

32005NW0082 2.8719 ELLIOTT

010

## A REPORT ON VLF ELECTROMAGNETIC SURVEYING

o n

## CLAIM L 664057, ELLIOTT TWP.

LARDER LAKE MINING DIVISION, ONTARIO

# RECEIVED

DEC 1 0 1985 MINING LANDS SECTION

,

Markham, Ontarlo December 12, 1985

L.G. Hobbs, P.Eng

Juan 2.4358

#### GENERAL

During the fall of 1985 a VLF Electromagnetic survey was done over claim L 664057 located in the northwest quadrant of Elliott township in the Larder Lake mining division of Ontario. This work is part of a survey covering a group of claims held by Union Mining Corp. and is submitted in part at this time due to assessment work requirements of the Ontario Ministry of Natural Resources.

#### LOCATION, TOPOGRAPHY AND ACCESS

Claim L 664057 lies in the northwest part of Elliott Twp. about 1/2 mile west of the north end of Ghost Lake. It is overlain mainly by sand and silt deposits forming a gently rolling topography covered by jackpine, birch, spruce and relatively minor secondary growth.

Access is by float plane onto Ghost Lake or by truck via a series of secondary sand roads through Garrison and Thackeray townships leading off highway 101 east of the town of Matheson. These roads lead to within 1000 ft. of claim L 664057.

#### GRID

A grid was cut to roughly coincide with an older grid cut for ivan C. Stairs in 1962. The baseline was cut at an azimuth of 70 degrees with ilnes off it at 400 ft. intervals. A total of 1100 ft. of baseline and 4300 ft. of crosslines were cut.

#### INSTRUMENT AND SURVEY

A Geonics EM16 VLF (Very Low Frequency) receiver was used to read the electromagnetic field transmitted from the marine navigational transmitter at Cutler Me. Readings of in-phase and quadrature dip angles were recorded.

The instrument was read at 100 ft. intervals along the grid. A total of 47 stations were read, plotted and profiled.

#### RESULTS AND INTERPRETATION

The results are plotted at 1 inch equals 200 ft. and profiled at an amplitude scale of 1 inch equals 20 degrees on the map which accompanies this report. No outcrop is known to exist on the claim.

The following observations may be made.

- 1. No true in-phase crossovers were detected by the survey.
- 2. Quadrature readings increase in amplitude to the south suggesting deeper conductive overburden in this direction.

- 3. Anomalous readings were detected on line 64W at 1+50N and on line 60W at 0+50N with the strongest response occurring on line 60W. Both in-phase and quadrature readings are affected but only the quadrature readings actually cross over. The pattern suggests a ridge of subcrop entering the survey from the east rather than a sulphide conductor. This feature is directly on strike with a magnetic ridge which crosses line 68W at 3N previously interpreted as possibly being caused by iron formation.
- 4. A reversal of the in-phase patterns at the south edge of the survey is believed to be caused by topography, a relatively steep down hill slope to the south being observable at this location.

Respectfully submitted,

L.G. Hobbs, P.Eng.

## CERTIFICATE

I, L.G. Hobbs, do hereby certify:

That I graduated from the University of Toronto in 1958 with the degree of B.A.Sc. in engineering geology.

That I have practiced my profession as a geologist since graduation.

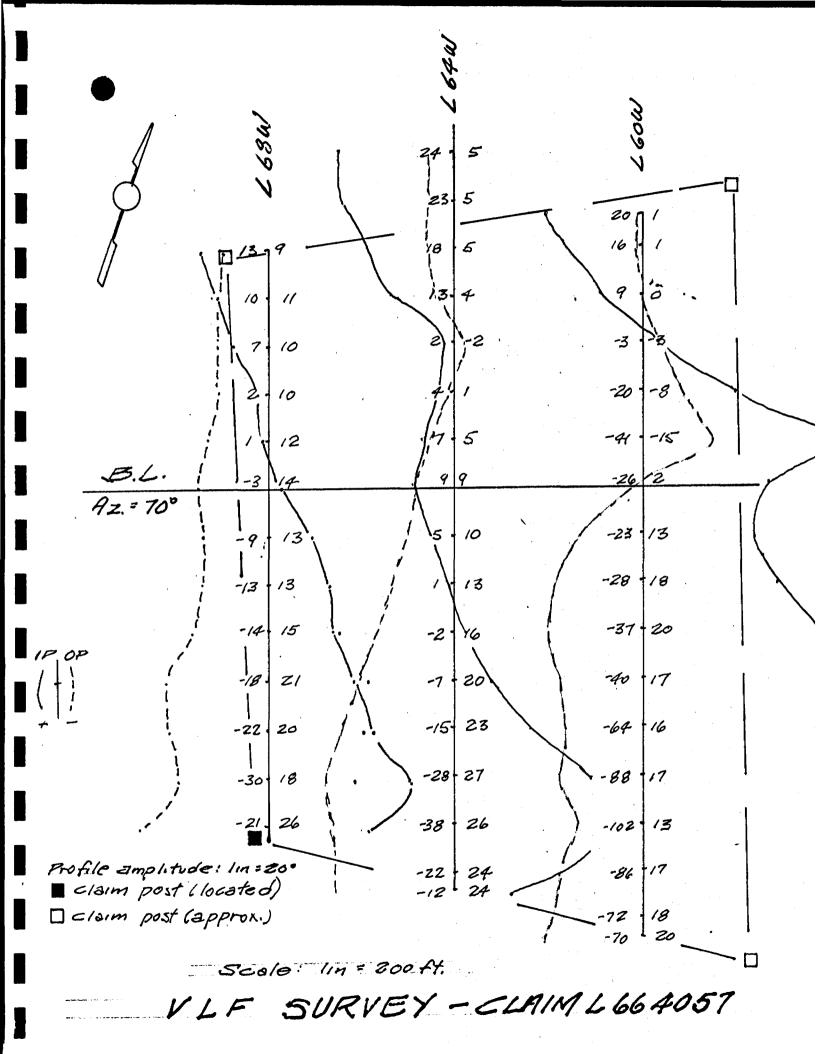
That I maintain an office at Suite 4, 101 Amber St., Markham, Ontario.

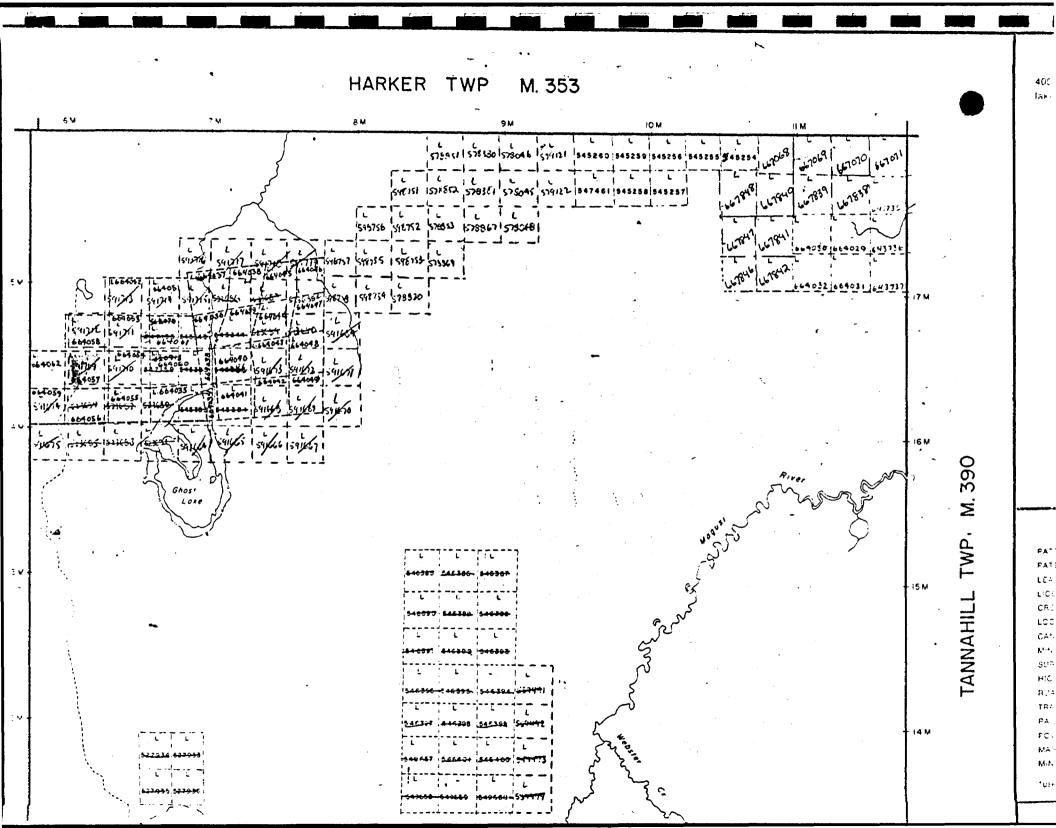
Association of Professional That I of the am member 8 Ontarlo Engineers the Prospectors Developers of and and Association.

That the foregoing report is based on the author's personal supervision of the survey described.

L.O.Hobbs, P.Eng.

Markham, Ont. Dec. 12, 1985







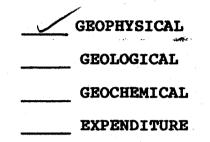
<u>File No 28719</u>

900

Mining Lands Section

## Control Sheet

TYPE OF SURVEY



MINING LANDS COMMENTS:

.

J. Hurst

Signature of Assessor

. .

1/86

Date

			0	•			Dec.	tun	
Natural	ort of Work		1 8 M	v In	structions: –		or print. 10 of mining clai	ms traversed	
Resources {Geo	ophysical, Geological, chemical and Expendi	turocì				exceeds spa	ce on this form credits calcul	, attach a list.	
Ontario Geo		uies)	U		NOte:	"Expenditu	res" section ma xpend. Days C	y be entered	
**			The Mining	Act	-		shaded areas bel		
Type of Survey(s)					Township			7	
Claim Holder(s)	ECTROMAG	NET	10	· · · · · · · · · · · · · · · · · · ·	200	Prospector	Licence No.	····	
Claim Holder(s) Claim Holder(s) Survey Company Name and Address of Author (c	MINING CO	R.P.				1 7	356 Total Miles of Ilm		
Survey Company			10 101	Survey Dates (I	inecutting to	office)			
Name and Address of Author (c	Geo-Technical report	ATION	EKVR	ET Day   Mo.	Yr. Day	Mo.   Yr.	2 / Min	<u>e.</u>	
L.G. Hobas F.	Eng. JUITE	¢, 11	n Ainla	or St. Ms	which him	: Out	C3R	BEQ	
Special Provisions Credits R	equested		Mining Cl	aims Traversed (	List in num				
Instructions	Geophysical	Days per Claim	Prefix	ining Claim Number	Expend. Days Cr.	Mi Prefix	ning Claim Number	Expend. Days Cr.	
For first survey:	- Electromagnetic	20	4	664051					
Enter 40 days, (This includes line cutting)	- Magnetometer	~~	S.S.C.	00405/	+				
	- Radiometric		Sec. Ale						
For each additional survey: using the same grid:					<u> </u>				
Enter 20 days (for each)	- Other				<b>  </b>				
	Geological					1. Sector			
	Geochemical				•				
Man Days	T								
Instructions	Geophysical	Days per Ciaim			11				
Complete reverse side and enter total(s) here	- Electromagnetic		ASA CAL						
	- Magnetometer				<b></b>				
	- Radiometric								
				······································		12.5			
	- Other								
	Geological					H E A			
	Geochemical			LARD	NING DIV				
Airborne Credits			199 A	DEC		\$    <b> </b>	*****		
Note: Special provisions		Days per Claim			+ 0 1 105				
credits do not apply to Airborne Surveys.	Electromagnetic			00					
	Magnetometer			7 18 19110	11121121	3 41510			
	Radiometric								
L Expenditures (excludes pov	ver stripping)	1		1		1.4.4.65			
Type of Work Performed				R	CEI				
						<b>FQ</b>			
Performed on Claim(s)			1995 S.	N(	· - 8 10				
	**************************************					985			
Colorian of Europeilaure Da	- Ore dite			MINING	ANDS S				
Calculation of Expenditure Day Total Expenditures		Total s Credits							
\$	] + [15] = [	<b></b>							
						Total nur	nber of mining		
Instructions Total Days Credits may be a			. 	For Office Use	Only		vered by this	1	
choice. Enter number of days credits per claim selected in columns at right.			Total Day	s Cr. Date Recorded	3	Mining Re			
Report Completed			Hecorded	Recorded 0CT 2 1 1985					
Date of Report Recorded Heider of Agent (Signature)			1 20	ADDIOVE		Redent	tarjon Director		
Certification 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.									
Name and Postal Address of Person Certifying									
- n. 1. 1049	C, AULTE	6/10/	17.001.44	Date Certified		Certified	Signature	<u>-y -</u>	
1362 (81/2)				Octiz	185	/	1/18MB		



