



32D04SE0064 2.1102 MCVITTIE

010

Magnetometer Survey

Magnetometer Survey

2-1102
MAGNETOMETER SURVEY

RECEIVED

Claims L319198 & 319199

DEC 27 1972

PROJECTS
SECTION

Introduction

The two unpatented mining claims are located in Hearst and McVittic Townships just north-east of the Town of Larder Lake, District of Temiskaming. The property is easily accessible from highway no. 66 which runs along the west side of the claims, or by an extension of second avenue of Larder Lake which runs along the south boundary to the former Raven River mine. The claims form part of a much larger block of claims on which geophysical work is still in progress.

The claims are underlain by Algonian intrusives and Temiskaming sedimentary rocks with basic volcanics along the eastern boundary. This is believed to form the western flank of a volcanic centre which exists at the old Raven River mine about $\frac{1}{2}$ mile to the east.

Gold mineralization was discovered in syenite bodies before 1940 and considerable old trenching and diamond drilling is in evidence. A shaft was sunk on claim L319198 before 1940 and extended to some 790 feet in 1946. Records for most of this work could not be located by the writer.

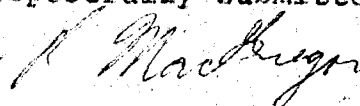
Survey procedure.

A Base line was laid out approximately north-south (magnetic) from the Raven River road to the north boundary, chained and picketed every 100 feet. Cross lines were cut east and west every 400 feet or less and also chained and picketed every 100 feet. Roadways were also chained and picketed. Readings were taken every 100 feet along the picket lines with a Sharpe MF-1 magnetometer. Station 1 + 00N on the Base Line was used as a base station and re-read at the end of each traverse. No correction for diurnal drift was applied as it was negligible.

Results and Conclusions

The magnetic contour plan shows a north-south trend to the formations as was to be expected. A small area of quite high readings in the south-west corner of L319199 is due to a band of iron formation. The + 1500 gamma contour line appears to approximately outline the basic volcanics on the east side of the claims. An area of negative readings in the central part of the claims may outline the syenite areas in which most of the gold mineralization occurs. This could serve as a guide to exploration for additional mineralized syenite bodies.

Respectfully submitted.



R.A. MacGregor, P.Eng.
December 19, 1972

References

1/ O.D.M. Vol. 50, part 7, 1941 "Geology of McGarry and McVittie Townships"

2/ O.D.M. Vol. 56, part 8, 1947 "Geology of Hearst and McFadden Townships"

I, Robert A. MacGregor, certify

1/ I am a Mining Engineer residing at 134 Palace Dr. Sault Ste. Marie, Ontario

2/ I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.

3/ I am the recorded holder of the mining claims in this report and personally supervised the field work.

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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 119 Number of Readings 119

Station interval 100 ft.

Line spacing 400 ft. or less

Profile scale or Contour intervals .500 gammas; 1000 gammas in high readings
(specify for each type of survey)

MAGNETIC

Instrument Sharpe MF-1

Accuracy - Scale constant 20 gammas on lowest scale

Diurnal correction method _____

Base station location Sta 1 + 00 N on Base line

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 _____

053.M

053.M

MCVITTIE 16

MCVITTIE 16

053.M

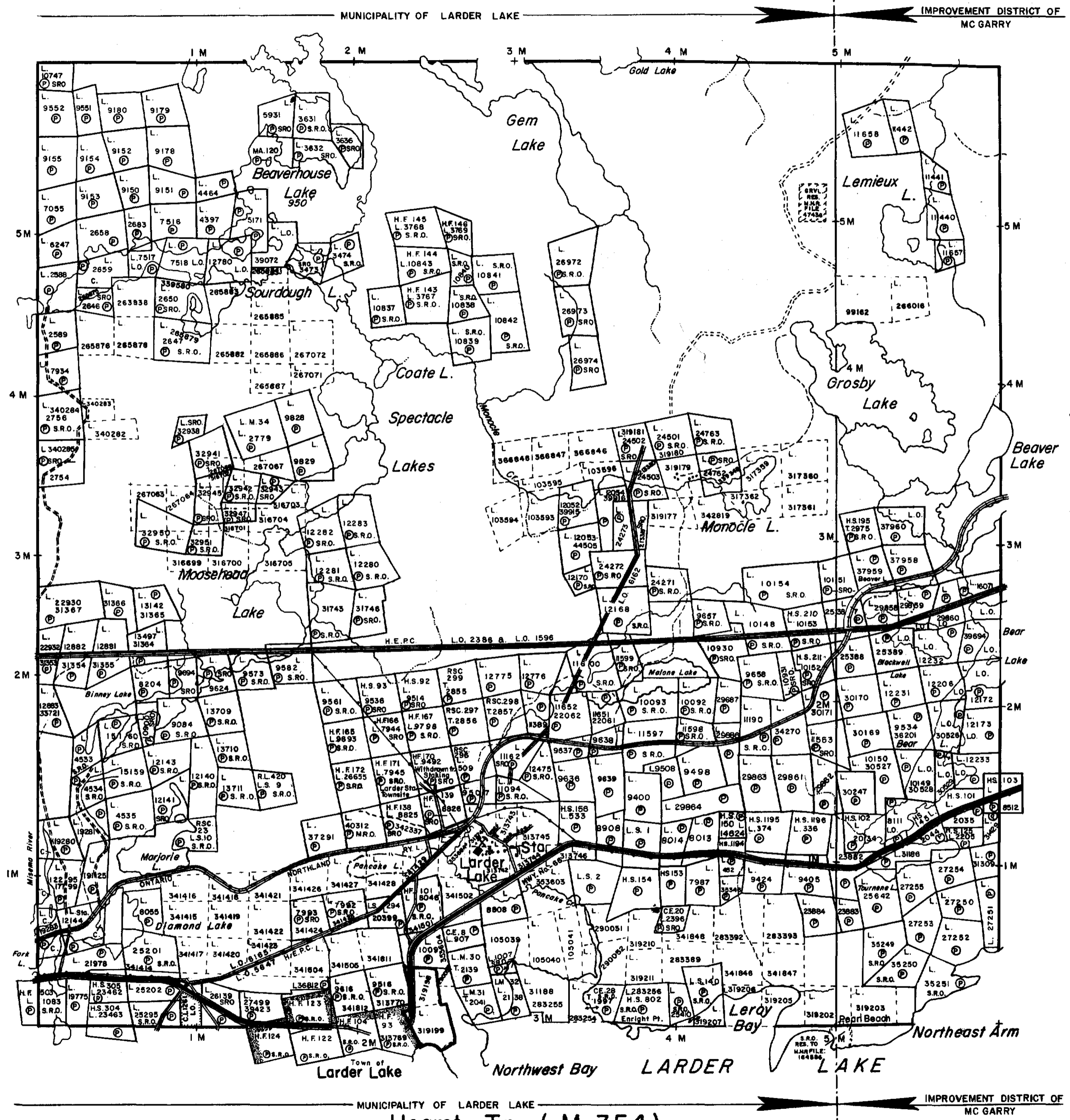
053.M

Katrine Tp. (M. 357)

Gauthier Tp. (M. 350)

McGarry Tp. (M. 369)

Hearst Tp. (M. 354)



THE TOWNSHIP OF

McVITTIE

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATD LAND ● or ⊙
- CROAND SALE C.S.
- LEA: ⊙
- LOC LAND Loc.
- LIC OF OCCUPATION L.O.
- MINRIGHTS ONLY M.R.O.
- SUR RIGHTS ONLY S.R.O.
- ROA |||
- IMPD ROADS |||
- KINIGHWAYS |||
- RAIS |||
- POWINES |||
- MARR MUSKEG |||
- MIN C.
- CANED C.
- PATD S.R.O. ●

NOTES

40% FACE RIGHTS RESERVATION ALONG THE SH OF ALL LAKES AND RIVERS.

Stak mg. claims within the area shown thus down of Larder Lake - Subject to Sec.37(b) of Mining Act (R.S.O. 1970)

DATE OF ISSUE

JAN 2 1973

ONT. DEPT. OF MINES AND NORTHERN AFFAIRS

PLAO. M.370

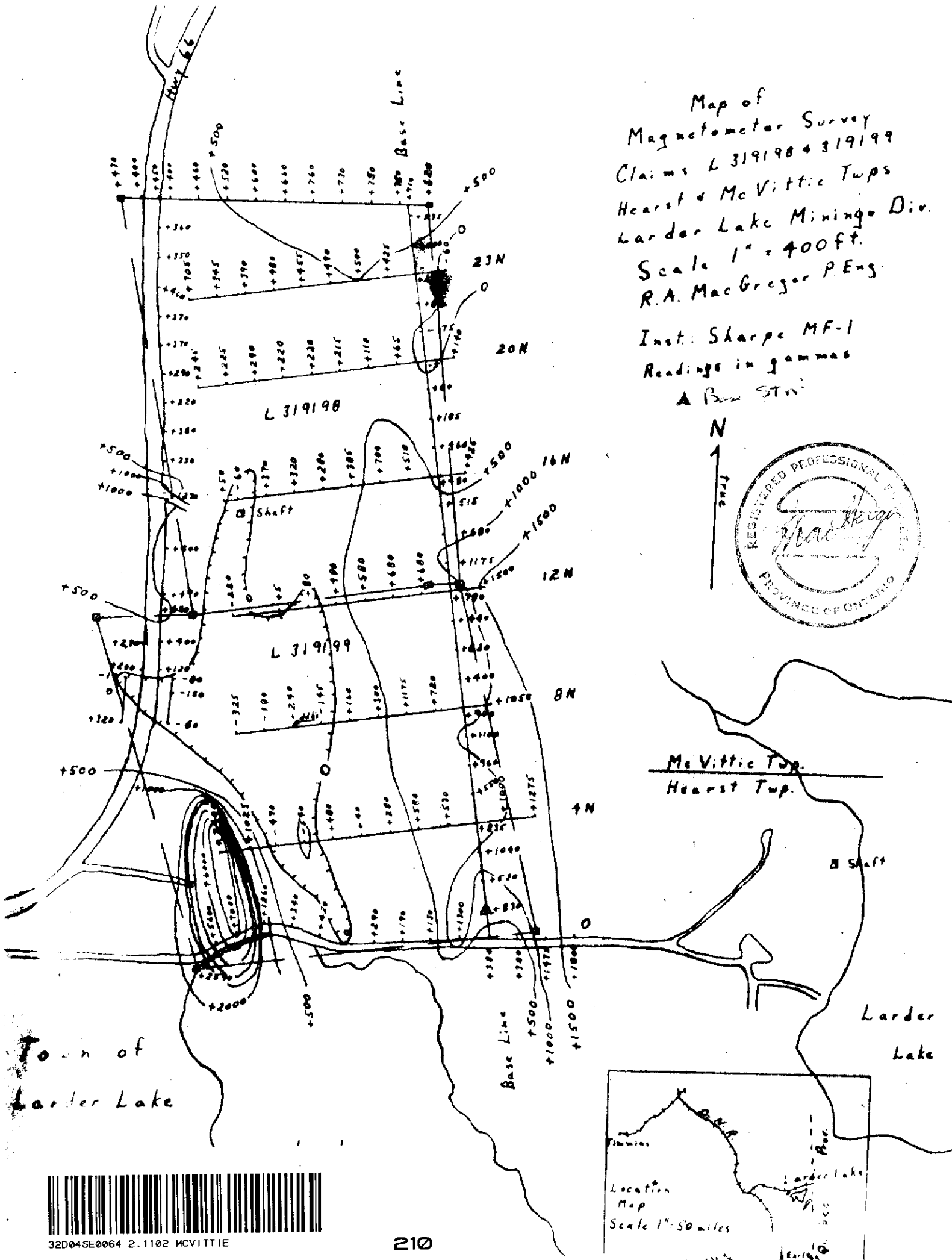
MINISTRY OF NATURAL RESOURCES ONTARIO

2.1102



Map of
 Magnetometer Survey
 Claims L 319198 + 319199
 Hearst + McVittie Twp
 Larder Lake Mining Div.
 Scale 1" = 400 ft.
 R.A. MacGregor P. Eng.

Inst: Sharpe MF-1
 Readings in gammas
 A Base Stn

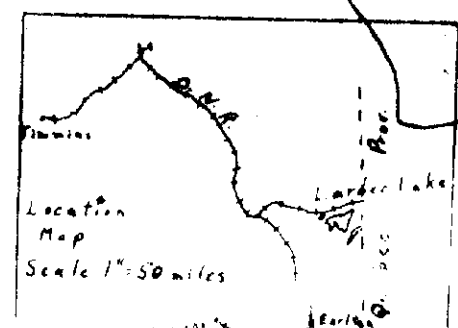


McVittie Twp.
 Hearst Twp.

B Shaft

Larder
 Lake

Town of
 Larder Lake



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