

1110NE0050 0057B1 DAVIS

010

ELECTROMAGNETIC VLF SURVEY
REFORT

on the

FORTUNE LAKE GOLD FROFERTY

DAVIS TOWNSHIP, CHTARIO

SUDBURY HINING DIVISION

DISTRICT OF SUDBURY

for

FELANGID-LARGER MINES LTG.

Henry F. Hutteri, E.B.:

Geologist

August 39, 1985

med 28385 RECEIVED

SEP 1 0 1985

MINING LANDS SECTION



1110NE0050 0057B1 DAVIS

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VLF Profile Map

in

back cover

#### INTECEUCTION

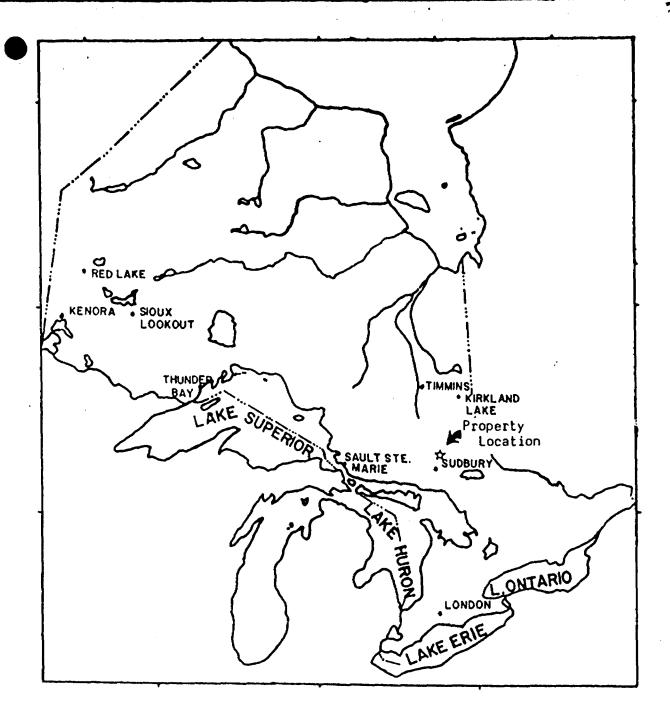
An electromagnetic VLP was conducted on the seven (7) contiguous claims of the Fortune Lake Claim Group located in Davis Township. Sudbury, Mining Division, Ontario.

The purpose of this survey was to define lithological units, identify the locations of faults and shear zones, and to locate favourable areas for gold mineralization.

The field work was conducted by Henry F. Hutteri in August of 1885. The interpretation and reports were also completed by Henry F. Hutteri on August 38, 1985.

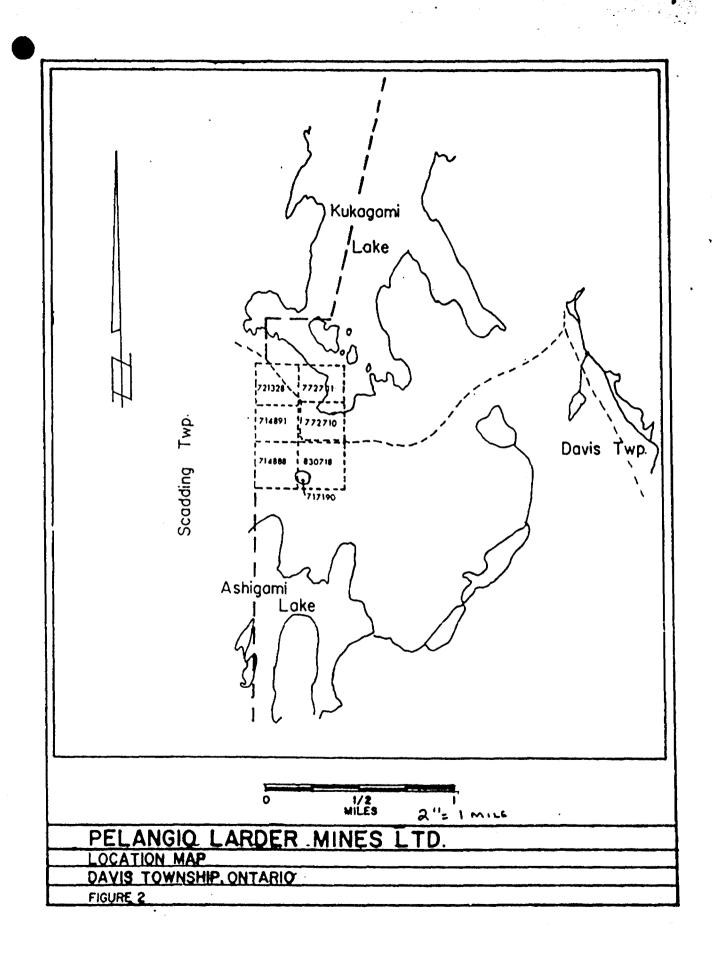
#### LOCATION AND ACCESS

The Fortune Lake Gold Property is located in concession 4. Lot 14, in Danis Township, approximately 26 miles northeast of Sudbury. Ontario (Latituda 46°41 Ni Longitude 80°34°M). The seven claims are located between Ashigami and Kukagami Lakes and access to the property can be gained via float plane to Ashagami Lake, then along an old portage trail for one-quarter mile to Fortune Lake. The property is also accessible by vehicle from Sudbury via Highway 17 eastward to Hagar, then north on Highway 53% to the Callie. line at Washagami and then northwest along bush roads which lead to the property itself (Figure 384°). Rukagami Lake road also passes through adjacent Scadding Township approximately three miles due west of the property. Two major railway lines that connect with Sudbury are located three miles (Canadian National) and twelve miles (Canadian Facific) respectively due south of the property.



PROVINCE OF ONTARIO

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	FORELAN	NGIO LARDEI	R MINES'LTD.
			D PROPERTY



#### PROFERTY DESCRIPTION

The Fortune Lake Gold Propert, consists of seven (7) contiguous unpatented mining claims located in Davis Township, Sudbury Mining Division, District of Sudbury, Ontario, and is further described as follows:

CLAIN HUNEEF	NUMBER OF CLAIME	DATE RECORDED
S-714998	OHE	Sept. 5, 1934
8-714891	OHE	Sept. 5, 1984
5-717190	CHE	April 19, 1384
9-721329	CHE	Sept. 5, 1984
5-772710	CHE	Sept. 5, 1394
5-772711	CNE	Sept 5, 1984
S-830718	ONE	Oct.31, 1984

Motel \* Land under Fortune Lake! Time extension until Sept. 30 1985.

Current ownership of the aforementioned seven (7) claims is by Palangio-Larder Hines Ltd., P.C. Eox 1458, Timmins, Ontario P411 7112.

#### FRE''IOUS MORE

1807: The first work recorded on the property was Masses. Evan & Sir William Hackenzie et al who sank a 35-foot inlined shaft on a gold-bearing quartz vein on the former W.E. 35 mining claim (presently S-8307118). Later a second inclined shaft, located 200 ft. from the first was sunk to 100 feet. The property was privately held at the time by Ewan

Mackenzie and was known as the Mackenzie Mine. Following the death of Sir William Mackenzie some time after 1914 (he was the last of the original owners) all development of the mine ceased and the property was placed in trust on behalf of his estate.

1934) Mac-Auer Gold Mines Limited acquired through Option priciledge the right to purchase Claim W.E. 35. Their prospectus quoted selected excerpts from a number of reports by American Engineers pertaining to the early underground development of the Mackensie Mine.

1934-35: The main shaft was deviatered and 30 feet of drifting was carried out on the 50-foot level. A 45-ton underground sample was run through a ten-ton amalgamation mill which had been erected on the property. There is no record of any further underground work on the Mackenzie Mine following the aforementioned mill test.

During a recent property examination two old diamond drill holes were found on the former W.E. 35 claim in the vicinity of Mackenzie Hine shafts! however, there is no record as to when said holes were drilled or results attained.

1934: Fatented Claim M.E. 35 came open for staking on the morning of October 31, 1934 and was immediately re-staked and recorded at that time as Mining Claim S-830718.

A magnetometer surve, covering the old shaft area and a subsequent Geological Report dated December 11, 1984 were completed by L.D.S. Winter, Consulting Geologist on behalf of Frivats interests.

#### GENERAL GEOLOGY

The geology of the Wanapitei Lake Gold Area which is pertinent to this report has been described in Ontario Department of Mines publications

dated 1992 % 1993; and by an Ontario Geological Survey Report dated 1983.

The rocks of the Wanapitei Lake area were formed during the Early, Middle and Late Precambrian. The eastern part of the area (Davis Township: is underlain mainly by sedimentary rocks of the Huronian Supergroup and by Mipissing gabbro. The rocks of the Huronian Supergroup were deposited in the Middle Precambrian after the Early Precambrian felsic plutonic rocks and before the Micissing intrusive.

A large part of Davis Township and adjacent parts of Stadding Township to west are underlain by Cobalt Group sediments, which form the upper part of the Huronian supergroup.

The Fortune Lake Gold Propert, is underlain by unlaminated wacker conglomerater argillits, with minor interbedded quartzite of the Gowganda Pormation, which is the basal formation of the local Group.

#### GEOPHYSICAL SURYEY

#### INTECEPOTION

An electromagnetic MLF survey was completed on 475 miles of cut grid lines using the Geonics EM16 unit. The transmitting station used for this survey was Cutler. Maine, which has a transmitting frequency of 24.0 kilohertz. The instrument specifications are located in Appendix I. A total of 263 readings were taken at 100 foot intervals along grid lines trending 040°. The grid lines were spaced 400 feet apart except on the former patented mining claim W.R. 35 where the grid lines were 200 feet apart.

The survey was conducted by the Author in August, 1985.

\*Note in Appendix.

#### FROCEDURES

Grid lines trending 040°were surveyed facing north at 100 foot intervals. The in-phase and quadrature values were recorded and are plotted on the profile map. The values on the left side of the survey line represent the in-phase values and the right side of the lines show the quadrature values.

#### INTERFRETATION

The interpretation was completed by the author on August 28, 1995.

One large zone of conductivity and two small conductors were detected and are lettered from "A" to "C". These conductors are described in detail as follows:

#### Conductor "A"

This is the strongest and most extensive conductor on the property. It has moderately strong in-phase response and is detected on lines 14 West through to line 8 East south of the baseline. The quadrature profile tends to follow the in-phase curves and the crossovers tend to be broad and flat. This conductor is suspected to be caused by conductive overburden. While the survey was being conducted in the field it was noted that the area where Conductor "A" lies was covered by a large swamp. The in-phase responses were the strongest where Fortune Lake was intersected by lines 0 and 2 East.

#### Conductor "E"

This is a short and relatively weak conductor located on line 10 West approximately 800 feet north of the baseling. It has a weak

in-phase response, a positive quadrature reading at the crossover and the quadrature profile tends to slightly follow the in-phase curve. The cause of the conductor is suspected to be caused by conductive overburden.

#### Conductor "C"

This is a short and relatively weak conductor located on line 22 West, just south of the line 4 North. It has a positive quadrature profile and is suspected to be caused by a steep slope which was noted to be present while the survey was being carried out.

The shear zone which passes through claim 8-820718 was not detected. This may be due to the shear zone being heated with quartz veining, thus reducing the amount of water which could accumulate within it.

#### CONCLUSIONS AND RECOMMENDATIONS

The anomalies "E" and "C" do not appear to be of any significance since the, are probably caused by conductive overturden and topography, but the, should be re-evaluated upon the completion of a geological survey. Shear zones, other that the one on the former patented claim W.E. 35 (830718) may be present on the Fortune Lake Gold Property, but may be undetectable as a result of being healed by quartz veining.

It is recommended that geological and ground magnetic surveys be completed on the entire claim block in order to locate fabrourable geology and structures. It is also recommended that an induced polarization surve; be carried out over claim 830718 in order to outline the existing mineralized shear zone for diamond drilling.

Darke, H. H.

1985: Freliminary Emploration Report on the Fortune Lake Gold Property.

Dressler, E.O.

1982: Geology of the Wanapitei Lake Area, District of Sudbury,

Ont. geol. Survey Report 213: 131 p.; accompanied by
coloured Map Nos. 2450-Otter Lake & 2451-Nassey Bay,
both at a Scale! I inch to 2640 feet.

Kindle, L.F.

1932) Moose Mountain-Manapitei Area; Ont. Dept. Mines.
Annual Report. Vol. XLI. Par IV, 1332, p.23-43.

Mac-Auer Gold Mines.

1934! Frospectus

Thomson, J.E. & Card. K.D.

1363: Kell, & Davis Townships: Ont. Dept. Mines Geological Report 15: 20 p.: accompanied by Map No. 2037. Scale I inch to 2646 feet.

#### CERTIFICATE

I, Henry Hutteri, of Timmins, Chtaric, hereby certify

that:

- I hold an Honour Eachelor of Science Dagrae in Geology from Laurentian University, Sudbury, Ontario., having graduated in June, 1985.
- 2: I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on results of field work conducted on the property.
- 3) I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Pslangio-Larder Hines Ltd., or any of its subsidiary companies.

Kenry Kutter

Henry Hutteri, H.B.Sc.

AFFENDIX I

\* Note:Readings over Fortune Lake were taken last winter using the same Base Line and flagged lines by Don Hillier.

Henry Hutten

Ploneered and patented exclusively by Georica Limited, the VLF method of electromagnetic surveying has been proven to be a major advance in exploration geophysical instrumentation

Since the beginning of 1985 a large number of mining companies have found the EM16 system to meet the need for a simple, light and effective exploration tool for mining geophysics.

The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good response from deeper targets is obtained.

The EM16 system provides the in-phase and quadrature components of the secondary field with the polarities indicated.

interpretation technique has been highly developed particularly to differentiate deeper targets from the many surface indications.

Principle of Operation

The VLF transmitters have vertical antennas. The magnetic signal component is then horizontal and concentric around the transmitter location.



## **Specifications**

£	-4	1	 41.04	

VLF transmitting stations.

Transmitting stations used

Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.

Operating frequency range

Parameters measured

(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid).

lure) component (the short axis of the long axis).

Method of reading

In-phase from a mechanical inclinometer and illustrature from a calibrated dist. Nulling by audio tone.

Scale range

Readability

About 15-25 kHz.

(2) The vertical out-of-phase (quadrapolarization ellipsoid compared to the

In-phase ± 150%; quadrature ± 40%.

± 1%.

Reading time

Operating temperature range

**Operating controls** 

**Power Supply** 

Dimensions

Welcht

instrument supplied with

Shipping weight

10-40 seconds depending on sign

strength.

-40 to 50° C.

ON-OFF switch, battery testing pi button, station selector, switch, volume control, quadrature, dial ± 40%, inclinometer dial ± 1509

6 size AA (penlight) alkaline cells. Life about 200 hours.

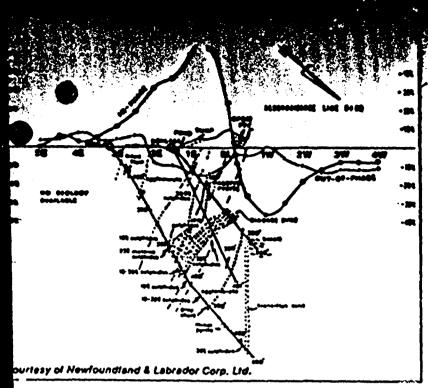
42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)

1.6 kg (3.5 lbs.)

Monotonic speaker, carrying cas manual of operation. 3 station sal plug-in tuning units (additional fr quencies are optional), set of batt

4.5 kg (10 lbs.)

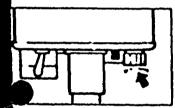




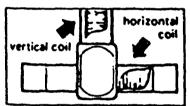


Arese of YLF Signals
Coverage shown only for welf-known stations. Other reliable, fully operational stations exist. For full information regarding YLF signals in your area consult Geunics Limited. Extensive field experience has proved that the circles of coverage shown are very conservative and are actually much larger in extent.

1 16 Profile over Lockport Mine Property, Newfoundland privatel case histories on request.



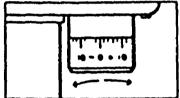
tion Selector tuning units can be plugged tone time. A switch selects er station.



Receiving Coile
Vertical receiving coil circuit in
instrument picks up any vertical
signal present. Horizontal receiving coil circuit, atter eutomatic
90° signal phase shift, leeds signal
into quadrature dial in series with
the receiving coil.



In-Phase Dial shows the tilt-angle of the instrument for minimum signal. This angle is the measure of the vertical in-phase signal expressed in percentage when compared to the horizontal field.



Ouedrature Dial is calibrated in percentage markings and nulls the vertical quadrature signal in the vertical coll circuit.

selecting a suitable transmitter station as a source, the 16 user can survey with the most suitable primary field nuth.

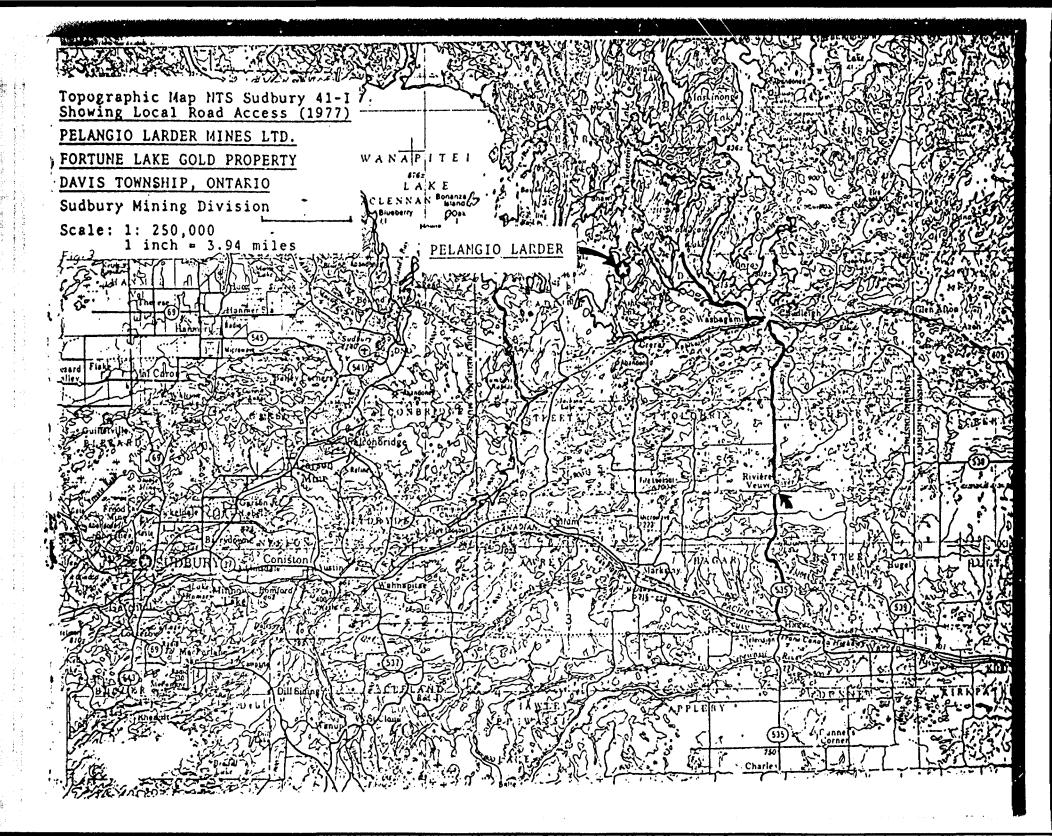
EM 16 has two receiving coils, one for the pick-up of the rontal (primary) field and the other for detecting any malous vertical secondary field. The coils are thus orthoai, and are mounted inside the instrument "handle".

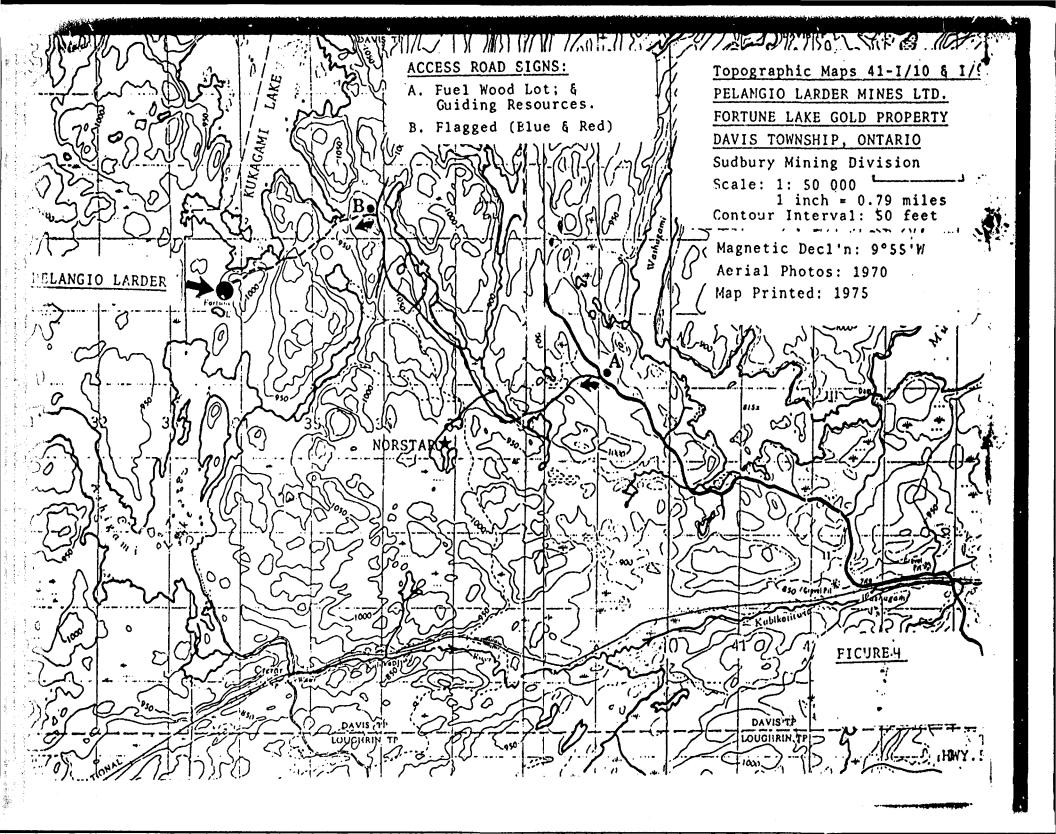
actual measurement is done by first tilting the coil ambly to minimize the signal in the vertical (signal) coil and further sharpening the null by using the reference signal uck out the remaining signal. This is done by a calibrated adrature" dial.

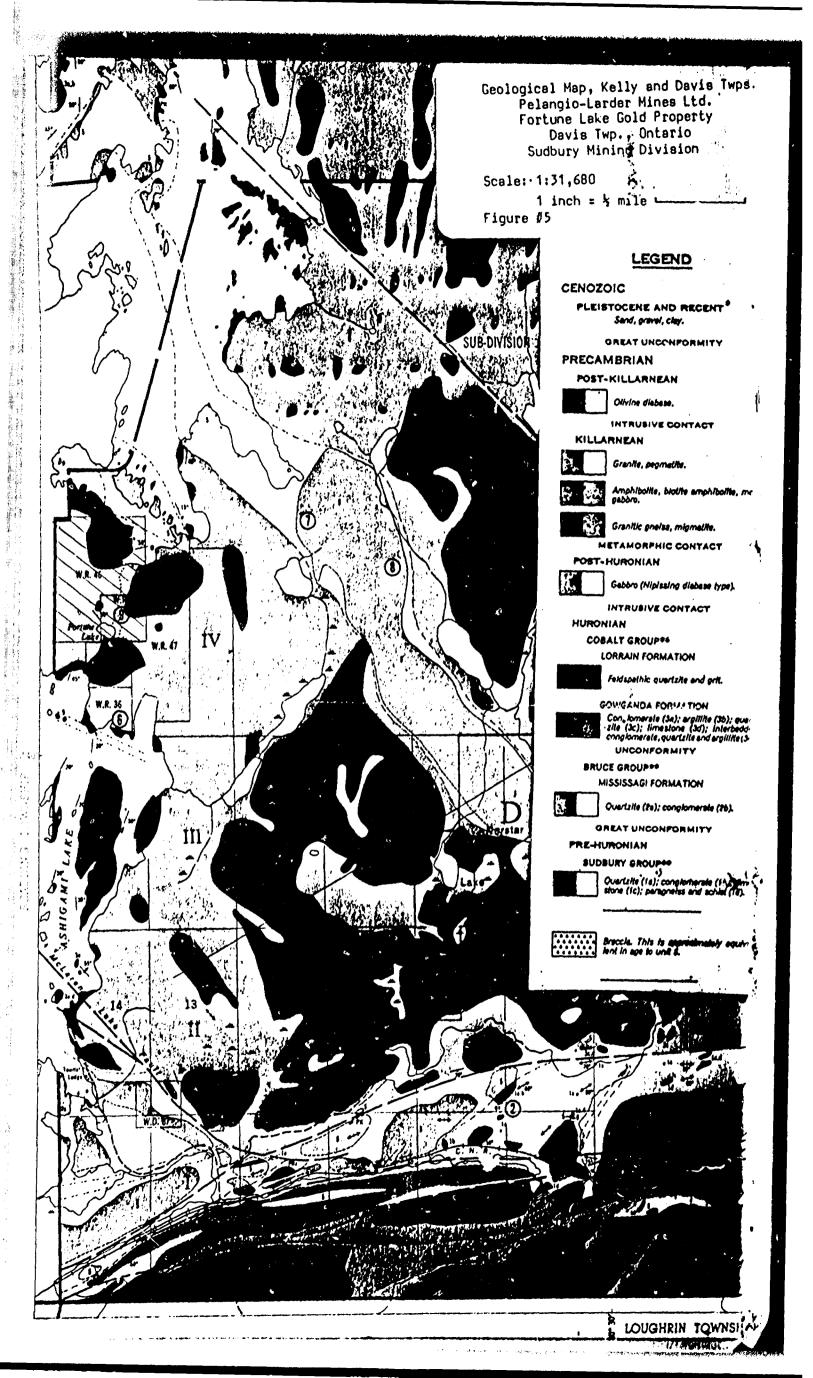
The langent of the tilt angle is the measure of the vertical in-phase component and the quadrature reading is the signal at right angles to the total field. All readings are obtained in per centages and do not depend on the absolute amplitude of the primary signals present.

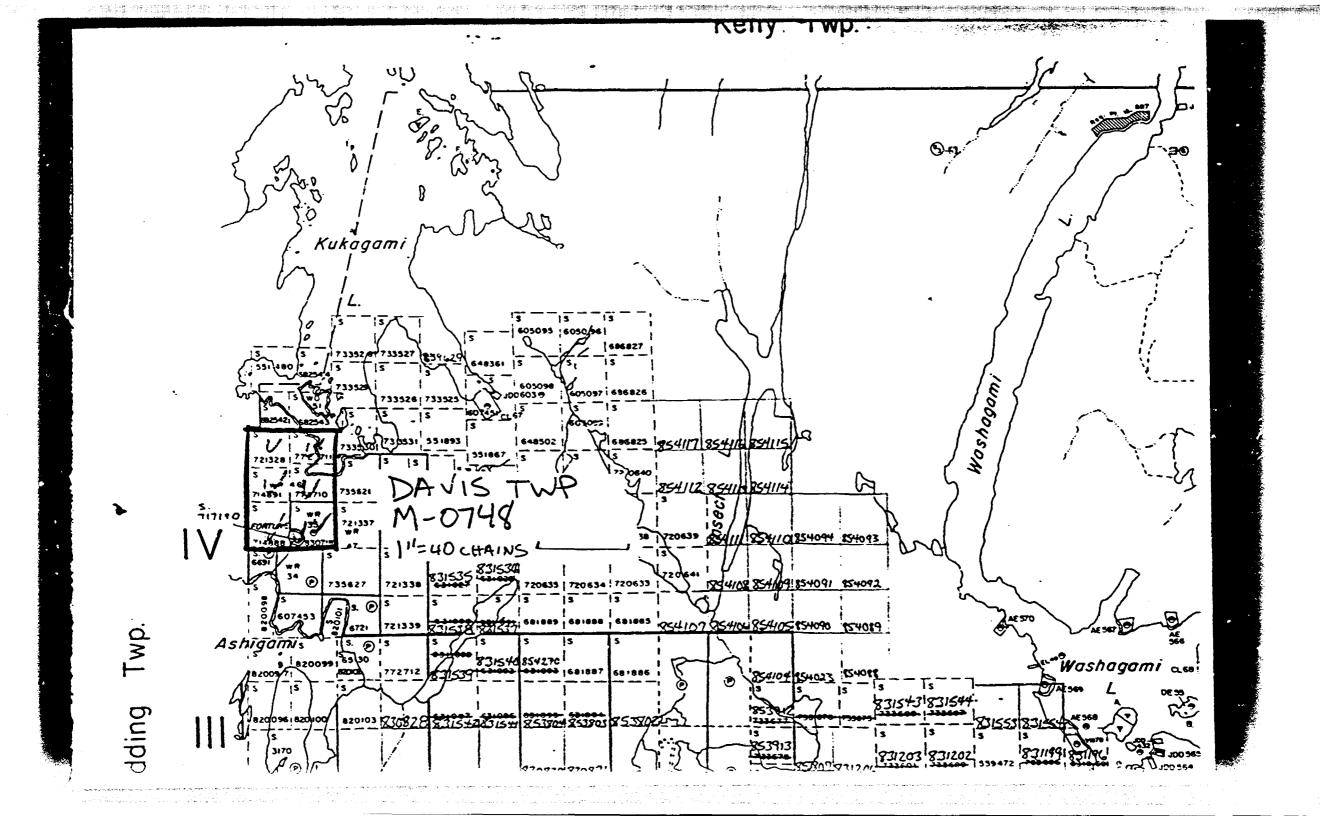
The "null" condition of the measurement is detected by the drop in the audio signal emitted from the patented resonance loudspeaker. A jack is provided for those preferring the use of an earphone instead.

The power for the instrument is from 6 penlight cells. A battery tester is provided.











41110NE0050 0057B1 DAVIS

900

File No 28429

# Mining Lands Section Control Sheet

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		TYPE OF	SURVEY		GEOPHYSICAL	
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					GEOCHEMICAL	•
					EXPENDITURE	}
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Lgd.

Signature of Assessor

Date



Ministry of Northern Affairs and Mines

Technical Assessment **Work Credits** 

		File
		2.8429
Date	Mining Re	corder's Report of
1085 10 03	Work No.	05-02



ario		
	,	

Recorded Holder			
PELANGIO-	<u>-LARDER MINES/PREMIER E</u>	XPLORATIONS/BRIAN ASBURY	
Township or Area	meurb		
DAVIS TO	MUSHIP		
Type of survey and number of Assessment days credit p	mber of	Mining Claims Assessed	
Geophysical	DEL CIRILLI		
Electromagnetic	days	S 830718 721328	
Magnetometer	days	714891 714888	
Radiometric		772710 - 11 717190	
Induced polarization			
Other			
Section 77 (19) See "Mining Claim	s Assessed" column		
Geological			
Geochemical	days		
Man days	Airborne		
Special provision 🔀	Ground 🔀		
Credits have been reduced because coverage of claims.	ouse of partial		
Credits have been reduced bed to work dates and figures of ap			
; acial credits under section 77 (1	6) for the following mining claim	•	
		•	
credits have been allowed for t			
not sufficiently covered by the	survey []] insufficien	t technical data filed	

Fire Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not acceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

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85-82 Please type or print.

If number of mining claims reverted exceeds space on this form, attach a list.

Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Report of Work Natural (Geophysical, Geological, Geochemical and Expenditures) The Mining Act Do not use shaded areas below. ownship or Area ELECTRO-MAGNETIC SURVEY DAVIS TOWNSHIP  $\{3\}$ ंके केन Holder(e) Prospector's Licence ELANGIO-LARDER MINES & PREMIER EXPLORATIONS & BRIAN ASBURY (1)1971 (2)T1762 (3)A42364 <del>33 Premier Ave. W.</del> 20 Rothmere Dr. (irkland Lake, Ont. Kirkland Lake, P2N 1W9 Survey Company Total Miles of line Cut B 85 | 19 08 Mo. | Yr. | Day | Mo. 85 INGAMAR EXPLORARIONS LIMITED 7.5 . Day | Mo. Name and Address of Author (of Geo-Technical report)
Henry Hutteri, South Porcupine, Ont. PON 1HO redits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Days per Claim Mining Claim Mining Claim Expend. Days Cr. Expend. Days Cr. Geophysical Profix Number For first survey: 0 830718 · Electromagnetic 40 Enter 40 days. (This includes line cutting) Magnetometer 2) 721328 - Radiometric For each additional survey: 2) 714891 using the same grid: . Other 714888 Enter 20 days (for each) Geological (2) 772711 Geochemicat 772710 Man Days Days per Claim Geophysical 32 717190 Complete reverse side - Electromagnetic and enter total(s) here - Magnetometer - Radiometric · Other Geological Airborne Credits Claim Note: Special provisions Electromagnetic credits do not apply Magnetometer to Airborne Surveys. Radiometric expenditures (excludes power stripping) Type of Work Performed SUDBURY R.E.C.E.L.Y. Performed on Claim(s) SEP 7119B5 w P. M Calculation of Expenditure Days Credits 7,8,0,10,11,12,1,2 3141419 Total Days Credits Total Expenditures 15 \$ Total number of minir claims covered by this report of work. of mining Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected in columns at right. Fecora a MA August 27/85 ertification Verifying Report of Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work

or witnessed same during and/or after its completion and the annexed report is true

ivame and Postal Address of Person Certifying

MAURICE\_HIBBARD.

362 (81/9)

CEDAR HILL, CONNAUGHT, ONT. PON 1AO

Date Certified August 27, 1985

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#### INGAMAR EXPLORATIONS LIMITED

CEDAR HILL CONNAUGHT, ONTARIO PON 1A0
TEL. (705) 433-3551 or (705) 284-3100
TELEX 087-81502

September 5, 1985

RECEIVED

SEP 1 0 1985

Mr. R. Pichette Land Management Branch Ministry of Natural Resources Whitney Block, Room 6643 Queen's Park TORONTO, Ontario M7A 1W3

MINING LANDS SECTION

SUBJECT

Claim No. S-717190, Davis Township

Dear Sir:

The above mentioned claim covering fortune Lake is approximately only four acres in area.

Seven readings were taken on this claim and we would appreciate if you would consider this sufficient for full work credit.

Thank you.

Sincerely, INGAMAR EXPLORATIONS LIMITED

Henry P. Hutteri, H.B.Sc.

Henry Hutter

HPH/ab

RECEIVED

SEP 1 0 1985

MINING LANDS SECTION



#### INGAMAR EXPLORATIONS LIMITED

CEDAR HILL CONNAUGHT, ONTARIO PON 1AO

TEL\_[705) 433-3551 or (705) 264-3100

ILLETELPY OF PROPER

LAND

MANAGEMENT BRANCH

SEP 1 0 \*85

PREPARE REPLY
COMMENTS PLEASE

S. E. YUNDT
J. R. MORTON
J. C. SMITH
W. P. BROOK

M. J. HOGAN

D. W. SCOTT S. KEEN

Return To: R.6643

RECEIVED

SEP 1 0 1985

MINING LANDS SECTION

RECEIVED

SEP 1 0 1985

FOLICY AND PLANNING SECRETARIAT

9-25

September 5, 1985

Ministry of Natural Resources Whiney Block, Room 6450 Queen's Park TORONTO, Ontario M7A 1W3

SUBJECT:

ELECTROMAGNETIC VLF SURVEY ON FORTUNE LAKE

GOLD PROPERTY, DAVIS TWP. FOR

PELANGIO-LARDER MINES LIMITED, 830718 et al

Dear Sir:

Enclosed herewith are two copies of the above report by H.P. Hutteri, H.B.Sc. Also enclosed are copies of the work report.

Sincerely,
INGAMAR EXPLORATIONS LIMITED

RECEIVED

CEP 1 # 1985

MINING LANDS SECTION

Irma Hibbard, Vice-president

Encl. IH/ab



實方以不幸

Oct 18/85

1985 10 03

Your File: 85-82 Our File: 2.8429

Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt Director

Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

RP. LDK/mc

Encls.

cc: Pelangio-Larder Mines Premier Explorations 33 Premier Avenue West Kirkland Lake, Ontario P2N 1W9

cc: Henry Hutteri South Porcupine, Ontario PON 1HO

Hr. G.H. FergusonHining & Lands CommissionerToronto, Ontario

Brian Asbury 20 Rothmere Drive Toronto, Ontario M4N 1V4

Maurice Hibbard Cedar Hill Connaught. Ontario PON 1AO



Notice of Intent for Technical Reports

1985 10 03

2.8429/85-82

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1985 10 31

Your File: 85-82 Our File: 2.8429

Hining Recorder Hinistry of Northern Affairs and Hines 199 Larch Street Sudbury, Ontario P3E 5P9

Dear Sir:

RE: Notice of Intent dated October 3, 1985 Geophysical (Electromagnetic) Survey on Hining Claims S 830718, et al, in Davis Township

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

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

Yours sincerely,

S.E. Yundt Director Land Hanagement Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario H7A 113 Phone: (416)965-4868

DK/mc .

cc: Pelangio-Larder Hines Kirkland Lake, Ontario

> Henry Hutteri South Porcupine, Ontario

IIr. G.H. Ferguson
Hining & Lands Commissioner
Toronto, Ontario

Brian Asbury Toronto, Ontario

Haurice Hibbard Connaught, Ontario

Resident Geologist Sudbury, Ontario

Encl.

# SEE ACCOMPANYING MAP(S) IDENTIFIED AS

DAVIS-0057-B1#1

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)

