

2.17817

REPORT ON
INDUCED POLARIZATION

NORTHEAST TISDALE PROJECT
TISDALE TOWNSHIP

JANUARY 1997

D. LONDRY



42A11SE0138 2.17817 TISDALE

010

SUMMARY AND RECOMMENDATIONS

An induced polarization survey was carried out over the Northeast Tisdale property in November, 1996.

A high chargeability anomaly, which was outlined in a 1994 IP survey, was extended to Line 800 West to the west and Line 100 West to the east. This anomaly is located on strike with mineralization on the former Beaumont property and represents a good drill target.

It is recommended that the induced polarization survey is completed over the rest of the property.

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9. PSEUDOSECTION, LINE 300 EAST
10. PSEUDOSECTION, LINE 400 EAST

INTRODUCTION

An induced polarization (IP) survey was carried out on the Northeast Tisdale property during November of 1996. The purpose of the survey was to determine the limits of a chargeability anomaly which was partially defined in a 1994 survey.

The property is located in the northeast corner of Tisdale Township, approximately 9 kilometres northeast of the city of Timmins, Porcupine Mining Division (Figure 1(a)). It is accessed by travelling north from Timmins along Highway 655 and then east along the Bell Lake Road which passes through the middle of the claims.

The property consists of six contiguous claims which are located in Lots 2,3 and 4, Concession VI, Tisdale Township (Figure 1(b)). Four of the claims are single 40 acre claim units and the other two consist of two, 40 acre claim units (Table 1).

The author of this report carried out the survey with assistance from B. LeRoy, C. McKay and M. Gauthier.

CLAIM NUMBER	NUMBER OF UNITS	DESCRIPTION	TOWNSHIP
P1115310	1	SW1/4 N1/2, Lot 2, Con VI	Tisdale
P1182657	1	NE1/4 N1/2, Lot 3, Con VI	Tisdale
p1182592	1	SW1/4 N1/2, Lot 3, Con VI	Tisdale
P1193767	1	SE1/4 N1/2, Lot 4, Con VI	Tisdale
P1193768	2	NW1/4 NE1/4 S1/2, Lot 4, Con VI	Tisdale
P1193845	2	SE1/4 N1/2, NE1/4 S1/2, Lot 2, Con VI	Tisdale

Table 1 : Claim Description

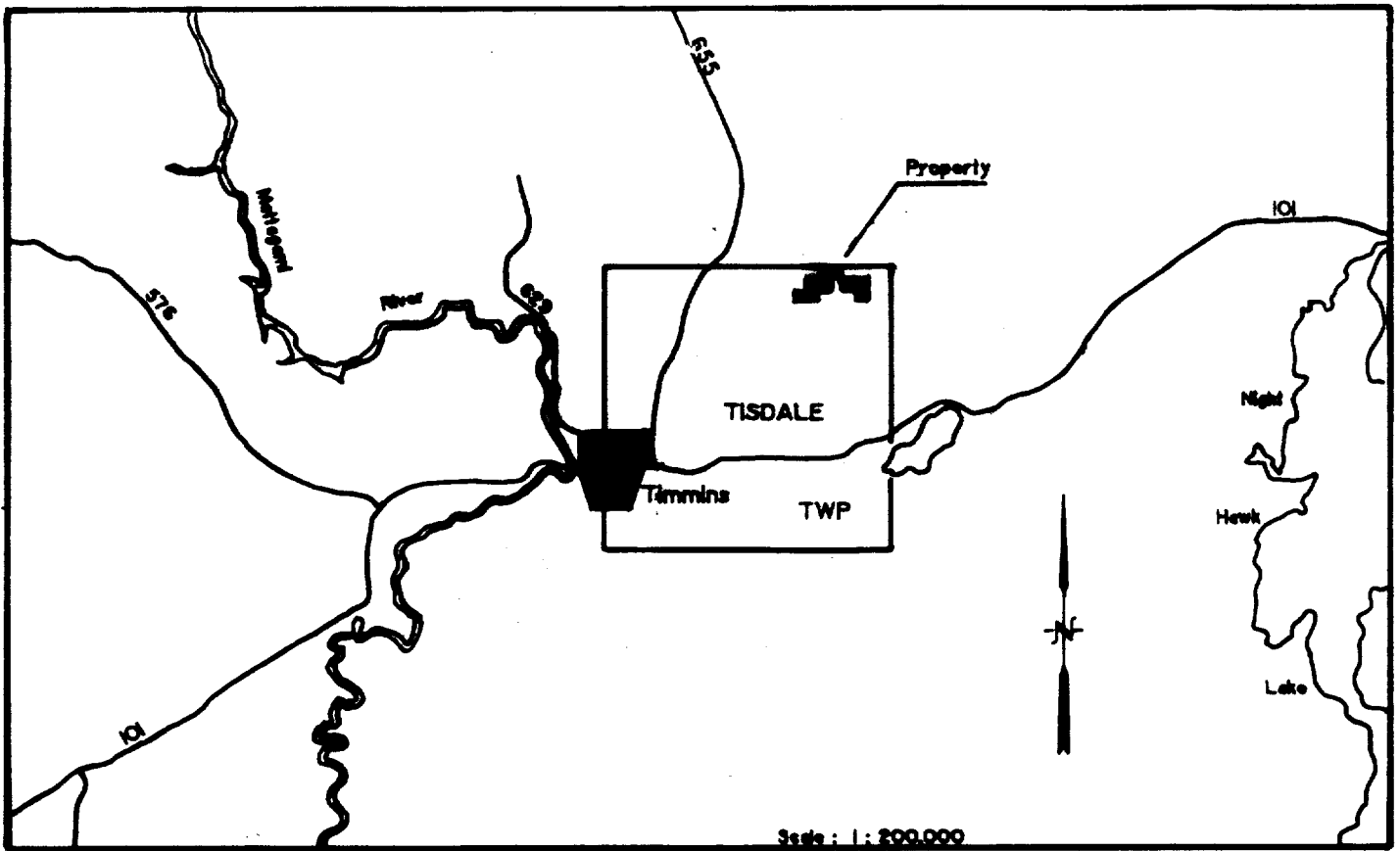


Figure 1 (a): Location Map

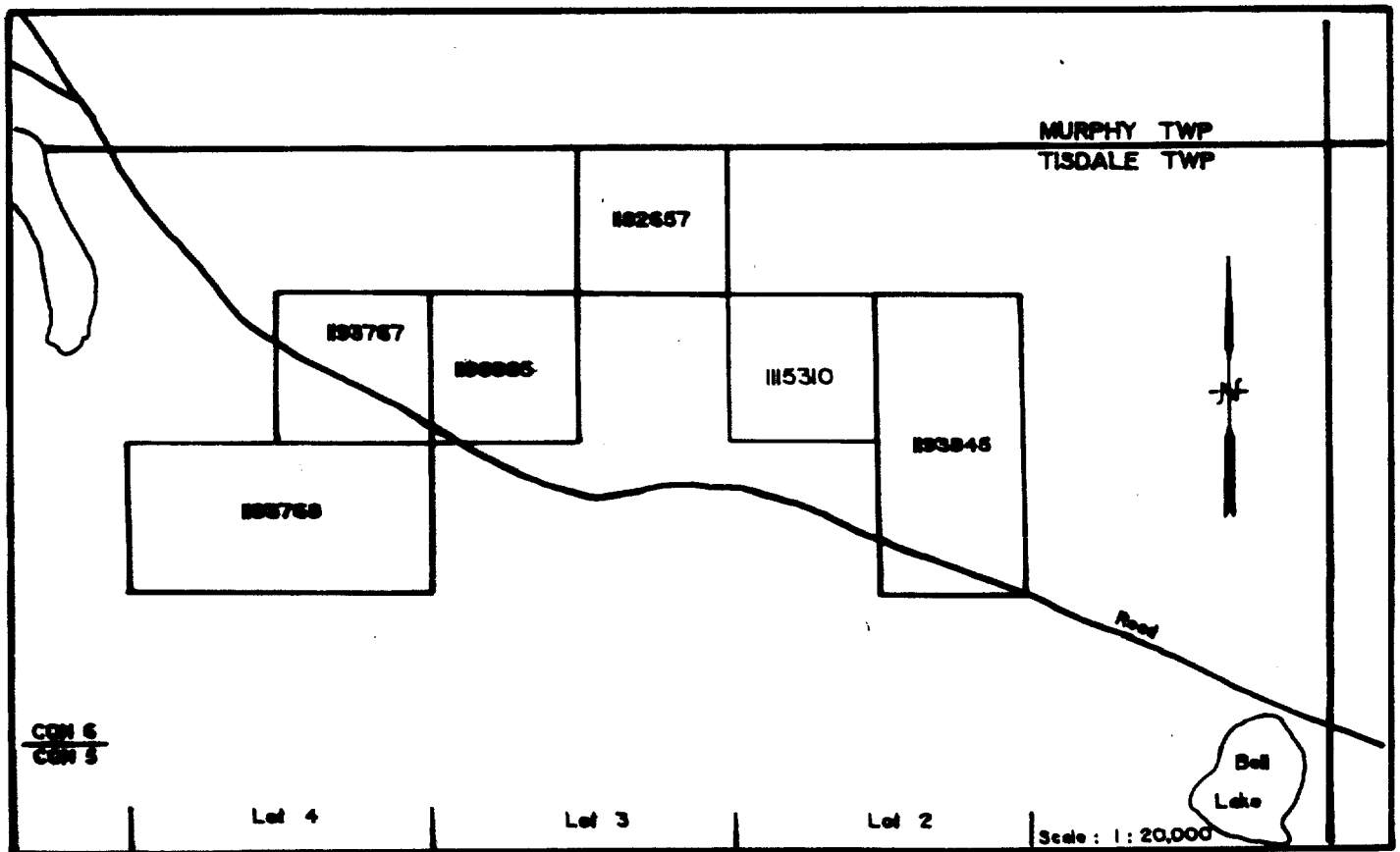


Figure 1 (b): Claim Map

GENERAL GEOLOGY

Tisdale Township was first mapped by Burrows (1915,1924) following the discovery of the Timmins gold camp in 1909. Subsequently, Hurst (1939) and Ferguson et al (1968) provided more detailed maps of Tisdale Township and the immediate surrounding area.

The claims are located on the south flank of the North Tisdale anticline (Ferguson, 1968), the axis of which trends east-west through the most northern claim on the property. Work on the former Beaumont claim and to the south, on the former Kinch property, show that the area is underlain by intermediate volcanic flows which strike east to northeast, face south and dip steep to the south. The Burrows-Benedict fault strikes north northwest along the west edge of the property. The Destor-Porcupine Fault is located approximately 5 kilometres to the south.

Gold mineralization on the former Beaumont claim is associated with quartz carbonate veins within two carbonatized zones. These zones are located in basalt flows and trend east northeast, conformable to the volcanics. The quartz veins are also sparsely mineralized with pyrite, pyrrhotite, chalcopyrite and tourmaline.

PREVIOUS WORK

The following description of previous work, carried out on and around the Northeast Tisdale property, is taken from assessment files in the office of the resident geologist in Timmins (Table 2).

The Northeast Tisdale Property is part of a 15 claim group which was originally held by North Davidson Mines Limited in the early 1900's. It was later acquired by Beaumont Gold Mines

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE #
1948	Golden/Godbeau Porcupine	Geol	Holes 1 to 8	383
1990	Asarco Exploration Co. of Can. Ltd.	Mag, VLF	BE-90-1 to 4	3353
1990	Moneta Porcupine Mines Inc.	Mag, VLF		2727
1991	Total Energold Corporation	Mag, VLF, HLEM		3479

Table 2. Summary of previous assessment work.

Limited in 1920, Harris Consolidated Mines Limited in 1926, Ambassador Mines Limited in 1929, R.J.C. Godden and associates in 1935, Godden Porcupine Gold Mines Limited in 1941 and Godbeau Porcupine Mines Limited in 1953.

Most of the early work carried out by these companies was concentrated on alteration zones on the claim to the east of claim 1198985. In 1917, North Davidson Mines Limited drilled 1500 feet and in 1922, Beaumont Gold Mines Limited sunk a shaft to 320 feet with some crosscutting on the 150 and 300 foot levels. In 1927, Harris Consolidated Mines Limited drilled four holes totalling 1600 feet. In 1928, they deepened the shaft to 710 feet, established levels at 450 and 600 feet and carried out some underground development work. R.J.C. Godden and associates drilled 8 holes in 1940 totalling 5650 feet; five of the holes were drilled to test alteration zones on the Beaumont claim and three holes were drilled close to the boundary with the former Kinch property to the south. In 1954, Godbeau Porcupine Mines Limited drilled four holes close to the Beaumont shaft.

More recently, geophysical work has been carried out on parts of the Northeast Tisdale Property by Moneta Porcupine Mines Inc. and Asarco Exploration Company of Canada Limited.

In 1990, Moneta Porcupine Mines Inc. carried out magnetic and VLF surveys over a block of

claims which includes the present property except for claim 1182657. The surveys were run along north-south lines spaced every 400 feet. The magnetic readings were taken with a Scintrex MP-2 proton precession magnetometer and the VLF readings were taken with a Geonics EM-16 using Cutler, Maine as the transmitter station.

In 1990, Asarco Exploration Company of Canada Limited ran geophysical surveys over two claim groups in northeast Tisdale Township. One group consisted of 4 claims in the N1/2 of Lot 1, Concession VI and other consisted of 1 claim unit in the NE1/4 N1/2 of Lot 3, Concession VI (claim 1182657). The surveys were run on north-south lines spaced every 100 metres; the magnetic survey was conducted with the Scintrex MP-2 proton precession magnetometer and the VLF survey was run with the Geonics EM-16 using Cutler, Maine as the transmitter station.

In 1991, Total Energold Corporation carried a geophysics program on claims to the east and north of the present property. The program consisted of magnetic, VLF and HLEM surveys along north-south lines spaced every 100 metres. The magnetic survey was run with a EDA Omni Plus proton precession magnetometer, and the VLF survey was run with a Geonics EM-16 using Cutler Maine as the transmitter. The HLEM survey was run with an Apex Parametrics MaxMin II with a coil separation of 100 metres and frequencies of 444 and 1777 Hertz.

In 1993, the present claim holders cut a grid on the western claims and magnetic and VLF surveys were carried out. In 1994, the grid was extended to cover the east claims and the magnetic and VLF survey were completed on the new lines (Figure 2). An HLEM survey was run on all of the lines and an IP survey was run on Lines 0 to 500 West, excluding Line 100 West.

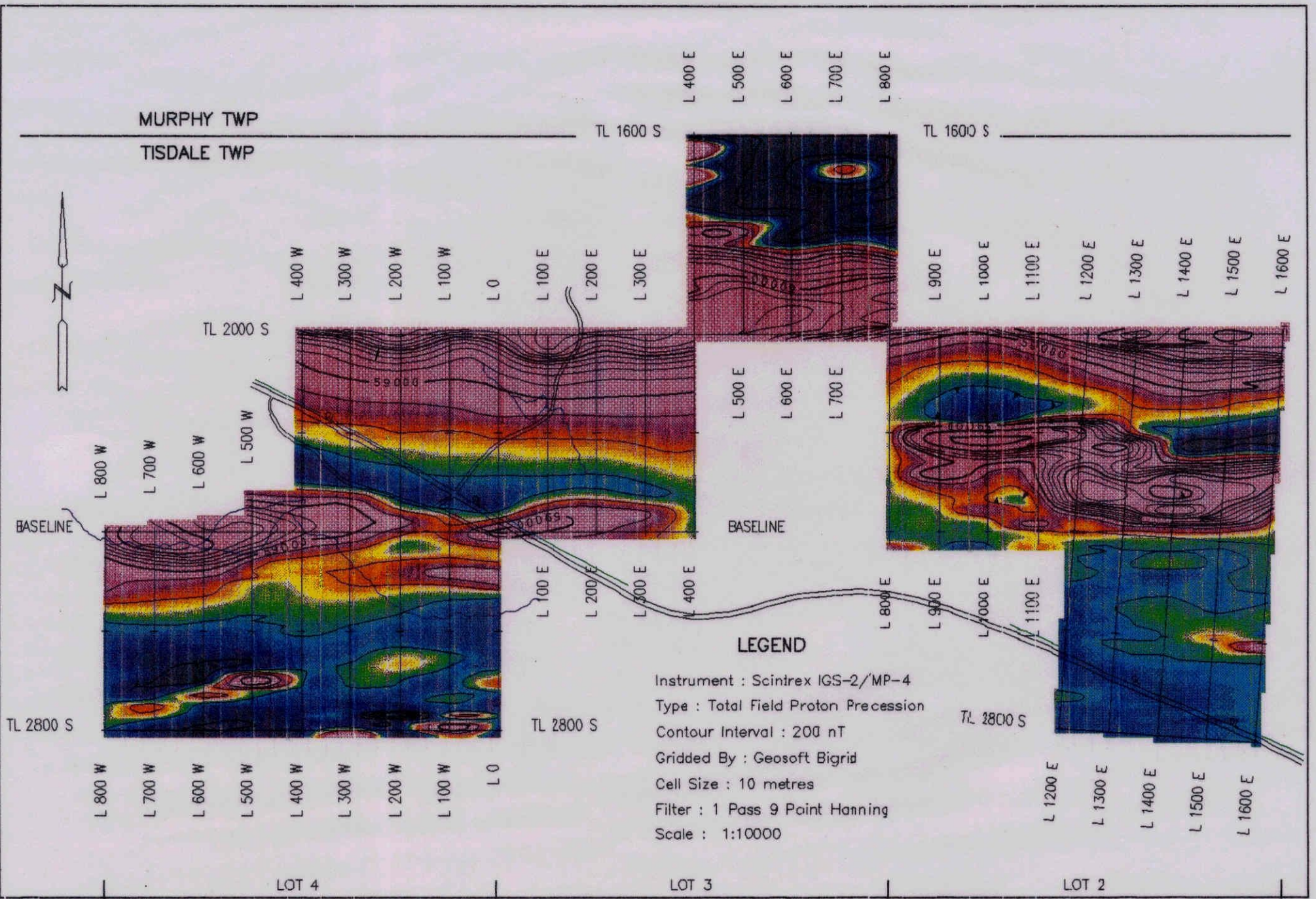


Figure 2 : Colour Image of Total Magnetic Field

SURVEY DESCRIPTION

The grid on the property consists of north-south survey lines spaced every 100 metres and east-west tie lines spaced every 400 metres. The grid was started on the Tisdale Murphy township line; station 1600 South, 800 East is located at a survey post between Lots 2 and 3, Tisdale Township.

The IP survey was conducted with the Scintrex IPR-11 time domain spectral receiver and the Scintrex TSQ-3, 3000 Watt transmitter. The current on-off time is two seconds. Integration takes place during ten time intervals or 'slices' after shut-off; Table 3 lists the delay and integration times for each slice. A pole-dipole array was used with an electrode spacing of 40 metres and

SLICE	DELAY TIME (ms)	INTEGRATION TIME (ms)
M0	30	30
M1	60	30
M2	90	30
M3	120	30
M4	150	180
M5	330	180
M6	510	180
M7	690	360
M8	1050	360
M9	1410	360

Table 3: Delay and integration times of the Scintrex IPR-11 IP receiver.

readings were taken for 'n' values of 1 to 4. The remote electrode was located to the north of the survey area at 200 South, 100 East.

Poor ground contacts were encountered over an esker, which is coincident with the roads on claim 1193767. No readings were taken in this area because it was difficult to get enough current into this very resistive layer.

IP RESULTS

The filtered IP chargeability for slice 'M7' and resistivity results are plotted with the 1994 results on plan maps 1 and 2, respectively; the shape and weight of the filter, which is an average of all four 'n' values, is given on the maps. The M7 chargeability, resistivity and metal factor for each line surveyed in 1996 are presented in pseudo-section form on maps 3 to 10. A colour image of all of the pseudo-sections is presented in Figures 3 and 4.

The high resistivity values along the southern edge of the property in the 1994 survey are also present along the south edge of Lines 100, 600 and 700 West in the present survey. This high resistivity coincides with an area of outcrop or very shallow overburden.

The chargeability anomaly, which strikes slightly north of east between 2560 South on Line 500 West and 2520 South on Line 300 West in the 1994 survey, was extended to 800 West. The anomaly decreases in amplitude to the west and appears to split into two separate anomalies to the west of Line 500 West. The anomaly is also present on Line 100 West, however, it doesn't have a very high amplitude on this line.

Low amplitude, poorly defined chargeability anomalies, centered at 2080 and 2300 South on Line 100 East are located on strike with similar anomalies on Line 0 from the 1994 survey; these

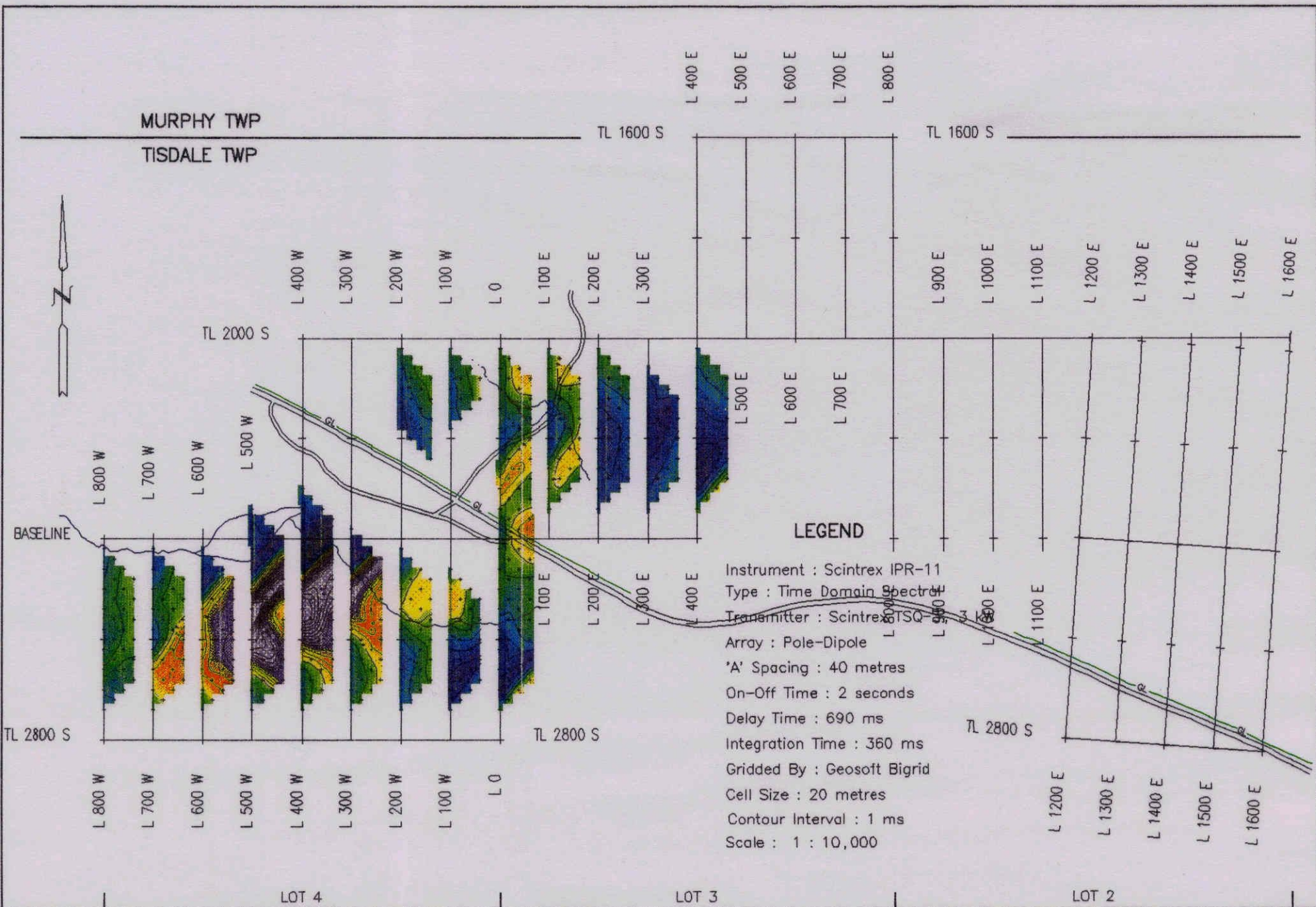


Figure 3 : Pseudo-sections of M7 Chargeability

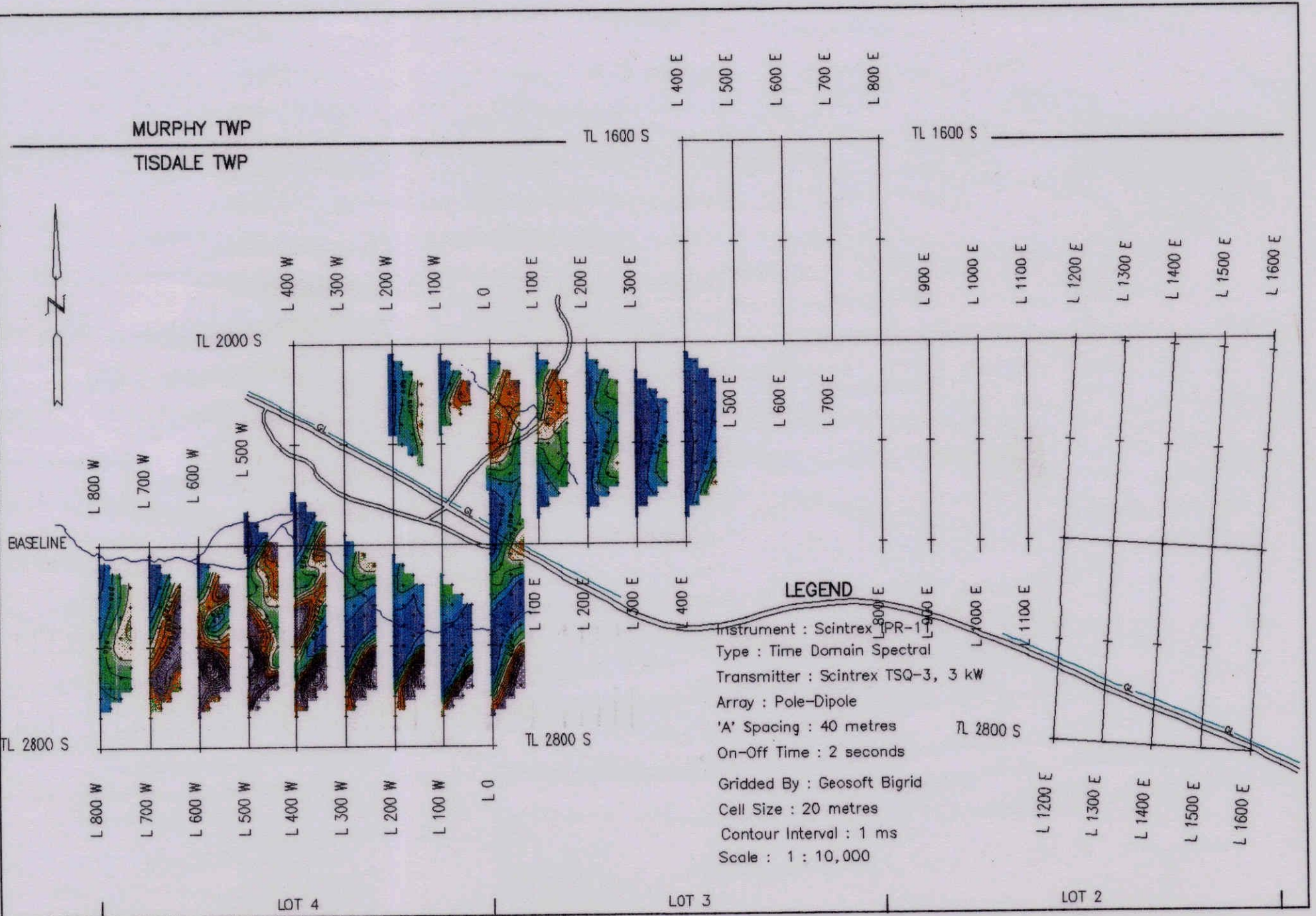
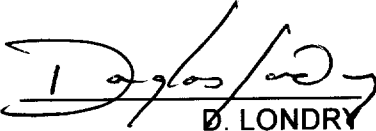


Figure 4 : Pseudo-sections of IP Resistivity

anomalies do not appear to continue to the east of Line 100 East.

There is a slight rise in the chargeability at the north end of Line 400 East. The IP survey should be continued to the north over claim 11826757 in order to better define this anomaly.

June 10, 1987
DATE


D. LONDRY

REFERENCES**BURROWS, A.G.**

1915: The Porcupine Gold Area, Ontario Bureau of Mines, Vol 24, Part 3, p. 1-57.
Accompanied by Map 21a, scale 1 inch to 2000 feet.

1924: The Porcupine Gold Area, Fourth Report; Ontario Department of Mines, Vol 33, Part 2,
112p. Accompanied by Map 33a, scale 1 inch to 2000 feet.

HURST, M.E.

1939: Porcupine Area; Ontario Department of Mines, Map 47a, scale 1 inch to 2000 feet.

FERGUSON, S.A. et al.

1968: Geology and Ore Deposits of Tisdale Township; Ontario Department of Mines,
Geological Report 58, 117p. Accompanied by Map 2075, scale 1 inch to 1000 feet.

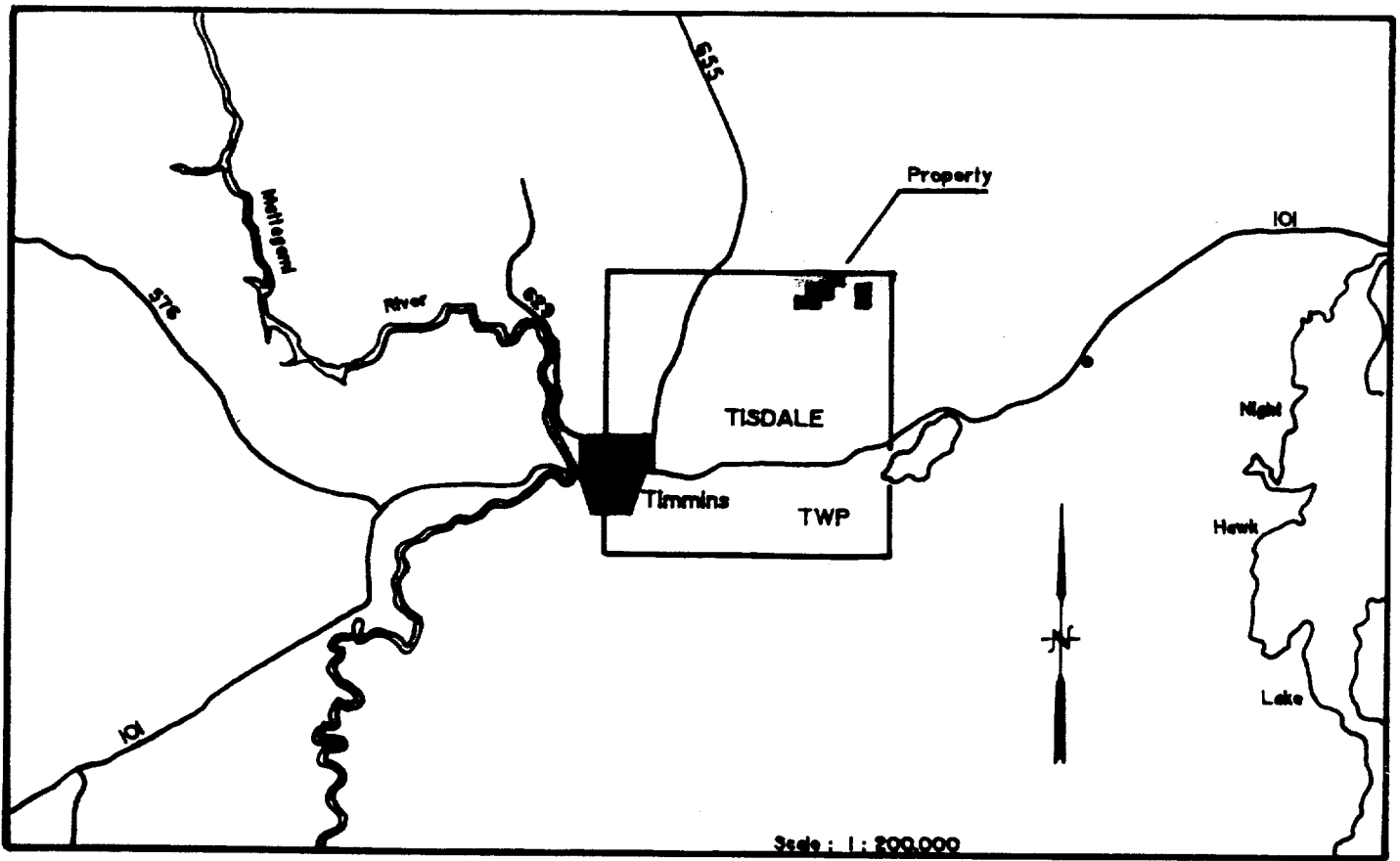


Figure 1 (a): Location Map

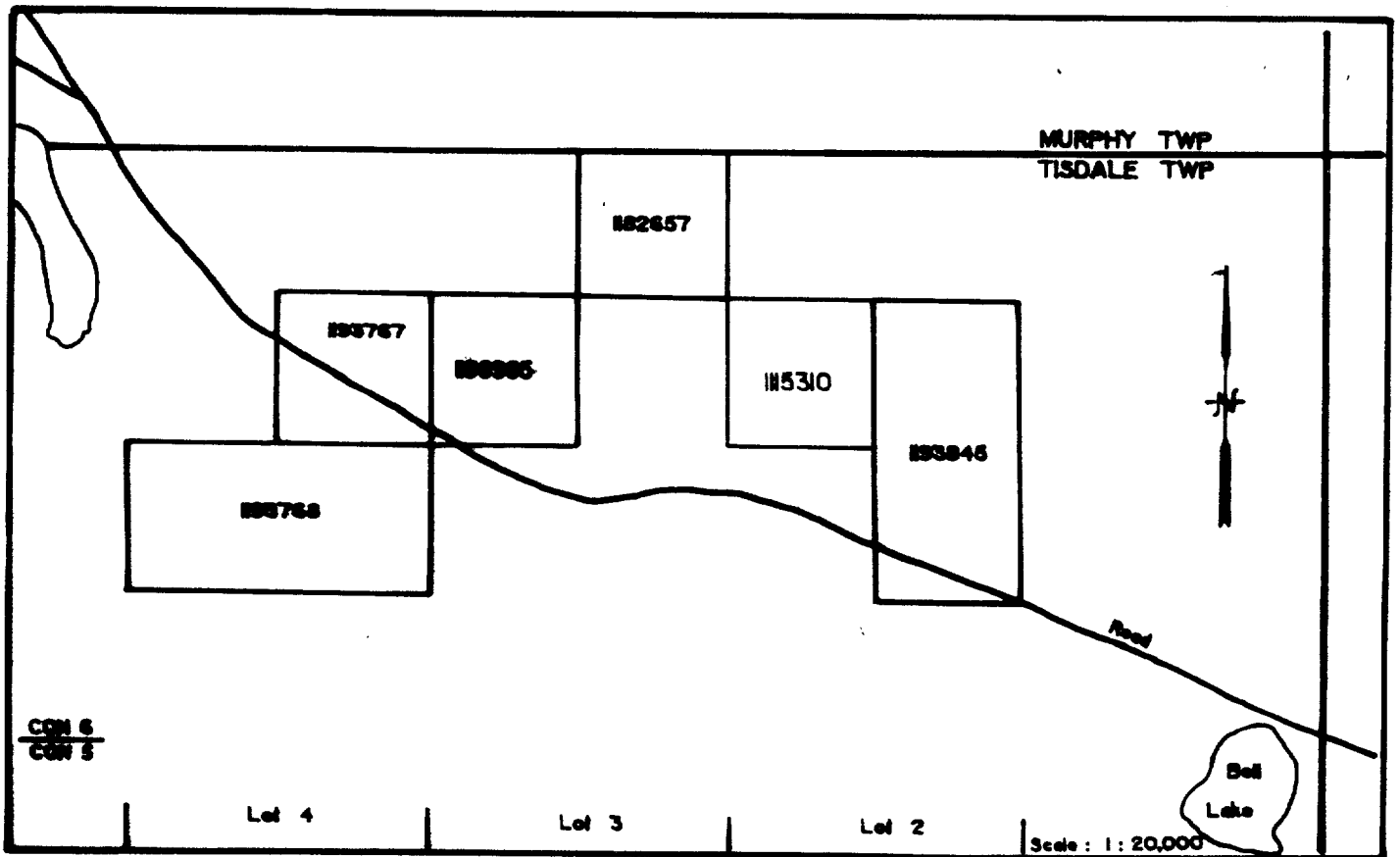


Figure 1 (b): Claim Map

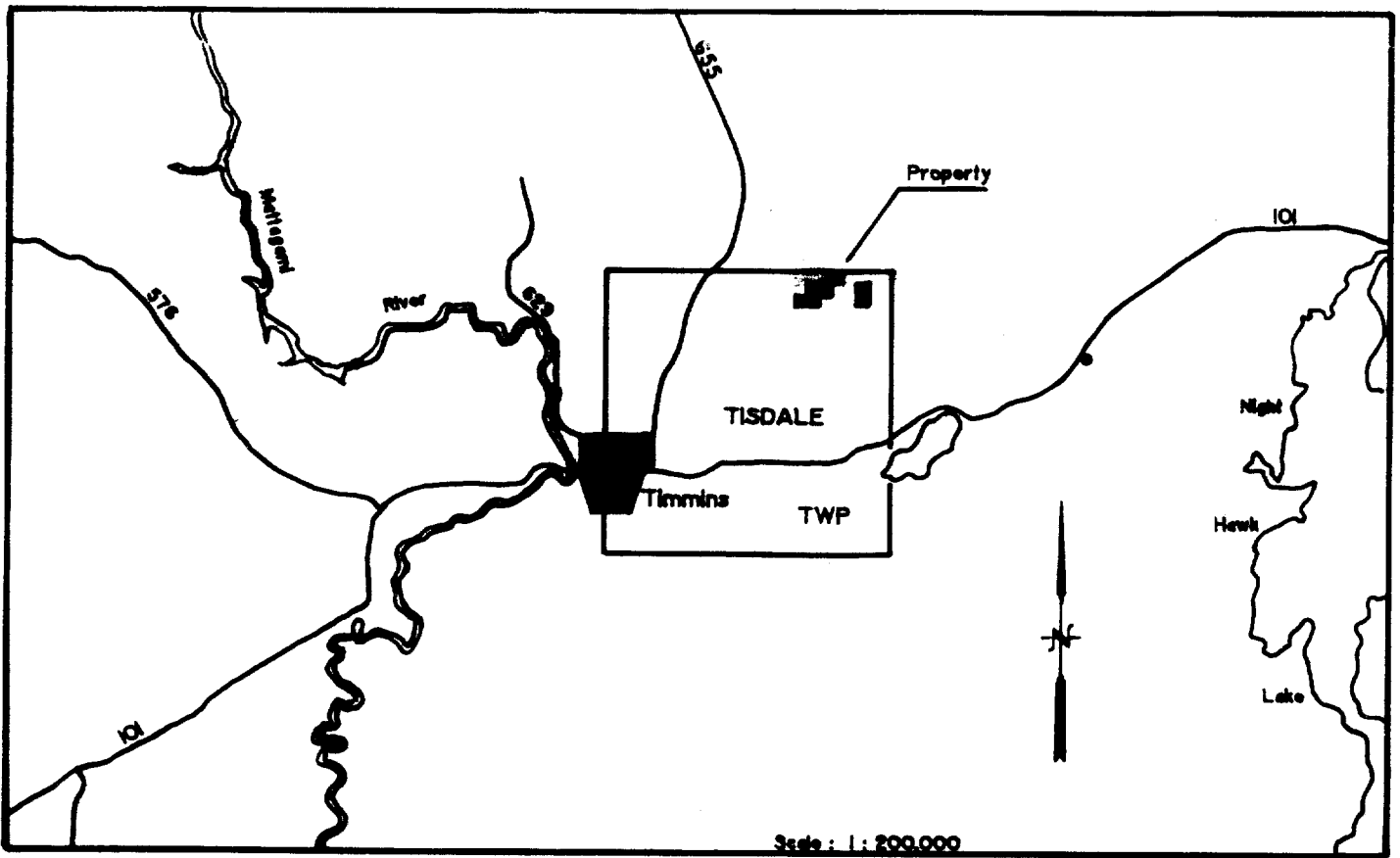


Figure 1(a): Location Map

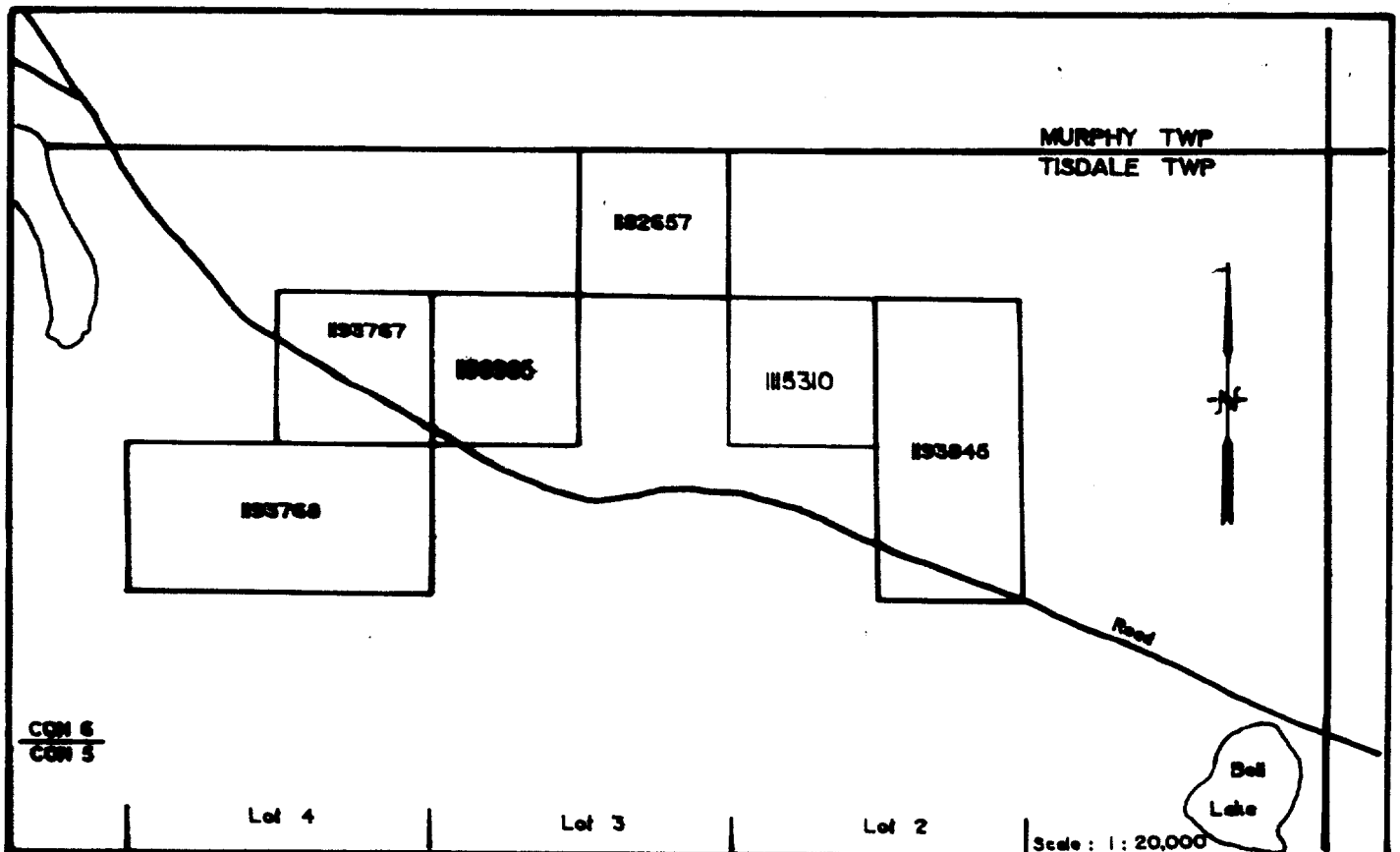


Figure 1(b): Claim Map

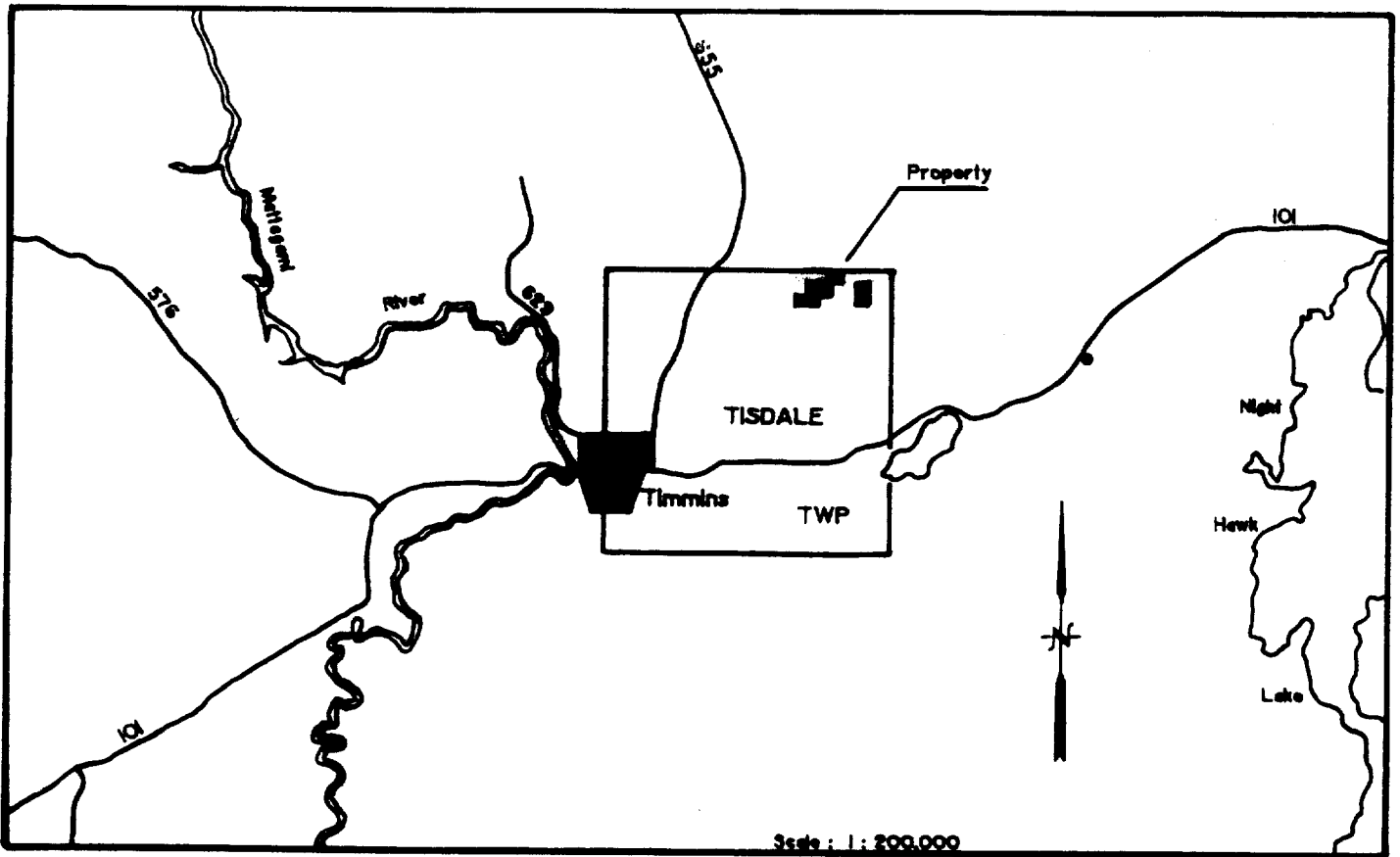


Figure 1 (a): Location Map

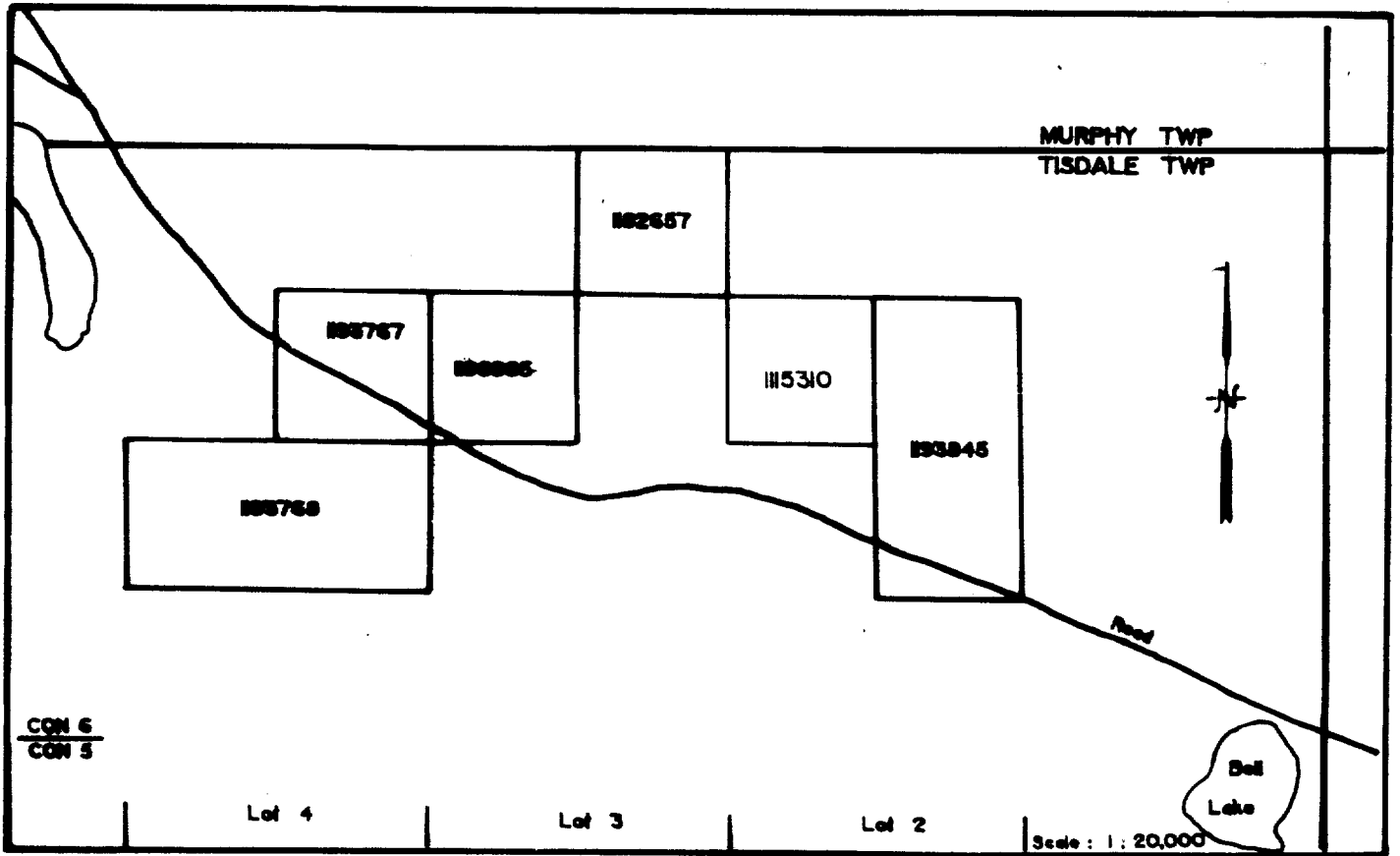


Figure 1 (b): Claim Map



Ministry of
Northern Development
and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) <i>W9760-00572</i>
Assessment Files Research Imaging

Personal Information
Mining Act, the inform
Questions about this
933 Ramsey Lake Rd



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d 66(3) of the Mining Act. Under section 8 of the
work and correspond with the mining land holder.
Northern Development and Mines, 6th Floor,

900

Y

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2. 17817

1. Recorded holder(s) (Attach a list if necessary)

Name A) MR. ALBERT RISTIMAKI	Client Number
Address 69 HAROLD AVE., P.O. Box 1060	Telephone Number (705) 235-2211
SOUTH PORCUPINE, ONTARIO, PONIHO	Fax Number (705) 235-3004
Name B) DR. D. PYKE	Client Number
Address 31 DELAIR CRES., THORNHILL, ONT. L3T 2M3	Telephone Number (905) 731-1913
	Fax Number
Name C) MR. DOUGLAS LONDREY	Client Number
Address 547 LOACH'S RD., SUDBURY, ONT. P3E 2R3	Telephone Number (705) 523-5479
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

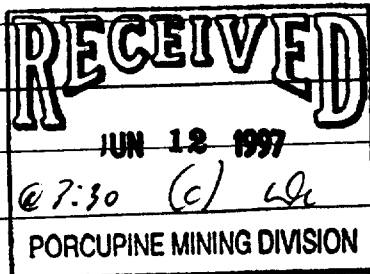
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type INDUCED POLARISATION SURVEY	Office Use
	Commodity
	Total \$ Value of Work Claimed
Dates Work Performed From 20 Day 11 Month 96 Year To 31 Day 01 Month 97 Year	NTS Reference
Global Positioning System Data (if available)	Mining Division
Township/Area TISDALE	Resident Geologist District
M or G-Plan Number	

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name DOUGLAS LONDREY	Telephone Number (705) 523-5479
Address 547 LOACH'S ROAD, SUDBURY, ONT., P3E 2R3	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

I, DOUGLAS LONDREY (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Douglas Londrey</i>	Date JUNE 12, 1997
Agent's Address 547 LOACH'S ROAD, SUDBURY, ONT. P3E 2R3	Telephone Number (705) 523-5479
	Fax Number

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

eg	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	\$24,000	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
1	1193767	1	900.	400.	500.	0.
2	1193768	2	3000.	800.	2200.	0.
3	1198985	1	3400.	2000.	1400.	0.
4	1115310	1	0.	800.	0.	0.
5	1182657	1	0.	900.	0.	0.
6	1193845	2	0.	2400.	0.	0.
7						
8						
9						
10						
11						
12						
13						
14						
15						
Column Totals			7300.00	7300.00	4100.00	0.

2.17817

I, DOUGLAS LONDREY, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Douglas Londrey
 Date: JUNE 12, 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only Received Stamp	Deemed Approved Date <u>Sept. 10 / 97</u>	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record.

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Includes entries for I.P. SURVEY, REPORT, RE-ESTABLISHING GRID OVER SWAMP ON CLAIM 1198985, and a total value of assessment work of \$7300.00.

RECEIVED JUN 12 1997 @ 3:30 (C) CC PORCUPINE MINING DIVISION

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, DOUGLAS LONDRY (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as AGENT (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: Douglas Londry Date: JUNE 12, 1997

Ministry of
Northern Development
and Mines
November 18, 1997

Ministère du
Développement du Nord
et des Mines

ALBERT JOHANNES RISTIMAKI
69 HAROLD AVENUE
PO BOX 1060
SOUTH PORCUPINE, Ontario
P0N-1H0

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17817

Status

Subject: Transaction Number(s): W9760.00572 **Deemed Approval**

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jerome_l@torv05.ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.17817

Date Correspondence Sent: November 18, 1997

Assessor: Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00572	1193767	TISDALE	Deemed Approval	September 10, 1997

Section:

14 Geophysical IP

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Douglas Londry
SUDBURY, ONTARIO, CANADA

ALBERT JOHANNES RISTIMAKI
SOUTH PORCUPINE, Ontario

DALE RANDOLPH PYKE
THORNHILL, ON

MURPHY TWP.

2.17817
IP

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary (International)	Railroad
Boundary (Interprovincial)	Single Track
Boundary (District, Township, Indian Reserve)	Double Track
Approximate	Right-of-Way
Lot, Concession, Approximate	Highway, County, Township
Park Boundary	Access (road of doubtful maintenance or significance)
Bridge	Trail, Bush Road (average slope)
Road, Railroad	Rapids
Building	Double line river with multiple rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Reservoir
Contours	River, Stream, Canal
Intersected	Approximate
Approximate	Approximate
Depression	Direction of flow
Control Points (Horizontal)	Rock
Control Points (Vertical)	Spot Elevation (above sea level)
Culvert	Tower
Falls	Transmission Line
Double line river	Poles
Fence, Hedge, Wall	Tunnel
Feature Outline (Construction features, etc.)	Utility Poles
Flooded Land	Wharf, Dock, Pier
Lock	Wooded Area
Marsh or Swamp	
Moat	
Mine Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
(R2) - THE SURFACE AND MINING RIGHTS ARE WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 30 OF THE MINING ACT R.S.O. 1990, DATED MAY 29, 1996 AT 4:25 P.M.				
(U) - MINING RIGHTS ONLY WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 30 OF THE MINING ACT R.S.O. 1990, DATED 92-MAY-27 AT 10:20 A.M.				

(R2) - THE SURFACE AND MINING RIGHTS ARE WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 30 OF THE MINING ACT R.S.O. 1990, DATED MAY 29, 1996 AT 4:25 P.M.

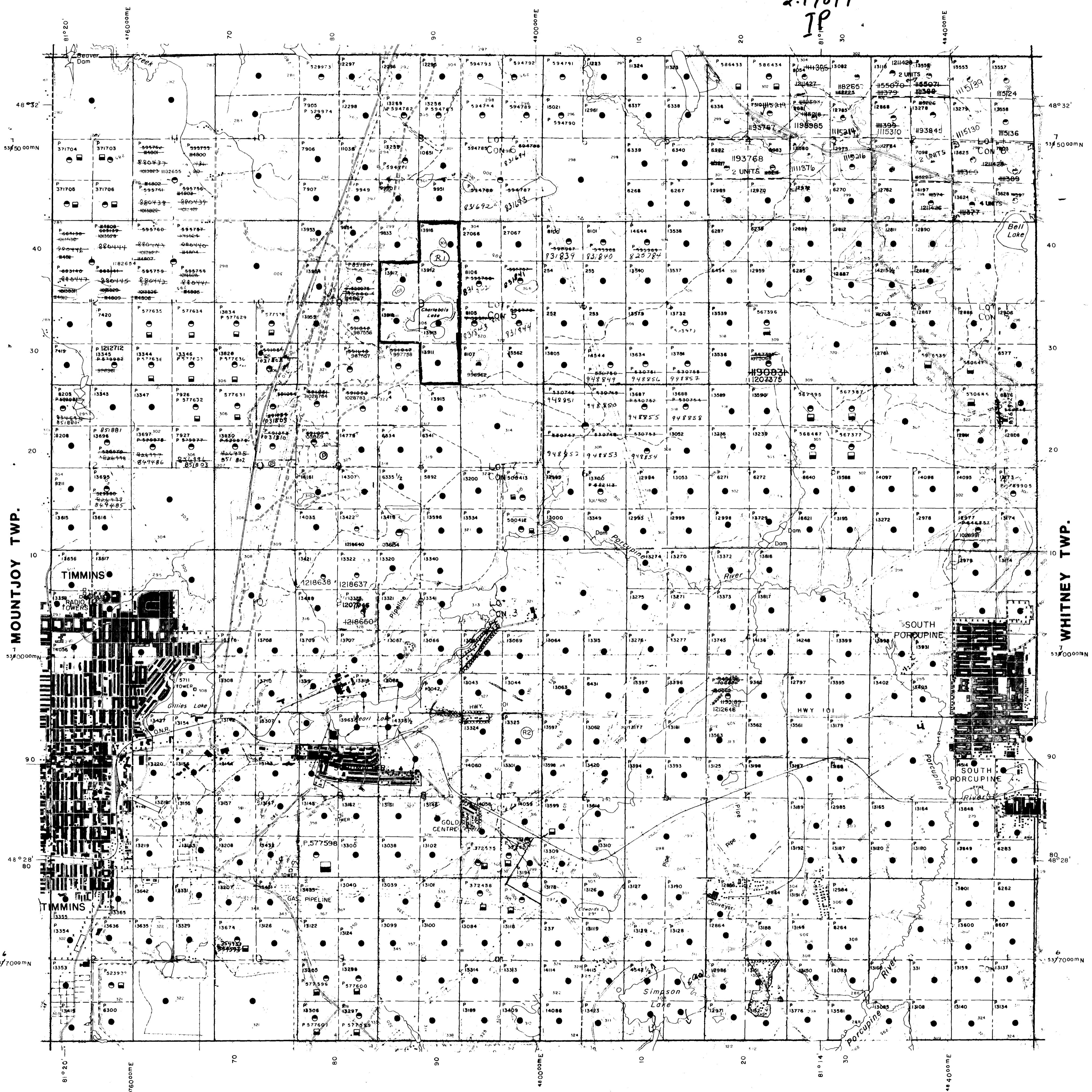
(U) - MINING RIGHTS ONLY WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 30 OF THE MINING ACT R.S.O. 1990, DATED 92-MAY-27 AT 10:20 A.M.

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.

MOUNTJOY TWP.

WHITNEY TWP.

DELORO TWP.



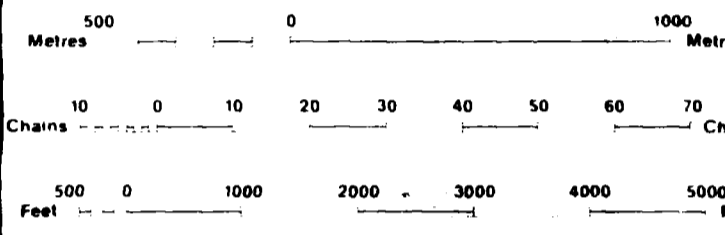
LEGEND

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

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



SCALE 1:20 000
GRID ZONE 17

NOTES

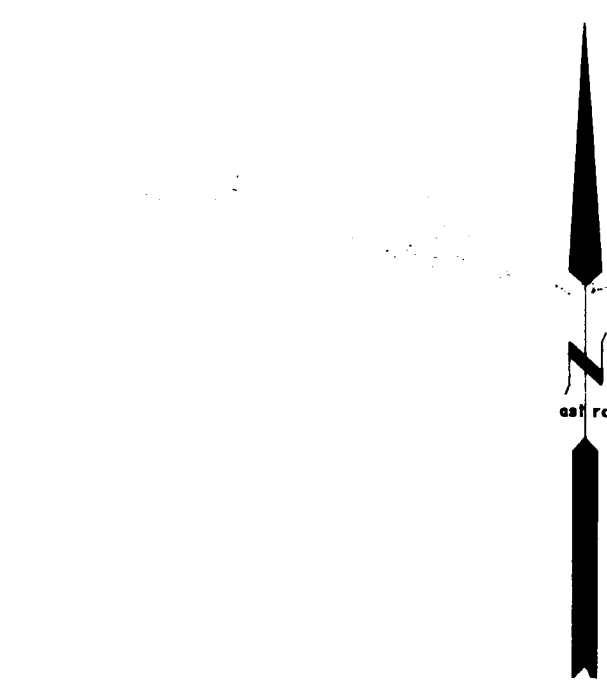
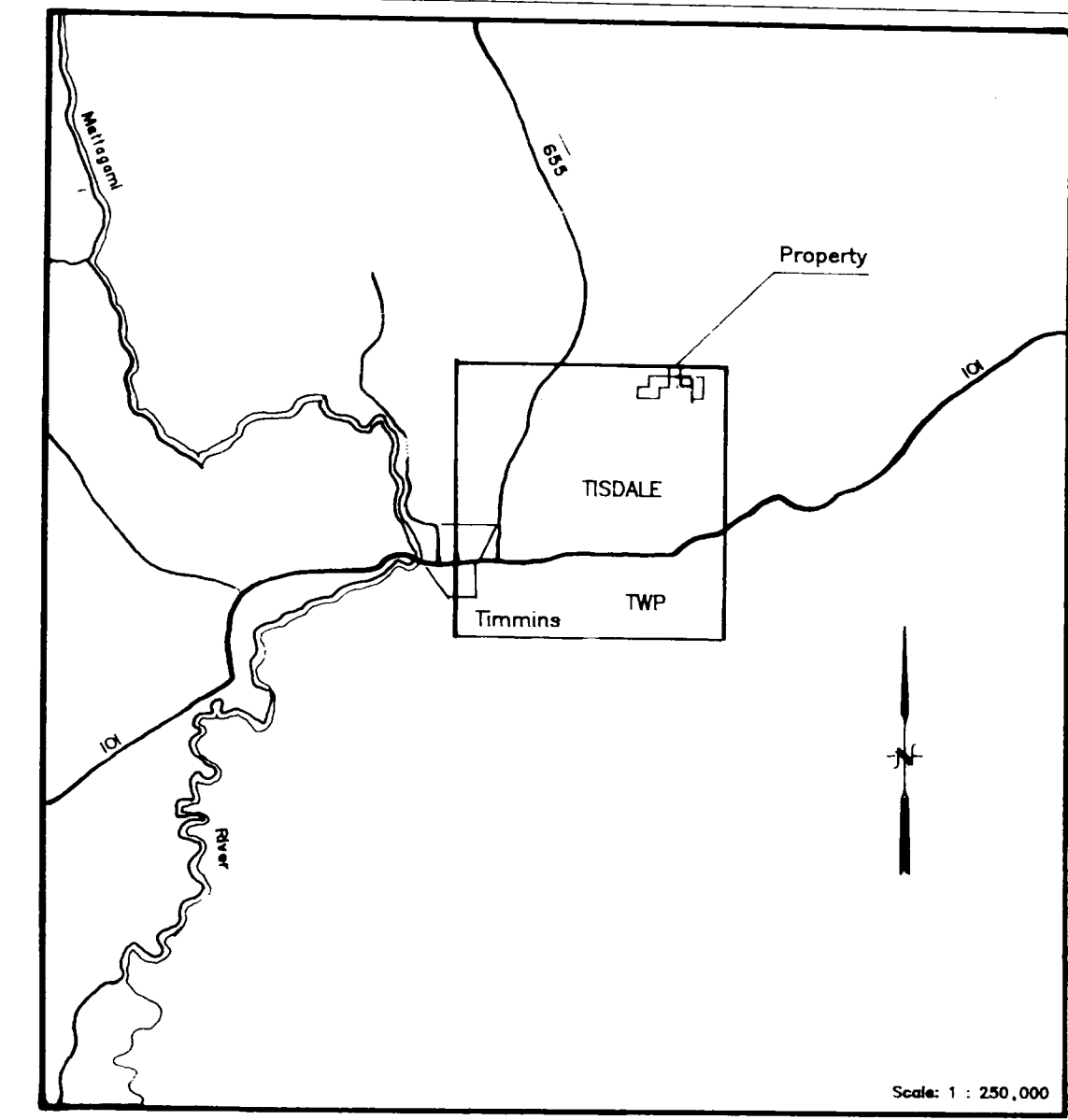
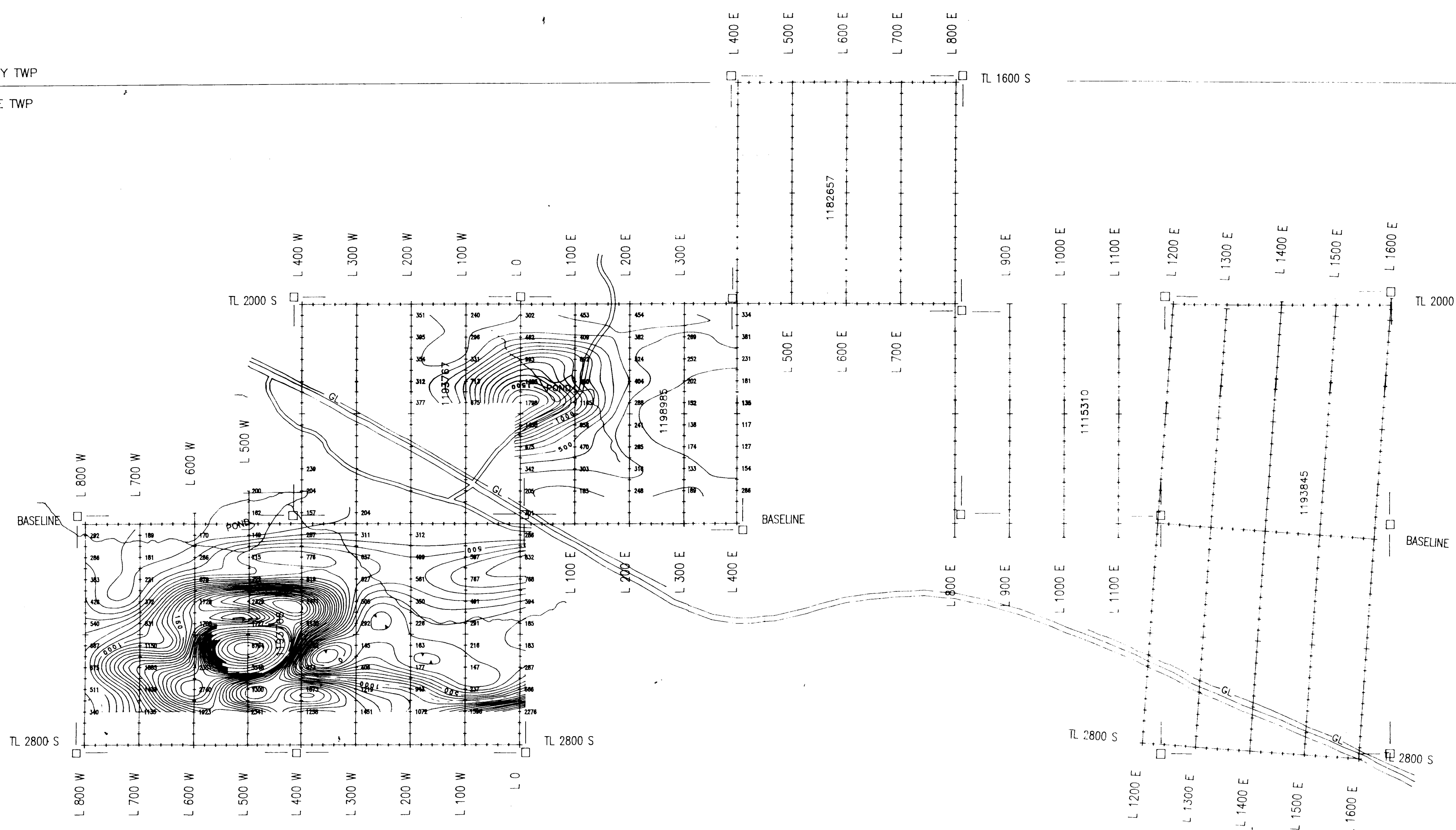
REGISTERED PLAN OF SUBDIVISION
12 2.17817

TOWNSHIP
TISDALE
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
Land Management Branch

ORIGINAL COMPILATION JULY 1984
REVISED
Number
G-3976

MURPHY TWP
TISDALE TWP

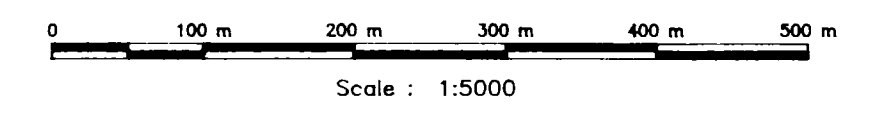
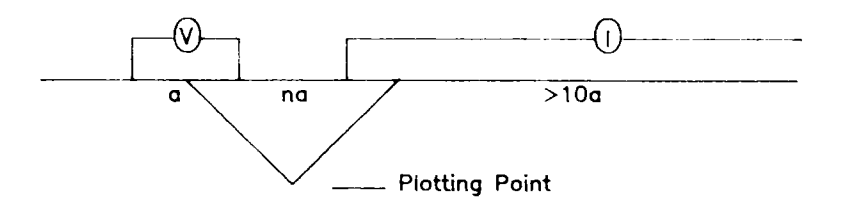


2-17017

LEGEND

Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 40 metres
On-Off Time : 2 Seconds

Gridded by : Geosoft Bigrid
Cell Size : 20 metres
Contour Interval : 100 ohm-m



1/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16
Filter

Lot 4

Lot 3

Lot 2

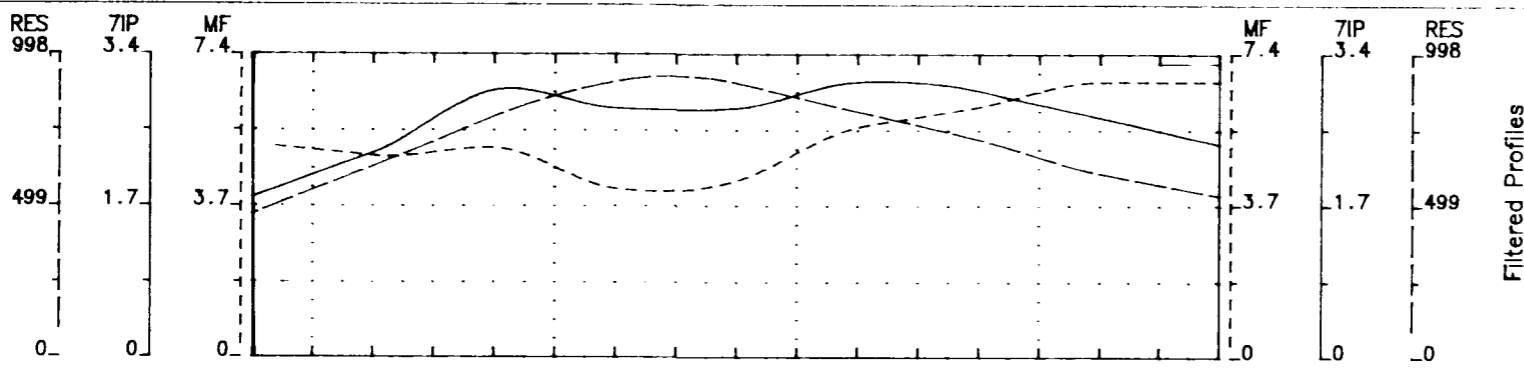
NORTHEAST TISDALE PROJECT

IP RESISTIVITY
(Filtered)

TISDALE TOWNSHIP

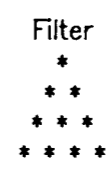
FILE : TIS.IP DATE : January, 1997

WORK BY : D. Londry *D. Londry*

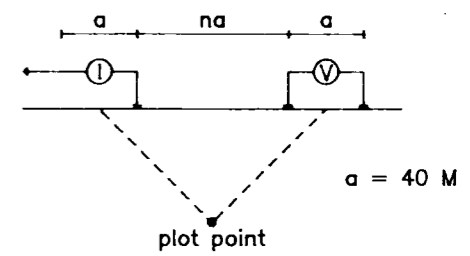


2.17817

Line 800 W



Pole-Dipole Array



Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms

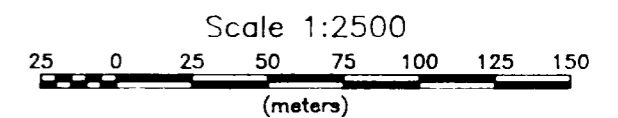
CONTOUR INTERVALS

Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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

INTERPRETATION

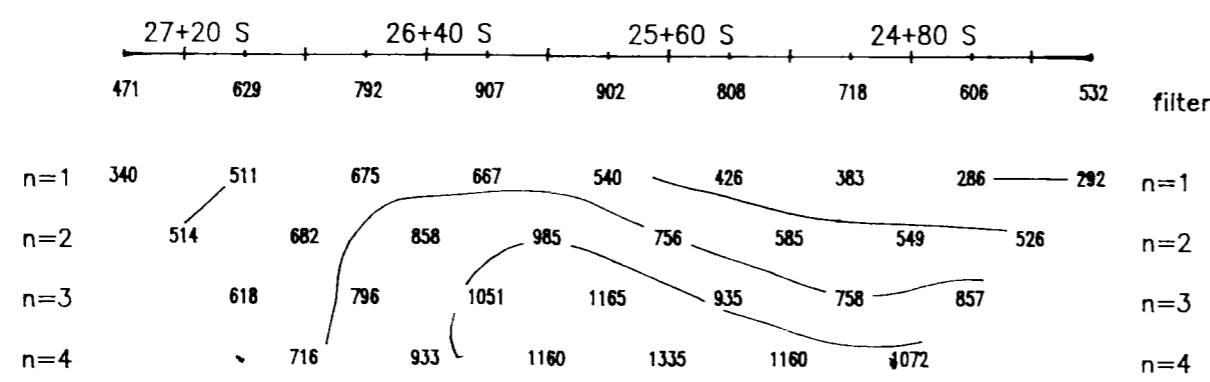
- Strong increase in polarization accompanied by marked decrease in resistivity.
- ◻ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.



NORTHEAST TISDALE PROJECT
 INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

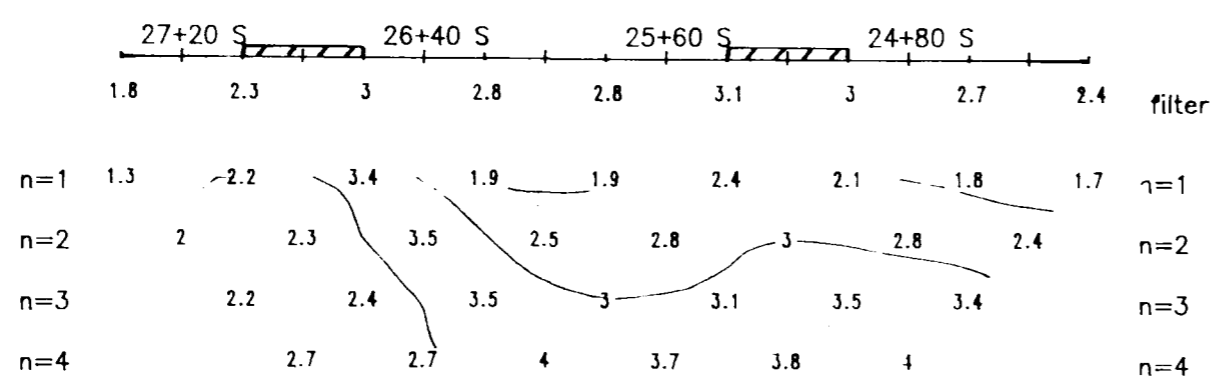
Date: 12/96
 Interpretation: D. Londry
 D. Londry

RESISTIVITY
(ohm-m)



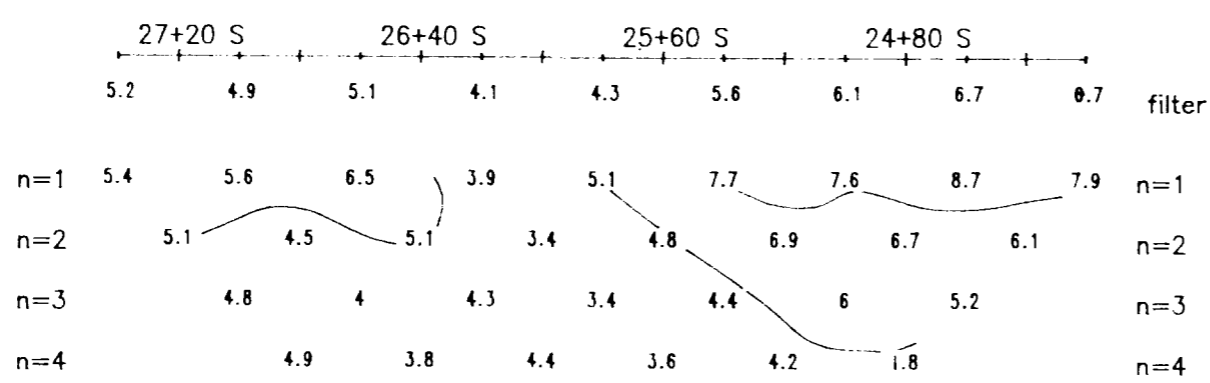
RESISTIVITY
(ohm-m)

CHARGEABILITY
(ms)



CHARGEABILITY
(ms)

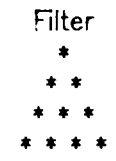
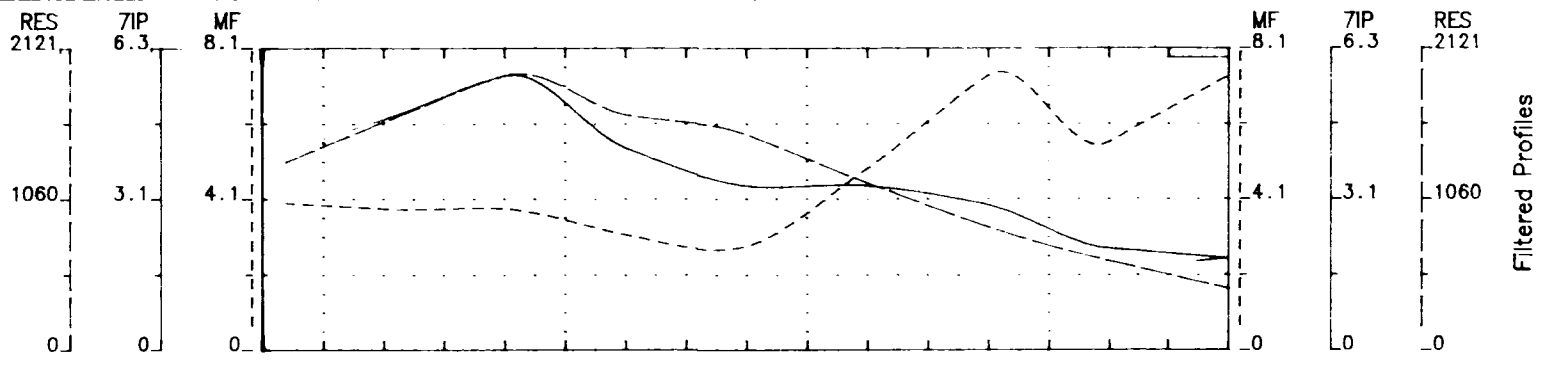
METAL FACTOR
(ip/res * 100)



METAL FACTOR
(ip/res * 100)

230





Line 700 W

Pole-Dipole Array

a = 40 M

Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms

CONTOUR INTERVALS

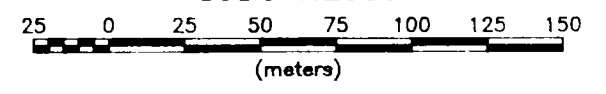
Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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

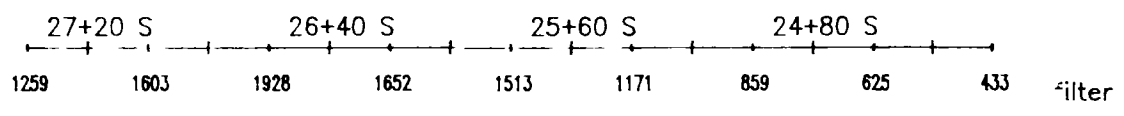
INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- ☐ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

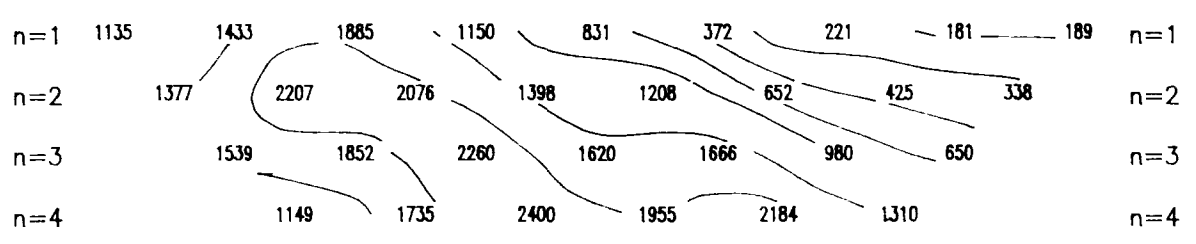
Scale 1:2500



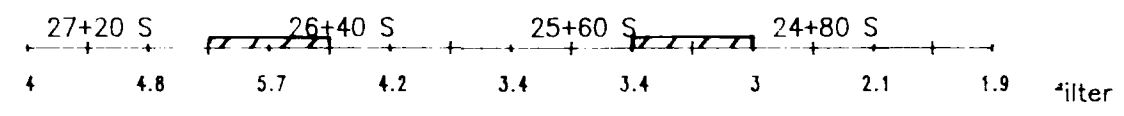
240



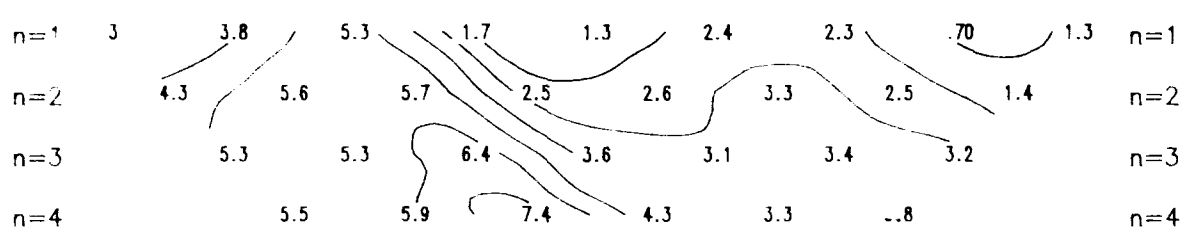
RESISTIVITY (ohm-m)



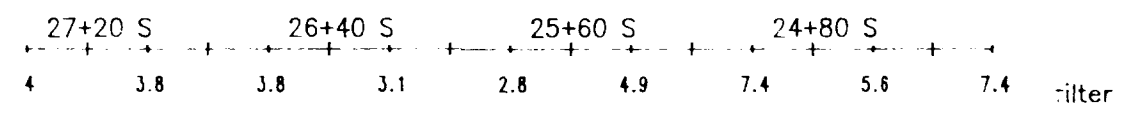
RESISTIVITY (ohm-m)



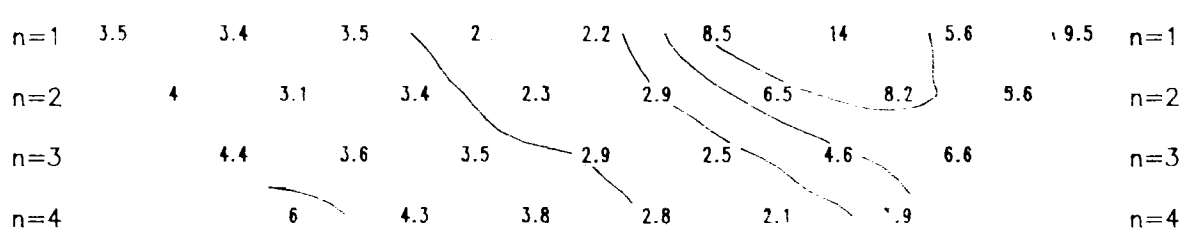
CHARGEABILITY (ms)



CHARGEABILITY (ms)



METAL FACTOR (ip/res * 100)



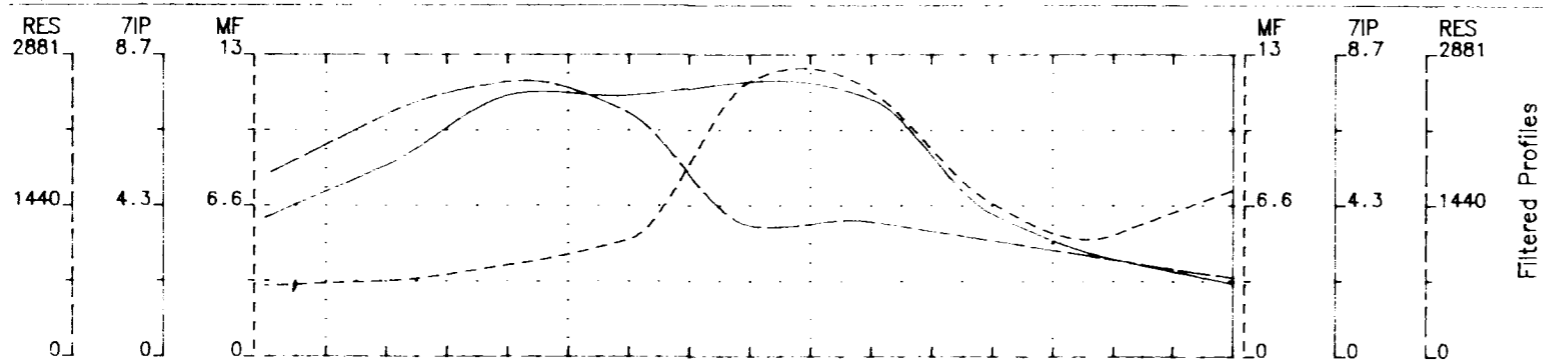
METAL FACTOR (ip/res * 100)

NORTHEAST TISDALE PROJECT

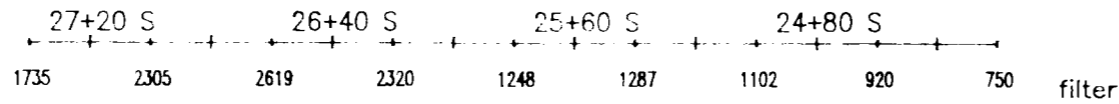
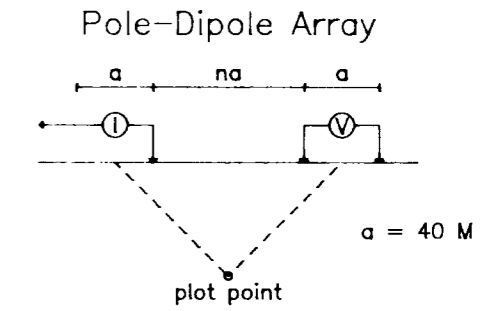
INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

Date: 12/96
 Interpretation: D. Londry

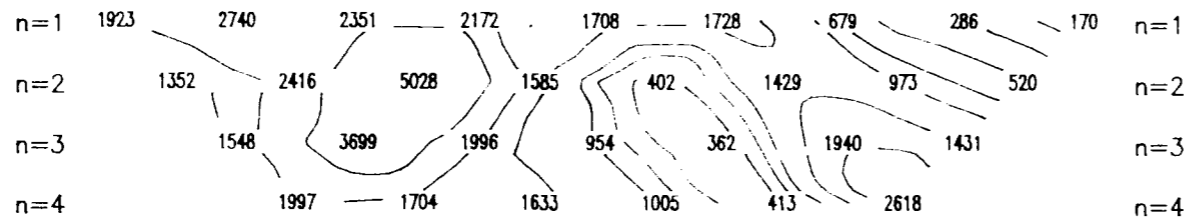
D. Londry



Line 600 W



RESISTIVITY
(ohm-m)



RESISTIVITY
(ohm-m)

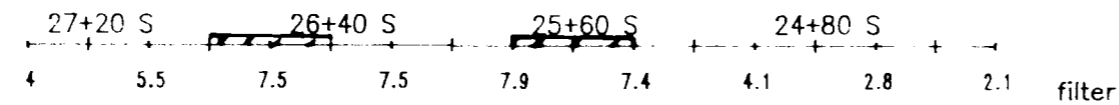
250

Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms

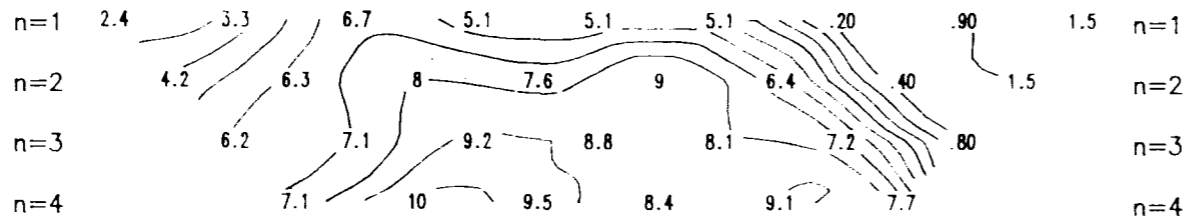
CONTOUR INTERVALS

Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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



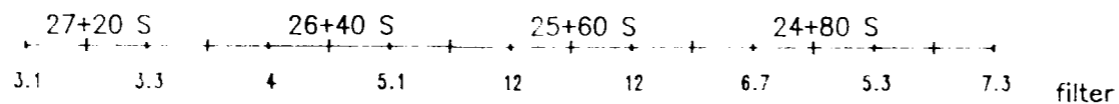
CHARGEABILITY
(ms)



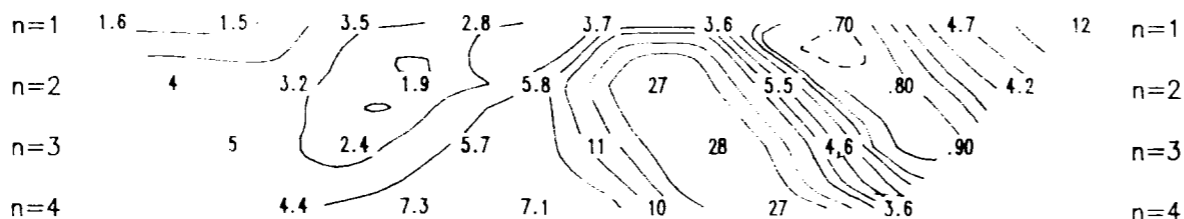
CHARGEABILITY
(ms)

INTERPRETATION

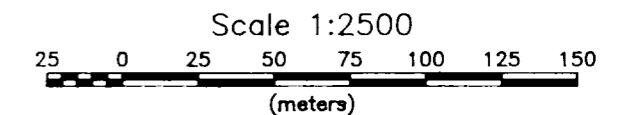
- Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- ☐ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.



METAL FACTOR
(ip/res * 100)



METAL FACTOR
(ip/res * 100)

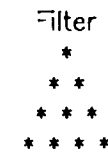


NORTHEAST TISDALE PROJECT
 INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

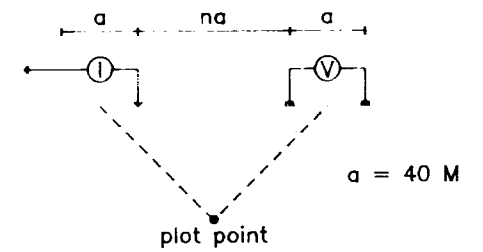
Date: 12/96
 Interpretation: D. Londry

D. Londry

Line 100 E



Pole-Dipole Array



2.17817

270

Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms

CONTOUR INTERVALS

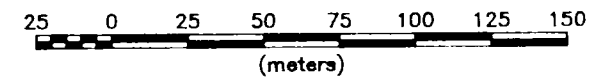
Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- ▣ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

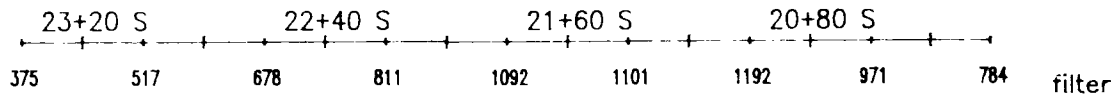
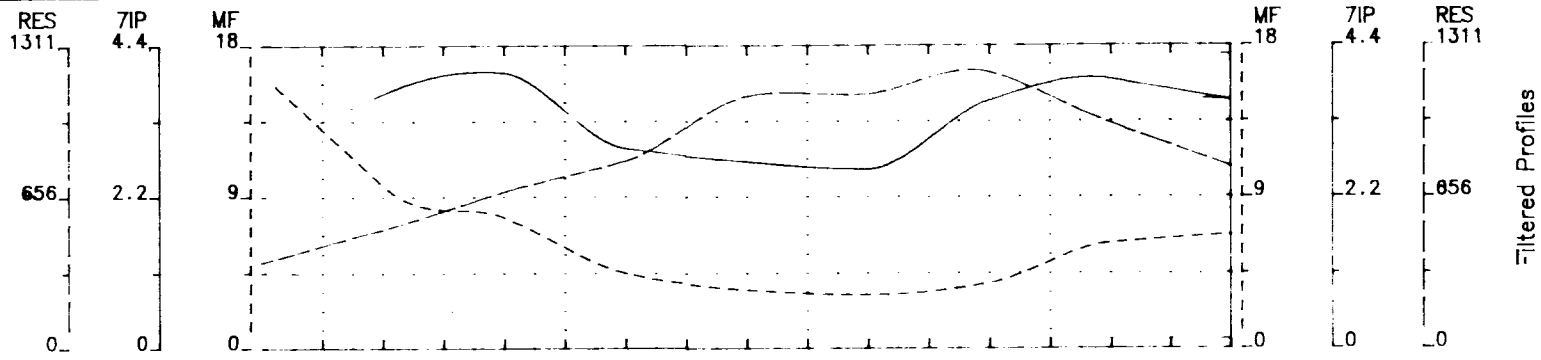
Scale 1:2500



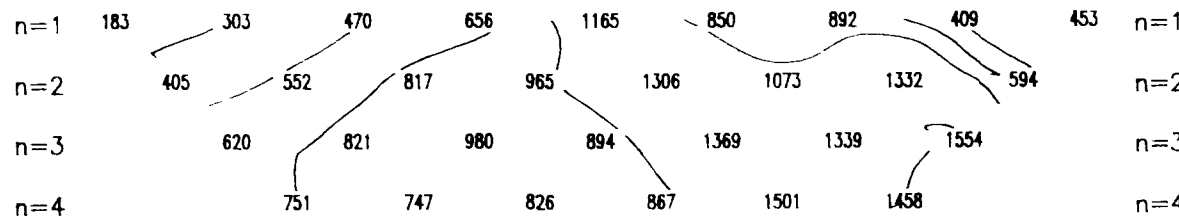
NORTHEAST TISDALE PROJECT
 INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

Date: 12/96
 Interpretation: D. Londry

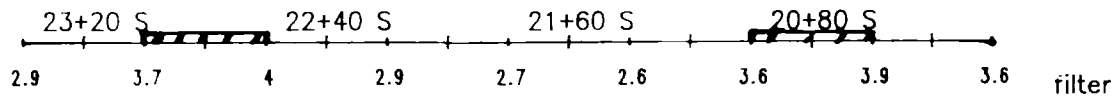
D. Londry



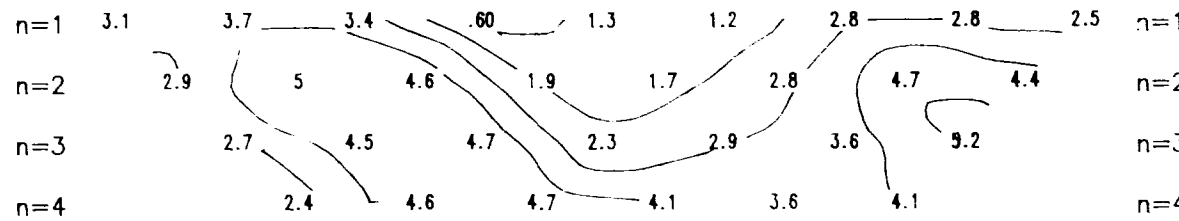
RESISTIVITY
(ohm-m)



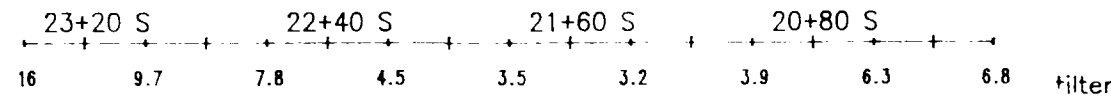
RESISTIVITY
(ohm-m)



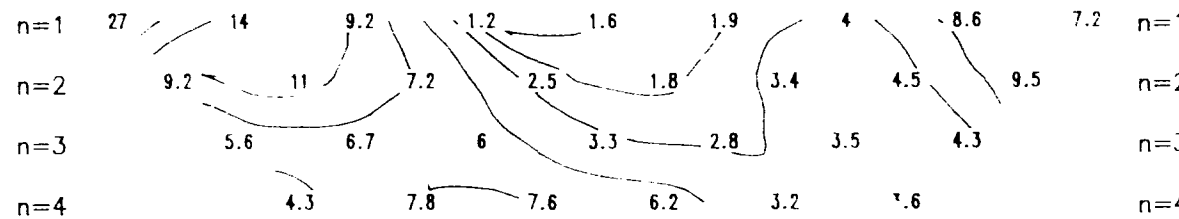
CHARGEABILITY
(ms)



CHARGEABILITY
(ms)



METAL FACTOR
(ip/res * 100)

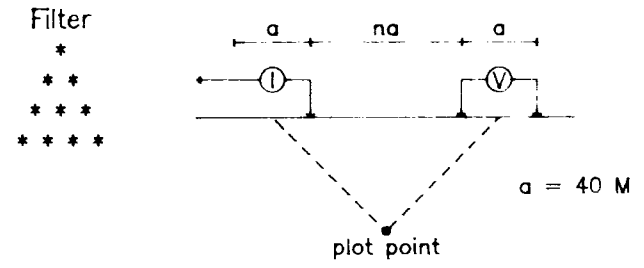


METAL FACTOR
(ip/res * 100)



Line 200 E

Pole-Dipole Array



280

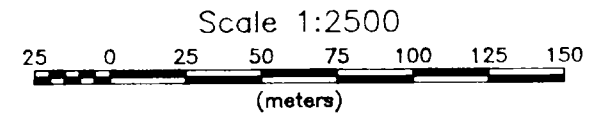
Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms

ONTOUR INTERVALS
 Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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

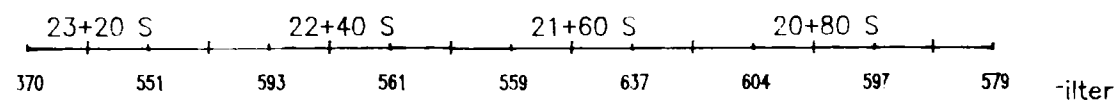
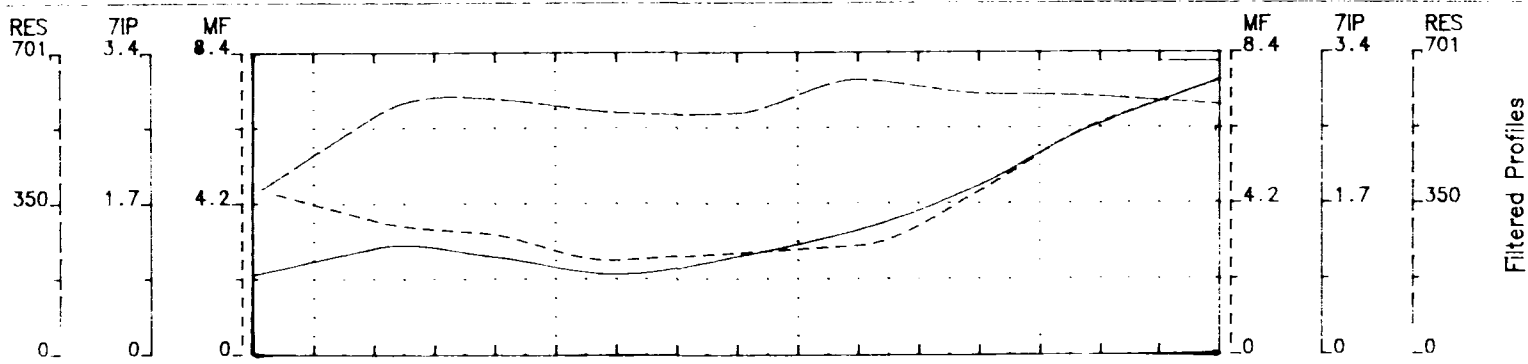
INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

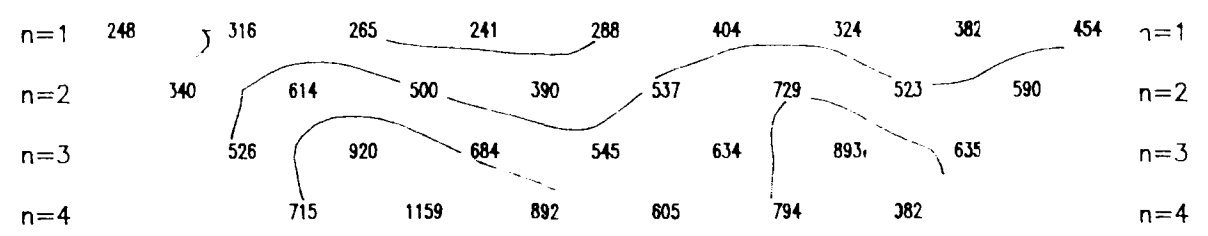


NORTHEAST TISDALE PROJECT
 INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

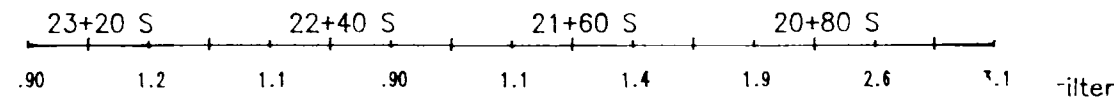
Date: 12/96
 Interpretation: D. Londry
 D. Londry



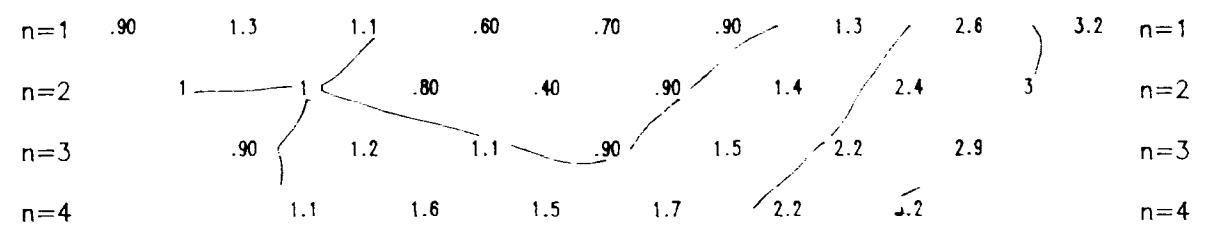
RESISTIVITY
(ohm-m)



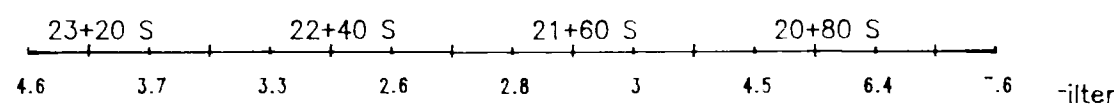
RESISTIVITY
(ohm-m)



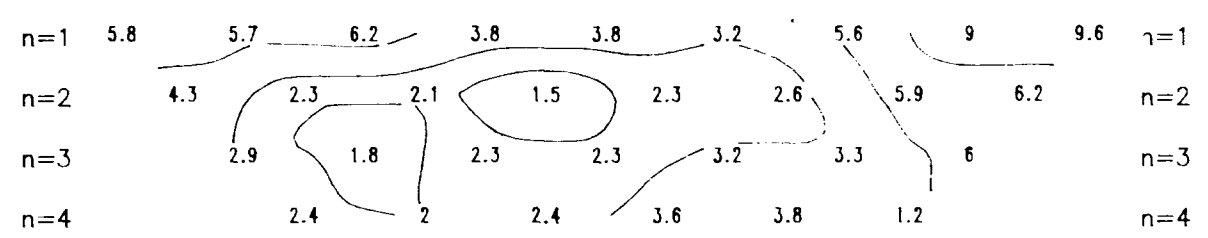
CHARGEABILITY
(ms)



CHARGEABILITY
(ms)

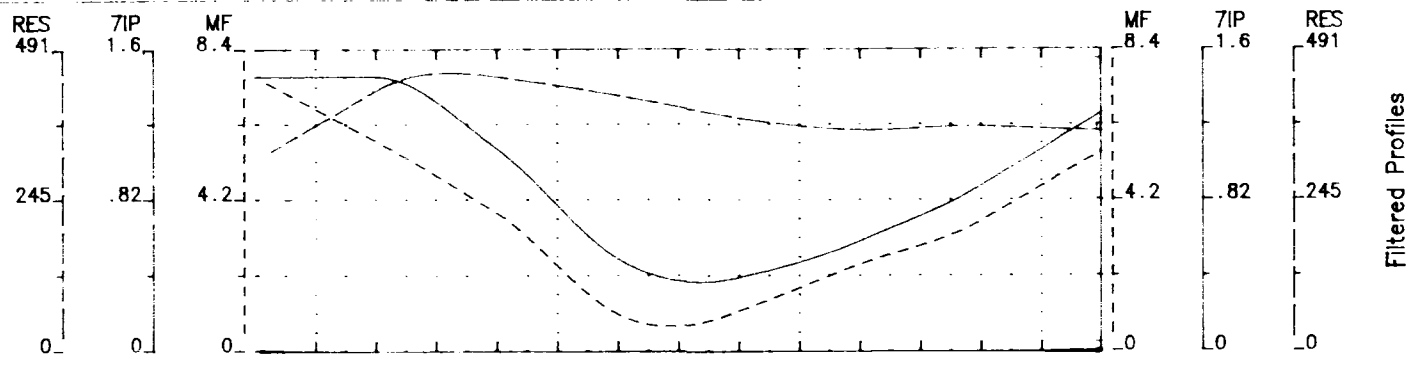


METAL FACTOR
(ip/res * 100)

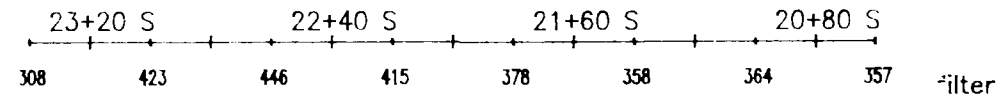
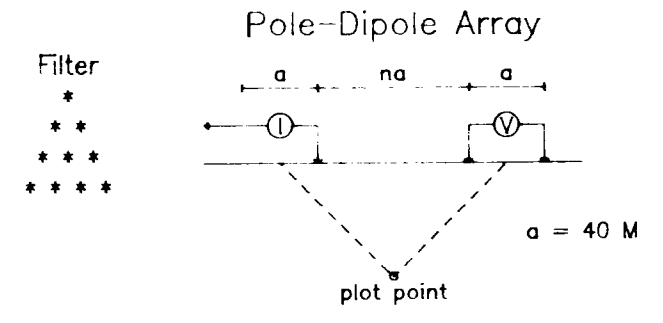


METAL FACTOR
(ip/res * 100)

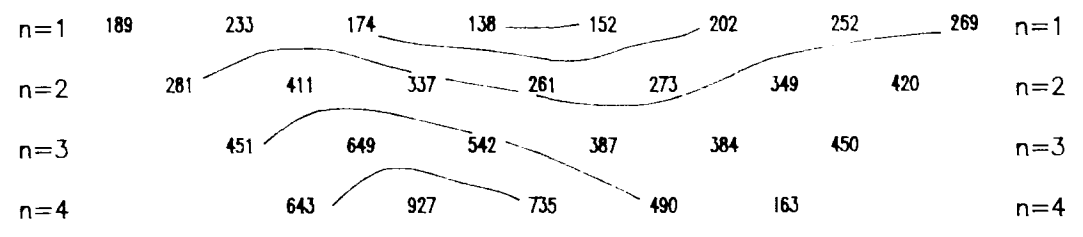




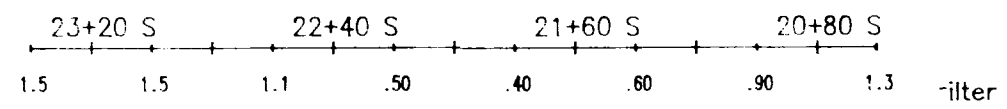
Line 300 E



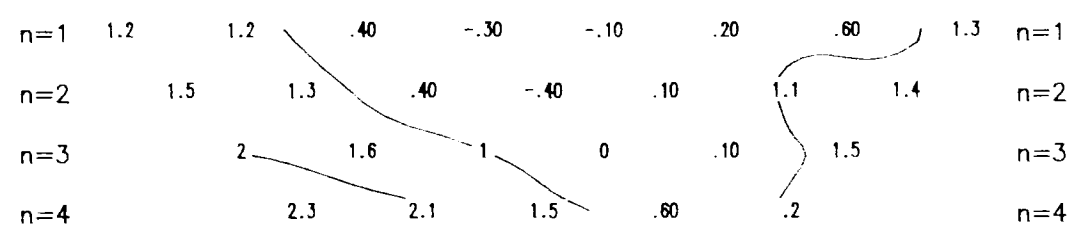
RESISTIVITY
(ohm-m)



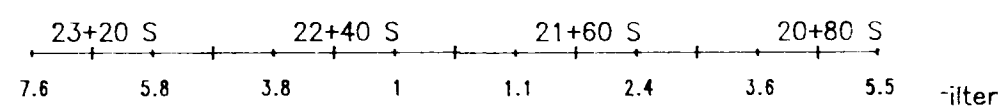
RESISTIVITY
(ohm-m)



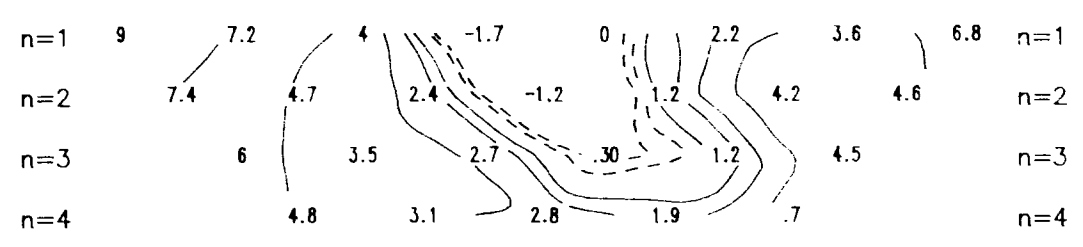
CHARGEABILITY
(ms)



CHARGEABILITY
(ms)



METAL FACTOR
(ip/res * 100)



METAL FACTOR
(ip/res * 100)

290

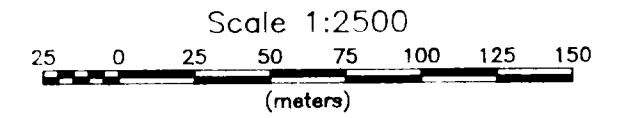


Receiver: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

ONTOUR INTERVALS
Resistivity: log
Chargeability: 1 ms
Metal Factor: log
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- ☐ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.



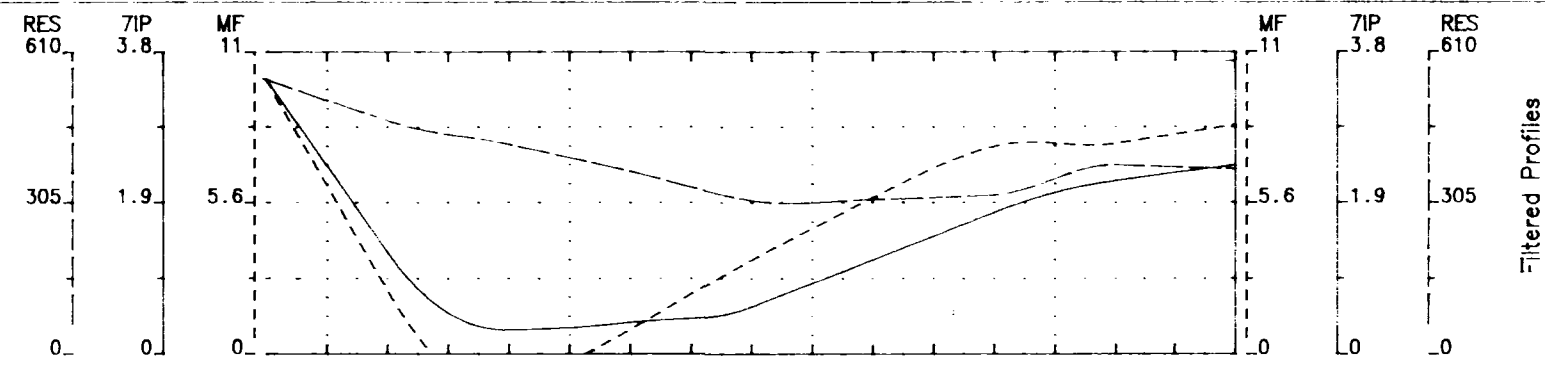
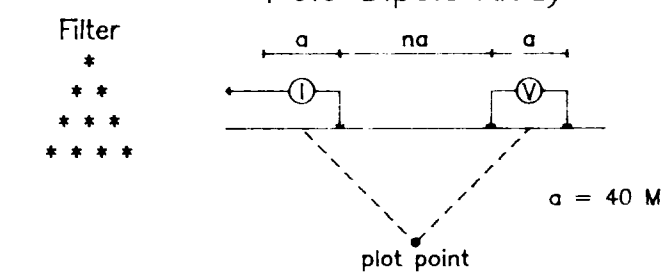
NORTHEAST TISDALE PROJECT
INDUCED POLARIZATION SURVEY
TISDALE TOWNSHIP

Date: 12/96
Interpretation: D. Londry

D. Londry

Line 400 E

Pole-Dipole Array



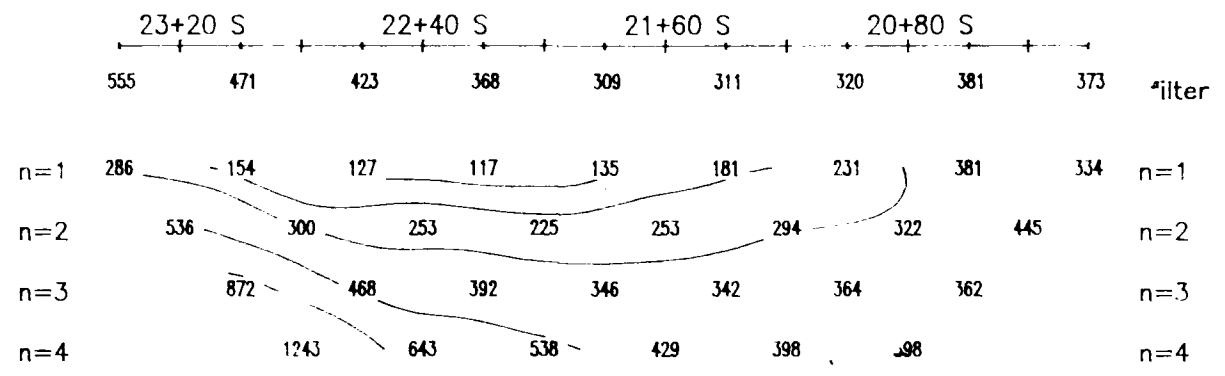
Filtered Profiles

300

Receiver: Scintrex IPR-11
 Type: Spectral Time Domain
 Transmitter: Scintrex TSQ-3, 3kW
 Delay Time: 690 ms
 Integration Time: 360 ms



RESISTIVITY
(ohm-m)



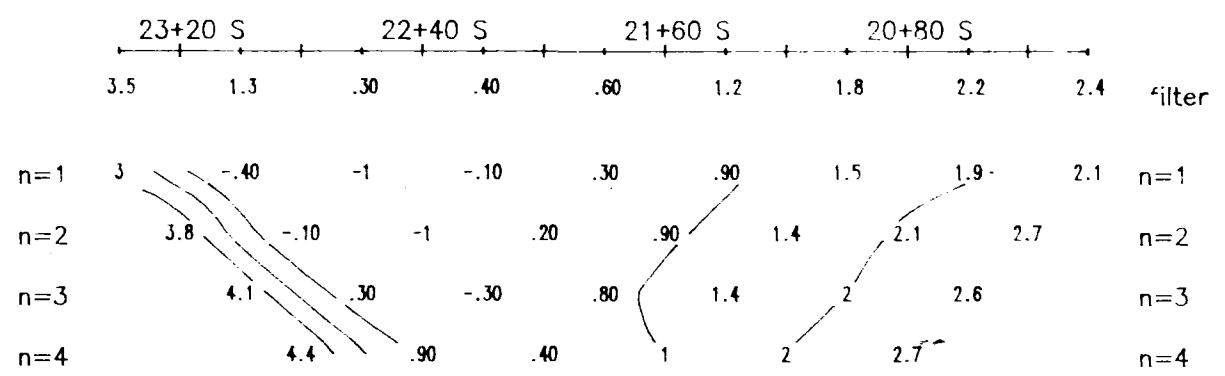
RESISTIVITY
(ohm-m)

CONTOUR INTERVALS

Resistivity: log
 Chargeability: 1 ms
 Metal Factor: log

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

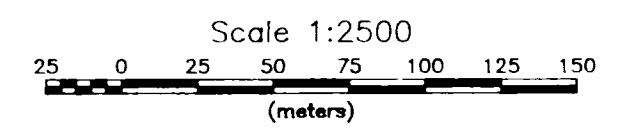
CHARGEABILITY
(ms)



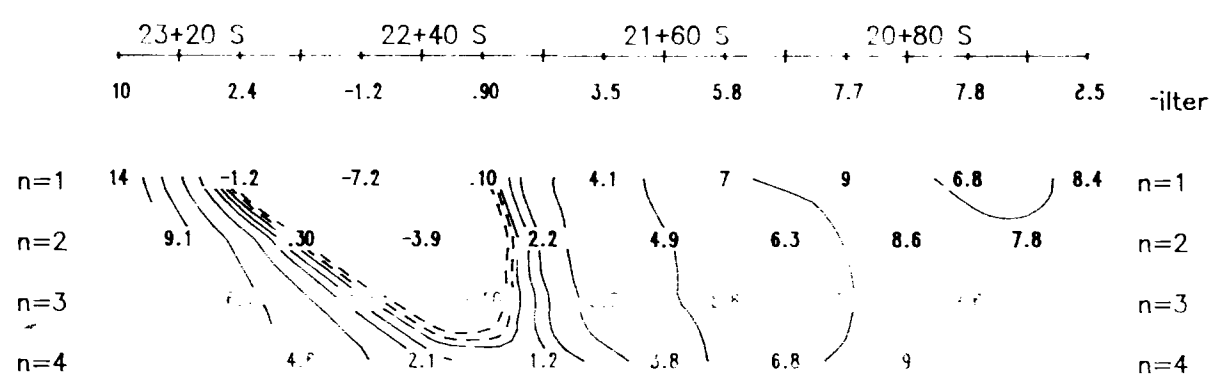
CHARGEABILITY
(ms)

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- ▣ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.



METAL FACTOR
(ip/res * 100)



METAL FACTOR
(ip/res * 100)

NORTHEAST TISDALE PROJECT
 INDUCED POLARIZATION SURVEY
 TISDALE TOWNSHIP

Date: 12/96
 Interpretation: D. Londry

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