

42A05NE0078 2.16285 BRISTOL

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REPORT

MINING LANDS BRANCH

ON AN INDUCED POLARIZATION SURVEY

ON THE

BRISTOL TOWNSHIP PROPERTIES
PORCUPINE MINING DIVISION, ONTARIO

FOR

R.J. POIRIER

2.16285

Submitted by: S.D. Anderson
Rayan Exploration Ltd.
Sept., 1995

Check # 2.12306



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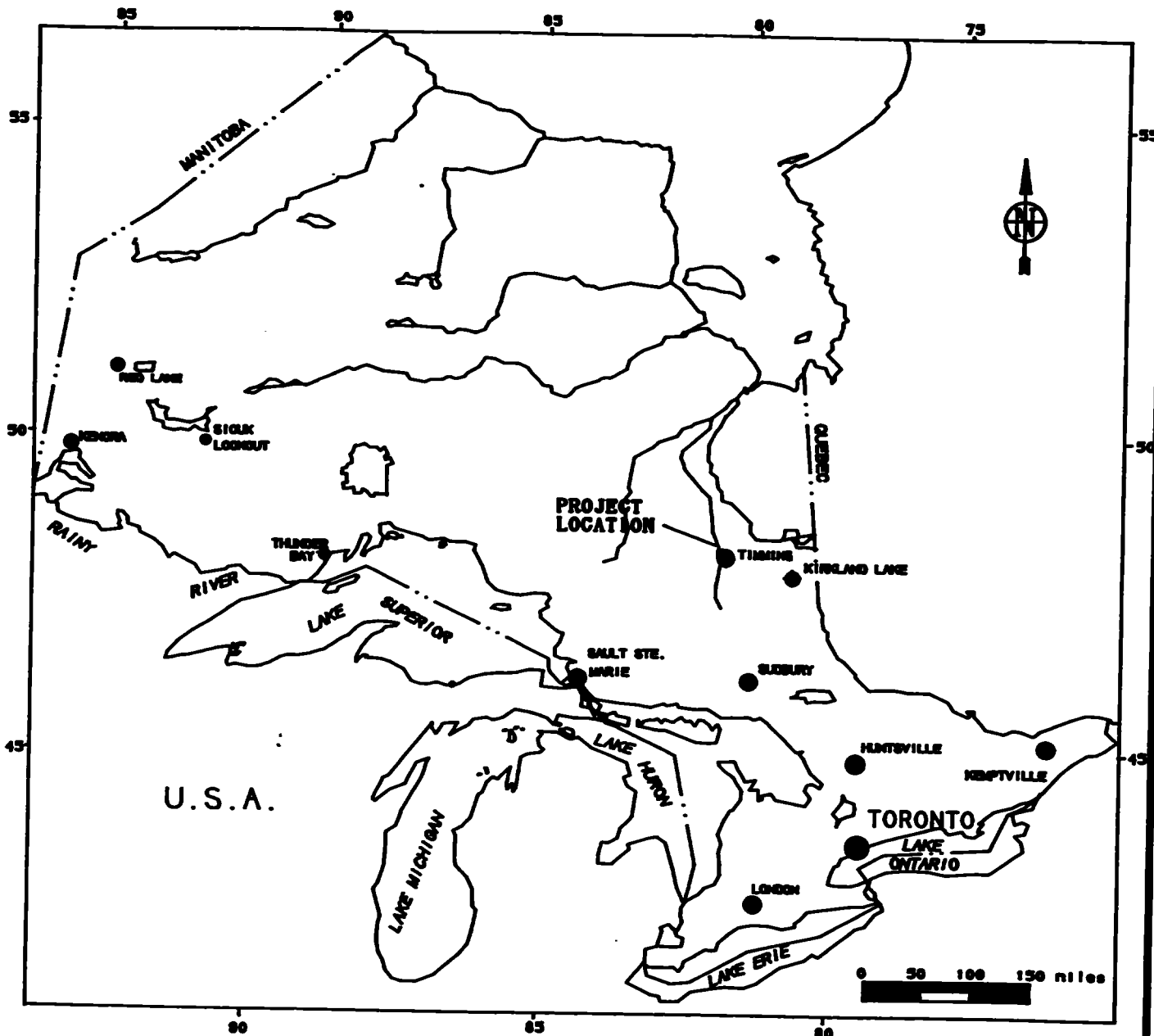
INTRODUCTION

Rayan Exploration Limited of Timmins Ontario was hired on a contract basis by Mr R.J. Poirier to conduct a linecutting program and Induced Polarization survey on his Bristol Township properties. This was carried out over two separate work areas, grid A and grid B, both located in Bristol Township, Porcupine Mining Division, District of Cochrane, Ontario.

The purpose of this program was to further test the two work areas for any IP responses that might indicate areas containing sulphides. The survey on Grid A will be testing a weak HLEM conductor while Grid B will test an area not previously surveyed with IP, due to flooding at the time.

A total of 7 km of grid lines were re-furbished or established and surveyed with IP. Two days were spent surveying Grid A, while due to difficulties with ground contact and geological noise, three days were spent on grid B.

This report will deal with the results obtained from this program and make recommendation based on those results.



PROVINCE OF ONTARIO

FIG 1

POIRIER OPAP 1995	
BRISTOL TWP. GRID A and B	
LOCATION MAP	
Date:	Scale: 1" = 150 mi N.T.S.: 42A/01
Drawn: P.M.	Approved: P.M. File: LOC

LOCATION AND ACCESS

The Bristol Twp. properties, Grid A and Grid B are both located in Bristol Township, Porcupine Mining Division, District of Cochrane, Ontario. Bristol Township is located approximately 10 kilometres southwest from the city of Timmins. Hwy 101 West, runs diagonally, in a southwest direction through the township.

Grid A is situated roughly midway along the Bristol Carscallen township line. Grid B is located in the central part of Bristol township.

Access to Grid A was gained by taking Hwy 101 west from the city of Timmins for roughly 17 kilometres. There a gravel road heads north from the Hwy, just east of Bristol Lake. This road then swings to the northwest, branching off in various directions. It can be travelled by 4 wheel drive or ATV to just north of Grid B, and to the northeastern section of grid A.

This road was used as access for both work areas.

SURVEY PERSONNEL

The I.P. survey was carried out during the latter part of August and the beginning of September, 1995, by the following Rayan Exploration personnel:

W. Pearson	Timmins, Ontario
L. Anderson	Timmins, Ontario
B. Norman	Timmins, Ontario
D. MacArthur	Timmins, Ontario
A. Durham	Timmins, Ontario

All IP work was supervised by R.J. Meikle.

Mr. R.J. Poirier of Timmins Ontario, also assisted with the I.P. survey.

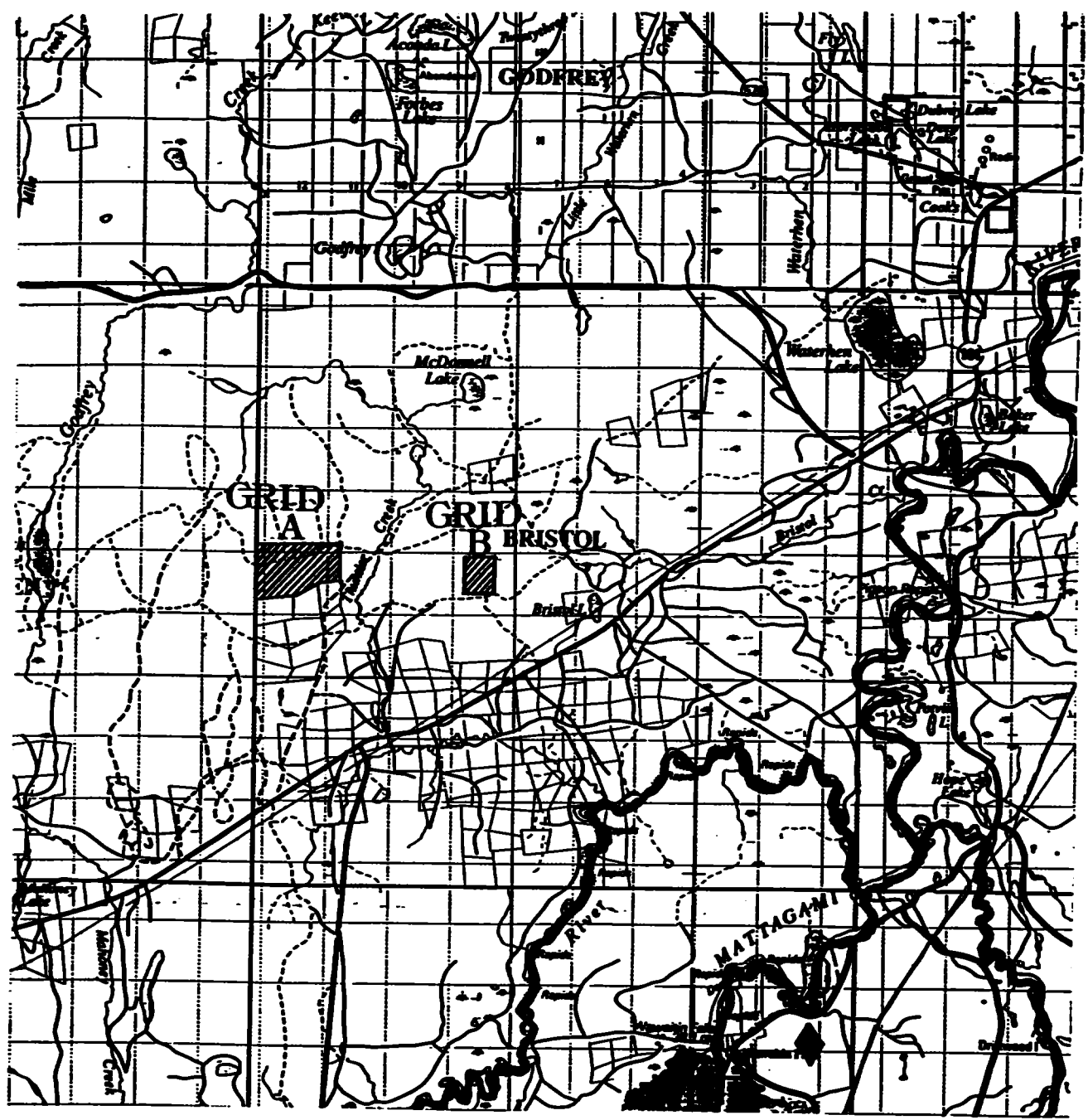


Fig. 2

Client: POIRIER OPAP 1995

Property: BRISTOL TWP GRID A and B

Title:

REGIONAL LOCATION MAP

Scale: 1:50,000 Date: 1995 Project: POIRIER Client: POIRIER	Drawn: [blank] Checked: [blank] Date: [blank] Project: [blank]
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CLAIMS

The Bristol Township Grid A and Grid B properties are made up of two separate work areas. Grid A consists of a block of 6, contiguous unpatented mining claims (6 units), while Grid B is made up of 4 (4 units) contiguous, unpatented mining claims. Both groups are located in Bristol Township, Porcupine Mining Division, District of Cochrane, Ontario. The following is a list of the mining claims covered or partially covered by this work program.

GRID A:

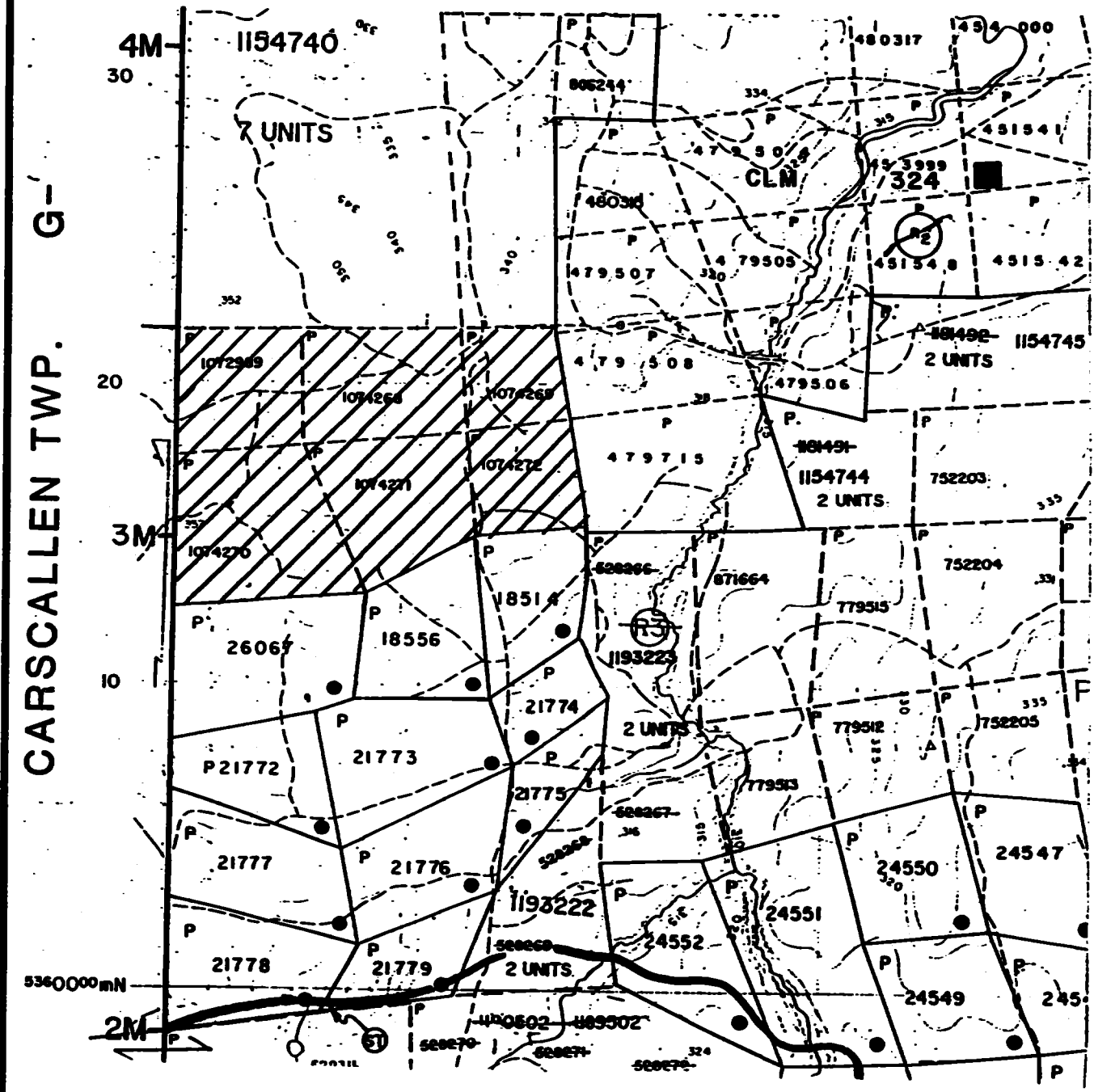
<u>Claim #</u>	<u># of Units</u>
1072989	1
1074268	1
1074269	1
1074270	1
1074271	1
1074272	1
-----	-----
6 claims	6 units

GRID B:

<u>Claim #</u>	<u># of Units</u>
752197	1
752198	1
752199	1
752200	1
-----	-----
4 claims	4 units



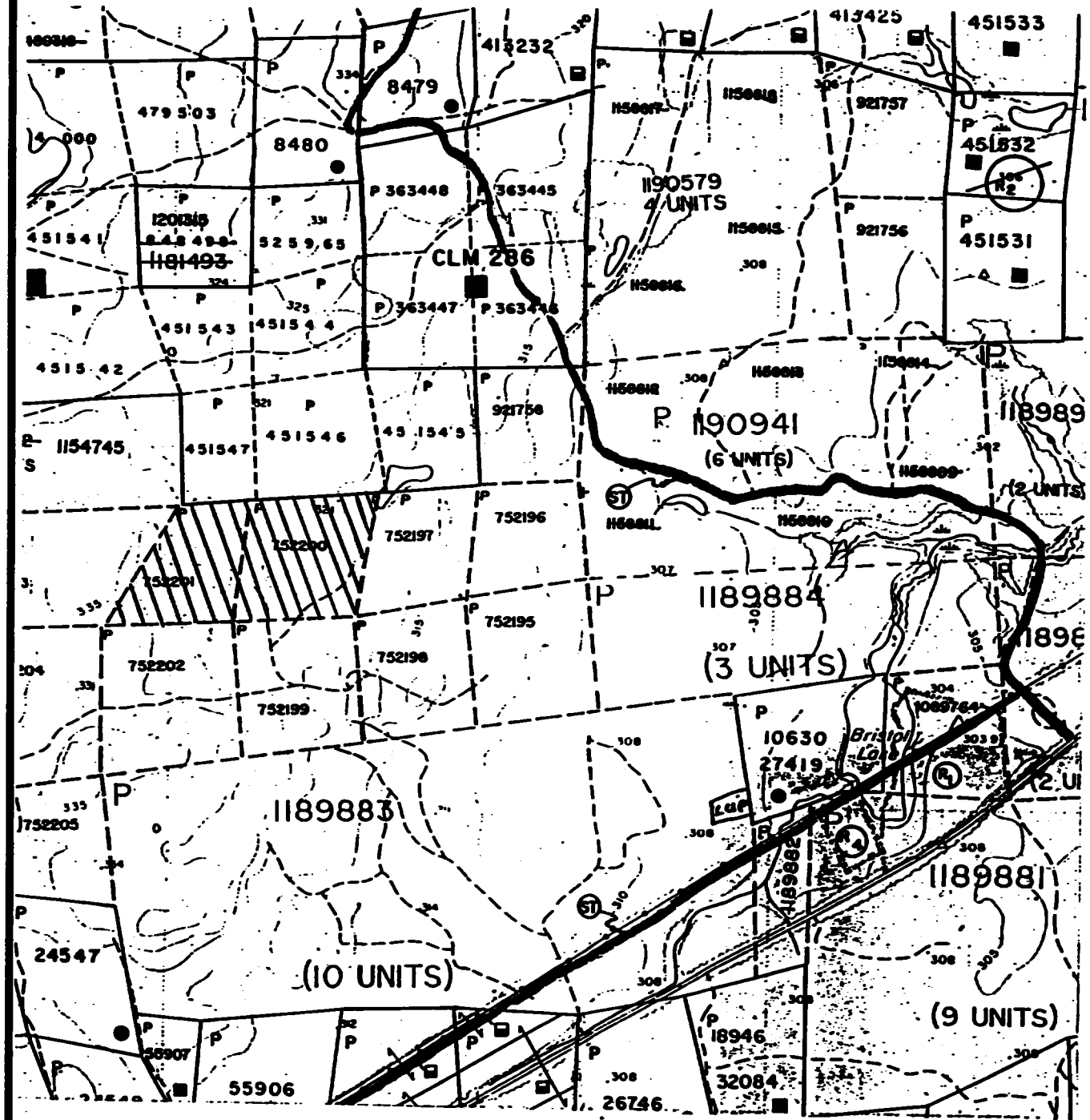
CARSCALLEN TWP. G-



Client: POIRIER OPAP 1995
 Property: BRISTOL TWP GRID A
 Title: CLAIM SKETCH

Project No.	1154740	Date	1995
Client	POIRIER OPAP	Scale	1:5000
Map No.	G-	Sheet	1 of 1
Author	RAYAN	Drawn	RAYAN
Checked	RAYAN	Approved	RAYAN
Issue	1/1995	Revision	1/1995

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Client: **POIRIER OPAP 1995**
Property: **BRISTOL TWP GRID B**
Title: **CLAIM SKETCH**

Scale	AS SHOWN	BY	RAYAN
Author	RAYAN	DATE	11/20/95
Revised	BY	DATE	
Drawn	BY	DATE	
Checked	BY	DATE	



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PREVIOUS WORK

Both the work areas have had some type of work previously conducted on them. The following is a brief summary of this work for each of the work areas.

GRID A:

In 1981 Texas Gulf carried out an overburden drill hole program. This included the completion of 5 hole situated in the current claim block.

In 1991 the current claim holder, Mr. R.J. Poirier completed a magnetometer and HLEM survey over the block. The current work program is testing the results obtained in by Mr. Poirier in 1991.

GRID B:

This block has had much more work performed on it in the past. Some of the first was that recorded by Cortez Exploration Ltd. in 1926, which included trenching which was followed up with a diamond drill program. A total of 6 holes were drilled.

In 1939 Toburn Gold Mines Limited reported carrying out a EM survey which was followed by 3 diamond drill holes. In 1945 Hulbert Balboa Mines completed an addition 8 diamond drill holes.

In 1973 Dome Mines conducted a geophysical program which included a Magnetometer and EM survey on the property.

Some of the most recent, and most extensive work programs carried out was that by BHP-UTAH in 1985-86. The geophysics completed included a magnetometer, VLF and Induced Polarization Survey. A geochemical (soils) and geological mapping program was also completed. After the compilation of this data, a total of 3

diamond drill holes were completed to test some of the targets outlined by the previously described work.

The area being surveyed on grid B is to test ground not tested by BHP-UTAH due to flooding at the time.

GENERAL GEOLOGY

The Bristol Township properties are situated within the western extension of the Abitibi Greenstone Belt. This belt is made up of primarily Precambrian (Arcane) aged rocks, metamorphosed to greenschist facies that extend across northeastern Ontario and northwestern Quebec. The rocks consist of a variety of mafic to felsic volcanics, related volcanoclastic sediments and detrital and chemical sediments and felsic to ultramafic intrusive.

The properties are underlain by rocks of the Carscallen Assemblage which consists of theolitic and calc-alkaline, massive and pillowed basaltic flows interlayered with minor amounts of siliceous rhyolite (Jackson and Fyan 1991). The project areas lie within the Porcupine-Destor deformation zone and the rocks show moderate to intense shearing. The Porcupine-Destor deformation zone is known to host many significant gold deposits as well as many gold occurrences.

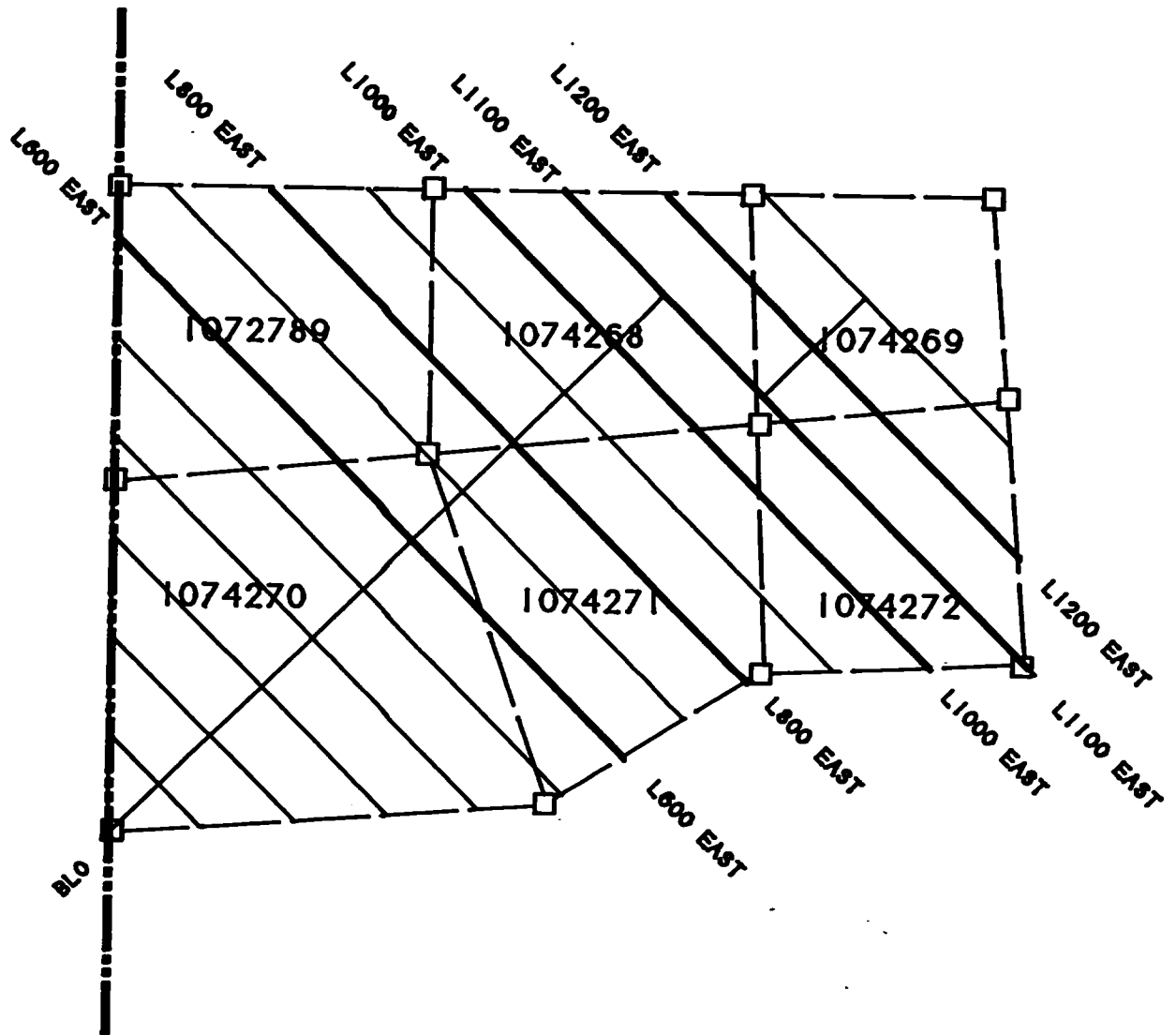
WORK PROGRAM

The work program conducted on the Bristol Properties for Mr. R.J. Poirier involved establishing and re-establishing two separate grids, and covering each with an Induced Polarization survey.

The linecutting for grid A was set up to re-establish 4 kilometres of grid lines that were cut in 1991. The old lines were re-cut so that the current survey could be accurately tied into the previous survey data. The same parameters used in 1991 were used for this program, with a 100 meter line spacing and 25 meter station interval.

The lines established for grid B were all new cut, as no grid had existed in this area before. A total of 3.4 kilometres was cut, using a east-west base line with 100 meter cross-lines and a 25 meter station interval.

Both these grids were cover by the I.P. survey. The parameters used as well as a brief discussion of the I.P. theory can be found below.



——— NEW CUT LINE
 ——— OLD CUT LINE
 - - - CLAIM LINE

Client: **POIRIER OPAP 1995**
 Property: **BRISTOL TWP GRID A**
 Title:
LINE CUTTING SKETCH

DATE	BY	RAYAN EXPLORATION LTD
SEPT/95	ML	
08/	42A/95	
1-1000	000	

BRISTOL TWP

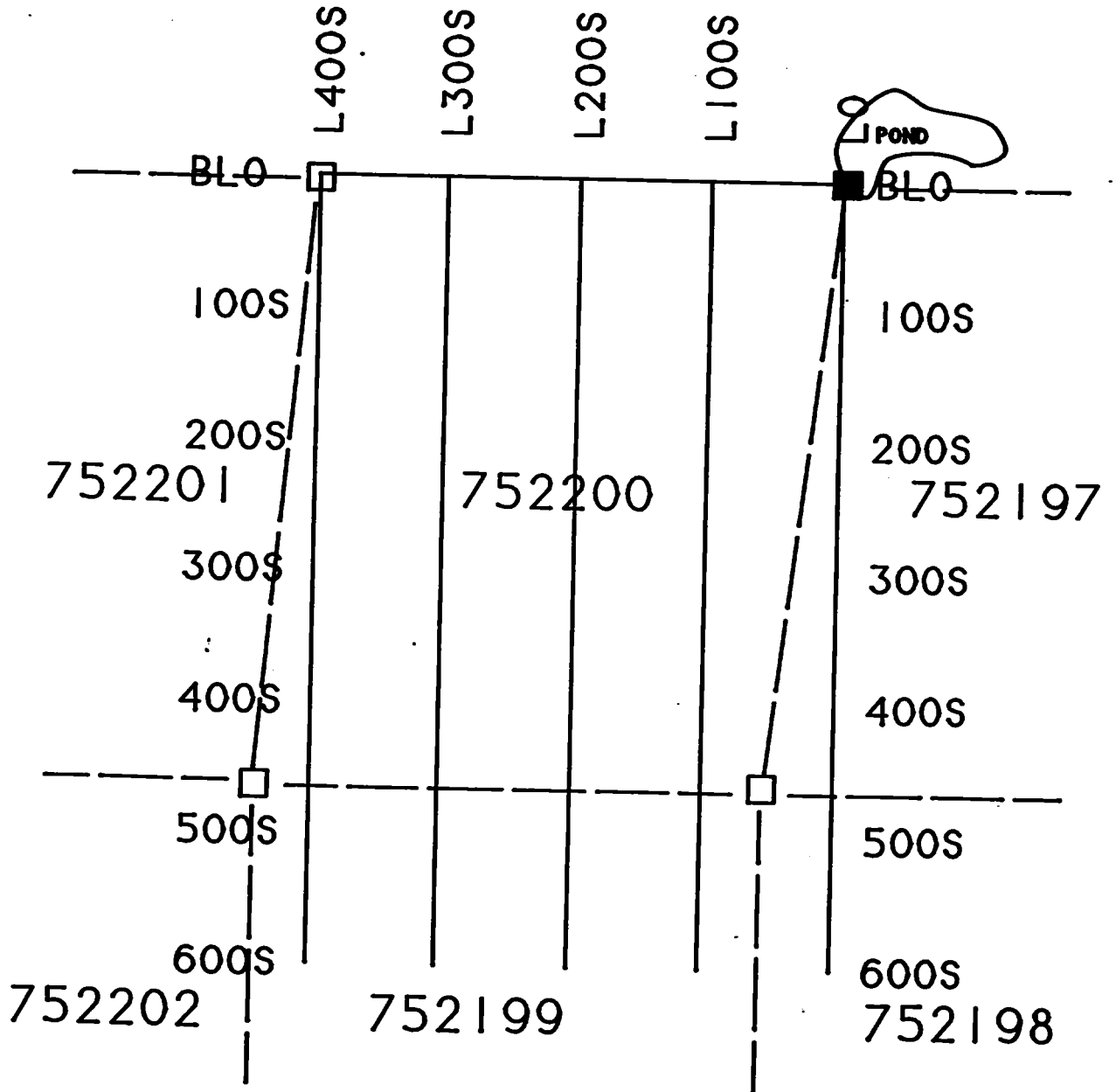


FIG 9

Client: POIRIER OPAP 1995	
Property: BRISTOL TWP GRID 'B'	
Title:	
LINE CUTTING SKETCH	
DATE	BY
07/25	WJG
CRT	42A/99
1:5000	SDA

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General IP Theory

The IP method involves applying voltage across two electrodes in a pulsed manner i.e. 2 seconds on, 2 seconds off. A second "dipole" or electrode pair, measures the residual potential or voltage between them after the voltage is shut off or during the 2 second off cycle. The potential is recorded at different times after the shut off. If, for example, there is sulphide mineralization within the measuring dipoles, they will be polarized or charges set up on the sulphide particles. This polarization gives the zone a capacitor effect, thereby blocking the current delay giving a higher chargeability reading.

A typical signature for many gold showings would be a chargeability high, resistivity high and magnetic low. This would be characteristic of a mineralized, highly altered carbonated and/or silicified zone. However, this is by no means the only geological setting for gold, therefore every profile should be looked at individually and correlated with all other geophysical-geological data.

Electrode Array

The electrode array used for the survey was the Pole-Dipole Array. In this array, one current electrode (C1) and two receiver or potential electrodes (P1,P2), are moved down a line in unison. A second current electrode (C2), is placed normal to the expected strike direction an infinite distance away, at least one km. The two current electrodes are hooked up to a motor-generator and a current applied across them, usually less than 3 amperes. The applied voltage is pulsed in a 2 second on, 2 second off pattern controlled by the transmitter.

Thus we have a single pole current electrode following a pair or dipole of potential electrodes moving down the line. The advantage of this "Pole-Dipole" array over the "Dipole-Dipole" array is a deeper current pattern between the infinite and moving current electrode, resulting in better penetration of conductive overburden. Also, this array is considerably faster in areas of high electrode contact impedance due to frozen and or rocky ground conditions because only one current electrode placement is needed for each reading. A disadvantage of the "Pole-Dipole" array is a slightly more ambiguous interpretation due to the assymetry of the array.

The distance between the potential electrodes is fixed, usually 25 or 50 meters and this is called the "a" spacing. When the potential dipole is positioned with one "a" spacing between the C1 and the nearest P1, it is called a "N=1" reading with a

theoretical plot point at the intersection of a 45 degree line drawn down in a section format from the C1 and nearest P1. When this N=1 reading is finished, the C1 remains stationary and the P1P2 dipole moves ahead one "a" spacing and a N=2 reading is obtained. Using the above plot convention it can be seen that the plot point is now further from the C1 and deeper. This is repeated for as many "N" readings as desired.

IP Survey Parameters

The IP survey was carried out using the following parameters:

Method: Time Domain
Electrode Array: Pole-Dipole
"a" spacing: 25 meters
Number of Dipoles Read: 1-4 inclusive
Pulse Duration: 2 seconds on, 2 seconds off
Delay Time: 310 milliseconds
Integration Time: 140 milliseconds
Receiver: Scintrex IPR-12
Transmitter: Scintrex TSQ-3 3KVA.
Data Presentation: Individual Psuedosections
Scale: 1:2500

RESULTS

The Geophysical Program conducted on the Bristol Twp. properties was successful in outlining 4 areas of interest. One on grid A and two on grid B. All of these will be discussed individually and in further detail below.

Grid A:

The I.P. survey outlined one weak chargeable zone in the southeast corner of the block that is centred from L10E/587S to L12E/562S, and appears to be open in both directions. It is situated over a weakly conductive zone.

When this data correlated with the data from the magnetometer and HLEM surveys conducted over this same ground in 1991 by R.J. Poirier, the I.P. anomaly is shown to be situated approximately 25-50 meters south of a weak HLEM conductor. There does not appear to be any significant magnetic correlation with the I.P. anomaly outlined in this work program.

Grid B:

Within this grid, there were three anomalous zones outlined by the I.P. survey.

The first, and most evident feature is zone A, which strikes roughly east west across the block from L0W/287S to L4W/425S, and remains open in both directions. It is a moderately chargeable zone that is situated over a resistivity high.

Zone B is situated on L1W at 500S and remains open to east.

This feature is moderately chargeable and occurs over a moderately resistive zone. It is similar in characteristic to the previously described anomaly.

The last zone, C, occurs on L4W at 575S and remains open to the west and south. A complete profile of this feature was not obtained, due to the line length. It does however seem similar to the two other zones discussed.

Responses such as the ones occurring on this property, are often an indication of weakly mineralized areas occurring within a silicious or carbonatized environment. However this is not the only explanation for such a response, and all three zones should be further tested.

The extreme southern portion of the grid, as well as the remainder of the property was covered with an IP survey in 1985-86 by BHP-UTAH. This same program included complete coverage with geological mapping, magnetometer and VLF. However, because the grid used in 1985-86 is in very poor shape, and the few picket that were found could not be read, an exact tie-in between this data set and UTAH's was not established.

CONCLUSIONS AND RECOMMENDATIONS

The IP survey conducted on the Bristol Twp, grids A and B was successful in outlining some areas of interest. The results for both grids will be discussed in further detail below.

Grid A:

The IP anomaly outlined on this block showed a weak response that has not been tested with diamond drilling. The only problem with this zone is that it strikes across the extreme southeast corner of the block, with only about 300 meters of it on the property. The anomaly extends off the block onto patented to the south and leased claims to the east.

This response is typical of weakly mineralized zone, and is worthy of further testing, possibly with diamond drilling.

Grid B:

The three IP anomalies discussed are all of interest and should be further tested.

The zone of priority at the point would be zone A. This zone strikes across the entire grid, and shows a response that is typical of a weakly mineralized silicious or carbonatized zone. The other two zones show similar responses, but over limited strike lengths.

The first thing that should be done is to establish an accurate tie in between this data and the BHP UTAH data. This would require spending time in the field to determine where the two grids overlap. Once this is done, the IP can be correlated

with the geological mapping, magnetometer and VLF surveys. This may provide answers as to the source of the IP anomalies detected by this work program. After this, if any of the zones warrant it, a diamond drill program could be set up for further testing.

The original IP survey done by BHP UTAH was done using a 200 ft. dipole spacing and N=1-4. The parameters used for this program were found to be much more affective outlining narrow zones that were not detected by UTAH. In the Porcupine Camp, narrow zones such as this have proven in some cases, to contain significant amounts of gold. For this reason, a strong case can be made for re-surveying the remainder of the block using a 25 meter dipole spacing.

CERTIFICATION

I, Steve Anderson of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from Sir Sandford College , Lindsay, Ontario, obtained in May 1981.

2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, and Saskatchewan.

3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd.. Nanisivik Mines Ltd., R.S. Middleton Exploration Services Ltd., and Rayan Exploration Ltd.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1995.

Dated this 18th day of September 1995
at Timmins, Ontario.

APPENDIX "A"

SCINTREX

IPR-12 Time Domain Induced Polarization/Resistivity Receiver

Brief Description

The IPR-12 Time Domain IP/Resistivity Receiver is principally used in exploration for precious and base metal mineral deposits. In addition, it is used in geoelectrical surveying for groundwater or geothermal resources, often to great depths. For these latter targets, the induced polarization measurements may be as useful as the high accuracy resistivity results since it often happens that geological materials have IP contrasts when resistivity differences are absent.

Due to its integrated, lightweight, microprocessor based design and its large, 16 line display screen, the IPR-12 is a remarkably powerful, yet easy to use instrument. A wide variety of alphanumeric and graphical information can be viewed by the operator during and after the taking of readings. Signals from up to eight potential dipoles can be measured simultaneously and recorded in solid-state memory along with automatically calculated parameters. Later, data can be output to a printer or a PC (direct or via modem) for processing into profiles and maps.

The IPR-12 is compatible with Scintrex IPC and TSQ Transmitters, or others which output square waves with equal on and off periods and polarity changes each half cycle. The IPR-12 measures the primary voltage (Vp), self potential (SP) and time domain induced polarization (Mi) characteristics of the received waveform. Resistivity, statistical and Cole-Cole parameters are calculated and recorded in memory with the measured data and time.

Scintrex has been active in induced polarization research, development, manufacturing, consulting and surveying for over thirty years. We offer a full range of instrumentation, accessories and training.



The IPR-12 Receiver measures spectral IP signals from eight dipoles simultaneously then records measured and calculated parameters in memory.

Benefits

Speed Up Surveys

The IPR-12 saves you time and money in carrying out field surveys. Its capacity to measure up to eight dipoles simultaneously is far more efficient than older receivers measuring a single dipole. This advantage is particularly valuable in drillhole logging where electrode movement time is minimal.

The built-in, solid-state memory records all information associated with a reading, dispensing with the need for any hand written notes. PC compatibility means rapid electronic transfer of data from the receiver to a computer for rapid data processing.

Taking a reading is simple and fast. Only a few keystrokes are virtually needed

since the IPR-12 features automatic circuit resistance checks, SP buckout and gain setting.

High Quality Data

One of the most important features of the IPR-12 in permitting high quality data to be acquired, is the large display screen which allows the operator easy real time access to graphic and alphanumeric displays of instrument status and measured data. The IPR-12 ensures that the operator obtains accurate data from field work.

The number and relative widths of the IP decay curve windows have been carefully chosen to yield the transient information required for proper interpretation of spectral IP data. Timings are selectable to permit a very wide range of responses to be measured.

Specifications

Inputs

1 to 8 dipoles are measured simultaneously.

Input Impedance

16 Megohms

SP Bucking

±10 volt range. Automatic linear correction operating on a cycle by cycle basis.

Input Voltage (Vp) Range

50 μ volt to 14 volt

Chargeability (M) Range

0 to 300millivolt

Tau Range

1 millisecond to 1000 seconds

Reading Resolution of Vp, SP and M

Vp, 10 microvolt; SP, 1 millivolt; M, 0.01 millivolt/volt

Absolute Accuracy of Vp, SP and M

Better than 1%

Common Mode Rejection

At input more than 100db

Vp Integration Time

10% to 80% of the current on time.

P Transient Program

Total measuring time keyboard selectable at 1, 2, 4, 8, 16 or 32 seconds. Normally 14 windows except that the first four are not measured on the 1 second timing, the first three are not measured on the 2 second timing and the first is not measured on the 4 second timing. (See diagram on page 2.) An additional transient slice of minimum 10 ms width, and 10ms steps, with delay of at least 40 ms is keyboard selectable.

Transmitter Timing

Equal on and off times with polarity change each half cycle. On/off times of 1, 2, 4, 8, 16 or 32 seconds. Timing accuracy of ±100 ppm or better is required.

External Circuit Test

All dipoles are measured individually in sequence, using a 10 Hz square wave. The range is 0 to 2 Mohm with 0.1kohm resolution. Circuit resistances are displayed and recorded.

Synchronization

Self synchronization on the signal received at a keyboard selectable dipole. Limited to avoid mistriggering.

Filtering

RF filter, 10 Hz 6 pole low pass filter, statistical noise spike removal.

Internal Test Generator

1200 mV of SP; 807 mV of Vp and 30.28 mV/V of M.

Analog Meter

For monitoring input signals; switchable to any dipole via keyboard.

Keyboard

17 key keypad with direct one key access to the most frequently used functions.

Display

16 lines by 42 characters, 128 x 256 dots, Backlit Liquid Crystal Display. Displays instrument status and data during and after reading. Alphanumeric and graphic displays.

Display Heater

Available for below -15°C operation.

Memory Capacity

Stores approximately 400 dipoles of information when 8 dipoles are measured simultaneously.

Real Time Clock

Data is recorded with year, month, day, hour, minute and second.

Digital Data Output

Formatted serial data output for printer and PC etc. Data output in 7 or 8 bit ASCII, one start, one stop bit, no parity format. Baud rate is keyboard selectable for standard rates between 300 baud and 51.6 kBaud. Selectable carriage return delay to accommodate slow peripherals. Hand-shaking is done by X-on/X-off.

Standard Rechargeable Batteries

Eight rechargeable Ni-Cad D cells. Supplied with a charger, suitable for 110/230V, 50 to 60 Hz, 10W. More than 20 hours service at +25°C, more than 8 hours at -30°C.

Ancillary Rechargeable Batteries

An additional eight rechargeable Ni-Cad D cells may be installed in the console along with the Standard Rechargeable Batteries. Used to power the Display Heater or as back up power. Supplied with a second charger. More than 6 hours service at -30°C.

Use of Non-Rechargeable Batteries

Can be powered by D size Alkaline batteries, but rechargeable batteries are recommended for longer life and lower cost over time.

Operating Temperature Range

-30°C to +50°C

Storage Temperature Range

-30°C to +50°C

Dimensions

Console: 355 x 270 x 165 mm

Charger: 120 x 95 x 55mm

Weights

Console: 5.8 kg

Standard or Ancillary Rechargeable

Batteries: 1.3 kg

Charger: 1.1 kg

Transmitters available

IPC-9 200 W

TSQ-2E 750 W

TSQ-3 3 kW

TSQ-4 10 kW

SCINTREX

In Canada

222 Snidercroft Rd.
Concord, Ontario
Canada, L4K 1B5

Tel: (905) 669-2280
Fax: (905) 669-6403
Telex: (905) 06-964570

In the U.S.A.

85 River Rock Drive
Unit # 202
Buffalo, N.Y.
U.S.A. 14207

Tel: (716) 298-1219
Fax: (716) 298-1317

APPENDIX 'B'

SCINTREX

TSQ-3

3000 W

Time and Frequency Domain IP and Resistivity Transmitter

Function

The TSQ-3 is a multi-frequency, square wave transmitter suitable for induced polarization and resistivity measurements in either the time or frequency domain. The unit is powered by a separate motor-generator.

The favourable power/weight ratio and compact design of this system make it portable and highly versatile for use with a wide variety of electrode arrays. The medium range power rating is sufficient for use under most geophysical conditions.

The TSQ-3 has been designed primarily for use with the Scintrex Time Domain and Frequency Domain Receivers, for combined induced polarization and resistivity measurements, although it is compatible with most standard time domain and frequency domain receivers. It is also compatible with the Scintrex Commutated DC Resistivity Receivers for resistivity surveying. The TSQ-3 may also be used as a very low frequency electromagnetic transmitter.

Basically the transmitter functions as follows. The motor turns the generator (alternator) which produces 800 Hz, three phase, 230 V AC. This energy is transformed upwards according to a front panel voltage setting by a large transformer housed in the TSQ-3. The resulting AC is then rectified in a rectifier bridge. Commutator switches then control the DC voltage output according to the waveform and frequency selected. Excellent output current stability is ensured by a unique, highly efficient technique based on control of the phase angle of the three phase input power.

Features

Current outputs up to 10 amperes, voltage outputs up to 1500 volts, maximum power 3000 VA.

Solid state design for both power switching and electronic timing control circuits.

Circuit boards are removable for easy servicing.

Switch selectable wave forms: square wave continuous for frequency domain and square wave interrupted with automatic polarity change for time domain.

Switch selectable frequencies and pulse times.

Overload, underload and thermal protection for maximum safety.

Digital readout of output current.

Programmer is crystal controlled for very high stability.

Low loss, solid state output current regulation over broad range of load and input voltage variations.

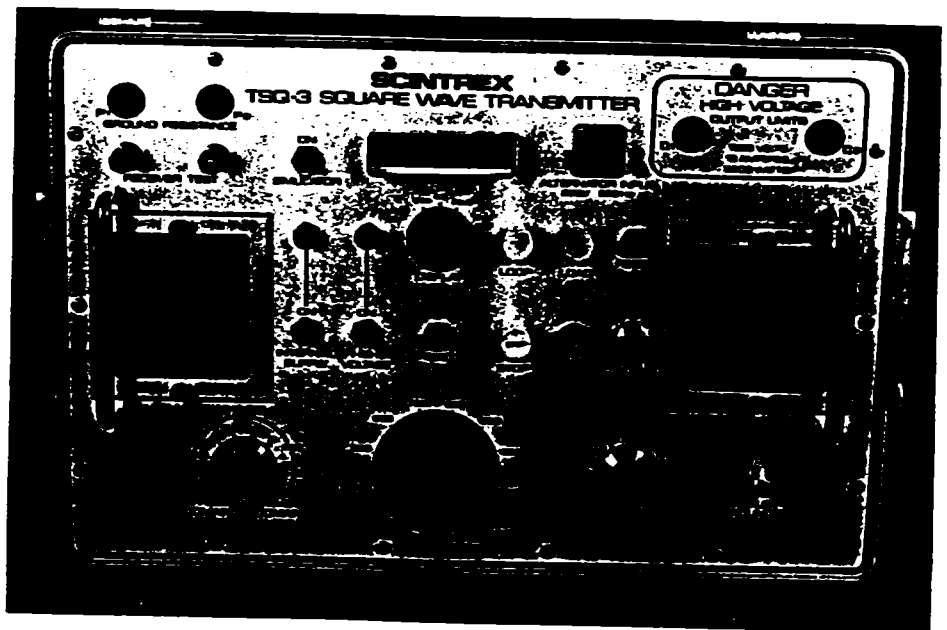
Rectifier circuit is protected against transients.

Excellent power/weight ratio and efficiency.

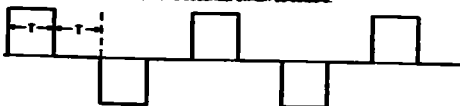
Designed for field portability; motor-generator is installed on a convenient frame and is easily man-portable. The transmitter is housed in an aluminum case.

The motor-generator consists of a reliable Briggs and Stratton four stroke engine coupled to a brushless permanent magnet alternator.

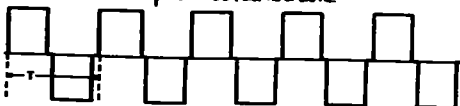
New motor-generator design eliminates need for time domain dummy load.



Time Domain: $T = 1, 2, 4$ or 8 seconds, switch selectable.



Frequency Domain: $T = \frac{1}{f}$ and $f = 0.01, 0.1, 1.0$ or 3.0 Hz.



Waveforms output by the TSQ-3

**Technical
Description of
TSQ-3/3000W
Time and Frequency Domain
IP and Resistivity Transmitter**



TSQ-3 transmitter with portable motor generator unit

SCINTREX

222 Snidercroft Road
Concord Ontario Canada
L4K 1B5

Telephone: (416) 669-2280
Cable: Geoscint Toronto
Telex: 06-964570

Geophysical and Geochemical
Instrumentation and Services

Transmitter Console	
Output Power	3000 VA maximum
Output Voltages	300, 400, 500, 600, 750, 900, 1050, 1200, 1350 and 1500 volts, switch selectable
Output Current	10 amperes maximum
Output Current Stability	Automatically controlled to within $\pm 0.1\%$ for up to 20% external load variation or up to $\pm 10\%$ input voltage variation
Digital Display	Light emitting diodes permit display up to 1999 with variable decimal point; switch selectable to read input voltage, output current, external circuit resistance. Dual current range, switch selectable
Absolute Accuracy	$\pm 3\%$ of full range
Current Reading Resolution	10 mA on coarse range (0-10A) 1 mA on fine range (0-2A)
Frequency Domain Waveform	Square wave, continuous with approximately 6% off time at polarity change
Frequency Domain Frequencies	Standard: 0.1, 0.3, 1.0 and 3.0 Hz, switch selectable Optional: any number of frequencies in range 0 to 5 Hz.
Time Domain Cycle Timing	1:1:1:1; on:off: on:off; automatic
Time Domain Polarity Change	each 2t; automatic
Time Domain Pulse Durations	Standard: t = 1, 2, 4 or 8 seconds Optional: any other timings
Time and Frequency Stability	Crystal controlled to better than .01%
Efficiency	.78
Operating Temperature Range	-30°C to +50°C
Overload Protection	Automatic shut-off at 3300 VA
Underload Protection	Automatic shut-off at current below 75mA
Thermal Protection	Automatic shut-off at internal temperature of +85°C
Dimensions	350 mm x 530 mm x 320 mm
Weight	25.0 kg.
Power Source	
Type	Motor flexibly coupled to alternator and installed on a frame with carrying handles.
Motor	Briggs and Stratton, four stroke, 8 H.P.
Alternator	Permanent magnet type, 800 Hz, three phase 230 V AC
Output Power	3500 VA maximum
Dimensions	520 mm x 715 mm x 560 mm
Weight	72.5 kg
Total System	
Shipping Weight	150 kg includes transmitter console, motor generator, connecting cables and re-usable wooden crates



Personal information collected on this form is obtained under the authority of this collection should be directed to the Provincial Manager, Mining Land Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.



42A05NE0078 2.16285 BRISTOL

900

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

Recorded Holder(s) R.S. Pollock, Address 566 Birch St. North Timmins Ont., Mining Division Porcupine, Township Area Bristol Twp, Date Work Performed From: Aug 15/95 To: Sept 19/95, Client No. 183246, Telephone No. 705-265-2576, M or G Plan No. V-3998

Work Performed (Check One Work Group Only)

Table with columns: Work Group, Type, Date. Includes 'Geotechnical Survey' with 'Induced Polarization Report' and 'RECEIVED' stamp.

Total Assessment Work Claimed on the Attached Statement of Costs \$ 5200

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)

Table with columns: Name, Address. Entry: Rayan Exploration Ltd, 676 Murray St. Timmins Ont.

(attach a schedule if necessary)

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: Sep 19/95, Recorded Holder or Agent (Signature): R.S. Pollock

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: Steve Anderson, 490 McMillan St. Timmins Ont. P4N 1Y5, Telephone No. 705-269-2851, Date: Sept 19/95, Certified by (Signature): Steve Anderson

For Office Use Only - 4866

Form with fields: Total Value Cr. Recorded (\$5,200), Date Recorded, Mining Recorder, Deemed Approval Date (Dec 18, 1995), Date Approved, Date Notice for Amendments Sent.

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
5	752-195	1
8	752-196	1
2	752-197	1
6	752-198	1
1	752-199	1
2	752-200	1
	752-201	1
	752-202	1
	752-203	1
	752-204	1
	752-205	1
Total Number of Claims		11

Value of Assessment Work Done on the Claim	Value Applied to the Claim
	400
	400
676	400
208	400
936	400
3380	800
	400
	400
	400
	400
	400
Total Value Work Done	5200
Total Value Work Applied	5200

Value Assigned from the Claim	Reserve Work to be Claimed at a Future Date
276	
536	
2580	
Total Assigned From	3392
Total Reserve	

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 OCT - 3 1955
 MINING LANDS BRANCH

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 prioritize 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 prioritized on the attached appendix.

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

cut back
752201

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

Note 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

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

Transaction No./N° de transaction
W9560.00 385

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 claims. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 4th Floor, 180 Cedar Street, Sudbury, Ontario P2E 6A5, telephone (705) 670-7294.

Les renseignements personnels contenus dans le présent formulaire sont recueillis en vertu de la Loi sur les mines et servent 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, 158, rue Cedar, 4^e étage, Sudbury (Ontario) P2E 6A5, téléphone (705) 670-7294.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Total Total global
Wages Salaires	Labour Main-d'œuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et du consultant	Typ Imagerie		
	Geophysics Report	5200	5200
Supplies Used Fournitures utilisées	Type		
Equipment Rented Location de matériel	Type		
Total Direct Costs Total des coûts directs			5200

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable on 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	Total Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Rehabilitation and Demolition Réhabilitation et démolition			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'exceedant pas 20 % des coûts directs)			
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)	

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 déclarées 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.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 80% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	$\times 0.80 =$

Ramises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale autorisée de crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 80 % de la valeur totale de crédit d'évaluation surmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Montant admissible
	$\times 0.80 =$

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 Form M.C. Work form.

That as _____ I am authorized (Signature, Name, Agent, Position in Company) to make this certification

Attestation de l'état des coûts SEP 19 1995

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 le formulaire de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (Signature, nom, représentant, poste occupé dans la compagnie) à faire cette attestation.

Signature: Pelland Poirier Date: SEP 19 1995



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

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

December 08, 1995

Our File: 2.16285
Transaction #: W9560.00385

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Avenue, 1st Floor
Timmins, Ontario
P4N 2S7

Dear Mr. White:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
P.752197 ET AL IN BRISTOL TOWNSHIP**

Assessment work credits have been approved as outlined on the original submission. The credits have been approved under Section 14, Geophysics (IP), Mining Act Regulations.

The approval date is December 7, 1995.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

ORIGINAL SIGNED BY:

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

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

LJ/jl
Enclosure:

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Sudbury, Ontario

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary (uninterrupted)	Railroad
Boundary (interrupted)	Single Track
District, Township Index Reference	Double Track
Approximate	Abandoned
Lot, Concession	Road
Approximate	Highway, County
Part Boundary	Tramway
Approximate	Area (less of doubtful maintenance or significant divisions)
Part Boundary	Tram, Bush Road (interior strip)
Approximate	Rapids
Double line river with multiple rapids	Reservoir
Double line river with multiple rapids	River, Stream, Canal
Approximate	Approximate
Control Points	Approximate
Horizontal	Approximate
Vertical	Approximate
Culvert	Approximate
Falls	Approximate
Double line river	Approximate
Fence, Hedge, Wall	Approximate
Feature Outing (Construction Features, etc.)	Approximate
Flooded Land	Approximate
Lock	Approximate
Marsh or Swamp	Approximate
Mast	Approximate
Mine Head Frame	Approximate
Outcrop	Approximate

AREAS WITHDRAWN FROM DISPOSITION

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

Order No.	Date	Disposition	File
1	1945/54	S.R.O.	1645/54

MINING AND SURFACE RIGHTS WITHDRAWN FROM DISPOSITION - STAKING, SALE OR LEASE
 SECTION 34 OF THE MINING ACT 1963
 ORDER NO. W-86196-WR DATED 06-06/77-00

MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE
 UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990
 ORDER NO. O.P.-22/792 NER DATED 92-AUG-01
 (CLM NO. 5 P-43041 TO P-43548 INCL. P-43389, P-45400, P-479503 TO P-479506 INCL. AND P-48030 TO P-48037 INCL.)

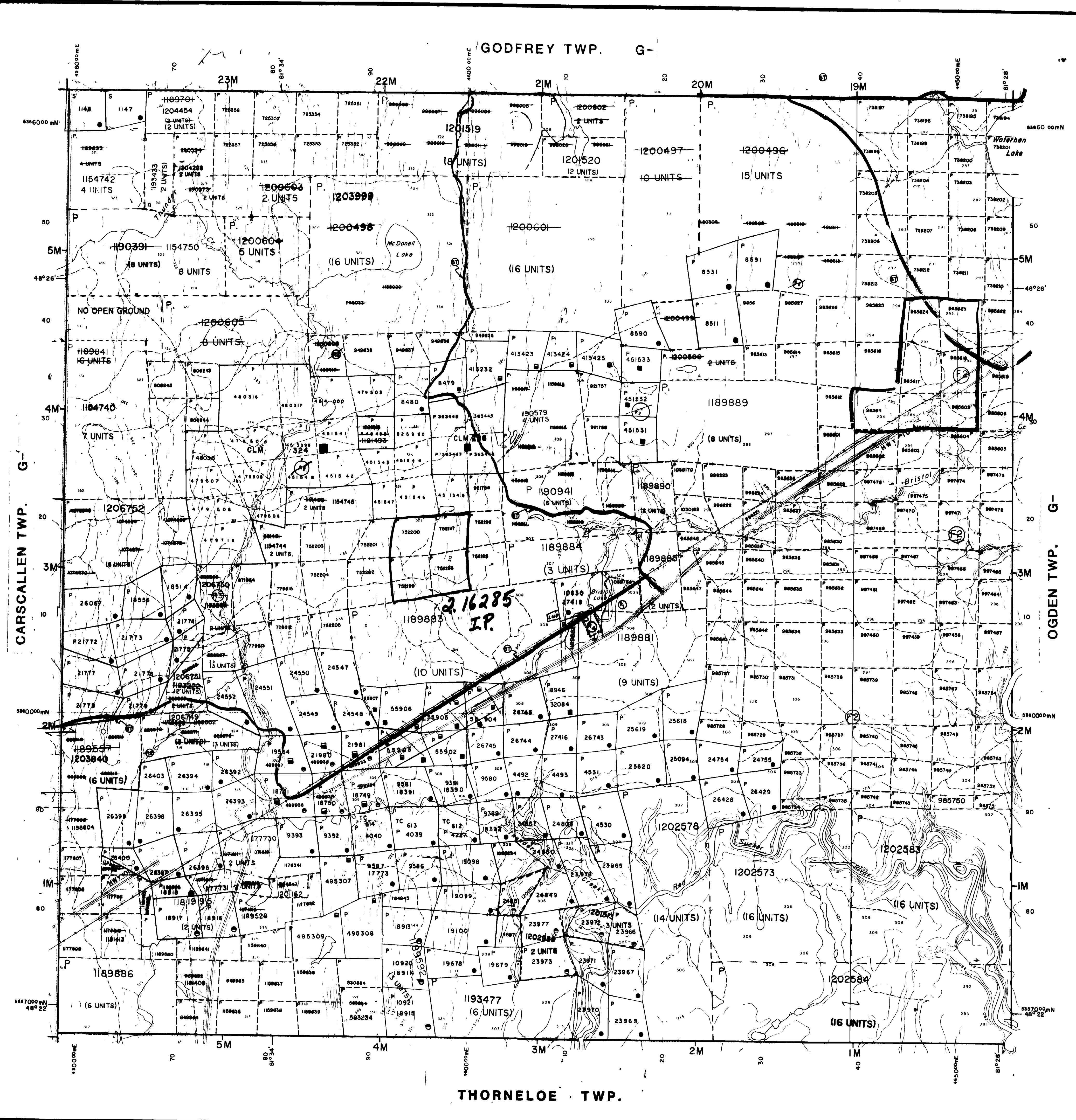
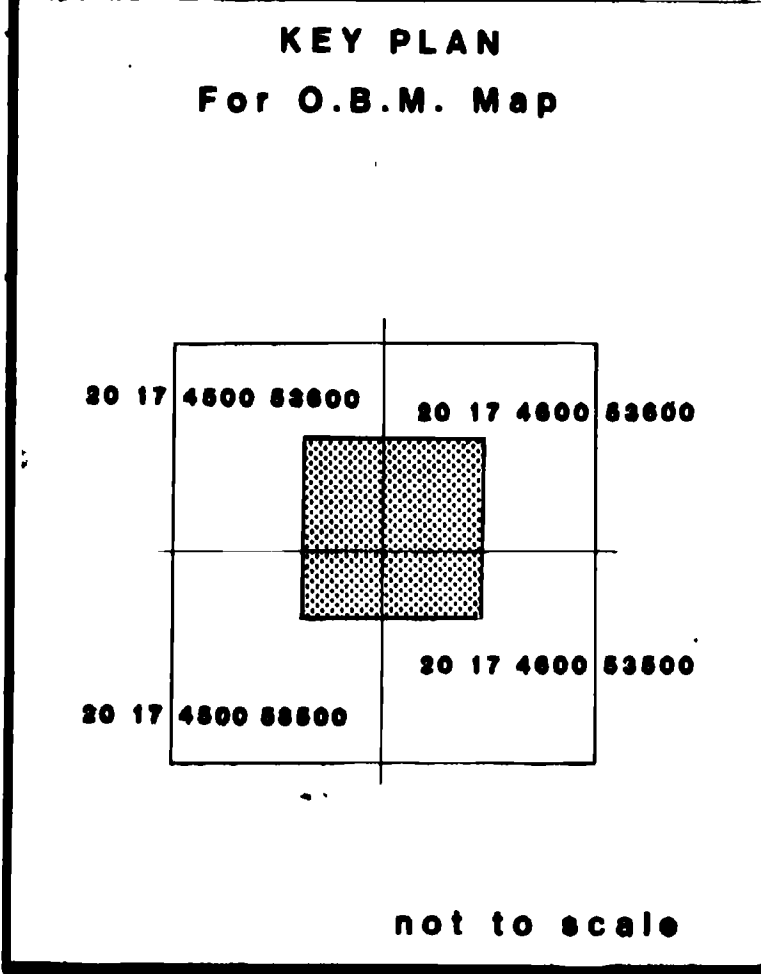
MINING AND SURFACE RIGHTS WITHDRAWN FROM DISPOSITION - STAKING, SALE OR LEASE
 SECTION 34 OF THE MINING ACT 1963
 ORDER NO. W-86196-WR DATED 06-06/77-00

THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1982/83. FURTHER INFORMATION AVAILABLE ON FILE.

MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990
 ORDER NO. O.P.-22/792 NER DATED 92-AUG-01
 (CLM NO. 5 P-43041 TO P-43548 INCL. P-43389, P-45400, P-479503 TO P-479506 INCL. AND P-48030 TO P-48037 INCL.)

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 ORDER NO. O.P.-22/792 NER DATED 92-AUG-01
 (CLM NO. 5 P-43041 TO P-43548 INCL. P-43389, P-45400, P-479503 TO P-479506 INCL. AND P-48030 TO P-48037 INCL.)

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.	
UTILITY LINES	
RAILWAY AND RIGHT OF WAY	
FLOODING OR FLOODING RIGHTS	
NON-PERENNIAL STREAM	
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 8 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1978, CHAP. 280, SEC. 83, SUBSEC. 1.

500 0 1000 Metres
 10 0 20 30 40 50 60 70 Chains
 500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000
ZONE 17

APPLICATION PENDING UNDER THE PUBLIC LANDS ACT
 NOTICE RECEIVED 08-DEC-81
 KNOWLEDGE TRAIL

APPLICATION FOR CROWN LAND UNDER THE PUBLIC LANDS ACT
 COB EXIGATION TOP SOIL HOLDING STORAGE ETC.

F2 THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1986/86.
 AREAS DESIGNATED EXACTLY AS SUBMITTED BY MNR TIMMINS.

ISSUED
 1:09 27 1995
 PORCUPINE MINING DIVISION

2-16285

TOWNSHIP
BRISTOL

M N R ADMINISTRATIVE DISTRICT
TIMMINS

MINING DIVISION
PORCUPINE

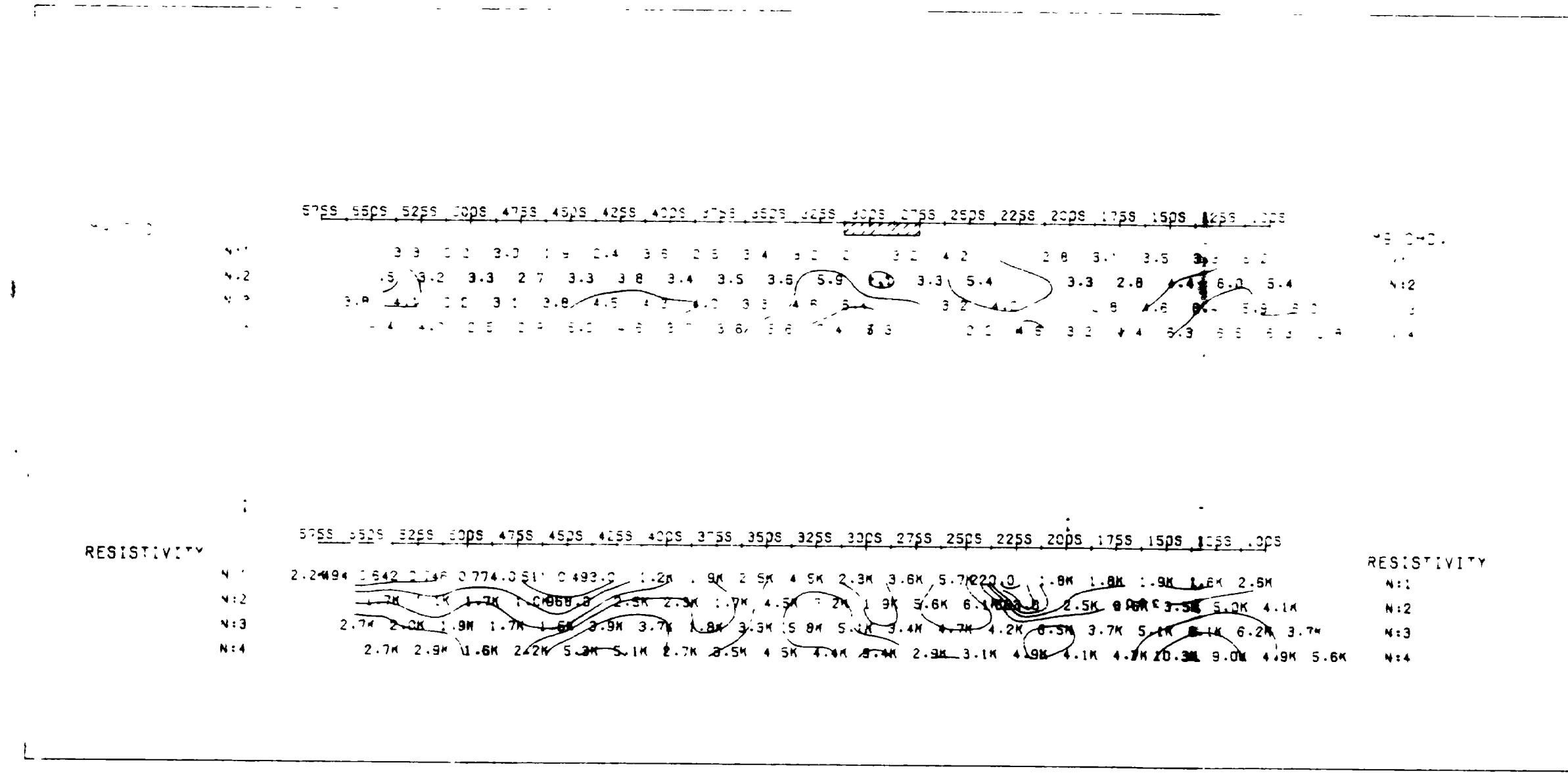
LAND TITLES / REGISTRY DIVISION RECEIVED
COCHRANE
 OCT - 6 1995

Ministry of Natural Resources
 Ontario

MINING LANDS BRANCH

ORIGINAL COMPILATION JULY 1984
 ACTIVATED JULY 19, 1992 BY DC
 REVISED CHECKED BY U.W.

Number:
G-3998



LINE : 600 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

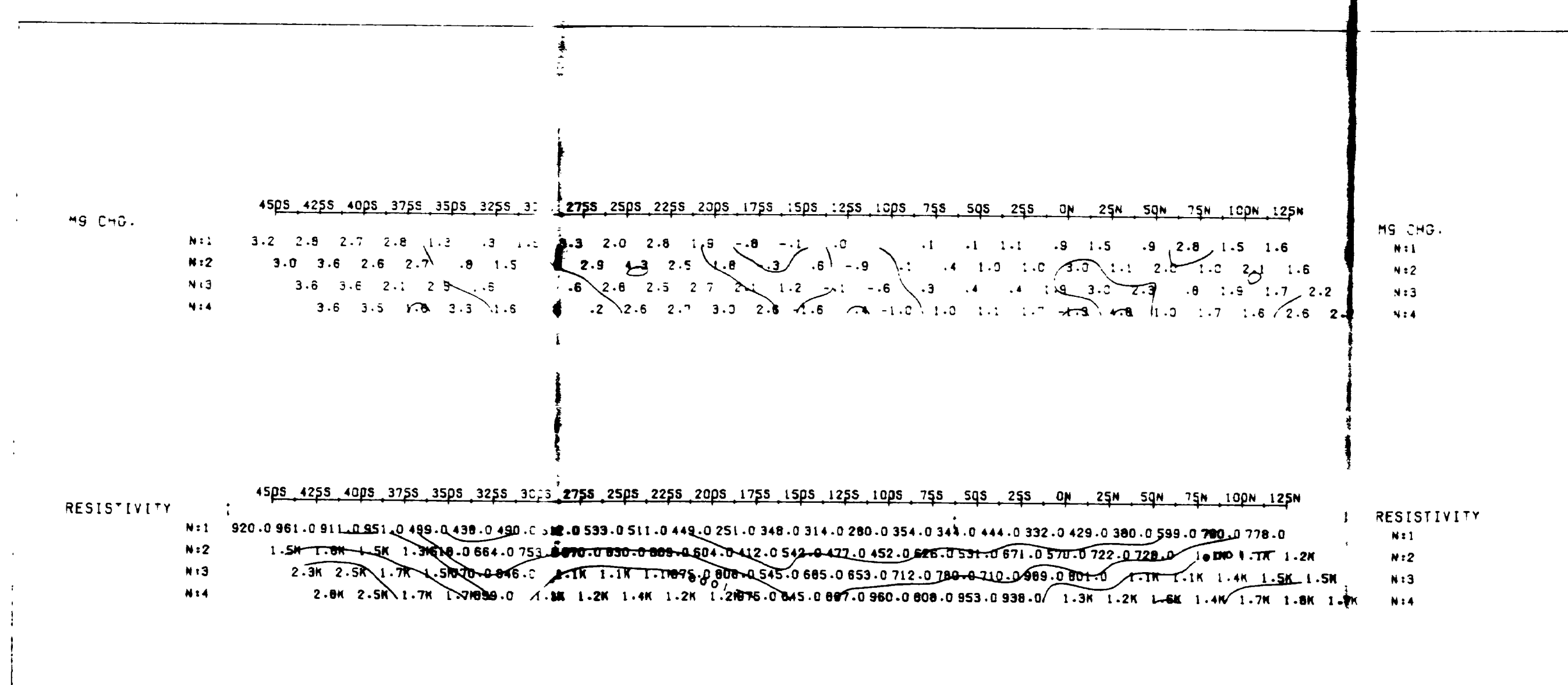
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 RECEIVER TYPING: 2 sec ON 2 sec OFF
 TRANSMITTER SCHEMATIC T90-3 30VA
 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID B PROPERTY
 BRISTOL TOWNSHIP

DATE : SEPT. 1995 REF : R278-B

SCALE = 1 : 2500

RAYAN EXPLORATION LTD.



LINE : 600 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

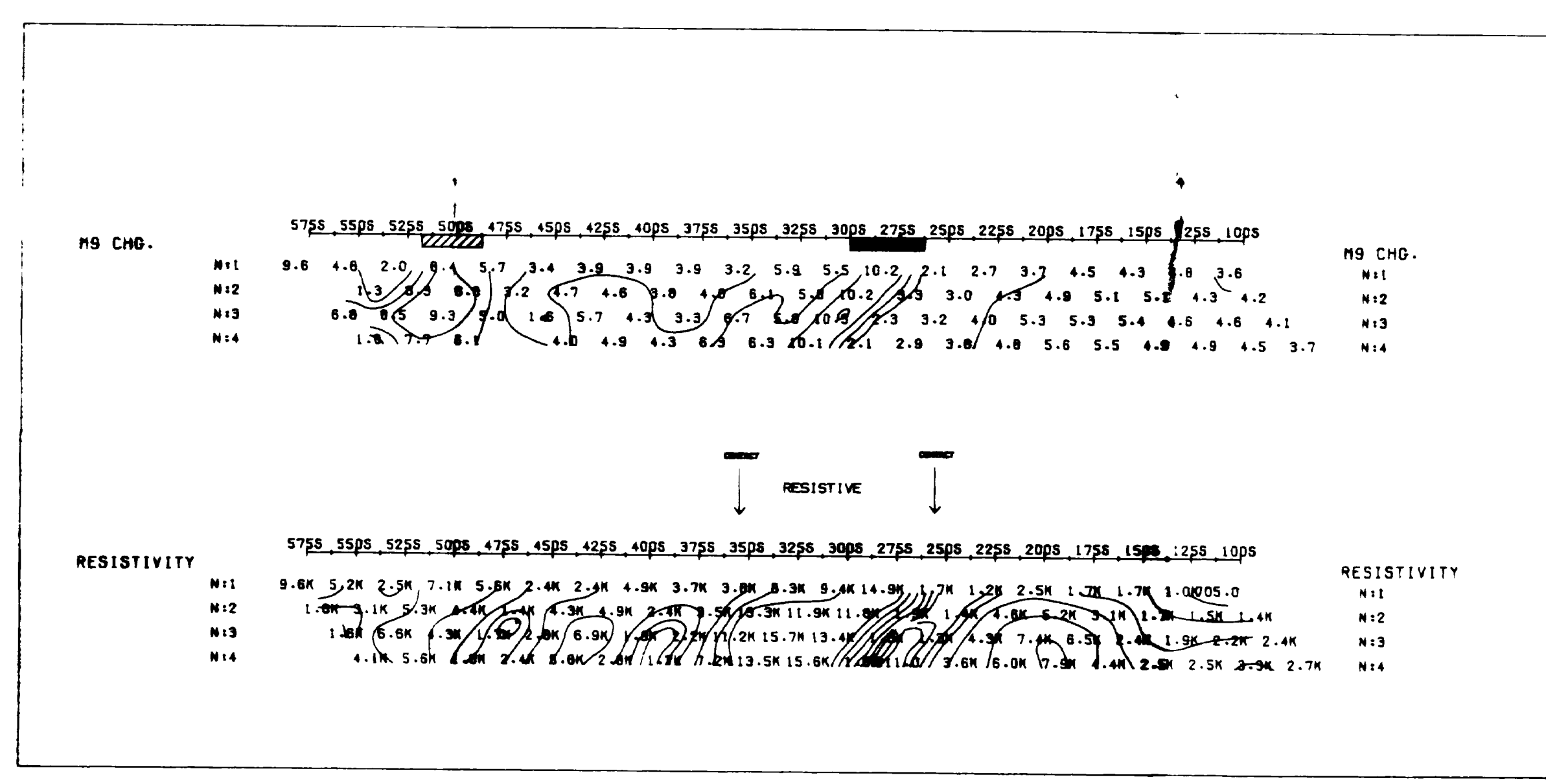
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 TRANSMITTER SCHEMATIC T90-3 30VA
 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID A PROPERTY
 BRISTOL TOWNSHIP

DATE : AUG/95 REF : RJM

SCALE = 1 : 2500

RAYAN EXPLORATION LIMITED



LINE : 100 W

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

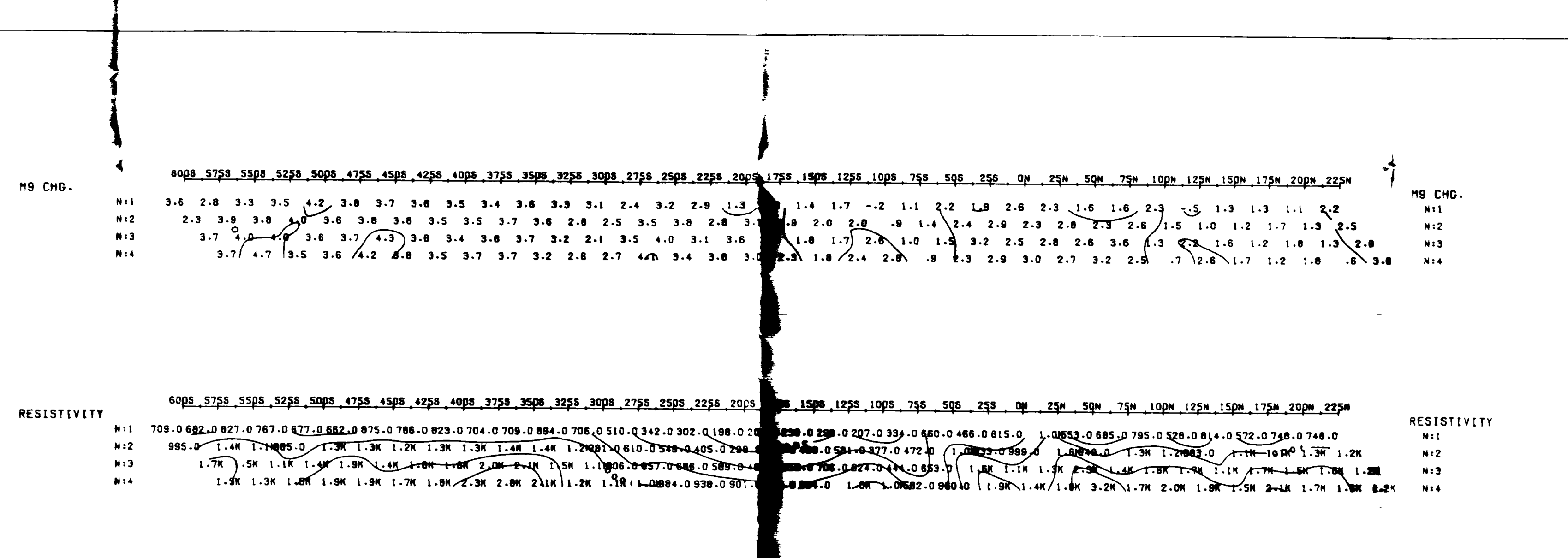
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 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID B PROPERTY
 BRISTOL TOWNSHIP

DATE : SEPT. 1995 REF : R278-B

SCALE = 1 : 2500

RAYAN EXPLORATION LTD.



LINE : 800 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

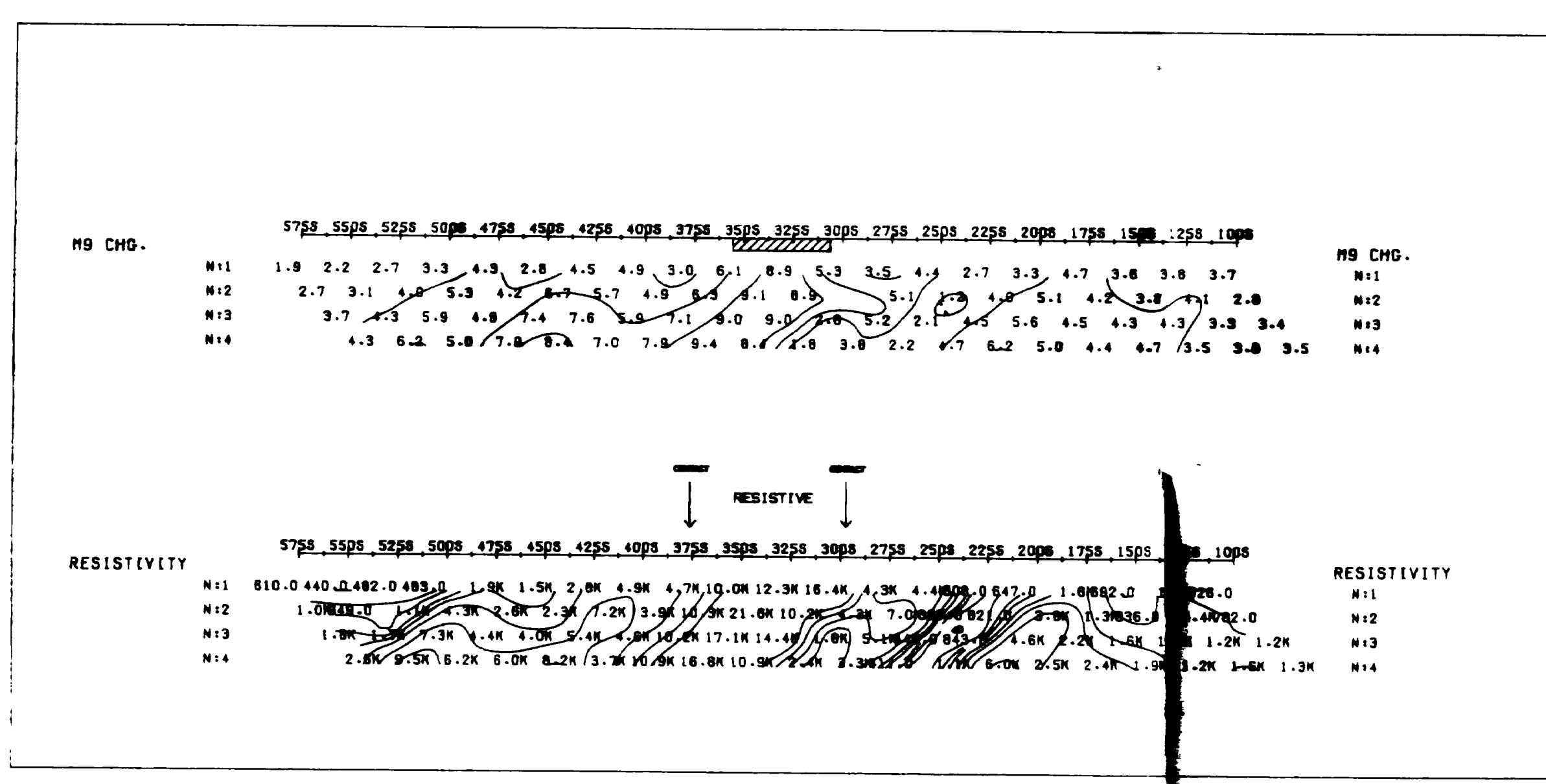
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 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID A PROPERTY
 BRISTOL TOWNSHIP

DATE : AUG/95 REF : RJM

SCALE = 1 : 2500

RAYAN EXPLORATION LIMITED



LINE : 200 W

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

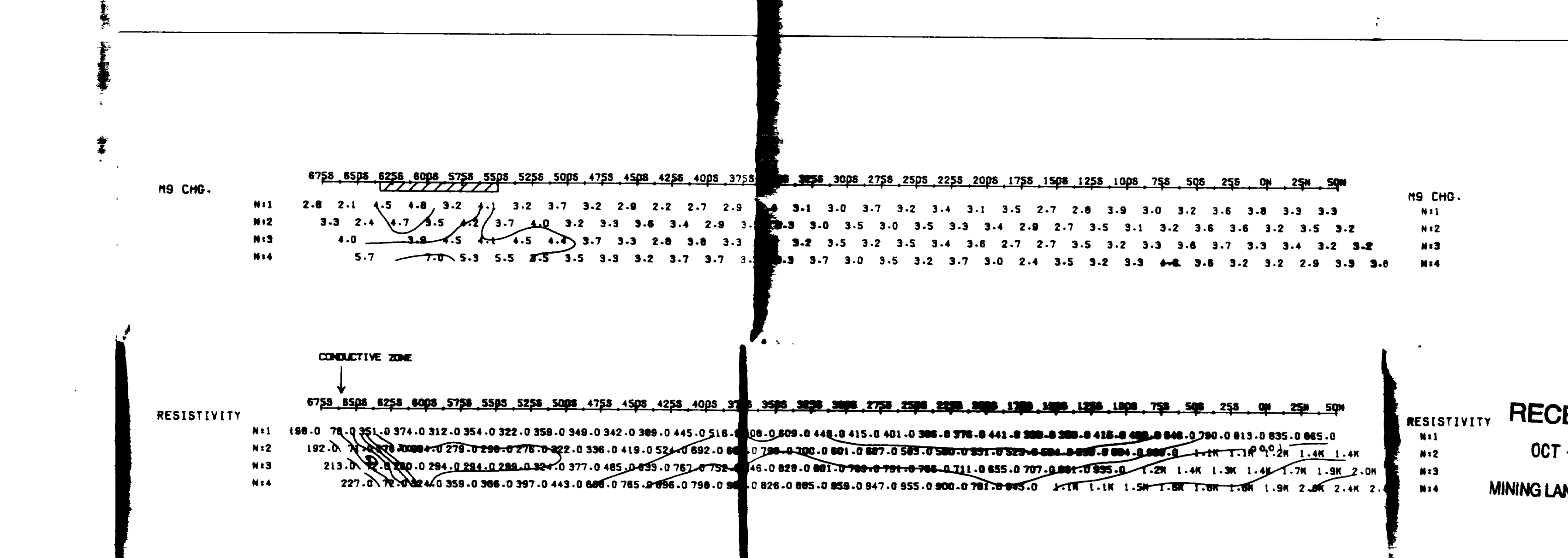
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 TRANSMITTER SCHEMATIC T90-3 30VA
 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID B PROPERTY
 BRISTOL TOWNSHIP

DATE : SEPT. 1995 REF : R278-B

SCALE = 1 : 2500

RAYAN EXPLORATION LTD.



LINE : 1000 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

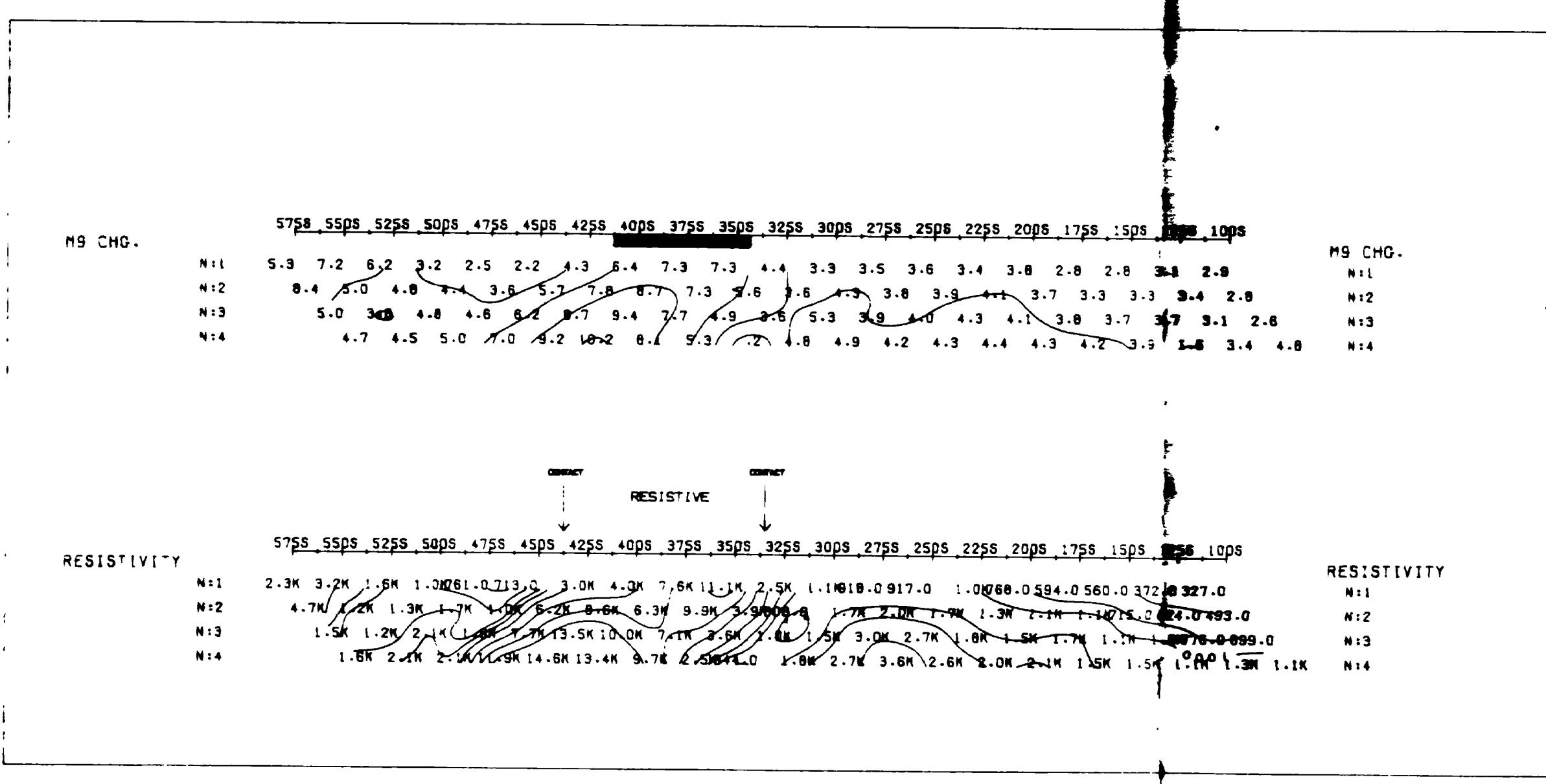
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 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID A PROPERTY
 BRISTOL TOWNSHIP

DATE : AUG/95 REF : RJM

SCALE = 1 : 2500

RAYAN EXPLORATION LIMITED



LINE : 300 W

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

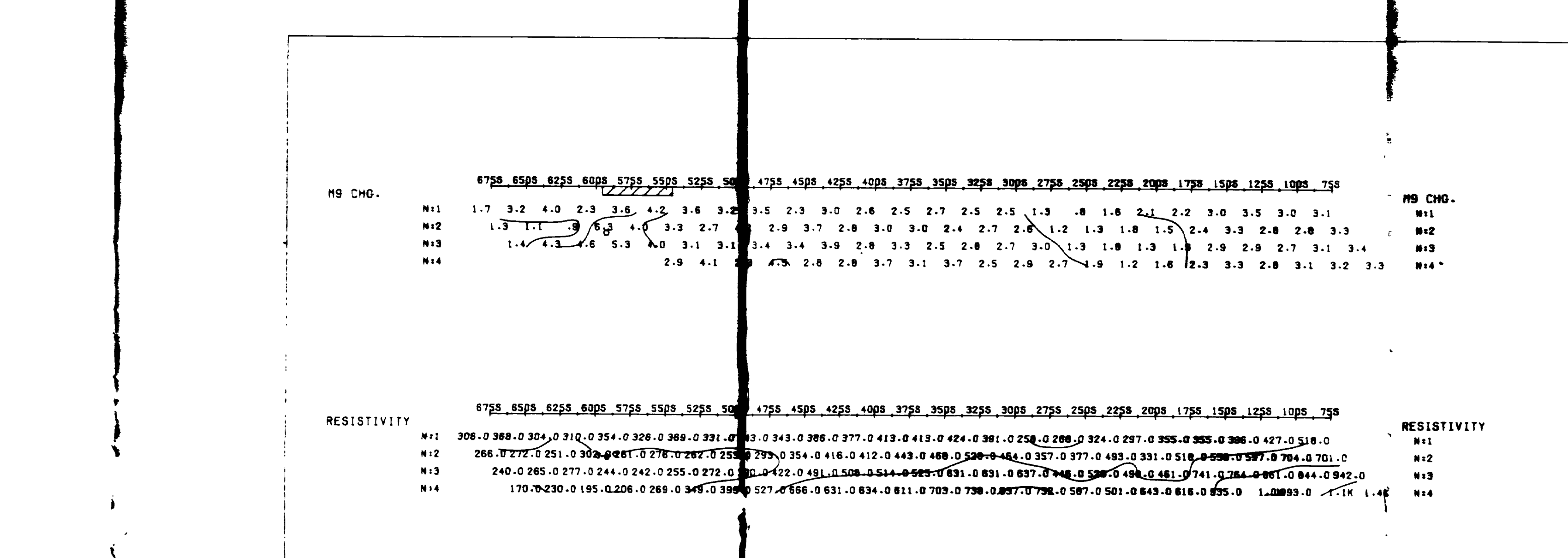
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 TRANSMITTER SCHEMATIC T90-3 30VA
 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID B PROPERTY
 BRISTOL TOWNSHIP

DATE : SEPT. 1995 REF : R278-B

SCALE = 1 : 2500

RAYAN EXPLORATION LTD.



LINE : 1100 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

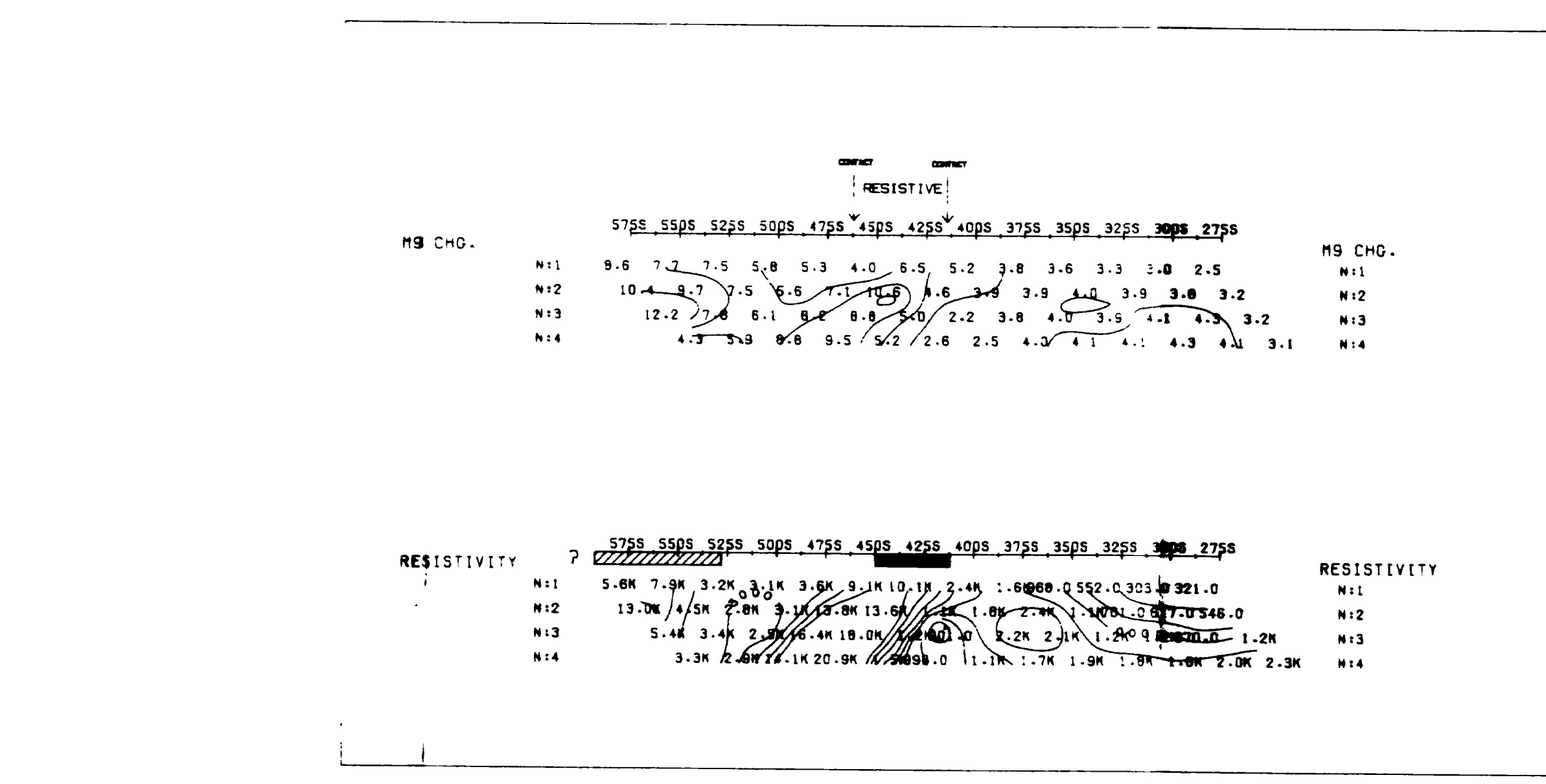
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POIRIER OPAP 1995
 GRID A PROPERTY
 BRISTOL TOWNSHIP

DATE : AUG/95 REF : RJM

SCALE = 1 : 2500

RAYAN EXPLORATION LIMITED



LINE : 400 W

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

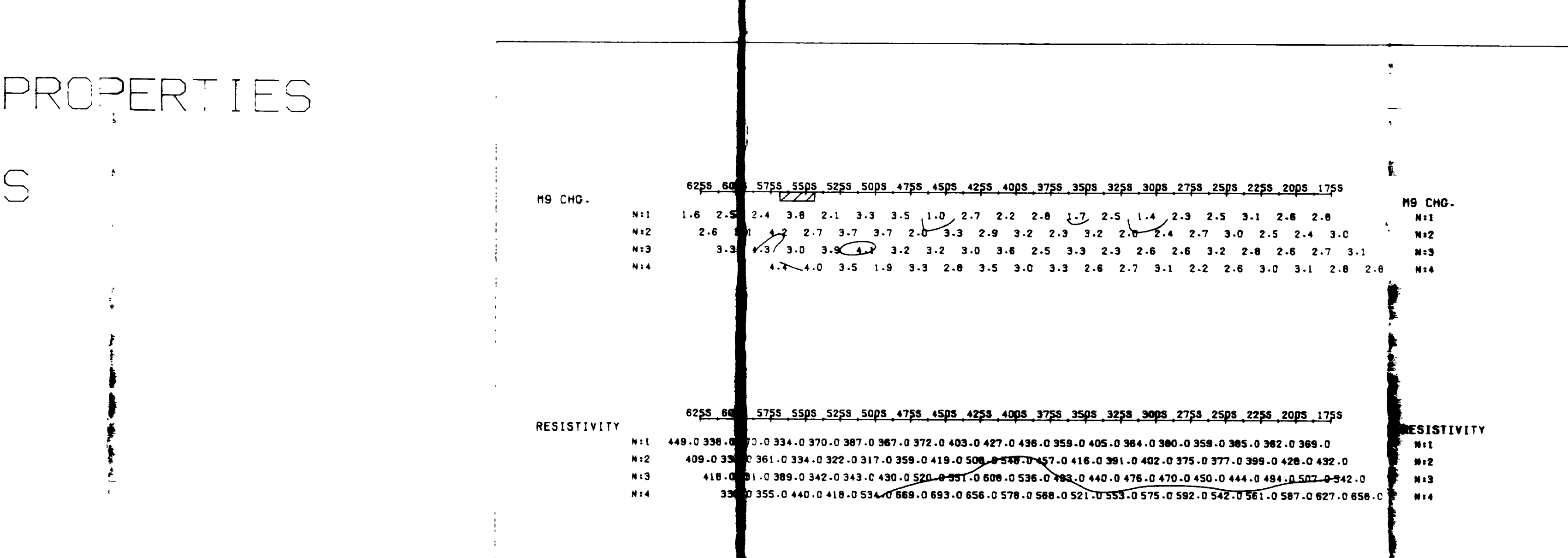
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POIRIER OPAP 1995
 GRID B PROPERTY
 BRISTOL TOWNSHIP

DATE : SEPT. 1995 REF : R278-B

SCALE = 1 : 2500

RAYAN EXPLORATION LTD.



LINE : 1200 E

INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY

RECEIVER SCHEMATIC 198-12 TIME DOMAIN
 RECEIVER TYPING: 2 sec ON 2 sec OFF
 TRANSMITTER SCHEMATIC T90-3 30VA
 SLICE TYPING: 310-MS 40
 PLATTED WINDOW: SLICE 40

POIRIER OPAP 1995
 GRID A PROPERTY
 BRISTOL TOWNSHIP

DATE : AUG/95 REF : RJM

SCALE = 1 : 2500

RAYAN EXPLORATION LIMITED

R. POIRIER
 OPAP 1995
 BRISTOL TWP. PROPERTIES
 PSEUDOSECTIONS
 PLATE 1-1
 SCALE 1:2500

RECEIVED
 OCT-6 1995
 MINING LANDS DIVISION

2-16285