42A04NW0010 2.15465 KENOGAMING



# SUMMARY OF INDUCED POLARIZATION SURVEY

# COMPLETED ON AKWESKWA LAKE PROPERTY

# KENOGAMING TOWNSHIP, ONTARIO

2.15465

C. J. Bradbrook, M.Sc.

March 30, 1994.

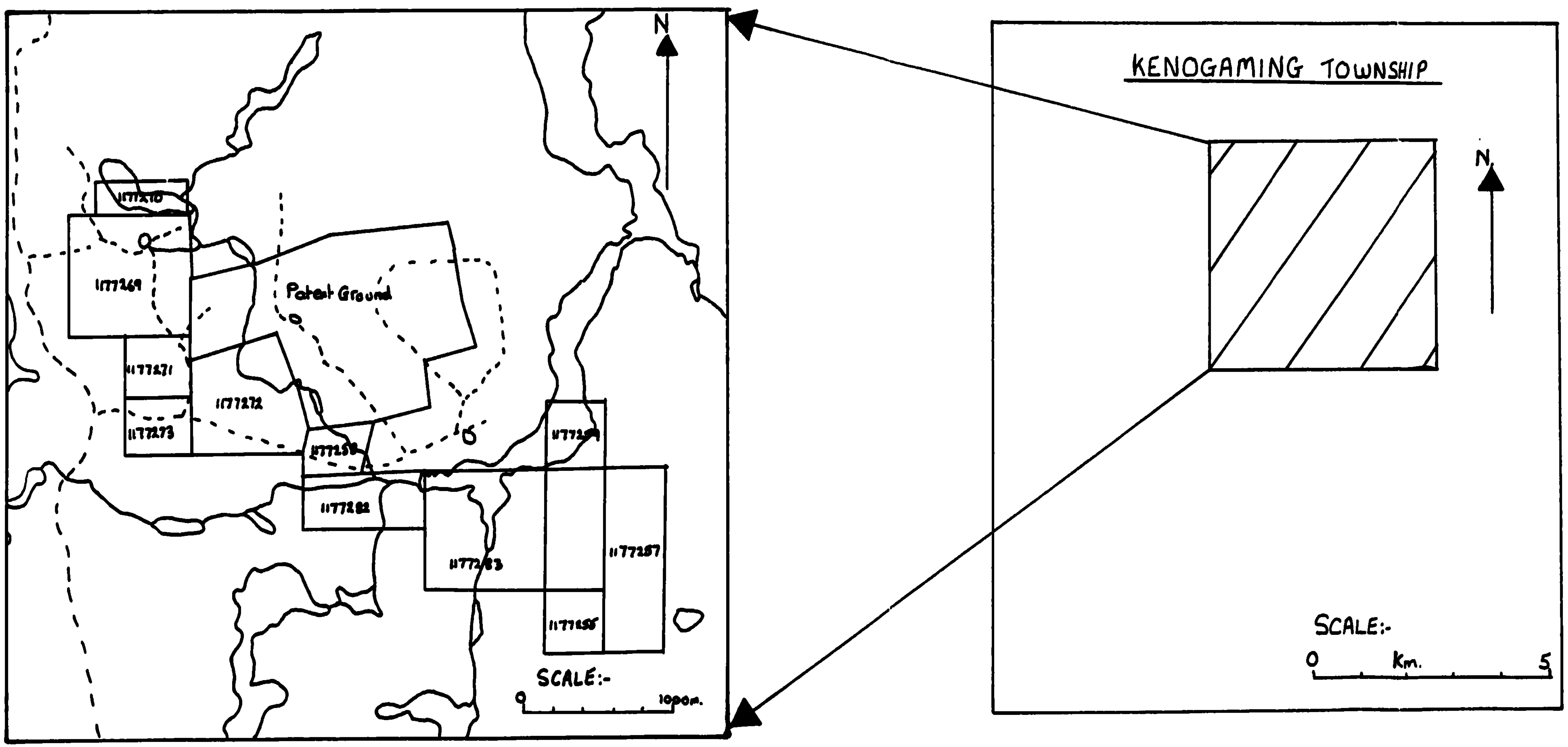


FIGURE 2 LOCATION OF AKWESKWA LAKE PROPERTY CLAIMS WITHIN KENOGAMING TOWNSHIP
and indicating claims which work assigned to (shaded grey)

2.1546

# EXECUTIVE SUMMARY

Line cutting totaling 6.8 kilometres, and an induced polarization survey totaling 5.5 kilometres were completed on the Akweskwa Lake Property, Kenogaming Township, Ontario. The work was completed in the NW and SE part of the property where waterbodies and swampy ground dictated the work could only be done in the winter.

Au mineralization has been identified on, and adjacent to, the Akweskwa Lake Property, within zones of schistose sericitic felsic volcanic rocks with disseminated pyrite: these zones can reach in excess of 200 ft in thickness. Examples of previous sampling include 0.504 oz Au/t over 10 ft from diamond drilling, and 0.24 oz Au/t; and 0.24 % Zn over 4 ft from surface trenching.

Induced polarization surveys represent perhaps the most effective method of delineating buried zones of disseminated pyrite. It was therefore the intent of this survey to locate such zones in the water covered and swampy areas of the Akweskwa Lake Property.

The survey was successful in identifying a number of well developed induced polarization anomalies with elevated phase readings, and low resistivity readings. Two of these appear to represent NW and SE extensions of known Au mineralization whilst others represent excellent additional targets.

Further work is warranted on the basis of the encouraging results from this survey and appropriate recommendations are therefore made for future work to be completed on the Akweskwa Lake Property.

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## LIST OF FIGURES



## LIST OF MAPS (Back Pocket)

## 1.0 LOCATION AND ACCESS

The claims covered by this report are collectively called the "Akweskwa Lake Property". This property is located approximately 60 km southwest (in a straight line) of Timmins, Ontario in Kenogaming Township, Porcupine Mining Division (Figure 1). The property is located entirely on claim map sheet G-3239, in NTS area 42/A5, at latitude 48°09' N, and longitude 81°56' W.

Access is excellent by road, traveling via Highway 101 west for approximately 60 km, then an additional 11 km south on a network of logging roads maintained by Malette Inc. of Timmins.

## 2.0 DESCRIPTION OF PROPERTY

The property comprises 11 claims (totaling 23 claim units of approximately 16 hectares each) in the Northern half of Kenogaming Township (Figure 2). The claim numbers are:

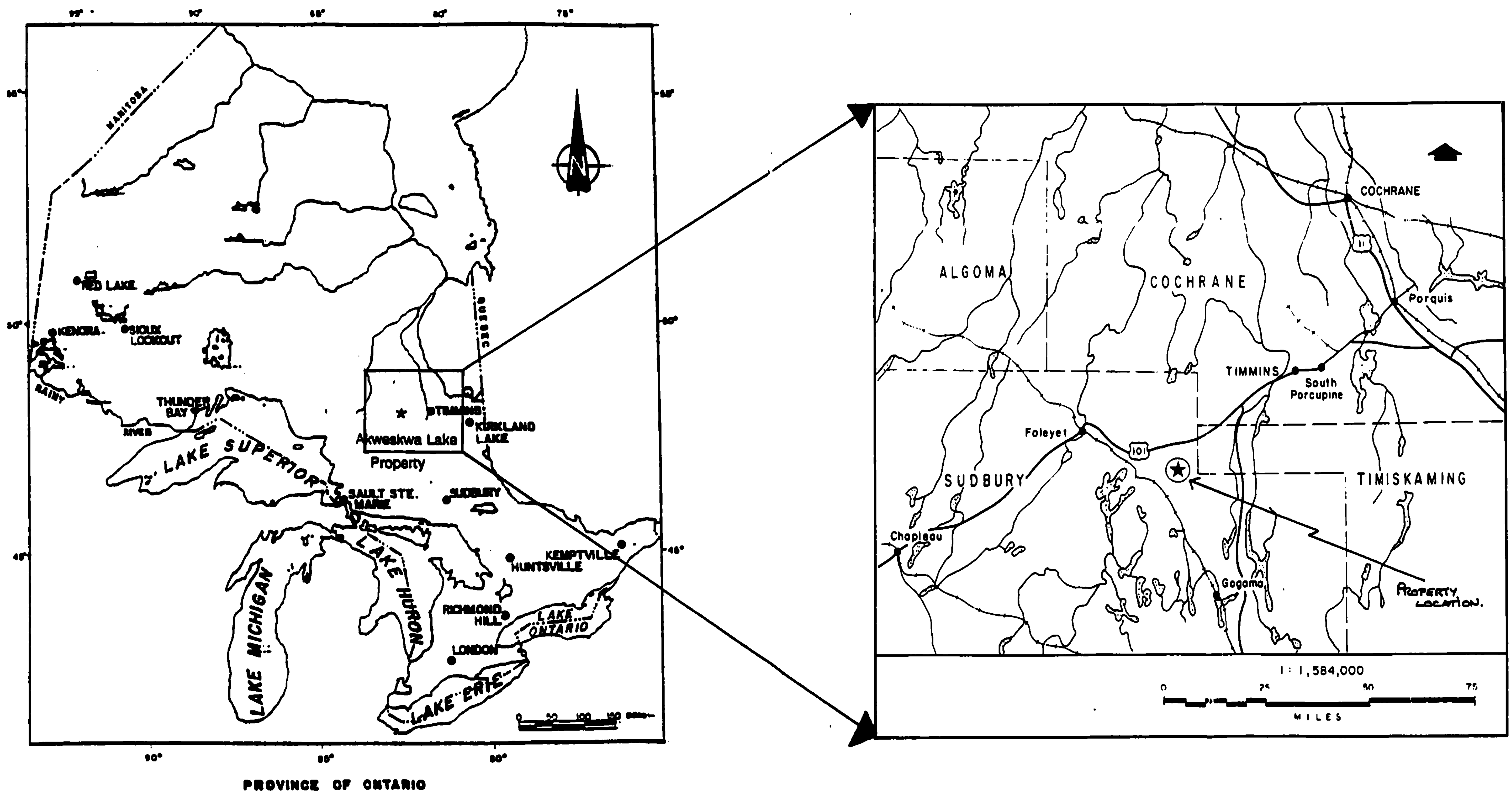
| Claim No. | No. of Claim Units |
|---|---|
| 1177255 | 1 |
| 1177257 | 3 |
| 1177258 | 1 |
| 1177259 | 1 |
| 1177269 | 4 |
| 1177270 | 1 |
| 1177271 | 1 |
| 1177272 | 4 |
| 1177273 | 1 |
| 1177282 | 2 |
| 1177283 | 4 |

The registered holder of these claims is:-

Christopher J. Bradbrook
87 Selgrove Crescent
Oakville, Ontario
L6L 1L2

The surveys described in this report were completed on claim No's 1177269 - 1177271 (inc.), and 1177282 - 1177283 (inc.)

FIGURE 1




AKWESKWA LAKE PROPERTY

PROPERTY LOCATION

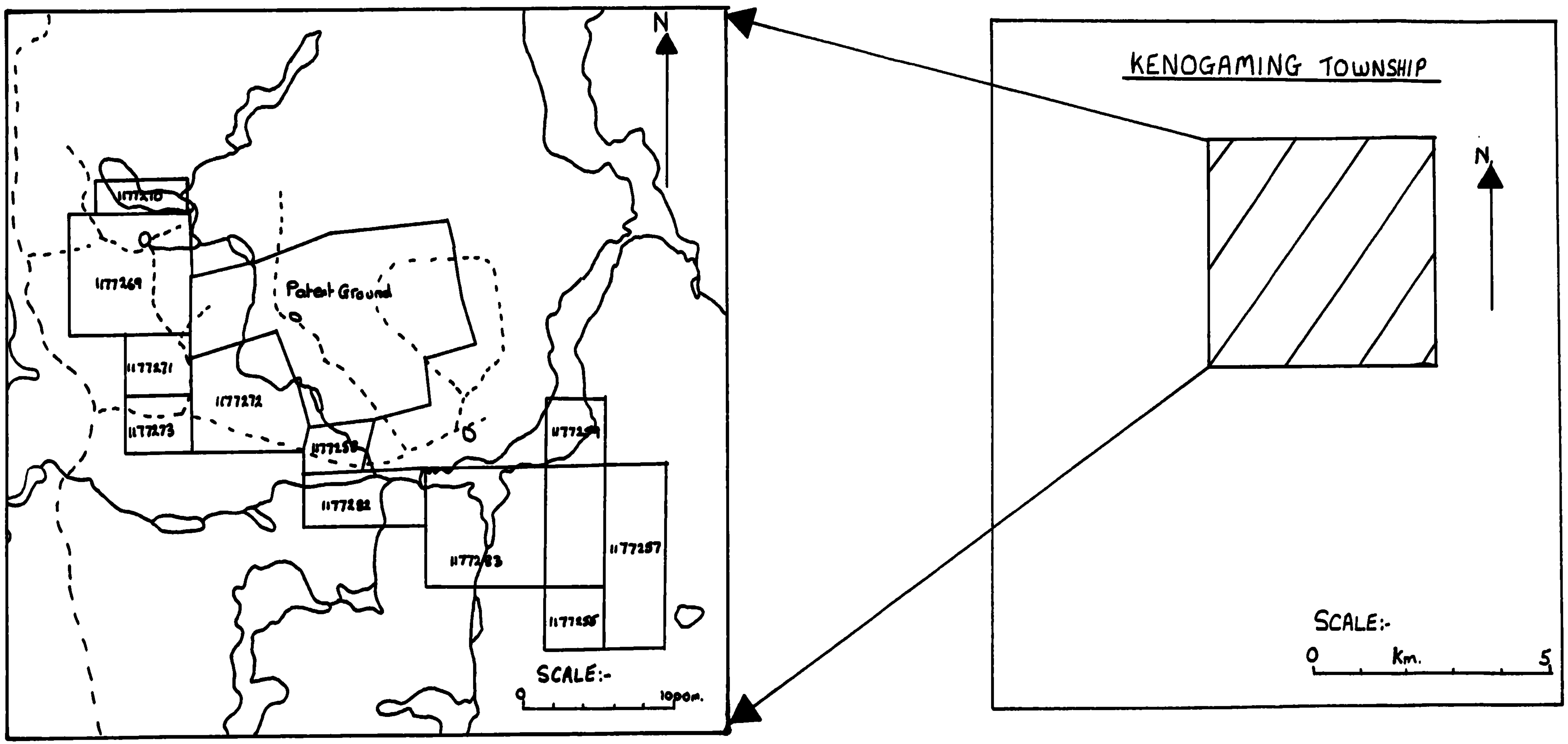



FIGURE 2. LOCATION OF AKWESKWA LAKE PROPERTY CLAIMS WITHIN KENOGAMING TOWNSHIP

# 3.0 GEOLOGY AND MINERALIZATION

The Akweskwa Lake Property is underlain by Archean Rocks of the NE part of the Swayze Greenstone Belt. On a local scale, the property is underlain predominantly by intercalated felsic to intermediate volcanic rocks (Figure 3) and lesser mafic tuffs. These rocks are part of the Hanrahan Lake Complex (Milne 1972), which is a wedged shaped area with a 7 km wide north-south base at Akweskwa Lake and extending 13 Km west southwest to its apex. This complex forms the core of a northwest-plunging antiform fold, and is enclosed by mafic volcanic rocks to the north south and west, and is in fault contact (Tanton Lake Fault) with felsic intrusive rocks, and lesser mafic, intermediate, and felsic volcanic rocks to the east. On the Akweskwa Lake Property the volcanic rocks strike east to southeast and dip steeply to the north or northeast. A schistosity parallels bedding and fragments have been elongated parallel to it.

The volcanic rocks underlying the Akweskwa Lake Property have been intruded by a number of southeast trending serpentinized ultramafic rocks. Narrow feldspar porphyry sills intrude both volcanic and ultramafic rocks. These are generally less than 3m thick. All rocks are intruded locally by a number of north to northwest trending diabase dikes.

2 principal zones of Au mineralization have been identified immediately adjacent to (the north of) the Akweskwa Lake Property:-

### *(i) Dunvegan Zone.*

This zone is located approximately 200m north of the property boundary approximately 600m west of Akweskwa Lake (Figure 3). Au is associated with disseminated pyrite in schistose sericitic felsic tuffs and agglomerates intruded by feldspar porphyry sills. The pyrite is locally associated with pods and veinlets of sphalerite. Examples of assays obtained from this zone include 0.24 oz Au/t; 0.20 oz Ag/t; and 0.24 % Zn across 4ft.

### *(ii) Jonsmith Zone*

This zone is located approximately 300 metres northeast of the Dunvegan Zone (Figure 3). Assay results of up to 0.504 oz Au/t over 10ft have been obtained from sericitic tuff with variable pyrite.

Nickel mineralization occurs in a serpentinite in the NE corner of patent claim 58335 adjacent to the NW part of the Akweskwa Lake property (Figure 3). A second nickel showing occurs 400m south of the No. 3 post of patent claim 49025 adjacent to the central part of the Akweskwa Lake property (Figure 3). Grab samples of up to 1% Cu, and 0.9% Ni have been reported (Milne: 1972).

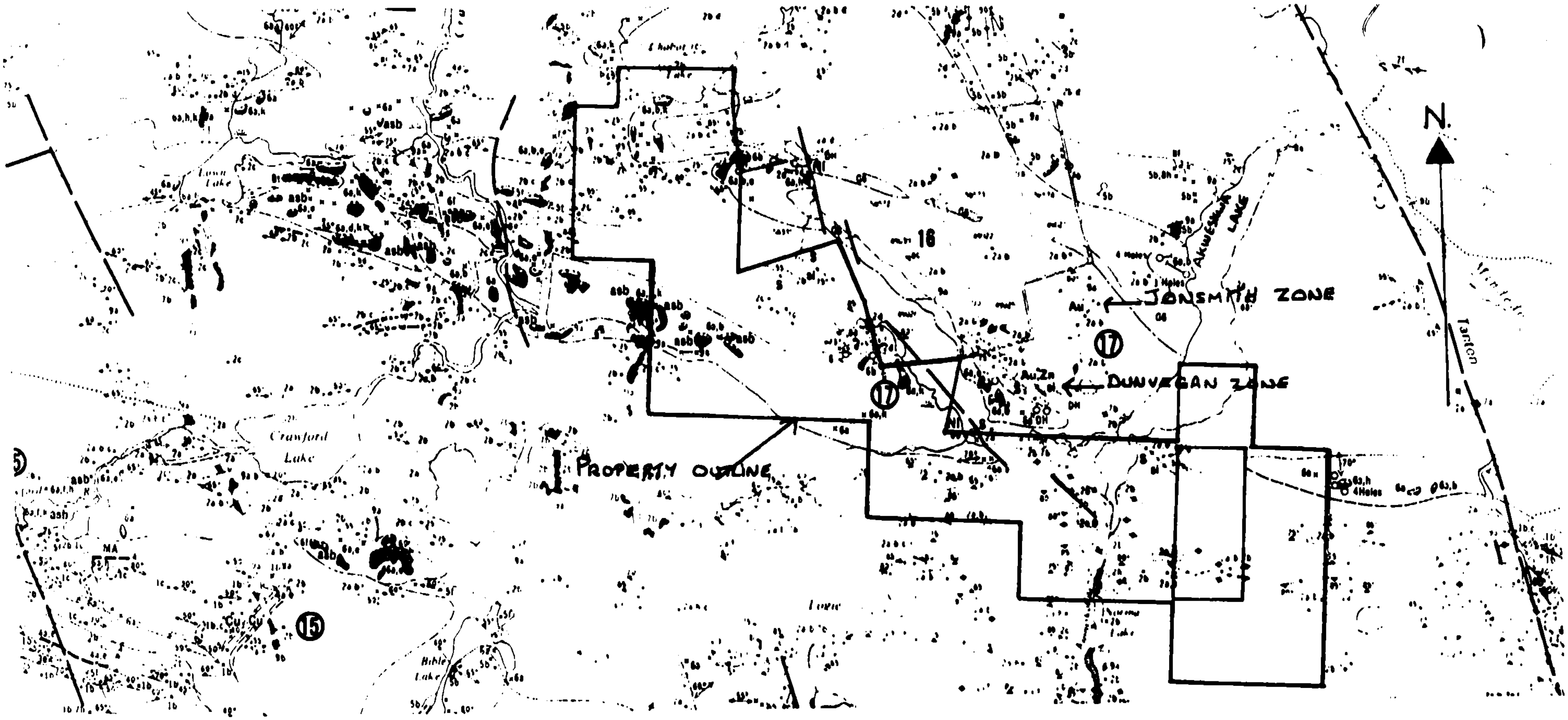



**FIGURE 3.**

Geology of Akweskwa Lake Property and Surrounding Area. (From MNDM Map 2231).

Scale 1 inch to 1/2 mile.

Rock types:- (2) Int. to Felsic volcanic rocks; (3) Sedimentary rocks; (5) Mafic Intrusive rocks; (6) Ultramafic Intrusive rocks; (7)Feldspar Porphyry; (8) Felsic Intrusive rocks; (9) Diabase Dikes

## 4.0 SUMMARY OF PREVIOUS WORK

The following is a summary of work previously completed on, and immediately adjacent to, the Akweskwa Lake Property:-

1947:- Au was first discovered at, what is now, the Dunvegan Zone by N. Elieff who panned gold from pyritic shear zones whilst prospecting for Hoodoo Lake Mines Ltd.

1951:- Trenching and sampling of the Dunvegan Zone by Dunvegan Mines obtained anomalous results including:-

0.01 oz Au/t across 12 ft
0.20 oz Ag/t; 0.19% Zn across 20 ft
0.40 oz Ag/t; 0.39% Zn across 20 ft
0.24 oz Au/t; 0.20 oz Ag/t; 0.24% Zn across 4 ft
0.02 oz Au/t; 1.04% Zn across 6 ft

1952:- Norduna Mines completed one diamond drill hole (271 ft) into the Dunvegan Zone, and between 65.6 ft and 157 ft intersected a sheared tuffaceous rhyolite with disseminated pyrite throughout, and disseminated sphalerite between 65.6 ft and 75.0 ft.

1953:- Norduna Mines completed a number of diamond drill holes into an area of Nickel mineralization in the NE corner of patent claim 58335 adjacent to ( the east of) the NW part of the Akweskwa Lake Property. A number of anomalous intersections were obtained with the most anomalous being 0.88 % Ni, and 0.156 % Cu over 25 ft. (Milne 1972).

1960:- Jonsmith Mines Ltd. identified the Jonsmith Zone through completion of 3 pack sack drill holes totaling 306 ft. In hole No. 1 the interval between 65-75 ft averaged 0.504 oz Au/t in a pyritic, sericitic tuff where sulphides were more abundant and included chalcopyrite and galena. However, wherever sampled, the pyritic, sericitic tuff consistently contained 0.01 to 0.07 oz Au/t. The tuff was in excess of 100 ft thick.

1966:- Falconbridge Nickel Mines Limited completed 8 diamond drill holes into the zone and obtained a number of anomalous results, including 0.01 oz Au/t; 0.55 oz Ag/t; and 1.03% Zn over 14.2 ft in hole Number 7. 3 other diamond drill holes were completed into an adjacent ultramafic intrusion.

1983-85:- Ingamar Exploration conducted geological mapping, trenching, and preliminary ground geophysical and geochemical surveys on ground which includes the SE part of the Akweskwa Lake Property and obtained 0.157 Au/t from a grab sample of a

5cm wide seam of semi-massive pyrite within sheared felsic tuffs. This sample was taken from a location now in Claim 1177283 on the east side of Akweskwa Lake (Map No. 5).

1985-86:- Glen Auden Resources Ltd. and Golden Range Resources Ltd. conducted geological mapping, soil sampling, and preliminary ground geophysical surveys in an area which includes the NW part of the Akweskwa Lake Property. 4 diamond drill holes totaling 2,032 ft were completed on current claims 1177269 and 1177272 in an attempt to locate the Northwest extension of the Dunvegan Zone (Map No. 5). All holes intersected pyritic, sericitic schistose felsic volcanic rocks. These rocks were intersected over widths of up to 210 ft, and contained up to 8% fine grained disseminated pyrite. All holes provided samples with geochemically anomalous quantities of Au (>100 ppb Au), and the most Northwesterly hole (GAK-4) contained a 132 ft interval with a number of assays between 100 and 600 ppb Au.

1988-89:- Halley Resources Ltd. completed 18 holes into the Dunvegan Zone and surrounding area.

# 5.0 WORK DONE

## 5.1 GENERAL STATEMENT

Previous work has indicated that anomalous Au occurs over significant widths within sericitic, pyritic felsic volcanic rocks. Previous work has largely focused on the known Au occurrences, in particular the Dunvegan Zone. However the Akweskwa Lake property was staked to enable exploration of the entire stratigraphic sequence enclosing this known mineralization to the NW and SE, to explore for both strike extensions of this known mineralization, as well as for other parallel zones. However tracing the strike extensions of known anomalous zones to the NW, and SE or identifying new parallel zones is hindered by waterbodies, swampy ground and overburden up to 20m deep in the NW and SE parts of the property (Figure 2).

The current Induced polarization survey was therefore performed to locate zones of disseminated pyrite, which may be associated with anomalous quantities of Au, beneath swampy areas, and waterbodies in the NW and SE parts of the Property, where the survey could only be effectively completed in the winter.

This work was supervised by:-

Christopher J. Bradbrook, M.Sc.
87 Selgrove Crescent,
Oakville, Ontario
L6L 1L2

## 5.2 DESCRIPTION OF WORK

### 5.2.1 Line Cutting

Line cutting was completed between January 13th, and February 5th, 1994. 2 grids were cut. East - West base lines were established relative to known claim posts, and topographic features. Perpendicular cross lines were oriented north-south and spaced at 200 metre intervals. All lines were chained and picketed at 25 metre intervals. A total of 6.8 km of line was cut, and this was completed by:-

GEORGEX EXPLORATION CONTRACTORS
353 Railway St.
Timmins, Ontario
P4N 2P4

***Grid A*** was cut in the SE part of the property on claims 117282, and 1177283 over an arm of the southwest part of Akweskwa Lake and surrounding swampy land (Figure 4). Lines cut consisted of a baseline 800m in length and cross lines totaling 2600m for a total of 3.4 Km. of cut line.

***Grid B*** was cut in the NW part of the property on claims 1177269, 117270 and 1177271 over 2 lakes and swampy ground (Figure 4). Lines cut consisted of a baseline 500m in length, and cross lines totaling 2900m for a total of 3.4 Km of cut line. Line 0+00 was extended far enough south to permit completion of the induced polarization survey over the interpreted NW extension of the Dunvegan Zone, and to correlate any anomalies generated by this zone with any other anomalies identified in the remainder of the grid covered by this survey.

### 5.2.2 Induced Polarization Survey

An induced polarization (IP) survey was completed between February 13 and February 19, 1994 over the entire length of all North-South lines on both grids A and B. 2.6 km of induced polarization was completed over Grid A, and 2.9 km over Grid B. The survey utilized the Phase IP. method with a dipole-dipole array. Dipole spacing ("spread") was 50 metres with readings taken for dipole separations of "n" = 1 to 6, with a frequency of 1.0 Hz, and phase measured in milli-radians. Readings were also taken of resistivity and recorded in ohm_m. These survey parameters were utilized to ensure penetration to bedrock beneath swampy areas. The dipole array configuration is represented in the accompanying pseudo sections (Figures 5 - 12 inc.).

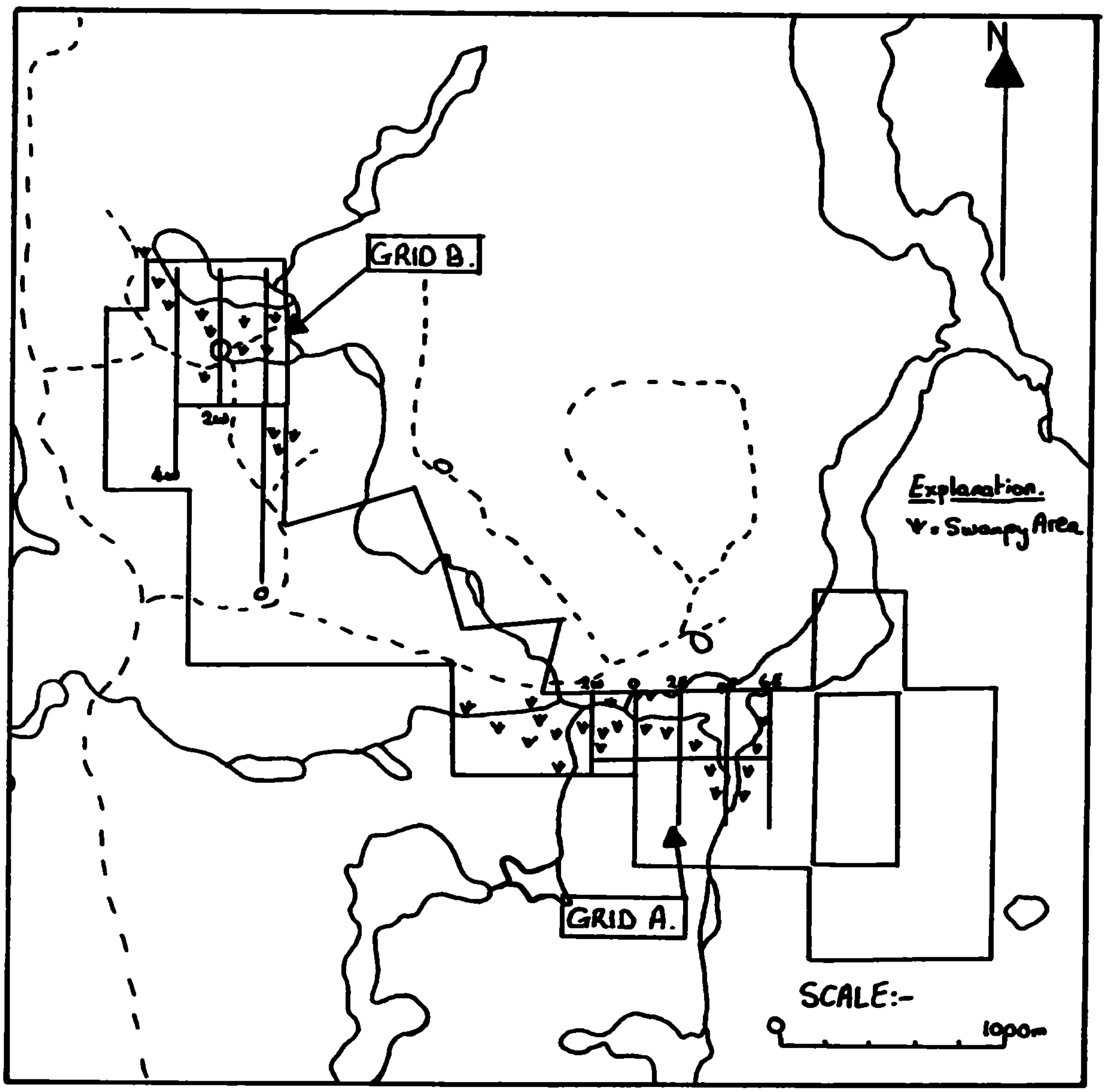



FIGURE 4. LOCATION OF CUT GRIDS WITH RESPECT TO CLAIM BOUNDARY.

AKWESKWA LAKE PROPERTY.

The receiver used in this survey was a Phoenix IPV-1, with a Phoenix IPT-1 transmitter; power was provided by a 3.0 kW motor generator, and electrodes were stainless steel rods or aluminum foil. The survey was conducted by:-

MERTENS and MACNEIL GEOPHYSICAL GROUND SURVEYS LTD.
Box 1682
Guelph, Ontario
N1H 6Z9

The survey was completed by a crew comprised of 1 operator and 4 assistants:-

Operator:- Jack MacNeil

Assistants:- Kirk Morrison
Dave Gouthro
Kevin McKenzie
Shaun MacDonald

# 6.0 RESULTS AND RECOMMENDATIONS

## 6.1 RESULTS

### 6.1.1 General Statement

The induced polarization anomalies identified by this survey were classified as definite, probable or possible. These classifications are with respect to both resistivity, and phase readings and are made relative to the background readings obtained in the survey. Resistivity anomalies were identified by readings lower than background: Phase anomalies were identified by readings greater than background.

***Definite anomalies*** are those which have a definite form, and where readings of resistivity and phase are significantly different from background.

***Probable anomalies*** are those which have readings of resistivity and phase which are moderately different from background, and which have a less definite form

***Possible anomalies*** are those which have readings of resistivity and phase which are only slightly different from background, or which are significantly different from background, but only occur at select n values.

### 6.1.2 Grid A

Results of the Induced Polarization Survey over Grid A are presented in Pseudo Sections in Figures 5-9 (inclusive). Filtered resistivity results have been plotted and contoured in plan view to enable interpretation of lithological variations across the grid in relation to any anomalies identified (Map 1). On Grid A there appears to be a lithological contact trending ESE from approximately 1+00N on Line 2+00W to approximately 00+50S on Line 6+00E. This contact is marked by a changed from lower resistivity results (<2500 ohm_m) in the north part of the Grid to considerably higher resistivity results (mostly >10,000 ohm-m) in the south part of the grid. The resistivity change caused by this interpreted contact is somewhat obscured by the effects of the lower resistivity of the swampy ground around Akweskwa Lake. The lower resistivity results may reflect schistose, sericitic, pyritic felsic volcanic rocks, whereas the higher resistivity readings may reflect more massive volcanic rocks.

3 phase anomalies have been identified on Grid A; 2 associated with the zone of lower resistivity, and 1 associated with the zone of higher resistivity immediately adjacent to the lower resistivity zone (Map 2). These anomalies are described below.

***Anomaly E***

Identified in the northern part of Lines 4+00E and 6+00E, and may extend north of the property boundary. It is most clearly identified on Line 6+00E where it produced phase readings of <= 28 milli-radians associated with low resistivity readings to 461 ohm_m. It appears the anomaly trends Northwest and may correlate with the Dunvegan Zone (Map 5).

***Anomaly E'***

Identified in the Northern part of Lines 2+00E and 4+00E. It is characterized by low resistivity readings to 243 ohm_m, with no associated phase response. This anomaly may represent an envelope to anomaly E, perhaps comprising schistose rocks with little or no associated sulphide minerals.

***Anomaly F***

This anomaly is best developed on Line 2+00W, extending north from 1+00N to the limit where readings could be taken on the property. It is a very well developed "n-shaped" anomaly with phase readings up to 27 milli-radians associated with low resistivity readings to 707 ohm-m. The anomaly appears to fade to the east, and its presence on Line 0+00 is questionable.

*Anomaly G*

This anomaly extends east-west across the South and central parts of Grid A. It produces a phase response of mostly 10-15 milli-radians, although on Line 2+00E at n=6, a response of 40 milli-radius was obtained. The phase response is associated with high resistivity values (>10,000 ohm_m), although may occur at a lithological contact with low resistivity rocks to the north.

### 6.1.3 Grid B

Results of the Induced Polarization Survey over Grid B are presented in Pseudo Sections in Figures 10-12 (inclusive). Filtered resistivity results have been plotted and contoured in plan view to enable interpretation of lithological variations across the grid in relation to any anomalies identified (map 3).

An area of high resistivity (<= 7246 ohm_m) is present in the northern half of lines 2+00W and 4+00W, and may correlate with an area of ultramafic intrusive rocks.

An area of low resistivity (< 2000 ohm_m) trends southeast in the southern half of Grid B, and may represent schistose rocks, which correlate with those hosting the Dunvegan zone to the southeast.

A second zone of low resistivity (< 2000 ohm-m) is present along the southern margin of the lake in the north of the grid, and appears to occur close to the contact between ultramafic intrusive rocks, and felsic volcanic rocks (Map 5).

4 phase anomalies have been identified on Grid B (Map 4). These anomalies are described below.

*Anomaly A*

On Line 0+00 this a wide strong phase anomaly between 1+50S and 4+00S with readings of <= 38 milli-radians, associated with low resistivity readings to 143 ohm_m. It appears to be strongest at depth (n = 3-6). The anomaly is interpreted to continue northwest to Line 4+00W where it is strongest between 0+75 N and 0+25 S with phase readings to 67 milli-radians, and associated low resistivity readings to 633 ohm_m.

This anomaly is interpreted to be caused by pyritic sericitic rocks which correlate with those rocks hosting the Dunvegan Zone to the Southeast (Map 5).

*Anomaly B*

This anomaly was detected at the southern end of Line 2+00W, at the base line with phase readings to 26-milli-radians and lower resistivity values to 1358 ohm_m. This particular anomaly may represent the northern edge of anomaly A or may be a distinct anomaly which correlates with pyritic sericitic rocks containing <= 600ppb Au over 132 ft which was intersected in a drill hole at the east property boundary (Map 5).

### *Anomaly C*

This is a rather less distinct anomaly located on lines 0+00 and 4+00W. Phase readings of up to 34 milli-radians associated with low resistivity values to 429 ohm_m in an area of generally high resistivity (> 5000 ohm_m). It is not clear what the cause of this anomaly may be.

### *Anomaly D*

The anomaly occurs at the southern margin of the lake on the north part of the grid, on lines 0+00, and 2+00W. Phase response was strongest at n=6 on line 2+00 W, 4+00 N where the reading was 69 milli-radians. Low resistivity values are more clearly defined with readings down to 572 ohm_m. This anomaly may represent sulphide mineralization at or near the contact between volcanic rocks and ultramafic intrusive rocks.

## 6.2 Recommendations

The work completed was successful in identifying a number of induced polarization anomalies beneath waterbodies and swampy areas, and which exhibit elevated phase readings, and commonly lower resistivity readings. These anomalies represent exploration targets which may reflect pyritic zones which could be associated with either anomalous Au mineralization where hosted by felsic volcanic rocks; or with Ni mineralization where hosted by ultramafic rocks.

Two of these anomalies; E on Grid A, and A on Grid B (Map 5), are interpreted, respectively to represent the SE, and NW extensions of the Dunvegan Zone, and therefore represent excellent exploration targets. Anomaly A is stronger than Anomaly E, and itself is strongest on Line 4+00 W of Grid B, suggesting the anomaly is getting stronger to the NW, and therefore that the abundance or extent of mineralization may potentially be increasing in that direction also. This indicates an excellent untested exploration target exists in that direction.

In addition, the fact that the significant Au mineralization identified in the Jonsmith Zone is parallel to, and 300m from, the Dunvegan Zone suggests the other parallel induced polarization anomalies identified in this survey also represent additional excellent exploration targets for pyritic Au deposits.

The following recommendations are therefore made:-

1) Complete a grid (summer cut) across the remainder of the Akweskwa Lake Property. A line spacing of no less than 200m should be used, and Grids A and B should be "tied in" to each other.

2) Conduct an induced polarization survey on the newly cut grid using the same survey parameters as those outlined in this report.

3) Prioritize induced polarization anomalies, and test the highest priority ones by diamond drilling.

# REFERENCES


Assessment files for Kenogaming Township in Timmins and Toronto (those file numbers prefixed by "T" reside in Timmins Resident Geologist's office):-

File #:- 42A04NW0118. 1989 - Halley Resources Ltd. - Diamond Drilling.

File #:- 42A04NW0122. 1988 - Halley Resources Ltd. - Diamond Drilling.

File #:- 42A04NW0130. 1985 - Ingamar Exploration Ltd. - Mapping, Soil Sampling, Trenching.

File #:- 42A04NW0132. 1984 - Ingamar Exploration Ltd. - Induced Polarization.

File #:- 42A04NW0138. 1983 - Ingamar Exploration Ltd. - Mapping, Trench Sampling.

File #:- 42A04NW0155. 1957 - Dunvegan Mines. - Diamond Drilling.

File #:- 42A04NW0158. 1957 - Dunvegan Mines. - Diamond Drilling.

File #:- 42A04NW0159. 1971 - Falconbridge Nickel Mines Ltd. - Diamond Drilling.

File #:- 42A04NW0171. 1948 - Hoodoo Lake Mines. - Mapping, Trenching.

File #:- 42A04NW8558. 1986 - Glen Auden Resources Ltd. / Golden Range Resources Ltd. - Diamond Drilling.

File #:- 2.8587. 1985 - Glen Auden Resources Ltd. - Mapping, Soil Sampling, Induced Polarization.

File #:- T2845. 1983 / 85 - Ingamar Exploration Ltd. - Mapping, Trenching, Induced Polarization.

Milne, V. G. 1972. Geology of the Kukatush - Sewell Lake area, District of Sudbury; Ontario Division of Mines, GR 97, 116p. Accompanied by Maps 2230, 2231, scale 1 inch to 1/2 mile.

# STATEMENT OF QUALIFICATIONS

I, CHRISTOPHER JAMES BRADBROOK, M.Sc., of Oakville, Ontario certify that:-

i) I am a graduate of the University of Southampton, England with a B.Sc. (Hons) degree in geology in 1980; and a graduate of the University of Western Ontario, London, Ontario with an M.Sc. degree in geology in 1983.

ii) I have been practicing my profession in Canada since 1980

iii) The work documented in this report was performed under my supervision

Dated this 30th day of March, 1994 in Oakville, Ontario.

**C. J. BRADBROOK M.Sc.**

AMENDED 6A0

Ministry of Northern Development and Mines
Ontario

# Report of Work Conducted After Recording Claim REPORT

Mining Act

Transaction Number: W9460.00052

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.15465

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for r... Recorder.
- A separate copy of this form must be comple...
- Technical reports and maps must accompany...
- A sketch, showing the claims the work is ass...

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900

| | |
|---|---|
| Recorded Holder(s): CHRISTOPHER J. BRADBROOK. | Client No.: 111410 |
| Address: 87 SELBROOK CRESCENT, OAKVILLE, ONTARIO. L6L 1L2 | Telephone No.: (905)-827-1772. |
| Mining Division: PORCUPINE / Township/Area: KENOGAMING | M or G Plan No.: G3239 |
| Dates Work Performed: From: JANUARY 12th, 1994 To: MARCH 22nd, 1994 | |

Work Performed (Check One Work Group Only)

| | Work Group | Type |
|---|---|---|
| ✓ | Geotechnical Survey | INDUCED POLARIZATION (ground geophysics) INCLUDES LINE CUTTING |
| | Physical Work, Including Drilling | |
| | Rehabilitation | |
| | Other Authorized Work | |
| | Assays | |
| | Assignment from Reserve | |

[redacted]

Receipt

Total Assessment Work Claimed on the Attached Statement of Costs $ 12,508.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

| Name | Address |
|---|---|
| CHRISTOPHER J. BRADBROOK (ATTACH) LINE CUTTING | 87 SELBROOK CRESCENT, OAKVILLE, ONTARIO. L6L 1L2. |
| GEOPHYSICAL [illegible] SERVICES INDUCED POLARIZATION | 353 RAILWAY ST., TIMMINS, ONTARIO. P4N 2P4 |
| SURVEY CONTRACT:- | |
| [illegible] MACNEIL | BOX 1682, GUELPH, ONTARIO N1H 6Z9 |

(attach a schedule if necessary) — List of Personnel attached

Certification of Beneficial Interest * See Note No. 1 on reverse side

| | | |
|---|---|---|
| I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder. | Date: MARCH 30, 1994 | Recorded Holder or Agent (Signature): [signature] |

Certification of Work Report

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

Name and Address of Person Certifying: CHRISTOPHER J. BRADBROOK 87 SELBROOK CRESCENT, OAKVILLE, ONTARIO L6L 1L2.

| Telephone No. | Date | Certified By (Signature) |
|---|---|---|
| (905)-827-1772 | MARCH 30, 1994 | [signature] |

For Office Use Only

| Total Value Cr. Recorded | Date Recorded | Mining Recorder | Received Stamp |
|---|---|---|---|
| $12,508.00 | April 7th/94 | [signature] | |
| | Deemed Approval Date | Date Approved | |
| | Date Notice for Amendments Sent: MAY 10th/94 | | |

AMENDED REPORT.

2.15465

| Work Report Number for Applying Reserve | Claim Number (see Note 2) | Number of Claim Units | Value of Assessment Work Done on this Claim | Value Applied to this Claim | Value Assigned from this Claim | Reserve: Work to be Claimed at a Future Date |
|---|---|---|---|---|---|---|
| | ~~1177255~~ | ~~1~~ | 0 | NIL | 0 | |
| | ~~1177257~~ | 3 | 0 | NIL ~~1600.00~~ | 0 | |
| | 1177258 | 1 | 0 | 400.00 ~~550.00~~ | 0 | |
| | 1177259 | 1 | 0 | 400.00 ~~550.00~~ | 0 | |
| | 1177269 | 4 | 4378 | 3200.00 | [illegible] | 1178. |
| | 1177270 | 1 | 1292 | 800 ~~550.00~~ | 742 | 492 |
| | 1177271 | 1 | 857.00 | 800 ~~550.00~~ | ~~307.00~~ | 57 |
| | 1177272 | 4 | 0 | 1600 ~~2200.00~~ | 0 | |
| | 1177273 | 1 | 0 | 508 ~~550.00~~ | 0 | |
| | 1177282 | 2 | 1770 | 1600 ~~1100.00~~ | ~~670~~ | 170. |
| | 1177283 | 4 | 4211 | 3200.00 | ~~2011~~ | 1011 |
| | 11 | | 12,508 | 12,508 | ~~3908~~ | 2908. |
| | Total Number of Claims | | Total Value Work Done | Total Value Work Applied | Total Assigned From | Total Reserve |

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☒ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

RECORDED

APR - 7 1994

ote 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

ote 2: If work has been performed on patented or leased land, please complete the following:

| I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed. | Signature | Date |
|---|---|---|

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des mines

# Statement of Costs for Assessment Credit

# État des coûts aux fins du crédit d'évaluation

**Mining Act/Loi sur les mines** 2.15405

Transaction No./N° de transaction: W9460.00052

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

## 1. Direct Costs/Coûts directs

| Type | Description | Amount Montant | Totals Total global |
|---|---|---|---|
| Wages Salaires | Labour Main-d'oeuvre | | |
| | Field Supervision Supervision sur le terrain | $1200 | $1200 |
| Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil | Type: Line cutting | $1859-12 | |
| | Ground geophysics | | |
| | Induced polarization | $5492-00 | |
| | Assay preparation | | |
| | And calculation | $2100-00 | $9951-12 |
| Supplies Used Fournitures utilisées | Type: Flagging/rope | $11-99 | |
| | | | |
| | | | |
| | | | $11-99 |
| Equipment Rental Location de matériel | Type: Truck | $429-56 | |
| | | | |
| | | | $429-56 |
| | | Total Direct Costs Total des coûts directs | $11,592-67 |

## 2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

| Type | Description | Amount Montant | Totals Total global |
|---|---|---|---|
| Transportation Transport | Type: Gas | $58-15 | |
| | | | |
| | | | |
| | | | |
| | | | [illegible] |
| Food and Lodging Nourriture et hébergement | Hotel accommodation plus food | $398-78 | [illegible] |
| Mobilization and Demobilization Mobilisation et démobilisation | Airfare + cars | | [illegible] |
| | | Sub Total of Indirect Costs Total partiel des coûts indirects | [illegible] |
| | | Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs) | [illegible] |
| | | Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles) | [illegible] |

**Note:** The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

**Note :** Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

RECORDED
APR - 7 1994
Receipt

### Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

| Total Value of Assessment Credit | | Total Assessment Claimed |
|---|---|---|
| | × 0.50 = | |

### Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

| Valeur totale du crédit d'évaluation | | Évaluation totale demandée |
|---|---|---|
| | × 0,50 = | |

### Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Christopher J. Braddock I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

### Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de ____________________ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

| Signature | Date |
|---|---|
| C. J. Braddock | March 30, 1994 |

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Geoscience Approvals Office
933 Ramsey Lake Rd., 6th Flr
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.15465
Transaction #: W9460.00052

June 27, 1994

Mining Recorder
Timmins

Dear Mr. White:

RE: Approval of Assessment Work on mining claims P 1177258 et. al. in Kenogaming Township.

---

The assessment credits for Geophysics, section 14 of the Mining Act Regulations, as listed on the original Report of Work, have been approved as of June 24, 1994.

Please indicate this approval on the claim record sheets.

If you have any questions concerning this submission please contact Dale Messenger at 670-5858.

Yours sincerely,

Ron C. Gashinski

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

DEM/vni
Enclosures:

cc: Assessment Files Office
Sudbury, Ontario

Resident Geologist
Timmins, Ontario

## REFERENCE

**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY
S.R.O. - SURFACE RIGHTS ONLY
M + S - MINING AND SURFACE RIGHTS

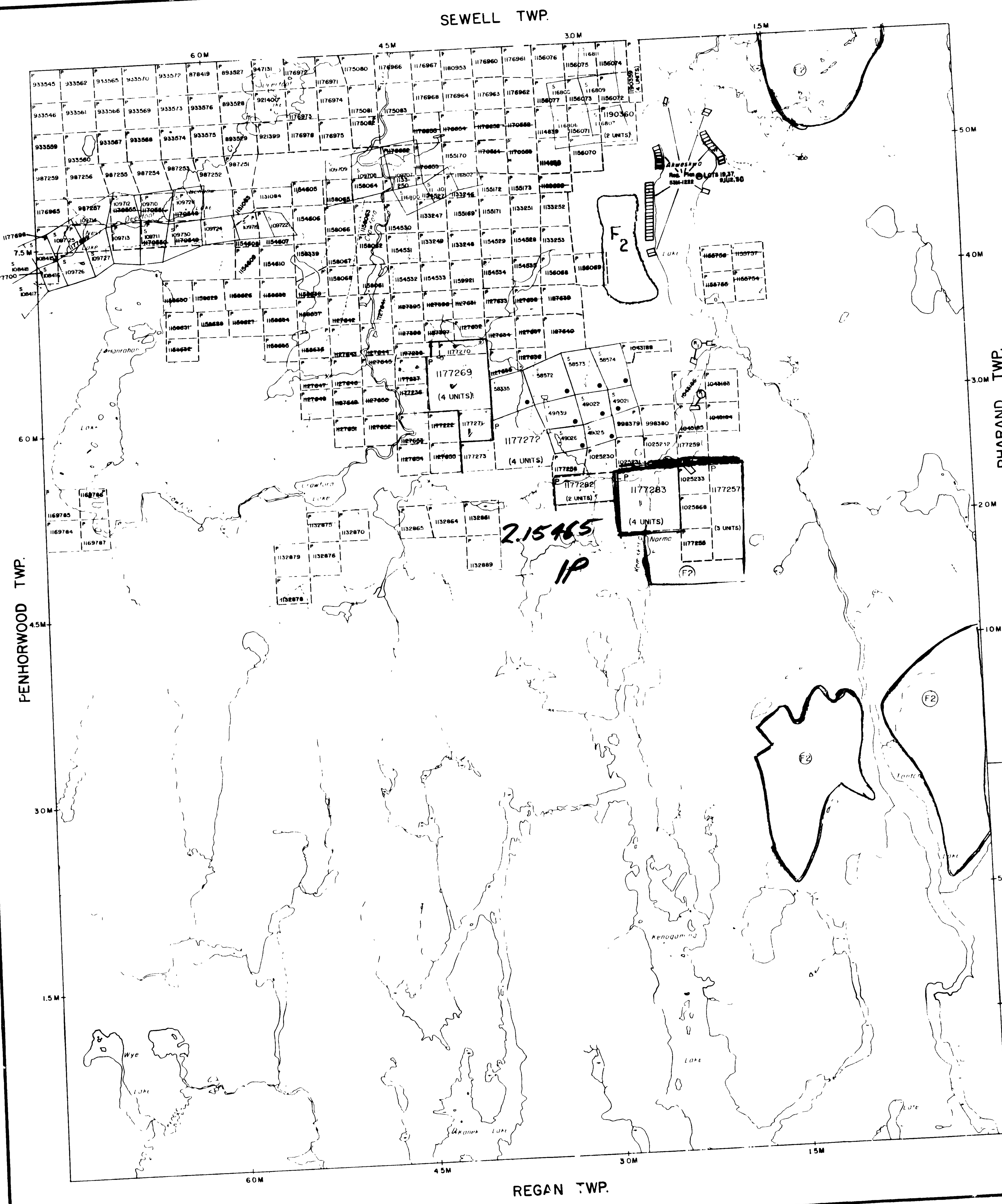
Description Order No. Date Disposition File

(R) PROPOSED COTTAGING AREAS NOTICE RECEIVED DECEMBER 22, 1988

THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE

(F2) THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1994/95 FURTHER INFORMATION AVAILABLE ON FILE

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 RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.




## 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 OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

## 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 | ▼ |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | Ⓡ |
| CANCELLED | ⊗ |
| SAND & GRAVEL | Ⓢ |

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP
# KENOGAMING

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY

Ontario Ministry of Natural Resources Land Management Branch

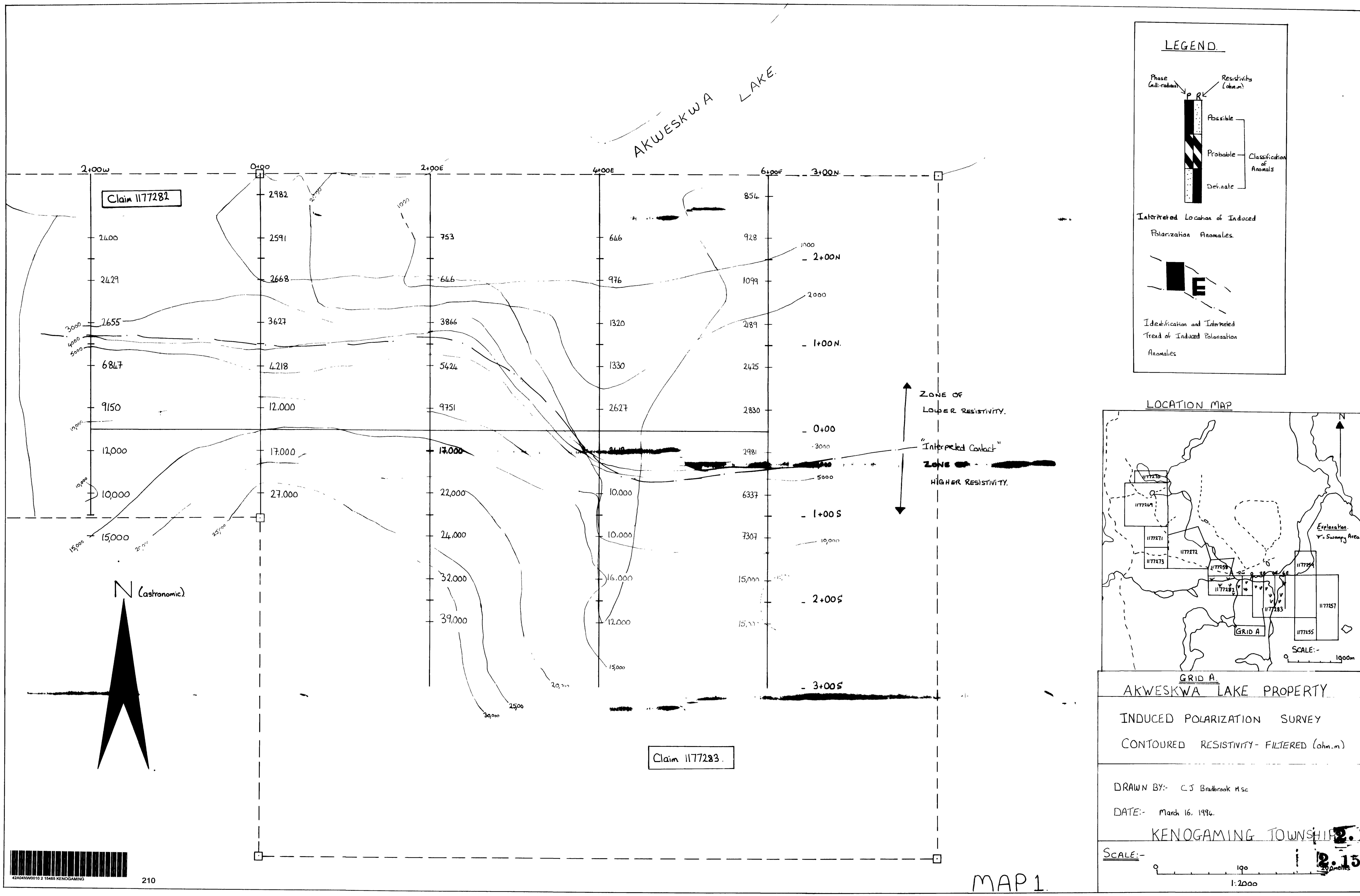
2.15465

Date: APRIL 1985
Number: G-3239

G-3239

42A04NW0010 2.15465 KENOGAMING

200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6+00E
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2+00N
1+00N
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Claim 1177282
Claim 1177283
2982
2591
2668
3627
4218
12,000
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27,000
2400
2429
2655
6847
9150
12,000
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15,000
753
646
3866
5424
9751
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16,000
12,000
854
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2189
2425
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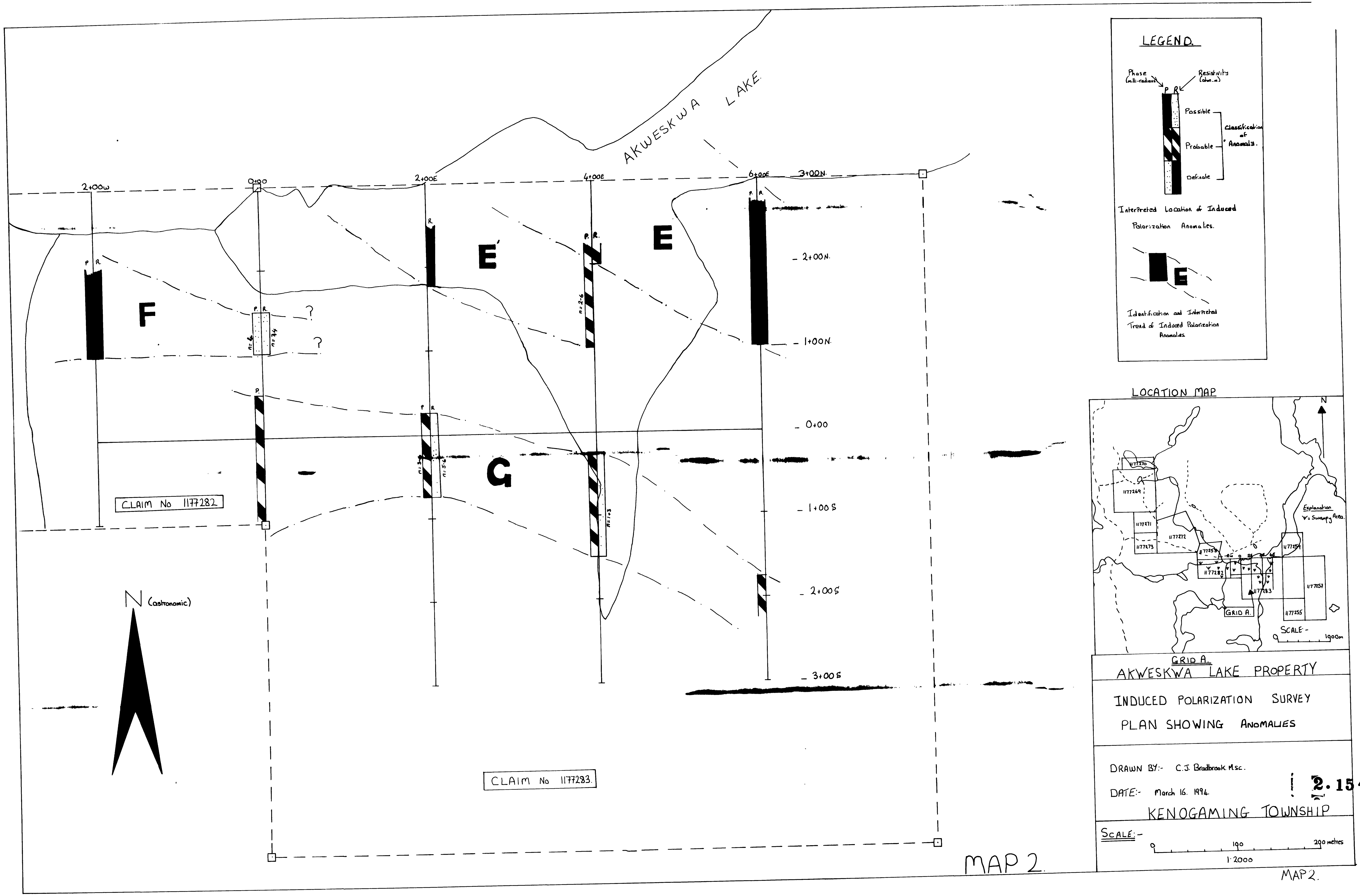
6337
7307
15,000
ZONE OF LOWER RESISTIVITY.
"Interpreted Contact"
ZONE OF HIGHER RESISTIVITY.
N (astronomic)
LEGEND
Phase (milli-radians)
Resistivity (ohm-m)
P R
Possible
Probable
Definite
Classification of Anomaly
Interpreted Location of Induced Polarization Anomalies.
E
Identification and Interpreted Trend of Induced Polarization Anomalies
LOCATION MAP
N
Exploration
V's Swampy Area.
GRID A
SCALE:- 1900m
GRID A
AKWESKWA LAKE PROPERTY
INDUCED POLARIZATION SURVEY
CONTOURED RESISTIVITY - FILTERED (ohm-m)
DRAWN BY:- C.J. Bradbrook M.Sc
DATE:- March 16, 1994.
KENOGAMING TOWNSHIP
SCALE:-
0 100 200 metres
1:2000
2.15485
42A04NW0010 2.15485 KENOGAMING
210
MAP 1.

MAP 1.

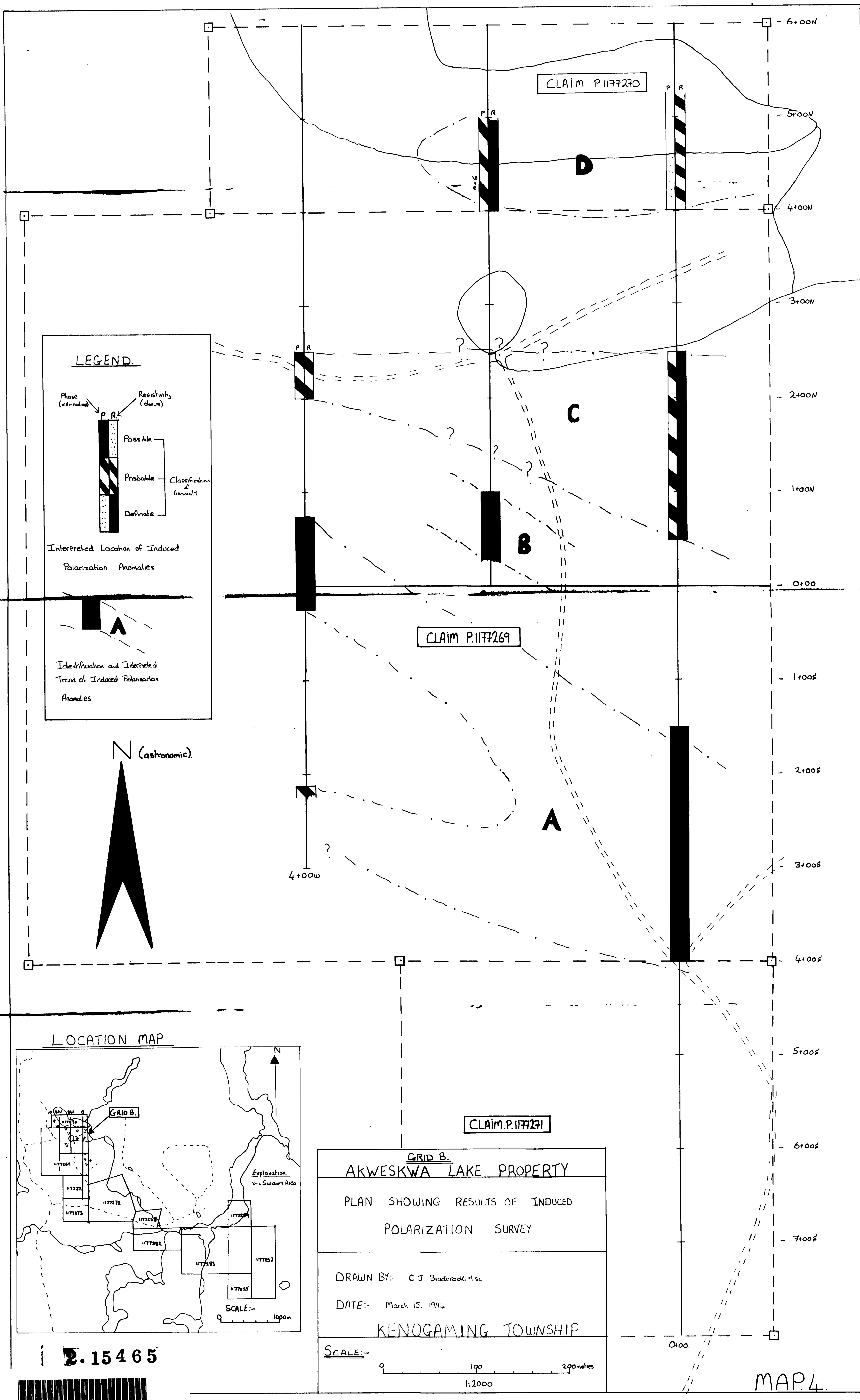



42A04NW0010 2.15465 KENOGAMING

220


42A04NW0010 2.15465 KENOGAMING

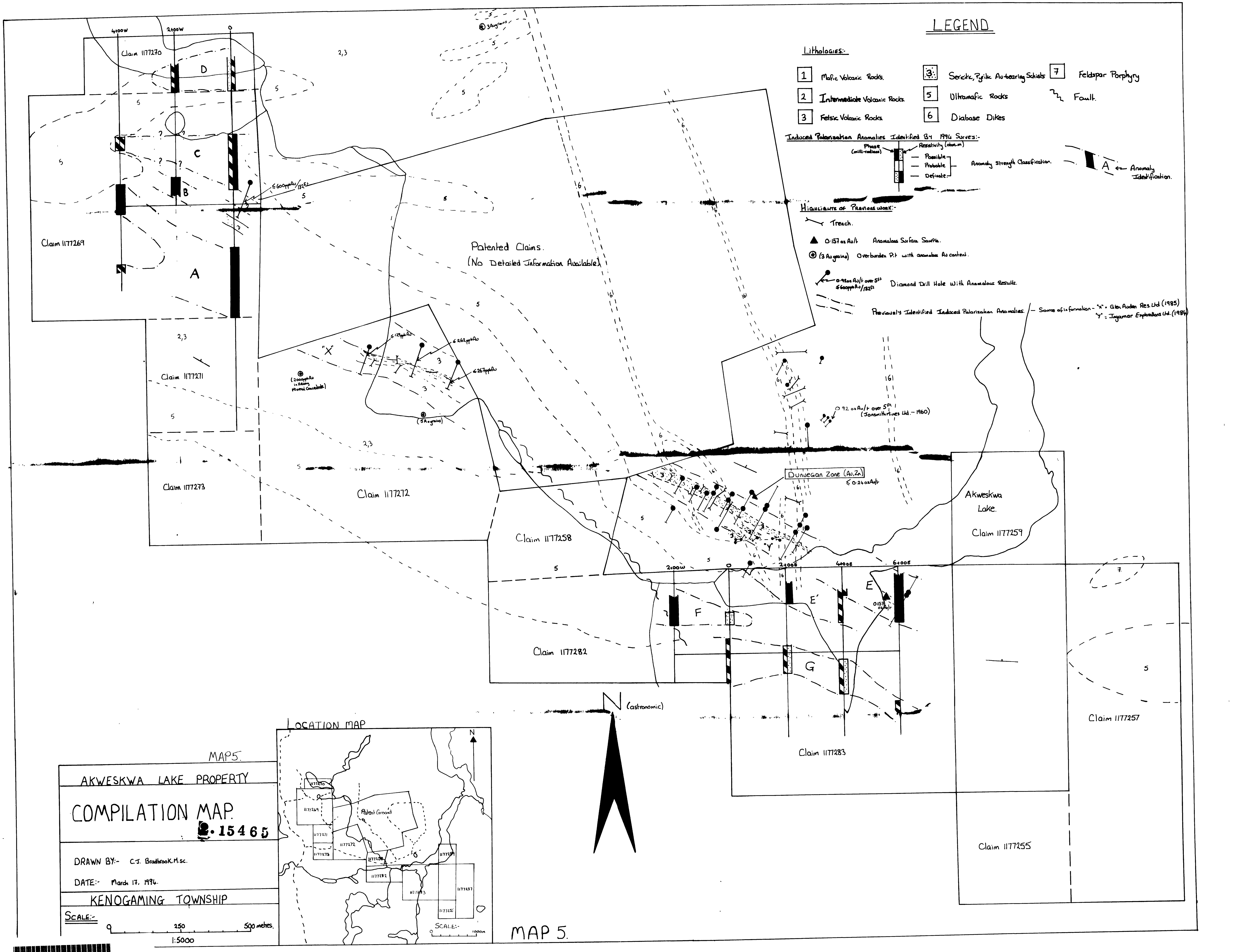
230




2.15465

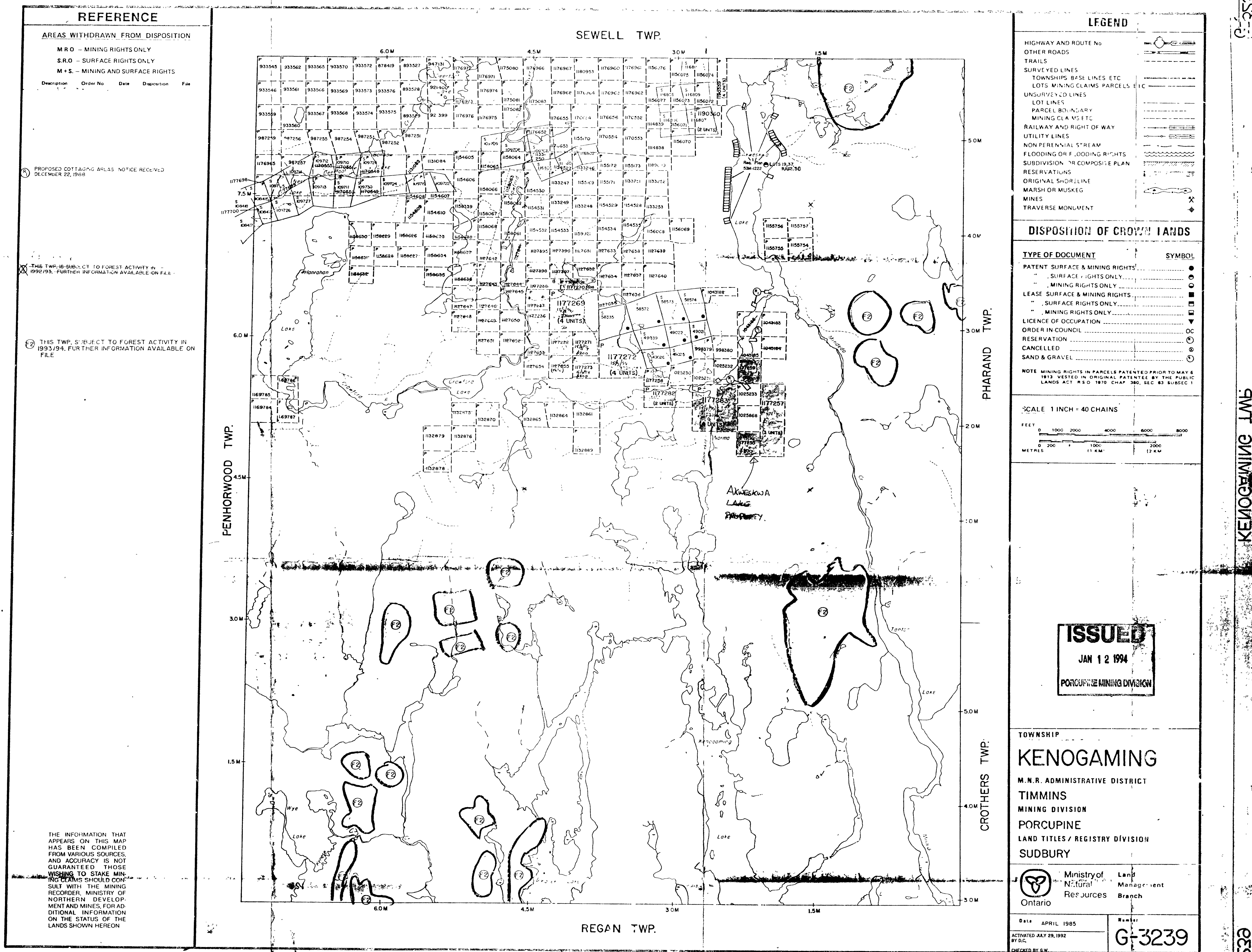
42A04NW0010 2.15465 KENOGAMING

240




42A04NW0010 2 15465 KENOGAMING

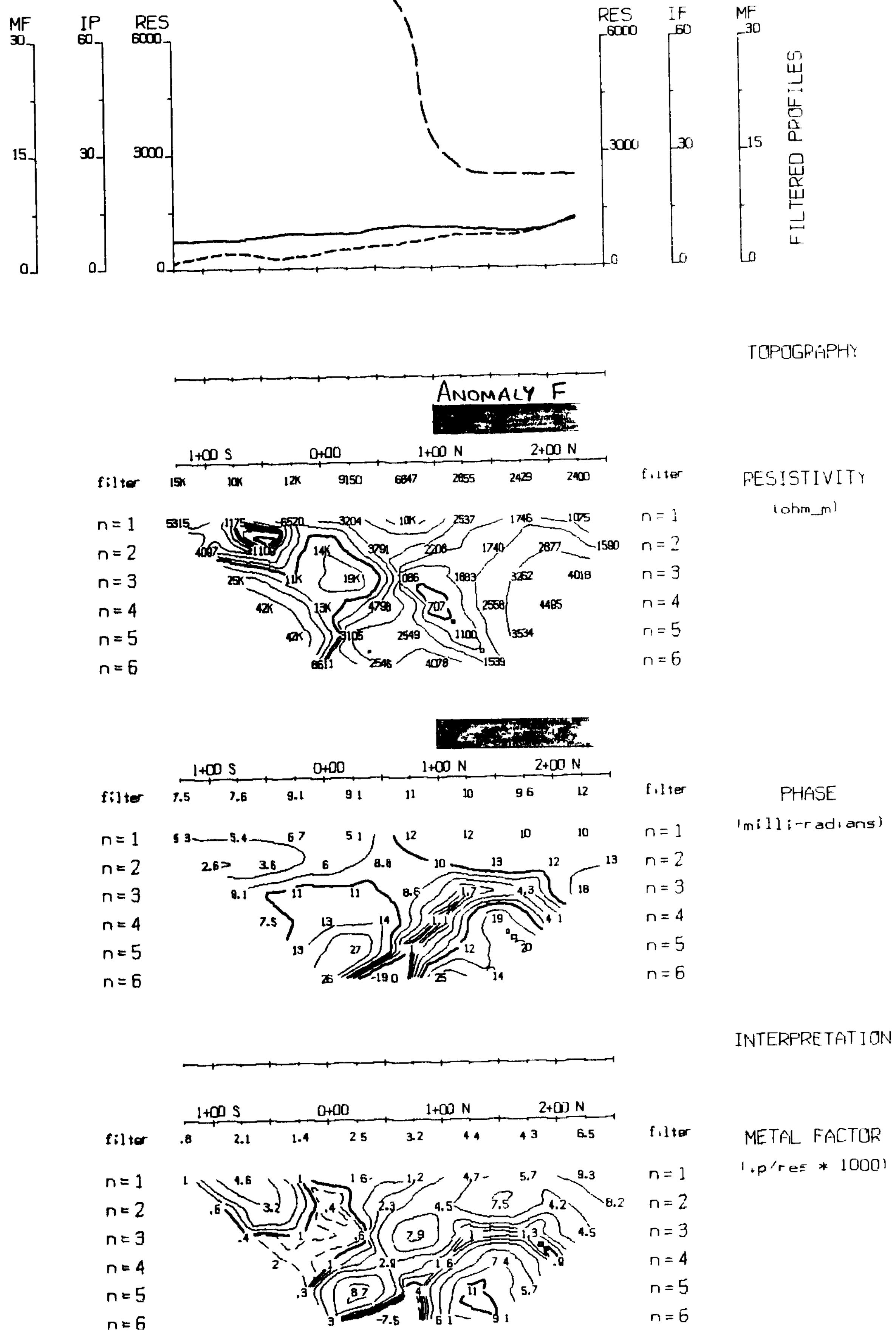
250


REFERENCE
AREAS WITHDRAWN FROM DISPOSITION
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M + S. – MINING AND SURFACE RIGHTS
Description Order No. Date Disposition File
THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1993/94. FURTHER INFORMATION AVAILABLE ON FILE
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 RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON
SEWELL TWP.
REGAN TWP.
PENHORWOOD TWP.
PHARAND TWP.
CROTHERS TWP.
Akweskwa Lake Property.
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 OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT
DISPOSITION OF CROWN LANDS
TYPE OF DOCUMENT
SYMBOL
PATENT, SURFACE & MINING RIGHTS
LEASE, SURFACE & MINING RIGHTS
LICENCE OF OCCUPATION
ORDER IN COUNCIL
RESERVATION
CANCELLED
SAND & GRAVEL
SCALE: 1 INCH = 40 CHAINS
ISSUED JAN 12 1994 PORCUPINE MINING DIVISION
TOWNSHIP
KENOGAMING
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY
Ministry of Natural Resources
Land Management Branch
Ontario
Date: APRIL 1985
Number
G-3239
KENOGAMING TWP.
G-3239

MAP.6.

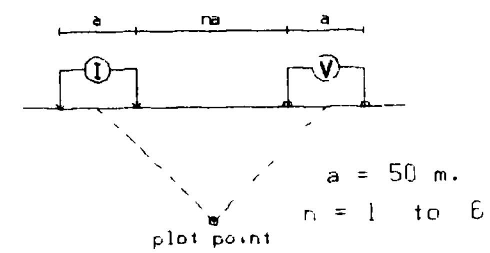
260

FIGURE 5.




# Line 200 W

Dipole-Dipole Array




a = 50 m.
n = 1 to 6

Filtered Profiles

| | | filter |
|---|---|---|
| Resistivity | – – – – – | * |
| Polarization | ———— | * * |
| Metal Factor | - - - - - - - - | * * * |
| | | * * * * |

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . . .

Instruments: IPT1, TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

## INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid A,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

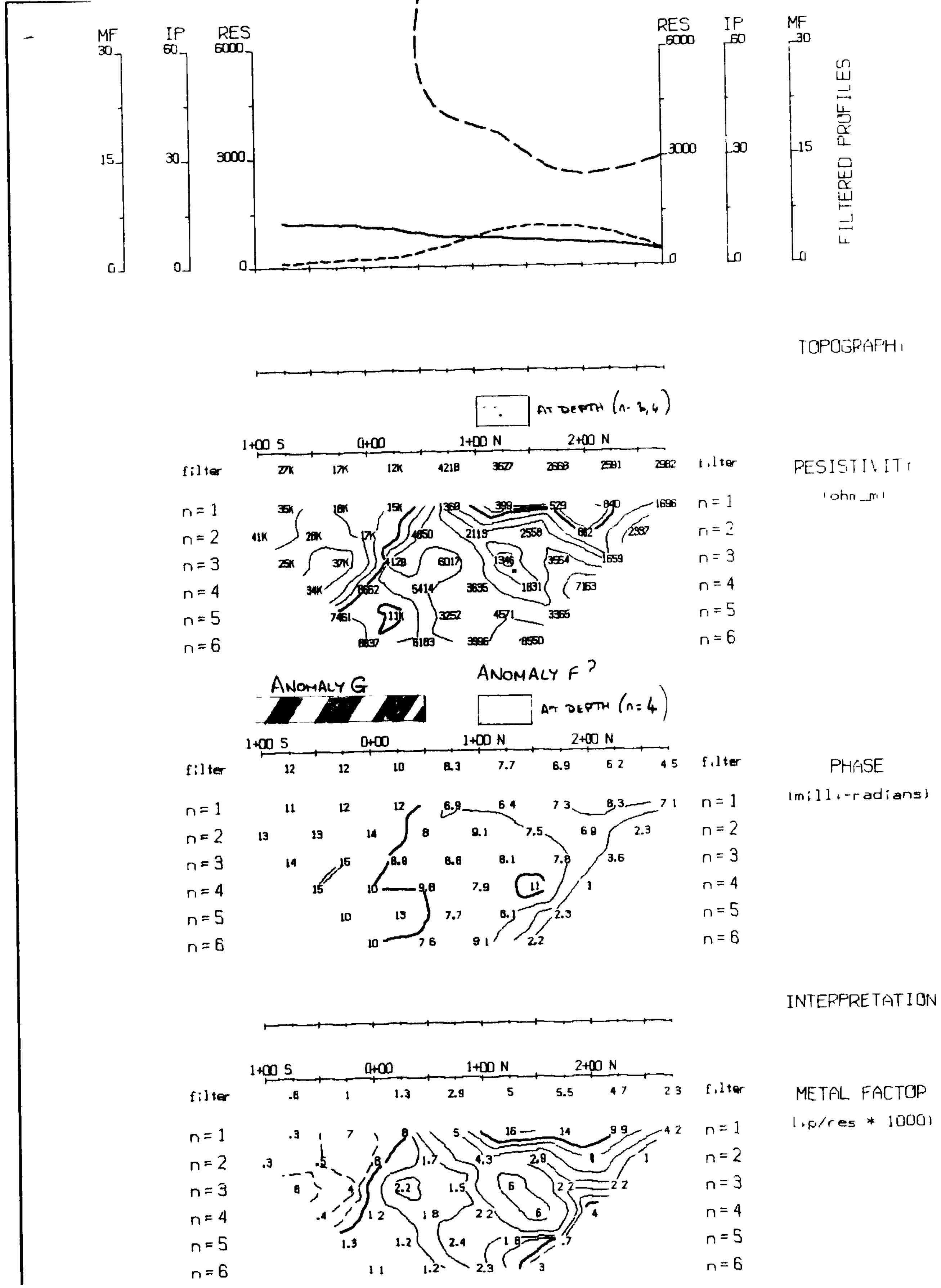
Scale: 1 : 5000

MERTENS & MacNEIL LTD.

42A04NW0010 2 15465 KENOGAMING

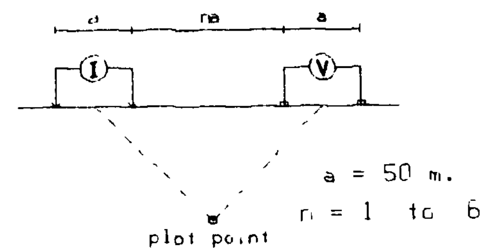
..., Canada

FIGURE 6.




# Line 000 E

Dipole-Dipole Array

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Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instruments: IPT1, TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid A,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

Scale: 1 : 5000

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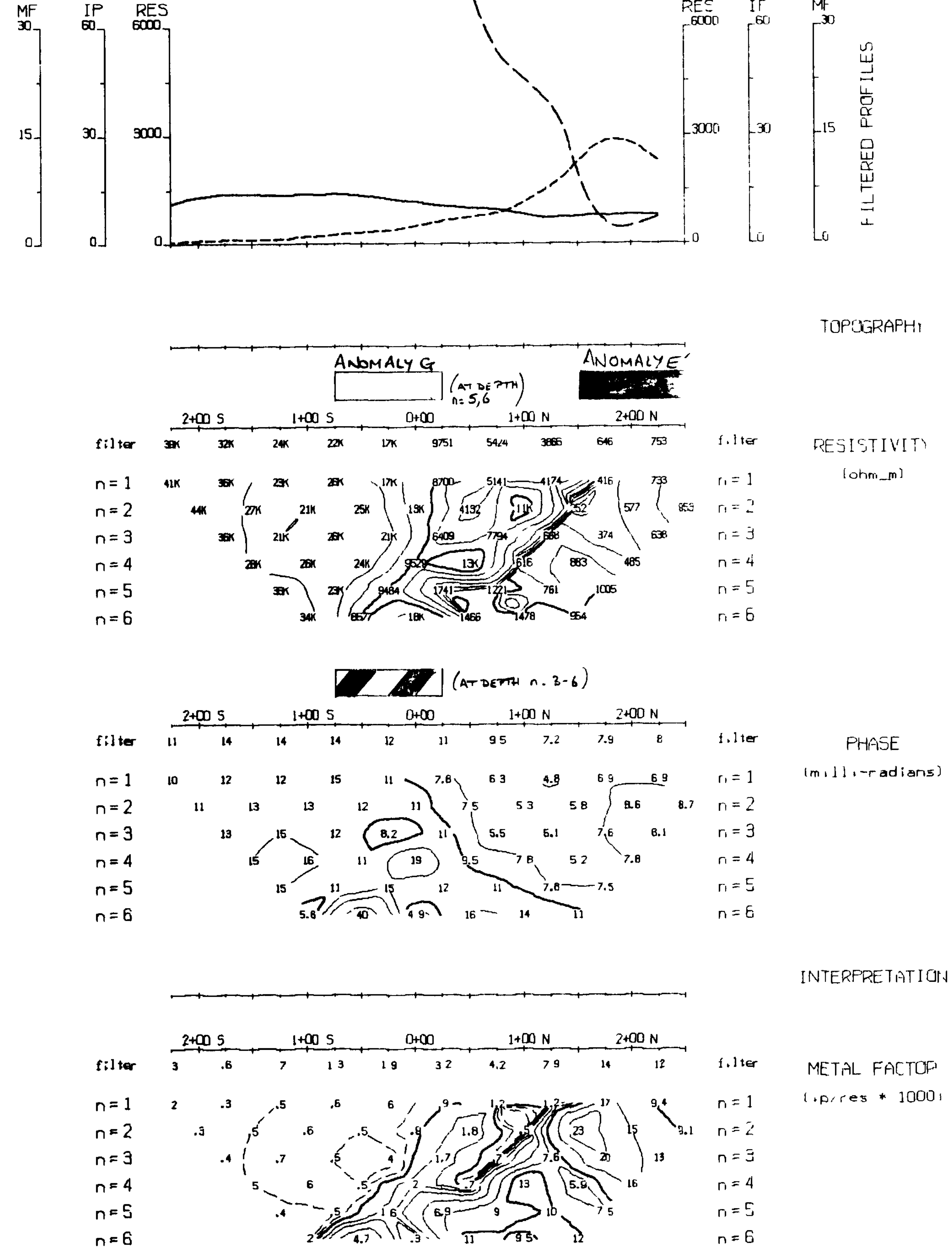
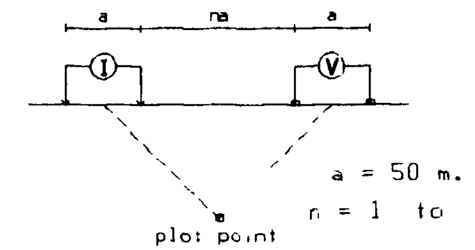
Figure 7.




# Line 200 E

Dipole-Dipole Array

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| Polarization | ———— | * * |
| Metal Factor | -------- | * * * |
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Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instruments: IPT1, TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid A,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

Scale: 1 : 5000

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onto, Canada

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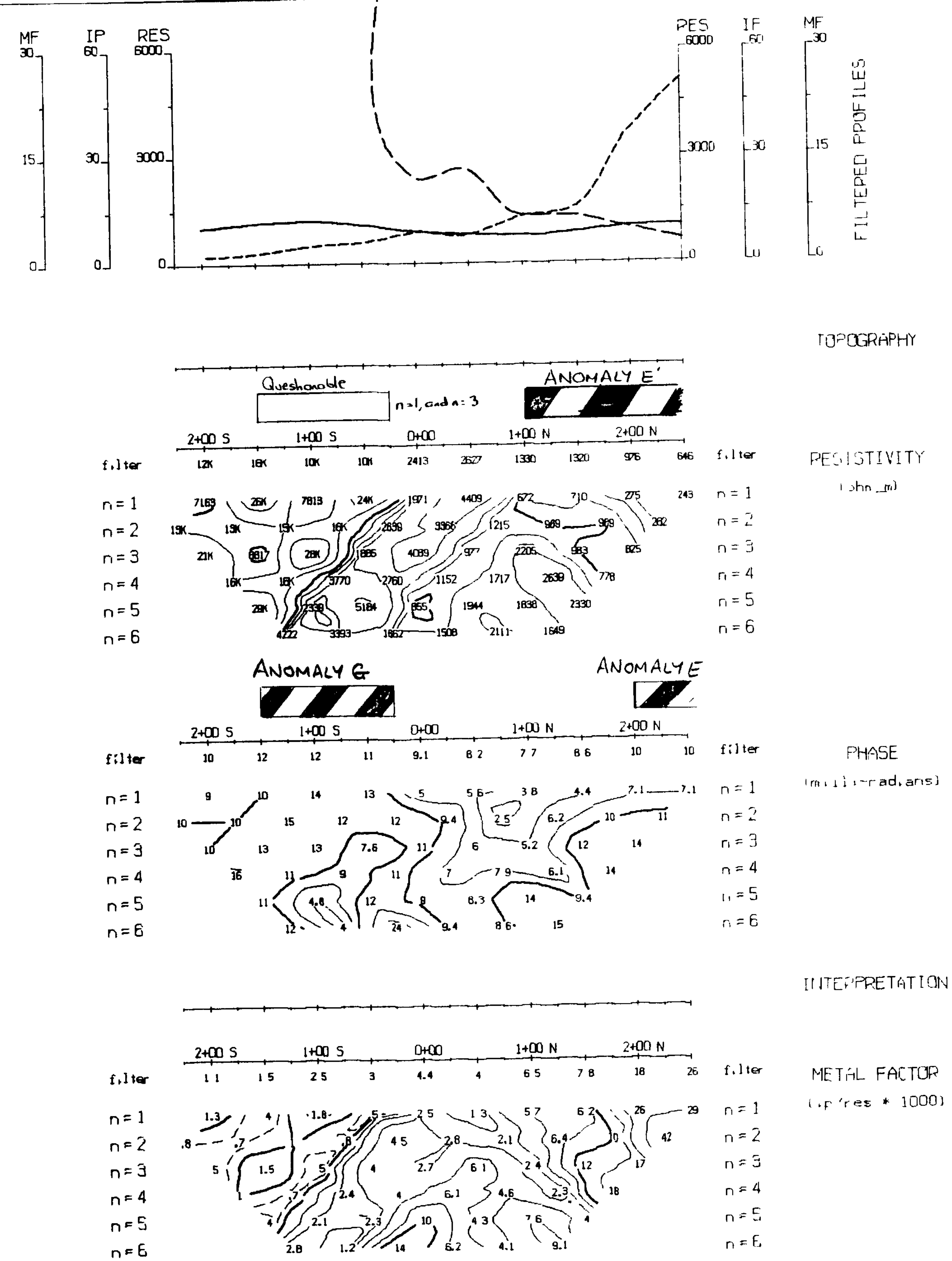
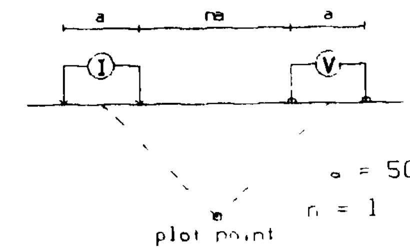
FIGURE 8.




# Line 400 E

Dipole-Dipole Array




a = 50 m.
n = 1 to 6

Filtered Profiles

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| Resistivity | — — — — | * |
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| Metal Factor | -------- | * * * |
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Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

Instruments: IPT1, TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid A,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

Scale: 1 : 5000

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ito, Canada

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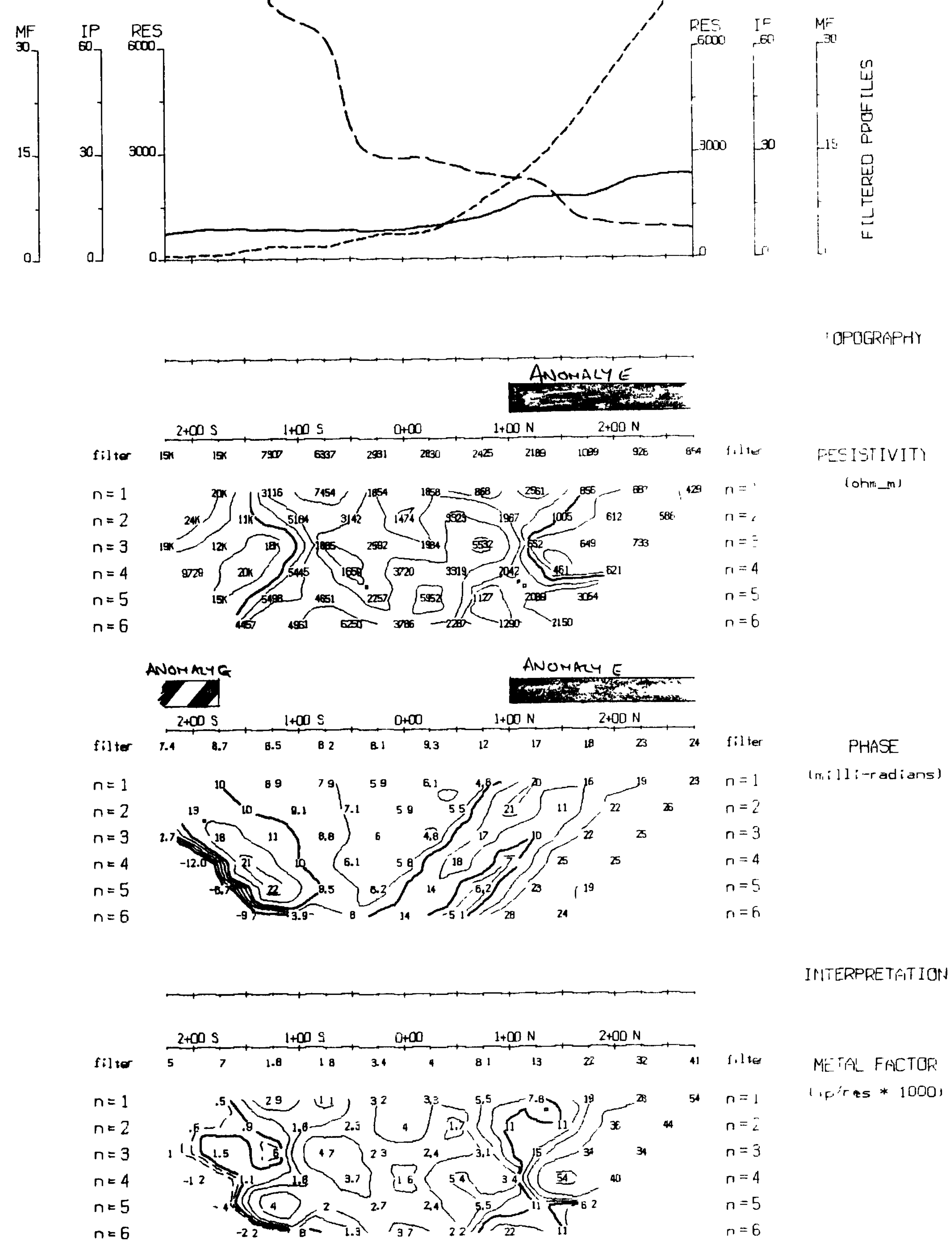
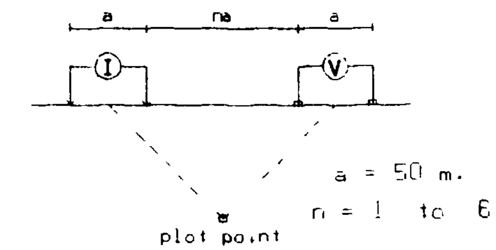
300

Figure 9.




# Line 600 E

Dipole-Dipole Array

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| Polarization | ———— | * * |
| Metal Factor | ———— | * * * |
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Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instruments: IPT1,TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid A,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

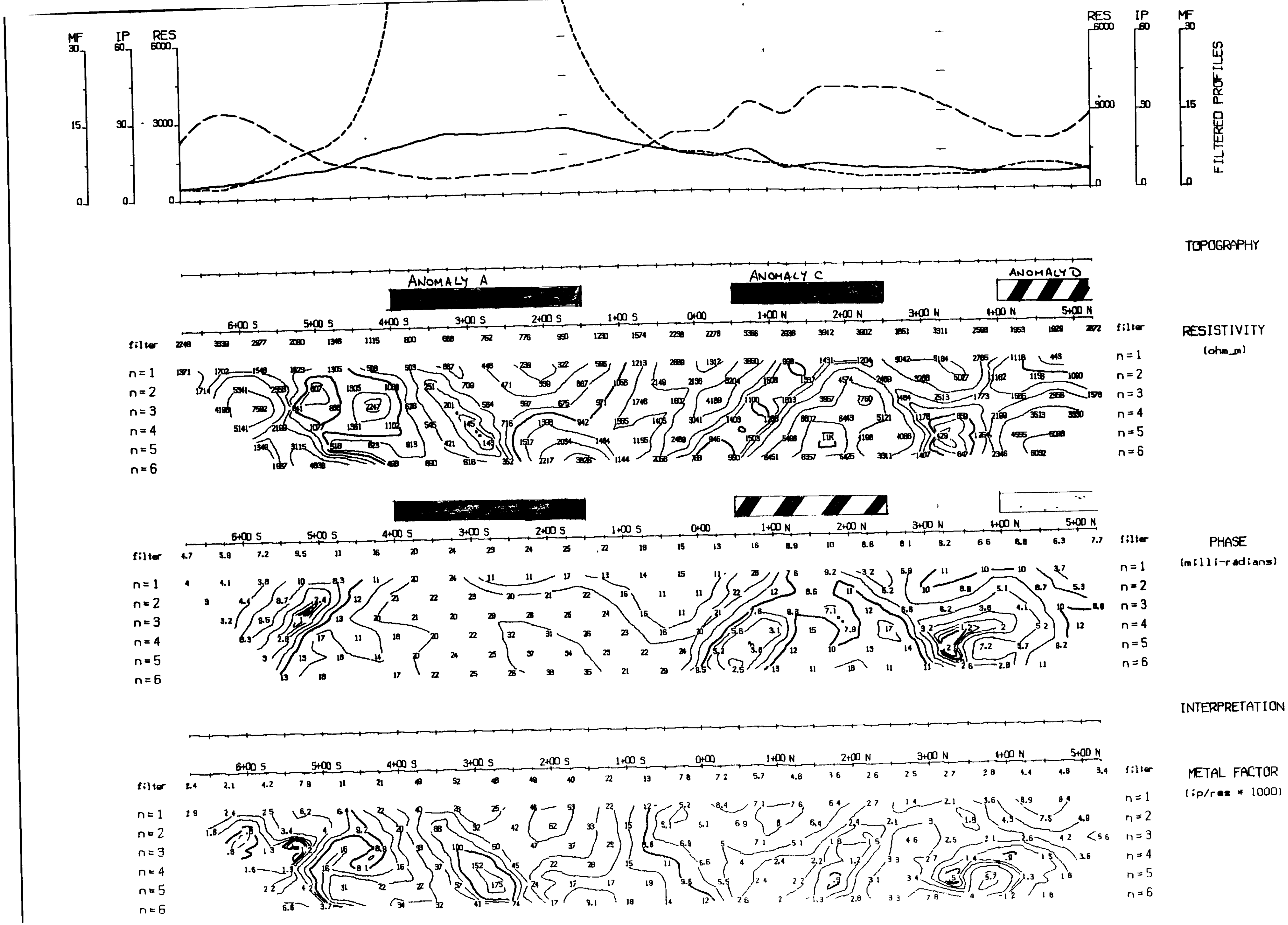
Scale: 1 : 5000

MERTENS & MacNEIL LTD.

Toronto, Canada

42A04NW0010 2 15465 KENOGAMING

Figure 10

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Resistivity
Polarization
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Logarithmic Contours 1, 1.5, 2,

Instruments: IPT1
Frequency:
Operator: J

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Kenogaming T
Timmins,

Date: Feb \ 1994 N.T

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Toronto, Canada

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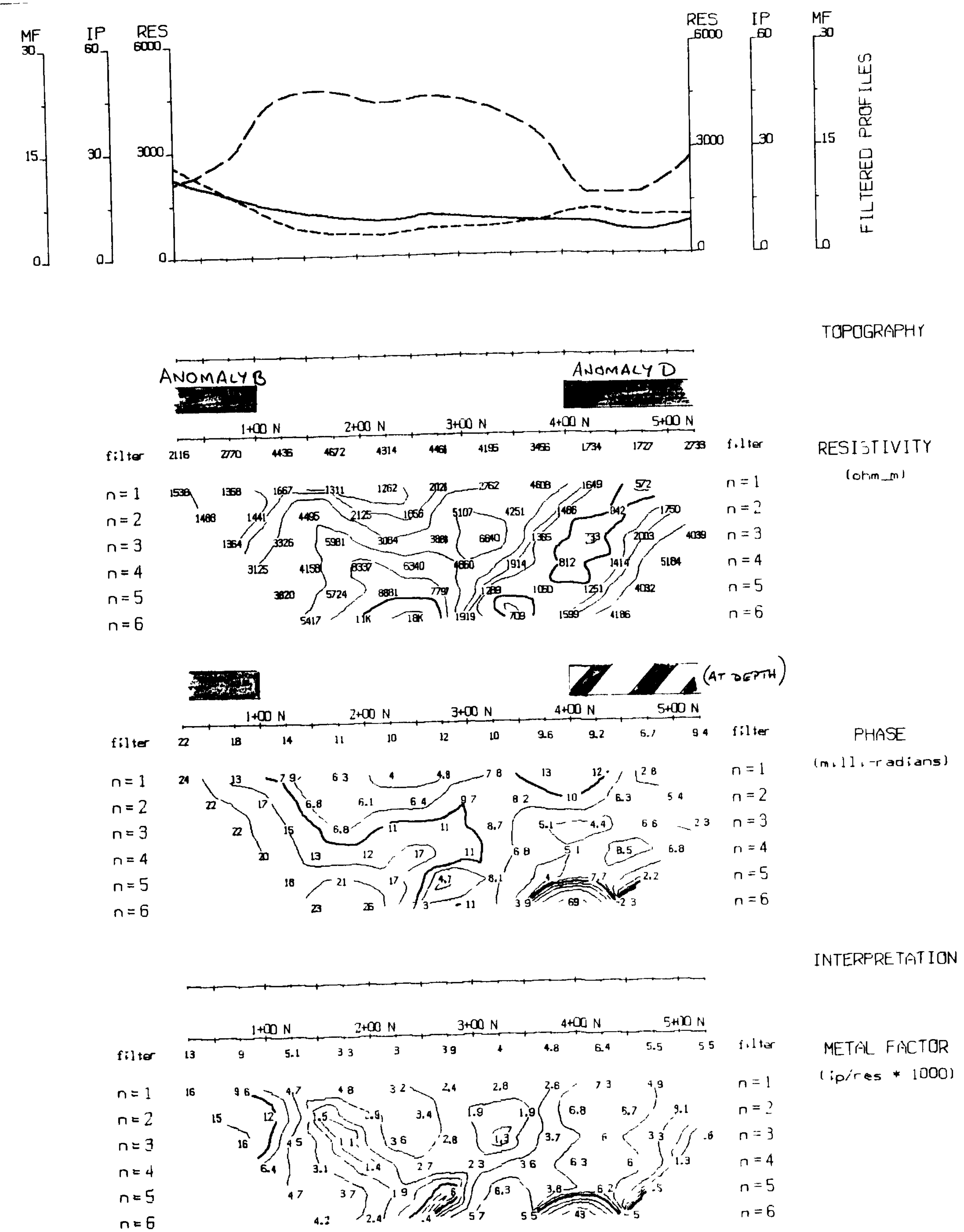
FIGURE 11.




# Line 200 W

Dipole-Dipole Array

a = 50 m.
n = 1 to 6
plot point

Filtered Profiles

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|---|---|---|
| Resistivity | — — — — | * |
| Polarization | ———— | * * |
| Metal Factor | - - - - - - | * * * |
| | | * * * * |

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instruments: IPT1,TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid B,
Timmins, Ontario

Date: Feb \ 1994 N.T.S.

Scale: 1 : 5000

MERTENS & MacNEIL LTD.

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

42A04NW0010 2 15465 KENOGAMING

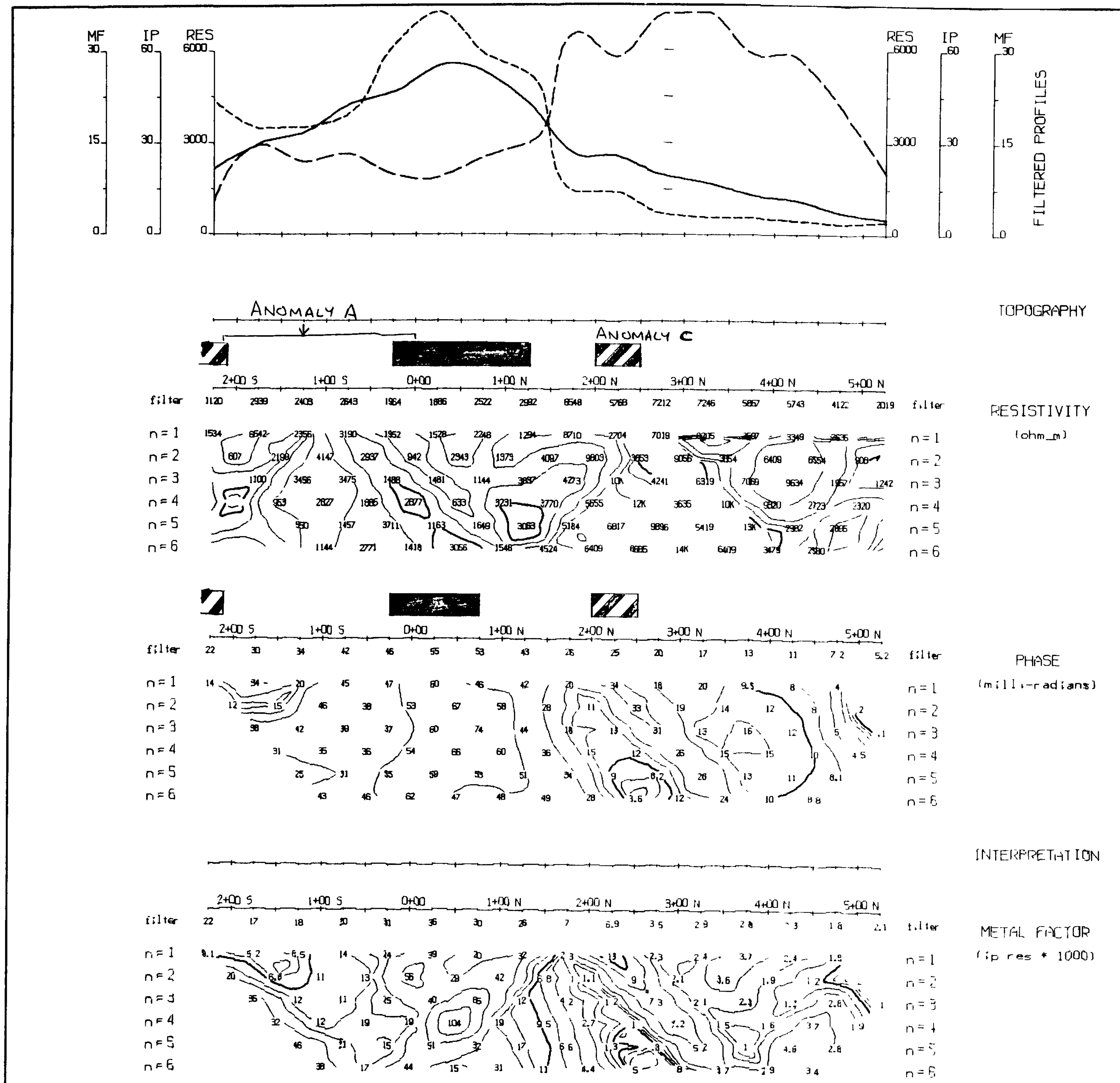
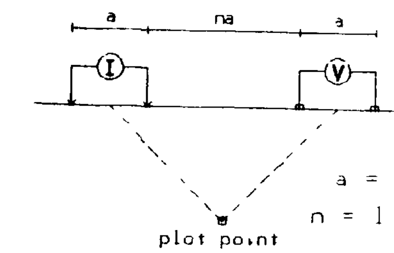



FIGURE 12.

# Line 400 W

Dipole-Dipole Array




Filtered Profiles

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| Resistivity | — — — — | * |
| Polarization | ———— | * * |
| Metal Factor | - - - - - - | * * * |
| | | * * * * |

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instruments: IPT1, TURBO IPV-4
Frequency: 1.0 Hz.
Operator: J.M.N.

CHRIS BRADBROOK

INDUCED POLARIZATION SURVEY

Kenogaming Twp. Grid B,
Timmins, Ontario

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