

2-2546



42816SE0006 2.2546 POULETT

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REPORT
on a
GEOPHYSICAL SURVEY
MONTCALM-POULETT No. 1 GROUP

Hollinger Mines Limited

Timmins, Ontario
November 28, 1977

POULETT

Creek



AST.

2 mi.

1 mi.

AITKIN TWP.

POULETT TWP.
MONTCALM TWP.

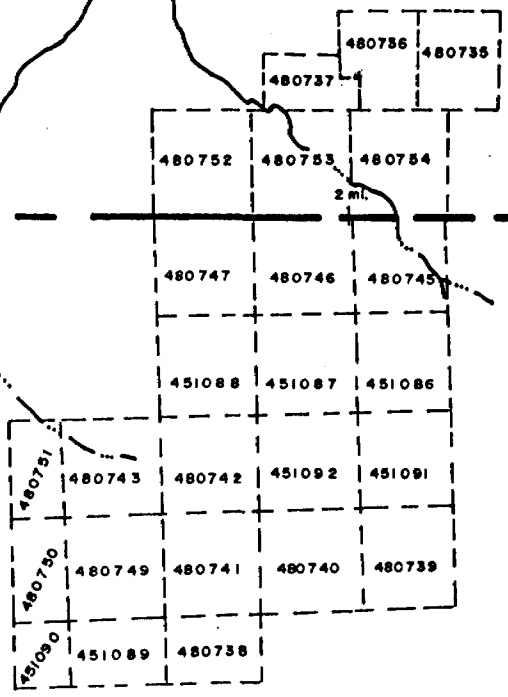
FORTUNE TWP.

3 mi.

7 mi.

MONTCALM

Creek



Scale: 1" = 2640'

INTRODUCTION

A vertical loop survey was completed over 25 claims approximately 40 miles northwest of the city of Timmins.

Several conductive zones were outlined by the vertical loop survey. All but four are thought to be "overburden" responses.

PROPERTY, LOCATION and ACCESS

The Montcalm-Poulett No. 1 Group was staked during October, 1976, and consisted of 25 claims numbered as follows: P-451086 to P-451092, P-480735 to P-480742, and P-480745 to P-480754, all inclusive.

Four additional claims were staked recently but are not included in this report.

The property lies in the northeast corner of Montcalm Township with the six most northerly claims lying in Poulett Township.

Access is by helicopter from the Timmins airbase.

HISTORY and GEOLOGY

No evidence of any diamond drilling has been found either in the field or from assessment data.

There is no surface exposures of bedrock within the present claim group. The claims lie about 1 mile north of the Montcalm nickel discovery made by the "Keevil" organization.

SURVEY METHODS

Line Cutting:

Two north-south base lines were established, and cross lines were put in at 400' intervals. Stations were established at 100' intervals.

V.E.M. Survey:

A V.E.M. survey was carried out using a dual frequency "Crone" E.M. The frequencies used were 480 Hz and 1800 Hz. Coil separation was from 400' to 1200' from the transmitter.

RESULTS

The results of the survey are plotted and interpreted on the accompanying plan entitled Montcalm #1 V.E.M. Survey at a scale of 1 inch to 200 feet.

The anomalies are listed alphabetically from A to I.

Anomaly A is a definite bedrock conductor situated in a strong magnetic low. The anomaly has a strike similar to the T.G.S. orebody in Kidd Township and is thought to lie in volcanic rocks that may contain dacite and rhyolite formations. This conductor warrants testing by diamond drilling.

Anomaly B appears to have an unusual width and is flanked by magnetic highs. This conductor also warrants testing by diamond drilling.

Anomaly C is possibly a bedrock response but further testing by an H.E.M. survey is required.

Anomaly D lies on the flank of a magnetic feature that appears to be a diabase dike. Anomaly D warrants further work.

Anomalies E, F, G, H and I are thought to be "clay" responses.

RECOMMENDATIONS and CONCLUSIONS

Anomalies A and B are definite drill targets. Anomalies C and D require further geophysical surveys and anomalies E to I are considered to be "overburden responses. Re-evaluation of these conductors to be carried out when drilling results are available for study.

Respectfully submitted,

C. D. MacKenzie
C. D. MacKenzie.



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 (Vertical Loop)
Township or Area Montcalm-Poulett Townships
Claim Holder(s) Hollinger Mines Limited
Box 320, Timmins, Ont. P4N 7E2
Survey Company Hollinger Mines Limited
Author of Report C. D. MacKenzie
Address of Author 123 Hemlock Street, Timmins, Ont.
Covering Dates of Survey June 2 - Sept. 30, 1977
(linecutting to office)
Total Miles of Line Cut 26.4 miles

MINING CLAIMS TRAVERSED
List numerically

- | | | |
|----------|---|-------------------------------------|
| P | - | 451086 ✓ |
| (prefix) | | 451087 ✓
<small>(number)</small> |
| | | 451088 ✓ |
| | | 451089 ✓ |
| | | 451090 ✓ |
| | | 451091 ✓ |
| | | 451092 ✓ |
| | | 480735 ✓ |
| | | 480736 ✓ |
| | | 480737 ✓ |
| | | 480738 ✓ |
| | | 480739 ✓ |
| | | 480740 ✓ |
| | | 480741 ✓ |
| | | 480742 ✓ |
| | | 480745 ✓ |
| | | 480746 ✓ |
| | | 480747 ✓ |
| | | 480748 ✓ |
| | | 480749 ✓ |
| | | 480750 ✓ |
| | | 480751 ✓ |
| | | 480752 ✓ |
| | | 480753 ✓ |
| | | 480754 ✓ |

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

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

Geophysical	DAYS per claim
-Electromagnetic	<u>40</u>
-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. 28, 1977 SIGNATURE: C. D. MacKenzie
Author of Report or Agent

Res. Geol. L.D. Qualifications 63.1255

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 25

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1214 Number of Readings 1309
Station interval 100 feet Line spacing 400 feet
Profile scale 1" = 20'
Contour interval _____

MAGNETIC

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

ELECTROMAGNETIC

Instrument Crone Geophysics Dual Frequency E.M.
Coil configuration Minimum coupled
Coil separation 400 ft. to 2000 ft.
Accuracy ± 1 degree
Method: Fixed transmitter Shoot back In line Parallel line
Frequency High 1800 Hz Low 480 Hz
(specify V.L.F. station)
Parameters measured Dip angle (inclination of resultant field)

GRAVITY

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

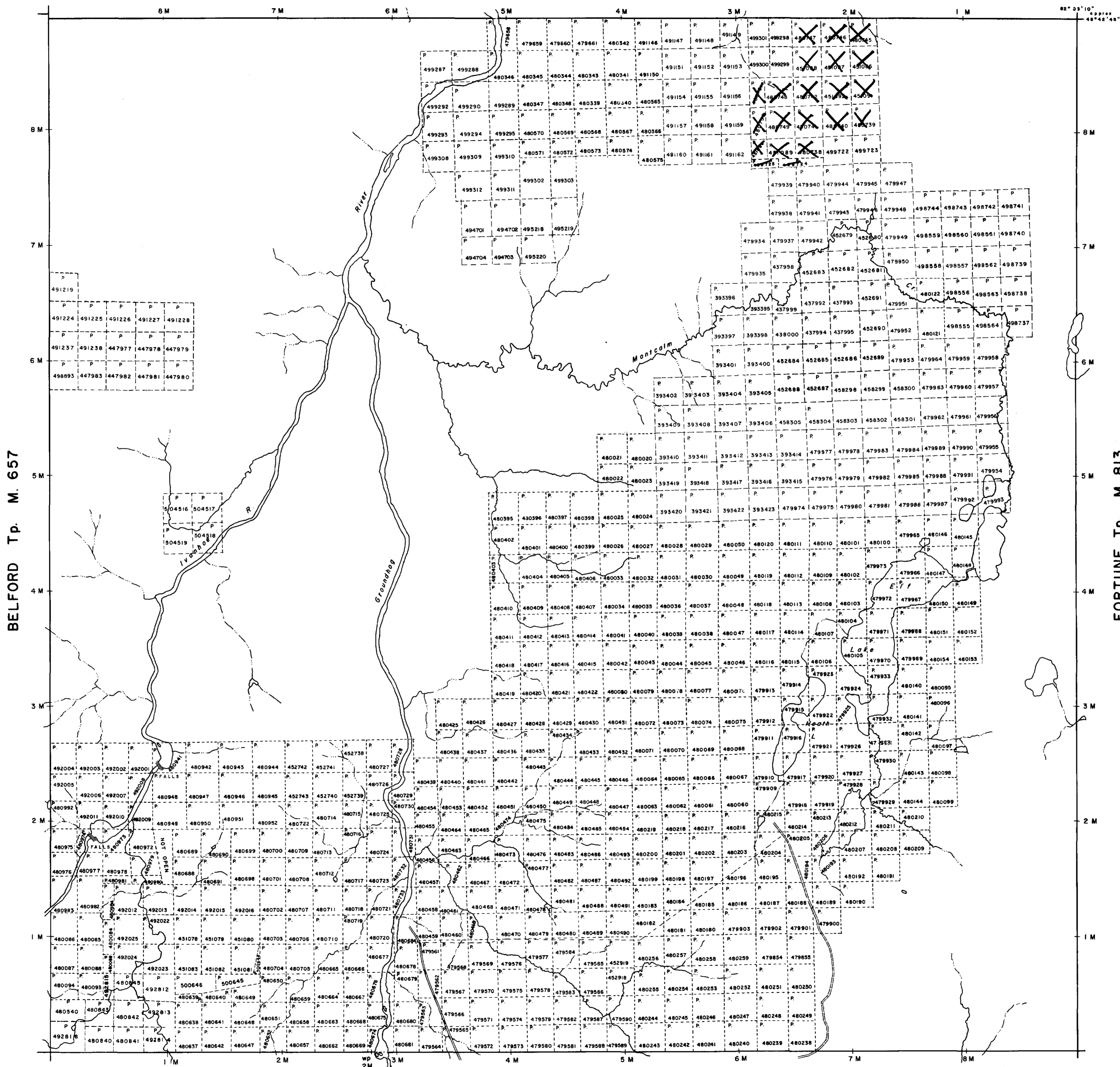
**INDUCED POLARIZATION
RESISTIVITY**

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 _____

NOTES

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

POULETT Tp. M.1063



DATE OF ISSUE
DEC 12 1977
SURVEYS AND MAPPING
BRANCH

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LEASE, SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| CROWN LAND SALE | C.S. |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | |
| CANCELLED | |
| SAND & GRAVEL | |

SCALE: 1 INCH = 40 CHAINS

ACRES HECTARES

40 16

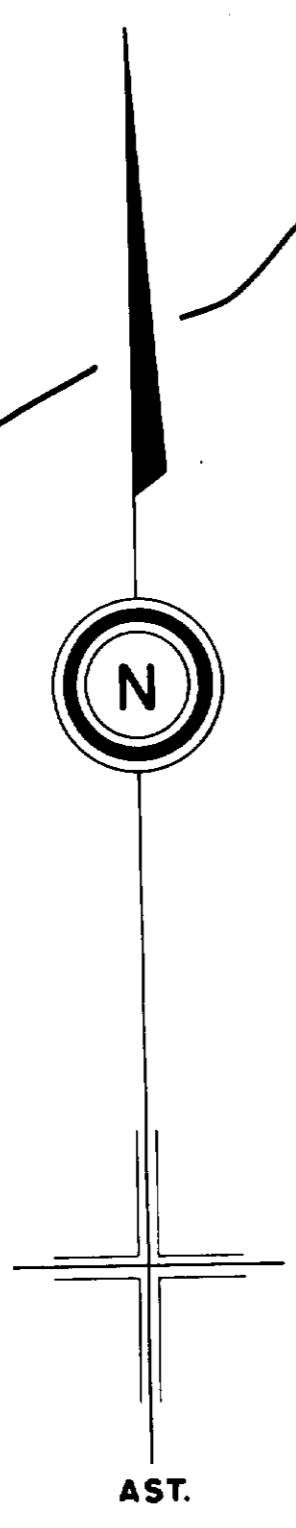
TOWNSHIP 2.2546
MONTCALM
DISTRICT
COCHRANE
MINING DIVISION
PORCUPINE

Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date 12.74. Plan No.
Whitney Block Queen's Park Toronto
M. 872

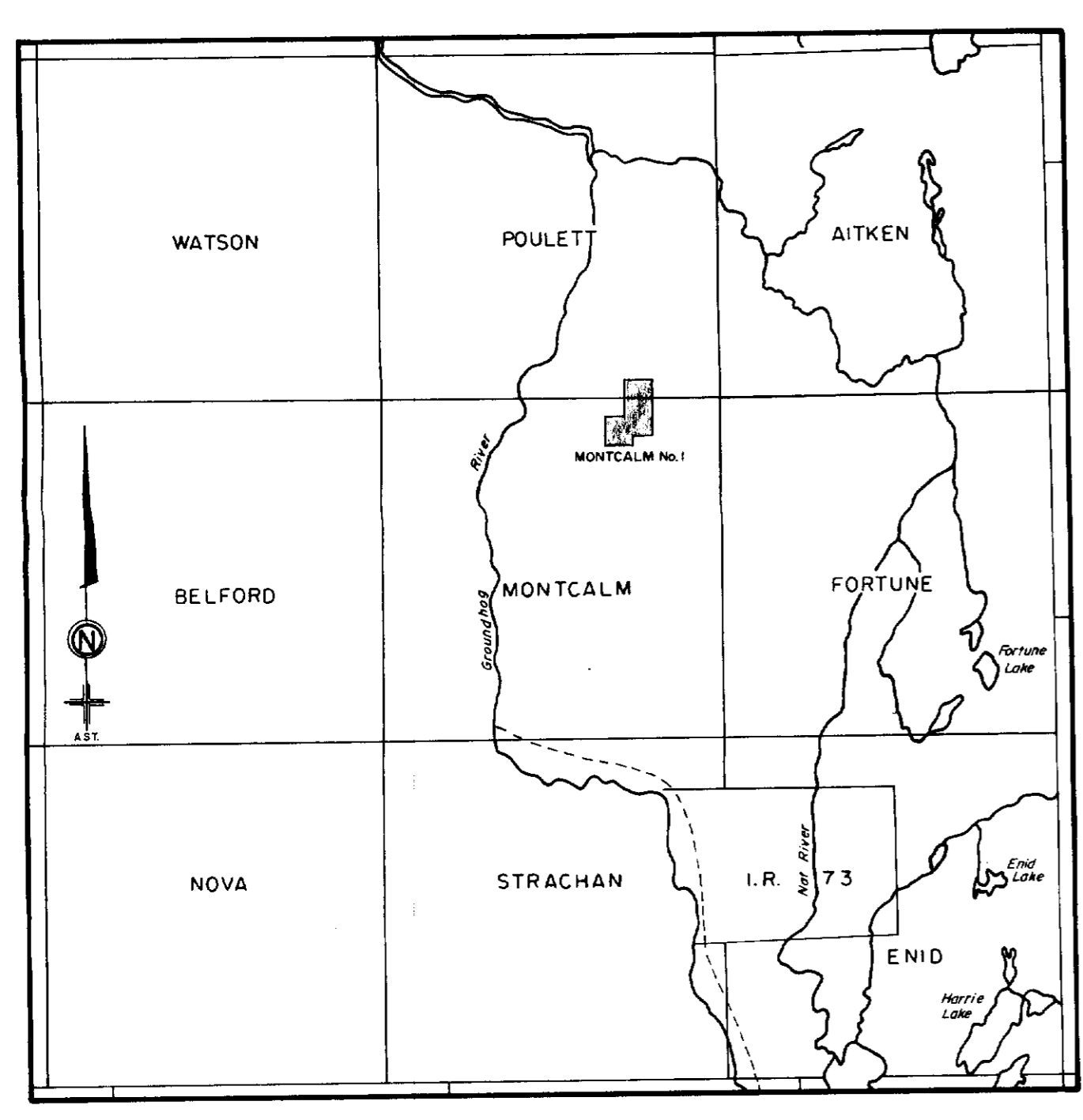


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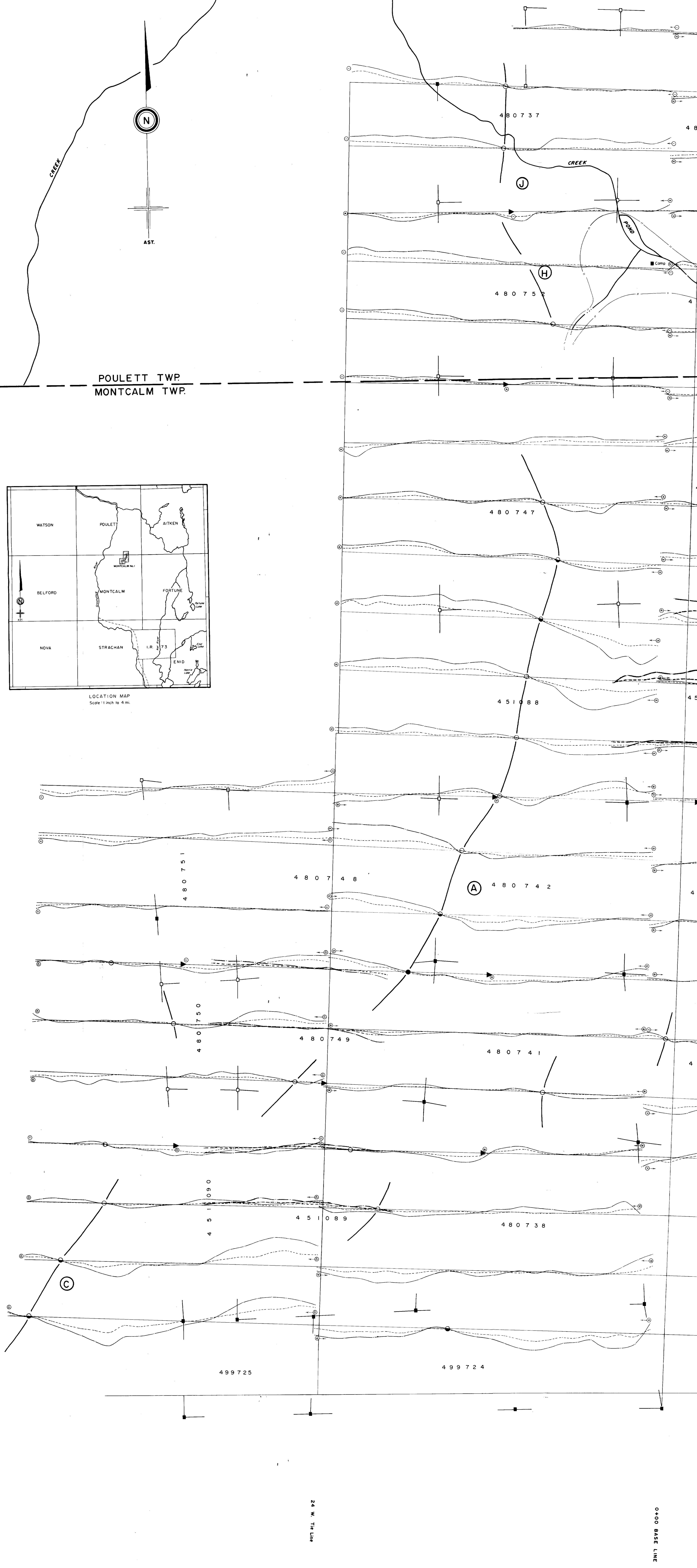
CREEK



POULETT TWP.
MONTCALM TWP.



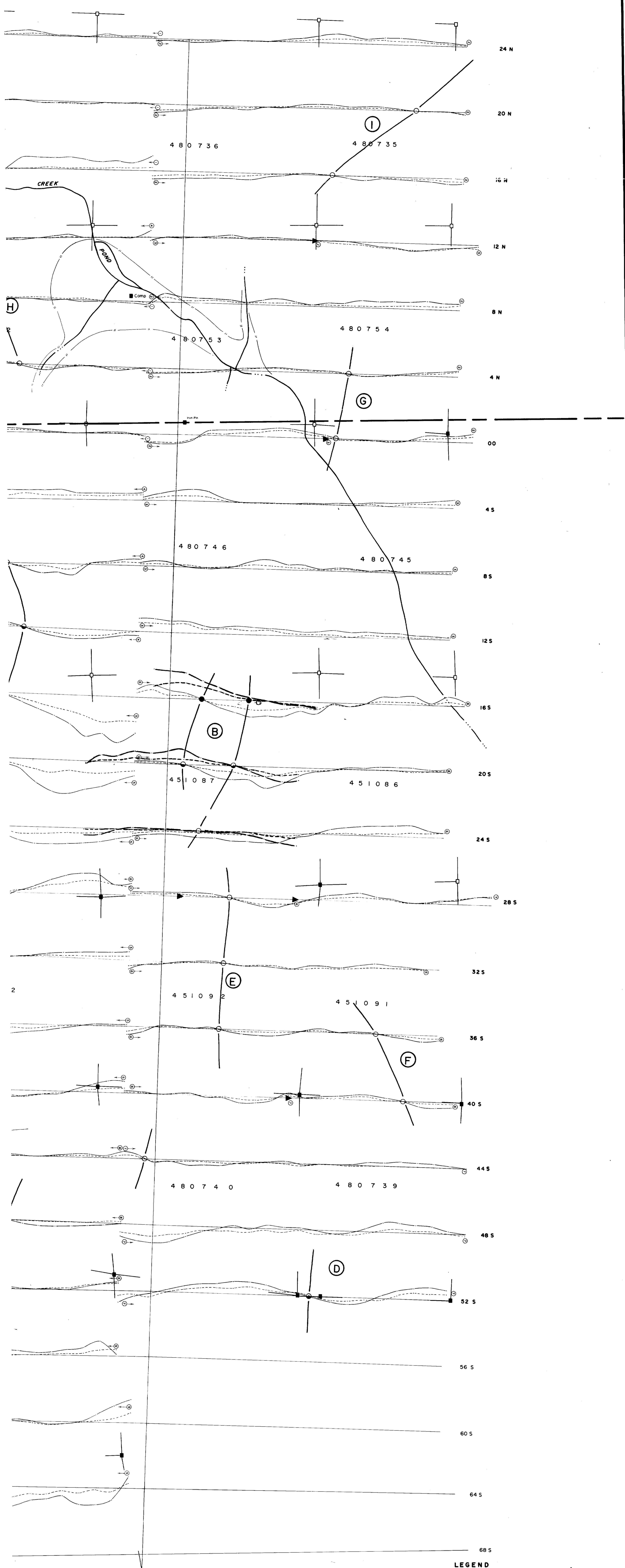
LOCATION MAP
Scale 1 inch to 4 mi.



24 W. Tie Line

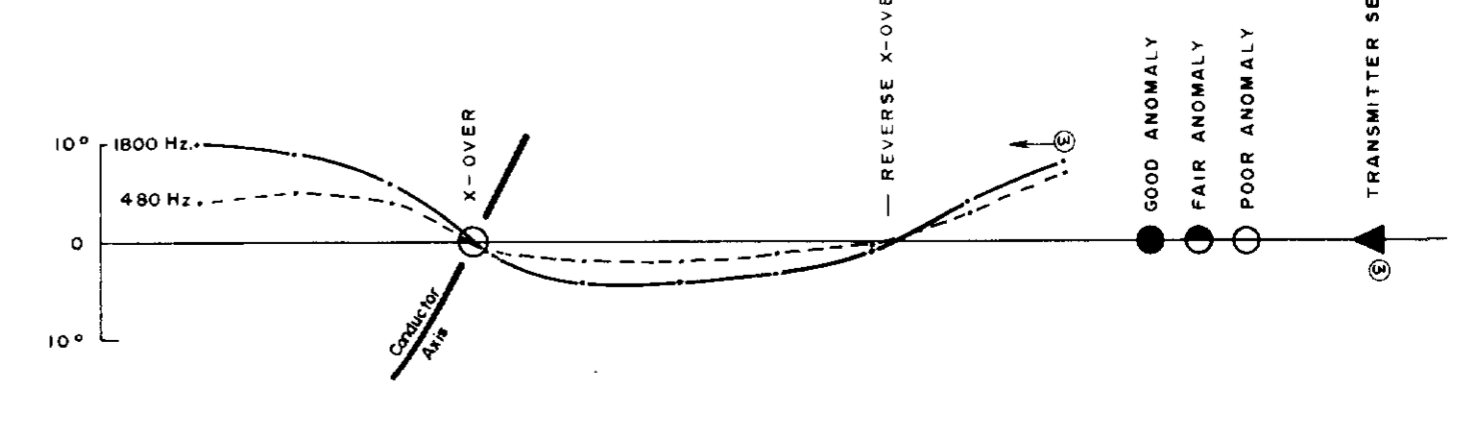
0+00 BASE LINE





24 N
20 N
16 N
12 N
8 N
4 N
00
4 S
8 S
12 S
16 S
20 S
24 S
28 S
32 S
36 S
40 S
44 S
48 S
52 S
56 S
60 S
64 S
68 S

LEGEND



0+00 BASE LINE

HOLLINGER MINES LTD.
MONTCALM No. 1
V.E.M. SURVEY
 (480 & 1800 Hz.)
Montcalm & Poulett Twps.
L.D. MacIntyre
 SCALE: 1" = 200'