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MINING LANDS SECTIO:

Report of Magnetic and Electromagnetic Survey

on the Cleaver Property,

(Little Night Hawk Lake), Cleaver Township

District of Timiskaming

May 7, 1982

Timmins, Ontario

D.R. Pyke, Ph.D.

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Figure 1 - Summary of geophysical data

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Location

The property is located in the northwest portion of Cleaver Township, District of Timiskaming, Larder Lake Mining Division. The property includes the following claims:

\mathbf{r}	568772	\mathbf{r}	568775
\mathbf{r}	568773	L	568776
\mathbf{L}	568774	L	568777

Access

An all weather logging road, extending from major roads in the Timmins area, traverses the west side of Fallon Township and extends east across Cleaver Township immediately north of Little Night Hawk Lake. The claim group is readily reached via trail extending south from the road along the west shore of Little Night Hawk Lake, or via canoe to the south end of the lake. Little Night Hawk Lake is also readily accessible via fixed wing aircraft from Timmins, located 25 miles northwest of the property.

Previous Work

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There has been little formal mapping in the area, other than a sketch map by Hopkins (1924) and a reconnaisance by Pyke (1978).

A portion of these claims were originally held by D. O'Connor in the 1920's, and mineralization was described as occurring in an altered iron formation containing pyrite, limonite, arsenopyrite, galena, sphalerite, chalcopyrite, cobalt bloom, quartz and calcite (Hopkins, 1924). The earliest recorded assessment work on the property is that of Paymaster Consolidated Mines Limited in 1956 (File 63A-319)*. Paymaster mentions three showings on the property.

1. Côte' Showing. Mineralization consists of silver, lead and zinc occurring in a vein 75 feet long and 18.5 inches wide. Surface samples from the vein averaged 16.1% lead, 8.7% zinc and 1.94 ounces silver. Drill samples over a similar width averaged 2.73% lead, 8.7% zinc and 0.395 ounces silver. Eleven diamond drill holes, totalling 1057 feet, tested the vein to a vertical depth of 60 feet. Two of the deeper holes did not encounter the vein, and it was inferred that it does not extend to depth.

2. Moody Lee Showing. In 1950, this showing was reportedly mapped and sampled by Hollinger Mines Limited; the highest assays obtained were 0.06 ounces gold, 1.27% lead and 3.44 percent zinc. There had previously been an assay reported of 0.8 ounces of gold per ton, which could not be duplicated by Hollinger.

<u>3. Pyrrhotite Showing</u>. This would correspond to the original O'Connor showing. No ore values were detected by Paymaster, and the mineralization is described as disseminations and stringers of pyrrhotite in a ten foot wide band of acidic lava.

* Ontario Division of Mines, Assessment Office, Toronto, Ontario



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LEGEND

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AMAX HLEM 1977
MAX VLEM 1976
Approx. location of mperial Oil HLEM 1975
nput Anomoly



Paymaster conducted an electromagnetic (VLEM) and magnetic survey over the property and located a number of moderate to weak conductors, none of which were tested by drilling.

In 1972, Noranda Exploration Company Limited conducted an electromagnetic (SS15 VLEM) and magnetic (M-700 fluxgate) survey over the property, and detected five weak to moderate conductive zones that trend north to northwest (File 2-960)*. No follow-up drilling was undertaken.

In 1975, Imperial Oil Limited conducted electromagnetic (SF-600) and magnetic surveys on two claims largely within the northern half of the property. One relatively weak conductor was outlined (File 2-2075)*.

In 1975-1976, Amax Exploration did exploration work on two claims adjoining the north side of the Imperial Oil claims and straddling the northern boundary of the present property. The claims were staked to acquire an airborne imput anomaly detected by an Ontario government survey (ODM, 1975). Electromagnetic (VLEM and HLEM) and magnetic surveys were carried out, and two weak conductors were detected. Subsequent trenching showed the anomaly to result from stringers of pyrrhotite and pyrite in tuffaceous sediments (Files 2-2345, 2-2586, 2-2065)*.

General Geology

The property is within volcanic rocks near the eastern margin of a granodiorite stock that underlies much of

* Ontario Division of Mines, Assessment Office, Toronto, Ontario

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Geikie Township immediately to the west. Ultramafic volcanic rocks are intermittently draped around the stock (Pyke, 1978), and older calc-alkaline volcanics are locally domed up at the periphery of the stock. Cobalt Group sediments form a high ridge to the east of the property and fill a north trending fault zone of regional extent.

Property Geology

The property appears to be underlain by dacitic to andesitic volcanic rocks of calc-alkaline affinity (Pyke, 1978). Pillowed and amygdaloidal flows with assocated pillow breccias predominate. Paymaster (File 63A-319)* reports that pyroclastic rocks are not uncommon. Magnetic data (GSC, 1970) suggests that a north trending fault crosses the western half of the property.

Magnetic Survey

The magnetic survey was conducted during the period February 26 - February 28, 1982. The survey is approximately tied into the government station M-71-56 at the Kenilworth Mine, having a value of 59875 gammas. A base station on the property at 425N - 075W was used for diurnal control during the survey.

Magnetic readings were taken with a Geometrics portable proton magnetometer model G-816. The instrument measures the total magnetic field directly in gammas (see enclosed specifications). Readings were taken every 50 feet along cut lines spaced at 200 foot intervals; a total of 1043 readings were

*Ontario Division of Mines, Assessment Office, Toronto, Ontario

taken. Background magnetics are in the order of 700 to 800 gammas.

Results and Conclusions

The magnetic survey outlined a number of zones of anomalous readings. The most prominent is a linear magnetic high near the east boundary of the property, which probably reflects the presence of a northerly trending diabase dike. A westerly trending magnetic high extends from the presumed diabase, and is interpreted as an offshoot of such. However, this west trending magnetic high terminates at the base line where a northwest trending magnetic high extends between 10N and 4N. This latter magnetic high would correspond to one of the pyrrhotite-rich zones previously exposed in trenches by Amax Exploration.

The magnetic high extending northwest across claim L 568777 corresponds to the same magnetic zone delineated by Amax, and subsequently shown by trenching to be caused by pyrrhotite-rich metasediments. Although obscured by the west trending "diabase dike", the magnetics suggest that the pyrrhotite zone extends across the southwest corner of claim L 568772 to line 0+00 at approximately 700 to 950E. There is a suggestion that this magnetic high, and corresponding pyrrhotite-rich zone extends to the south boundary of the claim group on line 18S-750E.

The Côté lead-zinc showing was not located at the time of the survey because of the snow cover. However, the magnetics suggest that the Côté showing may form an extension of the same pyrrhotite-rich metasediments exposed by Amax.

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This is best resolved by a field examination once the snow is gone.

Electromagnetic Survey

The electomagnetic survey was conducted during the period February 26 to February 28, 1982. The instrument used was a Scopas VLF electromagnetic unit, model SE-80, manufactured by Scintrex. Specifications of the unit are attached. The transmitter station used for the present survey was Cutler, Maine, which uses a frequency of 17.8 kHz, with a radiated power of 1000 kW.

Electomagnetic readings were taken at 50 foot intervals along cut lines spaced at 200 foot intervals, for a total of 1043 readings.

The VLF data is presented in contoured form, following the method outlined by Fraser (1969). The Fraser filter value enhances the in-phase cross-overs recorded from the normal dip angle measurements and allows the data to be contoured (ie. it is a method of changing from profile data to contour data).

Results and Conclusions

At least four (A to D) reasonably well defined electomagnetic (VLF) conductors are present on the property. <u>Conductor A</u> - The most prominent conductor, and has a coincident magnetic high. This would correspond to the pyrrhotite-rich metasediments exposed by the previous trenching of Amax. Whether the Côte' showing is the southeast extension of the same anomaly would be best

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determined by a field check of the geology.

<u>Conductors B, C, D</u> - None of these conductors have a corresponding magnetic expression, and are most readily interpreted as being caused by conductive clay in lake bottom and overburden sediments. Preliminary data on a horizontal loop EM survey on the property would tend to support the interpretation that conductors B, C, and D are not of a bedrock source.

Recommendations

Geological mapping of the property to aid in verification of the magnetic and electromagnetic anomalies detected in this survey. Further work dependent on the geological mapping.

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References

Fraser, D.R.

1969: Contouring of VLF-EM Data; Geophysics, Vol. 34, No. 6, p. 958-967

0.D.M. - G.S.C.

1970: Peterlong Lake Sheet, Sudbury and Timiskaming Districts, Ontario; Ont. Dept. Mines - Can. Geol. Survey, Aeromagnetic Series Map 291G(Rev), scale 1 inch to 1 mile.

Hopkins, P. E.

1924: Notes on gold in McNeil and other Township;
Ontario Dept. Mines, V. 33, pt. 3, P. 37-40.
Accompanied by sketch map, scale 1 inch to 2 miles.

0.D.M. - G.S.C.

1975: Airborne Electromagnetic and Total Intensity Magnetic Survey, Cleaver Township, District of Timiskaming; by Questor Surveys Limited, for the Ont. Div, of Mines, Map P.1014, scale 1 inch to 1 mile. Flown in 1974.

Pyke, D. R.

1978: Geology of the Peterlong Lake area, Districts of Timiskaming and Sudbury; Ontario Geol. Survey, Report 171. Accompanied by Map P. 2345, scale 1:50,000

Certificate

I, D.R. Pyke, submit this document to certify that the following statements are, to the best of my knowledge, true and correct.

- That I supervised the geophysical surveys conducted on the Little Night Hawk Lake, Cleaver Township Property, conducted on February 26 - February 28, 1982.
- 2. That I am the author of the corresponding assessment report entitled "Report of Magnetic and Electromagnetic Survey on the Cleaver Property, (Little Night Hawk Lake) Cleaver Township, District of Timiskaming".
- That I have received the following university degrees in geology:

B.Sc.	University of Saskatchewan	1959
M.Sc.	University of Saskatchewan	1961
Ph.D.	McGill University, Quebec	1967

4. That I have been working as a geologist in the general Timmins area for 15 years, and I am familiar with the geology of the area under consideration.

Respectful: ARe Re D.R. Pvl



The Model G-816 is a complete portable magnetometer for all man-carry field applications. As an accurate yet simple to operate instrument, it features an outstanding combination of one gamma sensitivity and repeatability, compact size and weight, operation on standard universally available flashlight batteries, ruggedized packaging and very low price.

The G-816 magnetometer allows precise mapping of very small or large amplitude anomalies for ground geophysical surveys, or for detail follow-up to aeromagnetic reconnaissance surveys. It is a rugged, light-weight, and versatile instrument, equally well suited for field studies in geophysics, research programs or other magnetic mapping application where low cost, dependable operation and accurate measurements are required.

For marine, airborne or ground recording systems consider GeoMetrics Models G-801, G-803, and G-826.



"Hands-free" Back Pack Sensor

Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The proton precession method is the officially recognized standard for measurement of the earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field polarity, or arbitrary reference levels. Operation is very simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability—an important consideration even for 10 gamma survey resolution.



Complete Field Portable System

The Model G-816 comes complete, ready for portable field operation and consists of:

- 1. Electronics console with internally mounted and easily replaced "D" cell battery pack.
- 2. Proton sensor and signal cable for attachment to carrying harness or staff.
- 3. Adjustable carrying harness.
- 4. 8 foot collapsible aluminum staff.
- 5. Instruction manual, complete set of spare batteries, applications manual, and rugged field suitcase.

Price and lease rates on the G-816 magnetometer are available upon request.

SPECIFICATIONS

Sensitivity:	±1 gamma throughout range
Range:	20,000 to 90,000 gammas (worldwide)
Tuning:	Multi-position switch with signal amplitude indi- cator light on display
Gradient Tolerance:	Exceeds 300-gammes/ft-(increased gredisht tol- arrogginto-800 gammas/ft upon muticat)
Sampling Rate:	Manual push-button, one reading each 6 seconds
Output:	5 digit numeric display with readout directly in gammas
Power Requirements:	Twelve self-contained 1.5 volt "D" cell, univer- sally available flashlight-type batteries. Charge state or replacement signified by flashing indi- cator light on display.
	Battery TypeNumber of ReadingsAlkalineover10,000Premium Carbon Zincover4,000Standard Flashlightover1,500
	NOTE: Battery life decreases with low temper- ature operation.
Temperature Range:	Console and sensor: -40° to +85°C
	Battery Pack: 0° to +50°C (limited use to -15°C; lower tempera- ture battery belt opera- tion—optional)
Accuracy (Total Field):	± 1 gamma through 0° to +50°C temperature range
Sensor:	High signal, noise cancelling, interchangeably mounted on separate staff or attached to carry ing harness
Size:	Console: 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm) Sensor: 4.5 x 6 inches (11 x 15 cm) Staff: 1 inch diameter x 8 ft lenght (3 cm x 2.44 m)
Weight:	Lbs. Kgs. Console (w/batteries): 5.5 2.4 Sensor & signal cable: 4 1.8

All magnetometers and parts are covered by a one year warranty beginning with the date of receipt but not to exceed fifteen months from the shipping date.

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SE-81 SCOPAS II same overall specifications ----as SE-80 but with newly revised electronics for increased useable gain for remote stations.



The SCOPAS* VLF System employs V.L.F. Radio Stations in the 15 to 25 kHz Range as primary field sources. The undisturbed field from these remote sources is essentially horizontal and of relatively constant strength. When conductors are present, the geometry and amplitude of the field are locally distorted and polarization of the field may occur.

With the versatile SCOPAS* unit, all amplitudes and geometric parameters as well as the characteristics of the polarization ellipse can be measured. For fast reconnaissance surveys dipangle and field directions can be rapidly determined. For detailed surveys, ampli-*Can Fit \$78765 tude relations and the elliptical polarization in the horizontal and vertical planes can be determined as well. Thus, the operator can select the parameters most useful for his search problem.

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SPECIFICATIONS OF SCOPAS VLF ELECTROMAGNETIC UNIT MODEL SE-80

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• 1.*		
	Primary Field:	From any selected VLF transmitting station in frequency range between 15.4 kHz to 25 kHz.
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•	Station Selection:	By means of an eight step switch and variable control covering full range.
- ,	Measured Values:	a) The azimuth of horizontal field.
		b) The dip of the axis of the coil at the minimum field, measured from the vertical.
		c) The amplitude of the horizontal field strength in any direction.
	n an	d) The amplitude of the vertical field strength.
		The phase angle between the maximum horizontal and ver- tical field can be calculated from measured values.
	Normal Reading Accuracy:	Amplitude $\pm 2\%$. Azimuth $\pm 2\%$.
		Dip $\pm 1^{\circ}$. — Dependent on signal strength.
•	Batteries:	Two 9 volt dry cells.
	Dimensions:	9.66″x 3.68″x 5.80″ 24.5 cm x 9.4 cm x 14.7 cm
•	Malake.	3 lbs (1 35 kg)
	weight.	5 153. (1.55 kg)
	Accessories:	Carrying strap.

SCINTREX LIMITED 222 Snidercroft Road - Concord, Ontario, Canado

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Type of Survey(s) GEO PHUSICAL	
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Survey Company <u>Nousex</u> Explored 1101 Author of Report <u>D. R. Pyke</u> . Address of Author <u>157 BURBANK DR, WILLOWDALE</u> Covering Dates of Survey <u>FEB - MAY 1982</u> (linecutting to office) Total Miles of Line Cut <u>11.36 miles</u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SPECIAL PROVISIONS CREDITS REQUESTED DAYS per claim ENTER 40 days (includes line cutting) for first Electromagnetic 20 Ine cutting) for first Magnetometer 40 survey. -Radiometric 40 ENTER 20 days for each -Other 60 additional survey using Geological 60 same grid. Geochemical 40 AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer Electromagnetic Magnetometer Electromagnetic Radiometric 10 OATE: May 1/82 SIGNATURE: Author of Report/or Agent	<u>2</u> <u>568</u> 777
Res. Geol. Qualifications <u>Previous Surveys</u> File No. Type Date Claim Holder	
	TOTAL CLAIMS6

837 (5/79)

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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Survey Method	
Corrections made	

RADIOMETRIC

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Energy windows (levels)		
Height of instrument	Background Count	
Size of detector		
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	(type, depth — include outcrop map)	
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Numbers of claims from which samples taken_____

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(STI-4)

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	Reagents Used							
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	Analytical Method	<u> </u>						
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Mining Lands Comments

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D.R. Pyke and Associates Inc.

157-Burbank Drive Willowdale, Ontario M2K 1N9- Telephone (416) 221-6210 \$81-2825

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MARCH 1, 1983

E.F. ANDERSON DIRECTOR LAND MANAGEMENT BRANCH ROOM 6450 WHITNEY BLOCK QUEENS PARK TORONTO MTA IW3

RECEIVED

MAR 3 1983 MINING LANDS SECTION

RE: Geophysical Survey on Claims 1568772 et al in Cleaver Township. FILE 2.4763

Enclosed are the VLF plans with the required readings plotted, as per your request of February 14, 1983

Sincerely D.R.Pyke.

1983 02 14

2.4763

D.R. Pyke 31 Delair Crescent Thornhill, Ontario L3T 2M3

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey submitted on Mining Claims L 568772 et al in the Township of Cleaver.

Enclosed is the V.L.F. plan, in duplicate, for the above mentioned survey. In order to complete your submission we require the raw reading to be plotted.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario 416/965-1380

Diane Wice:sc

Encls:

cc: Mining Recorder Kirkland Lake, Ontario



Geotechnical Report Approval

2.4763

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Mining Lands Comments

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Mining Recorder's Office Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 568772 et al in the Township of Cleaver.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

J. Skura/amc

cc: Wollex Exploration Willowdale, Ontario Attention: Mr. D.R. Pyke





