

ART ELLIOTT EXPLORATION

"MAJOR LECKIE'S SHAFT" (cobalt-copper prospect)

LEASK TWP.LARDER DISTRICT, ONTARIO.

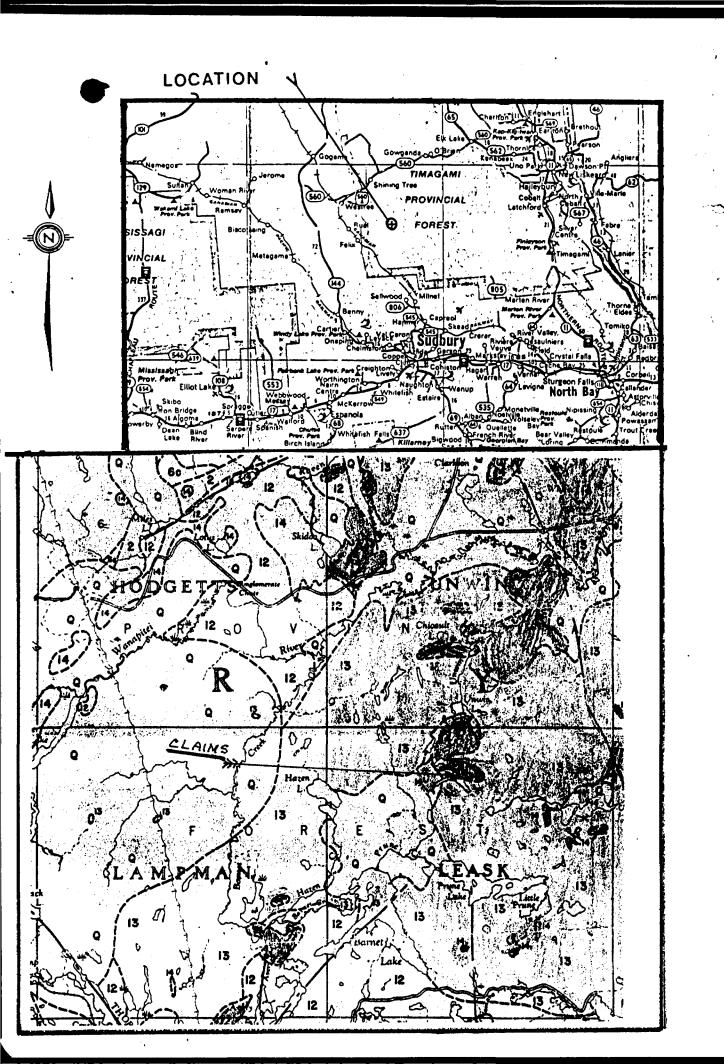
REPORT ON

MAGNETIC & SP. SURVEYS

ART ELLIOTT

20 AUG. '84







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LOCATION MAP (back of front cover)

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Survey data

Self potential profiles, interpreted zones.

Close station SP survey, shaft area.

Magnetic survey profiles.

RECEIVED

AUG 28 1984

MINING LANDS SECTION

INTRODUCTION:

These surveys were undertaken to check out the extent of mineralization in the vicinity of an old shaft "rediscovered" two years ago in Leask Twp. The target was cobalt, although copper and low gold values had been determined from assay of dump material. Assessment work was also due. A close-station grid of ten-foot stations was established in the immediate area around the shaft for self potential survey. The two surrounding claims were covered on a grid of 50-ft stations on picket lines not less than 400 ft. separation.

SUMMARY:

Interpretation of the S.P. and magnetic data suggest that the shaft was put down on a narrow vein or sulphide zone about 24 inches wide. The data also suggests that major sulphide zones on both east and west sides of the gully containing the shaft have the same strike (approx. N. by 30 degrees east) and may be 100 feet wide in some sections. The zones seem to persist with good continuity on strike and may be open beyond the survey boundaries. Visible chalcopyrite and traces of cobalt were seen in chip samples taken in interpreted sulphide zones. The major S.P. zones coincide on overlay with anomalously high and low magnetic values. A sampling program should be undertaken comprehensively covering the most likely areas.

PROPERTY:

Four claims surround the shaft located about one mile south of the Unwin Leask Twp. boundary and about 1,100 feet north of a small nameless lake, 51 air miles north of Ramsey Lake in Sudbury. Best access is by float plane from Ramsey Lake. Otherwise access is from a logging road near the Wanapiei River, by cance then blazed and cut trail about six miles overland. Claims L. 593820 and L. 593821 were covered by the surveys.

HISTORY:

(See next page)

HISTORY:

In a personal communication, George Biles, an elderly retired prospector of Haileybury, Ont., reported that he mounted an expedition about 17 years ago to locate the "legendary" shaft. He had been informed many years previously by a prospector from Shiningtree, Ont., now deceased, that he had been employed by Major J.A. Leckie circa 1910 on a shaft which followed down a vein of massive cobalt sulphides. The theory at the time was that rich silver would often by found in association with cobalt, as had been the experience in the Cobalt silver camp. Only traces of silver were found, and as there was no market for cobalt at the time, the project was abandoned. The vein was described as massive sulphides from eight to ten inches wide and persisting to depth.

Mr. Biles reported that portaging from Welcome Lake by a series of creeks and lakes he reached a small bay on the north shore of a "quarter-moon" lake, on the east shore of which he discerned the rotted-down outlines of three cabins which he thought to have comprised the work camp. he did not find the shaft.

On the basis of this "legend" Art Elliott staked around the bay in 1982 and located the shaft in 1983. There is a large dump of elevated meterial suggesting the 10 ft. by 15 ft. shaft, which is water-filled may have been 40 to 50 feet deep at one time, but sounded by pole, seems now to be not more than 25 ft. deep. An old iron winch, complete with cable and hook is the only piece of equipment remaining in the vixinity of the shaft. There is no sign of any work for possibly 60 to 70 years, except a snowmobile trail cut by a local trapper.

GEOLOGY:

According to the Westree Sheet (N.T.S. Reference 41 P/SW) and personal observation, the claims cover metasediments on the southwest which strike north 25 or 30 degrees east into contact with gabbroic rock identified as Nipissing diabase which covers most of the immediate area. The gully in which the shaft is located has a similar strike and may be a minor fault. (more)

GEOLOGY: (Cont.)

Mineralization at the shaft seems confined to a dioritic material which seems to penetrate the diabase and is associated with it. Large vertical quartz veins, up to ten feet across, were observed in the southwest metasediments, striking N. by E.

SURVEY METHODS AND RESULTS:

BL 00 was established about 100 feet west of the shaft and a base line cut and picketed N-S. to the claim boundaries. East-West lines were cut and picketed at 400 ft. or less separations to claim lines, with stations at 50-foot separation. In the shaft area tenfoot stations were used for S.P. on grid lines 50 feet apart. The Bl.00 picket was used as a check post to control magnetic drift with an assigned value of 1.600 gammas over 58,000 gammas background. Values below 1,500 were considered lows for plotting purposes. Readings were plotted to the negrest 50 g. A Sharpe fluxgate magnetometer model Mfl was employed on the 3K range and only modest drift corrections were required. A Simpson Digital Multimeter Model 463 was used for S.P. work with prescribed copper anodes in copper sulphate supersaturated solution in porous ceramic probes. The instrument is sensitive to .0001 m.v.D.C.

The S.P. data furnished a plausible basis for interpretation of sulphide zones as charted. The magnetic data was profiled but not contoured, owing to the difficulty arising from extremely anomalous data at very close separation. However, patterns emerging from the magnetic profiles tend to reinforce the S.P. anomalies in some areas, not so in others. This would be consistent with erratic distribution of iron materials and persisting zones of other sulphides, notably chalcopyrite..

CONCLUSIONS:

A comprehensive **m sampling program should be undertaken in strong zones, perhaps including rock trenching where indications favor it. Follow up S.P. readings should be taken at close stations across promising areas for better definition. Use of 50-foot stations for S.P. work seems to be too coarse for fine definition of what are likely narrow mineralized band only a few feet wide. This becomes apparent in the close-station chart submitted herewith.

Respectfully submitted,





Mining Lands Section
Control Sheet

File No 2.7/06

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		Signature of Assessor
		12/09/84

Date

November 5, 1984

File: 240

Our File: 2.7106

Mining Recorder

Ministry of Natural Resources

4 Government Road East

Kirkland Lake, Onsario

Dear Sir:

P2N 1A2

RE: Geophysical (Self Potential and Magnetometer)
Survey submitted on Mining Claims L 593819
to 21 inclusive in the Township of Leakk

Enclosed is a revised approval for Magnetometer and Self Potential assessment work credits recorded on July 4, 1984.

Please disregard the approval dated September 25, 1984 for this same survey.

Sours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

D. Kinvig:mc

cc: Art Elliott 438 High Street London, Ontario NGC 4L5

Encl.

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27 JUNE 84 Recorded Holder or Agent (Signature)			بهنسل	Date Approved	OBIN		Tegror -	7
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 herero, having performed the work or witnessed same during and/or after its completion and the annexed report is true.								
Name and Postal Acciress of Person Certifying ART ELLIOTT 438 HIGH ST LONDON, CRT								
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1362 (81/9)								

Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by co cultants, draftsmen, etc..

MAGNETIC

Credits

Line-cutting Days

Total Credits 60

20

Type of Survey SELF POTENTIAL

Line-cutting Da**ys**

Total Credits

No. of Claims

Days per Ctaim

Type of Survey (ESTIMATED) DRAFTING, TYPING REPERTS

Line-cutting Days

Total Credits

No. of Claims

Days per Claim

35

3

11.6

Type of Survey

Line-cutting Days

Total Credits

No. of Claims

Days per Claim

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> 1 12:30 pm. KD



Recording Office 4 Government Road East Kirkland Lake, Ontario P2N 1A2

October 19, 1984

Lands Management Branch Ministry of Natural Resources Room 6610, Whitney Block Queen's Park, 99 Wellesley St.W. TORONTO, Ontario M7A 1W3 RECEIVED

OCT 23 1984

MINING LANDS SECTION

Attention: Arthur Barr

Re: Your File 2.7106 Our File 240

Enclosed is a revised report of work. The technical days of report writing, drafting etc., listed on the reverse of the report of work should have been taken into account when recording the work reported.

Would you please issue a revised approval for this work report.

Yours truly,

George Koleszar Mining Recorder Telephone (705) 567-9241

GK/b1m

Enclosure

Land Mangement Branch 2.7100. Instructions: - Please type or print.
- If number of mining claims strayersed Jele L. 593818 exceeds space on this form, attach a list. Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

— Do not use shaded areas below. The Mining Act Township or Area

LEASK "MAGNETIC & SELF POTENTIAL TWP Prospector's Licence No. C-31734. ART ELLIOTT 438 HIGH ST. LONDON, ONT NGC 425 ELLIOTI EXPLORATION Name and Address of Author (of Geo-Technical report) Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Mining Claim Expend. Days Cr. Mining Claim Days per Claim Expend. Geophysical Number Prefix Prefix Days Cr. Number For first survey: 593821 - Electromagnetic ム Enter 40 days. (This includes line cutting) 593820 - Magnetometer - Radiometric 593819 For each additional survey: using the same grid: - Other Enter 20 days (for each) Geological Geochemical Man Days Days per Claim Geophysical Complete reverse side RECEIVED - Electromagnetic and enter total(s) here Magnetometer 20 JUL 1 0 1984 - Radiometric · Other S.P. .37.3 MINING LANDS SECTION Geological Geochemical Airborne Credits Note: Special provisions Electromagnetic credits do not apply Magnetometer to Airborne Surveys. Radiometric LARDER Expenditures (excludes power stripping) Type of Work Performed Performed on Claim(s) 7 18 19 110 11 12 1 1 2 1 3 1 4 5 1 6 Calculation of Expenditure Days Credits Total Total Expenditures **Days Credits** \$ 15 Total number of mining 3 claims covered by this report of work. Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded Recorded 27 JUNE 84 Recorded Holder or Agent (Signature) 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 Posta! Address of Person Certifying ART FLLIOTT, 438 HIGH ST LONDON, CAT Date Certified | Certified by (Signature):

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed consultants, draftsmen, etc..

Type of Survey
MAGNETIC

Technical Days

Technical Days Credits

Line-cutting Days

Total Credits

No. of Claims

Days per Claim

8

56

4

60

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20

Type of Survey POTENTIAL

Technical Days

Technical Days Credits

Line-cutting Days

Total Credits

No. of Claims

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Type of Survey REPORTS ESTIMATED) DRAFTING, TYPING

Technical Days

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Line-cutting Days

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Total Credits

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No. of Claims

Days per Claim

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Type of Survey

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7

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SUDBURY MINING DIVISION RECEIVED JUN :. 8, 1984 78 9 9 1 3 1 2 1 2 1 2 1 3 1 4 1 5 1 6

> 12:30 pm. KD

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
(Magnetomater and Self Potential) Survey submitted on

We have received reports and maps for a Geophysical (Magnetometer and Self Potential) Survey submitted on Mining Claims L 593819 et al in the Township of Leask.

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. Barrisc

cc: Art Elliott 438 High Street London, Ontario N6C 4L5

Ontario

OFFICE USE ONLY

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.

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GEOPHYSICAL TECHNICAL DATA

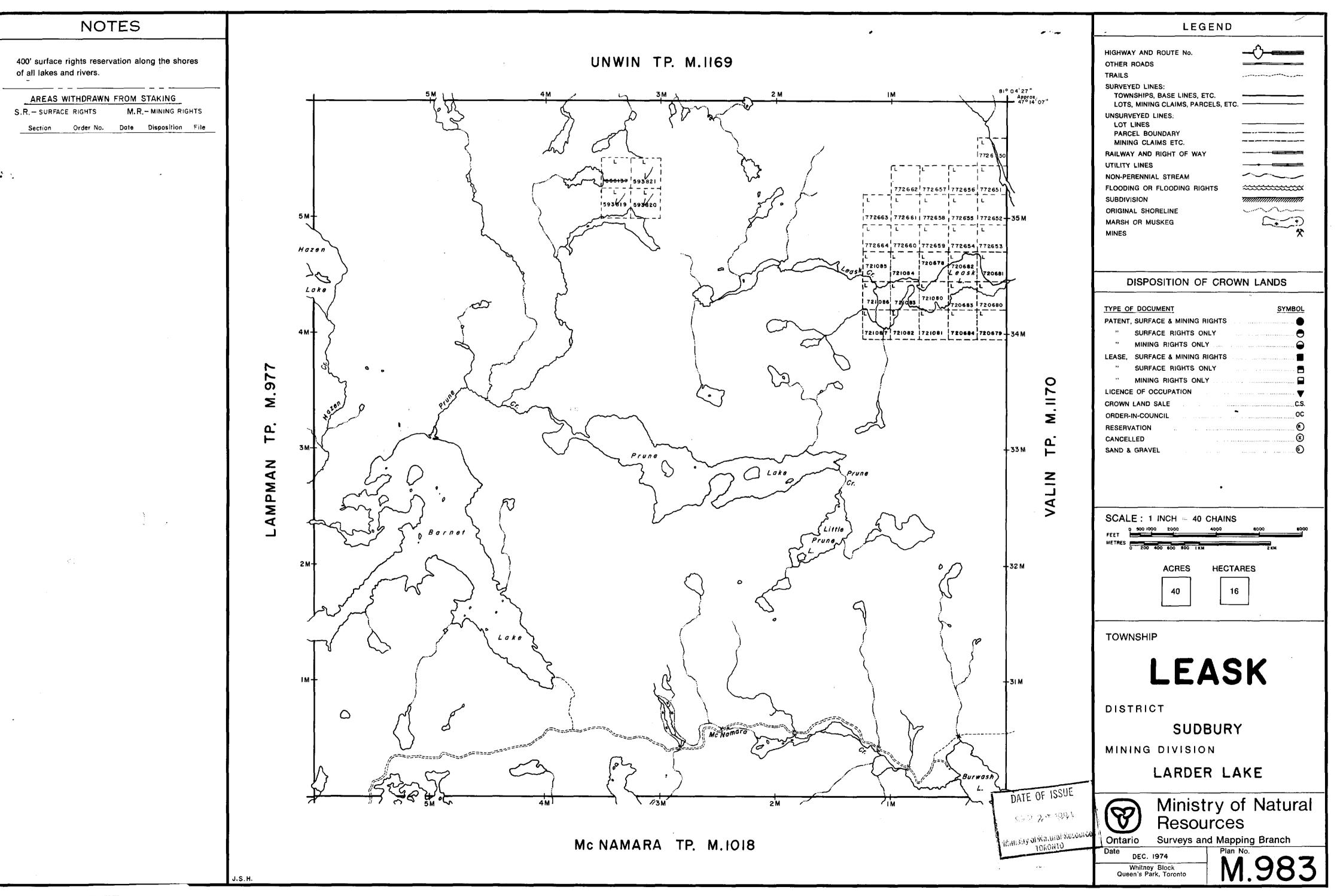
GROUND SURVEYS - If more than one survey, specify data for each type of survey Number of Stations MAG: 233 S.P. 3/8 Number of Readings M. 233 SP 3/6 Profile scale MAG: 1/4"=1009. S.P. 1/4"=10 MN. DC. Station interval _50' Contour interval _N/A Instrument Sharpe Fluxgate MF2 Accuracy - Scale constant _ Diurnal correction method Time lapse pro vating Base Station check-in interval (hours) Z hys zuax. Base Station location and value B.L.OO - 1600 q. L.O+50 E 1650 q. Instrument _____ Coil configuration _____ Coil separation _____ Accuracy _____ ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line Method: Frequency____ (specify V.L.F. station) Parameters measured _____ Instrument _____ Scale constant _____ Corrections made _____ Base station value and location _____ Elevation accuracy____ Instrument _____ ☐ Frequency Domain Parameters - On time ______ Frequency _____ - Off time _____ Range ___ - Delay time _ - Integration time Power _____ Electrode array Electrode spacing Type of electrode _____

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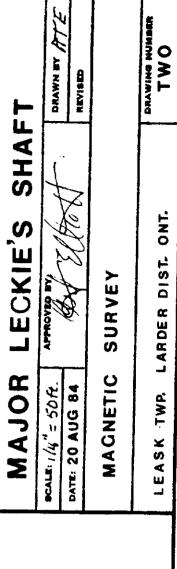
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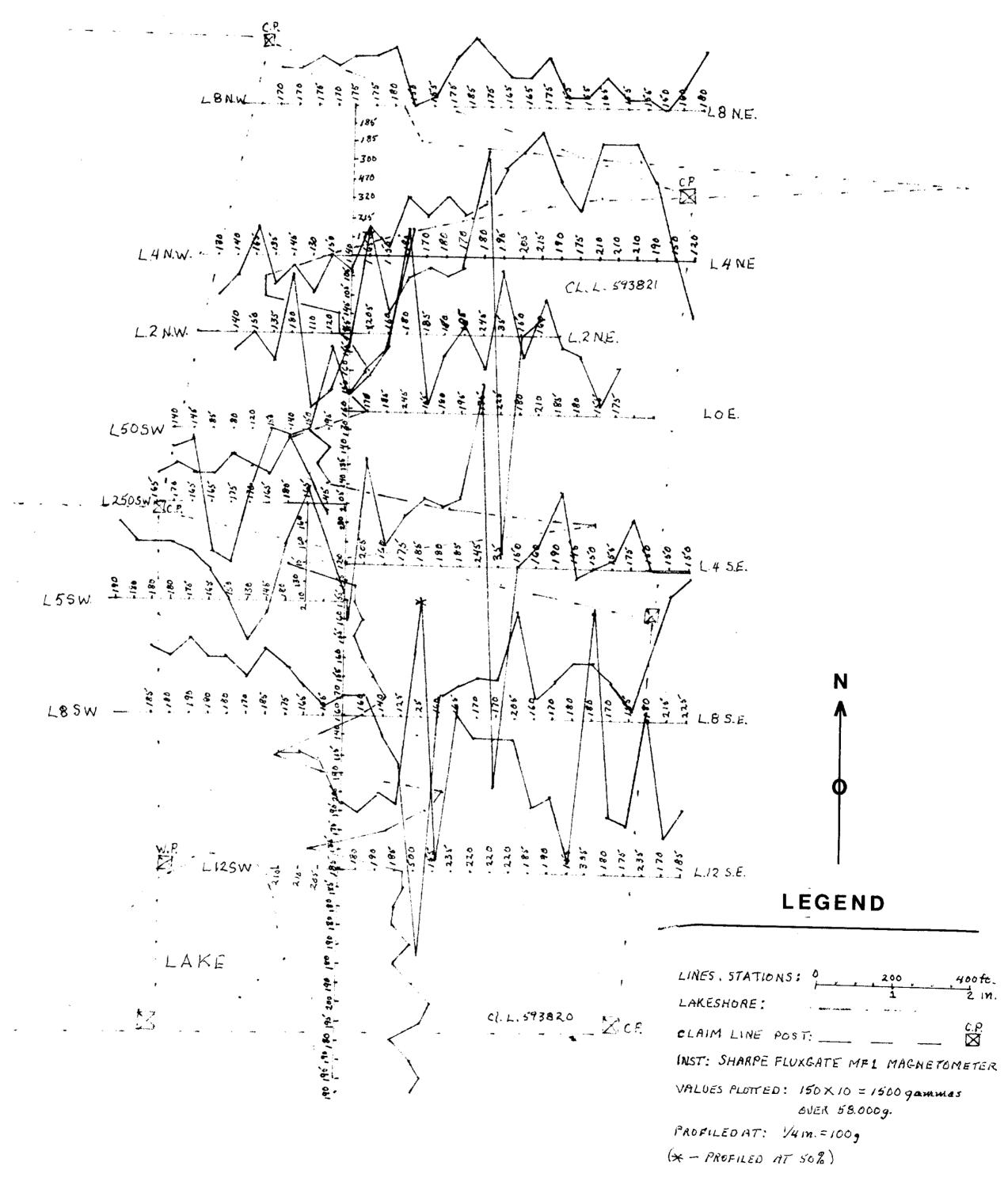
GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	
Total Number of Samples	ANALYTICAL METHODS
Type of Sample(Nature of Material)	
Average Sample Weight	p. p. m. 🔟
Method of Collection	
	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	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests)
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	General —
General	
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27106





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CL. L. 593819

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PRINTED ON NO. 1000H CLEARPRI

SHAFT (COBALT) SURVEY SELF POTENTIAL MAJOR SCALE: 14 In. = 50 ft.
DATE: 20 AUG. '84 L8NW $N \cdot \overline{(} A \overline{)}$ L 593821 SHAFT LOE L50 SW +4 L 250 SW L8 SW LAKE LEGEND L 593819 L 593820 $oxed{oxed}$ $ar{\mathsf{CP}}$ LINES, STATIONS 400 ft. 2 in. LAKESHORE CLAIM LINE, POST _ INST. SIMPSON DIGITAL METER 463 - TO .0001 m. v. INTERP. SULPHIDE ZONE -PROFILED AT 1/4 in = 10 m.v.

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'SX34 PRINTED ON NO. 1000H CL

LEASK TWP. LARDER DIST. ONT.

