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RECEIVED

MAY 16 1975

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DEC 18 1974

PROJECTS UNIT

GENEVA LAKE PROJECT

REPORT ON GROUND MAGNETOMETER SURVEY

Toronto, Ontario
August 16, 1974

Wallace Ng-See-Quan

GENEVA LAKE PROJECT
REPORT ON GROUND MAGNETOMETER SURVEY

2.1668

INTRODUCTION

Line cutting and a ground magnetometer survey were completed on the Geneva Lake Property during the period of May 21, 1974 to July 20, 1974.

The Geneva Lake Property, consisting of 19 claims (S 378055 to S 378068 inclusive and S 378433 to S 378437 inclusive) is held by St. Joseph Explorations Limited, 90 Eglinton Avenue West, 5th Floor, Toronto, Ontario, Canada M4R 2E4.

LOCATION AND ACCESS

The Geneva Lake Property is located on the east side of Geneva Lake in Hess Township (latitude $46^{\circ} 46' 00''$ N, longitude $81^{\circ} 31' 00''$ W) about 40 miles north of Sudbury.

Access to the property is via the Geneva Lake road, which branches east off Hwy. 144 about one mile north of Cartier, and leads to a trailer park on Geneva Lake. A boat may then be used to make the short trip across the Lake to the property.

Figure 1 shows location of property and figure 2 shows the claim group that makes up the Geneva Lake Property.

PREVIOUS WORK

The Geneva Lake Property was staked by St. Joseph Explorations Limited on January 3rd, 1974. No previous work was ever done on this property to the knowledge of the author.

TORONTO, ONTARIO

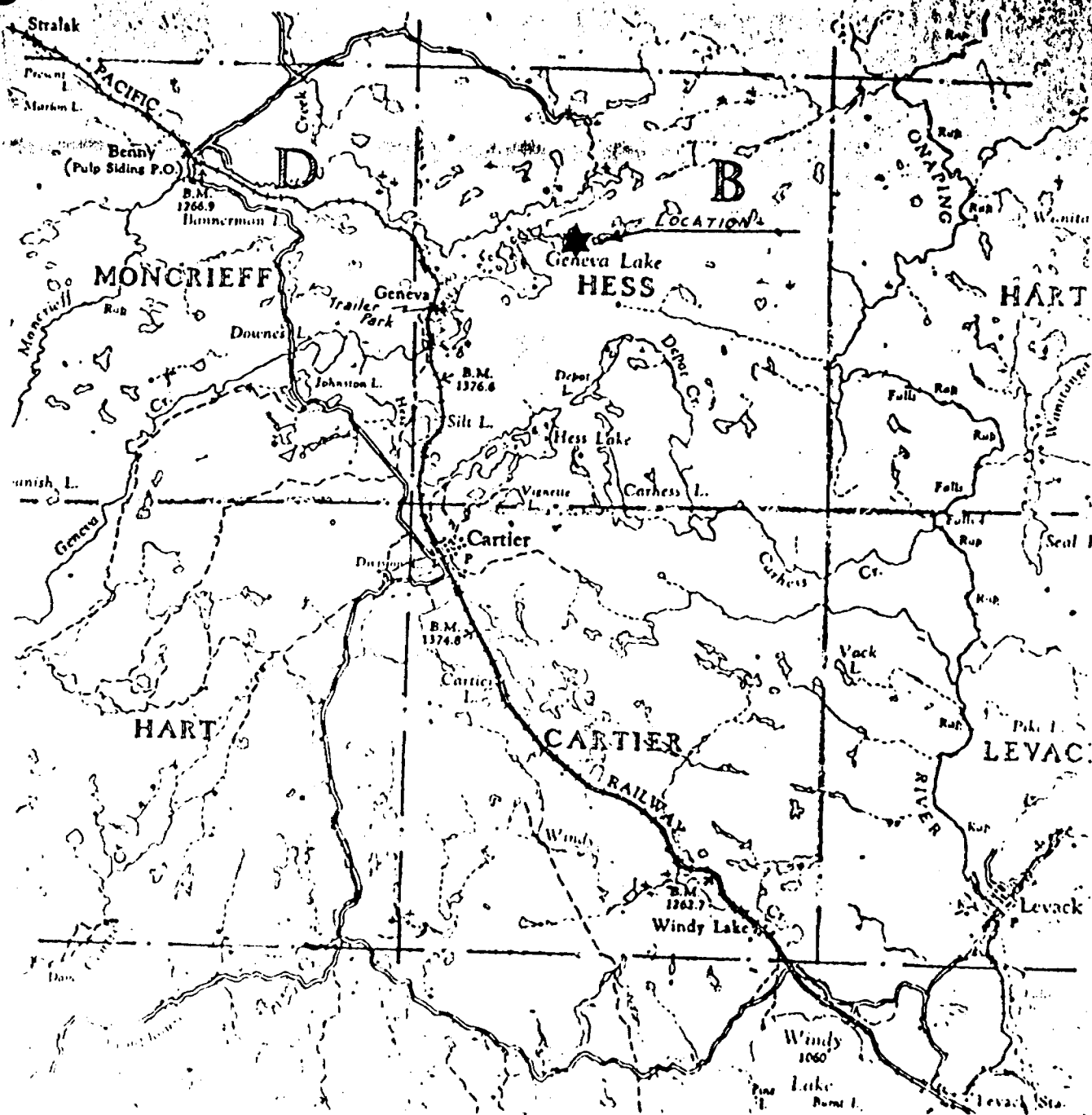
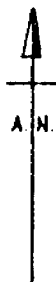


Figure 1



ST. JOSEPH EXPLORATIONS LIMITED TORONTO, CANADA		
LOCALITY PLAN		
SCALE 1" = 2 MILES		
APPROX. LAT. & LONG. OF LOWER RT. COR. OF DWS	PROJECT NO. 150	SHEET NO.
— — — — — LATITUDE	REPORT NO.	OF
— — — — — LONGITUDE		21

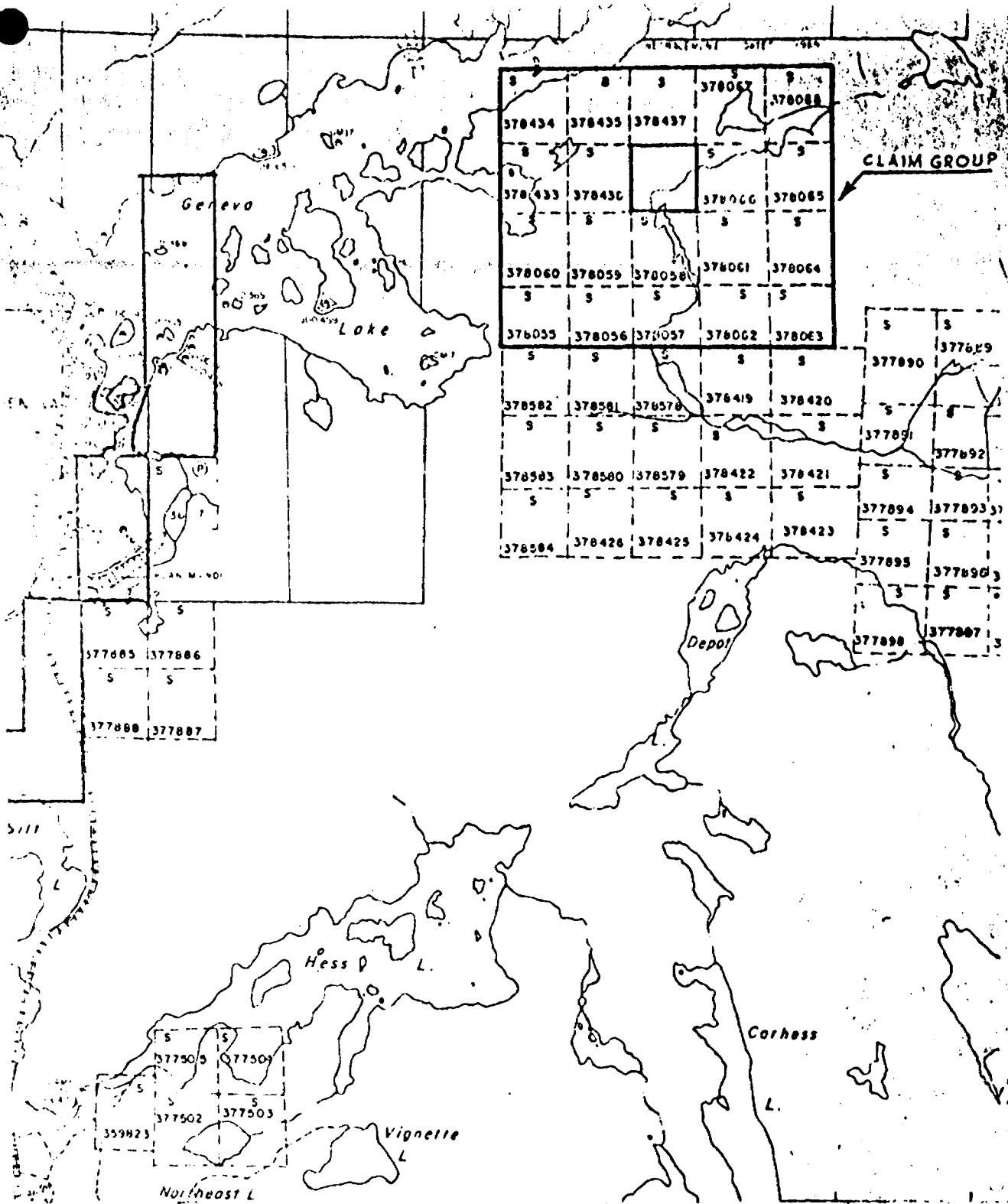


Figure 2



ST. JOSEPH EXPLORATIONS LIMITED TORONTO, CANADA		
LOCATION OF CLAIM GROUP		
SCALE 1" = 1/2 MILE		
UPWARD LAT & LONG OF LOWER RT COR OF DAG		
PROJECT NO. <u>150</u>	SHEET NO.	OF
REPORT NO.	DATE <u>11/1/64</u>	

AREA SURVEYED

18.6 line miles were cut on the property and the survey was conducted over the entire property except the northern part of claim S 378435. Line spacing was at 300' intervals.

MAGNETOMETER SURVEY

A Scintrex MF-2 fluxgate magnetometer, measuring the variations of the vertical component of the earth's magnetic field, was used in this survey. The prime base station was established on a firmly fixed picket on base line, L24E and was assigned a value of 500 gammas.

Additional base stations were established at 300' foot intervals on the base line to correct for diurnal variations. The prime base station was not tied to any regional base station.

Readings were taken every 100 feet on cross lines, which were 300 feet apart, except in cases of sharp magnetic gradient where readings were taken at 50 foot intervals.

RESULTS AND INTERPRETATION

The results of the magnetometer survey are presented on Map 1 (in pocket). Magnetic background in the area surveyed is approximately 500 gammas with moderately high magnetic relief.

This survey outlined two major relatively narrow, linear magnetic features. Both strike at about N 70° E.

These two features are noted at:

I: L 3E, 21S to L 12E, 17S

II: L 45E, 24S to L 51E, 23S

The two major features may be reflecting shear zones.

Several relatively high magnetic features are also noted. However these features are of limited extent and are generally restricted just to the line surveyed.

The northeastern part of the property reflects a higher magnetic relief than the rest of the property. This may be indicative of a more basic lithologic unit that may be present in that part of the property.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the magnetometer survey no definite conclusions can be drawn with regard to the economic mineral potential of the property although several interesting magnetic expressions have been noted.

Further magnetic surveying should be done to determine the extent of the single line anomalous responses. Geological mapping will aid the interpretation of the magnetometer survey and should be done. Other geophysical surveys might complement the magnetometer survey as a means of determining probable drill targets.

Respectfully submitted,

Wallace Ng-See-Quana

Wallace Ng-See-Quan.

CERTIFICATE

This is to certify that I, Wallace Ng-See-Quan

- 1) graduated in 1973 from The University of Toronto, Toronto Ontario with a B.A. Sc. in Geological Engineering;

- 2) have been practicing my profession as an exploration geologist for one year.

Toronto, Ontario
August 16, 1974

Wallace Ng-See-Quan
Wallace Ng-See-Quan



11145W0023 0019A1 HESS

900 Natural Resources

File 2.1668



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED

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.

DEC 3 1974

PROJECTS UNIT

Type of Survey(s) Line cutting, Ground magnetometer
 Township or Area Hess Township
 Claim Holder(s) St. Joseph Explorations Ltd.
 Survey Company St. Joseph Explorations Ltd.
 Author of Report Wallace Ng-See-Quan
 Address of Author 90 Eglinton Ave. W., 5th floor, Toronto
 Covering Dates of Survey May 21/74 - July 20/74
 (linecutting to office)
 Total Miles of Line Cut 18.6

MINING CLAIMS TRAVERSED		
List numerically		
	MAG	
S	✓	378055
(prefix)		(number)
S	✓	378056
S	✓	378057
S	✓	378058
S	✓	378059
S	1/3 Nc	378060
S	✓	378061
S	✓	378062
S	✓	378063
S	✓	378064
S	✓	378065
S	✓	378066
S	1/3 Nc	378067
S	3/4 Nc	378068
S	1/3 Nc	378433
S	✓	378434
S	3/4 Nc	378435
S	✓	378436
S	✓	378437

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	<u>40</u>
-Radiometric	
-Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
 ENTER 20 days for each additional survey using same grid.

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

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

DATE: August 16/75 SIGNATURE: Wallace Ng-See-Quan
 Author of Report or Agent

LD

Res. Geol. _____ Qualifications on this file

Previous Surveys

File No.	Type	Date	Claim Holder
	<u>Nil</u>		

area of claims not covered: $2\frac{1}{2}$
 $40 \times 19 = 760 - (19 \times 2) = 36 \text{ days}$

TOTAL CLAIMS 19

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 786 Number of Readings 923

Station interval 100' with 50' where required Line spacing 300'

Profile scale

Contour interval 500 gammas 0 to 1000 gammas, 1000 gammas 1000 gammas

MAGNETIC

Instrument Scintrex MF-2 Fluxgate magnetometer

Accuracy - Scale constant 10 gammas

Diurnal correction method Tie in to base stations at 300' intervals on baseline

Base Station check-in interval (hours)

Base Station location and value Not tied to regional base station

ELECTROGEOPHYSIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line

Frequency (specify V.L.F. station)

Parameters measured

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

Instrument

Method [] Time Domain [] Frequency Domain

Parameters - On time Frequency

- Off time Range

- Delay time

- Integration time

Power

Electrode array

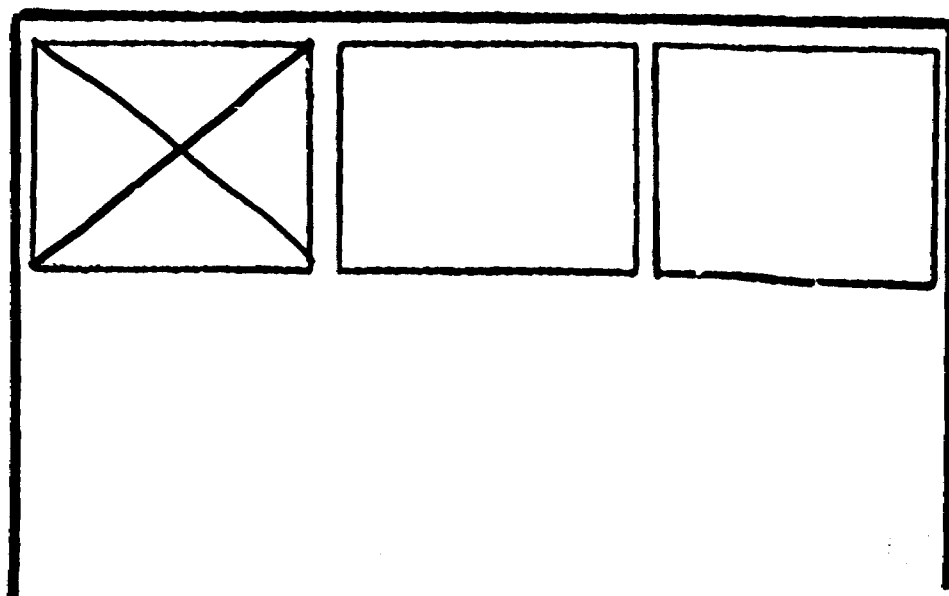
Electrode spacing

Type of electrode

RESISTIVITY

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
HESS-0019-A1 #1

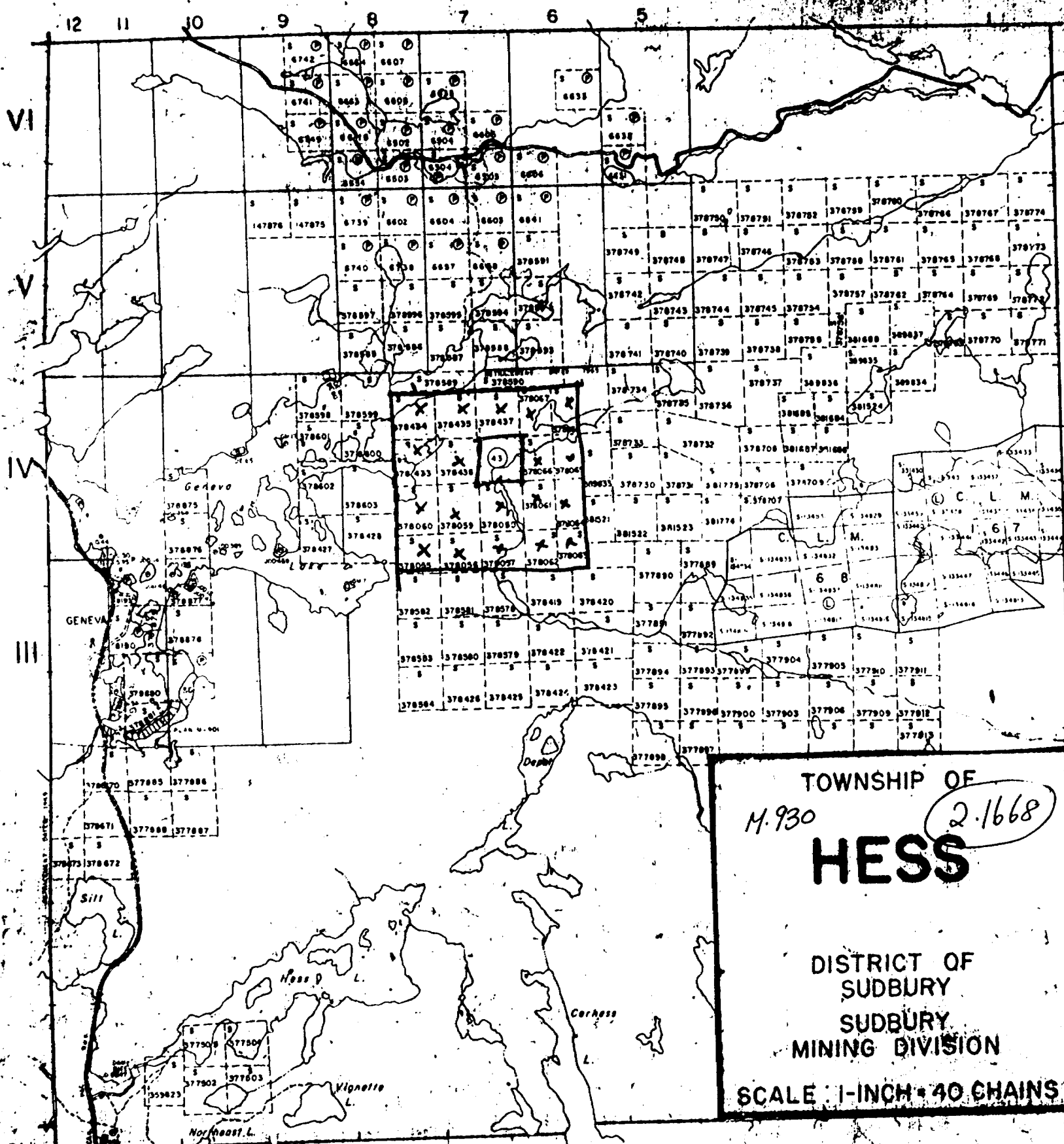
LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



LESTER TWP. M. 928

MONCRIEFF TWP. M. 869

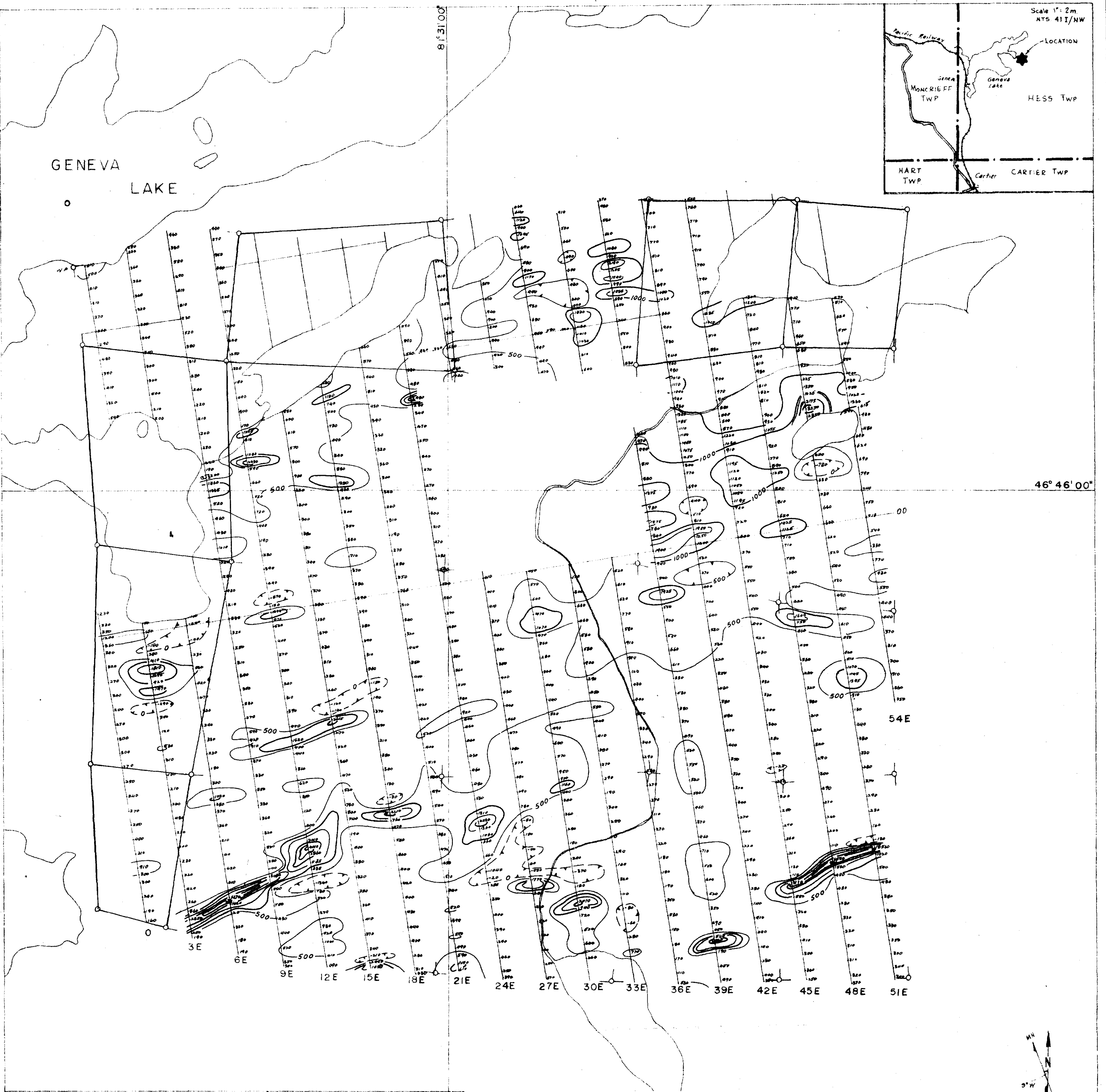
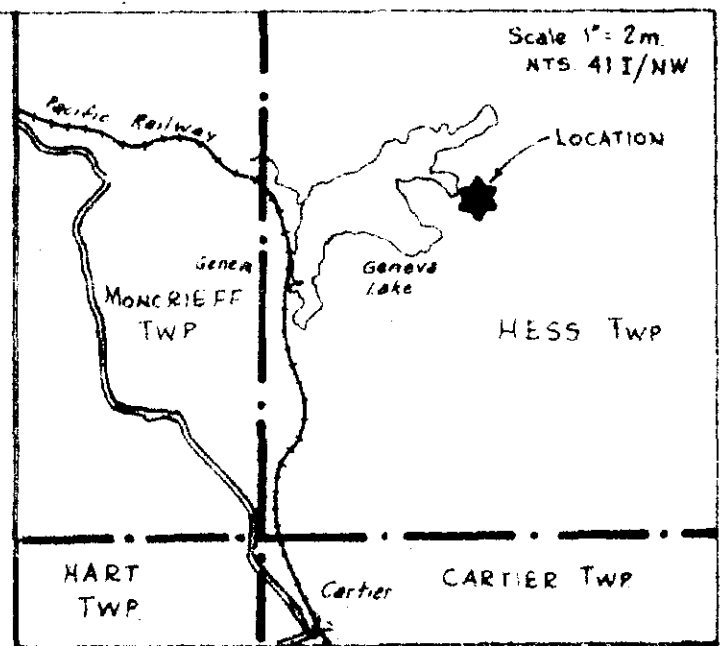
HARTY TWP. M. 920



TOWNSHIP OF
 M. 930
 2.1668
HESS
 DISTRICT OF
 SUDBURY
 SUDBURY
 MINING DIVISION
 SCALE: 1-INCH = 40 CHAINS

CARTIER TWP. M. 704

HART
TWP. M. 819



46° 46' 00"

- LEGEND**
- 1000 gammas
 - 500 gammas
 - 0 gamma
 - Depression

CLAIM NUMBERS

5	5	5	5	5	5
378034	378035	378037	378047	378048	
5	5	5	5	5	5
378043	378043	378043	378064	378064	
5	5	5	5	5	5
378060	378059	378058	378061	378064	
5	5	5	5	5	5
378055	378056	378057	378061	378061	

DRAWING RECORD & STATUS				
NO.	DATE	NAME	DESCRIPTION	REVISION NO.
1	Aug 74	W.N.S.R.	Base map	

ST. JOSEPH EXPLORATIONS LIMITED
TORONTO, CANADA

Wallace N. S. R.

**Hess Twp
GENEVA LAKE**
GROUND MAGNETOMETER SURVEY
(VERTICAL FIELD)

SCALE 1" = 400'

APPROX LAT & LONG OF LOWER RT COR OF DWG
N 46° 46' 00" LATITUDE
W 1001° 00' 00" LONGITUDE

PROJECT NO. 150 SHEET NO. 1
REPORT NO. NTS 411/NW