

SERVICES EXPLORATION SERVICES

765, BOUL. QUÉBEC  
C.P. 428  
ROUYN-NORANDA, P.Q.  
J9X 5C4

Dess  
Jalor  
Cour  
Levé  
Levé  
Programmes d'Exploration  
Vente d'articles  
d'exploration minière



42B09NE0002 2.14084 MONTCALM

Exploration Programmes  
Sales of mining  
exploration articles

010

2.14084

PLACER DOME INC.

GEOPHYSICAL SURVEYS

CLAIM GROUP # 441

Belford And Montcalm Twps.

April 1991

RECEIVED

MAY 02 1991

MINING LANDS SECTION

TABLE OF CONTENTS

|                                   |      |
|-----------------------------------|------|
| I - INTRODUCTION                  | P 1  |
| II - PROPERTY                     | P 1  |
| III - LOCATION & ACCESSIBILITY    | P 2  |
| IV - GEOPHYSICAL SURVEYS          | P 2  |
| V - CONCLUSIONS & RECOMMENDATIONS | P 11 |

MAPS

|                             |              |
|-----------------------------|--------------|
| 1 - Coloured Magnetic Map   | 1:16 666     |
| 2 - Input & Compilation Map | 1:20 000     |
| 3 - Index Map               | 1:50 000     |
| 4 - Geology Map             | 1:1 000 000  |
| 5 - Location Map            | 1: 1 600 000 |

I - INTRODUCTION:

At the request of PLACER DOME INC., geophysical surveys were undertaken, by exploration Services Reg'd, during the month of March, 1991, on the # 441 claim group which is located in the east-central part of Belford township with partial overlap in adjoining Montcalm township, northeastern Ontario.

The magnetometer survey was undertaken to be used as a guide to the geological and structural interpretation of this particular area. The electromagnetic survey was carried out to locate and evaluate the INPUT anomalies located on the claim group.

II - PROPERTY:

The # 441 claim group consists of 45 contiguous sixteen hectare claims, 40 of which are located in Belford township and 5 of which are located in adjoining Montcalm township. The claim numbers are as follows:

- 1160505 - 1160506 - 1160507 - 1160508 - 1160509
- 1160510 - 1160511 - 1160512 - 1160513 - 1160514
- 1160515 - 1160516 - 1160517 - 1160518 - 1160519
- 1160520 - 1160521 - 1160522 - 1160523 - 1160524
- 1160531 - 1160532 - 1160533 - 1160534 - 1160535

1160661 - 1160662 - 1160663 - 1160664 - 1160665  
1160666 - 1160667 - 1160668 - 1160669 - 1160670  
1160671 - 1160672 - 1160673 - 1160674 - 1160675  
1160676 - 1160677 - 1160678 - 1160679 - 1160680

III - LOCATION & ACCESSIBILITY:

The claim group is accessible, from the city of Timmins, by driving westwards, then southwards for a distance of 6 Km; from this point, an access road leads westward along the boundaries of Godfrey and Bristol townships. This access road eventually reaches the central part of Strachan township, a travelling distance of 55 Km. the claim group may then be reached by helicopter, a distance of 12 Km to the northwest.

IV - GEOPHYSICAL SURVEYS:

The geophysical surveys were carried out along a previously cut grid whose 4.0 meter long base line trends east-west; cross lines spaced at every 100 meter intervals extend northwards to a maximum distance of 1 950 m and southwards to a maximum distance of 400 m. Thus a total of 73.6 line Km have been

surveyed.

Magnetometer Survey:

A - Instrumentation:

The magnetometer survey was carried out using an E.D.A. nuclear precession instrument with an accompanying base station for diurnal corrections.

Readings were taken at every 12.5 meter intervals and the data was plotted on a map at the scale of 1: 2 500.

B - Interpretation:

Numerous magnetic areas have been outlined by the survey; these are briefly discussed as follows:

Area "A":

Two east-west trending anomalous areas defined by the 600 gamma contour lines have been outlined on the geological interpretation map. One such area whose width varies from 200 to 150 meters occurs in the northwestern corner of the property from cross line 25 W to cross line 19 W, where it abuts against a local northwest trending diabase dyke.

This particular area also contains magnetic anomalies with values ranging up to 1 100 gammas. These magnetic anomalies appear to be associated with segmented conductor C-1 and C-2. A compilation map indicates that segment C-1 has been drilled.

Another area labelled "A" on the geological interpretation map is located in the southern part of the grid between cross line 25 W and cross line 3 E where it terminates its eastward extension against a local northwestern trending diabase dyke. This 150 meter wide band trends east-west from cross line 25 W to cross line 14 W, then trends northeast to cross line 3 E. This magnetic area defined by the 600 gamma contour line hosts conductors "G" and "H".

These 2 magnetic areas which have been identified by the letter "A" on the geological interpretation map indicate the presence of two stratigraphic horizons of intermediate volcanic rocks.

Area "B":

Magnetic area "B" has background values ranging from 400 gammas to 600 gammas and covers approximately 60% of the surveyed area. The range in readings may indicate changes in the depth of overburden

rather than changes in rock types.

The relatively low magnetic readings of this area suggests the presence of underlying felsic volcanic rocks.

Area "C":

Three such areas have been outlined by the 600 gamma contour lines in the western part of the grid between cross line 17 W and cross line 5 W, between 4+00 N and 11+00 N. These, more or less oval shaped anomalies, range between 600 and 1,000 gammas.

These anomalies are probably caused by mafic intrusives.

Area "D":

Three such areas have been outlined by the survey; these north, northwest trending linear features are caused by local diabase dykes.

Electromagnetic survey:

A - Instrumentation:

An Apex Parametrics Maxmin II horizontal loop unit was used for the survey with a coil separation of 200 meters. Readings were taken at every 25 meter intervals on the 444 and 1777 frequencies.

The E.M. data were then plotted on a map at the scale of 1: 2 500.

B - Interpretations:

Because of the length of the reference cable used, the E.M. anomalies are generally not well defined; however all appear to be dipping more or less vertically and trend in an east-west, east-northeast direction.

The E.M. survey has outlined 13 conductors which have been labeled from "A" to "M"; these are briefly discussed as follows:

Conductor "A":

Located in the north-central part of the property, conductor "A" trends northeastwards from cross line



2 E, in the vicinity of 16 N. It intercepts line 3 E at 16+60 N - it may continue eastwards beyond the surveyed area.

This weak anomaly appears to be coincident with a fault zone as defined by the segmentation or displacement of the local diabase dyke against which it abuts.

Conductor "B":

Two segments of this conductor have been outlined by the survey in the northwestern part of the property. Segment 1 traverses cross lines 18 W to 14 W in the vicinity of 9+50 N. The strongest E.M. response along this segment has been observed on lines 15 W, 16 W and 17 W.

The second segment of this anomaly occurs between cross lines 11 W and 4 W. Its strongest response has been observed on line 10 W.

Conductor "C":

Conductor "C" is located in the western part of the grid - segment C-1 intercepts cross line 25 W and 24 W at 5+50 N; segment C-2 intercepts line 23 W at 6+25 N and line 22 W at 6+75 N. These conductors

are associated and/or coincident with a 100 meter wide magnetic anomaly within the intermediate volcanic stratigraphic horizon. Segment C-1 appears to have been drilled previously.

Conductor "D":

Located in the northwestern area of the property, conductor "C" coincides with an apparent segmentation of the local diabase dyke - it may thus be caused by a fault similar to conductor "A". This anomaly intercepts cross line 10 E at 3+50 N and cross line 11 E at 4+00 N. - it is very weak.

Conductor "E":

This short anomaly trends northeast; it intercepts line 7 E at 2+00 N and line 8 E at 2+25 N and line 9 E at 2+50 N. Its best response occurs along line 8 E.

Conductor "F":

This conductor traverses lines 6 W, 5 W, 4 W and 3 W in the vicinity of 5+75 N and line 2 W at 6+00 N. This anomaly appears to coincide with a regional fault as indicated by the displacement of the local diabase dyke.

Conductor "G":

The longest conductor outlined by the survey is located in the southwestern area of the property and, because of limited E.M. coverage, has been only partly defined. It appears to extend from line 22 W to line 11 W. A 150 m wide diabase dyke segments this conductor between line 16 W and line 14 W. The optimum response observed is located on line 19 W - on this line the conductor axis is located at 0+65N. This conductor lies within the intermediate volcanic rocks of the area, as defined by the magnetometer survey.

Conductor "H":

This conductor also lies mostly within the band of intermediate volcanic rocks which crosses the area in an east-northeast direction - it could be an extension of conductor "G". This anomaly is weak, however its best response has been observed to be located on line 2 W. On this line the conductor axis is at 2+75 N.

Conductor "I":

Conductor "I" is the strongest of the outlined E.M. anomalies on this particular grid. It is located

in the southeastern corner of the claim group between cross line 9 E and cross line 13 E at which point it abuts against a local diabase dyke. Its strongest response occurs on line 11 E; on this line the conductor axis is at 0+60N.

According to the INPUT compilation map, this E.M. anomaly has been drilled.

Conductor "J":

A weak anomaly has been observed in the south-central part of the grid between line 4 W and line 0 in the vicinity of 1+00 S. Its best response is on line 1 W.

Conductor "K":

Segmented conductor "K" trends in a NE direction. It is located in the southern part of the grid between line 0 and line 6 E where it terminates against a diabase dyke. Because of limited E.M. coverage in that area, conductor "K" has been only partly defined. Its optimum response lies along line 3 E; on this line the conductor axis is estimated to be at 3+00 S.

Conductors "L" & "M":

Two short and weak conductors have been outlined

north of the base line; conductor axis "L" crosses line 4 E at 3+50 N and conductor axis "M" crosses line 5 E at 2+75 N.

V - CONCLUSIONS & RECOMMENDATIONS:

The magnetometer survey has outlined two east-west trending narrow bands of intermediate volcanic rocks within a setting of felsic volcanic rocks. These in turn have been intruded by 3 small mafic intrusives in the northwestern part of the grid. North-north-west diabase dykes have also been outlined by the magnetometer survey.

The electromagnetic survey has outlined 13 anomalies two of which have been previously drilled and 2 of which appear to be caused by fault zones. All of the INPUT anomalies located on the property have been identified.

Although weak in nature, most of the E.M. conductors should be considered as genuine bedrock anomalies. It is recommended, however, that selected targets should be the object of I.P. surveys for further evaluation.

Respectfully submitted:

E. Chartré: \_\_\_\_\_

April 20, 1991

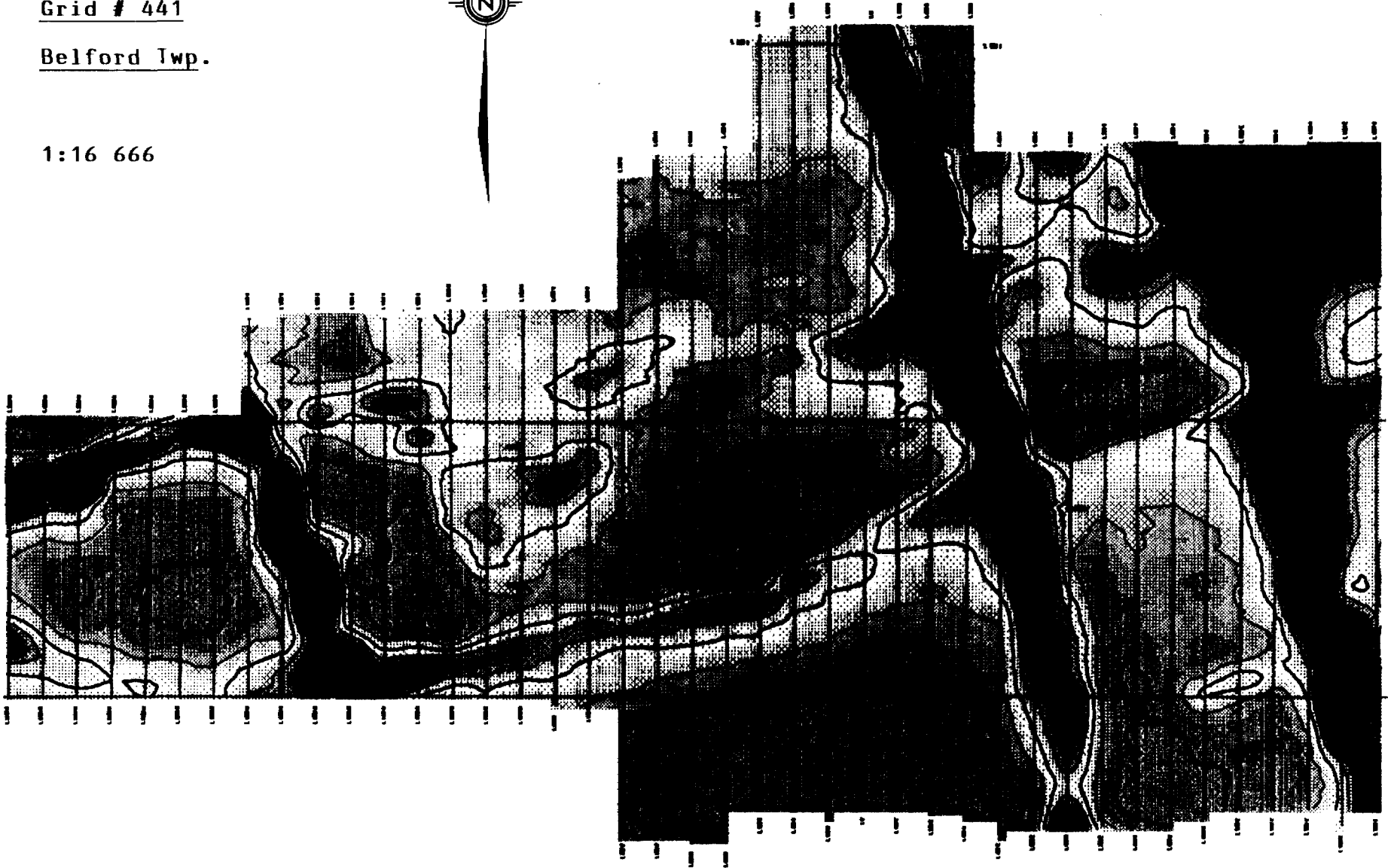
PLACER DOME INC.

Magnetometer Survey

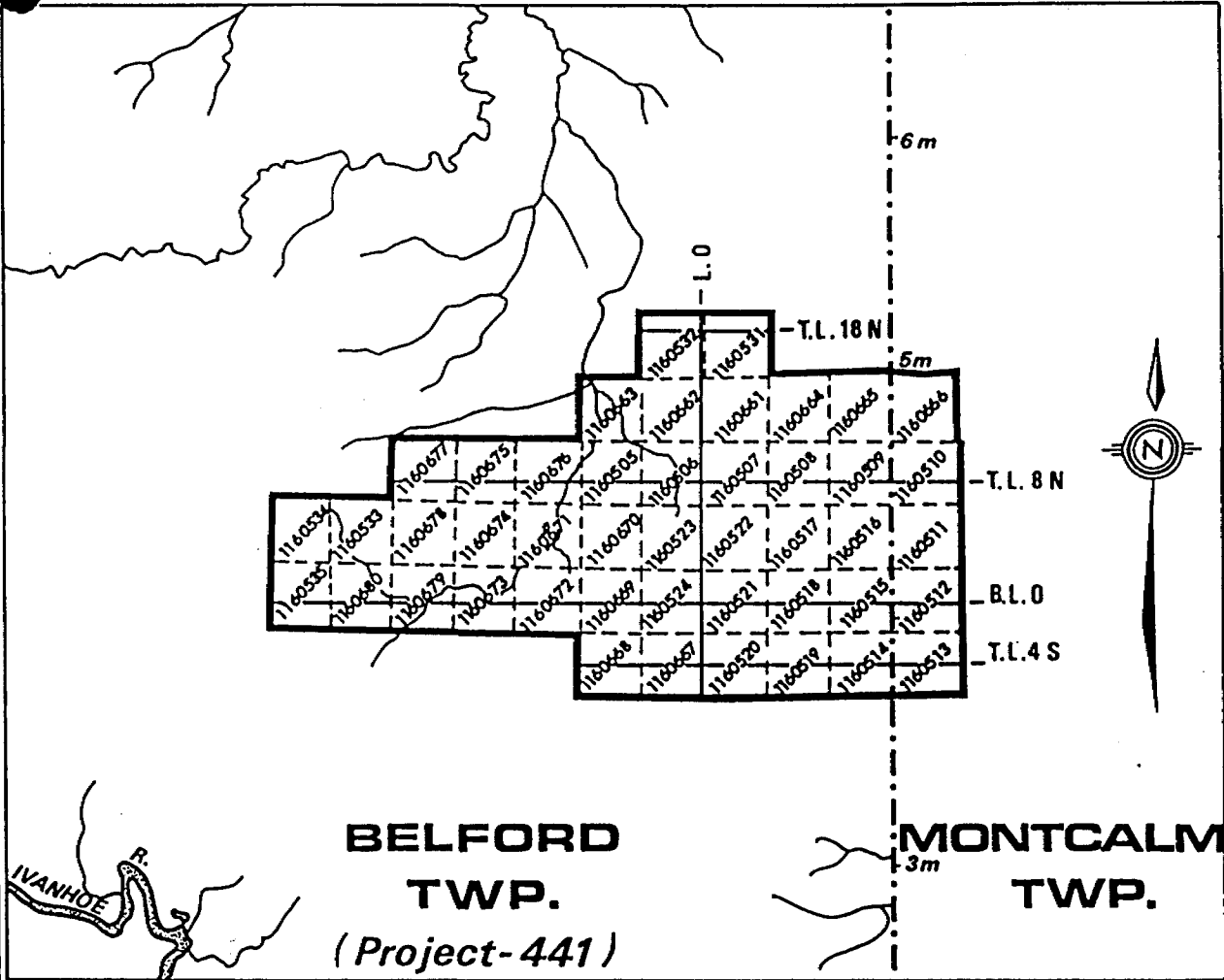
Grid # 441

Belford Twp.

1:16 666



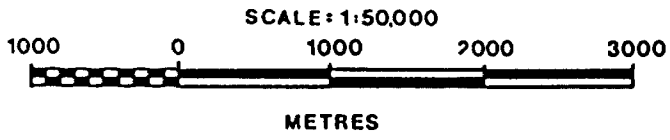




**BELFORD  
TWP.  
(Project-441)**

**MONTCALM  
TWP.**

**INDEX MAP**



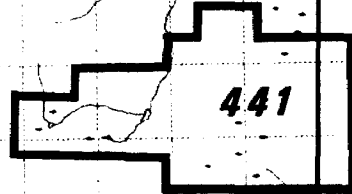


Fire Lookout



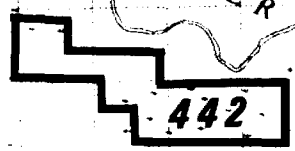
**BELFORD**

MON



**441**

GROUNDHOG



**442**

RIVER

IVANHOE

NOVA

STR

4000000

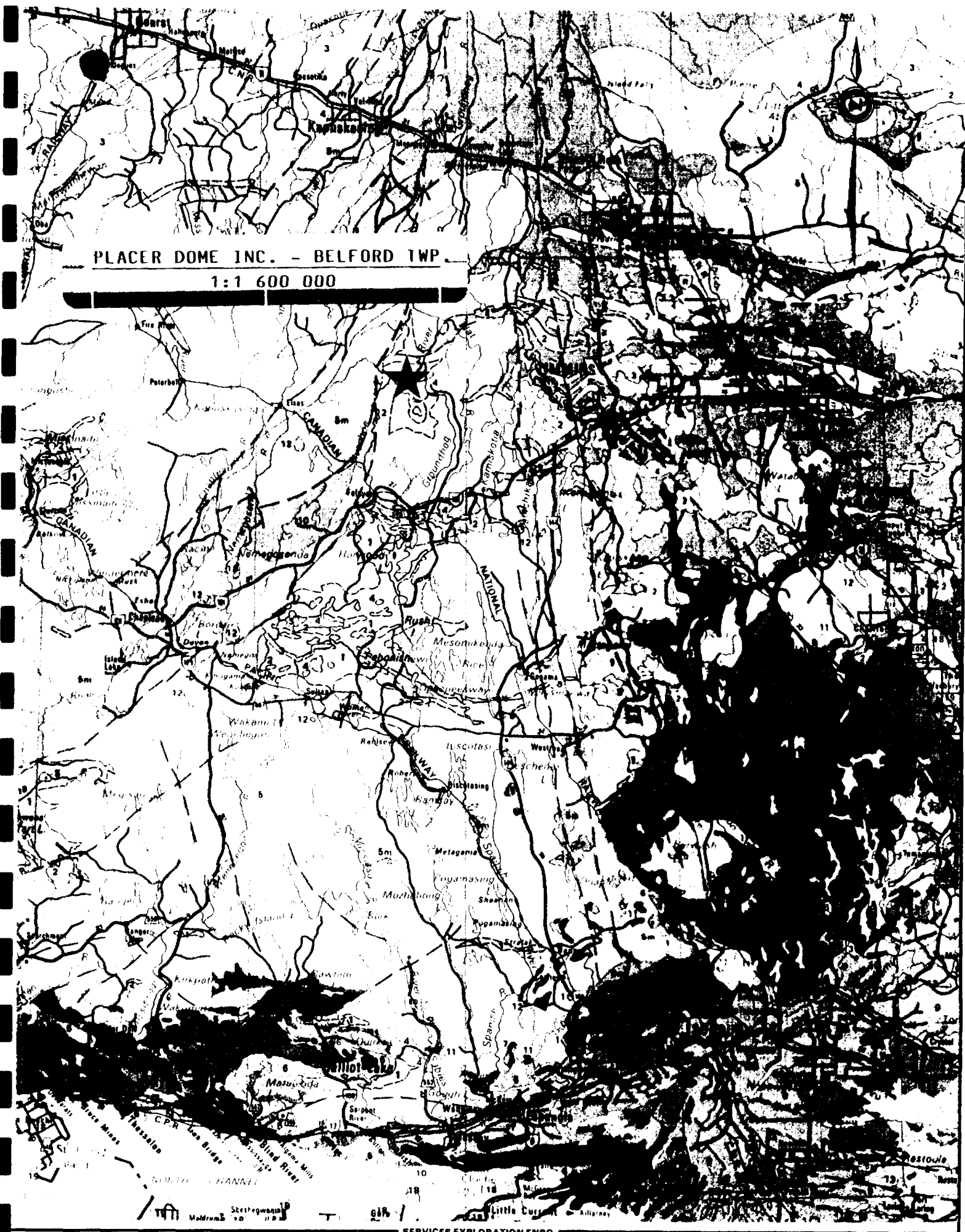
20

SCALE = 1 : 100 000

10



PLACER DOME INC. - BELFORD TWP.  
1:1 000 000



PLACER DOME INC. - BELFORD TWP.

1:1 600 000



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.

2.14084

Type of Survey(s) Magnetic & Electromagnetic
Township or Area Belford
Claim Holder(s) PLACER DOME INC.
Survey Company Exploration Services Reg'D
Author of Report E. Chartré
Address of Author 765 boul. Québec, Rouyn-noranda Qc
Covering Dates of Survey March 14 - 22 1991
Total Miles of Line Cut 73.6 Km

MINING CLAIMS TRAVERSED
List numerically

- P 1160505 P 1160506
P 1160507 P 1160508
P 1160509 P 1160510
P 1160511 P 1160512
P 1160513 P 1160514
P 1160515 P 1160516
P 1160517 P 1160518
P 1160519 P 1160520
P 1160521 P 1160522
P 1160523 P 1160524
P 1160531 P 1160532
P 1160533 P 1160534
P 1160535 P 1160661
P 1160662 P 1160663
P 1160664 P 1160665
P 1160666 P 1160667
P 1160668 P 1160669
P 1160670 P 1160671
P 1160672 P 1160673
P 1160674 P 1160675
P 1160676 P 1160677
P 1160678 P 1160679
P 1160680

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

- Geophysical
-Electromagnetic
-Magnetometer
-Radiometric
-Other
Geological
Geochemical

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

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Apr. 23, 1991 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2.14/15

Previous Surveys

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

TOTAL CLAIMS 45

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Mag survey 5 888 E.M. 2 624 Number of Readings Mag 5 888 EM 10496
Station interval Mag 12.5 M E.M. 25 M Line spacing 100 M
Profile scale 1 cm = 20%
Contour interval 50 gammas

MAGNETIC

Instrument E.D.A. OMNI IV
Accuracy - Scale constant 1 gamma
Diurnal correction method base station
Base Station check-in interval (hours) 10 secs
Base Station location and value B.L. 0+00

ELECTROMAGNETIC

Instrument Maxmin II
Coil configuration Horizontal loop
Coil separation 200 M
Accuracy 1%
Method: [ ] Fixed transmitter [ ] Shoot back [x] In line [ ] Parallel line
Frequency 444 & 1777 Hz (specify V.L.F. station)
Parameters measured in phase and out of phase

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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROJECT 441

**Report of Work**  
(Geophysical, Geological and Geochemical Surveys)

**Mining Act**

Instructions

- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

|  |   |  |
|--|---|--|
| Type of Survey(s)<br><b>Magnetic &amp; Electromagnetic Surveys</b>   | Mining Division<br><b>Porcupine</b>   | Township or Area<br><b>Belford, Montcalm</b> |
| Recorded Holder(s)<br><b>Placer Dome Inc.</b>  | <b>2.14084</b>  |  |
| Address<br><b>P.O. Box 350, Suite 3500, IBM Tower, TD Centre, Toronto, Ont. M5K 1N3</b>                            | Prospector's Licence No.<br><b>T-837</b>  | Telephone No.<br><b>416 868-6060</b>         |
| Survey Company<br><b>Exploration Services Reg'd</b>  | Date of Survey (from & to)<br><b>14 03 91 22 03 91</b><br>Day   Mo.   Yr.   Day   Mo.   Yr. |  |
| Name and Address of Author (of Geo-Technical Report)<br><b>E. Chartre, 765 Boul. Quebec, Rouyn-Noranda, Quebec</b> |   |  |

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

| Special Provisions   | Geophysical  | Days per Claim |
|--|--|----------------|
| For first survey:  | - Electromagnetic  | 40             |
| Enter 40 days. (This includes line cutting)                        | - Magnetometer   | 20             |
| For each additional survey: using the same grid:                   | - Other  |                |
| Enter 20 days (for each)   | Geological   |                |
|  | Geochemical  |                |
| Man Days   | Geophysical  | Days per Claim |
| Complete reverse side and enter total(s) here                      | - Electromagnetic  |                |
|  | - Magnetometer   |                |
|  | - Other  |                |
|  | Geological   |                |
|  | Geochemical  |                |
| Airborne Credits   | Electromagnetic  | Days per Claim |
| Note: Special provisions credits do not apply to Airborne Surveys. | Magnetometer   |                |
|  | Other  |                |
| Total miles flown over claim(s).                                   |  |                |
| Date<br><b>April 26/91</b>   | Recorded Holder or Agent (Signature)<br><i>[Signature]</i> |                |

| Mining Claim  |        | Mining Claim |        | Mining Claim |                  |
|---|--------|--------------|--------|--------------|------------------|
| Prefix  | Number | Prefix       | Number | Prefix       | Number           |
| See Schedule "A"  |        |              |        |              |                  |
| <b>RECEIVED</b>   |        |              |        |              |                  |
| JUN 12 1991   |        |              |        |              |                  |
| MINING LANDS SECTION  |        |              |        |              |                  |
| <b>RECORDED</b>   |        |              |        |              |                  |
| MAY - 2 1991  |        |              |        |              |                  |
| Total number of mining claims covered by this report of work. |        |              |        |              | <b>45 Claims</b> |

Certification Verifying Report of Work

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

Name and Address of Person Certifying

**J. Gardiner, District Geologist**

P.O. Box 670  
South Porcupine, Ontario  
POW 1H0

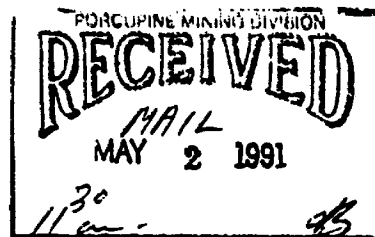
Telephone No.  
**705 235-8022**

Date  
**April 26/91**

Certified By (Signature)  
*[Signature]*

For Office Use Only

|  |   |  |
|--|---|--|
| Total Days Cr. Recorded<br><b>2700</b> | Date Recorded<br><b>MAY 2/91</b>                  | Mining Recorder<br><i>[Signature]</i>                  |
|  | Date Approved as Recorded<br><b>JUNE 13, 1991</b> | Provincial Manager, Mining Lands<br><i>[Signature]</i> |





SCHEDULE "A"

| CLAIM<br>PREFIX | CLAIM<br>NUMBER | DAYS<br>WORK |
|-----------------|-----------------|--------------|
| P               | 1160505         | 60           |
| P               | 1160506         | 60           |
| P               | 1160507         | 60           |
| P               | 1160508         | 60           |
| P               | 1160509         | 60           |
| P               | 1160510         | 60           |
| P               | 1160511         | 60           |
| P               | 1160512         | 60           |
| P               | 1160513         | 60           |
| P               | 1160514         | 60           |
| P               | 1160515         | 60           |
| P               | 1160516         | 60           |
| P               | 1160517         | 60           |
| P               | 1160518         | 60           |
| P               | 1160519         | 60           |
| P               | 1160520         | 60           |
| P               | 1160521         | 60           |
| P               | 1160522         | 60           |
| P               | 1160523         | 60           |
| P               | 1160524         | 60           |
| P               | 1160531         | 60           |
| P               | 1160532         | 60           |
| P               | 1160533         | 60           |
| P               | 1160534         | 60           |
| P               | 1160535         | 60           |
| P               | 1160661         | 60           |
| P               | 1160662         | 60           |
| P               | 1160663         | 60           |
| P               | 1160664         | 60           |
| P               | 1160665         | 60           |
| P               | 1160666         | 60           |
| P               | 1160667         | 60           |
| P               | 1160668         | 60           |
| P               | 1160669         | 60           |
| P               | 1160670         | 60           |
| P               | 1160671         | 60           |
| P               | 1160672         | 60           |
| P               | 1160673         | 60           |
| P               | 1160674         | 60           |
| P               | 1160675         | 60           |
| P               | 1160676         | 60           |
| P               | 1160677         | 60           |
| P               | 1160678         | 60           |
| P               | 1160679         | 60           |
| P               | 1160680         | 60           |

\*\*\* Total \*\*\*

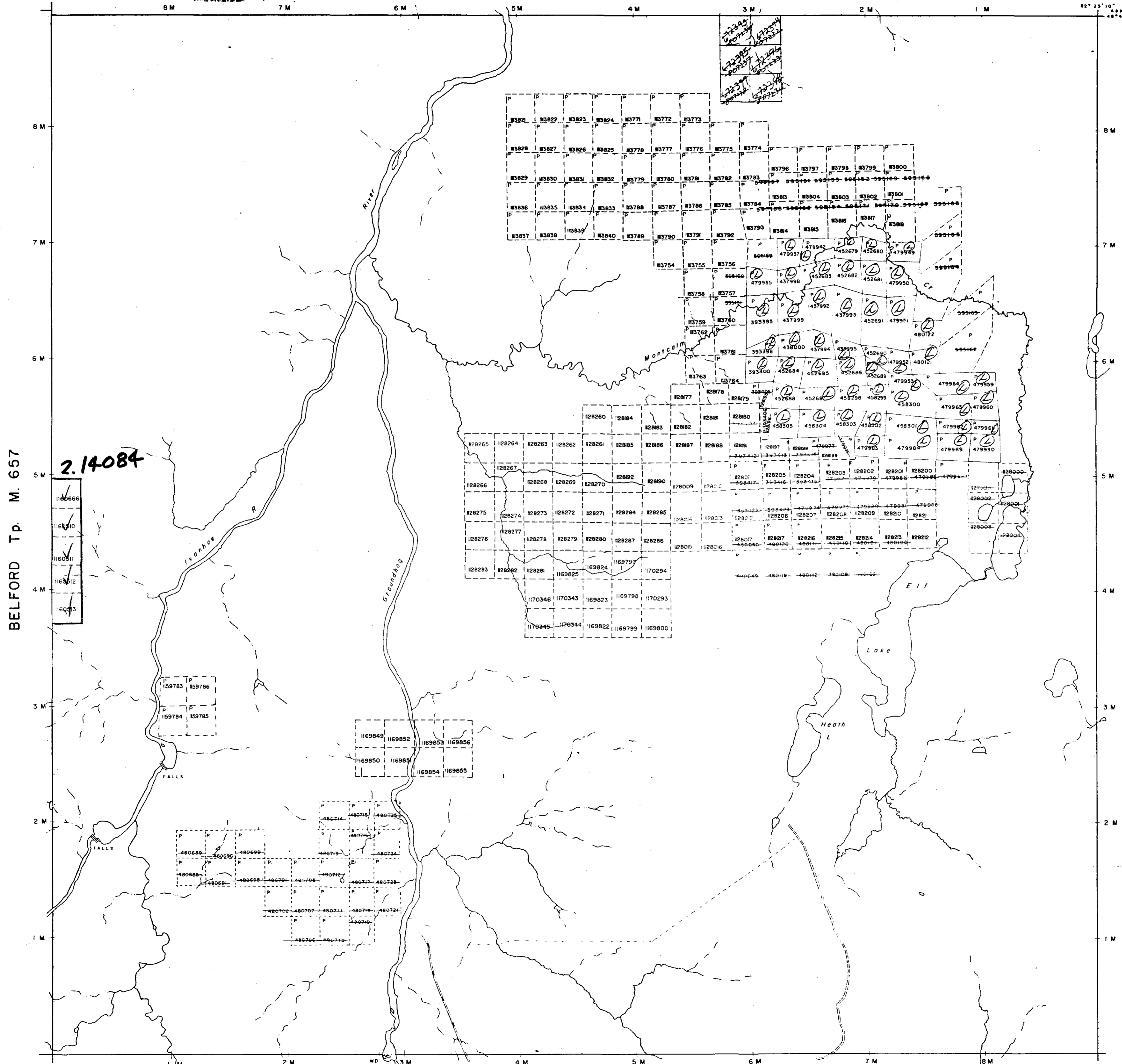
2700

726

NOTES

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

POULETT Tp. M. 1063



2.14084

BELFORD TP. M. 657

FORTUNE TP. M. 813

STRACHAN Tp. M. 1142

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS MINISTRY OF



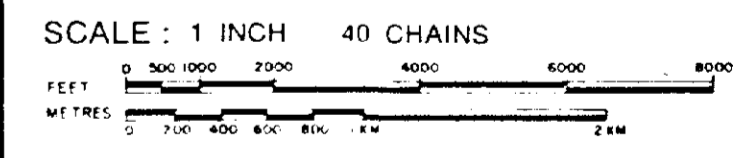
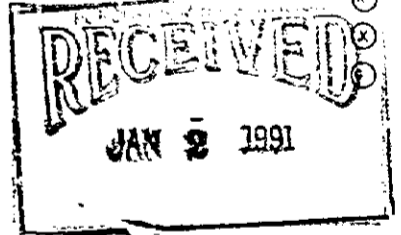
200

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                | ○      |
| ORDER-IN-COUNCIL               | OC     |
| RESERVATION                    | ◎      |
| CANCELLED                      | ○      |
| SAND & GRAVEL                  | ○      |



| ACRES | HECTARES |
|-------|----------|
| 40    | 16       |

Received Nov. 5/02

TOWNSHIP  
**MONTCALM**  
 DISTRICT  
 COCHRANE  
 MINING DIVISION  
 PORCUPINE

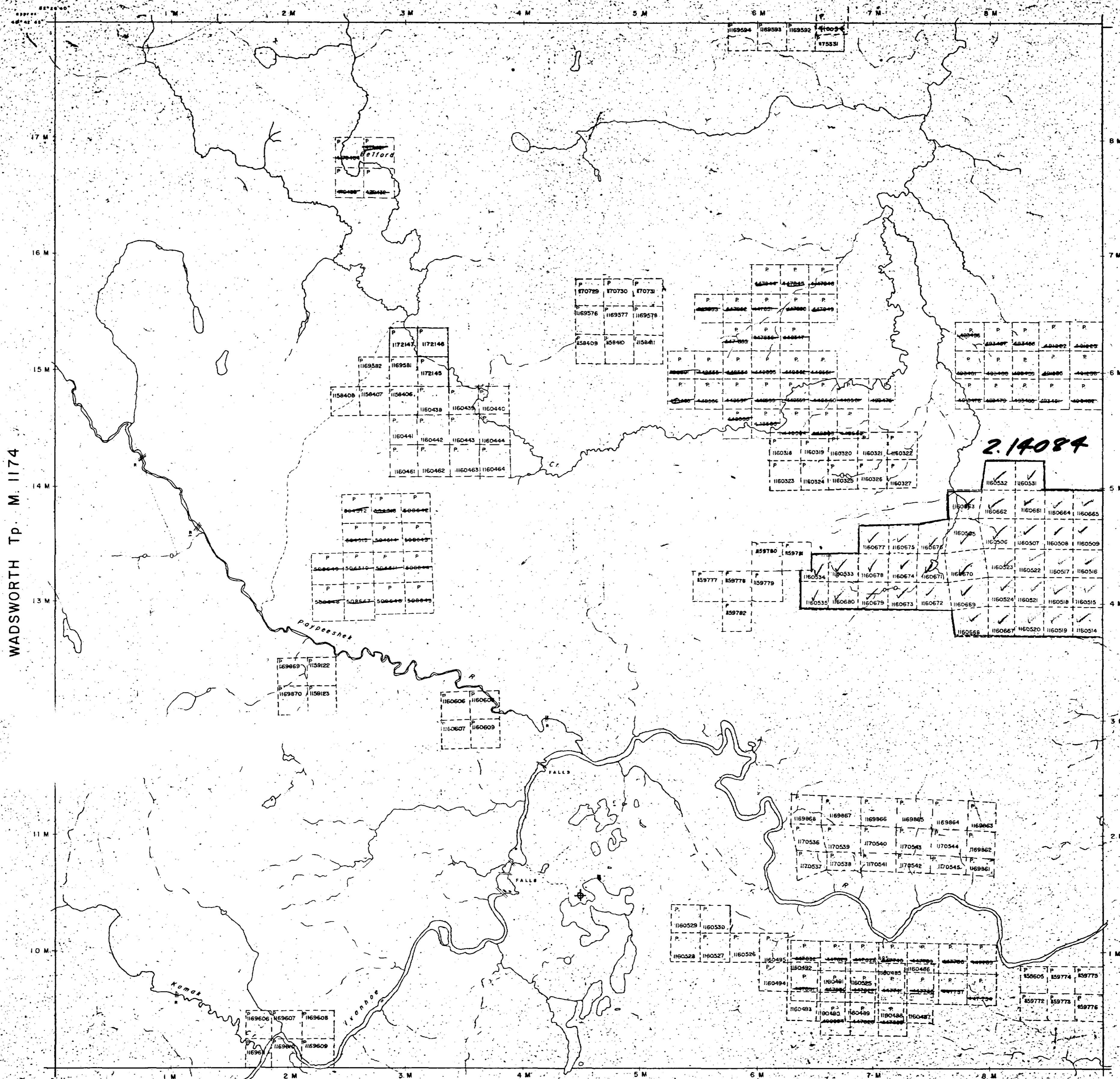
Ministry of Natural Resources  
 Ontario Surveys and Mapping Branch  
 Date: 12 74  
 Plan No. **M. 872**  
 Whitney Block  
 Queen's Park Toronto

NOTES

Surface rights reservation along the shores of lakes and rivers

SAND AND GRAVEL

WATSON Tp. M. 1178



2.14084

LEGEND

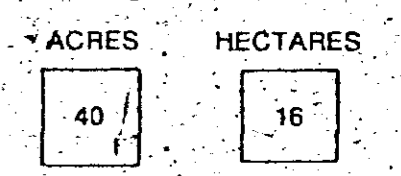
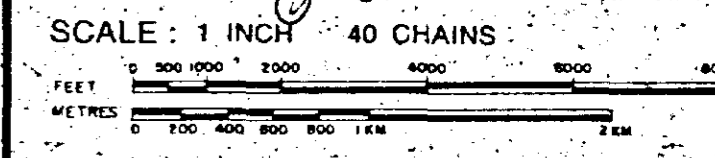
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES.
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES.
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY.
- UTILITY LINES
- NON-PERENNIAL STREAM.
- FLOODING OR FLOODING RIGHTS
- 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                 | ○      |
| ORDER-IN-COUNCIL                | OC     |
| RESERVATION                     | ○      |
| CANCELLED                       | ○      |
| SAND & GRAVEL                   | ○      |
| • L.U.P.                        | ○      |

REMOTE TOURIST CAMPS

Received Jan 7/80



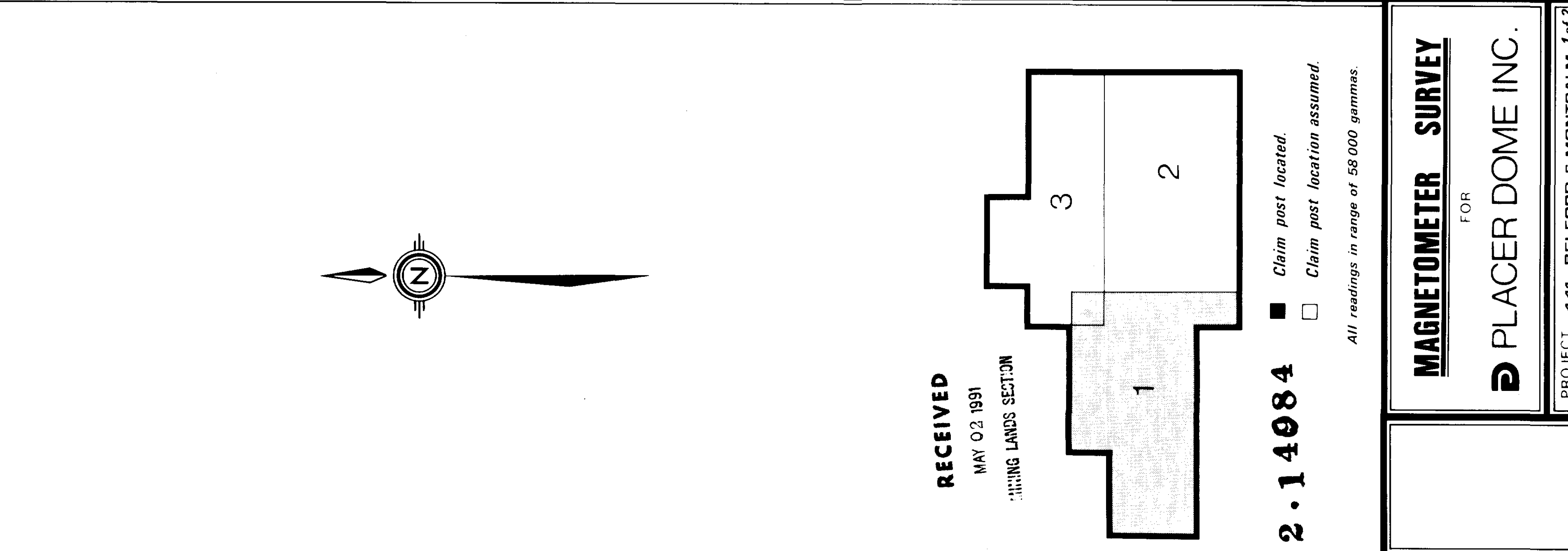
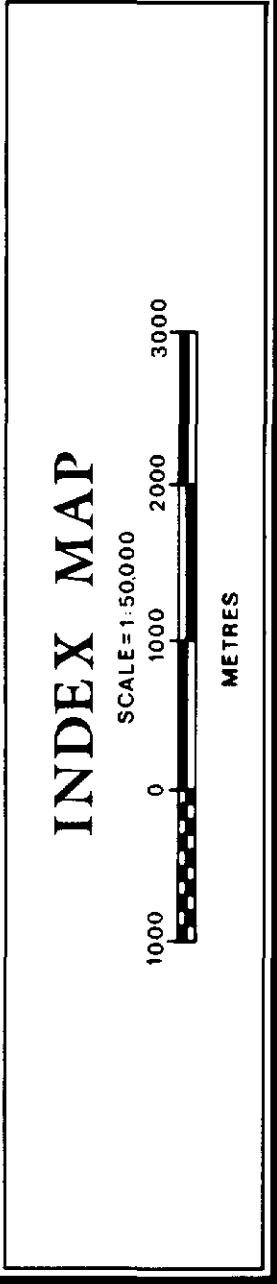
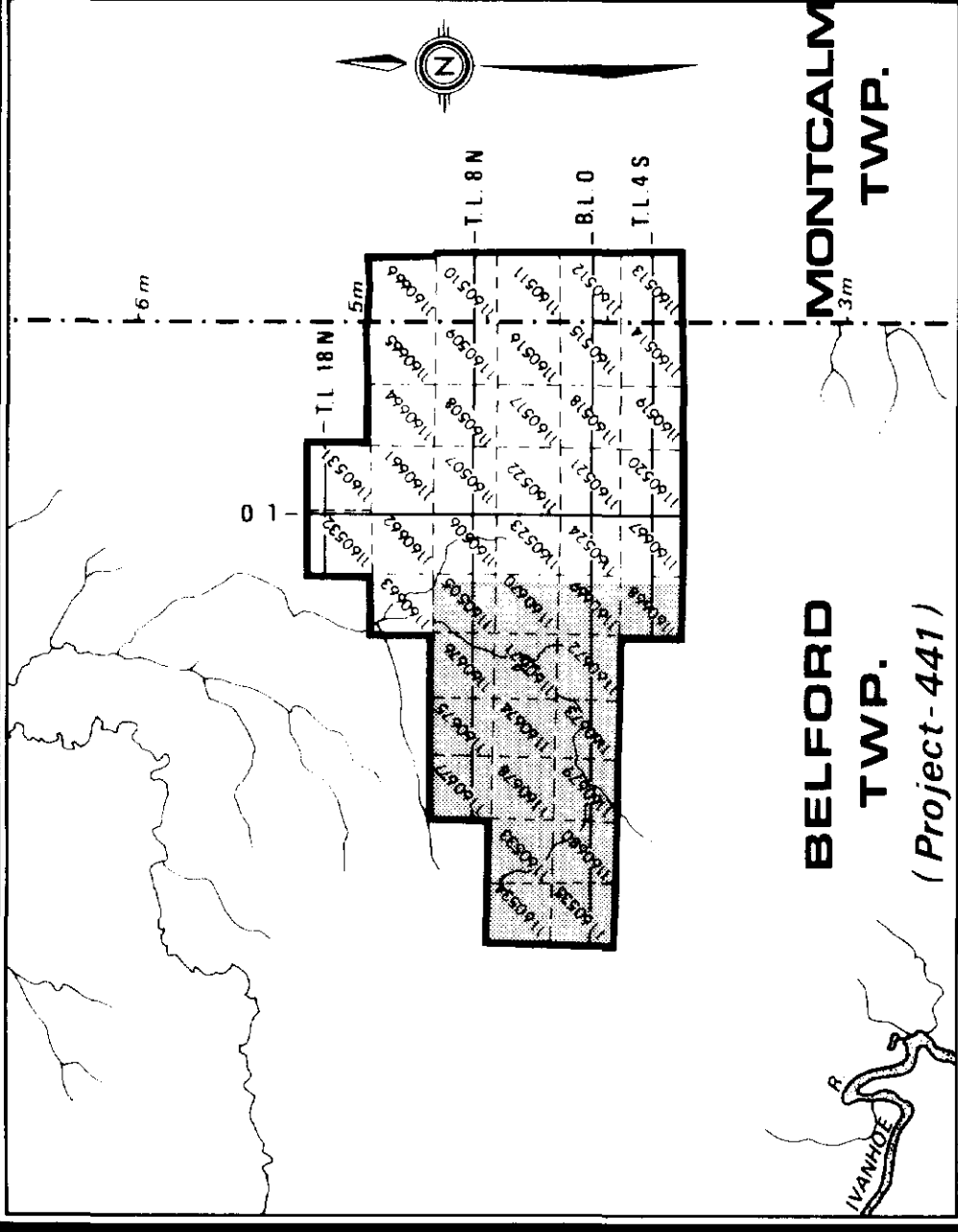
TOWNSHIP  
**BELFORD**  
 DISTRICT  
 COCHRANE  
 MINING DIVISION  
 PORCUPINE

Ministry of Natural Resources  
 Ontario - Surveys and Mapping Branch

Date: \_\_\_\_\_ Plan No. **M. 657**





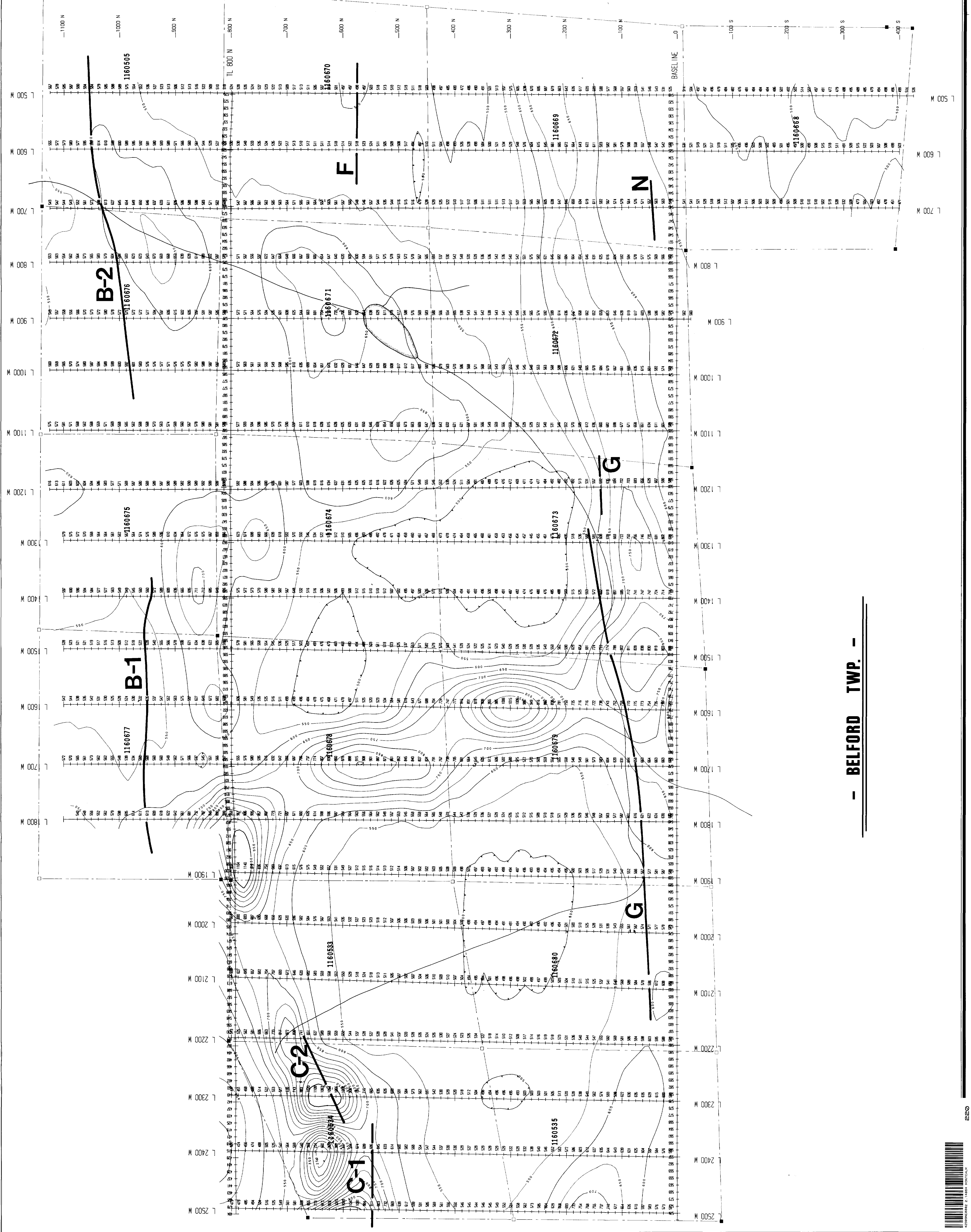


**MAGNETOMETER SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT - 447 - BELFORD & MONTCALM TWP.

SURVEYED BY *L. Meigs, A. Bousquet* DATE *MARCH 1991*  
DRAWN BY *GEORGETTE & SIGNATURE* SCALE *1:2500* ENFR  
SERVICES EXPLORATION SERVICES REGD

Instrument *EDA OMNI IV*  
Operator *W.D. WARDEN*

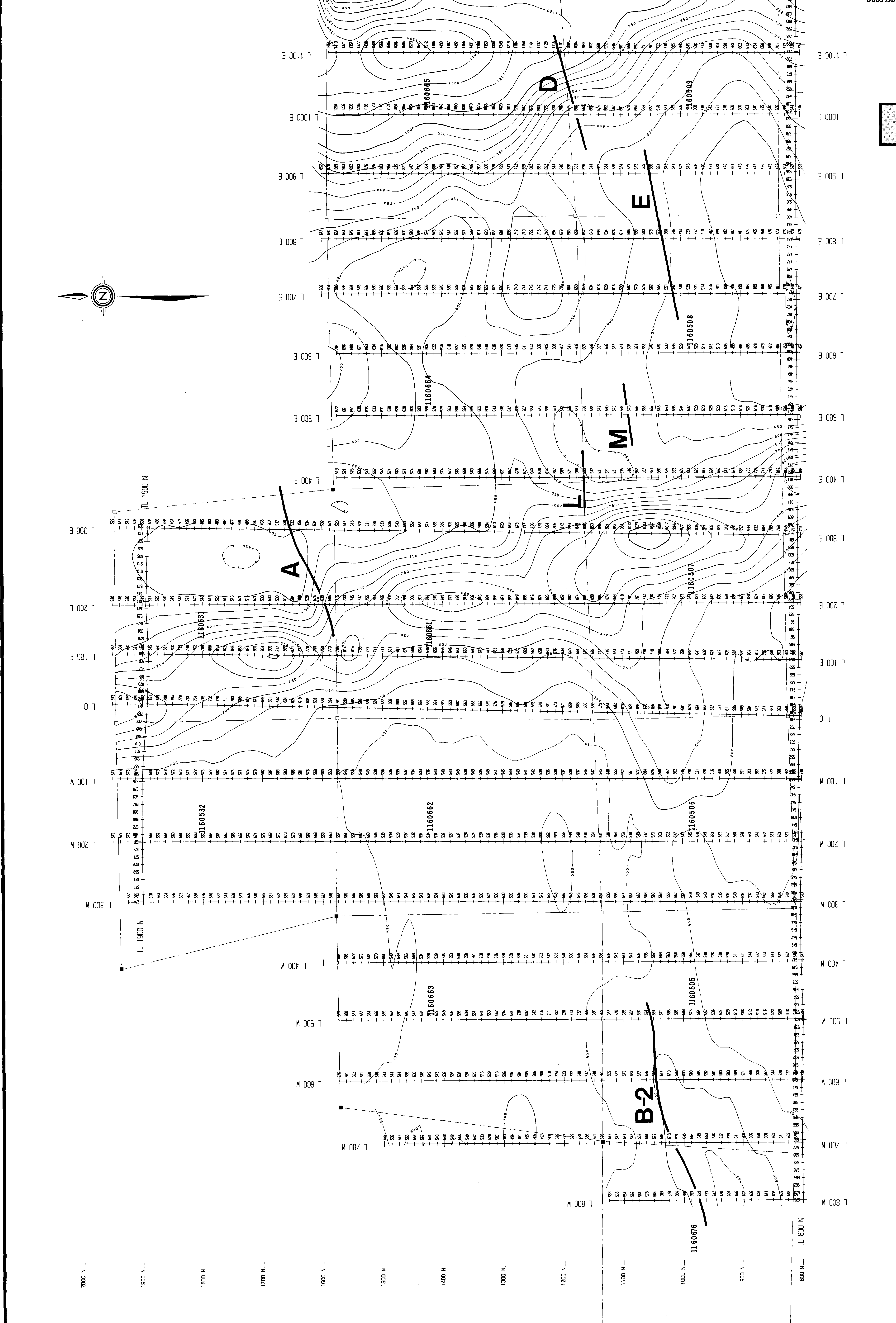
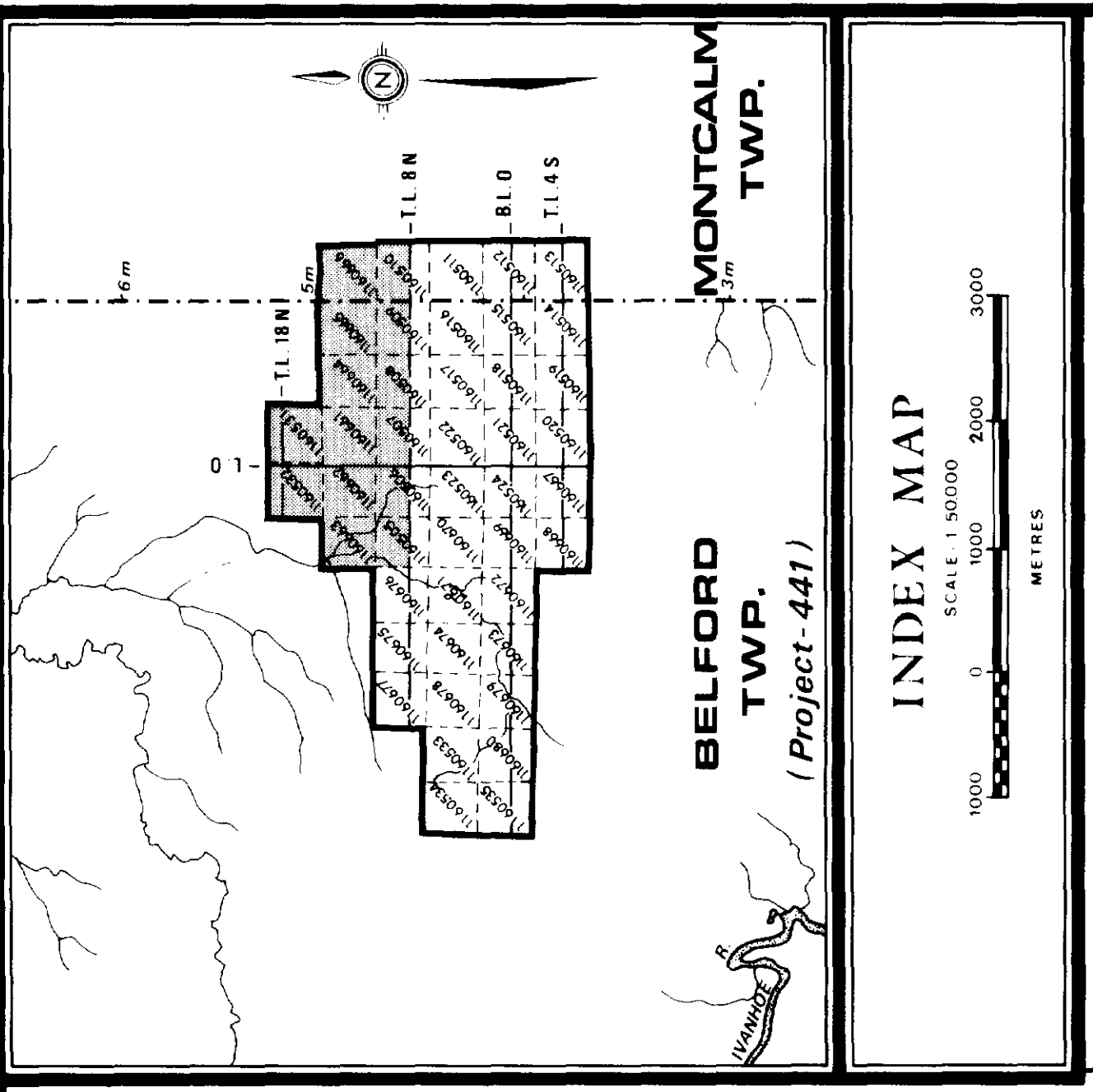


**- BELFORD TWP. -**









**MAGNETOMETER SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT 441- BELFORD & MONTCALM 3 of 3

INSTRUMENT  
**EDA OMNI IV**

DATE **MARCH 1991**

SURVEYED BY **P. Gagné, L. Morin**

DRAWN BY **GGSPRT, S. Senechal**

SCALE **1:2500**

SERVICES **EXPLORATION SERVICES REGD.**

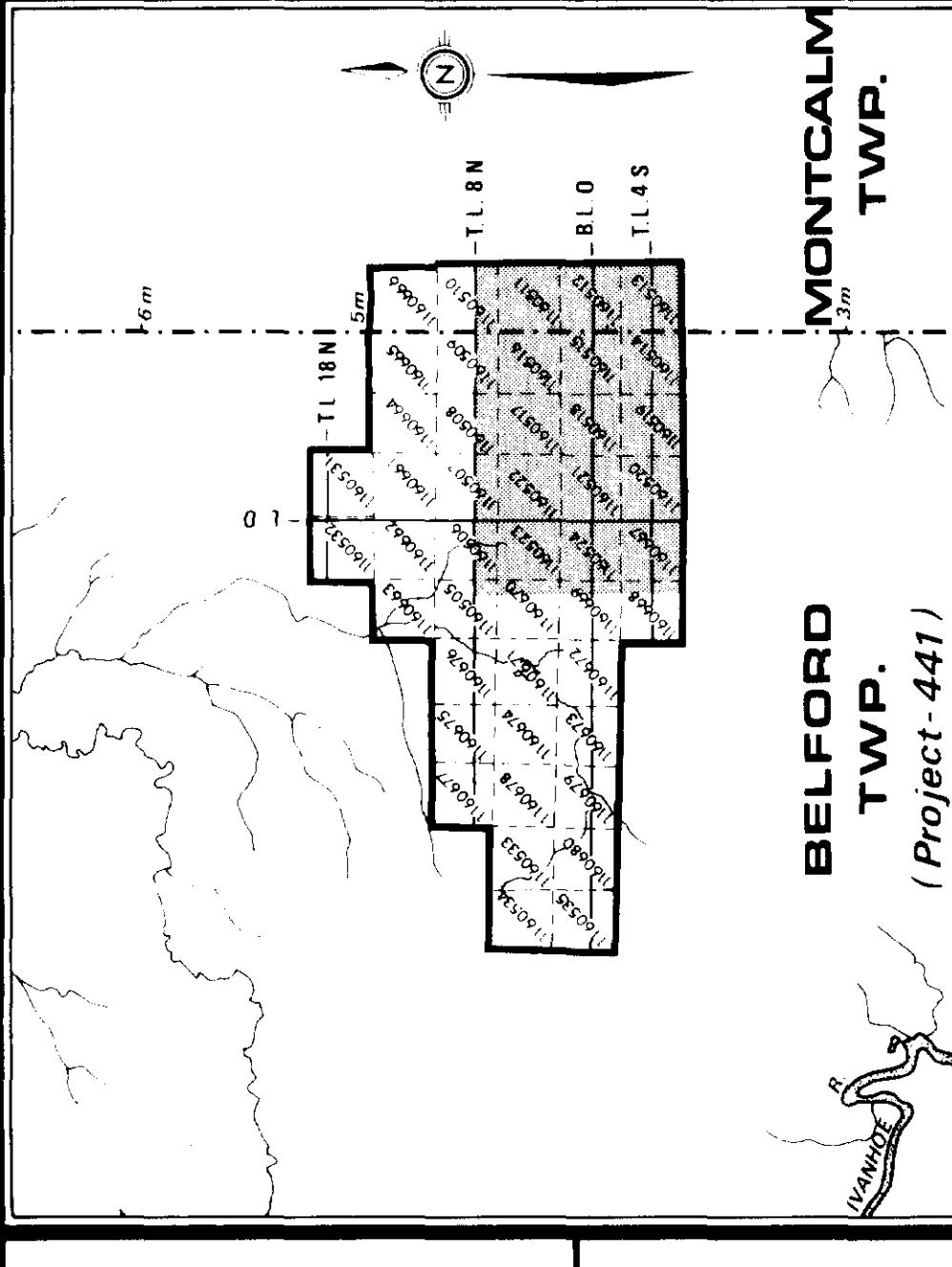
**2-14984**  
MAGNETIC LANDS SECTION  
All readings in range of 50 000 gammas

**RECEIVED**  
MAY 02 1991

Legend:  
 Claim post located  
 Claim post location assumed



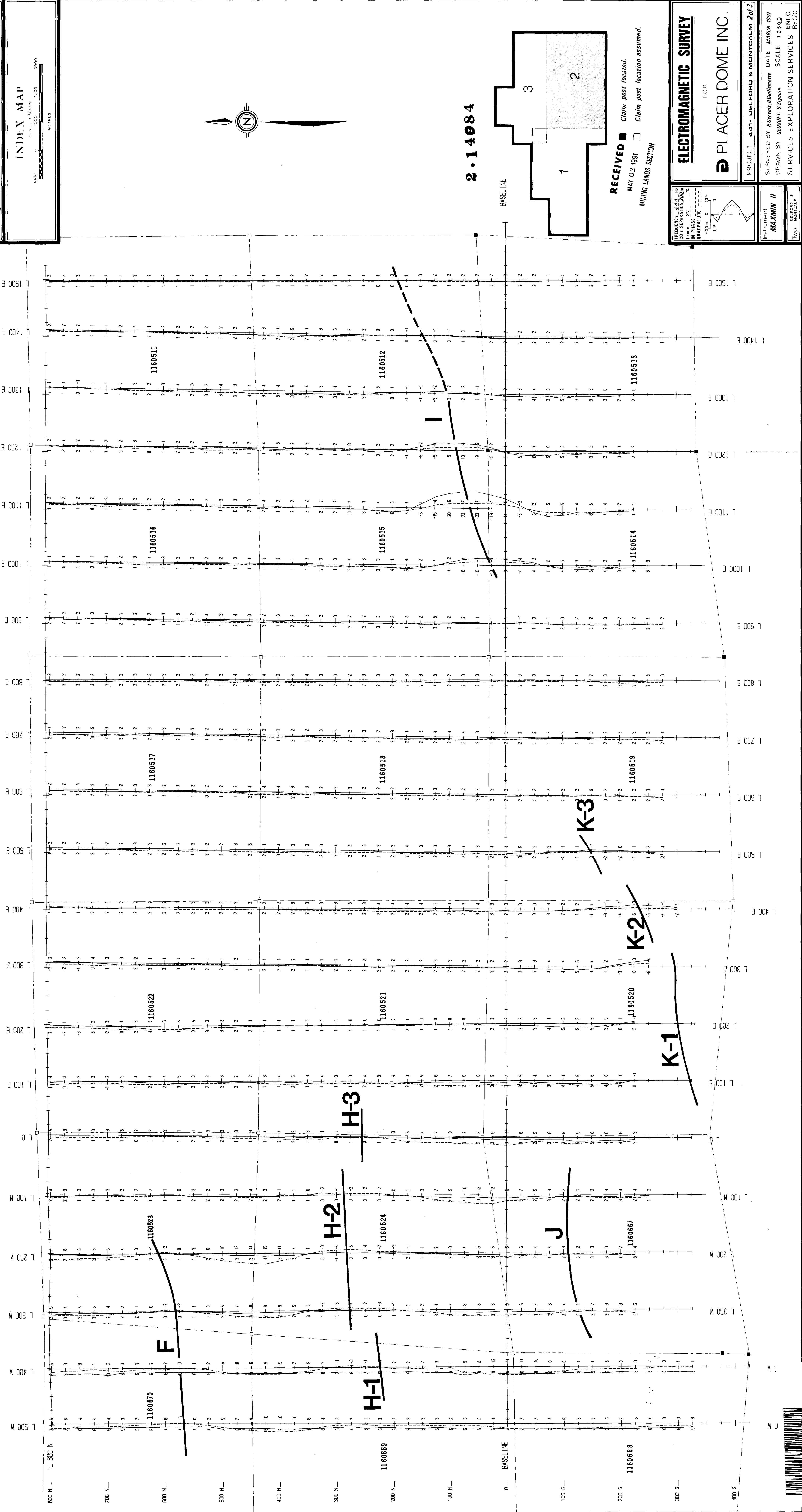
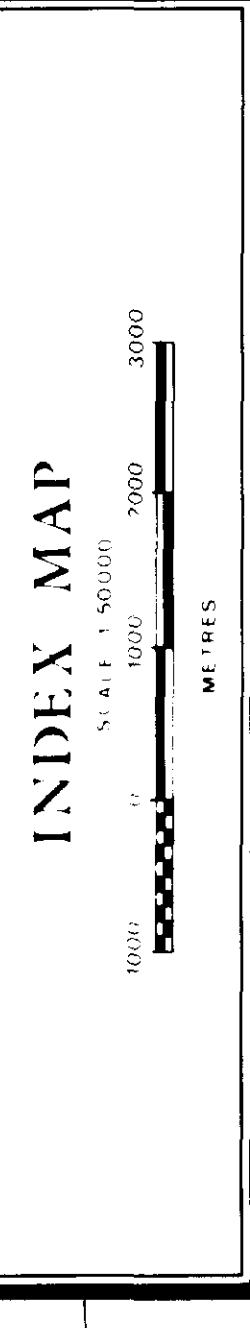




**BELFORD TWP.**  
(Project-441)

**MONTCALM TWP.**

**BELFORD TWP.**  
(Project-441)



**ELECTROMAGNETIC SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT 441- BELFORD & MONTCALM 20/3

SURVEYED BY *Forrest, Rabinowitz* DATE MARCH 1991  
DRAWN BY *66807, Sagan* SCALE 1:2500 ENRG  
SERVICES EXPLORATION SERVICES RECD

Instrument  
**MAXMIN II**  
BELFORD & MONTCALM

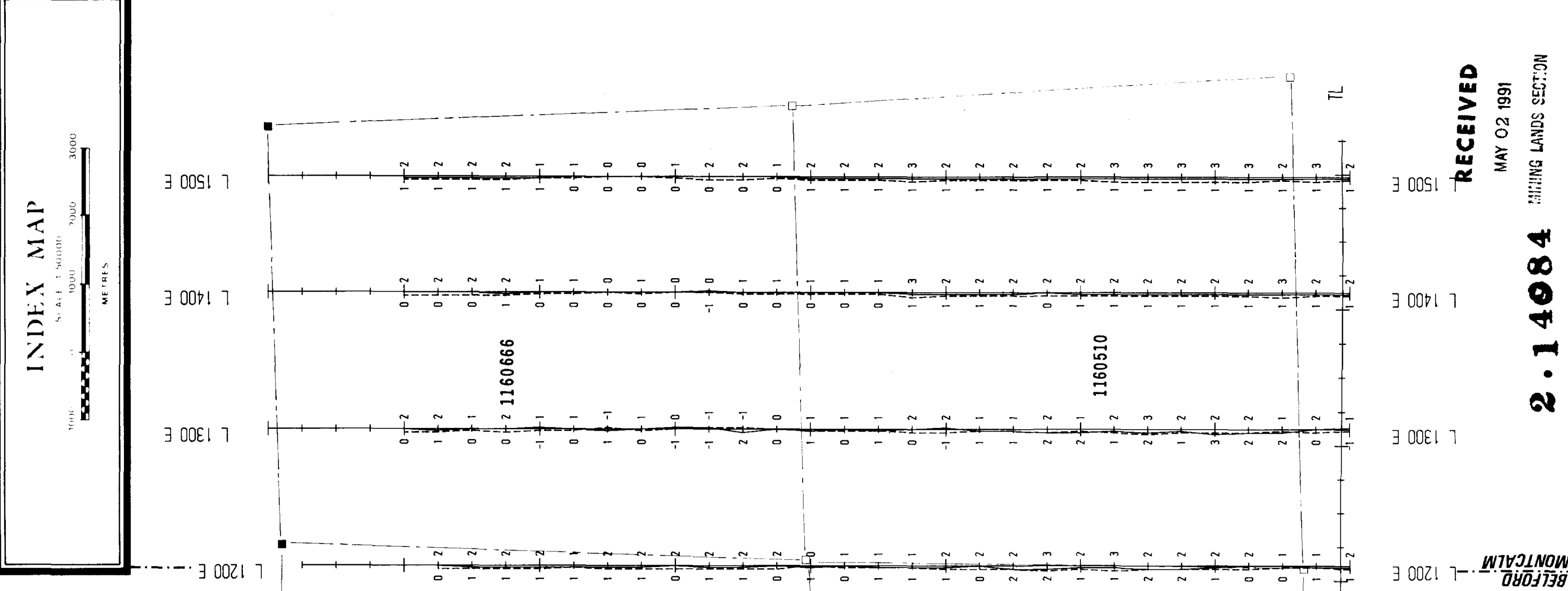
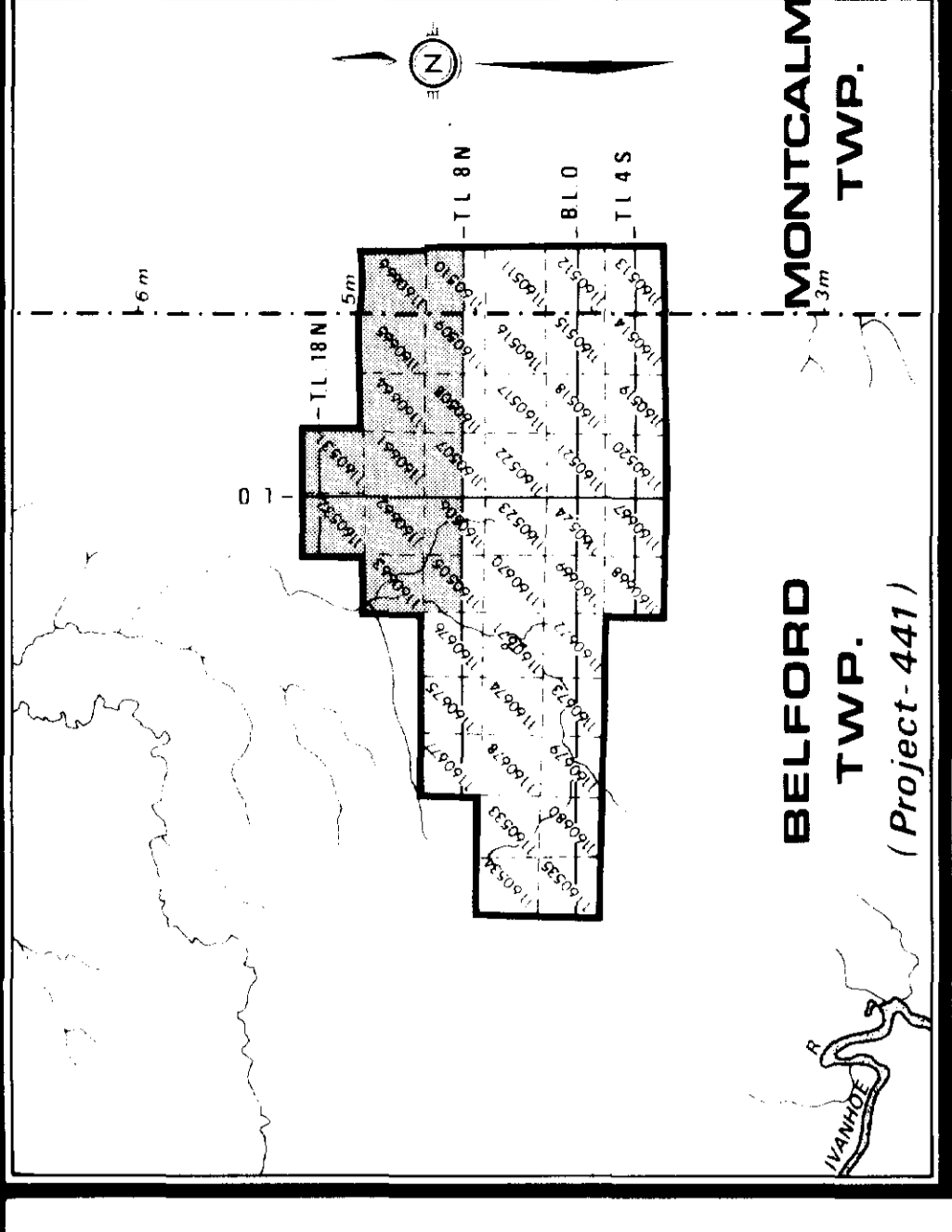
FREQUENCY 444 Hz  
COIL SEPARATION 200m  
IN PHASE  
QUADRATURE

1.0 0.0 0.0  
+20.0 0.0 0.0

RECEIVED  Claim post located  
MAY 02 1991  Claim post location assumed.  
MINING LANDS SECTION







**RECEIVED**  
MAY 02 1991  
MOUNTAIN LANDS SECTION

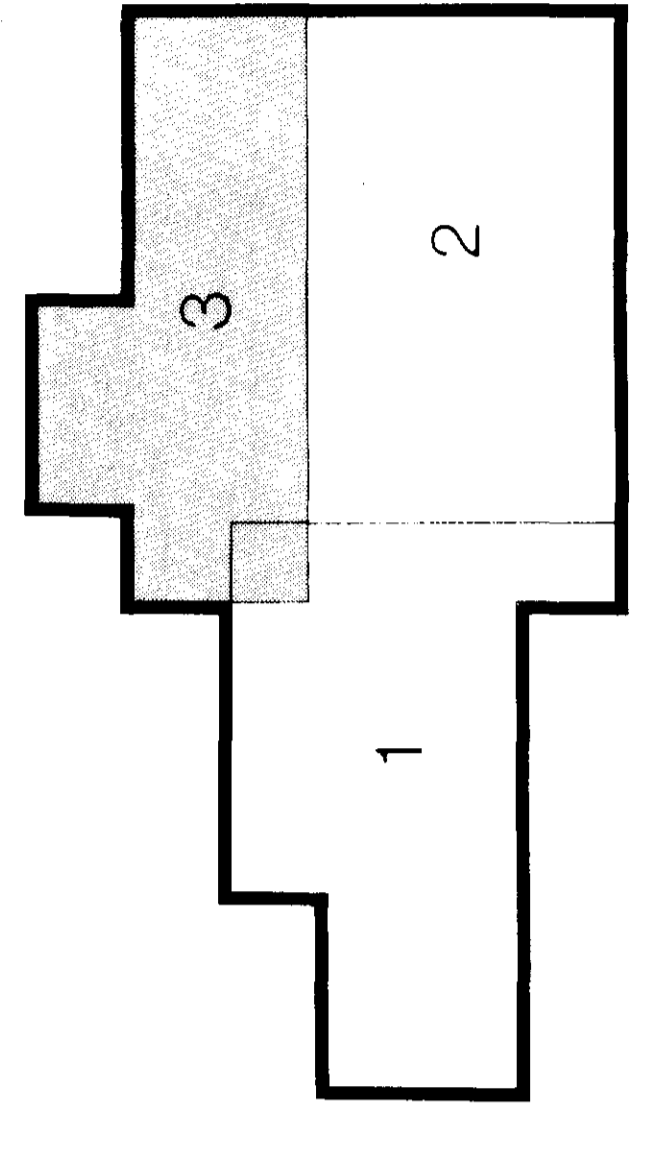
**2.14084**

**ELECTROMAGNETIC SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT - 441 - BELFORD & MONTCALM 3073

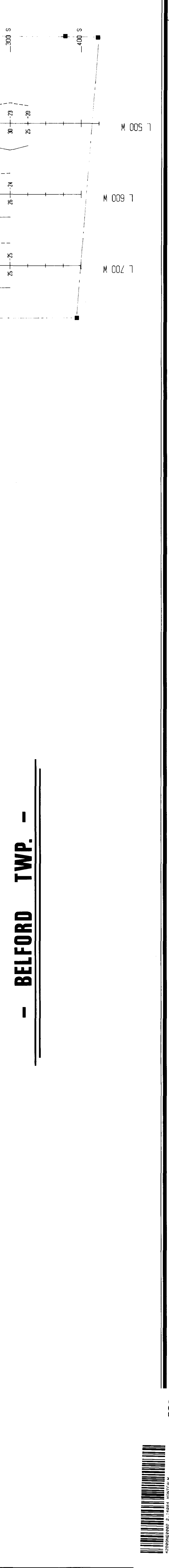
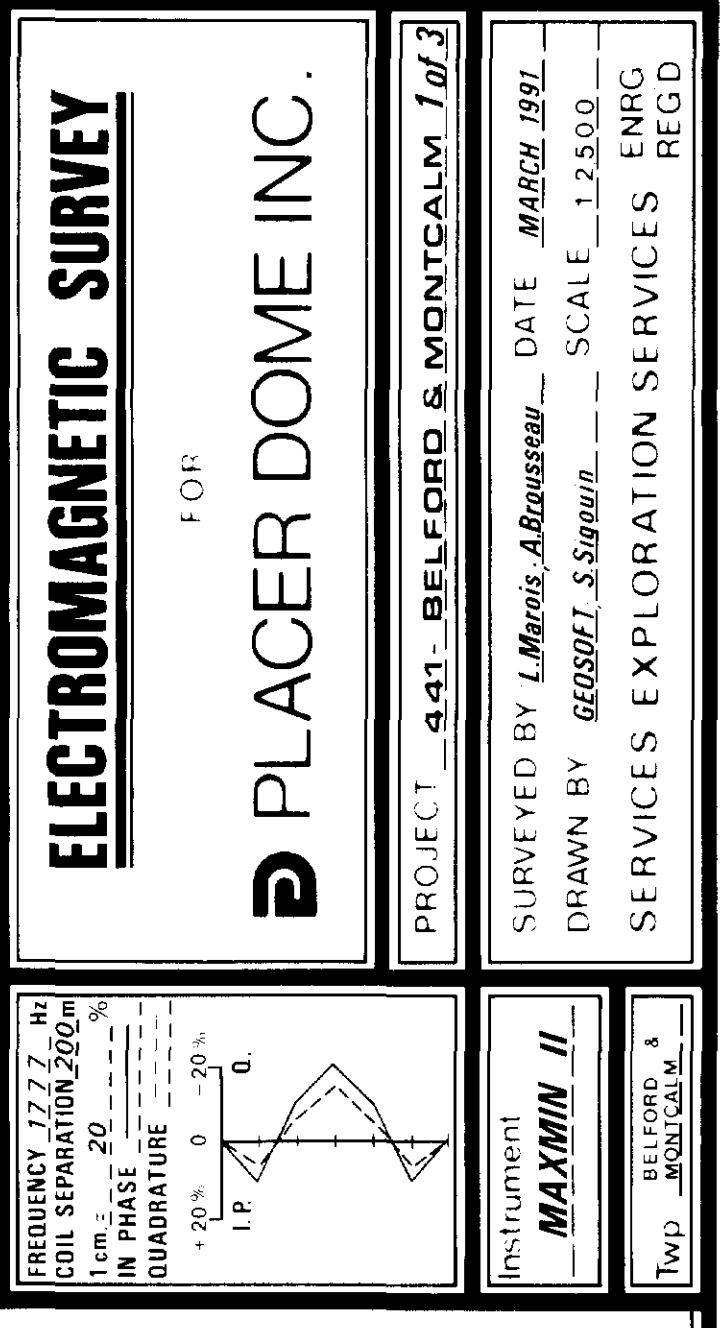
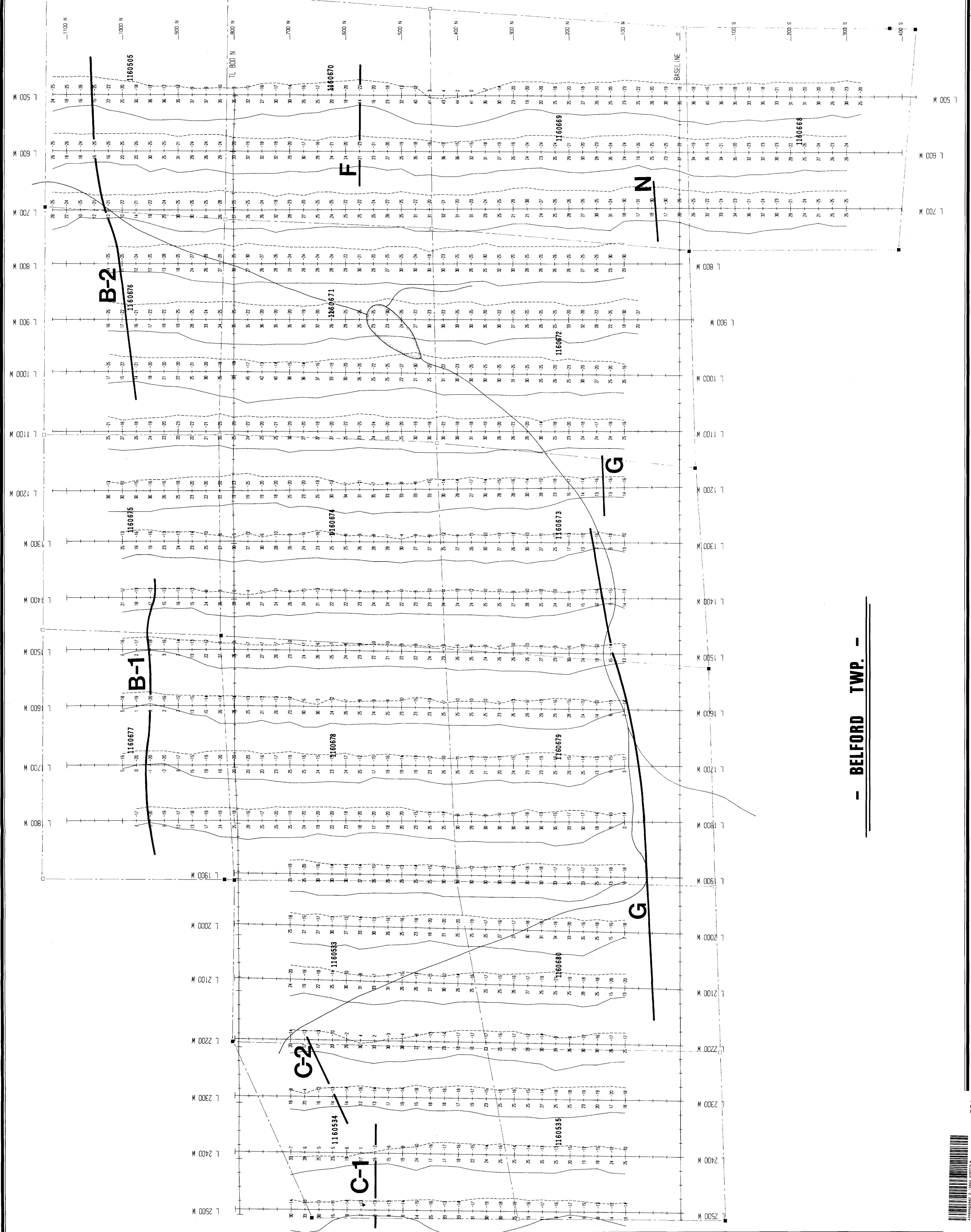
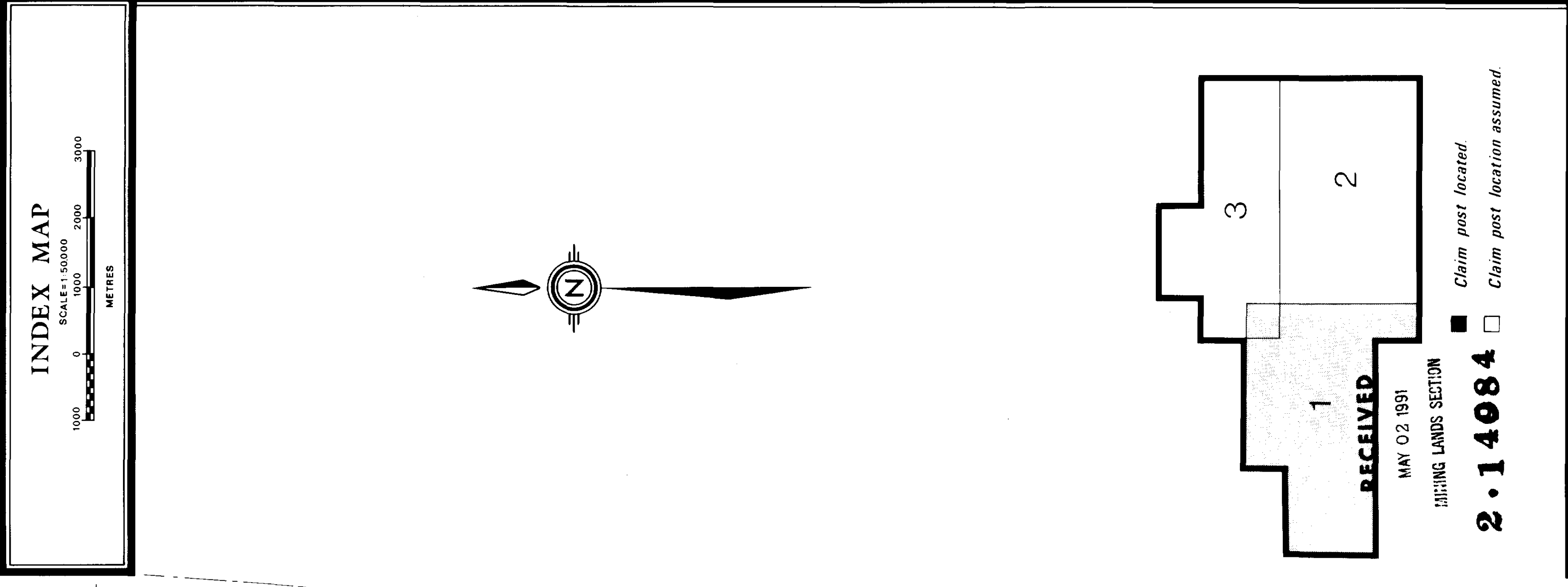
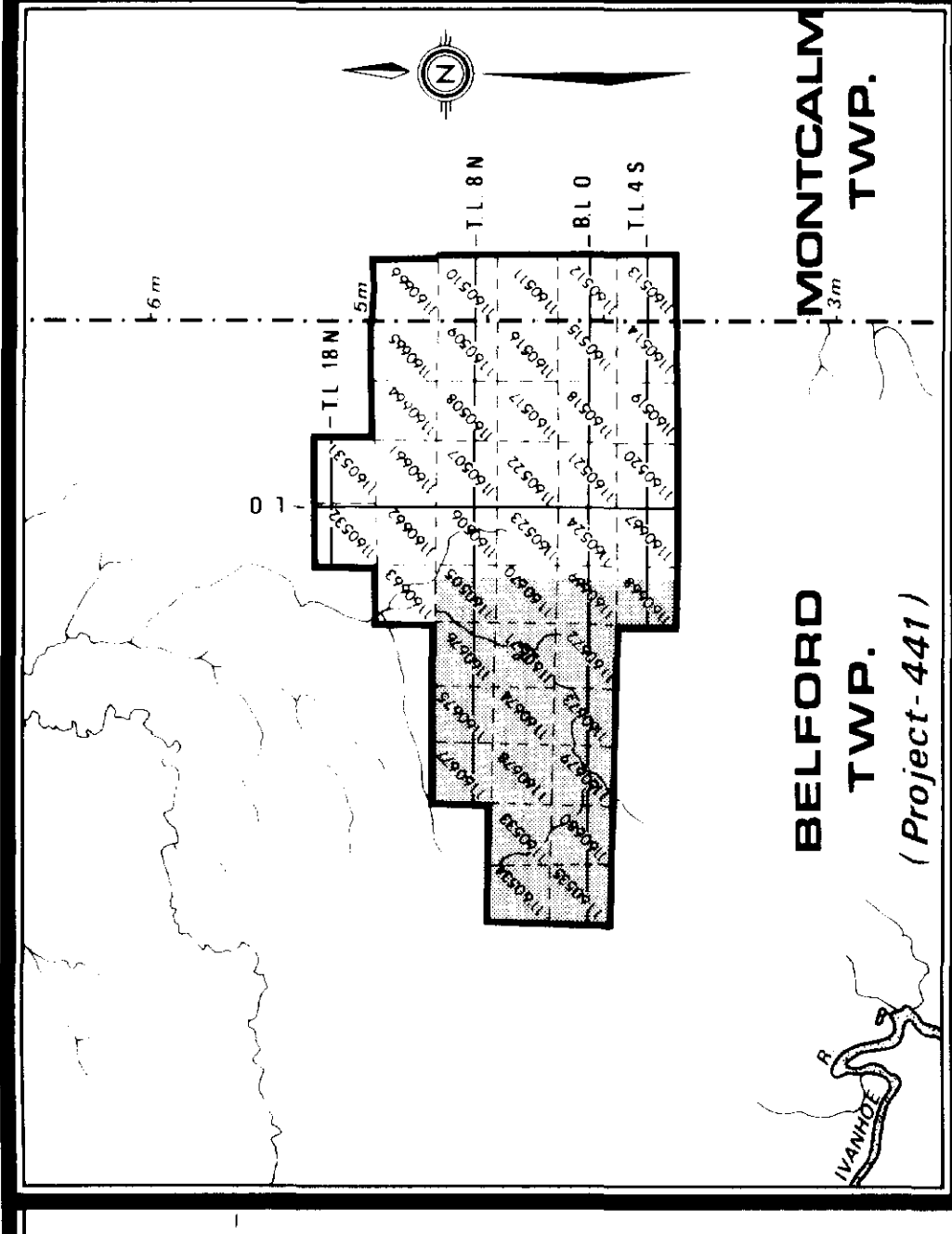
SURVEYED BY *P. Gervais, L. Miras* DATE *MARCH 1991*  
DRAWN BY *GEOFFREY S. Sigouin* SCALE *1:2500*  
SERVICES EXPLOREXION SERVICES ENRG

INSTRUMENT **MAXIM II**  
FREQUENCY *4.4 Hz*  
COIL SEPARATION *200m*  
COIL DIAMETER *20m*  
TEMPERATURE *10°C*  
IP *0*



Claim post located (indicated by a solid square symbol)

Claim post location assumed (indicated by an open square symbol)





**BELFORD TWP.**  
(Project - 441)

**MONTCALM TWP.**

**INDEX MAP**  
SCALE: 1:50000  
METERS

**RECEIVED**  
MAY 02 1991  
MILLING LANDS SECTION

BASELINE

1  
2  
3

**8.14084** Claim post located.  Claim post location assumed.

**ELECTROMAGNETIC SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT: 441- BELFORD & MONTCALM 2d/3

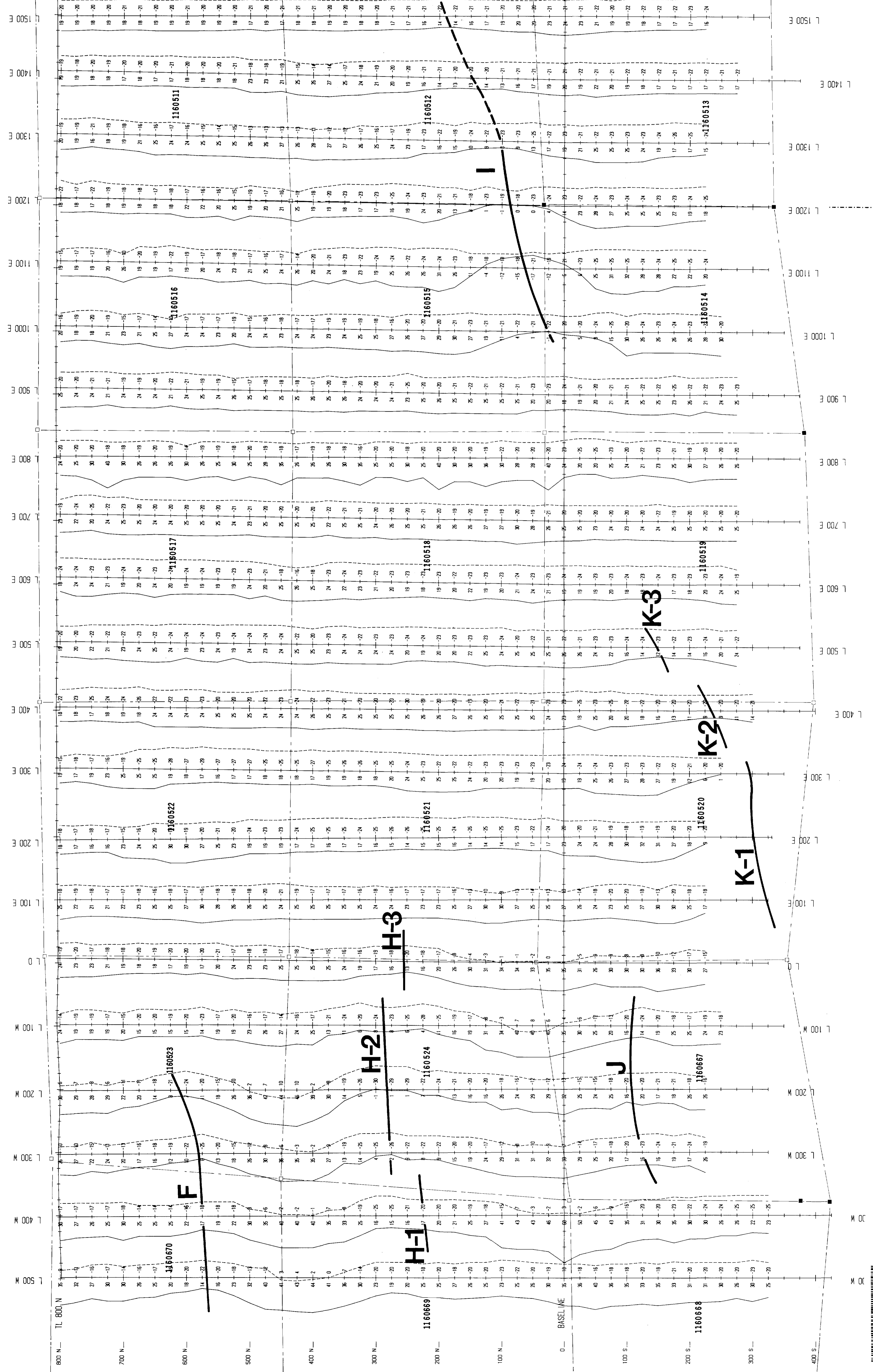
SURVEYED BY: P. Gerwin/Raillette DATE: MARCH 1991  
DRAWN BY: G. S. S. S. SCALE: 1:2500  
SERVICES: EXPLORATION SERVICES ENRG. REGD.

INSURANT: **MAXIM II**  
TWP: MONTCALM

RESISTIVITY 17.72 m  
COIL SEPARATION 200m  
Length 20  
WAVELENGTH 6  
+20% 0 -20%

**MONTCALM TWP.**

**BELFORD TWP.**

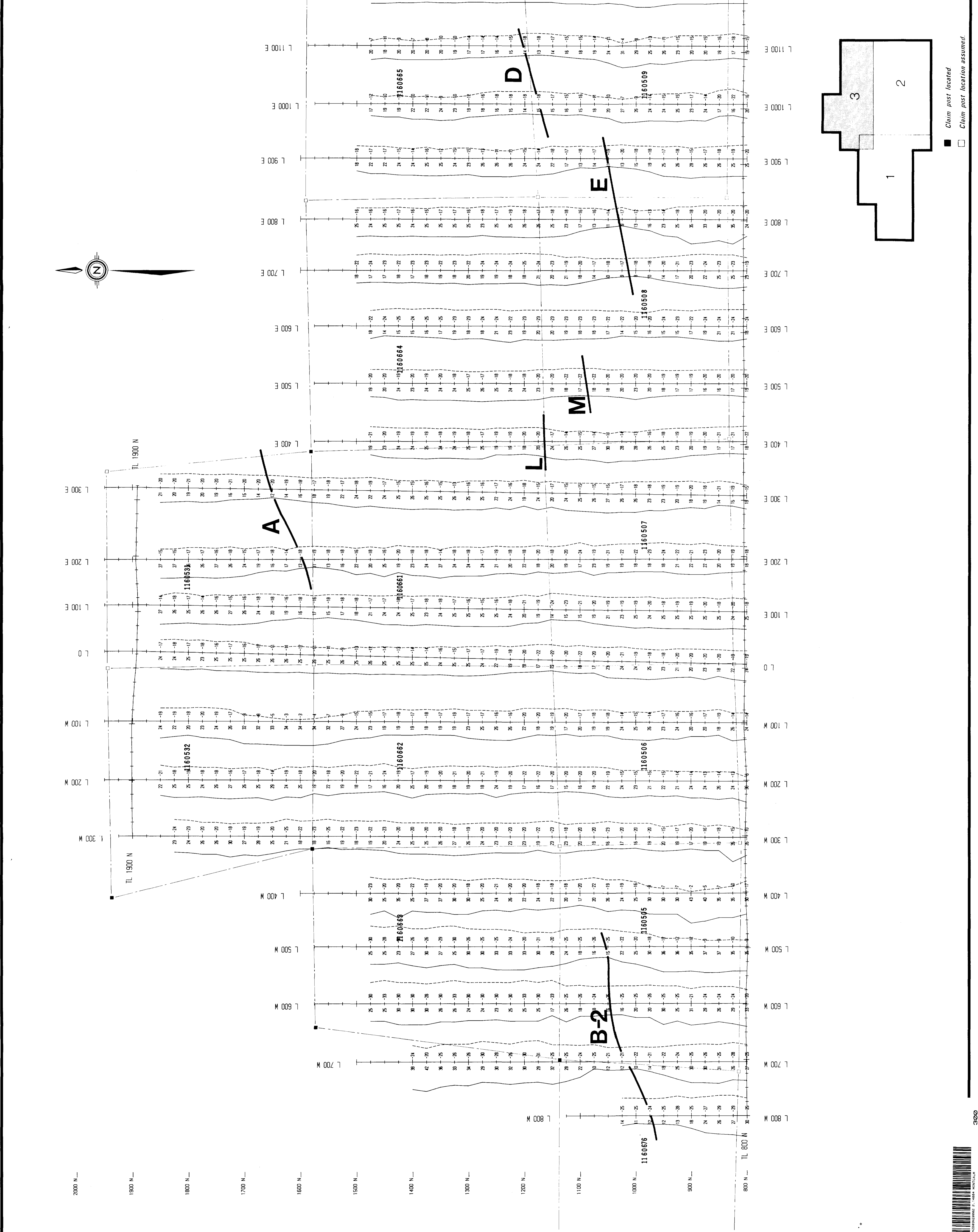


**BELFORD TWP.**  
(Project-441)

**MONTCALM TWP.**

**INDEX MAP**

Scale: 1:50,000  
North Arrow  
Metres



**RECEIVED**  
MAY 02 1991

**2-14084** MINING LANDS SECTION

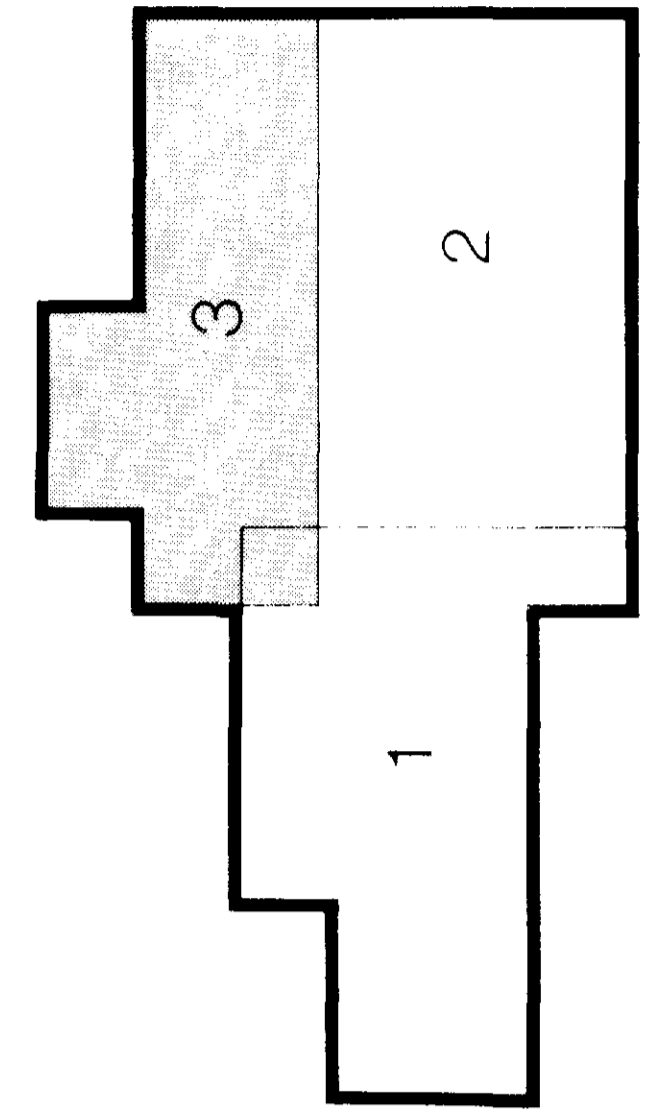
**ELECTROMAGNETIC SURVEY**  
FOR  
**PLACER DOME INC.**

PROJECT: 441- BELFORD & MONTCALM 3 of 3

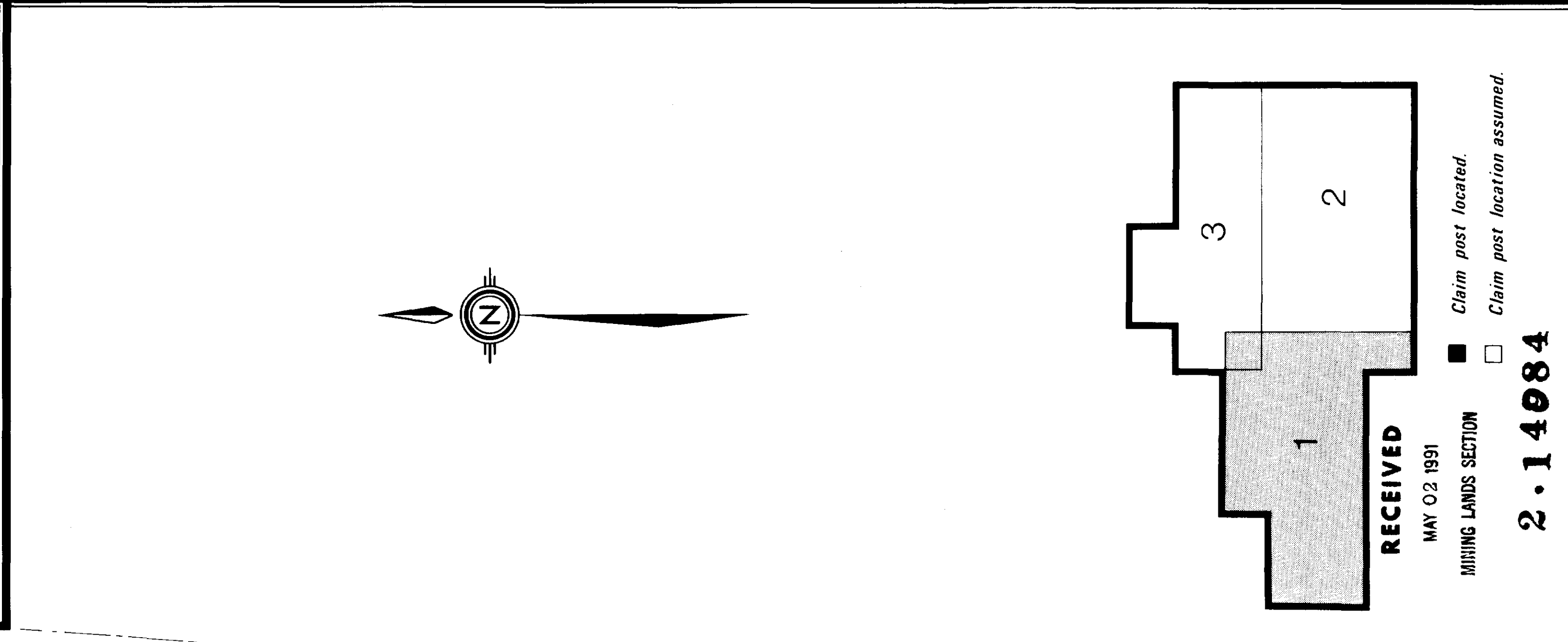
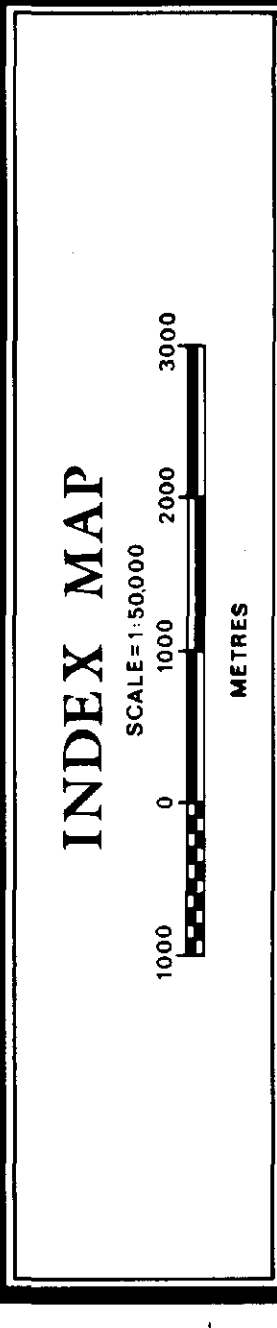
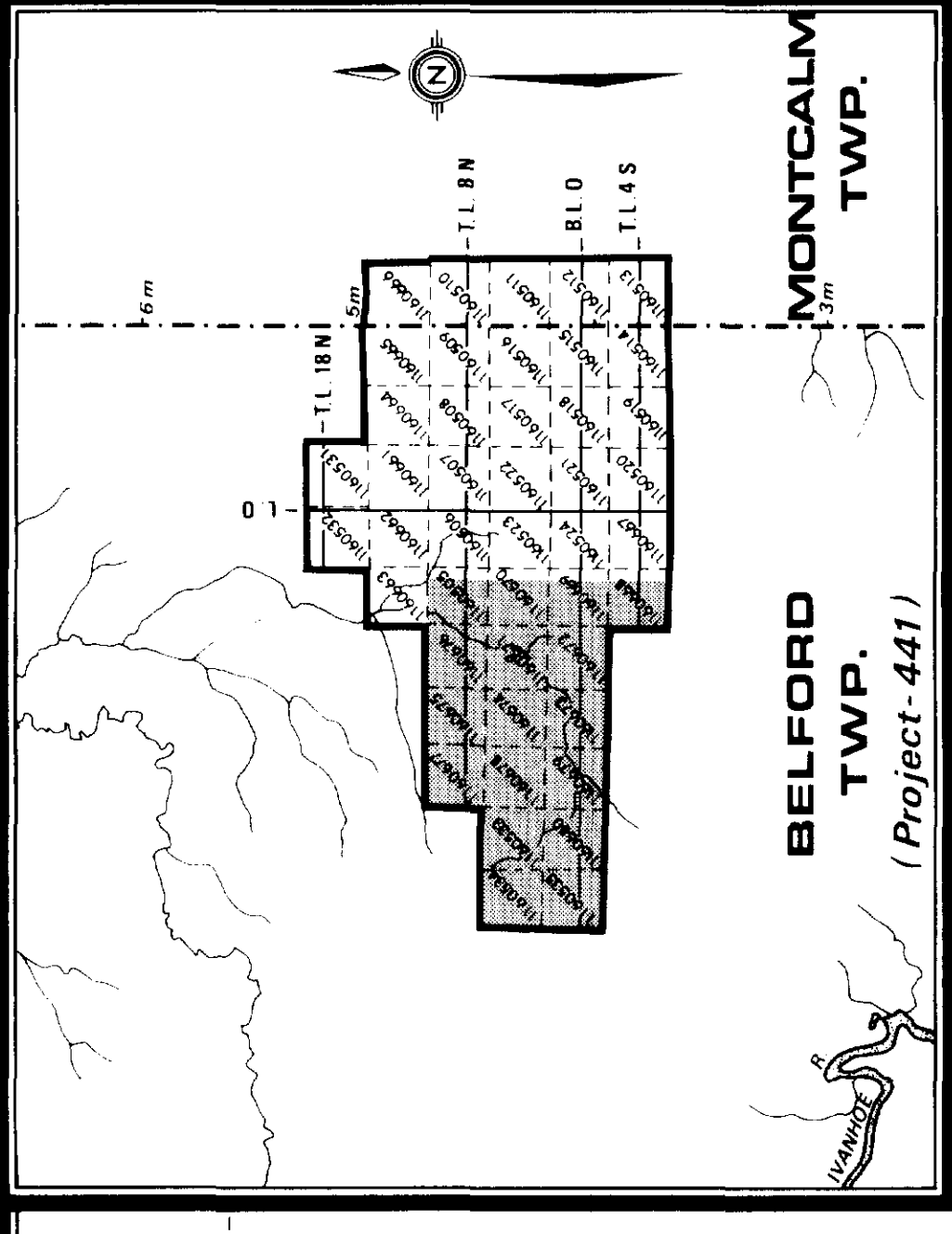
DATE: MARCH 1991  
SCALE: 1:2500  
ENGR: ENR  
SERVICES: EXPLORATION SERVICES REGD

FREQUENCY: 72.22 kHz  
CON. SEPARATION: 200m  
IN PHASE  
QUADRATURE  
I.P. 0

INSTRUMENT: MAXMIN II  
BELFORD & MONTCALM







**RECEIVED**  
MAY 02 1991  
MINING LANDS SECTION

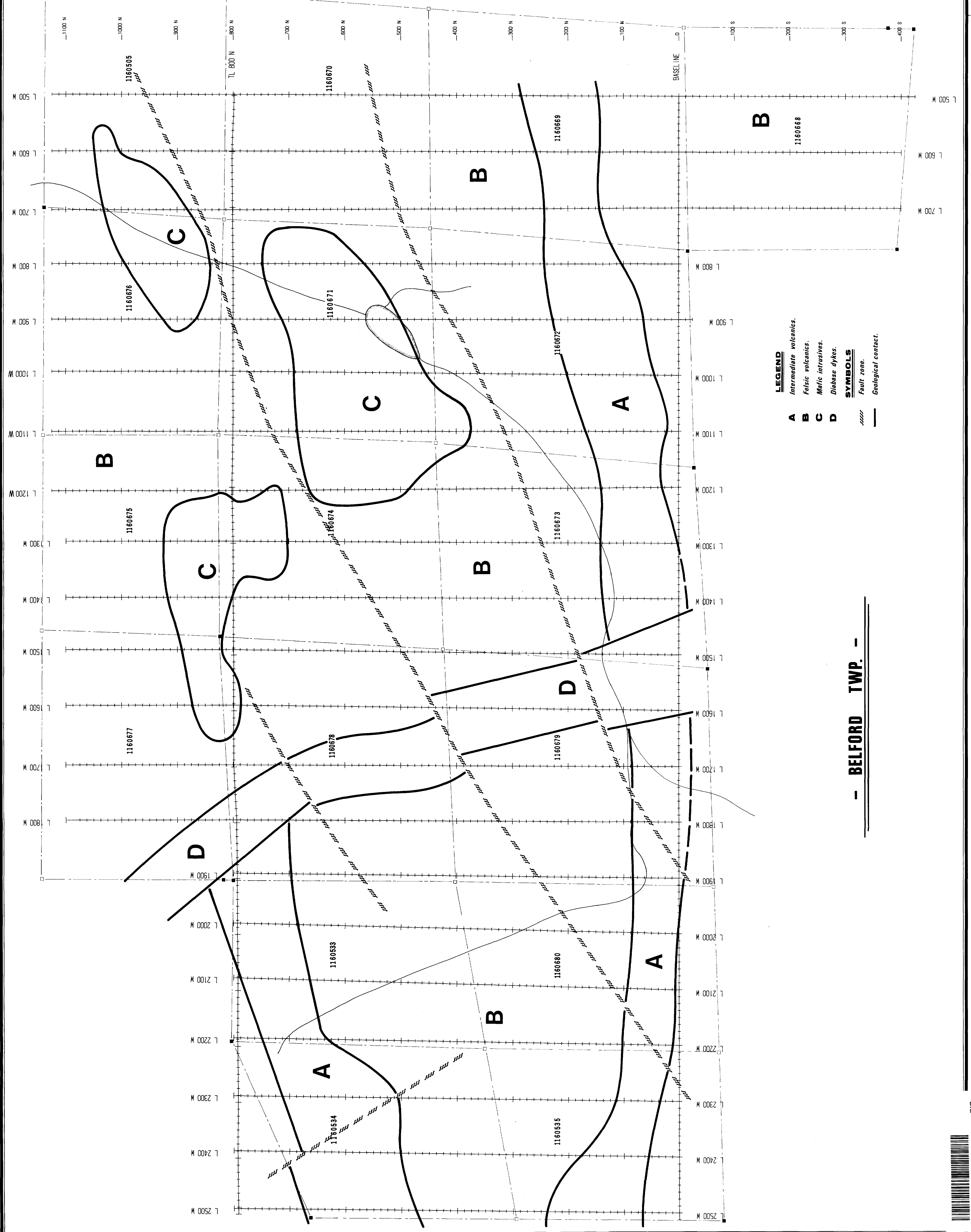
■ Claim post located.  
□ Claim post location assumed.

**2.14084**

**GEOLOGICAL INTERPRETATION**  
FOR  
**PLACER DOME INC.**

PROJECT - 4-41 - BELFORD & MONTCALM 1013

SURVEYED BY \_\_\_\_\_ DATE March 1991  
DRAWN BY GOSSET & SORRELL SCALE 1:25,000  
ENRNG SERVICES EXPLORATION SERVICES REGD



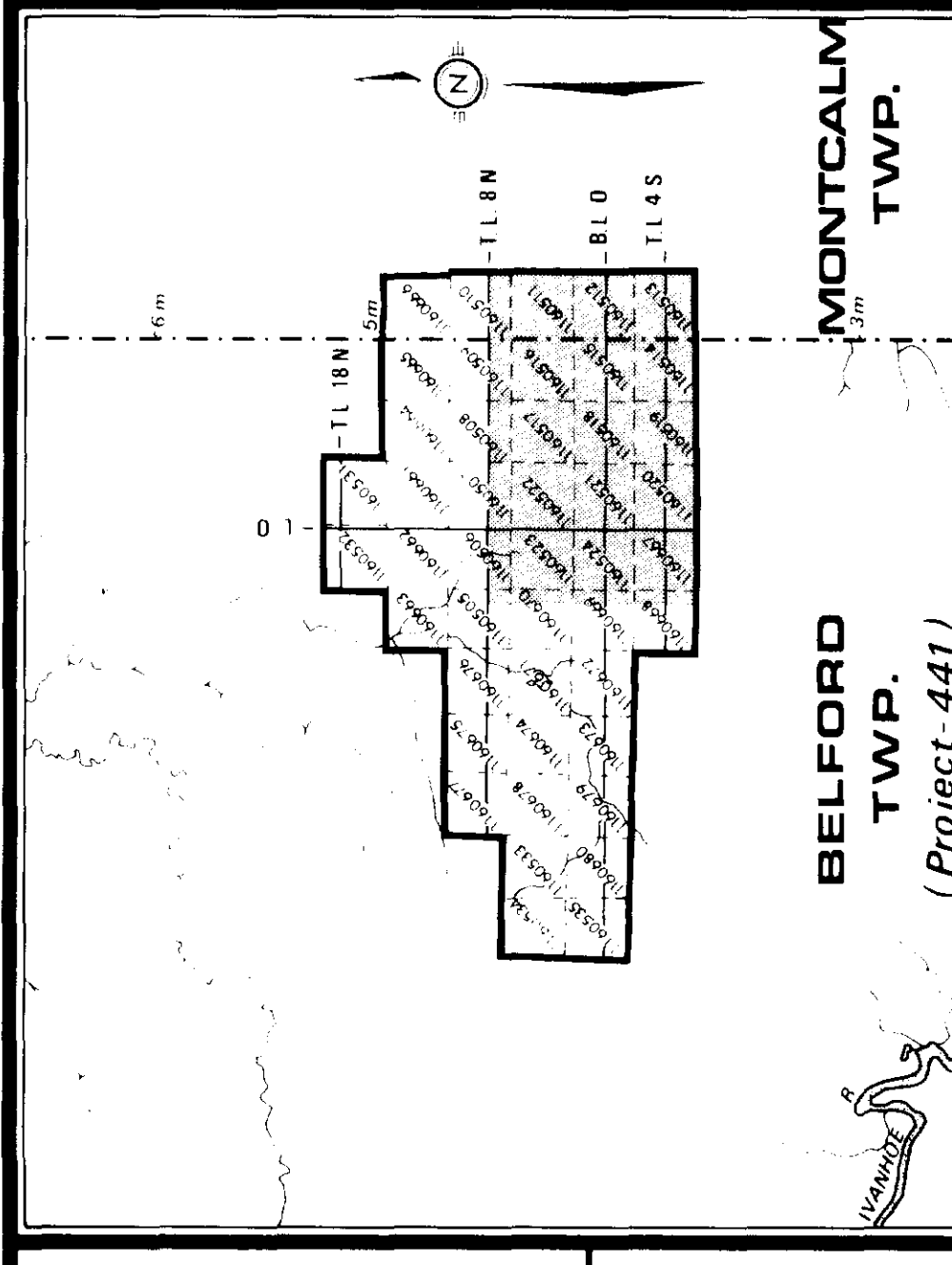
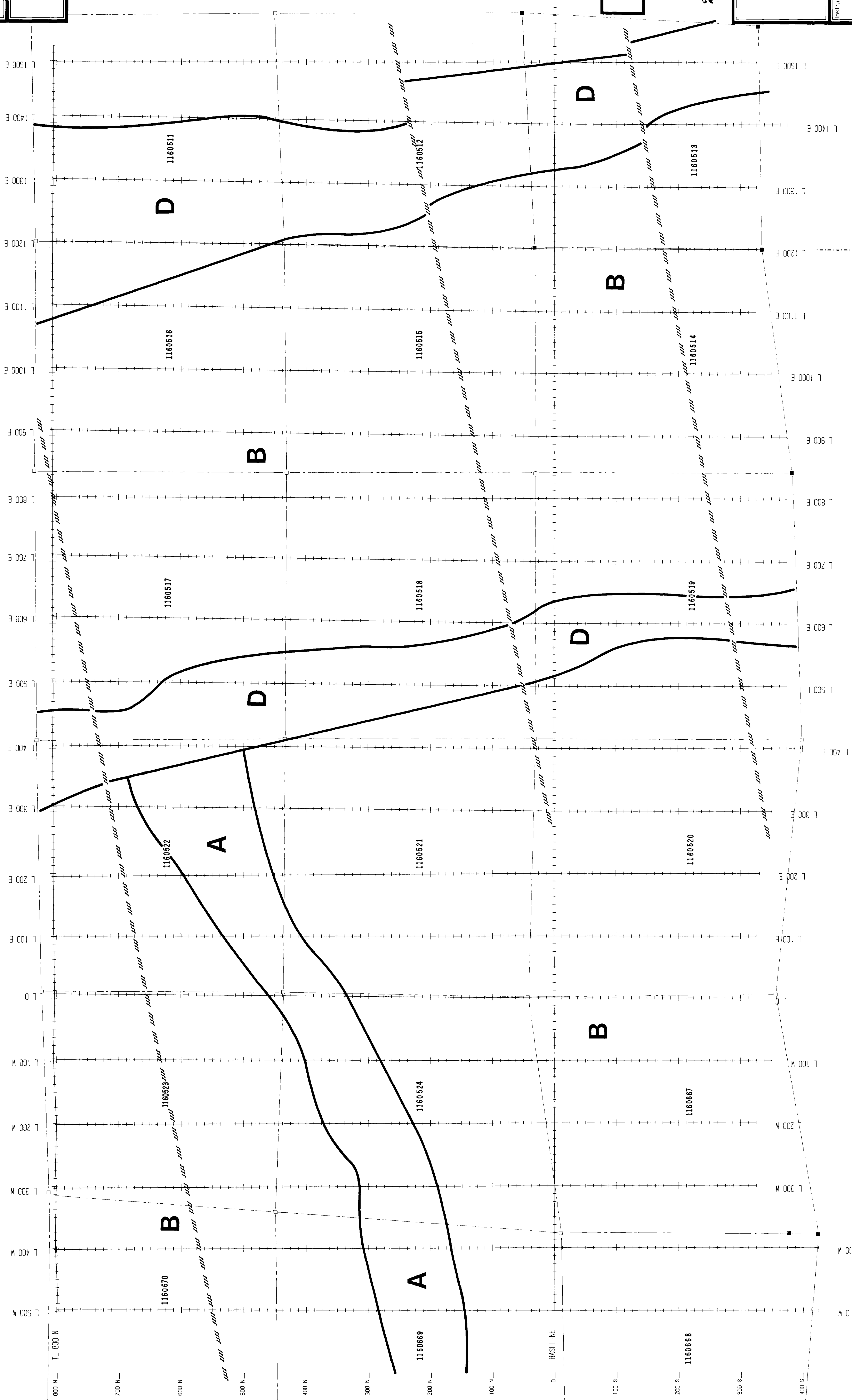
- LEGEND**
- A** Intermediate volcanics.
  - B** Felsic volcanics.
  - C** Mafic intrusives.
  - D** Diabase dykes.
- SYMBOLS**
- Fault zone.
  - Geological contact.

— BELFORD TWP. —

**- BELFORD TWP. -**

**MONTCALM TWP.**

- LEGEND**
- A** Intermediate volcanics.
  - B** Felsic intrusives.
  - C** Mafic intrusives.
  - D** Diabase dykes.
- SYMBOLS**
- Fault zone.
  - Geological contact.



**RECEIVED**  
MAY 02 1991

**HATCHING LANDS SECTION**

- Claim post located.
- Claim post location assumed.

**2.14084**

**GEOLOGICAL INTERPRETATION**

FOR  
**PLACER DOME INC.**

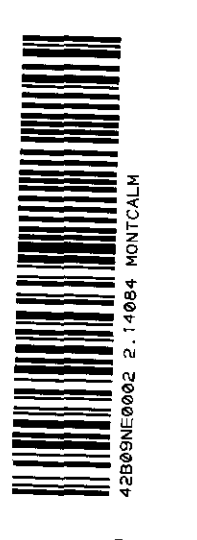
PROJECT - 441 - BELFORD & MONTCALM 2 of 3

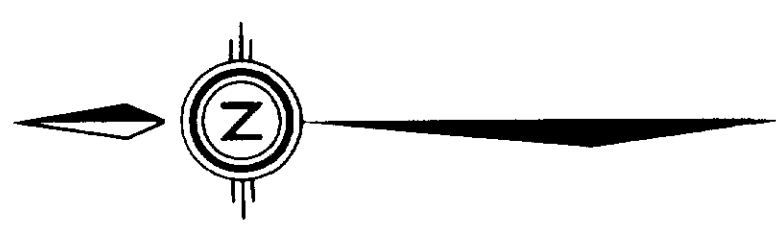
SURVEYED BY \_\_\_\_\_ DATE **MARCH 1991**

DRAWN BY **GEORGETTE SHAW** SCALE **1:2500**

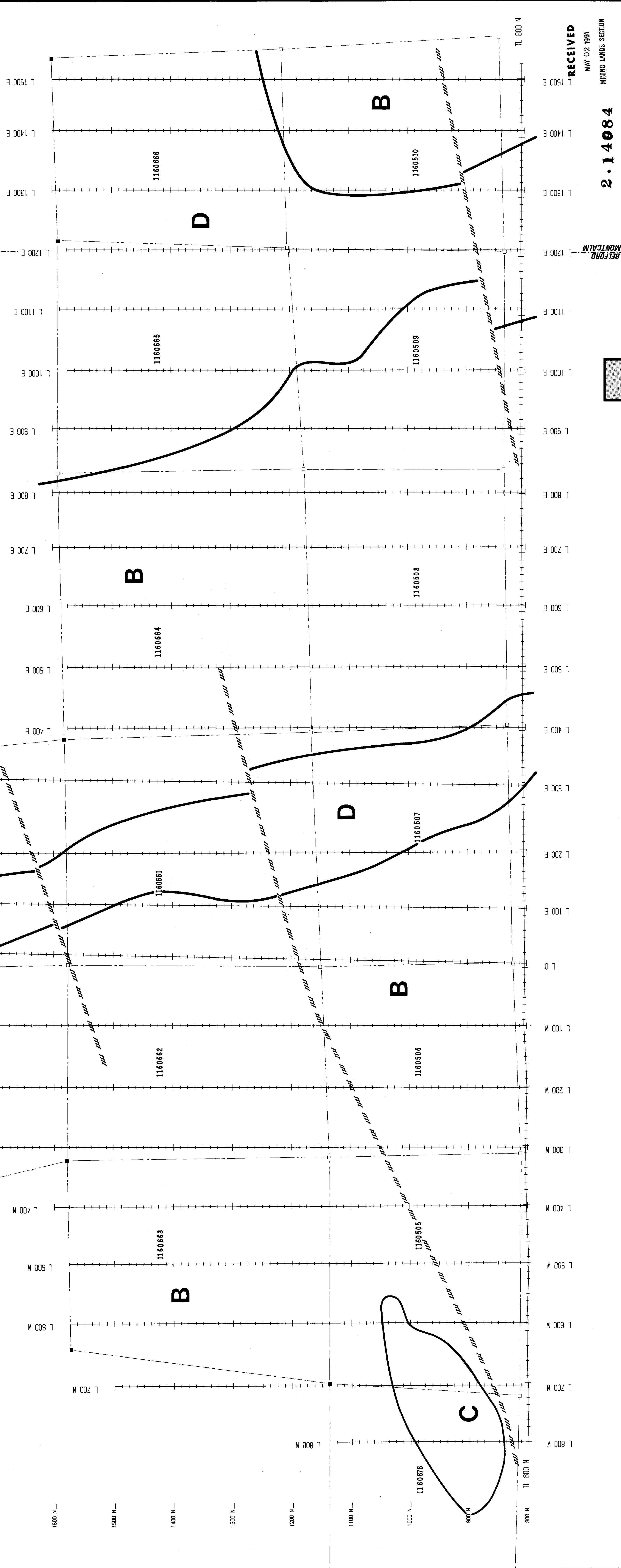
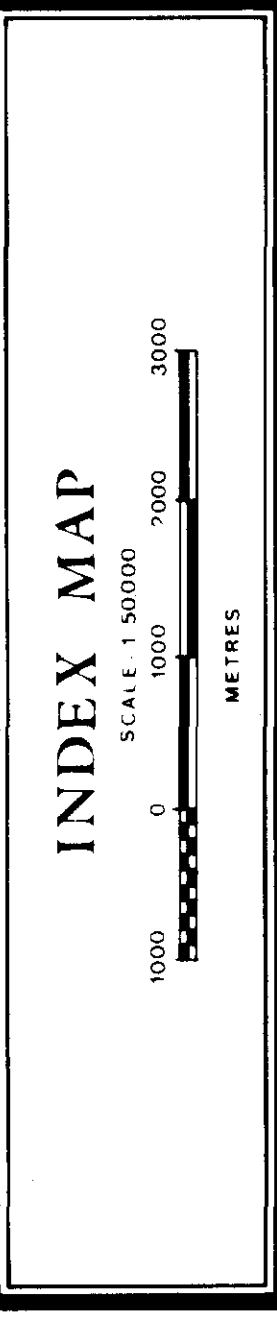
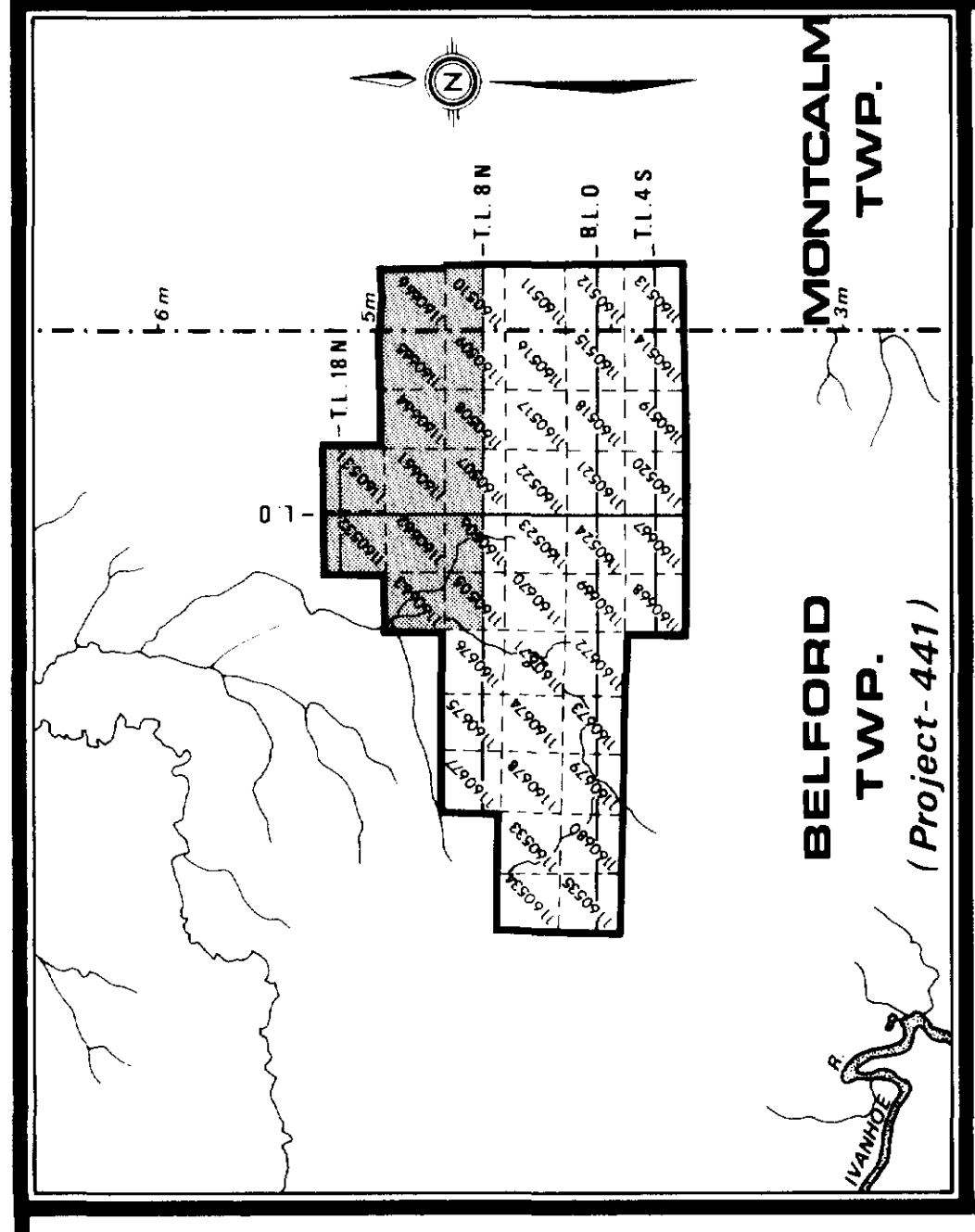
SERVICES: EXPLORATION SERVICES ENRG REGD

PLACER DOME INC. MONTCALM TWP.





- LEGEND**
- A** Intermediate volcanics.
  - B** Felsic volcanics.
  - C** Mafic intrusives.
  - D** Diabase dykes.
- SYMBOLS**
- Fault zone.
  - Geological contact.



**RECEIVED**  
MAY 02 1991  
MINING LANDS SECTION

**2-14084**

**GEOLOGICAL INTERPRETATION**  
FOR  
**PLACER DOME INC.**

PROJECT: 441- BELFORD & MONTCALM, 3 of 3

SURVEYED BY: \_\_\_\_\_ DATE: MARCH 1991  
DRAWN BY: GERRIT, S. Signin. SCALE: 1:25,000  
SERVICES EXPLORATION SERVICES ENRG  
REGD

