose isolated RF link.
	terminal handler, debugger execute module, floating point	Calibration signal	Twin connectors
Indications	support module and interrupt nandler.		Switches and Controls
irmware	Initially offered with geophysical applications firmware, for IP in time, frequency, or phase domain; spectral IP; resistivity; and CSAMT. Other offerings (such as FDEM) may become available from time to time. The user may develop pro-	Keyboard Dn/off Meter Mode Battery test Input Select	20-key alphanumeric/command keypad (waterproof). 2 position rotary. 2 position toggle, AC or DC 2 position toggle.
	PC or compatibles and download into the V4.	Note : Specifications su	biect to change. Customized configurations are available.
		•	

Induced Polarization (Time Domain or Frequency Domain), CSAMT, Time Domain EM, Resistivity

Lightweight: 12 kg

Low cost

Wide range of power sources: 50Hz, 60Hz or 400Hz motor generators or mains power; or 12V batteries

DC-8192Hz, Time Domain or Frequency Domain

The most versatile geophysical transmitter ever made



Applications

The IPT-1 is a highly versatile, multipurpose geophysical power source which may be used for several different geophysical techniques. The IPT-1 accommodates either inductive loads (loops) used in the TDEM, or FDEM techniques, or grounded dipoles as used in IP and CSAMT techniques.

The IPT-1 design is based on more than 35 years experience of Phoenix transmitter designers, and it has been used in countless field surveys under every climatic condition worldwide.

The IPT-1 may be equipped with three different internal power modules. The BPS-3 module utilizes rechargeable gel-cell batteries. The AC3006 and AC3007 modules utilize AC power provided by motor generators or mains power supply. When equipped with an optional inverter, the AC3006 and AC3007 may also utilize 12V batteries. One of the most beneficial features of the IPT-1 is its ability to use a wide range of input power sources. These include standard geophysical 3-phase 400Hz motor genefators, such as Phoenix MG-1, MG-2 or MG-3 units; commercially available single-phase 50Hz or 60Hz motor generators; 50Hz or 60Hz mains power supply; or 12V batteries. The ability to use commercially available 50Hz/60Hz motor generators means that the user can easily obtain spare parts/service for the motor generator almost anywhere in the world.

The motor generators may be of any power up to 3.5KVA, with output frequency in the range 50Hz to 1,000Hz. The actual output power of the IPT-1 is limited by the input power.

The IPT-1 is lightweight and highly portable: 13 kG with BPS-3 power module; 12Kg with either AC3006 or AC3007 power modules.

Specifications

Dimensions	20 x 40 x 55 cm (9 x 16 x 22 in.)	Output power	Maximum 3 Kw (AC3006, AC3007); 250 W
Weight	13 Kg (29 lb) with internal battery pack 12 Kg (27 lb) with AC3006 or AC3007		(875-3) Limited by maximum available input power
Environmental	Operable over the temperature range -40° C to $\pm 50^{\circ}$ C	Output current	3mA to 3A (BPS-3); 20mA to 10A (AC3006, AC3007)
	Thermal protection for over-temperature Note: BPS-3 battery capacity is significantly reduced at lower ambient temperatures	Timing options	A wide range of internal and external timing options is available, for both frequency domain waveforms (square wave) or time domain waveforms (50%
	CONTROLS, METERS, REGULATION		duty cycle square wave). The time domain
Ammeter	6 ranges 30mA, 100mA, 300mA, 1A, 3A, 10A full scale		waveforms are suitable for time Domain IP and (in AC3007) for Time Domain EM. Standard internal timing is based on crystal oscillators with frequency stability of
Meter display	A function switch selects display of: current, regulation status, input frequency, output voltage, control voltage, line voltage		nominal \pm 50 ppm. The IPT-1 may also be slaved to an external timing source. This may be accomplished by cable link to any suitable geophysical
Current regulation	Output current change is controlled to $\pm 0.2\%$ for $\pm 10\%$ change in input voltage or electrode impedance. Regulation is done internally, without connection to MG unit		receiver. For receiver operation without connection to the transmitter, any suitable "transmitter controller" may be utilized, with or without precision oscillators, as required. Contact Phoenix for details of timing options
Protection	Overcurrent (150% of full scale) Undercurrent (5% of full scale) Overvoltage (130% of full scale) Undervoltage (10% of full scale)	TDEM operation	The turn-off time of AC3007 into a resistive load is approximately 3 microseconds. The turnoff time into a turical 100m x 100m loop at used in TDEM.
Output voltage:	100, 200, 300, 500, 800V nominal (BPS-3) 300, 600, 1200V nominal (AC3006)		is a linear ramp of duration approximately 100 microseconds.
	200, 400, 800V nominal (AC3007)	Frequency range	DC-8192Hz (AC3007) DC-4HZ (BPS-3, AC3006)



Motor Generators

There are three motor generators, differing in weight and power, which can be used with the transformer power modules. All three supply three phase 400 Hz (350 to 600 Hz), 60V (45V to 80V). The voltage is regulated by feedback from the transmitter.

MG-1: This lightweight unit is designed for easy portability in areas of moderately high resistivity. It is well suited for massive sulfide exploration in Northern Canada, Europe and Asia, as well as general IP and resistivity surveys in rugged, mountainous areas around the world. The motor is a 4-cycle Briggs and Stratton which produces 3 HP at 3600 rpm. The dimensions of the unit,





MG-2: 2KVA motor generator. This versatile unit is adequate for the vast majority of IP and resistivity surveys conducted worldwide. It is light enough to be carried by one man, yet powerful enough for most survey requirements. The motor is a 4-cycle Briggs and Stratton which produces 5 HP at 3600 rpm. The dimensions of the unit, including packfrome, are 40 x 45 x 60 cm (16 x 18 x 24 in). Total weight is 34 kg (75 lb).

MG - 3 : 3KVA motor generator. This two-man portable unit is designed for surveys in areas which require additional power. The motor is a 4-cycle Briggs and Stratton which produces B HP at 3600 rpm. The unit is mounted in a square frame with dimensions 40 x 48 x 75 cm (16 x 19 x 29 in). Total weight is 55 kg (120 lb).



[,] including packframe, are 40 x 45 x 60 (16 x 18 x 24 in). Total weight is 25 kg (55 lb).

Magnetic Surveying

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 field 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) Remnant 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, OMNI IV with an proton precession 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 proton procession magnetometer collected the data with a 0.5 nanoTesla accuracy. The operator read each and every line at a 12.5m 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 OMNI IV 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.



OMNI-IV MAGNETOMETER SYSTEM Technical Specifications

(from OMNI-IV MAGNETOMETER Operating Manual)

Physical Dimensions	Wt(kg):	w x h x d(mm)
Instrument console only Battery belt Battery cartridge	3.8: 1.8: 1.8:	122 x 246 x 210 540 x 100 x 40 138 x 95 x 75
Sensors		
Magnetometer remote sensor Magnetometer gradient sensor		56 dia x 220 56 dia x 220
Environment		
Magnetometer Sensors Temperature range Relative humidity	45° 0 to	C to +55°C 100 % (weather proof)
Standard Memory Capacity		
Field unit Tie-line points Base station		
Electronics		
RS-232C serial I/O		
Electronics console	Enclosure contains electronics and battery pack (if not contained in separate belt). Front panel includes liquid crystal display (LCD), and keypad.	
Power Supply		temal battery pack or external battery (base station)

Ontario	Ministry of Northern Development and Mines
-	<u>No.</u>

Report of Work Conducted After Recording Claim

Transaction Number N9620.00124

ment work or consult the Mining

Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264. **2.1**6880

Instructions:	- Please type c	or print and submit in duplicate.
	- Refer to th Recorder.	
	- A separate - Technical	52M01SE0068 2.16880 BALL

- A sketch, s

his form.

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Recorded Holder(s) Shane Resources Ltd.		Client No. 193283
Address 2nd Floor, 901-3rd Avenue North, Sc.	skaturn, Jask S7K2K1	Telephone No. (306) 664-3928
Mining Division Rod Lale	Township/Area	M or G Pian No. G 3740
Dates Work From: January 4, 1996	To: February 23,	1496

Work Performed (Check One Work Group Only)

Work Group	Туре		
Geotechnical Survey	Linecatting, Magnetometer & 1P Survey		
Physical Work, Including Drilling	-	DECEIVED	
Rehabilitation			
Other Authorized Work		NOV 7 1996	
Assaya	•	MINING LANDS BRANCH	
Assignment from Reserve	· · · · · · · · · · · · · · · · · · ·	6JK	

\$-12,829.00 12116.00 Total Assessment Work Claimed on the Attached Statement of Costs

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address	
Stores Contracting (LC)	1124 West Arthur Street, Thunder Boy, Ont.	PTE 612
Belanger Geoghysics (18)	37.5H Street, A Box 1196, Rougn-Noranda, PQ	J9K 6E3
Bruce Machachlan (Mag)	16 Po Box 1205, 60 Shirley St. South, Timmins, Out	P4N 735
Matthew Johnston (Author \$ 19 Interpretation)	IC	

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Oct 25,1996	Recorded Heider or Agent (Signature)	
		George J. Koleczer	

Certification of Work Report

I certify that I have a perso its completion and annexe	onal knowledge of the facts set forth in t d report is true.	this Work report, having performed the	work or witnessed same during and/or after
Name and Address of Person	Certifying		- DUNITE
Stephen Cong	uer to to Box 1205, 60 shi	Hey St. bulk, limmins , MAT	. FYN 135
Telepone No.	Date	Certified By (Signature)	0
(705)268-960	DO Othe 25	1995 Atop	Gra
For Office Use Only		14	RECEIVED
Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Starp LAKE MINING DIY.
	Cclober 29/96	Dalhala Komps	
44 00	Deemed Approval Date	Date Approved	UCI 2 7 1996
	Jan 87 197		AM Ph)
12,110	Date Notice for Amendments Sent		7,8,9,0,11,12,1,2,3,4,5,0
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Work Reports |Claim Number |s of | for Applying |(see note 2) |Claim| Value of Assesment Work Done Values Assigned from this Claim **IReserve:Work** to be Value Applied laimed a for Applying [[see note 2] to this Claim a future Date Reserve lUnitsi on this Claim IKRL 0.008.9291 -1 1.101.00 1.101.00 v C KRL 0.448.434 1 2.158.00 2.158.00 ₩IKRL 0.448.43514 1 1.841.00 1.841.00 VIKRL 0.448.436111 1.318.00 1.318.00 VIKRL 0.448.4371 1 2.467.00 2.467.00 /IKRL 0.448.439 01 1.240.00 1.240.00 IKRL 0.775.338 0.00 996.00 1 KRL 0.827.859 595.00 1 0.00 <u>6880</u> KRL 0.827.860 595.00 1 0.00 KRL 0.827.861 595.00 0.00 1 IKRL 0.827.862 1 0.00 595.00 595.00 KRL 0.827.863 1 0.00 IKRL 0.827.864 595.00 0.00 1 IKRL 0.827.865 0.00 595.00 1 IKRL 0.827.866 1 0.00 595.00 595.00 IKRL 0.827.887 0.00 1 İKRL 0.827.868 1 0.00 595.00 KRL 0.827.869 595.00 1 0.00 595.00 İKRL 0.827.870 0.00 1 CEIVED R IKRL 0.827.871 1 0.00 595.00 NOV 7 KRL 0.827.872 1 0.00 595.00 1996 KRL 0.827.873 0.00 595.00 1 MINING LANDS BRANCH KRL 0.827.874 595.00 1 0.00 KRL 1.057.573 1.040.00 800.00 240.00 1 KRL 1.057.6841 1 951.00 800.00 151.00 12.116.00 12.118.00 10.516.00 0.00 25 Total Value Work Done Total Assigned From Total Value Work Applied Total Reserve Total Number of Claims Credits you are claiming in this report may be cut back. In order to minimize the adverse affects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (x) one of the following: Credits are to be cut back starting with the claims listed last. working backward RECEIVED 1. RED LAKE MININO DIV. Credits are to be cut back equally over all claims contained in this report of work. 2. X UCI 2 9 1996 PM Credits are to be cut back as priorized on the attatched appendix. AM 7,8,9,10,11,12,1,2,3,4,5,6 Credits are to be cut back starting with the claims that have reserve credits. In the event that you have not specified your choice of priority, option one will be implemented. Note 1: Examples of beneficial Interest are unrecorded transfers. option payments. memorandum of agreements. etc..

Details for Work Report # SUPONT96.048



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines



Les renseignements personnels contenus dans la présente form recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un

mini

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	1544.00	
	Field Supervision Supervision sur le terrain		1544.00
Contractor's and Consultant's	Type LC	3654.00	
Fees Droits de l'entrepreneur	IP	6109.00	
et de l'expert- conseil			9768-00
Supplies Used Fournitures utilisées	Туре		
-			
Equipment Rental Location de	Mayactimeter	135.00	
matériel			
			1391-00
	Total DI Total des co	rect Costs Dts directs	11451.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Certification Verifying Statement of Costs

I hereby certify:

that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

(Recorded Hober, Ad _ I am authorized that as . r, Agent, Position in Company)

to make this certification

2. Indirect Costs/Coûts Indirects

(Ontario) P3E 6A5, téléphone (705) 670-7264.

** Note: When claiming Rehabilitation work Indirect costs are no allowable as assessment work. Pour le remboursement des travaux de réhabilitation, le coûts indirects ne sont pas admissibles en tant que travau d'évaluation.

des concessions minières. Adresser toute quesiton sur la collect renseignements au chef provincial des terrains miniers, mini Développement du Nord et des Mines, 159, rue Cedar, 4º étage,

Туре	Descripti	on	Amount Montant	T Tota
Transportation Transport	Type Rentaltand	لرخ بهمن	J14-00	
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Food and Lodging Nourriture et hébergement	Rod Dayton Red Luke	-	328.00	3,
Mobilization and Demobilization Hobilisation et démobilisation	If Crew		118.00	(I
L, <u></u> <u></u>	Sub Tot Total partiel	al of India des coûts	ect Costs Indirects	61
Amount Allowable : Montant admissible	not greater than (n'excédant pas	20% of Dir 20% des (ect Costs) coûts directs)	61
Total Value of Asse (Total of Direct and i indirect costa)	ssment Credit Ulowable	Valeur tota d'évaluatio (Total des co et indirects a	le du crédit n dits directs idmissibles	1211

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demand le présent état des coûts dans les 30 jours suivant une demar effet. Si la vérification n'est pas effectuée, le ministre peut rej ou une partie des travaux d'évaluation présentés.

Remises pour dépôt

- 1. Les travaux déposés dans les deux ans suivant leur achèveme remboursés à 100 % de la valeur totale susmentionnée du crédit d'én
- 2. Les travaux déposés trois, quatre ou cinq ans après leur aché sont remboursés à 50 % de la valeur totale du crédit d'év

Valeur totale du crédit develuation Service Direction de la crédit develuation de la crédit de la c tion totale dem



que les montants indiqués sont le plus exact possible et q dépenses ont été engagées pour effectuer les travaux d'éva sur les terrains indiqués dans la formule de rapport de travail

Et qu'à titre de je suis a (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.



Ministry of Ministère du Ontario Northern Development Développement du Nord and Mines et des Mines Geoscience Assessment Office February 3, 1997 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5 Scott A. Rivett Mining Recorder Telephone: 670-5853 (705)**Ontario Government Building** Fax: (705)670-5863 227 Howey Street, Box 324 Red Lake, ON **POV 2M0** Dear Sir or Madam: Submission Number: 2,16880 Status

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

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

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jerome_l@torv05.ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ACGAN.

which has received a 45 Day Notice.

ORIGINAL SIGNED BY Ron C. Gashinski Senior Manager, Mining Lands Section Mines and Minerals Division

Correspondence ID: 10544 Copy for: Assessment Library



Subject: Transaction Number(s): W9620.00124 **Approval After Notice**

Work Report Assessment Results

Date Correspondence Sent: February 03, 1997		Assessor: Lucille Jerome		
nsaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
620.00124	8929	BALL	Approval After Notice	January 31, 1997
Geophysical IP Geophysical M/	AG			
ondence	e to:		Recorded Holder(s) and/or Agent(s):
) Recorder ake, ON			George J. Koleszar TIMMINS, ONTARIO	
dent Geologist Lake, ON	t		SHANE RESOURCES LT SASKATOON, SASKATC	D. HEW
ssment Files bury, ON	Library			

























