



41113SE0015 0012 MUNSTER

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Report on the

MAGNETIC SURVEY
BARRY-HOLLAND GROUP

Claims (S-56796 to S-56799 inclusive
S-56800 to S-56817 inclusive)

Munster and Ross Townships

Sudbury Mining Division, Province of Ontario

by

F.C. Knight, B.Sc.
Mining Engineer

Toronto, Ontario

July 26, 1961.

LEWIS-HOLLAND CLAIM GROUP
Manster and Hess Townships
Sudbury Mining Division Ontario

MAGNETIC SURVEY

SUMMARY

In the period from May 24th to July 20th, 1951, a magnetic survey was conducted on a portion of the group consisting of Claims S-56800 to 56802, S-56804 to 56807 and 56795 to 56799 inclusive, in Manster Township, Ontario.

A total of 1355 survey stations were established where magnetic readings were taken.

The survey partially outlined two magnetic bodies, whose indicated surface area where magnetic attraction of 80° or more has been established, is some 37,200 square feet. It is believed the magnetic area of the east body could be enlarged by up to 8,000 square feet were it possible to obtain magnetic readings to the northeast under a small lake.

At the eastern limit of the survey, and bounded on the west by line 6400 (south), a substance believed to be the result of the oxidation of iron bearing minerals was noted over a considerable expanse.

RECOMMENDATIONS

The following recommendations are based on the results indicated in the work recently completed:

1. Claims S-56804, 56805, 56807, 56806, 56797 and 56798 should be abandoned as they appear to offer no further economic interest.
2. The area east of line 6400 (south) should be thoroughly prospected by following upstream against the general drainage flow in search of the source of the iron oxides noted during the survey. Prior to this an

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investigation should be made of any available drainage maps of the area in order to eliminate the possibility of such drainage having its origin on the property of Geneva Lake Mines Limited, adjoining to the south. Should it be possible to eliminate this, there would then be the strong suggestion of the presence of a sulphide mass in the immediate vicinity. Such deposits are of interest in the Sudbury area because of the associated nickel and copper possibilities.

3. A limited amount of stripping and back trenching on the magnetic bodies outlined in the work recently completed to expose the magnetic material. Following this bulk samples of the material should be recovered and arrangements attempted with the most accessible steel industries to test the material as against their ore requirements.

Any further work should be based upon the results obtained from carrying out the above recommendations.

Respectfully submitted,

F. C. Knight, B.Sc., P. Eng., Ontario.

PROPERTY

The property consists of a contiguous group of twenty-eight unsurveyed and unpatented claims numbered S-56796 to S-56799 inclusive, and S-56800 to S-56817 inclusive, comprising approximately 1120 acres.

LOCATION

The claims are situated in the south-central part of Munster Township and the north-central part of Hess Township and straddle their common boundary. The group adjoins to the north and east of the property of Geneva Lake Mines Limited. The area is located some forty-five miles northwest of the town of Sudbury.

ACCESS

Access to the property is by automobile, a distance of some fifty-five miles from Sudbury with a passable road located within three miles of its western limits. A second means of transport is available by Canadian Pacific Railway from Sudbury to Benny Station some six miles south of the property and thence by road to within three miles of its west boundary.

At the present time some construction is being carried out on a road which should pass within one-half mile of the southeast corner of the group.

HISTORY

The past history of the claim group is unknown. However, considerable work has been done on deposits of magnetic material on claims S-56796 and S-56800 and the existence of a few deep pits and shafts, and at least one tunnel in a hillside, have been observed. No records of this work appear to be filed with the Department of Mines.

PURPOSE OF THE SURVEY

The survey was conducted in an endeavour to outline strongly magnetic areas thought to contain a high magnetite content, and known to be situated on the claim group.

METHOD

That section of the property on which the survey was conducted was covered by a grid system consisting of a base line starting at the north-west corner of claim B-56804 and out in a southeasterly direction for a distance of some 5400 feet. Picket lines spaced 400 feet apart were turned off at right angles to the base line and out to the property boundaries in both directions for the first 3800 feet of base line and then southwesterly, only, for the remaining distance. All lines were chained and marked pickets placed at 100-foot intervals.

Instrument readings in connection with the survey consisted of taking magnetic readings at 50-foot intervals on all lines and in the more highly magnetic areas a closer detail was had by cutting intermediate lines 100 feet apart and taking readings at 25-foot intervals on the lines.

All instrument readings were plotted on a plan of a scale of 1 inch equals 200 feet. Magnetic contours were plotted on the above plan at intervals of 10 degrees of vertical intensity except in areas where they were indicated to be erratic and consistently on the low side. Topographical features observed were plotted on the plan as a possible aid to the interpretation and later work.

GEOLOGY

Although no geological survey has been conducted, outcrops observed in the area covered in the report, consisted almost entirely of massive granites

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intruded by diabase dykes and stocks, and the property is believed to be generally underlain by these rock types. A mass of intrusives and lava flows of apparent limited extent was noted on the base line between 3,000 and 3,800 feet southeast, on line 3600 for a few hundred feet south of the base line and north of the base line in this vicinity, at least as far as the beaver pond. The magnetic deposits located during the survey appear to be associated with these rocks. Structurally these rocks are greatly contorted and folded.

TOPOGRAPHY

The terrain is generally rugged in the outcrop areas which constitute at least one third of the group. The remainder consists of low, flat areas partially flooded due to water backed up by the many beaver dams along the creeks.

RESULTS

The magnometric survey shows that there is a considerable magnetic attraction around the previous workings near the common intersection of claims B-56795, 56796, 56799 and 56800. In this section, two detached areas are found to have a magnetic attraction of 60° or more. The surface areas covered by these are as follows:

| | <u>Dimension</u> | <u>Area on surface</u> |
|--------------|------------------|------------------------|
| West deposit | 60' x 340' | 20,400 sq. ft. |
| East deposit | 140' x 120' | <u>16,800</u> sq. ft. |
| Total | | 37,200 sq. ft. |

The westerly deposit appears limited in lateral extent to the northeast as only low values were obtained in the area on strike of this deposit, to the north of the creek. The east deposit has been delimited to the south, but due to the presence of the beaver pond and flooded condition

to the northeast, it was not possible to obtain readings to delimit the deposit in this direction. However, the outline of the deposit suggests that its area might be increased by 50% in this direction.

A third magnetic area to the southeast, on line 5200 east, indicated readings as high as 48° vertical. These were obtained on a large diabase outcrop where conditions could be observed and it is believed that this anomaly area is of no further interest.

In the low area bounded on the west by line 5400 (south), a considerable amount of a slime-like substance, believed to be due to the oxidation of iron bearing minerals, was observed coating the local vegetation at water level.

Respectfully submitted

F. C. Knight, B.Sc.
Mining Engineer.

Toronto, Ontario
July 26, 1951.

November 12, 1951

G. V. BARRY CLAIMS

A P P E N D I X
S U M M A R Y O F A S S E S S M E N T W O R K

| | <u>Equivalent 8 Hour Man Days</u> |
|--|---------------------------------------|
| Line Cutting and chaining | 248 |
| Dip Needle Survey | 192 |
| Draughting, interpretation and reports | <u>40</u> |
| Total | 480 |

Requirements to cover assessment work of 12 claims
numbered S-56795, 96, 97, 98, 99, 56800, 01, 02;
56804, 05, 06, and 07. (12 claims @ 40 days each) = 480 days

Line Cutting & Chaining (May 24 - July 1st)

| <u>Man Days</u> | <u>Hrs. per Day</u> | <u>Total Hours</u> | <u>Factor</u> | <u>Total Hours x Factor</u> | <u>Equivalent 8 hr. days</u> |
|---------------------|-------------------------|------------------------|---------------|---------------------------------|----------------------------------|
| 62 | 8 | 496 | x 4 | 984 | 248 |

- G.V. Barry - 10 days (chairman)
- J. Holland - 10 days (chairman)
- L. Riopelle - 18 days (line cutter)
- B. Brchart - 12 days (line cutter)
- T. McNichol - 12 days (line cutter)

| | | | | | |
|---------------------------------------|---|-----|-----|------|-----|
| <u>Dip Needle Survey (field work)</u> | | | | | |
| 48 | 8 | 384 | x 4 | 1536 | 192 |

- G.V. Barry - 12 days (inst. operator)
- F.O. Knight - 12 days (inst. operator)
- L. Riopelle - 12 days (asst.)
- J. Holland - 12 days (asst.)

November 12, 1951

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Summary of Assessment Work (continued)

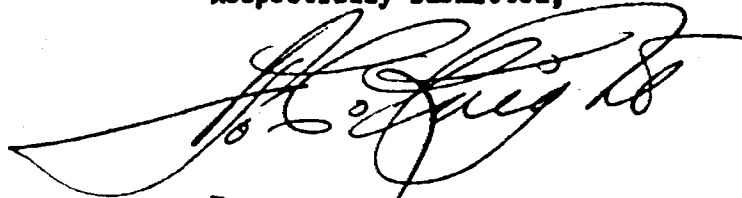
G. V. BARRY CLAIMS

Draughting Interpretation and Report

| <u>Total Hours</u> | <u>Factor</u> | <u>Total Hours x Factor</u> | <u>Equivalent 8 hr. days</u> |
|--------------------|---------------|---------------------------------|----------------------------------|
| 80 | 4 | 320 | 40 days |

J. Holland - 18 Temple Ave., Toronto
G. V. Barry - 18 Temple Ave., Toronto
L. Riopell - Calabogie, Ontario
B. Brohart - Calabogie, Ontario
T. McNichol - Benny, Ontario
F.O. Knight - 1406, 330 Bay St., Toronto

Respectfully submitted,



F. O. Knight.

FCK/g

EMO TWP.
22 M.

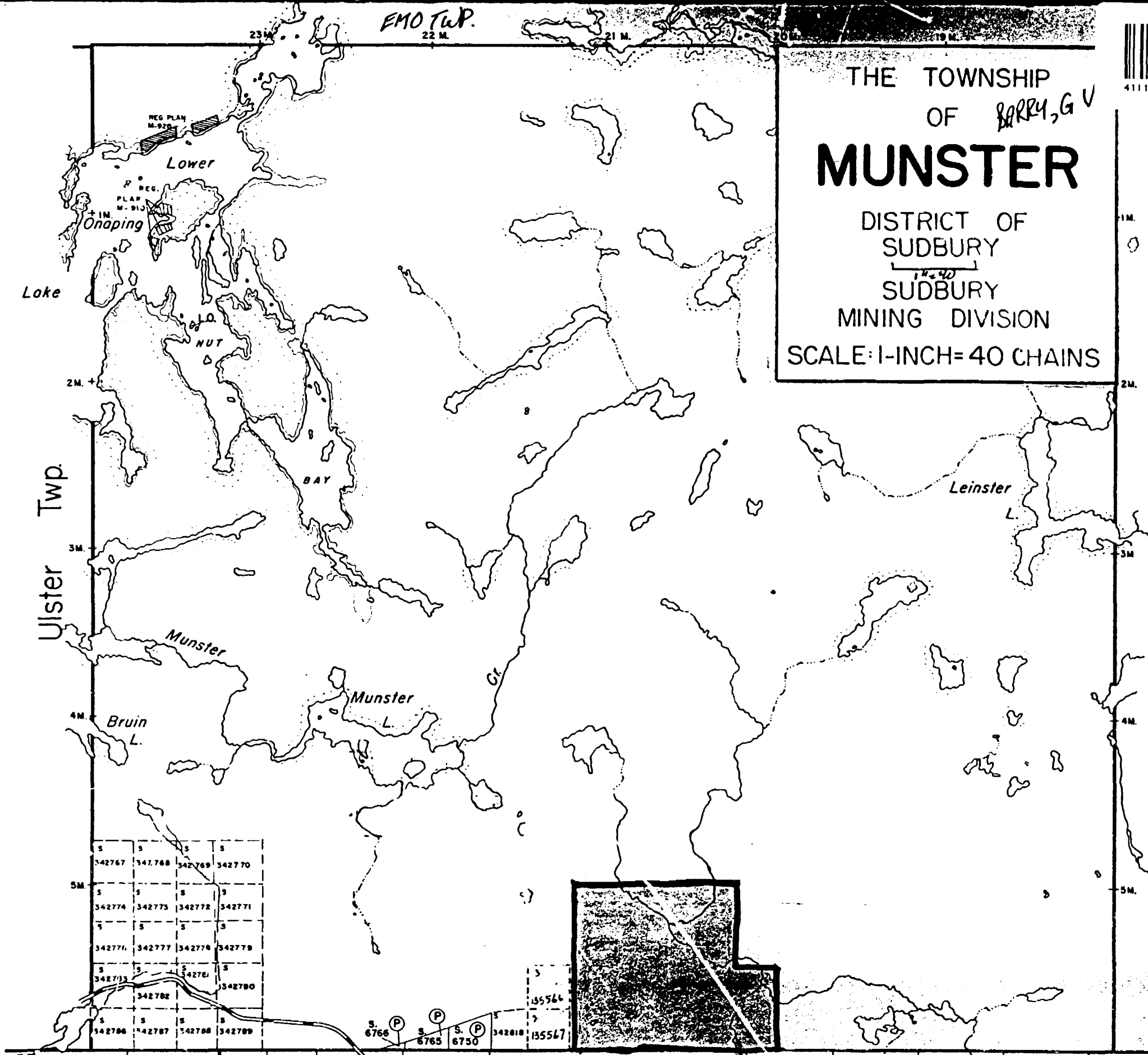


41113SE0015 0012 MUNSTER

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THE TOWNSHIP
OF *BARRY, G V*
MUNSTER

DISTRICT OF
SUDBURY
14-90
SUDBURY
MINING DIVISION
SCALE: 1-INCH=40 CHAINS



Leinster Twp.

Moncrieff Twp.

Hess Twp.

| | | | |
|--------|--------|--------|--------|
| 3 | 5 | 5 | 5 |
| 342767 | 342768 | 342769 | 342770 |
| 5 | 5 | 5 | 5 |
| 342774 | 342775 | 342776 | 342777 |
| 5 | 5 | 5 | 5 |
| 342771 | 342772 | 342773 | 342774 |
| 5 | 5 | 5 | 5 |
| 342778 | 342779 | 342780 | 342781 |
| 5 | 5 | 5 | 5 |
| 342782 | 342783 | 342784 | 342785 |
| 5 | 5 | 5 | 5 |
| 342786 | 342787 | 342788 | 342789 |

S. 6766
S. 6765
S. 6750

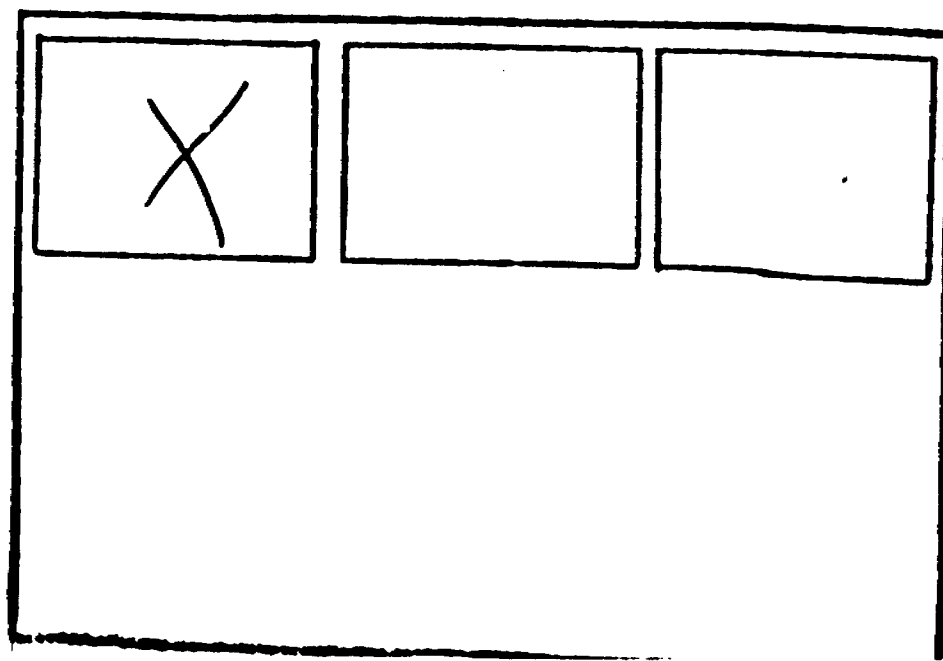
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35567

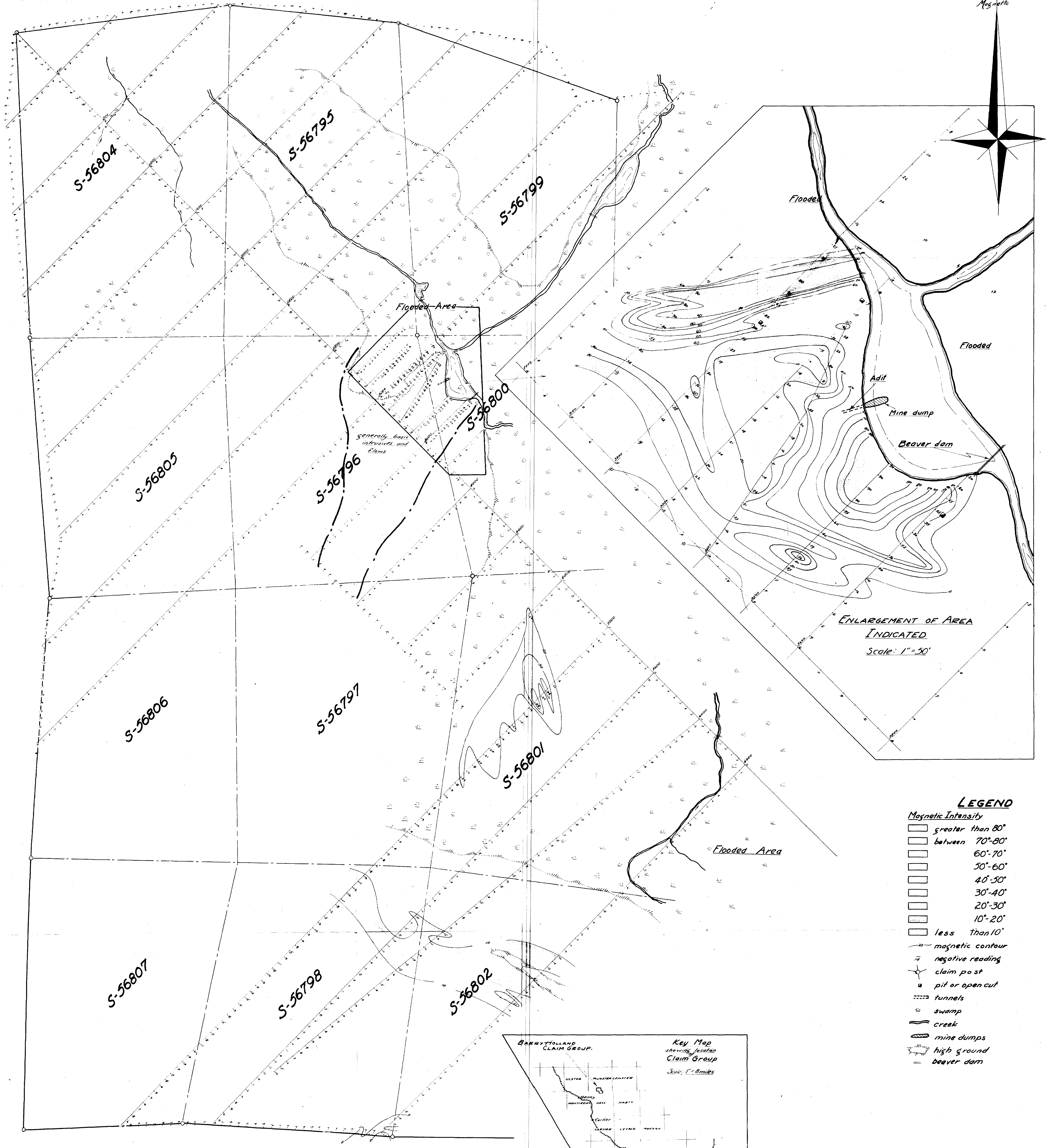
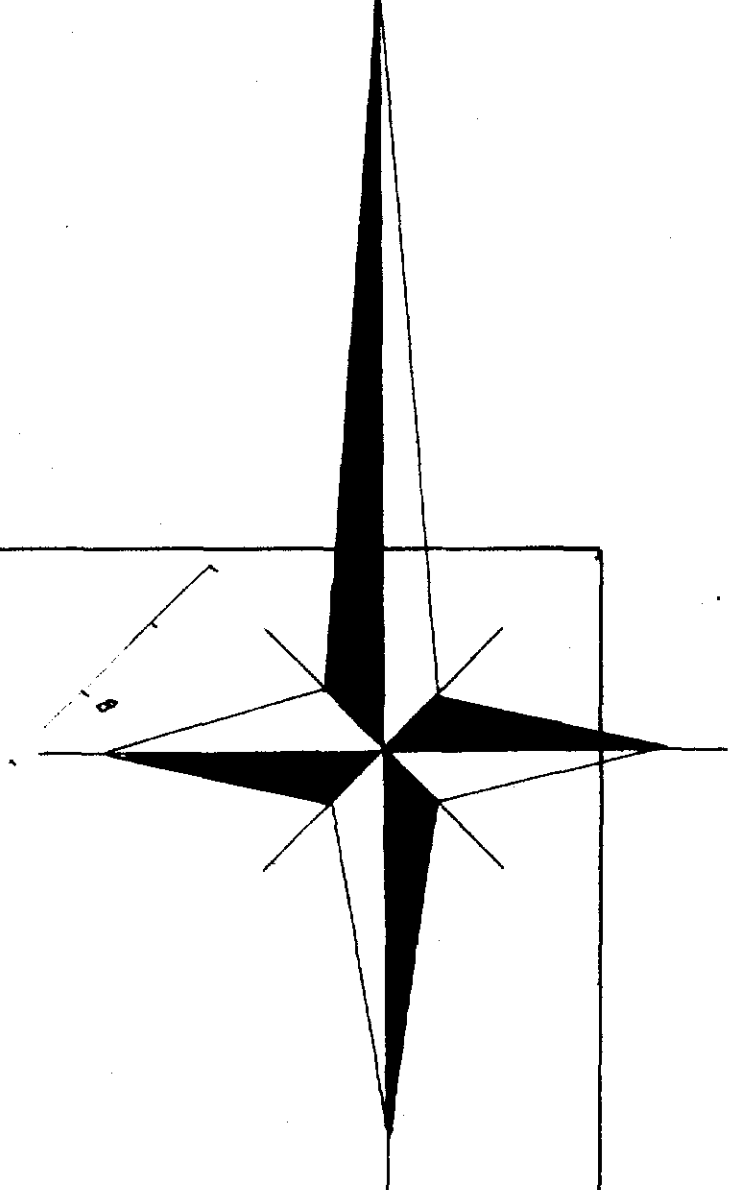
2 1 12 11 10 9 8 7 6 5 4 3 2 1

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

MUNSTER - 0012 #1

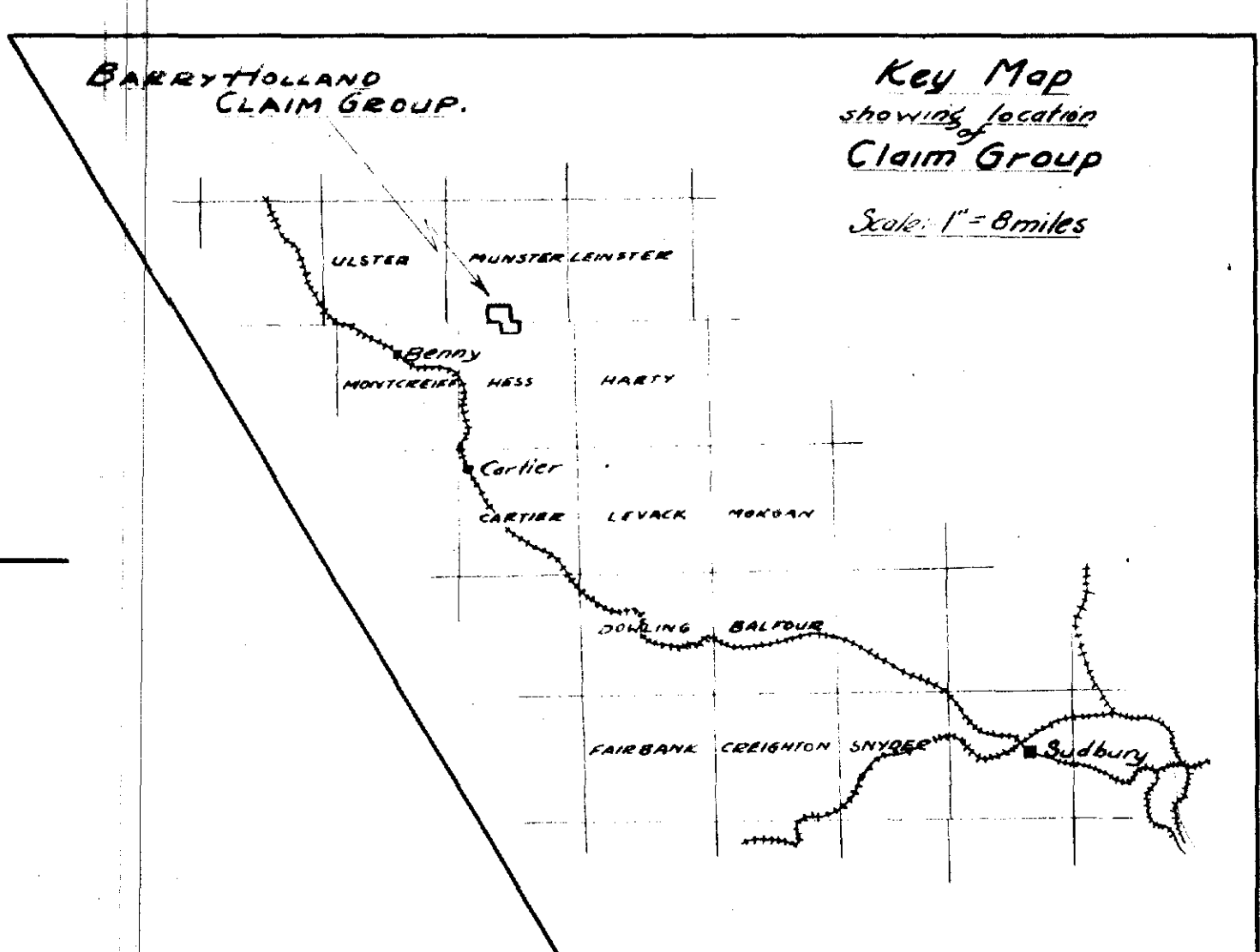
LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)





LEGEND

- Magnetic Intensity**
- greater than 80°
 - between 70°-80°
 - 60°-70°
 - 50°-60°
 - 40°-50°
 - 30°-40°
 - 20°-30°
 - 10°-20°
 - less than 10°
- - - magnetic contour
 - - - negative reading
 - ⊙ claim post
 - ⊙ pit or open cut
 - ⋯ tunnels
 - ⊙ swamp
 - ~ creek
 - ⊙ mine dumps
 - ⊙ high ground
 - ⊙ beaver dam



BARRY-HOLLAND CLAIM GROUP
TOWNSHIP OF MUNSTER - SUBURBY MINING DIVISION
PROVINCE OF ONTARIO

MAGNETIC SURVEY PLAN

Scale - Feet