

GEOPHYSICAL SURVEY REPORT
ON THE

PERRON PROPERTY

BARRY HOLLINGER GRID

BOSTON TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

JULY 1, 1984

MARY GREER
GEOPHYSICAL TECHNICIAN

RECEIVED

AUG 2 0 1984

MINING LANDS SECTION

Ç.

TABLE OF CONTENTS

INTRODUCTION	
PROPERTY DESCRIPTION	
LOCATION AND ACCESS	
PREVIOUS WORK	
SURVEY PROCEDURE	
TOPOGRAPHY	
GENERAL GEOLOGY	
ECONOMIC GEOLOGY	
INSTRUMENTATION 6, 7, 8	}
PRESENTATION AND DISCUSSION OF RESULTS 9	
CONCLUSIONS AND RECOMMENDATIONS 10	
BIBLIOGRAPHY	

ILLUSTRATIONS

Claim Location Map - (Figure 1 a) 2 a)

Location Map - (Figure 1 b) 2 b)

Accompanying Plan Maps. In Back Pocket

Scale: 1 inch to 200 feet

Date: July 1984

Barry Hollinger Property
Ground VLF-EM Survey
Drawing No. 0'D.84-1

Barry Hollinger Property

Ground Magnetometer Survey

Drawing No. 0'D.84-2

GEOPHYSICAL SURVEY REPORT

ON THE

PERRON PROPERTY BARRY HOLLINGER GRID

BOSTON TOWNSHIP LARDER LAKE MINING DIVISION DISTRICT OF TIMISKAMING. ONTARIO

INTRODUCTION

The Barry Hollinger claim was recorded by Alexander H. Perron on September 2, 1981.

A geophysical grid was subsequently established in February, 1984, on the Perron Property. During March 1984, two geophysical surveys (electromagnetic and magnetic) were completed over the entire property. The instruments used for this survey was a Geonics EM-16 VLF Unit and a Geometrics G-816 Proton Magnetometer.

This work was conducted by and under the active supervision of Mary Greer with Alexander H. Perron assisting.

All drafting and interpretation was completed by Mary Greer.

The purpose of this report is to briefly describe the results attained in said surveys.

The anomalies detected are shown on the accompanying maps, at

a scale of one inch to 200 feet, that form an integral part of this report.

PROPERTY DESCRIPTION

The Barry Hollinger Property consists of one unpatented mining claim in Boston township attached to three (3) patented mining claims in Pacaud township, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

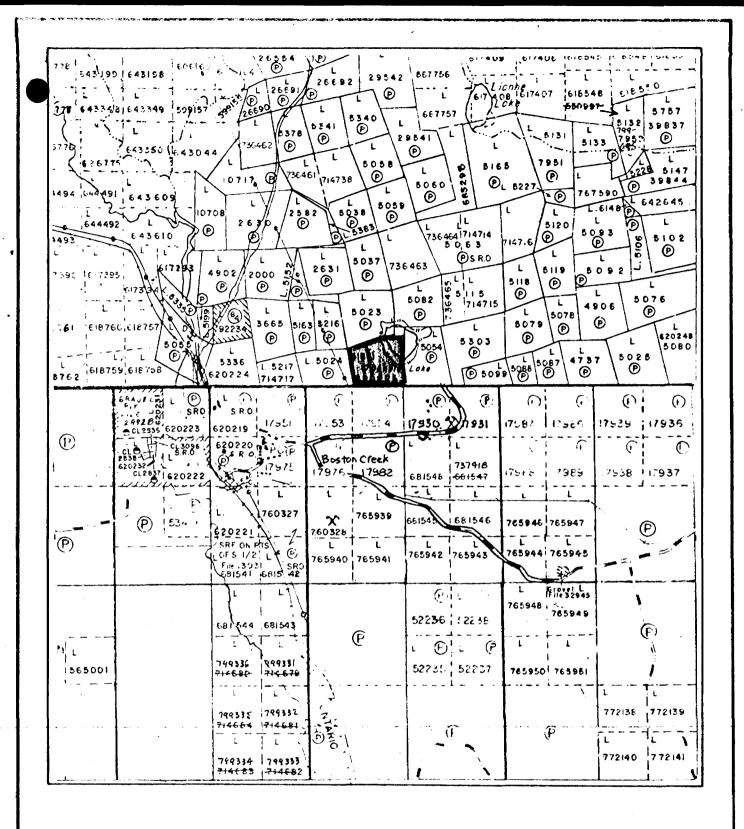
<u>Clai</u>	m No.	Township	No. of Claims
L-620225	(unpatented)	Boston	1
17930	(patented)	Pacaud	1
17931	(patented)	Pacaud	1
17982	(patented)	Pacaud	1
	Tota	l No. of Claims	. 4

Ownership of the aforementioned claims have been attested to by Alexander H. Perron of 103 Government Road East, Kirkland Lake, Ontario, and was not independently ascertained by the writer. (See figure 1a).

LOCATION AND ACCESS

The Barry Hollinger property lies along the Boston - Pacaud township line approximately one and one half miles from the village of Boston Creek, which is twelve (12) miles southeast of the town of Kirkland Lake.

The property is accessible via a secondary road that extends eastward from the village of Boston Creek into the Barry Hollinger Mine site, and may be reached via highway 112 and highway 564. (See Figure 1b).

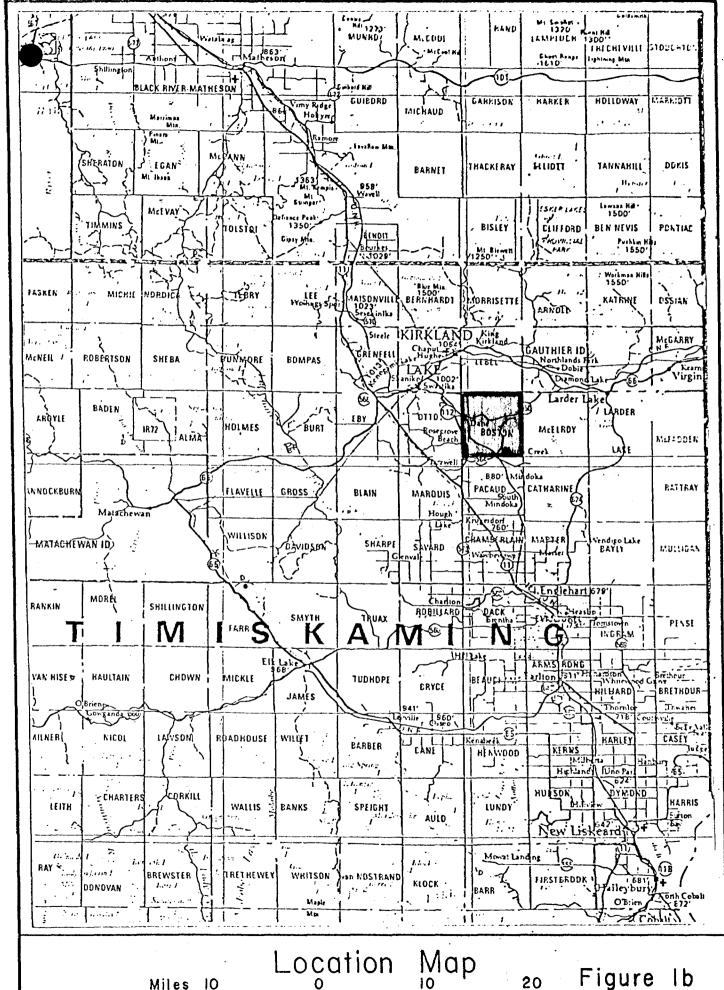


Claim Location Map

Scale: linch to 1/2 mile

(Taken from a July 1984 claim map)

Figure la



Miles 10

PREVIOUS WORK

Scattered old trenching can be found throughout the property, however no records are available.

SURVEY PROCEDURE

A baseline was established north along the western claim line from the Boston - Pacaud township line, for 1,000 feet to the north claim line.

A grid system of picket lines 400 feet apart with stations every 100 feet was established at right angles to the baseline. Readings were taken at 50 foot intervals on all picket lines and the baseline. The primary magnetic base stations were set up at BL 0+00 with secondary base stations established at each picket line - baseline intersection. The time interval between each secondary base check was within one half hour.

TOPOGRAPHY

The terrain is flat sloping ground with a small lake (O'Donald Lake) found in the northeast corner of claim L-620225.

The area is covered by birch and poplar with spruce, balsam fir and larch occurring closer to the lake. Swampy bog occurs around the edge of the lake.

GENERAL GEOLOGY

According to the O.D.M. Map No. 1957-4 the underlying bedrock consists of basic volcanic lava flows of the keewatin age. These rock types are primarily gabbroic lava flows and andesite, basalt and pillow

lava. The flows appear to be trending northwest-southeast and are facing east.

ECONOMIC GEOLOGY

The Perron claim adjoins the Barry Hollinger Gold Mines property to the southeast and directly west of the Bargnesi copper prospect.

The Barry Hollinger was originally known as the Patricia property and acquired in 1918. The mine was in operation until 1936 and 267,741 tons of ore was milled. Over \$1.6 million dollars in gold and \$3,800. in silver was recovered.

The property is underlain by two series of Keewatin volcanics, which lie in faulted contact. The Pacaud fault strikes southeast and separates sheared and altered tuffs and tuffaceous sediments on the southwest from basic lava flows on the northeast.

Underground operations were carried out primarily on the No. 7 vein, although twelve (12) veins were found on the property.

The No. 7 vein strikes N 57° E and dips 70° SE. The presence of gold depends largely on the quartz and is found as irregular lenses in the vein.

The mine workings are primarily in basic lavas and the shaft is in Keewatin diabase. The mine is developed to the 2,250 foot level and a two compartment shaft extends from surface to the 1000 foot level with a three compartment winze from the 1000 foot level to the 2250 foot level.

The Bargnesi property lying directly across from O'Donald Lake consists of a main showing of a quartz-carbonate vein stockwork which occurs in massive, dark green, dioritic lava. The property was worked through 1937 to 1956.

INSTRUMENTATION

i) Electromagnetic Survey:

The VLF-EM method uses as a source, one of the main submarine communications transmitters in the 15 to 25 kHz band found throughout the world. These submarine communication radio waves travel in a single mode parallel to the surface of the earth along the earth-air surface.

Without vertical conductors and travelling over flat ground, the magnetic field component of this radio or surface wave is horizontal and perpendicular to it's direction of travel.

VLF instruments are capable of picking up these structures that change the direction of the waves by measuring the tilt angle of the major axis of the polarization ellipse. This is illustrated by the tilt angle being zero on flat ground, but when a conductor is present the tilt angle will acquire a finile value. The direction of tilt indicates the direction of the conductor. Calculations of such parameters as depth, depth extent, dip and width of the conductor is very minimal.

The VLF easily illustrates the location of the upper limit of dipping structures which can be seen or plotted as VLF profiles as areas of greatest change in tilt angle per unit of distance.

The instrument used for this EM survey was a Geonics VLF-EM16 unit. The sensitivity of this unit is $\frac{1}{2}$ 1% for the in-phase and $\frac{1}{2}$ 1%

for the quadrature. The operating frequency for the EM16 is from 15-25 kHz and the station selection is made by plug-in units.

For the purpose of this EM survey the station used was Annapolis, Maryland, which has a frequency of 21.4 kHz.

All the readings were taken facing east at 50 foot intervals and the topography was noted for future use in the interpretation of the EM results.

ii) Magnetic Survey:

V.

This system uses a backward motion of spinning protons of a hydrogen atom within a fluid of hydrogen and carbon. These spinning magnetic protons are caused to have two opposite poles by applying a magnetic field using a current within a coil of wire. When the current is stopped, the protons precess about the earth's magnetic field and in turn generate a small current in the wire. This frequency of precession is proportional to the earth's total magnetic field.

This instrument is read directly in gammas which is the absolute value of the earth's total field for that station.

The instrument used for this survey was a Geometrics G-816 Proton Magnetometer, this instrument has a sensitivity of one gamma.

The diurnal variation was monitored by closing each loop at any secondary check station, at a gridline-baseline intersection.

Diurnal corrections were applied by linear distribution of any observed variation over the time between base stations. The corrections were calculated by using a time vs. drift graph.

PRESENTATION AND DISCUSSION OF RESULTS

i) Electromagnetic Survey:

The field data is presented on a map at a horizontal scale of one inch to 200 feet, drawing number 0'D-84-1, found in the back pocket of this report.

The VLF-EM data is illustrated as profiled data along the survey lines and is plotted at a vertical scale of 1 inch = $\frac{+}{-}$ 40% with the in-phase above and the quadrature below.

One conductor was found on the claim. Trending north-south down the centre of the claim. The in-phase profile shows a very high response with a low zero quadrature to the north of the property. The positions of the profile are reversed on L 4 + 00 N and L 0 + 00.

ii) Magnetic Survey:

The field data is presented on a map at a horizontal scale of one inch to 200 feet, drawing number 0'D-84-2.

The magnetic data is illustrated as isomagnetic contours (contour interval: 100 gammas) on a map of corrected magnetic values recorded at each station.

A magnetic high was found on the eastern side of the claim occurring on L 10 + 00 N at 12 + 00 E; L 8 + 00 N at 11 + 00 E and on L 4 + 00 N at 10 + 50 E, this magnetic high trend in a north northeast-south southwest direction.

CONCLUSIONS AND RECOMMENDATIONS

The VLF-EM conductor occurs slightly west of the found magnetic high. The magnetic high fades on L 4 + 00 N and L 0 + 00 and may reappear on L 0 + 00 5 + 00 E. This may indicate a fault or interference with the high. Field observations indicate the magnetic high to be a diabasic rock type, either as a diabase dyke or a diabasic lava flow. It is recommended that the area around L 4 + 00 N 10 + 50 E be stripped off to determine the source of the interference of the magnetic high.

Respectfully submitted,

Mary Green

July 1, 1984

Mary Green

Geophysical Technician

BIBLIOGRAPHY

Sixty-sixth Annual Report of the Ontario Department of Mines

Volume LXVI, Part 5, 1957

Geology of Boston Township and part of Pacaud Township by K.D. Lawton

CERTIFICATE

- I, Mary Greer, of Lynden, Ontario, do hereby certify:
- That I am a Geophysical Technician and reside at:
 49 McKelvie Avenue, Kirkland Lake, Ontario.
- That I graduated from Sir Sandford Fleming College at Lindsay, Ontario, in 1978, with a diploma as a Geological Technician.
- That I was employed as a Geophysical Technician by
 H.E. Neal and Associates Limited for 18 months.
- 4. That I have been practising my profession for a period of (5) years and I am qualified to write this report.
- 5. That I supervised and participated in this survey.

/tug (3 /84

Date

Mary Greer

Geophysical Technician

Ministry of Rep	port of Work & Co ophysical, Geological,	nda G	dynis	ln:	structions:		pe or print or of mining class	ms traversed
Gen	ophysical, Geological, ochemical and Expendi	itures	July	- x 62033	/ Note: -	exceeds s	er of mining clair pace on this form, ys credits calcula tures" section mai Expend. Days Cr	attach a list.
Ontario	chemical and Expendi	ituresi		2706	5	"Expendi	tures" section mar Expend. Days Cr	y be entered
			Minin	g Act And I'		Do not us	e shaded areas belo	>w. 12la
Type of Avey(s)					Township	Bus	1 SA	202-4704
GEOPHYSI Claim Holder(s)	CAL]		or's Licence No.	
ALEXANDE	R H. PER	RON	• .	·r.		/	C1902 B	5
Address	. 1. 4	, , <u> </u>	Vh	1- 1 1	<i>l</i>	~ <i>1</i>	1.	
103 GOVE	MENT K	a. C.	- NICE	Date of Survey	(from & 1b)	orto	Total Miles of line	B Cut
Perrons	In C of Geo-Technical report)			01 02 Day Mo.	Pry Day	NS 63	L	·
MARY GREG			luis	Ave .	Wirk	land	Lake	11-4
Credits Requested per Each	Claim in Columns at r	ight	Mining C	laims Traversed (I				,
Special Provisions	Geophysical	Days per Claim	Prefix	lining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic	40	4	620225	1	1	110771001	
Enter 40 days, (This includes line cutting)	- Magnetometer	20		62000				1
	- Radiometric	20			11			-}
For each additional survey: using the same grid:	- Other				-		***************************************	
Enter 20 days (for each)								
	Geological		•] 1			
Man Days	Geochemical	ļ{						
	Geophysical	Days per 'Claim	:					
Complete reverse side and enter total(s) here	- Electromagnetic						' ! !	
	- Magnetometer]		
	- Radiometric				RECE	IVE	D	
	- Other			•				
	Geological				 JUH :	l 7 198	A	
	Geochemical	<u> </u>	[·	k/	ALMIALO AL	toe er	erioni	
Airborne Credits	Geochemical	Days.per		IV:	INING LA	DO 251	UTION	
		Claim				į		1
Note: Special provisions credits do not apply	Electromagnetic							
to Airborne Surveys.	Magnetometer				<u> </u>	Last	LUCIO LA	1
	Radiometric							
Expenditures (excludes pow Type of Work Performed	ver stripping)					目前。	1 3 3 0 W 5 1	
Type of Work Ferrormeo							111 91984	
Performed on Claim(s)			,	· · · · · · · · · · · · · · · · · · ·		7.M 7.18.19 3	1041412(1)2.3.	7 5 6
			,	-	-	1, 10,101	011111111111111111111111111111111111111	315787
		·			1.			
Calculation of Expenditure Day		Total						
Total Expenditures		s Credits	L		L			
\$) ÷ [15] = [claims co	mber of mining overed by this	1
Instructions report of work. Total Days Credits may be apportioned at the claim holder's								
choice. Enter number of days credits per claim selected in columns at right.				For Office Use O Cr. Date Recorded	111 y	Mining R	ecord	
Date Recol Hidi Hojder or Agent (Signature)				JUL	9 1984		/h	1
13. ly 9/84 18°	(¿C)	Date Approved	as riecorded	arang p	Hearon	_		
Certification Verifying Repo	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 Per	rson Certifying	Mcko	IVIT	AVE			e de la constitue de la consti	
MARY GREEN Kirkland L	ake ont			Date Certified	0/611	Certif	by (Signature)	
1362 (81/9)	ake Ont	ari v		1 July	7124		NYW	W
				1			- 1	

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Trung of Comments	GEOPHYSICA	- MAGNETIC AL SURVEY - ELECTROMAGN	FTIC				
Type of Survey(s).	DOCTON TO						
Township or Area	ALEXANDER			MINING CLAIMS			
Claim Holder(s)		ROAD E., KIRKLAND LAKE	ONT	List numer	ically		
	DEDDONCI C		, (111.		620225		
Survey Company_	MADY ODEE	· · · · · · · · · · · · · · · · · · ·		(prefix)	620225 (number)		
Author of Report	AO NOVELVI		ONT				
Address of Author		E AVE., KIRKLAND LAKE,	UNI.				
Covering Dates of	Survey_APRIL	1/84 to MAY 1/84 (linecutting to office)			• • • • • • • • • • • • • • • • • • • •		
Total Miles of Line	CutAPPROX	IMATELY ONE MILE					
,							
SPECIAL PROV	ISIONS	DAY	,				
CREDITS REQU		Geophysical per cla	_				
		-Electromagnetic 40					
ENTER 40 days	•	-Magnetometer20	· .				
line cutting) for survey.	irst	-Radiometric					
ENTER 20 days	for each	_Other					
additional survey		Geological					
same grid.		Geochemical			·		
L							
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)							
MagnetometerElectromagneticRadiometric (enter days per claim)							
12/91 MJ M (1/3/4/							
DATE:	DATE: Author of Report of Agent						

		2		İ			
Res. Geol	Qualif	ications <u>2.4529</u>					
Previous Surveys					••••••		
File No. Typ	e Date	Claim Holder					

		•••••••••••					
		••••••••••••••••••	•••••				
		••••••			1		
		••••••••••••••	•••••	TOTAL CLAIMS	L L		

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS — If more than one survey, special Number of Stations 65	MAG.123 VLF-EM 116
Station interval 100 FEET	Line spacing 400 FEET
Profile scale + 40%	
100 0818180	
Instrument GEOMETRICS G-816 PROTON M	MAGNETOMETER
Accuracy — Scale constant1 GAMMA	
Diurnal correction method <u>CLOSED LOOPS</u>	
Accuracy — Scale constant 1 GAMMA Diurnal correction method CLOSED LOOPS Base Station check-in interval (hours) APPROXIMA	ATELY EVERY 30 MINUTES
Base Station location and value BL 0+00	58790 GAMMAS
Instrument GEONICS EM-16	
Coil configurationVERTICAL_AND_HORIZONTAL	
Coil separationINFINITY	
Accuracy	
)	☐ Shoot back ☐ In line ☐ Parallel line
Frequency ANNAPOLIS, MARYLAND	
Parameters measured IN-PHASE AND QUADRATU	
rarameters measured. The time and gondant	JKE
Instrument	
Scale constant	
Corrections made	
Elevation accuracy	
Instrument	
Method Time Domain	☐ Frequency Domain
Parameters – On time	
— Off time	Range
— Delay time	
— Delay time — Integration time Power	
Power	
·	
•	
Type of electrode	

INDUCED POLARIZATION

SELF POTENTIAL	
	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type	e, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING	ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding resu	lts)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	cify for each type of survey)
Accuracy	sty for each type of survey)
(spec	cify for each type of survey)
Aircraft used	
Sensor altitude	
Aircraft altituda	
	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken								
Total Number of Samples	ANALYTICA	L METHOD	<u>s</u>					
Type of Sample(Nature of Material)	Values expressed in:	per cent						
Average Sample Weight		p. p. m.						
Method of Collection	Annual Property (Annual Property Control of the Con	p. p. b.						
	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)					
Soil Horizon Sampled	Others							
Horizon Development	Field Analysis (tests)					
Sample Depth	Extraction Method	***************************************						
Terrain	Analytical Method							
	Reagents Used							
Drainage Development	Field Laboratory Analysis							
Estimated Range of Overburden Thickness	No. (tests)					
	Extraction Method							
	Analytical Method							
	Reagents Used							
SAMPLE PREPARATION	0							
(Includes drying, screening, crushing, ashing)	Commercial Laboratory (_		,					
Mesh size of fraction used for analysis								
	Extraction Method							
	Analytical Method							
<u> </u>	Reagents Used							
General	General ————							
	• • • • • • • • • • • • • • • • • • • •							
								
								

Mining Lands Section

File No 2.7065

Control Sheet

ТУ	PE OF SURVEY	GEOPHYSICAL
		GEOLOGICAL
		GEOCHEMICAL
		EXPENDITURE
MINING LANDS CO	MMENTS:	
		Ω
		Dong
		V
		Signature of Assessor
		, ,
		27/08/84
		Date

1984 08 24

Your File: 314 Our File: 2.7065

Mr. George J. Koleszar Mining Recorder 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 & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claim L 620225 in the Township of Boston.

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1N3 Phone: (416)965-6918

A. Barr:sc

cc: Alexander H. Perron 103 Government Road East Kirkland Lake, Ontario P2N 1A9

cc: Mary Greer
49 McKelvie Ave
Kirkland Lake, Ontario
P2N 2K6

49 McKelvie Avenue, Kirkland Lake, Ontario P2N 2K6

August 13, 1984

Mr. Fred Matthews, Lands Administration Branch, Mining Lands Section, Ministry of Natural Resources, Room 6450, Whitney Block, Queen's Park, Toronto, Ontario M7A IW3

Dear Sir:

RE: Geophysical Survey Report for Boston Township Larder Lake Mining Division

Enclosed herewith please find a duplicate copy of the following:

- Report dated July 1, 1984, by Mary Greer entitled:

Geophysical Survey Report on the Perron Property Barry Hollinger Grid Boston Township Larder Lake Mining Division District of Timiskaming, Ontario

I trust this is the information required to correspond with the Report of Work filed concerning the above noted township.

Yours truly,

Mary Greer

Geophysical Technician

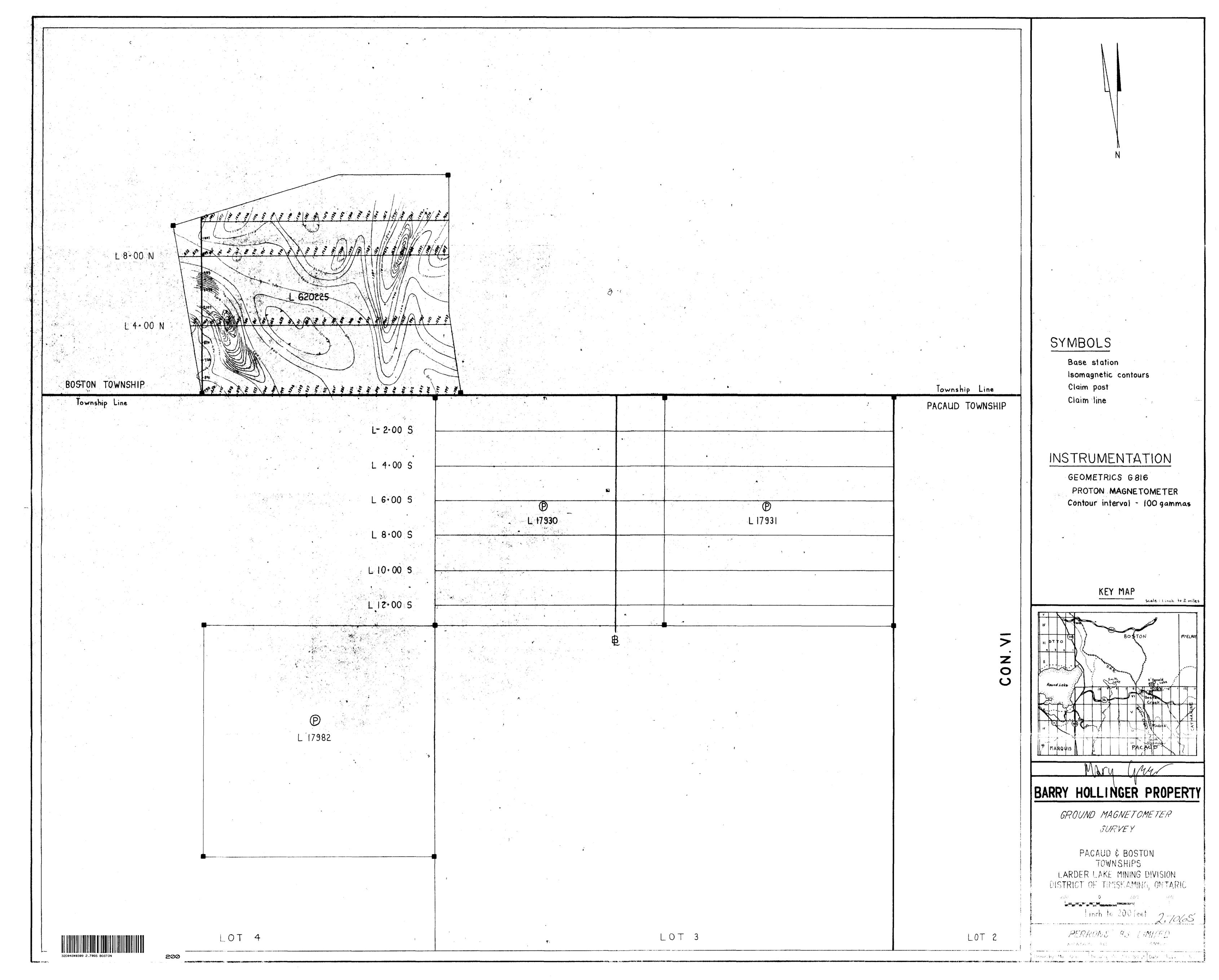
MG/p

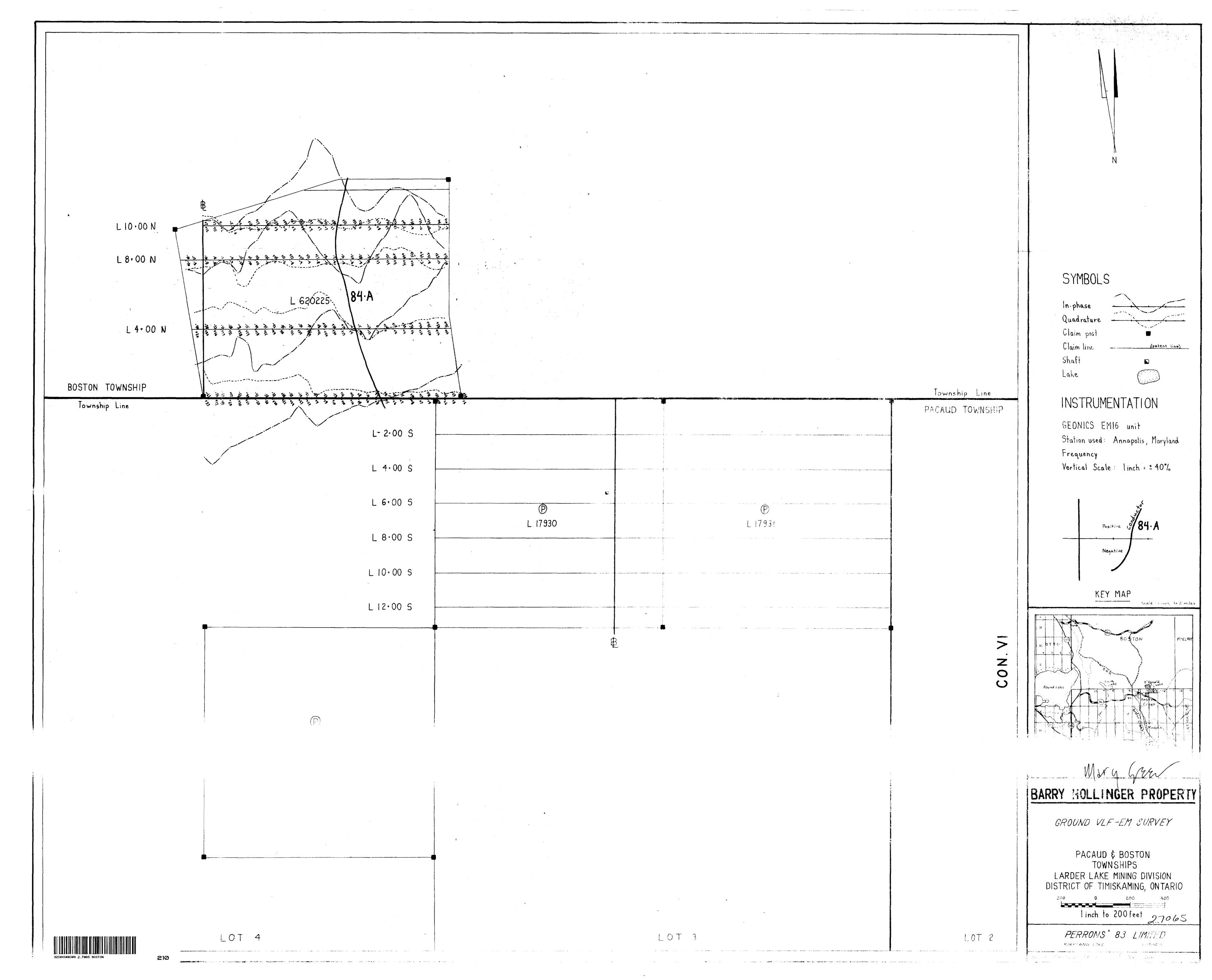
Encls.

RECEIVED

AUG 2 0 1984

MINING LANDS SECTION





	port of Work Albands ophysical, Geological, chemical and Expend		My) Win	L 6202	Note:	Please type or print If number of mining claims travelure 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 Do not use shaded areas below.
Type of rvey(s)				, , , , , , , , , , , , , , , , , , ,	Township	D OF ATES
GEOPHYSI Claim Holder(s)	CAL				.]	Boston Prospector's Licence No.
ALEXANDE	R H. PER	RON				K19026
Address 103 GOVE/ Survey Company	anest K	d E	Kirk	land be	ke	Ontaria
Percons				Date of Survey 0 / 07 Day Mo.	(from & to)	Ontarion Total Miles of line Cut Mo. Yr. 1.1
MARY GREG	4.5	McK	elvie	Ave	Kick	bland Lake Out
Credits Requested per Each		ight Days per	, <u>, </u>	laims Traversed (List in num	nerical sequence) Mining Claim
For first survey:	Geophysical	Claim	Pretix	Number	Days Cr.	Prefix Numt
Enter 40 days. (This	- Electromagnetic	40	6	620225		2
includes line cutting)	- Magnetometer	20			1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
For each additional survey: using the same grid:	- Radiometric			· · · · · · · · · · · · · · · · · · ·	.	ν
Enter 20 days (for each)	- Other					8
	Geological			مشم	3	8
	Geochemical					9
Man Days	Geophysical	Days per 'Claim				
Complete reverse side and enter total(s) here	- Electromagnetic					
	- Magnetometer					
	- Radiometric				REC	BIVED =
	- Other					10 100 M
	Geological				 	17 1984——
	Geochemical		-		WINING L	AILDS SECTION &
Airborne Credits	<u> </u>	Days per Claim				0
Note: Special provisions	Electromagnetic	•				
credits do not apply to Airborne Surveys.	Magnetomater				1	
·	Radiometric					
Expenditures (excludes pow	er stripping)				11	
Type of Work Performed					1	11 11 - 9 1984
Performed on Claim(s)					1	7 18 19110(11.12) 11 2 3 14 5 . 6
						1 12 12 12 12 12 12 12 12 12 12 12 12 12
		,			1	
Calculation of Expenditure Day Total Expenditures	•	Total Credits				
Total Expenditures Days Credits + 15 =			L		<u></u>	Total number of mining
						claims covered by this report of work.
Instructions Total Days Credits may be ap choice. Enter number of days	· -			For Office Use (Only	
in columns at right.			Total Day Recorded	Cr. Date Recorded		Mining Record (1)
Det 1 9 /84 Re	confed Holder or Agent (5	- /	(LC)	Date Approved	Las Recorded	BranchOttent
Certification Verifying Report of Work						
I hereby certify that I have a or witnessed same during and Name and Postal Address of Per	d/or after its completion	and the ann	nexed report is	true.		exed hereto, naving performed the work
MARY GREEK	49 1	ycke	IVIT /	AVE Date Gertiffed		Certif Aby (Signature)



837 (5/79)

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

		- MAGNET				
Type of barvey(s)		SURVEY - ELECTRO	OMAGNETIC	۔		
10p 01 12 04	OSTON TOWNS	-	MINING CLAIM	S TRAVERSED		
Chaim Holder(s)	LEXANDER H.			.	List num	
103 GO	VERNMENT RO	AD E., KIRKLAND	LAKE, ONT.	_		
Survey Company P	ERRONS! 83	LIMITED		-	L	620225
Author of ReportM	ARY GREER			- [(prefix)	(number)
Address of Author4	9 MCKELVIE	AVE., KIRKLAND L	AKE, ONT.	. "	•	
Covering Dates of Surve		34 to MAY 1/84		_		
Total Miles of Line Cut.	•	inecutting to office) ATELY ONE MILE				
Total willes of Line Cut		···		٠		
SPECIAL PROVISION CREDITS REQUEST	<u>ED</u>	Geophysical	DAYS per claim			
ENTER 40 days (including line cutting) for first survey.	ıdes	Electromagnetic Magnetometer Radiometric	20			
ENTER 20 days for ea	ach	_Other		-		
additional survey using Geological					•••••	
same grid.	·-··	Geochemical]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
AIRBORNE CREDITS	(Special provision	credits do not apply to airl	oorne surveys)	Ì		
MagnetometerElectromagneticRadiometric						
DATE: Aug 13/8	DATE: Aug 13 0 SIGNATURE: Author of Report or Agent					
				ļ		
Res. Geol.	Qualificat	ions 2.45	29	-		
Previous Surveys	D 4	O1 ' 11 11		- 1		••••••••
File No. Type	Date	Claim Holde	<u>r </u>	٦		
		***************************************	•••••••			
		•••••	••••••			
·			******			
		***************************************	***************************************	 		
		,	•••••		_	
		•====	••••••		TOTAL CLAIMS_	11

SELF POTENTIAL	
· · · · · · · · · · · · · · · · · · ·	Range
Survey Method	
RADIOMETRIC	
Instrument	
Energy windows (levels)	
, ,	Background Count
0	
Overburden	
	(type, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELI	L LOGGING ETC.)
· -	
Accuracy	
•	
Additional information (for unders	tanding results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
Accuracy	(specify for each type of survey)
Accuracy	(specify for each type of survey)
-Navigation and flight path recovery	method
Aircraft altitude	Line Spacing
Miles flown over total area	_Over claims only

Mining Lands Section

Control Sheet

TYPE OF SURVEY	GEOPHYSICAL
	GEOLOGICAL
	GEOCHEMICAL
	EXPENDITURE
	EAT ENDITORE
MINING LANDS COMMENTS:	
	, , , , , , , , , , , , , , , , , , ,
	Dong
	- roung
√	Signature of Assessor
	27/08/84

Date

1984 08 24

Your File: 314 Our File: 2.7065

Mr. George J. Koleszar Mining Recorder 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 & Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claim L 620225 in the Township of Boston.

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-6918

A. Barr:sc

cc: Alexander H. Perron 103 Government Road East Kirkland Lake, Ontario P2N 1A9

cc: Mary Greer
49 McKelvie Ave
Kirkland Lake, Ontario
P2N 2K6

49 McKelvie Avenue, Kirkland Lake, Ontario P2N 2K6

August 13, 1984

Mr. Fred Matthews, Lands Administration Branch, Mining Lands Section, Ministry of Natural Resources, Room 6450, Whitney Block, Queen's Park, Toronto, Ontario M7A IW3

Dear Sir:

RE: Geophysical Survey Report for

Boston Township

Larder Lake Mining Division

Enclosed herewith please find a duplicate copy of the following:

- Report dated July 1, 1984, by Mary Greer entitled:

Geophysical Survey Report on the Perron Property Barry Hollinger Grid Boston Township Larder Lake Mining Division District of Timiskaming, Ontario

I trust this is the information required to correspond with the Report of Work filed concerning the above noted township.

Yours truly,

Mary Greer Geophysical Technician

MG/p

Encls.

RECEIVED

AUG 2 0 1984

MINING LANDS SECTION

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken			
Total Number of Samples	—— <u>ANALYTICAL METHODS</u>		
Type of Sample(Nature of Material)			
(Nature of Material) Average Sample Weight	p. p. m.		
Method of Collection	<u> </u>		
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)		
Soil Horizon Sampled	Others		
Horizon Development			
Sample Depth	Extraction Method		
Terrain			
	Reagents Used		
Drainage Development	Ü		
Estimated Range of Overburden Thickness			
	4 1 1 1 1 1 1		
	Reagents Used		
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests		
Mesh size of fraction used for analysis	Name of Laboratory		
	Extraction Method		
	Analytical Method		
	Reagents Used		
General	General —		
			
			
			

GEOPHYSICAL TECHNICAL DATA

Number	r of Stations	65	Number of Readings	MAG.123 VLF-EM 116
Station	interval	100 FEET	Line spacing	400 FEET
Profile	scale + 40%		Date speeding	
	r interval 100 G			
Comou	i iiici vai	<u></u>		
Instr	ument GEOME	TRICS G-816 PROTON M	AGNETOMETER	
Accu	ıracy – Scale consta	ant 1 GAMMA		
Diur		od CLOSED LOOPS		
Accu Diuri Base	Station check-in in	terval (hours) APPROXIMA	TELY EVERY 30 MINUTES	
		d value BL 0+00	58790 GAMMAS	
		<u> </u>		
		00 54 16		
SI				
- 1	O			
2]	•	X Fixed transmitter		
Meth _	ine			
- []	uencyANNAP	(specify V.L.F. station)	_kHz
[¶] Parar	meters measured	IN-PHASE AND QUADRATU	RE	
Instr	ument	7.1	······································	
Scale	constant			
Corre	ections made	 		
j				
Base	station value and lo	ocation		
Eleva	ntion accuracy			
Instru	ument			
Meth	od Time Dom	nain	Frequency De	omain
Paran	neters – On time <u> </u>		Frequency	
]	Off timeDelay time		Range	
1				
Powe	— Integration	n time		
Powe	er			
Elect	rode array			
Elect	rode spacing			
	C -141-			

GRAVIT

INDUCED POLARIZATION