



32D04SE0276 2.2857 HEARST

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MINING LANDS SECTION

REPORT ON
ELECTROMAGNETIC SURVEYS
Hearst Township, Ontario

Introduction

Nine claims were surveyed by VLF-EM during March, 1978. The results are shown on the plan in the back pocket.

Location, Access and Ownership

The property is located in Hearst Township south and west of the deep bay which lies south-west of island CC in Larder Lake.

The claims are numbered L446630, L446633, L446634, and L446636 to L446641 inclusive. They are recorded in the name of Colex Explorations Inc. and Sudbury Contact Mines Ltd.

Previous Exploration

A number of pits and trenches can be found on the property. Nothing is known of when this work was carried out or of any results obtained.

Geology

The area is mapped¹ as Temiskaming sediments cut by Algoman felsic to basic intrusives. There are volcanics and one large diabase dyke mapped in the south part of the claims.

1) O.D.M. Map No. 1947 - 1

Geology (Continued)

Small areas of ultramafic volcanic? rocks may be more widespread than current mapping would indicate.

Survey Procedure

On the nine claims a VLF-EM survey was run over lines at 400 foot intervals from a baseline at N45°E. The survey was run using the Cutler Maine (17.8 KHz) station. Readings were taken at 100 foot intervals using the procedure outlined in Appendix I.

Results and Conclusions

There are two main conductors on the claims. One runs across the central part of the claims. A second conductor runs across the north part of the claims. In addition there are several single or two line conductors. A number of the cross-overs coincide with cross-overs from a previously run survey using a north-south station (Annapolis).

The property lies north-east of known gold mineralization on the Martin-Bird Property. The conductors warrant further checking on the ground as they may represent shear zones of graphitic zones with associated gold mineralization.

Respectfully submitted



R.A. MacGregor, P.Eng.

November 30, 1978



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(s) Electromagnetic
Township or Area Hearst
Claim Holder(s) Colex Explorations
Sudbury Contact Mines Ltd.
Survey Company
Author of Report R.A. MacGregor
Address of Author 134 Palace Dr. SAULT STE. MARIE
Covering Dates of Survey March, November 1978
Total Miles of Line Cut

MINING CLAIMS TRAVERSED
List numerically
L446630 1/3 not covered
L446633
L446634
L446636
L446637
L446638
L446639
L446640
L446641
TOTAL CLAIMS 9

SPECIAL PROVISIONS
CREDITS REQUESTED
ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.
Geophysical
-Electromagnetic 20
-Magnetometer
-Radiometric
-Other
Geological
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Nov 30, 1978 SIGNATURE: R. MacGregor
Author of Report or Agent

Res. Geol. L.D. Qualifications 2, 1102 & on this file

Table with 4 columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 462 Number of Readings 462
Station interval 100' Line spacing 400'
Profile scale 1" = 40 degrees
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Crone Radem
Coil configuration N/A
Coil separation N/A
Accuracy +/- 1/2 degrees
Method: [x] Fixed transmitter [x] Shoot back [] In line [] Parallel line
Frequency Cutler Maine 17.8 KHz (specify V.L.F. station)
Parameters measured Dip angle of the resultant field

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

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

McVITTIE TWP. M-370

THE TOWNSHIP
OF

2-2857

HEARST

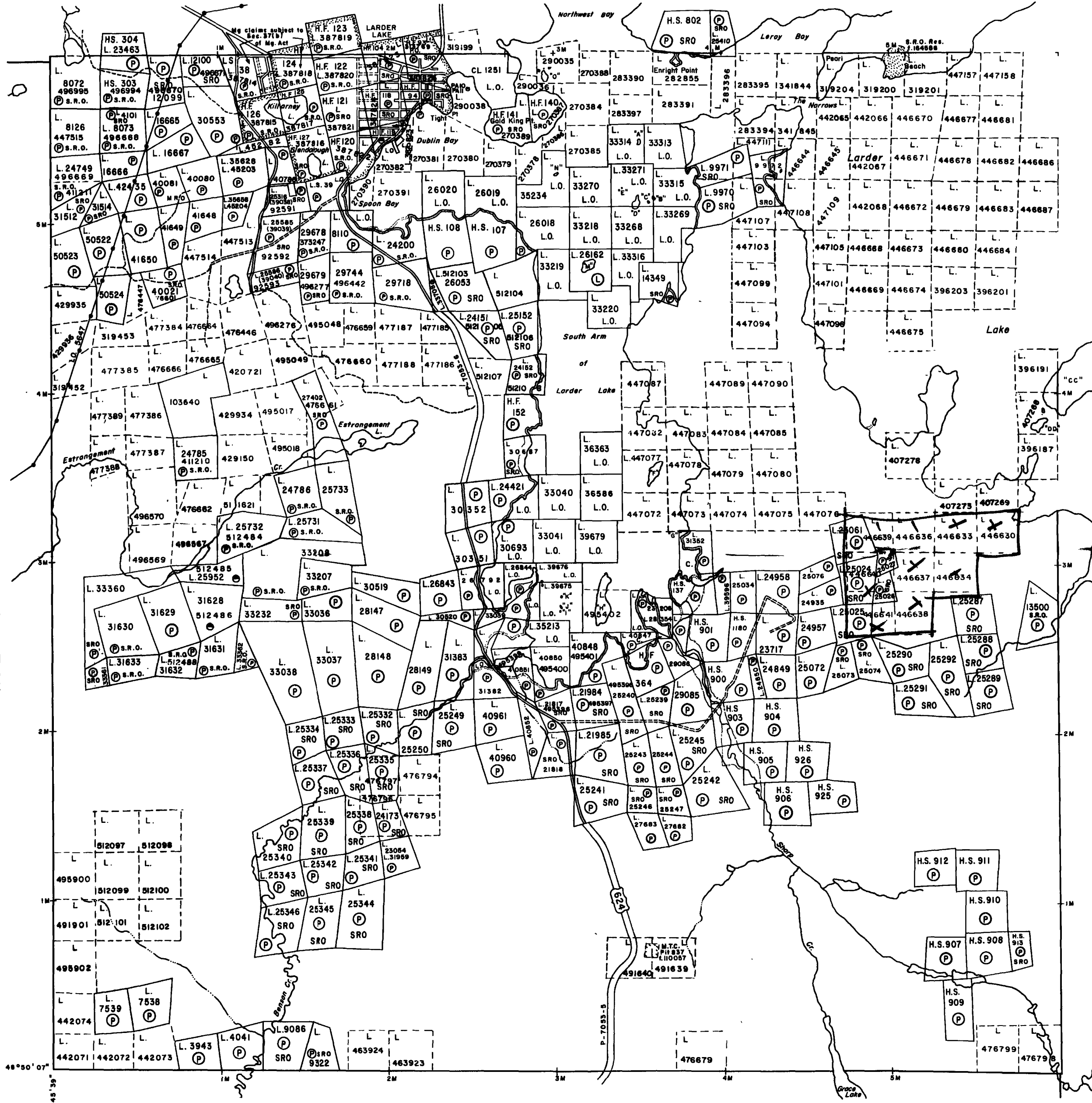
DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

MCELROY TWP. M-366

McFADDEN TWP. M-368



LEGEND

- PATENTED LAND ● or ⊕
- CROWN LAND SALE C.S.
- LEASES ⊕
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O.

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE. File: 129282.

Staking of mining claims within the Town of Larder Lake shown thus subject to Sec. 37(b) of the Mining Act (R.S.O. 1970).

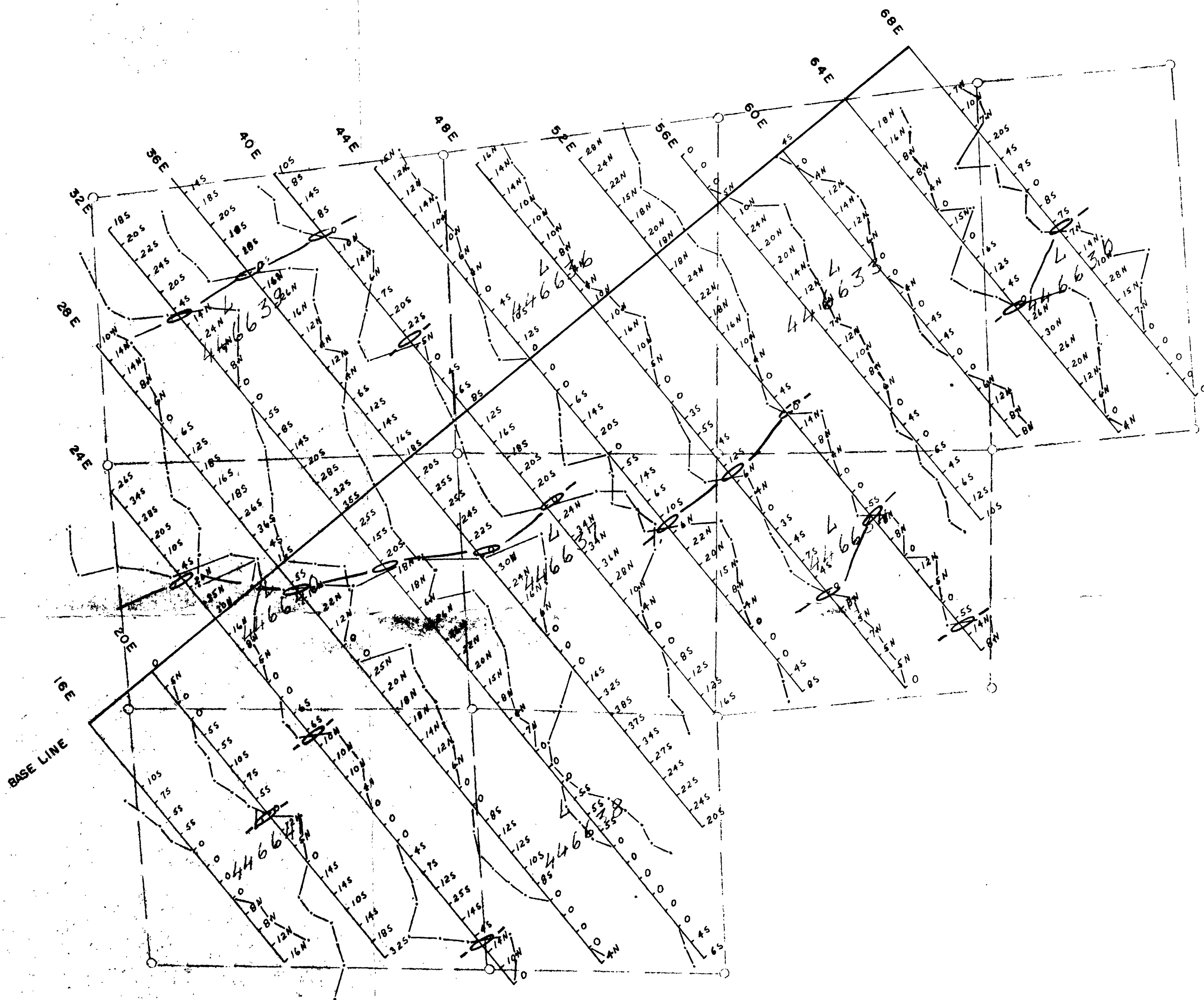
DATE OF ISSUE
DEC - 8 1978
SURVEYS AND MAPPING
BRANCH

PLAN NO. M-354

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

SKEAD TWP. M-387





VLF-EM SURVEY
 LARDER LAKE PROPERTY-HEARST TWP.

SCALE 1" = 400'
 1" = 40°

Station Cutler, Maine 17.8 KHz

Inst. - Crone Rodem
 Dip Angle of the Resultant Field in Degrees

