42A01SE0139 2.4600 OTTO

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MAR 5 1982
MINING LANDS SECTION

# REPORT ON GEOPHYSICAL SURVEYS

## JAMES D. REED PROPERTY

## EBY-OTTO-GROUP B

NTS: 42-A/1

Jomi Minerals & Expediting Ltd.

Tarzwell, Ontario

L.M.Dyment

February 20, 1982

42A01SE0139 2.4600 OTTO

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# LIST OF MAPS

EM profile map.....attached

EM Field Strength Contour map.....attached

Proton Magnetometer Contour map....attached

## INTRODUCTION

Electromagnetic (VLF) and Magnetic (Proton) surveys were carried out on this contiguous group of 15 claims in Eby and Otto townships, Larder Lake Mining Division, during November and December of 1981. The lines were cut during the summer of 1981, chained and picketed at 400' spacings and station intervals of 100'. The object of the ground surveys was to locate and delineate in more detail Airborne anomalies shown in the Ontario Geological Survey release of map P2268 in 1979.

## PROPERTY AND LOCATION

The property is located one mile east of the junction of Hwys 11 and 66 at Kenogami and ¼ mile south. The property is crossed by a Hydro line and touches on the Trans-Canada Pipeline at the western boundary. The claims are registered with the Ontario Dept. of Mines under the following numbers:

| EBY | | OTTO |
|---|---|---|
| 532930 | 532923 | 475258 |
| 532929 | 532925 | 475259 |
| 532928 | 532924 | 475261 |
| 532927 | 532922 | 475260 |
| 532926 | 532865 | |
| 532866 | | |

## GEOLOGY

The entire claim group on Government geology maps is shown to be within a large Gabbro-Diorite plug, first mapped as such by W.S. Dyer (1935) and shown as such on all Government maps since. Recent diamond drilling, ground and airborne geophysics, and prospecting point to a need for more detailed geological assessment.

## SURVEY METHOD AND INSTRUMENT DATA

The geophysical surveys were conducted over cut lines at 400' intervals. A base station was established at 2W on Bl.#2. The electromagnetic survey was carried out using a Crone Radem. Electromagnetic prospecting methods rely on the measurement of the secondary field generated by conducting bodies in the ground when subjected to a primary electromagnetic field. The Radem VLF method is a passive instrument operating in the very low radio frequency range (17.8-22.3Khz), which utilizes powerful radio transmitters at various locations the world as the source of the primary electromagnetic signal. The radiation from these transmitters con-

tains both electric and magnetic components which may energize sub-surface conductors which in turn will create secondary fields. In order to obtain maximum coupling with conductive zones, a transmitting station which is roughly on strike with the general geological structure should be selected. The VLF-EM system has proven to be an extremely useful mapping tool in locating faults, shear zones, geological contacts and other conductors due to massive sulphides and/or graphite, etc. Its limitations are more evident in areas of flatlying, highly conductive overburden material, where the relatively high EM frequencies may be severely attenuated, causing not only a loss of depth penetration but inaccurate conductivity estimates as well. Conversely, the high frequency has the advantage of being able to detect the more poorly conductive (disseminated) zones of mineralization which may not be seen with the lower frequency EM systems. In areas of relatively rough topographic relief, steep hills and valleys may give rise to cross-overs which are not necessarily due to changes in ground conductivity. These effects may be minimized by filtering the regional topographic trend from the VLF profiles, or, more simply, by contouring the field strength values obtained.

The magnetic readings were taken using a Barringer GM122 Proton Precession magnetometer. The instrument measures the total magnetic field intensity in gammas with an accuracy of 1 gamma. Corrections were made for diurnal variations and the readings plotted and contoured on an accompanying map.

RESULTS OF THE GEOPHYSICAL SURVEYS

The results of the surveys are shown on three separate maps: Dip Angle profile map; Field Strength Contour map; Magnetic Contour map. The scale of the maps is 200' to the inch. The axes of the conductive zones are shown and the high magnetics have been contoured to stand out.

Electromagnetic Observations

Conductor A — Conductor axis of 2400' with good magnetic correlation. Numerous pits and trenches noted in its vicinity and good outcrop exposure for prospecting along its length. AEM anomalies: A-line 5290 and F-line 52950

Conductor B — 800' in length and open to the east. outcrop at L2W 3S should be an aid in prospecting this conductor. The rest of the conductor lies in a low area to the west. AEM anomalies A-line 52920, A-line 52921, C-line 52910

Conductor C — A short conductor, possibly an extension of Conductor D, located in a low alder valley at base of hill. A trench was noted on line 10W 12S located 400' SW of the conductor which could prove to be an aid in prospecting. Poor field strength correlation.

Conductor D — 800' in length with good field strength, located in a low swampy area. No magnetic association or AEM and located at southern base of hill.

Conductor E — 2400' in length, located in an area of very low relief. Some magnetics flanking it to the north on lines 14E and 18E. Appears to be an extension of conductor M. Outcrop at 5S L22E could be useful in prospecting this. AEM anomalies A-line 52900, B-line 52890

Conductor F — 1600' in length. Good field strength for the entire length. Located in low cedar swamp. Flanked by magnetic anomalies south on line 22E and at western extremity. AEM A-line 52880

Conductor G — 1200' in length with good field strength. located entirely in a cedar swamp at base of hill. No AEM or Magnetic correlation.

Conductor i — Short one line conductor with poor field strength, flanked to the south by magnetic anomalies. Outcrop at 1N L18E could be useful in prospecting this.

Conductor J — Short one line conductor contained within magnetic high. Located in low flat alder. Fair field strength response. Possible continuation of conductor axis at end of L50E.

Conductor K — Conductor across 400' once again located in area of low relief. AEM anomalies A-line 52824, A-line 52820.

Conductor L — 800' in length, located in area devoid of outcrop. Good field strength. No magnetics except for small magnetic high 400' north on L58E. AEM anomalies B-line 52824, B-line 52820.

Conductor M — Note: all conductors on the property tend to have an east-west strike. M has a steeply striking SE character. This conductor has been drilled and the log states graphite with sulphides noted. No values were given. The conductor itself mostly lies within a low cedar, alder swamp. AEM anomalies A-line 52840, B-line 52840, D-line 52831, C-line 52820.

MAGNETIC OBSERVATIONS

The overall magnetics of the property are relatively flat, with the exception of areas as shown contoured on the accompanying map. The magnetics trend east to west and have very little correlation to the VLF conductor areas. The exception to this is in the northern part of the property from L41W to L6W. The areas of anomalous magnetics are all associated with outcrops and should prove easy to prospect.

CONCLUSION AND RECOMMENDATIONS

Numerous anomalous areas of conductivity and magnetics were mapped during the surveys which are noted within this report and shown on the accompanying maps.

The areas of interest should be thoroughly prospected and sampled where possible. Thought should also be given to having the claim group geologically mapped using the geophysical maps as an aid.

February 20, 1982

L.M.Dyment

# CERTIFICATE

I, Leslie Michael Dyment, residing in the township of Marquis, Ontario, and having a mailing address Jomi Minerals & Expediting Ltd., RR#1, Tarzwell, Ontario, do hereby certify:

(1) That I am a Mining Technician having taken the two year course at Haileybury School of Mines, Haileybury, Ontario,

(2) That I have been employed in all phases of mining exploration and developement for 20 years,

(3) That I did personally accumulate and set forth the facts and knowledge in the accompanying report and maps,

(4) That the accompanying report is true.

February 20, 1982
Tarzwell, Ontario

Leslie Michael Dyment

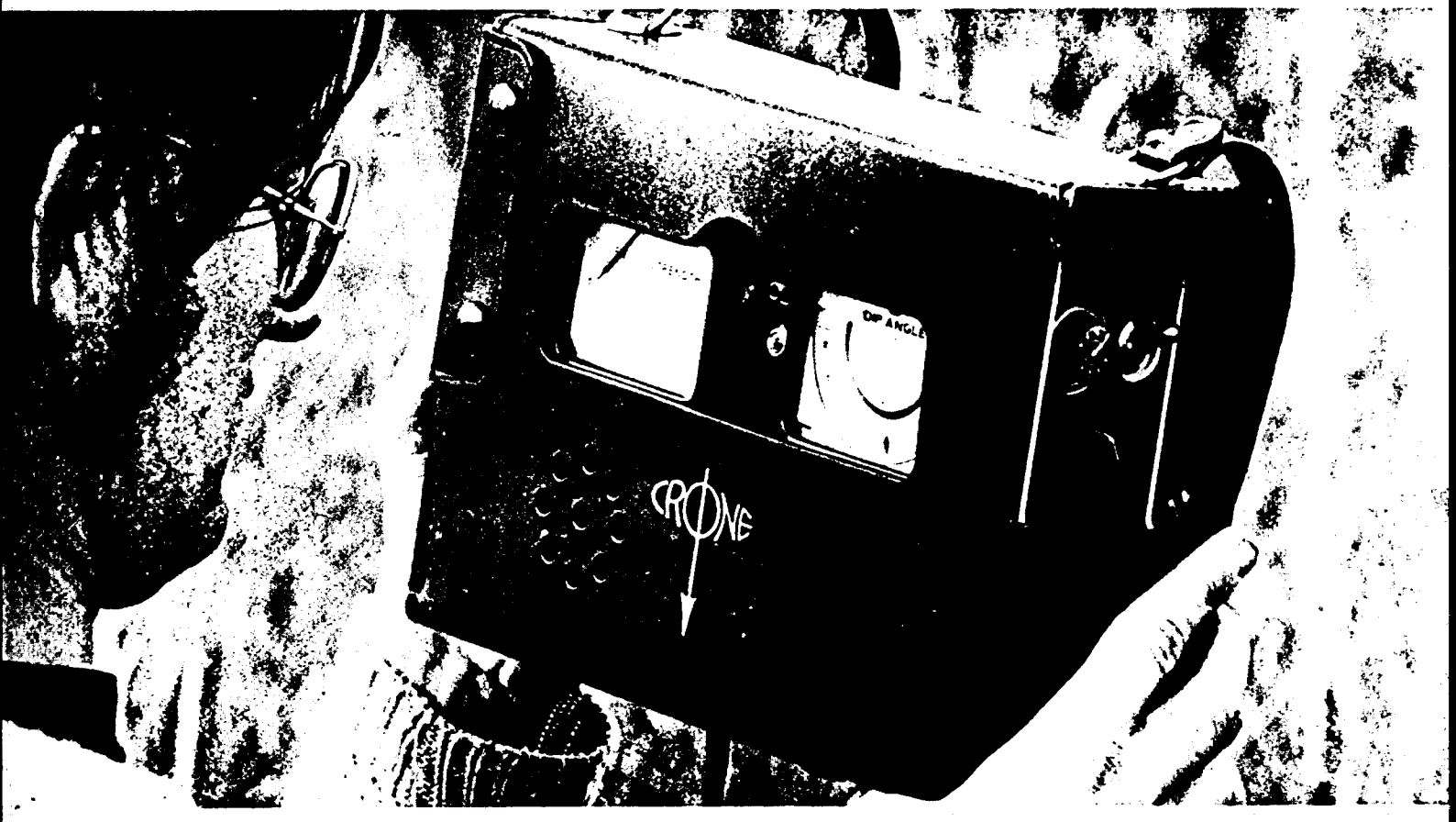
# CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA,
L5C 1V8

Phone: (416) 270-0096

Cable: CRONGEO, TORONTO


# ONE MAN EM




This is a rugged, simple to operate, ONE MAN EM unit. It can be used without line cutting and is thus ideally suited for GROUND LOCATION OF AIRBORNE CONDUCTORS and the CHECKING OUT OF MINERAL SHOWINGS. This instrument utilizes higher than normal EM frequencies and is capable of detecting DISSEMINATED SULPHIDE DEPOSITS and SMALL SULPHIDE BODIES. It accurately isolates BANDED CONDUCTORS and operates through areas of HIGH HYDRO NOISE. The method is capable of deep penetration but due to the high frequency used its penetration is limited in areas of clay and conductive overburden.

The DIP ANGLE measurement detects a conductor from a considerable distance and is used primarily for locating conductors. The FIELD STRENGTH measurement is used to define the shape and attitude of the conductor.

GROUND MAGNETOMETER

MODEL GM-122

## SPECIFICATIONS

| | |
|---|---|
| Range: | 20,000 to 99,999 in 12 ranges |
| Accuracy: | ± 1 γ through operating temperature range |
| Sensitivity: | 1 γ |
| Gradient Tolerance: | 600 γ/ft. |
| Power: | 12 "D" cells |
| Power Consumption: | < 50 Joules (Wsec) per reading |
| Polarizing Power: | 0.8 A @ 13.5 V for 1.5 sec. (3 second cycle)<br>0.8 A @ 13.5 V for 3 sec. (6 second cycle) |
| Number of Readings with 1 Battery Set: | 2,000 - 10,000 depending on type of batteries |
| Frequency of Readings: | 1 every 3 seconds<br>1 every 6 seconds |
| Controls: | Pushbutton switch<br>Range Selection switch - Slide switch for 3 and 6 sec. located on P/C Board |
| Output: | 5 digit incandescent filament readout |
| Indicators: | LED point<br>Lock Indicator - last three digits of the display blanked off when phaselock not achieved<br>Segment Function Indicator - all segments light up to permit visual inspection of the display function |

Mechanical:

| | | |
|---|---|---|
| Instrument: | Dimensions | - 7" X 3.5" X 11" (18 cm X 9 cm X 28 cm) |
| | Weight | - 8 lbs (3.6 kg) including batteries |
| Sensor: | | Omnidirectional noise cancelling toroidal sensing head |
| | Dimensions | - 4 7/8" (12 cm) diameter<br>- 4 3/8" (11 cm) height |
| | Weight | - 3 lbs (1.4 kg) |
| Ambient Conditions: | | Operating Temperature Range -<br>-40°F to 131°F (-40°C to 55°C)<br>Relative Humidity - 0 to 100% |
| Environmental: | | Instrument and sensor case made of high impact plastic |

# SPECIFICATIONS

**SOURCE OF PRIMARY FIELD:** VLF Communication Stations 12 to 24K hz

**NUMBER OF STATIONS:** 7 switch selectable

**STATIONS AVAILABLE:** The seven stations my be selected from:

| Code | Station & Location | Frequency |
|---|---|---|
| CM | Cutler, Maine | 17.8 KHz |
| SW | Seattle, Washington | 18.6 KHz |
| AM | Annapolis, Maryland | 21.4 KHz |
| H | Laulualei, Hawaii | 23.4 KHz |
| BOF | Bordeaux, France | 15.1 KHz |
| E | Rugby, England | 16.0 KHz |
| MS | Gorki, Russia | 17.1 KHz |
| OD | Odessa (Black Sea) | 15.6 KHz |
| NC | Australia, N.W.C. | 22.3 KHz |
| YJ | Yosamai, Japan | 17.4 KHz |
| HN | Hegaland, Norway | 17.6 KHz |
| TJ | Tokyo, Japan | 20.0 KHz |
| BA | Buenos Aires | 23.6 KHz |

**CHECK THAT STATION IS TRANSMITTING:** Audible signal from speaker.

**PARAMETERS MEASURED:**

(1) DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with a range of ± 90° and an accuracy of ± ½°.

(2) FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy ± 2% dependent on signal. Meter has two ranges: 0 — 300% and 0 — 600%.

(3) OUT-OF-PHASE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of normal field strnegth, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy ± 2%.

**OPERATING TEMPERATURE RANGE:** -30°C (-20°F) to +50°C (120°F)

**DIMENSIONS AND WEIGHT:** 9 x 19 x 27cm — 2.7Kg (6 lb)

**SHIPPING:** Instrument with foam lined wooden case,
shipping wt. — 6.0Kg (13 lb)

**BATTERIES:** 2 of 9 volt — Eveready 216
Average life expectancy — 20 hours for continuous operation

UNITS AVAILABLE ON A RENTAL OR PURCHASE BASIS.
CONTRACT SERVICES AVAILABLE FOR FIELD SURVEYS.

42A01SE0139 2.4600 OTTO

900

1982 03 12 2.4600

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L. 475258 et al in the Townships of Otto and Eby.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc: Joni Minerals & Expediting Ltd.
Tarzwell, Ontario
Attn: Mr. L.M. Dyment

Ontario — Geochemical and Expenditures) (File 2.4758) Lands Administration Branch — The Mining Act 2.4600

Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. – Do not use shaded areas below. #74

Type of Survey(s): VLF-EM and MAGNETOMETER.

Township or Area: Eby - Otto 2.4606

Claim Holder: James D Reed.

Prospector's Licence No.: K18971

Survey Company: JOMI MINERALS & EXPEDITING Ltd

Survey Dates (linecutting to office): 6 Day | Nov Mo. | 81 Yr. | 23 Day | Dec Mo. | 81 Yr.

Total Miles of line Cut: 14.3

Name and Address of Author (of Geo-Technical report): L.M.DYMENT RR#1 TARZWELL ONT P0K 1V0

## Special Provisions Credits Requested

| Instructions | | Days per Claim |
|---|---|---|
| For first survey: Enter 40 days. (This includes line cutting) | Geophysical - Electromagnetic | 40 |
| | Geophysical - Magnetometer | 20 |
| For each additional survey: using the same grid: Enter 20 days (for each) | Geophysical - Radiometric | |
| | Geophysical - Other | |
| | Geological | |
| | Geochemical | |

## Man Days

| Instructions | | Days per Claim |
|---|---|---|
| Complete reverse side and enter total(s) here | Geophysical - Electromagnetic | |
| | Geophysical - Magnetometer | |
| | Geophysical - Radiometric | |
| | Geophysical - Other | |
| | Geological | |
| | Geochemical | |

## Airborne Credits

| Note: Special provisions credits do not apply to Airborne Surveys. | | Days per Claim |
|---|---|---|
| | Electromagnetic | |
| | Magnetometer | |
| | Radiometric | |

## Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ + 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

## Mining Claims Traversed (List in numerical sequence)

| Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. | Mining Claim Prefix | Mining Claim Number | Expend. Days Cr. |
|---|---|---|---|---|---|
| L | 475258 | | | | |
| | 475259 | | | | |
| | 475260 | | | | |
| | 475261 | | | | |
| | 532922 | | | | |
| | 532923 | | | | |
| | 532924 | | | | |
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| | 532928 | | | | |
| | 532929 | | | | |
| | 532930 | | | | |
| | 532865 | | | | |
| | 532866 | | | | |

RECEIVED 1982 MINING LANDS SECTION

LARDER L. MINING DIV. RECEIVED MAR 1 1982 AM 7 8 9 10 11 12 1 2 3 4 5

Total number of mining claims covered by this report of work: 15

## For Office Use Only

Total Days Cr. Recorded: 900

Date Recorded: MAR - 1 1982

Date Approved as Recorded: Dec 29/82

Mining Recorder

Regional/District Director: for

## Report Completed

Date of Report: Feb 20/82

Recorded Holder or Agent (Signature): James D Reed

## Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: L.M. DYMENT RR#1 TARZWELL, ONT

Date Certified: Feb 20/82

Certified by (Signature): L.M. Dyment

1362 (81/2)

Ministry of Natural Resources
Ontario

# Geotechnical Report Approval

File 2.4600

Mining Lands Comments

☑ To: Geophysics Ms. Barlow.

Comments

☑ Approved ☐ Wish to see again with corrections | Date Oct 30/82 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

Ontario

Ministry of Natural Resources

File _____

# 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(s) VLF-EM and Magnetometer
Township or Area Eby - Otto
Claim Holder(s) _____

Survey Company Jomi Minerals + Expediting Ltd
Author of Report L.M. Dyment
Address of Author RR#1 TARZWELL, Ont P0K 1V0
Covering Dates of Survey NOV 6/81 – DEC 23/81 (linecutting to office)
Total Miles of Line Cut 14.3.

**SPECIAL PROVISIONS CREDITS REQUESTED**

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

ENTER 20 days for each additional survey using same grid.

| | DAYS per claim |
|---|---|
| Geophysical | |
| –Electromagnetic | 40 |
| –Magnetometer | 20 |
| –Radiometric | |
| –Other | |
| Geological | |
| Geochemical | |

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

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

DATE: Feb 20/82 SIGNATURE: L.M. Dyment
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

| File No. | Type | Date | Claim Holder |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**MINING CLAIMS TRAVERSED**
**List numerically**

| (prefix) | (number) |
|---|---|
| Otto L | 475258 ✓ |
| L | 475259 ✓ |
| L | 475260 ✓ |
| L | 475261 ✓ |
| Eby L | 532922 ✓ |
| L | 532923 ✓ |
| L | 532924 ✓ |
| L | 532925 ✓ |
| L | 532926 ✓ |
| L | 532927 ✓ |
| L | 532928 ✓ |
| L | 532929 ✓ |
| L | 532930 ✓ |
| L | 532865 ✓ |
| L | 532866 ✓ |

RECEIVED
MAR - 5 1982
MINING LANDS SECTION

TOTAL CLAIMS 15

If space insufficient, attach list

OFFICE USE ONLY

837 (5/79)

## GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 755 Number of Readings 744

Station interval 100 ft Line spacing 400 feet

Profile scale 1 inch = 40 %

Contour interval 400 Gammas

MAGNETIC

Instrument Barringer GM-122 Proton

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Loop method

Base Station check-in interval (hours) 2 hours

Base Station location and value L2W P145 - 58898

ELECTROMAGNETIC

Instrument CRONE RADEM

Coil configuration

Coil separation Infinite.

Accuracy ± $\frac{1}{2}$ %

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency Cutler Maine 17.8 KHz
(specify V.L.F. station)

Parameters measured Dip Angle – Field Strength.

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

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

TECK TP. - M.392

EBY TP. - M.345

BOSTON TP. - M.332

MARQUIS TP. - M.362

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

VI V IV III II I

# THE TOWNSHIP OF OTTO

## DISTRICT OF TIMISKAMING

## LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

## 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.

DATE OF ISSUE
DEC 10 1982
Ministry of Natural Resources
TORONTO

12126

PLAN NO.- M-379

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0139 2.4600 OTTO

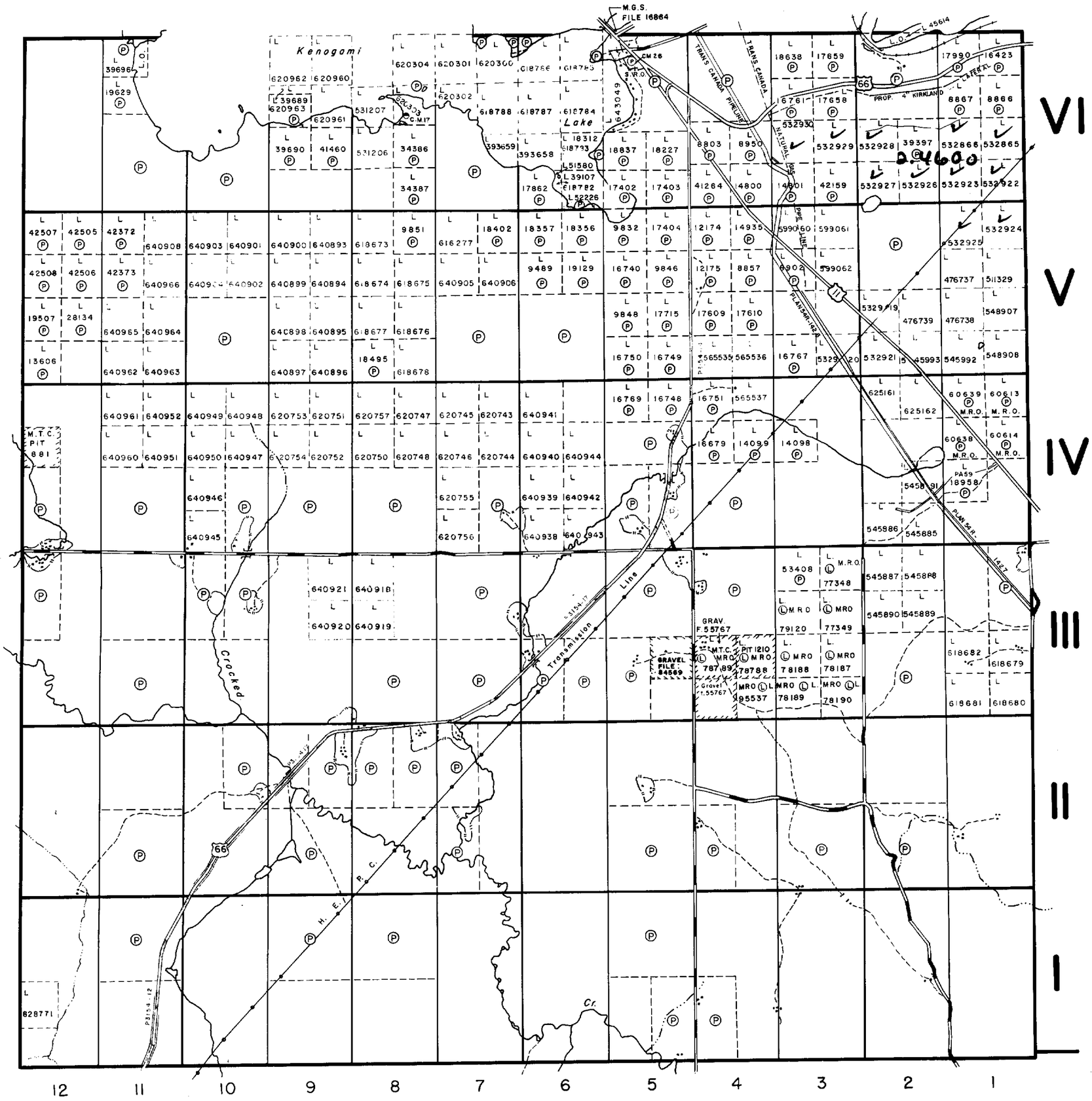
200

Grenfell Twp. M.351

Burt Twp. M.334

Otto Twp. M.379

Blain Twp. M.418




THE TOWNSHIP OF

# EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

## LEGEND

| | |
|---|---|
| PATENTED LAND | P |
| CROWN LAND SALE | C.S. |
| LEASES | L |
| 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 | C. |
| CANCELLED | |

## NOTES

400' surface rights reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM STAKING
under Sec. 43 of The Mining Act (R.S.O. 1970).

| Order No. | File | Date | Disposition |
|---|---|---|---|

DATE OF ISSUE
DEC - 9 1982
Ministry of Natural Resources
TORONTO

1366

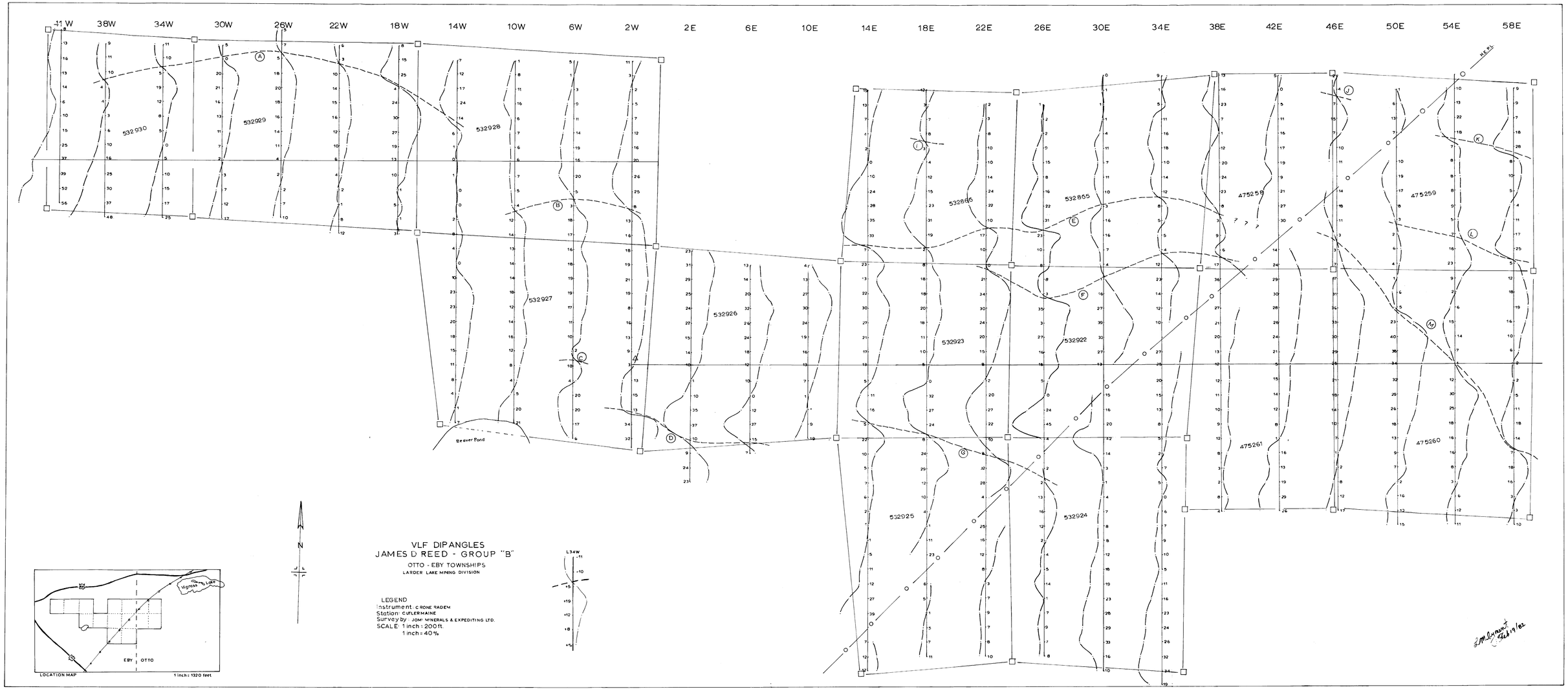
PLAN NO.- M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0139 2.4600 OTTO

210

K. Kalamov

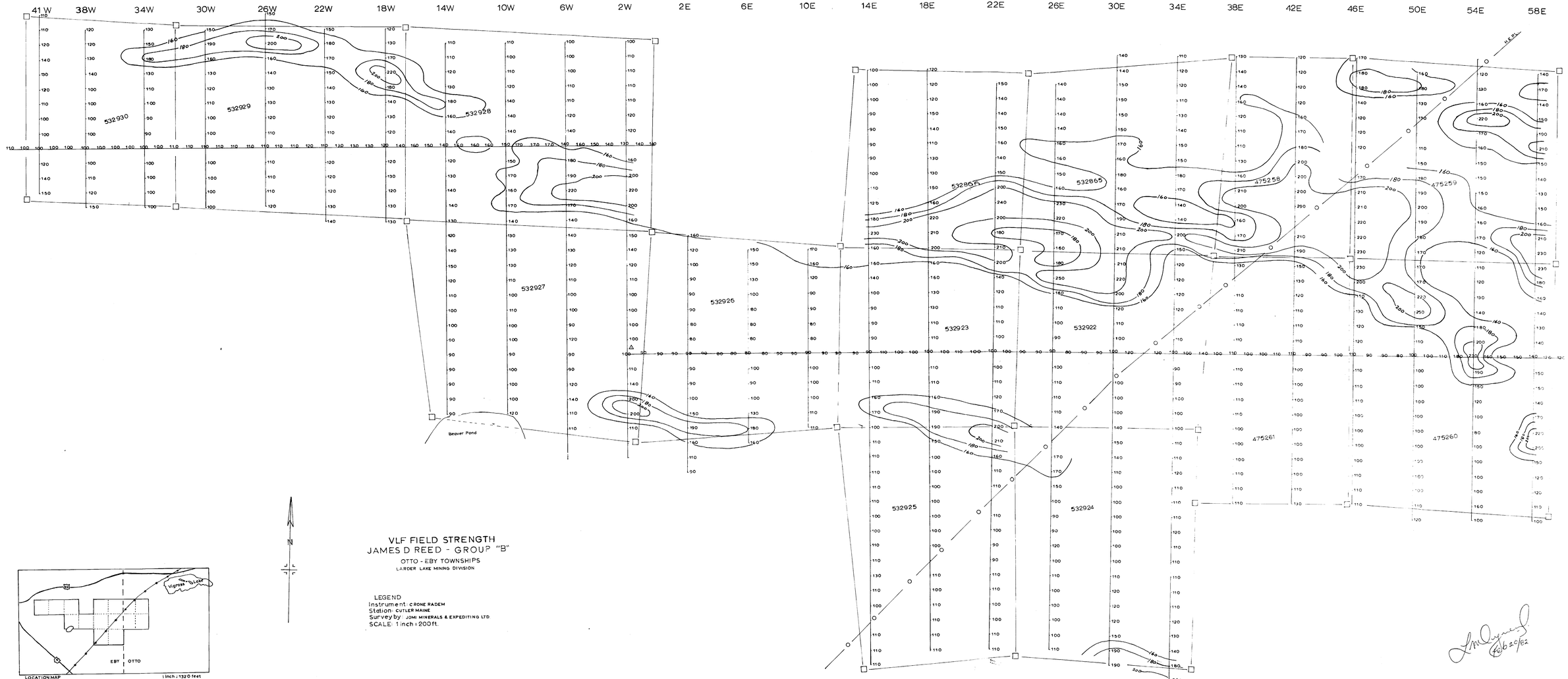



VLF DIPANGLES
JAMES D REED - GROUP "B"
OTTO - EBY TOWNSHIPS
LARDER LAKE MINING DIVISION

LEGEND
Instrument: C RONE RADEM
Station: CUTLER MAINE
Survey by: JDR MINERALS & EXPEDITING LTD.
SCALE: 1 inch = 200 ft.
1 inch = 40 %

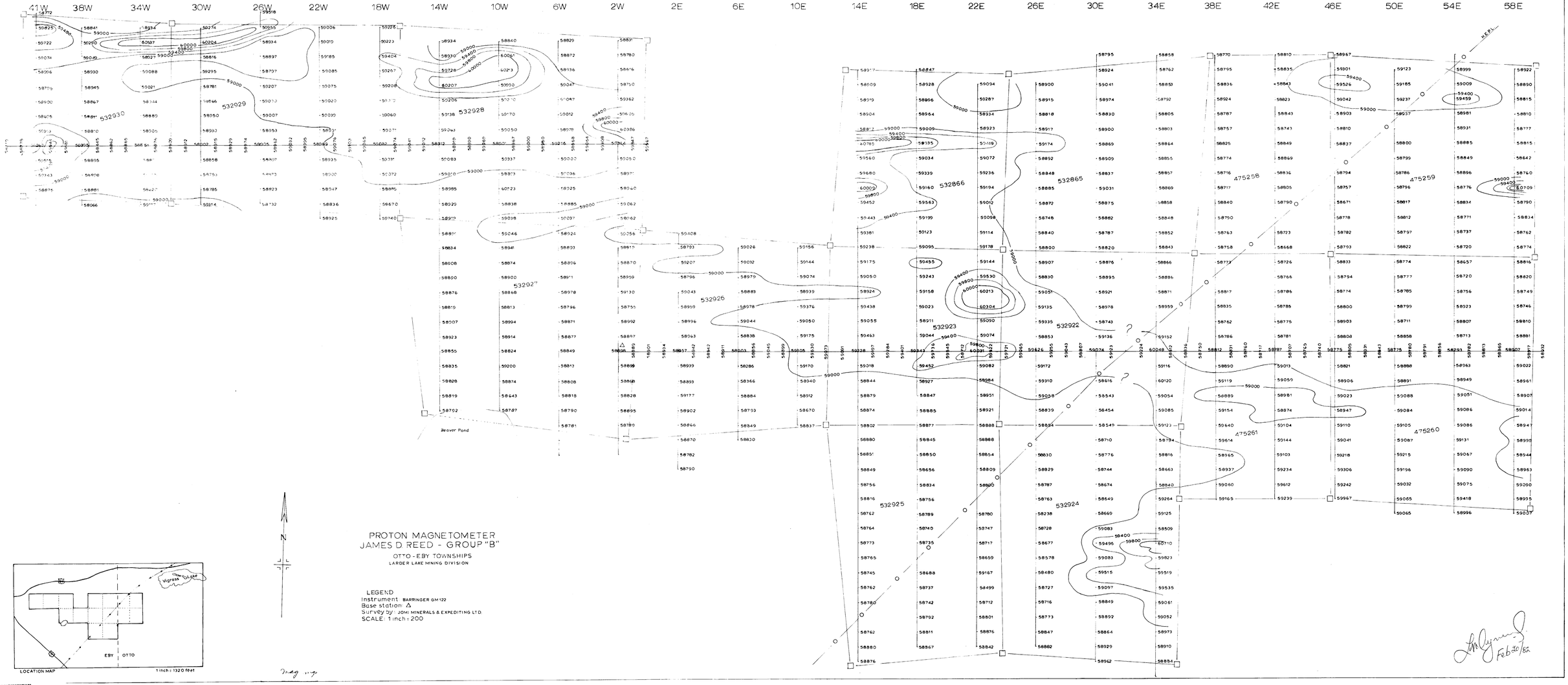
2400

42A13SW0138 2.4666 OTTO
P20


41 W
38W
34W
30W
26W
22W
18W
14W
10W
6W
2W
2E
6E
10E
14E
18E
22E
26E
30E
34E
38E
42E
46E
50E
54E
58E
532930
532929
532928
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532926
532925
532865
532805
532923
532922
532924
475258
475259
475261
475260
Beaver Pond
VLF Sta.
N
VLF FIELD STRENGTH
JAMES D REED - GROUP "B"
OTTO - EBY TOWNSHIPS
LARDER LAKE MINING DIVISION
LEGEND
Instrument: CRONE RADEM
Station: CUTLER MAINE
Surveyed by: JOINT MINERALS & EXPEDITING LTD
SCALE: 1 inch = 200ft.
Vigross Blake
EBY
OTTO
LOCATION MAP
1 inch = 1320 feet
Feb 20/62

2.4600

230




PROTON MAGNETOMETER
JAMES D. REED - GROUP "B"

OTTO-EBY TOWNSHIPS
LARDER LAKE MINING DIVISION

LEGEND
Instrument: BARRINGER GM-122
Base station: △
Survey by: JOW MINERALS & EXPEDITING LTD.
SCALE: 1 inch = 200

Feb 30/62

Mag. map
24 050

240