

REPORT on

MAGNETIC, VLF ELECTROMAGNETIC and

SELF-POTENTIAL SURVEYS

RECEIVED

LADY LOU PROPERTY

DEC 10 1990

BOMPAS TOWNSHIP

MINING LANDS SECTION

LARDER LAKE MINING DIVISION

ONTARIO

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MINING DIVISION
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RECEIVED

M. Leahy 2,12624
Kirkland Lake, Ontario
October, 1990





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INTRODUCTION

The property herein described consists of one unpatented mining claim, L-1110266, located about 1 1/4 mile north of the SE corner of Bompas Township, Larder Lake Mining Division, Ontario. The claim lies just west of the north end of Kenogami Lake and 1/2 mile northwest of Hotchkin (Little Kenogami) Lake. The town of Kirkland Lake lies about 11 miles to the east.

ACCESS

Grenfell Road leads west from Highway 11 at Kenogami and passes within 2000' of the property along the eastern boundary of Bompas Twp. The road is maintained year-round for about 3 miles from the Trans-Canada where it becomes passable only by pickup truck. A blazed line leads from Grenfell road to the property.

HISTORY

The property covers the old Lady Lou shaft area which was first discovered and worked around 1940. At that time, two shallow shafts (50'?) were sunk and some surface trenching was done.

GEOLOGY - REGIONAL

The property lies near Kirkland Lake in the Abitibi super-group of steeply dipping Archean metavolcanics and metasediments which straddles the Ontario - Quebec border. The famed E-W striking Larder - Cadillac break passes about 2 1/2 miles to the south. The property lies on a thin, 5 mile wide, N-S trending outlier of flat lying Huronian sediments bound on the east by mafic Kinojevis metavolcanics and on the west by the Watabeag batholith (Algoman).

GEOLOGY - LADY LOU CLAIM

The property is underlain by Huronian sediments 1/4 mile west of the eastern edge of the above mentioned Huronian outlier. Mineralization and geology were described by Lovell, 1980.

"Mineralized rock in dumps consists of quartz veins cutting Cobalt Group Gowganda Formation Coleman Member feldspathic sandstone (arkose). The quartz veins are vuggy in places, with euhedral crystals of quartz as drusy linings of gas spaces. Metallic minerals in the veins are chalcopyrite, pyrite, sphalerite and gold.

Quartz veins of an aggregate width of about 0.6m (2') strike N 30° W and dip 75 SW, and cut

GEOLOGY - LADY LOU CLAIM, cont'd.

Cobalt Group arkose. The veins contain pyrite, chalcopyrite and gold. A brecciated fracture zone containing pyrite, chalcopyrite and galena strikes across about perpendicular to the quartz band."

GEOPHYSICAL SURVEYS

During the summer of 1990, 1.7 miles of picket lines were cut on the property by M. Leahy, A. Black and P. Midtskogen. A base line 1650' long with a bearing of 45° was cut, joining the One and four tenths miles of transverse lines #1 and #3 posts. were cut at 200' intervals with a bearing of 135° and 100' were established at intervals. (Grid orientation designed to cut the regional magnetic trend at were taken at 50' transverse lines.) Readings for all surveys intervals and plotted on maps with a scale of 1" = 200'. Magnetic and Self-Potential readings were corrected for diurnal variations and contoured. VLF readings were plotted as profiles and contours using the Fraser method.

SELF POTENTIAL METHOD

On July 7,8,9, 1990, a self potential survey carried out over the property using the fixed base The ground (-) pot was based at BL +8 and technique. other readings are potentials relative to the base value at that The pots used were of the porcelain type with handles, all salvaged from McPhar SP-1 spare parts. wire was sufficient to reach all stations on the grid without moving the base station. A total of 177 readings miles of line), were taken at 50' intervals. The instrument used was a Micronta Digital Multimeter (22-185A) with an accuracy of +/- 0.6 Mv. Conductors respond as strong negative readings on high ground and as weaker negative readings in wet ground.

RESULTS OF SELF POTENTIAL SURVEY

Nearly all the readings taken were between +50 MV and -50 Mv. An area of wet ground along the creek west of LB conforms very nearly with the zone of low positive readings bound by the O contour. Most of the higher ground gave low negative readings. Only two anomalies were outlined by the survey. The first is a weak one-line anomaly just west of the shaft. The second is slightly stronger and runs between L12 and LB, two to three hundred feet west of the base line.

MAGNETIC SURVEY

On October 8, 1990, a magnetic survey was carried out over the property with readings taken at fifty foot intervals. The instrument used was a McPhar GP-81 Magnetometer with an accuracy of +/- 1 gamma. (A total of 1.7 miles of line were traversed and 157 readings were taken.) The sensor was mounted on a five foot aluminum pole which was held against the picket at each station. Contours were drawn at 50 gamma intervals. Two readings (in brackets, on map) in the shaft area are suspect due to the scrap iron pipe, etc. littered about, and were not contoured.

RESULTS OF MAGNETIC SURVEY

Magnetic relief over the property varies from 58,315 to 58,636 gammas with numerous, small, one-line highs and The regional trend appears to parallel the base line with indicated between L6 and L8 west of the base one cross fault Since no stripping or drilling was performed the responses be attributed to either the Huronian or recorded cannot A string of isolated highs (500 - 600 underlying Archean rocks. gammas) parallel to the south boundary may be a linear is not contourable because it cuts the lines obliquely. Narrow Matachewan Diabase dikes, common in the area, normally strike N-S, although magnetic diabase was observed by Lovell in dump material near L12 + 2005 near one of the small isolated highs near the south boundary.

VLF - EM SURVEY

On October 8, 1990, a VLF electromagnetic survey was conducted over the property. Readings were taken at fifty foot intervals, facing south. The station used was Cutler, Maine. A total of 1.5 miles of line were read and 189 readings were taken. Both dip angles (%) and quadrature readings were noted and plotted with a vertical scale of 1" = 50%. Dip angle readings were also contoured on a separate map using the Fraser method. The instrument used was a Ronka VLF - EM16.

RESULTS OF VLF - EM

Several zones of weak to moderate electromagnetic conductivity were outlined by the survey. Two parallel zones of moderate conductivity near BL + L4 split and weaken along their southerly extensions. A weak, discontinuous conductor striking NE - SW traverses lines 6, 8 and 12 near the northwest corner of the property. When interpreting these results, it should be noted, the grid orientation did not allow proper station to baseline alignment.

CONCLUSIONS

Both positive and negative conclusions can be drawn from the results of the surveys performed. Among the positive conclusion are: a) two self potential anomalies were identified, b) both SP anomalies are associated with weak VLF conductors, (probably not graphitic), and c) the SP anomaly on L12 at 150'-200' S is in an area of known sulphide mineralization.

The negative conclusions are: a) VLF station to conductor angle is poor, b) VLF conductors without SP response are probably overburden effects, (wet ground along creek), and c) complex, weak magnetic responses do not clearly define the geology.

RECOMMENDATIONS

- 1/ Cut detailed grids over SP anomalies lines 50' or 100'
 apart about 2500', total.
- 2/ Read detailed grids with SP.
- 3/ Read L4, 6, 8, 10, 12 with Max Min II to better define EM conductors.
- 4/ Read Mag over detailed grids and shaft area.
- 5/ Strip and wash showings at and near shaft 10 hours with 2-yard hoe.
- 6/ Map and sample stripped areas.
- 7/ Strip and wash SP anomaly north of baseline 5 hours with 2-yard hoe.

Michaelherby

REFERENCES

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- $^{\hbox{"}}$ A Guide to Prospecting by the Self Potential Method" , S.V. Burr, OGS, MP 99, 1982.
- "Spontaneous Polarization, or Self Potential Method", Sherwin F. Kelly, Mining Geophysics, pg 53-59.
- 3/ "Lady low Au Occurrence", Howard Lovell, 1981, Kirkland Lake Resident Geologist files.

Appendix i

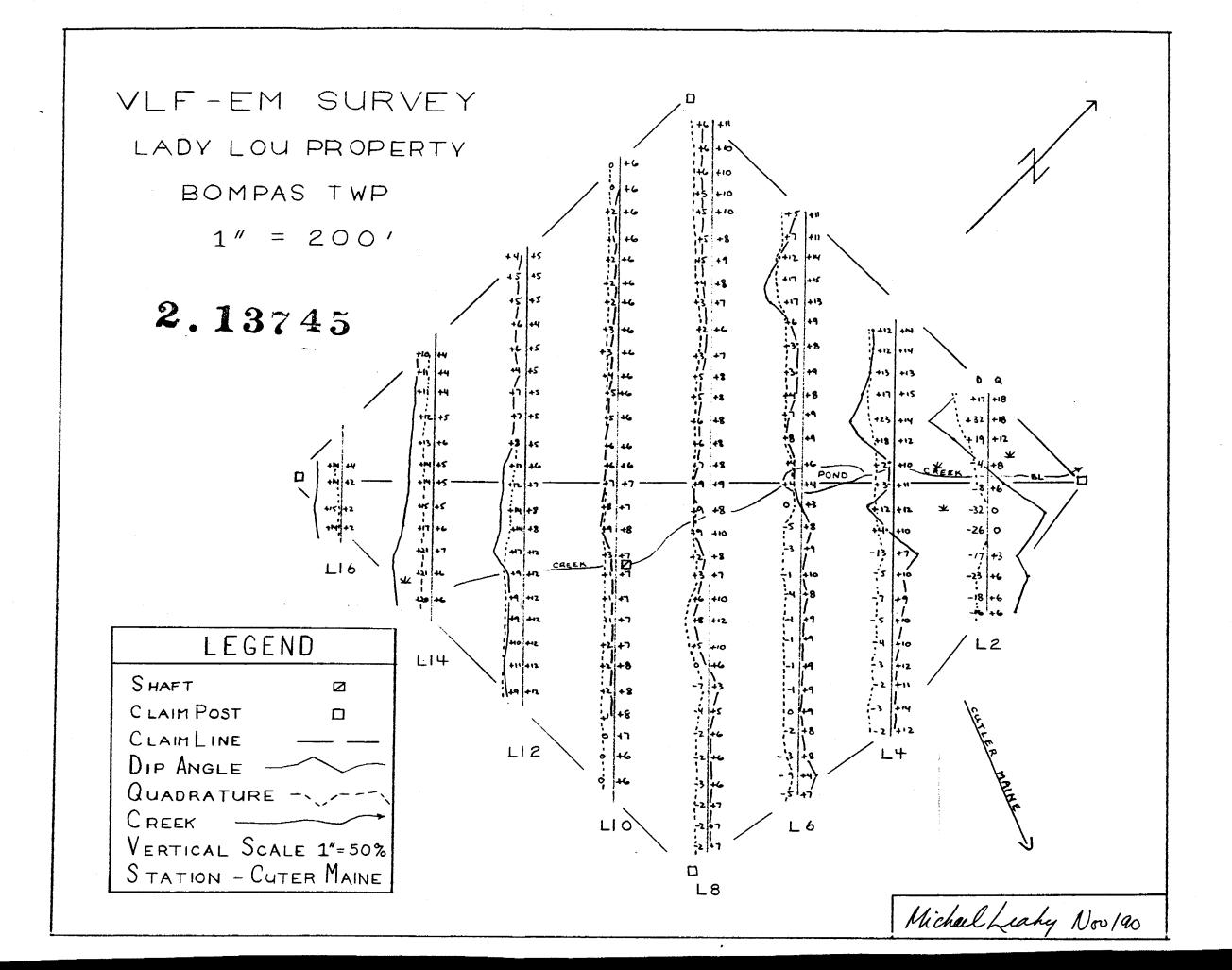
CERTIFICATE

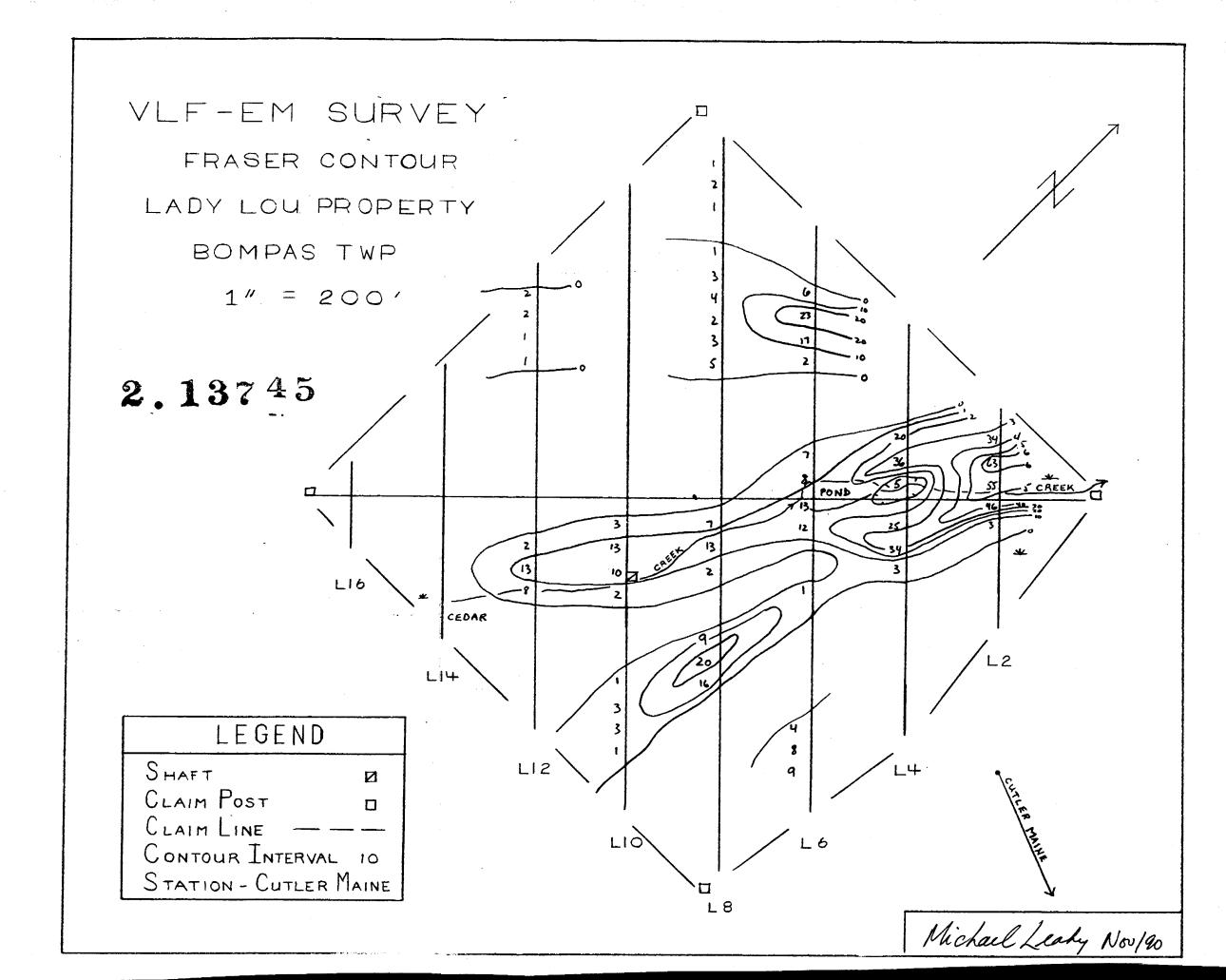
THIS IS TO CERTIFY:

- 1. I am a graduate in Prospecting Techniques from the Northern College of Applied Arts and Technology, Haileybury campus, 1976. I have been active as a prospector and exploration contractor since 1974.
- 2. I have completed the Haileybury School of Mines, Geophysical Field School, June, 1990
- 3. I am a member in good standing of the P.D.A., C.I.M.M., and I am president of the N.P.A. and a director of O.M.E.F.
- 4. I reside and hold office at 139 Carter Ave., Kirkland Lake, Ontario.
- 5. I have a 50% interest in the Lady Lou Property.
- 6. My report is based upon having personally performed the Self Potential and VLF-EM Surveys and having supervised the Magnetic Survey, a review of published information on the property and upon my familiarity and experience as a prospector in the Kirkland Lake camp.

Michael Leahy Prospector Kirkland Lake, Ontario October, 1990

Michael Leahy





MAGNETIC SURVEY LADY LOU PROPERTY BOMPAS TWP 1" = 200 1 2.13745 58 463 YIO Z SHAFT (788) LEGEND 472 SHAFT (437 C LAIM POST CLAIMLINE CREEK CONTOUR INTERVAL 50 8 * ADD 58,000 TO ALL LIO READINGS

Michael Leshy Nov /90





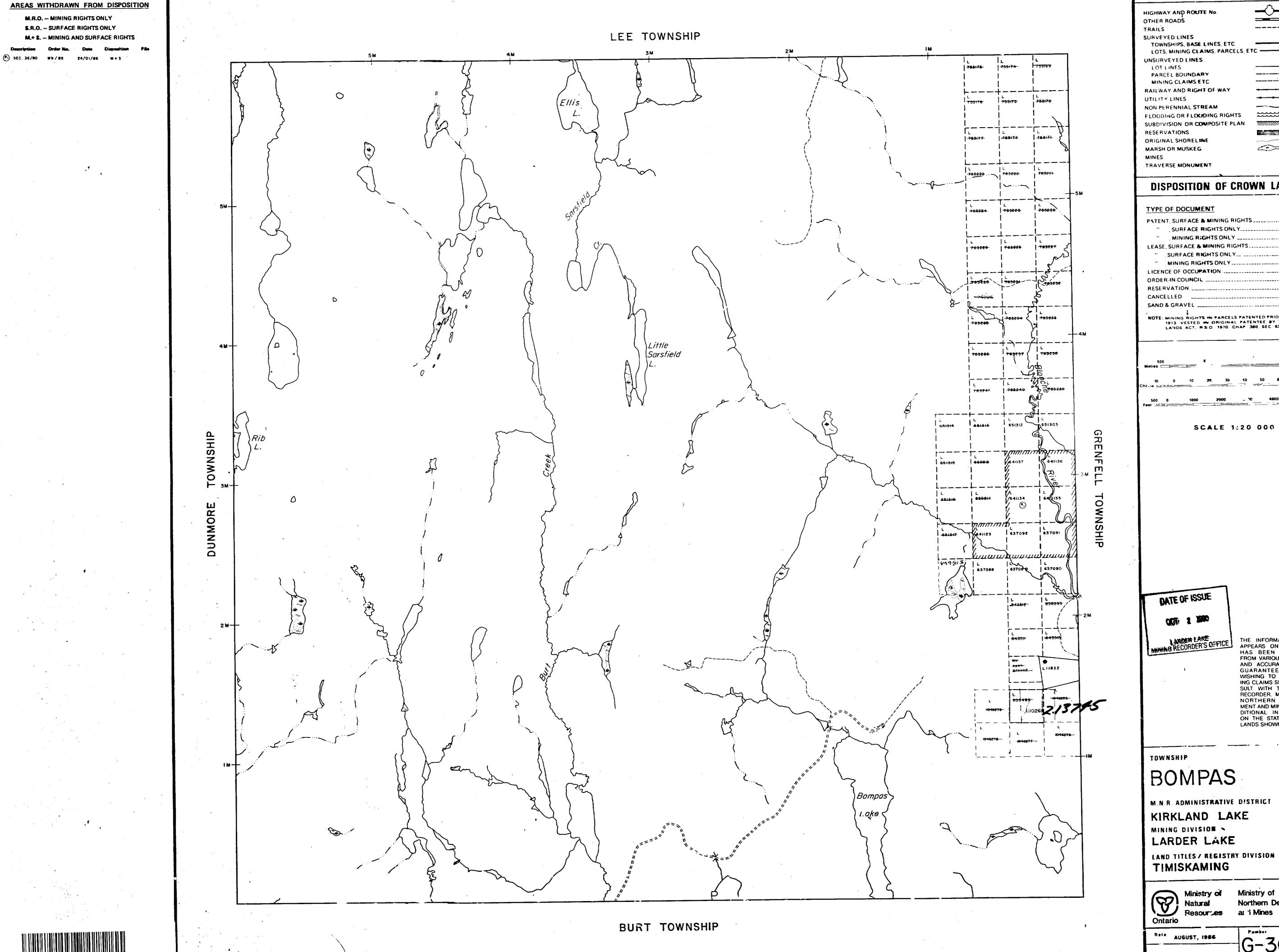
Report of Work

(Geophysical, Geological and Geochemical Surveys)

Instructions

- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to

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LEGEND

DISPOSITION OF CROWN LANDS

YPE OF DOCUMENT	SYMBOL
ATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
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EASE, SURFACE & MINING RIGHTS	
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ICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	OC
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CANCELLED	
SAND & GRAVEL	. ①
NOTE: MINING RIGHTS IN PARCELS PATENTED PR 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, RSD 1970, CHAP 380, SEC	IOR TO MAY 6.

SCALE 1:20 000

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

Ministry of Northern Developmend ar 1 Mines

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Report of Work

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Mining Act	(Geophysical, Geo	ological and	Geochei	micai Survi	eys)	Mining La	ands Section	n. Mineral [Developmen	t and Lands	.ad to Branch:
Type of Survey(s)				Mining Division Township or				Area	· · · · · ·		
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Recorded Holder(s)				*				Prospecto	r's Licence		
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M. LEAHY			- 2	.137	45)					
Name and Address of Author (o	Geo-Technical Report)								urvey (fron		
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Credits Requested per Ea	ch Claim in Column	s at right	Mining	Claims Tr	aversed	(List in n	umerical	sequenc	е)		
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Enter 40 days. (This includes	- Electromagnetic	20	1	11103	266						
line cutting)	- Magnetometer	20									
For each additional survey: using the same grid:	- Other									. <u> </u>	
Enter 20 days (for each)	Geological	-		· · · · · ·			-		-		<u>-</u>
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enter total(s) here	Magnetometer					DEC	101	390	: *	-	
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apply to Airborne	Magnetometer										
Surveys.	•			1 <u>i</u>	IVE	0 1					
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Total miles flown over cla	aim(s).								r		
Date Recorded Holder or Agent (Signature) Nov 19 / 90 Wickael Luck					Total number of mining claims covered				1		
Certification Verifying Rep	ort of Work	y	L	- 4		,	by th	is report of	work. L		
I hereby certify that I have a per after its completion and annexed	sonal and intimate knowle	edge of the facts	s set forth	in this Report	of Work, h	aving perfo	rmed the w	ork or witne	ssed same	during and/	or
Name and Address of Person Ce	<u> </u>	· · · · · · · · · · · · · · · · · · ·						1			
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