

32D05NW0089 2.7510 ELLIOTT

010

A REPORT ON MAGNETOMETER SURVEYING
on
CLAIM L 664057, ELLIOTT TWP.
LARDER LAKE MINING DIVISION, ONTARIO

Markham, Ontario
December 3, 1984

RECEIVED
DEC - 5 1984
L.G. Hobbs, P.Eng
MINING LANDS SECTION

GENERAL

During the summer of 1984 a magnetometer 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 lines off it at 400 ft. intervals. A total of 1100 ft. of baseline and 4300 ft. of crosslines were cut.

INSTRUMENT AND SURVEY

A Gem Systems GSMB model total field proton magnetometer with a repeatability of 1-2 gammas was used.

The instrument was read at 100 ft. intervals along the grid, diurnal corrections being made by the time/linear method looping to a base station at BL, L60W. A total of 47 stations were read and plotted. Readings were corrected to a base of 58,000 gammas.

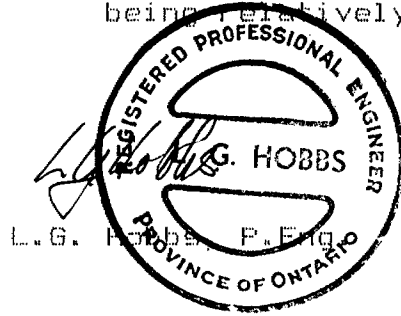
RESULTS AND INTERPRETATION

The results are plotted at 1 inch equals 200 ft. and contoured at 100 gamma intervals on the map which accompanies this report. Because no outcrop is known to exist on the claim interpretation is difficult. The following general observations may be made however.

1. A range of values from 1171 to 2109 gammas (above 58,000 gamma base) was recorded, indicating the claim to be underlain by rocks of highly variable magnetic susceptibility.

Strikes in the southern half of the claim appear to be northeasterly conformable with known formational strikes in the area. Strikes in the northerly half of the claim are westerly suggesting the presence of a fold and/or intrusive in that area.

3. Narrow, highly magnetic bands such as those at 60W,7S and 68W,3N are possibly caused by iron formation and may be useful as marker horizons in future surveying.
4. The steep gradients exhibited suggest depth to bedrock as being relatively shallow.



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.

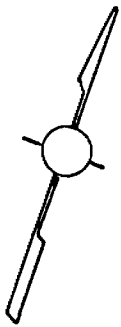
That I am a member of the Association of Professional Engineers of Ontario and the Prospectors and Developers Association.

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



L.G. Hobbs, P.Eng.

Markham, Ont.
Dec. 3, 1984



B.L.

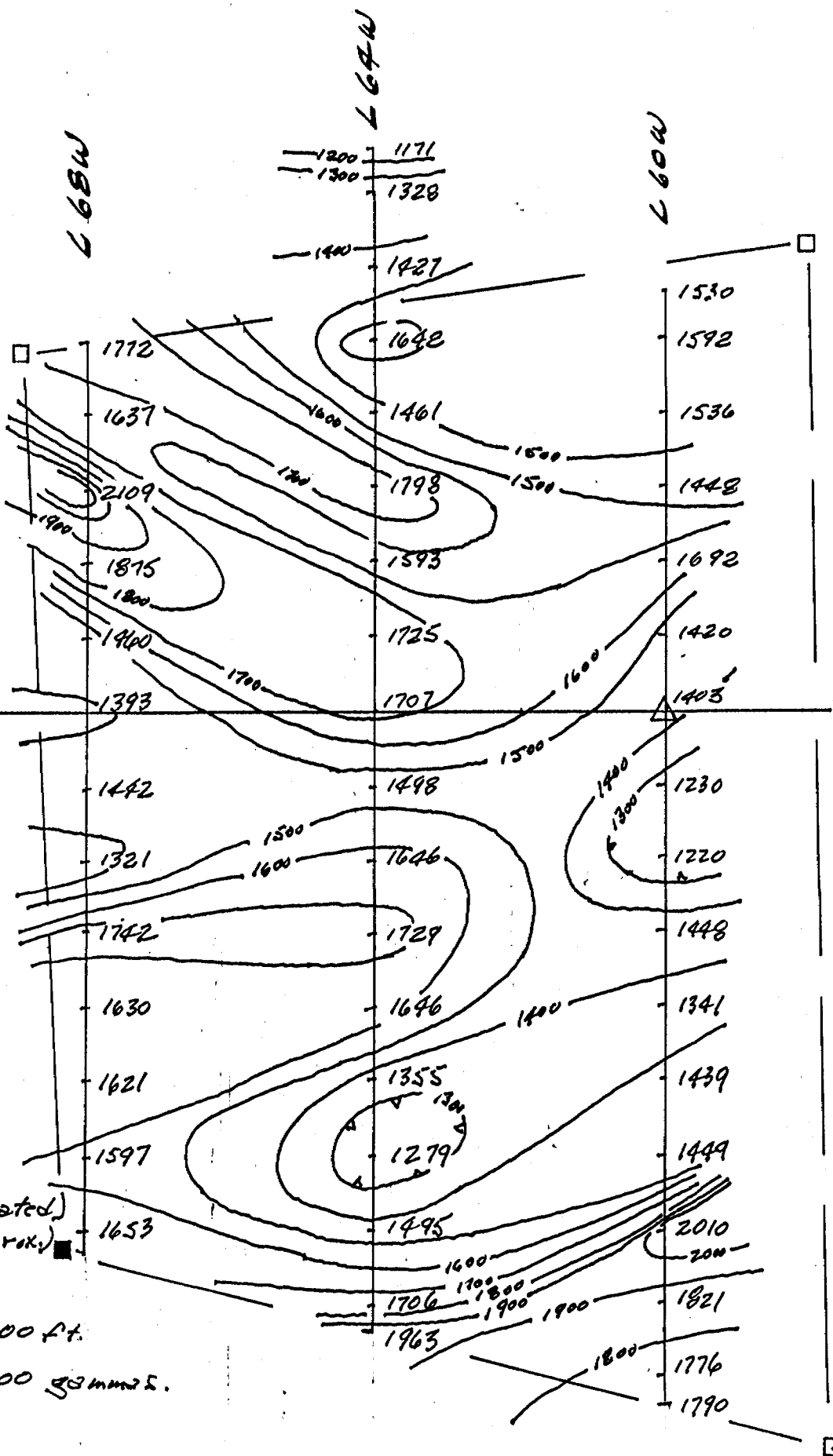
Az. = 70°

LEGEND

- > 1800 gauss
- 1700-1800
- 1600-1700
- 1500-1600
- 1400-1500
- 1300-1400
- < 1300
- △ Base Sta.
- Claim Post (located)
- Claim Post (approx.)

Scale: 1 in = 200 ft.

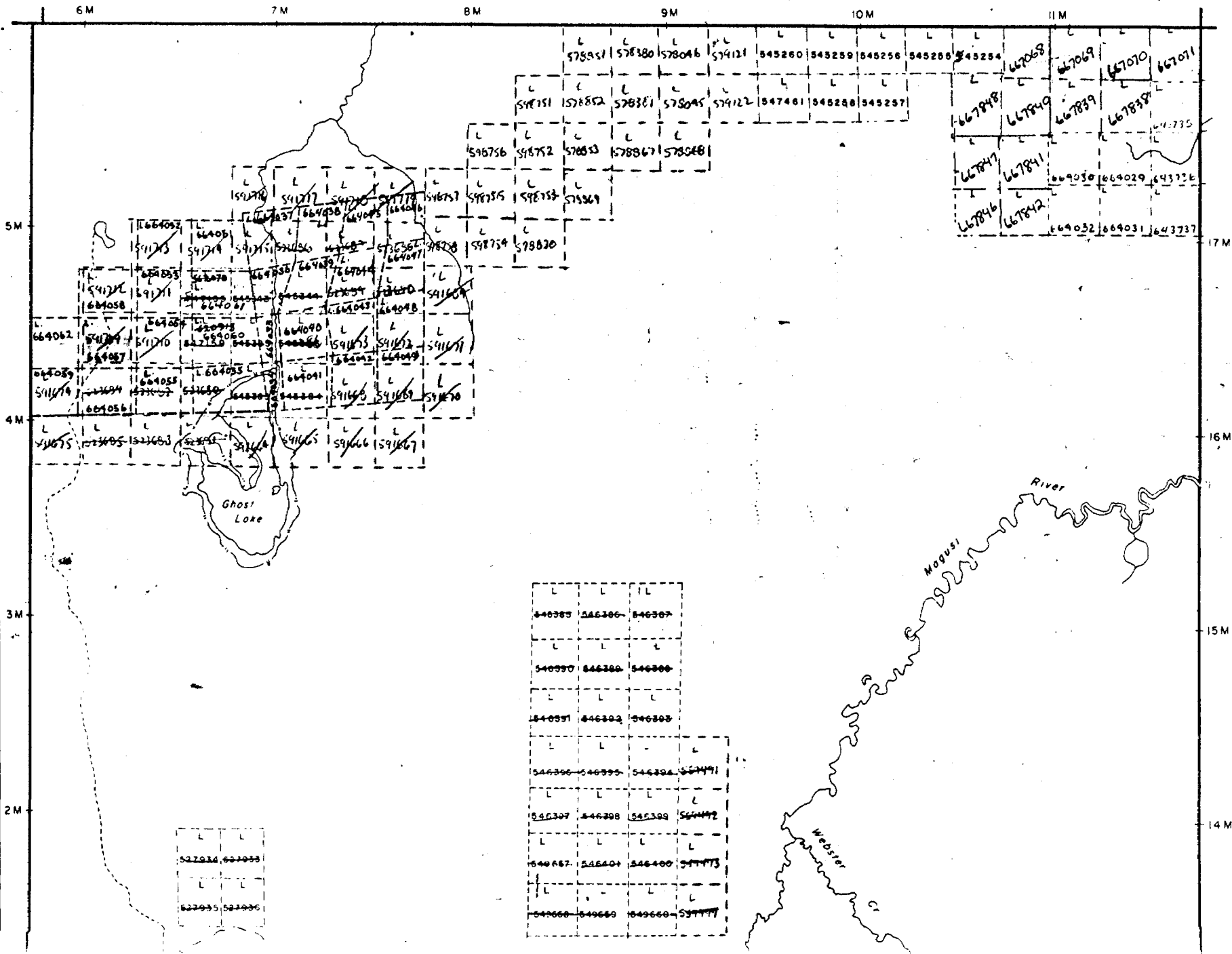
To base of 58000 gauss.



MAGNETOMETER SURVEY - CLAIM L664057

HARKER TWP M. 353

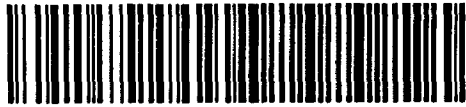
400
lak.



TANNAHILL TWP. M. 390

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300

Mining Lands Section

File No 2.7510

Control Sheet

TYPE OF SURVEY



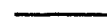
GEOPHYSICAL



GEOLOGICAL



GEOCHEMICAL



EXPENDITURE

MINING LANDS COMMENTS:

Multiple horizontal lines for handwritten comments.

Lgd. L.D.

Dennis K.

Signature of Assessor

Dec. 12/84

Date

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.

Type of Survey Magnetometer.
Township or Area Ellett Twp.
Claim holder(s) Union Mining Corp. Suite 408
801 W. 1st St. MSB 259
Author of Report L. G. Hobbs
Address Suite 4, 101 Amber St. Northham
Covering Dates of Survey Aug. 3 - Dec 3/84
(linecutting to office)
Total Miles of Line cut 1+

MINING CLAIMS TRAVERSED
List numerically

L 664057
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
--Electromagnetic _____
--Magnetometer 40
--Radiometric _____
--Other _____
Geological _____
Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: _____ SIGNATURE: [Signature]
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications [Signature]

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

RECEIVED

DEC - 5 1984

MINING LANDS SECTION

TOTAL CLAIMS 1

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 47 Number of Readings 47
Station interval 100 ft.
Line spacing 400 ft.
Profile scale or Contour intervals 100 gmmms.
(specify for each type of survey)

MAGNETIC

Instrument GEM GSM 8
Accuracy - Scale constant 1-2 gmmms.
Diurnal correction method Time - lines.
Base station location L. 60W, RL.

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location

Elevation accuracy

INDUCED POLARIZATION -- RESISTIVITY

Instrument
Time domain Frequency domain
Frequency Range
Power
Electrode array
Electrode spacing
Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ 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 _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
 p. p. m.
 p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

