

LOGISTICAL and GEOPHYSICAL REPORT

2. 25458

INDUCED POLARIZATION SURVEY

OPIKEIGAN LAKE PROJECT

**51°37'N, 88°10'W
Fort Hope Area, N.T.S. 52P/9
NW Ontario, Canada**

for

TNR Resources Ltd

Vancouver, B.C.

Canada

Survey by

SJ GEOPHYSICS LTD.

Report by

S.J.V. CONSULTANTS LTD.

E. Trent Pezzot, Geophysicist.

Chris Basil, Project Coordinator

April 2003

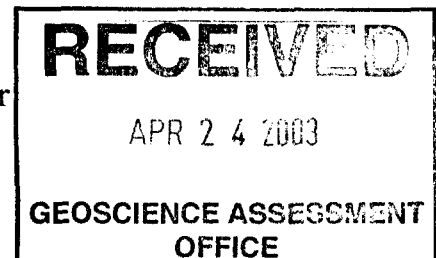


TABLE OF CONTENTS

1	SUMMARY	1
2	INTRODUCTION.....	1
3	CLAIMS	1
4	FIELD WORK AND INSTRUMENTATION	2
5	GEOPHYSICAL TECHNIQUES.....	3
	5.1 IP Method	3
	5.2 Inversion Programs	4
6	DATA PROCESSING AND PRESENTATION.....	4
	6.1 Data Listings.....	5
	6.2 Pseudosections.....	5
	6.3 Inverted Depthsections	5
7	DISCUSSION OF RESULTS.....	6
8	APPENDIX 1 – STATEMENT OF QUALIFICATIONS – E. TRENT PEZZOT.....	7
9	APPENDIX 2 CLAIM INFORMATION.....	8
10	APPENDIX 3 IP PSEUDOSECTIONS AND DEPTHSECTIONS	11
	10.1 Line 5000W Resistivity	11
	10.2 Line 5000W Chargeability	12
	10.3 Line 5100W Resistivity	13
	10.4 Line 5100W Chargeability	14
	10.5 Line 5200W Resistivity	15
	10.6 Line 5200W Chargeability	16
	10.7 Line 5300W Resistivity	17

10.8 Line 5300W Chargeability 18

10.9 Line 5400W Resistivity 19

10.10 Line 5400W Chargeability 20

10.11 Line 5500W Resistivity 21

10.12 Line 5500W Chargeability 22

11 APPENDIX 4: INSTRUMENT SPECIFICATIONS..... 23

11.1 GDD Tx II IP Transmitter 23

11.2 IRIS VIP-3000 IP Transmitter 23

11.3 Scintrex IPR-12 24

11.4 IPR-12 TIMING SLICES..... 26

12 APPENDIX 5 IP DATA LISTINGS..... 29

List of Figures:- These maps are located in Appendix 2 .

Figure 1	Claim Map
Figure 2	Survey Grid Location Map

1 SUMMARY

SJ Geophysics Ltd. conducted an Induced Polarization survey from February 15 through March 15, 2003 on behalf of TNR Resources Ltd. Resistivity and IP measurements were taken on approximately 10 kilometres of grid in the Rond Lake area, 15 kms NW of the community of Fort Hope. The purpose of the survey was to examine the mineralization associated with zone OL12 at a greater depth than previous IP surveys and to gain a geophysical signature of the California Vein and Fort Hope Gold Mine to the south. The survey was successful in both regards.

2 INTRODUCTION

This report describes geophysical work carried out from February 15 through March 15, 2003. It is intended to be submitted as an assessment report to the Ontario government as supporting evidence of work completed on the Opikigan Lake Property

This report includes pseudosection plots and interpreted depthsection plots of both the resistivity and chargeability component data. It is written as a logistics report only and thus a comprehensive description of geology, previous exploration work and the interpretation of these results are treated only briefly, or not included.

3 CLAIMS

The geophysical survey was completed over a portion of a 159 unit claim package that has been optioned by TNR Resources Ltd. This claim package is collectively referred to as the Opikigan Lake Property. Appendix 2 of this report contains:

- A complete listing of the claims and ownership.
- Figure 1: Claim map
- Figure 2: Geophysical Survey Grid Location Map that positions the survey grid with respect to the claims.

4 FIELD WORK AND INSTRUMENTATION

The geophysical surveys were conducted from February 15, 2003 to March 15, 2003, which included 8 mob-demob days, 1 stand-by day and 19 production days. The geophysical crew consisted of:

- Jan Dobrescu: Geophysicist
- Geoff Gautreau: Geophysicist
- Adrian Smallwood: Geophysical Technician and Grid Emplacement Foreman
- John Wilkinson: Geophysical Technician
- Eabametoong First Nations Crew: Technicians

The exploration crew mobilized from Vancouver, B.C. to Pickle Lake Ontario where snow machines could be rented and flights into Fort Hope arranged. Accommodation for the survey team in Fort Hope was at the Eabamet Construction camp. In addition, local First Nations authorities assisted in lining up additional crew and snow machines for both the line-cutting and geophysical work.

The survey grid was accessed by snow machine from Fort Hope. Approximately 6 crew days were required to position and cut the survey grid which consisted of 6 north-south lines (5000W to 5500W), nominally spaced at 100 metre intervals and varying in length from 700m to 2000m. Stations were picketed at 25 metre increments along each line. Further cutting, where needed was carried out concurrent with the geophysical survey.

Survey conditions were moderate to difficult due to snowdrifts in areas and extreme (-40) temperatures, however acceptable contacts and currents were achieved.

A discussion of the geophysical methods used on this survey is included in Section 5."Geophysical Techniques."

The IP data was collected with a Scintrex IPR-12 receiver and used two transmitters, an Iris VIP 3000 and a GDD Tx II. Specifications for these instruments are included as Appendix 4. Lines were surveyed with an expanding pole-dipole technique, using 8 dipoles spaced at 25, 50, 50, 50, 50, 100, 100 and 100 metre intervals to provide reasonable near surface definition and depth of investigation.

The infinity electrode for lines 5000W, 5100W and 5200W was located at UTM coordinates 0426846 E, 5718811 N and elevation 263m.

The infinity electrode for lines 5300W, 5400W and 5500W was located at UTM coordinates 0426580 E, 5718845 N and elevation 288m.

5 GEOPHYSICAL TECHNIQUES

5.1 IP Method

The time domain IP technique energizes the ground surface with an alternating square wave pulse via a pair of current electrodes. On most surveys, such as this one, the IP/Resistivity measurements are made on a regular grid of stations along survey lines.

After the transmitter (Tx) pulse has been transmitted into the ground via the current electrodes, the IP effect is measured as a time diminishing voltage at the receiver electrodes. The IP effect is a measure of the amount of IP polarizable materials in the subsurface rock. Under ideal circumstances, IP chargeability responses are a measure of the amount of disseminated metallic sulfides in the subsurface rocks.

Unfortunately, there are other rock materials that give rise to IP effects, including some graphitic rocks, clays and some metamorphic rocks (serpentinite for example) so, that from a geological point of view, IP responses are almost never uniquely interpretable. Because of the non-uniqueness of geophysical measurements it is always prudent to incorporate other data sets to assist in interpretation.

Also, from the IP measurements the apparent (bulk) resistivity of the ground is calculated from the input current and the measured primary voltage.

IP/Resistivity measurements are generally considered to be repeatable within about five percent. However, they will exceed that if field conditions change due to variable water content or variable electrode contact.

IP/Resistivity measurements are influenced, to a large degree, by the rock materials nearest the surface (or, more precisely, nearest the measuring electrodes), and the interpretation of the traditional pseudosection presentation of IP data in the past have often been uncertain. This is because stronger responses that are located near surface could mask a weaker one that is located at depth.

5.2 Inversion Programs

“Inversion” programs have recently become available that allow a more definitive interpretation, although the process remains subjective.

The purpose of the inversion process is to convert surface IP/Resistivity measurements into a realistic “Interpreted Depth Section.” The use of the inversion routine is a subjective one because the input calls for a number of user selectable variables whose adjustment can greatly influence the output. The output from the inversion routines assist in providing a more reliable interpretation of IP/Resistivity data.

The inversion programs are generally applied iteratively to, 1) evaluate the output with regard to what is geologically known, 2) to estimate the depth of detection, and 3) to determine the viability of specific measurements.

The Inversion Program (DCINV2D) used by the SJ Geophysical Group was developed by a consortium of major mining companies under the auspices of the UBC-Geophysical Inversion Facility. It solves two inverse problems. The DC potentials are first inverted to recover the spatial distribution of electrical resistivities, and, secondly, the chargeability data (IP) are inverted to recover the spatial distribution of IP polarizable particles in the rocks.

The Interpreted Depth Section maps represent the cross sectional distribution of polarizable materials, in the case of IP effect, and the cross sectional distribution of the apparent resistivities, in the case of the resistivity parameter.

6 DATA PROCESSING AND PRESENTATION

The geophysical data was digitally recorded in the IPR-12 receiver and downloaded into a computer database at the end of each day. Processing through proprietary software merged the geophysical data, which is registered to the local grid line and station values, with topographic survey controls to re-map the data into the NAD 27, Zone 16 NTS coordinate system.

The calculation of the apparent resistivity was adjusted for topography and appropriate geometric factors for the arrays used. Voltage decay curves were examined for each recorded measurement. Noisy or “bad” decays were flagged and either deleted or assigned high error limits to minimize their effects in the inversion process.

The geophysical data from this survey is presented in the formats indicated below.

6.1 Data Listings

Appendix 5 contains a listing of the IP data, showing the current and potential electrode locations with respect to both line and station values and UTM coordinates, along with all of the recorded and calculated IP measurements.

6.2 Pseudosections

Appendix 3 contains pseudosections displaying the apparent resistivity and chargeability data for each surveyed line. These sections are presented in false colour contour format with customized colour bars for each line to highlight the range of measurements observed.

6.3 Inverted Depthsections

Appendix 3 also contains results from the 2D inversions, presented as false colour contour format depthsections. These plots show one possible interpretation of the cross sectional distribution of resistivities (Resistivity Model) and polarizable materials (Chargeability Model) that could produce the observed data. These sections are presented with a standardized colour distribution (100 to 10,000 ohm-metres resistivity and 0 to 60 milliseconds chargeability) to facilitate a line-to-line comparison of the data

7 DISCUSSION OF RESULTS

In spite of extreme winter conditions, good electrical contact to the ground was established and the high quality data was recorded across the entire survey grid.

Pseudosection and interpreted Depthsection plots of the resistivity and chargeability data are provided in Appendix 3.

The IP survey on the Opikeigan Lake property delineated a distinct E-NE resistivity low feature in the area of the previously drilled Zone OL12. This resistivity low feature is interpreted to be 50-100 meters wide and steeply dipping (subvertical). It extends beyond the grid from 500S on Line 5000W through 800S on Line 5400W.

Coincident with the above feature is a broad (up to 300 meters wide), deeply extending (up to 300+ meters) and strong chargeability anomaly. On Lines 5000W, 5100W and 5200W the high chargeabilities interpreted nearer surface flank the resistivity low feature. At depth and on Lines 5300W and 5400W the high chargeability anomaly and resistivity low appear coincident.

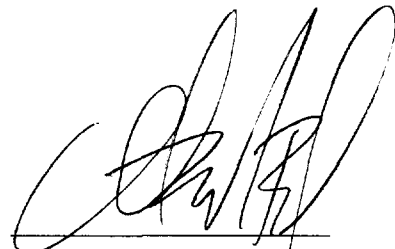
To the south on the grid, in the area of the old Fort Hope Gold Mine, a second, moderate chargeability anomaly was delineated on Lines 5300W, 5400W and 5500W from 1750S to 1850S, with no associated resistivity low.

Respectfully submitted,

Per S.J.V. Consultants Ltd.



E. Trent Pezzot, B.Sc., P.Geo,
Geophysics, Geology



Chris Basil
Project Coordinator

8 APPENDIX 1 – STATEMENT OF QUALIFICATIONS – E. TRENT PEZZOT

I, E. Trent Pezzot, of the city of Surrey, Province of British Columbia, hereby certify that:

- 1) I graduated from the University of British Columbia in 1974 with a B.Sc. degree in the combined Honours Geology and Geophysics program.
- 2) I have practised my profession continuously from that date.
- 3) I am a registered member of the Association of Professional Engineers and Geoscientists of British Columbia.
- 4) I have no interest in TNR Resources Ltd. any of their subsidiaries or related companies, nor do I expect to receive any.

Signed by: _____

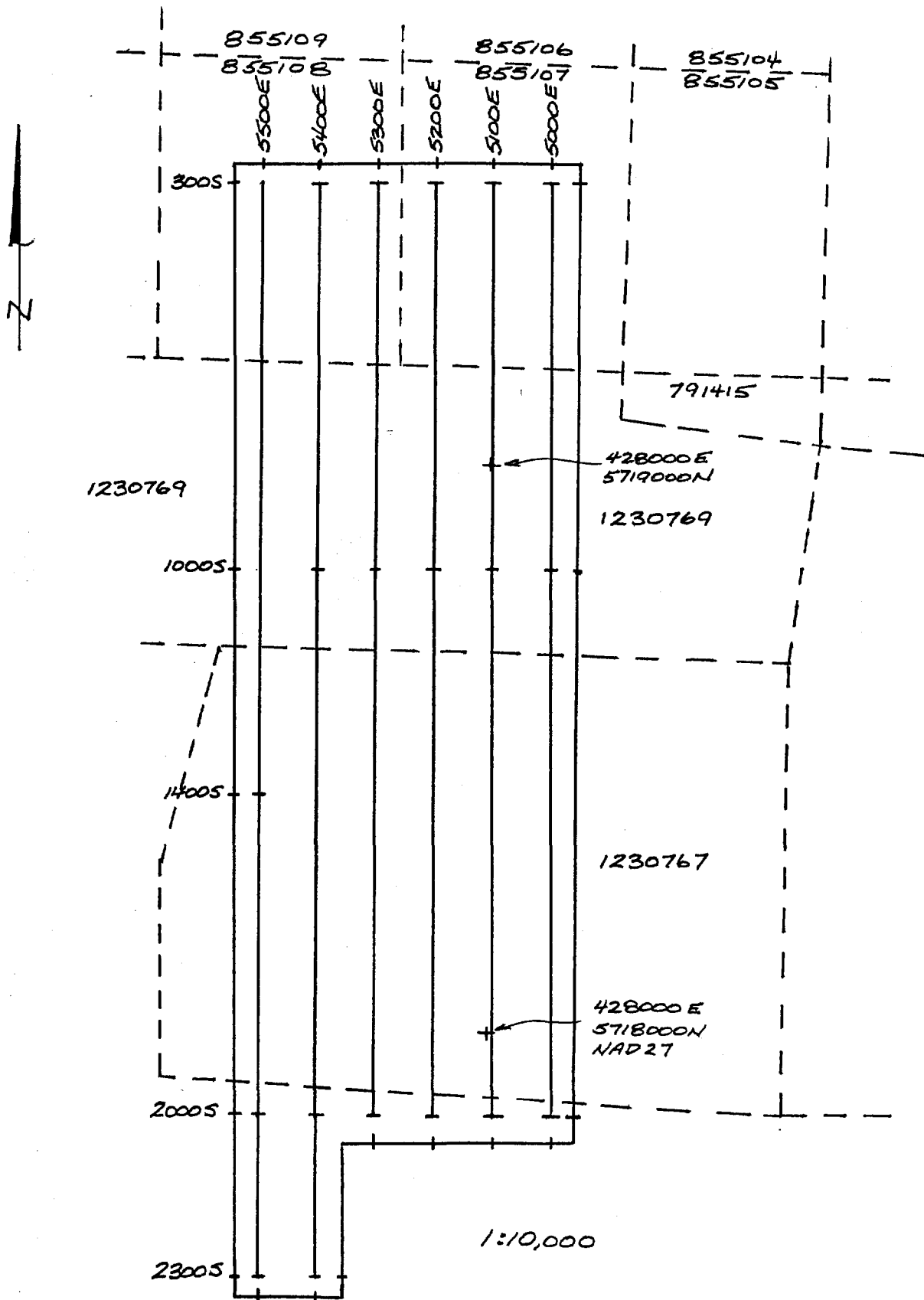


E. Trent Pezzot, B.Sc., P.Geo.

Geophysicist/Geologist

TNR RESOURCES LTD.
Opikeigan Lake 2003 Induced Polarization
Survey Location

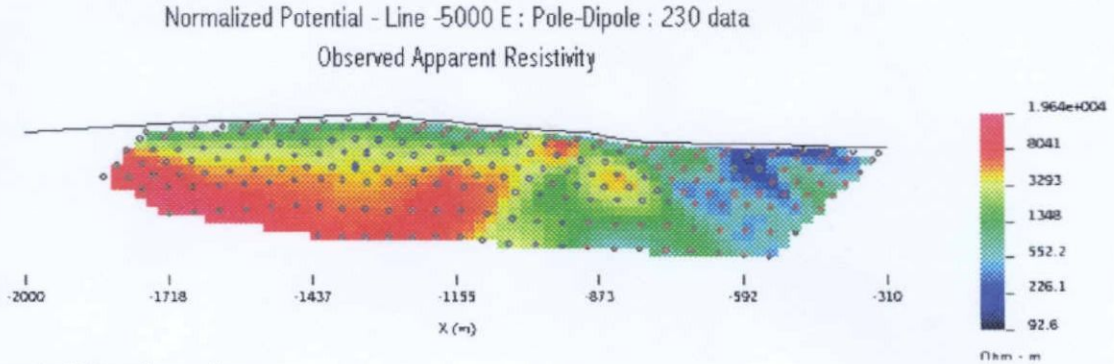
FIGURE 2



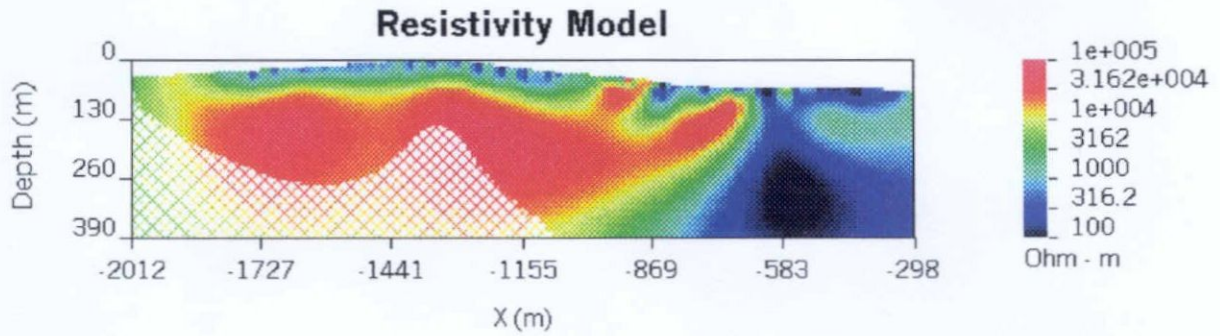
10 APPENDIX 3 IP PSEUDOSECTIONS AND DEPTHSECTIONS

10.1 Line 5000W Resistivity

Pseudosection

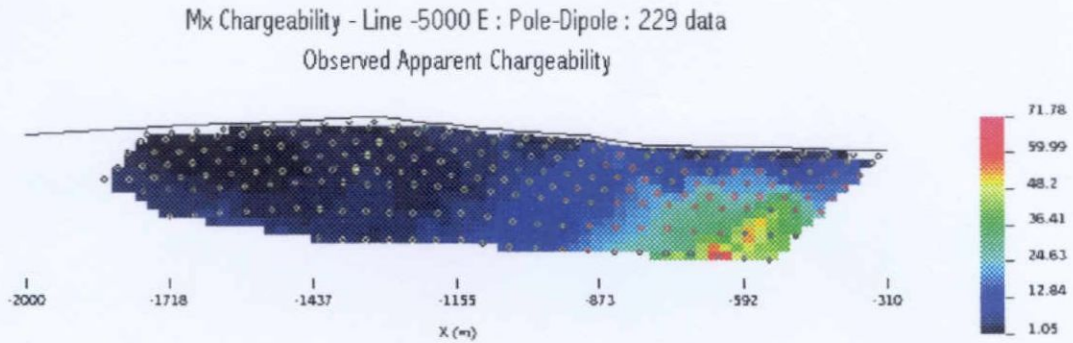


Interpreted Depthsection

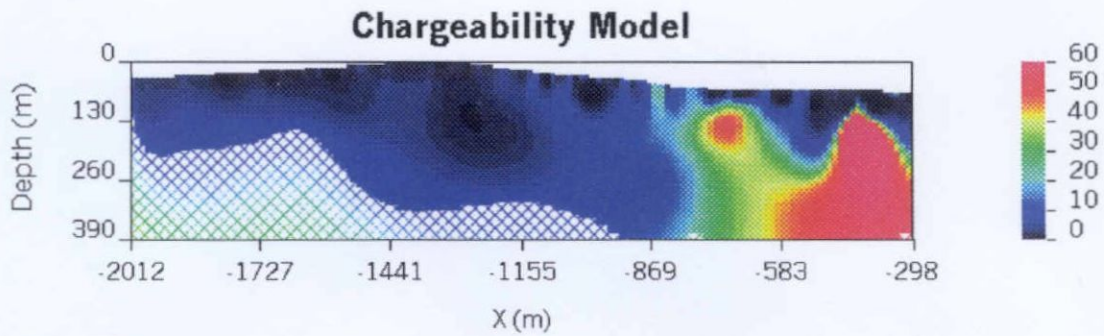


10.2 Line 5000W Chargeability

Pseudosection



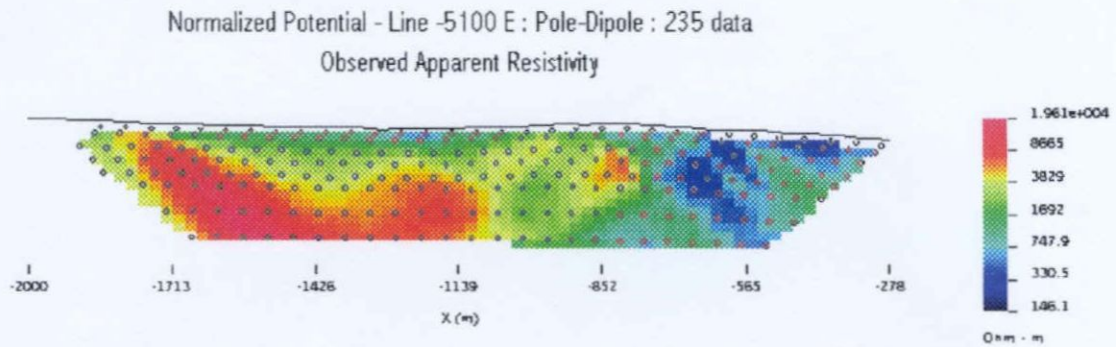
Interpreted Depthsection



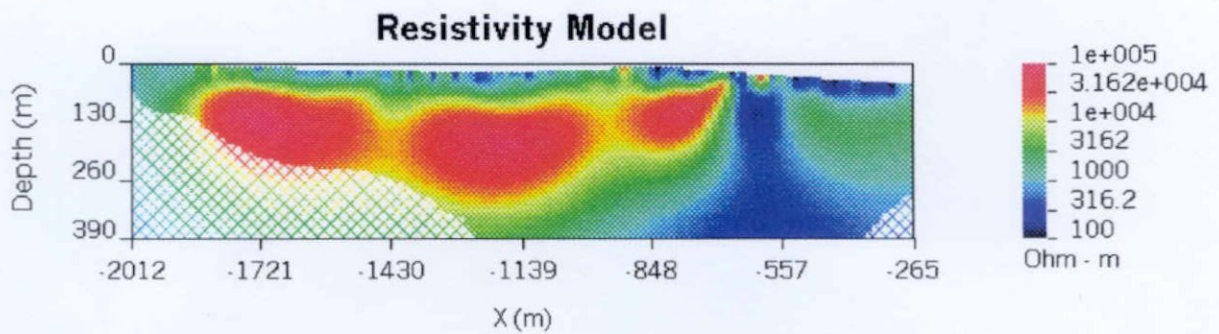
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10.3 Line 5100W Resistivity

Pseudosection

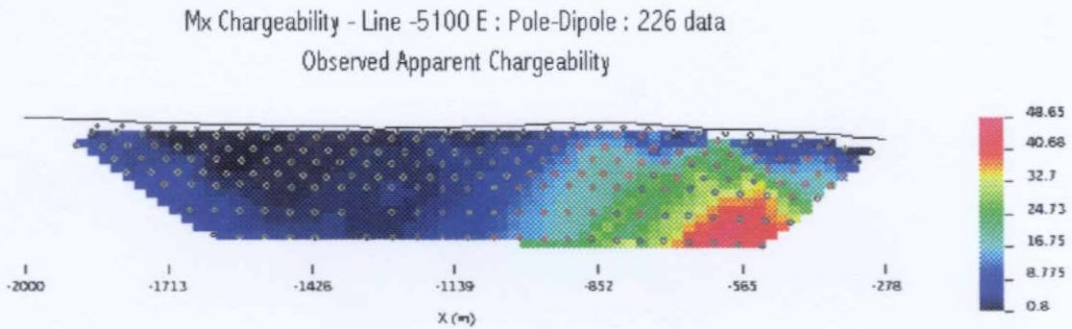


Interpreted Depthsection

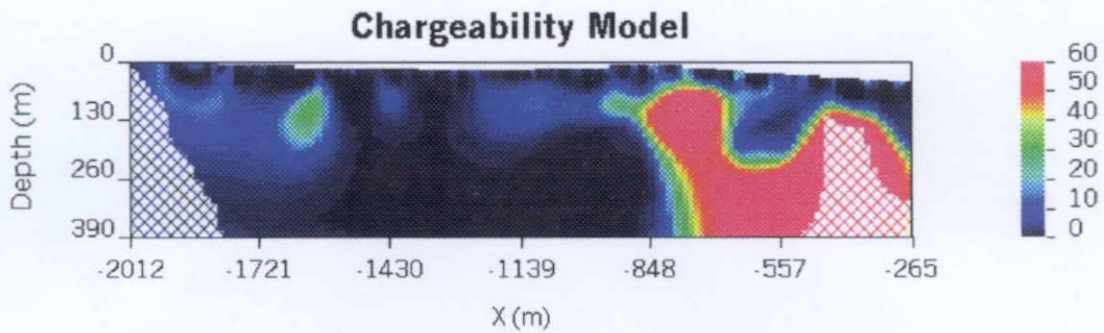


10.4 Line 5100W Chargeability

Pseudosection

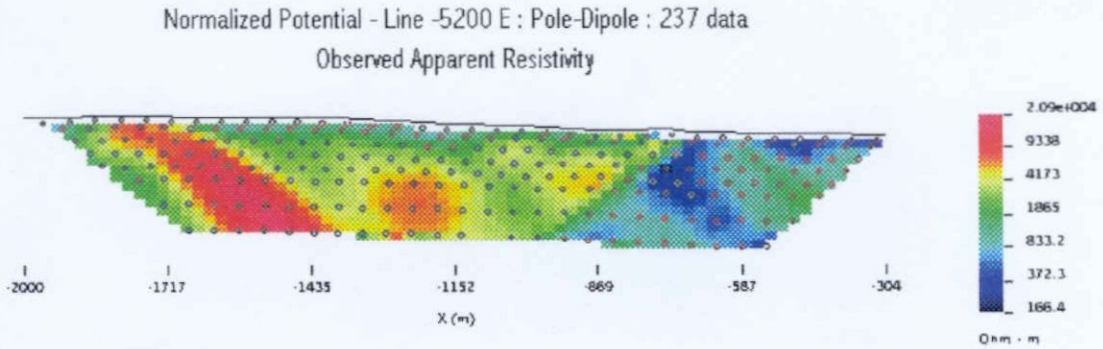


Interpreted Depthsection

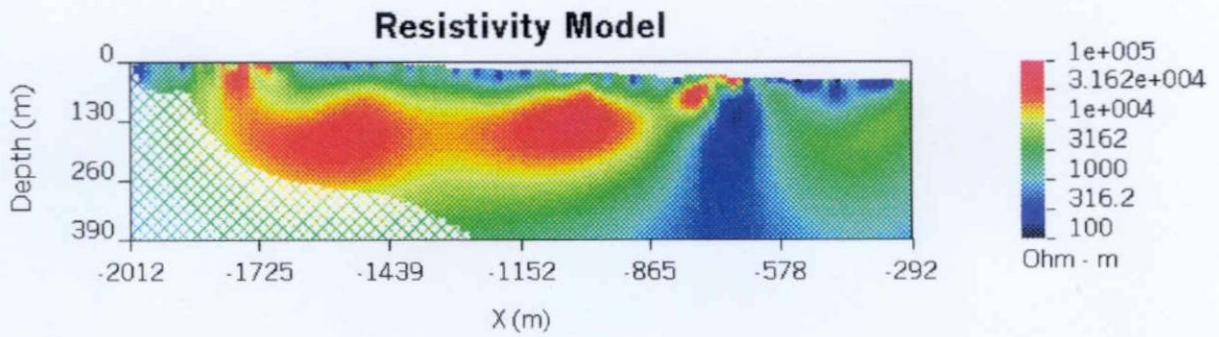


10.5 Line 5200W Resistivity

Pseudosection

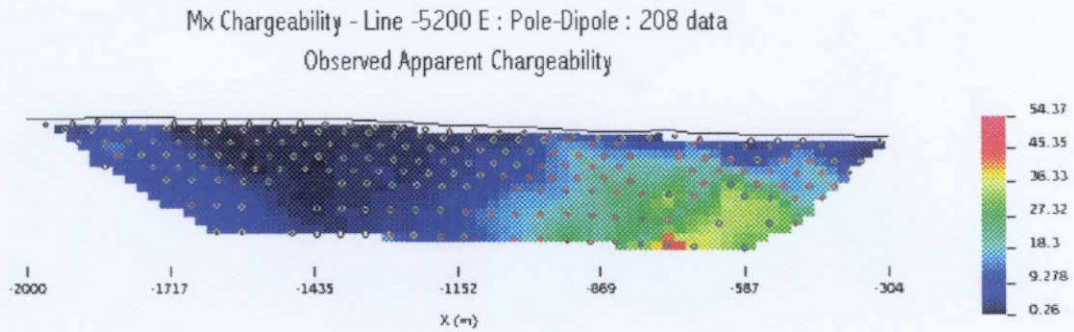


Interpreted Depthsection

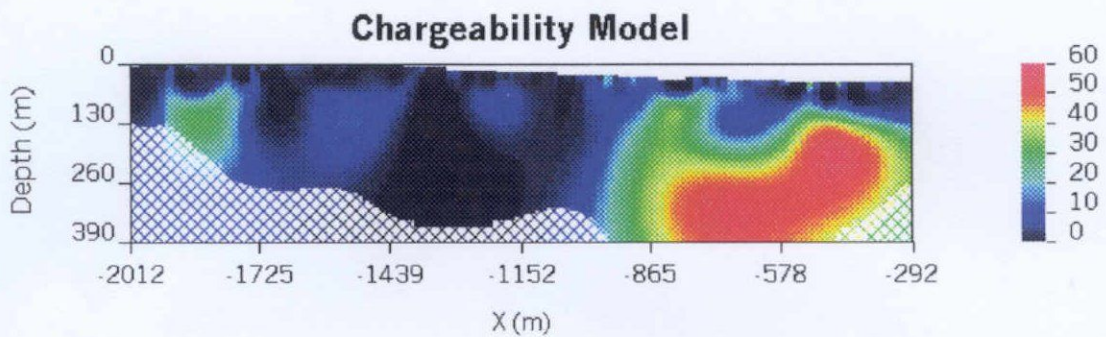


10.6 Line 5200W Chargeability

Pseudosection

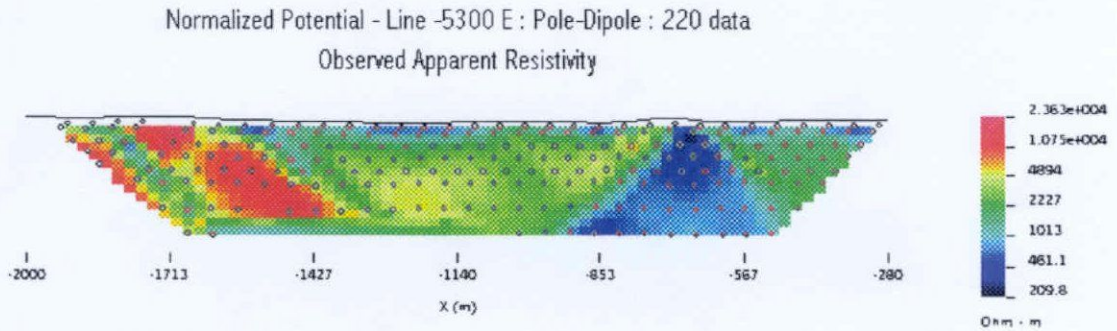


Interpreted Depthsection

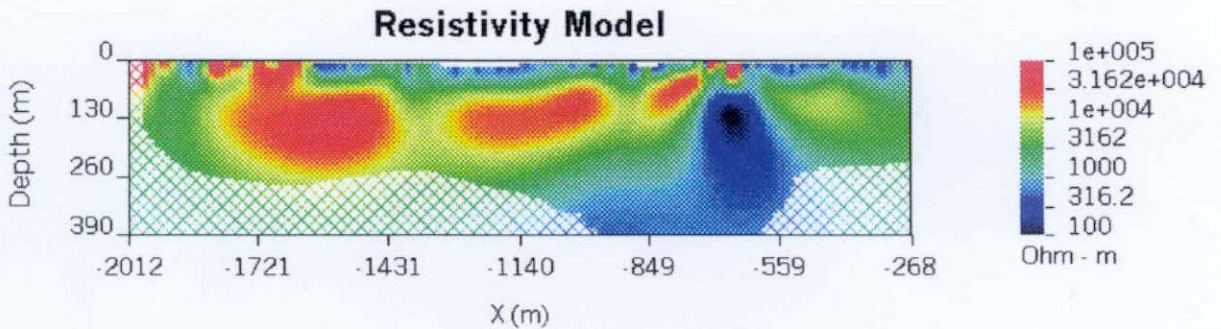


10.7 Line 5300W Resistivity

Pseudosection



Interpreted Depthsection

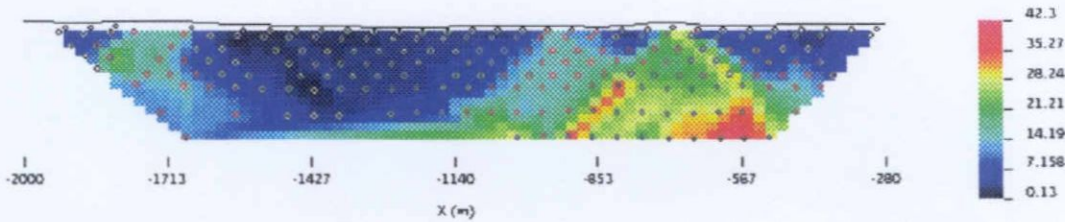


10.8 Line 5300W Chargeability

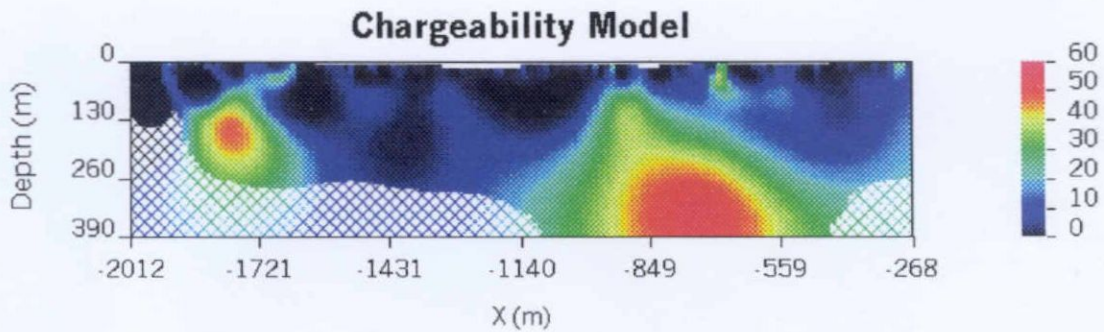
Pseudosection

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Mx Chargeability - Line -5300 E : Pole-Dipole : 202 data
Observed Apparent Chargeability



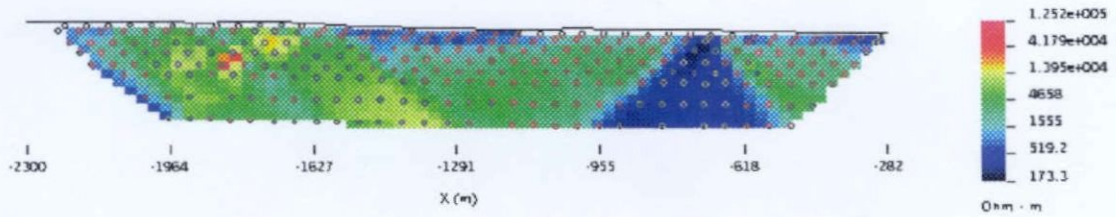
Interpreted Depthsection



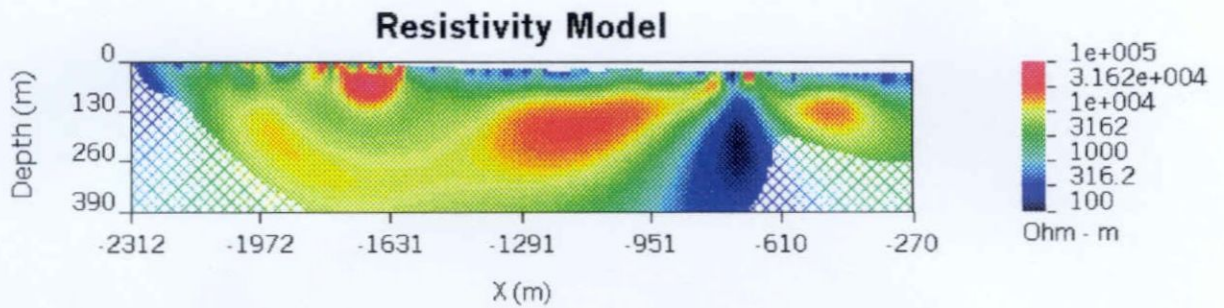
10.9 Line 5400W Resistivity

Pseudosection

Normalized Potential - Line -5400 E : Pole-Dipole : 281 data
Observed Apparent Resistivity

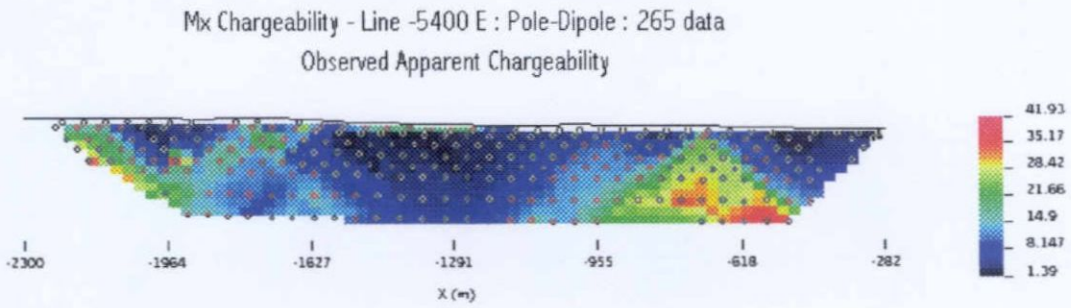


Interpreted Depthsection

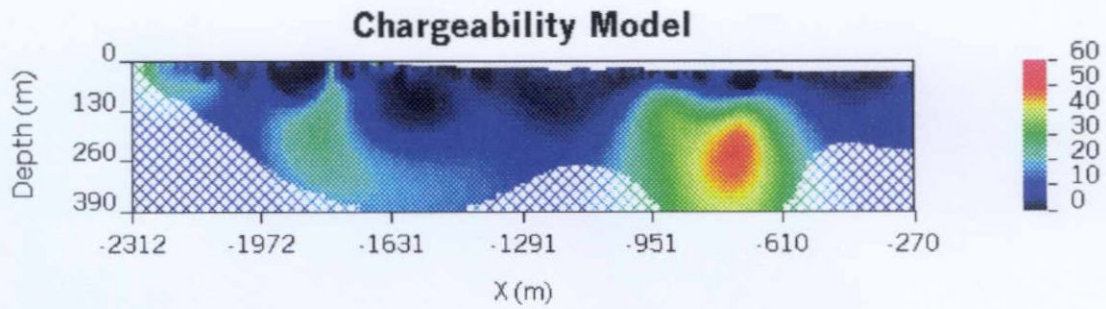


10.10 Line 5400W Chargeability

Pseudosection



Interpreted Depthsection

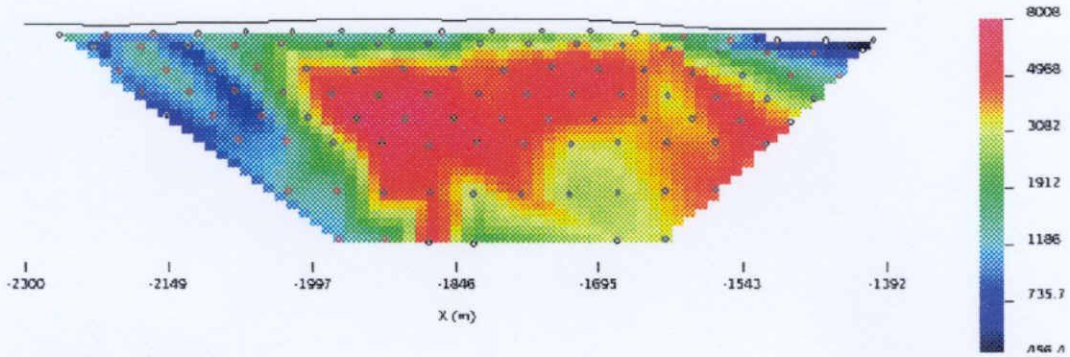


10.11 Line 5500W Resistivity

Pseudosection

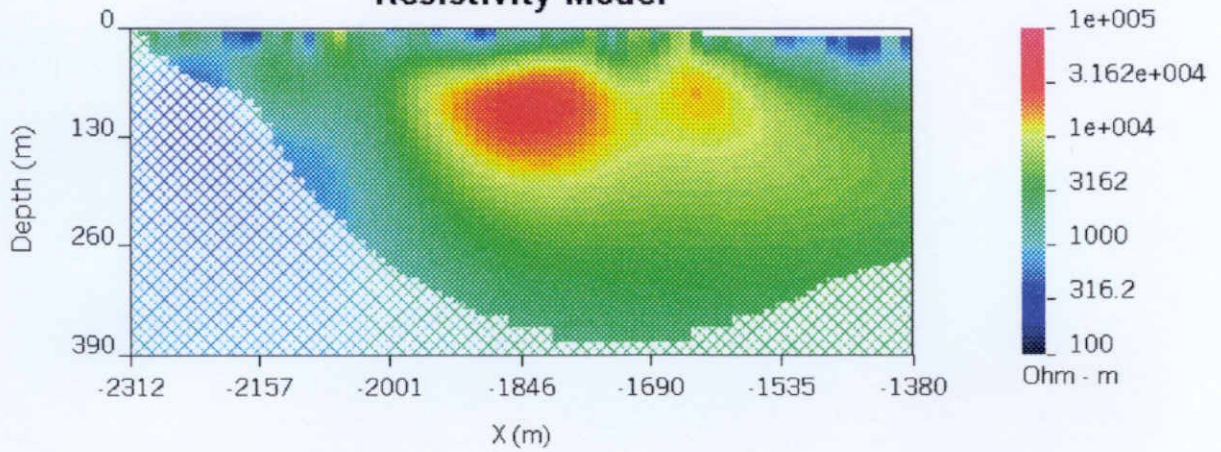
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Normalized Potential - Line -5500 E : Pole-Dipole : 108 data
Observed Apparent Resistivity



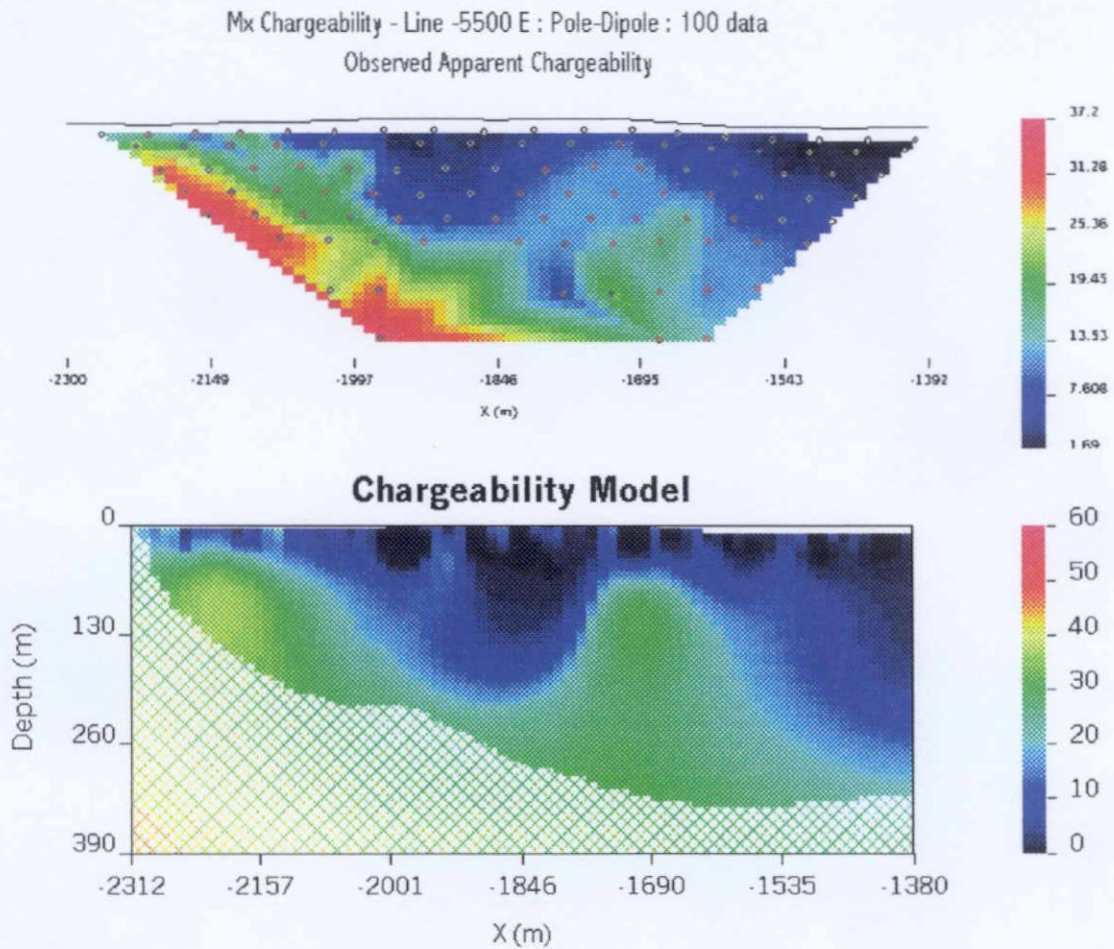
Interpreted Depthsection

Resistivity Model



10.12 Line 5500W Chargeability

Pseudosection



11 APPENDIX 4: INSTRUMENT SPECIFICATIONS

11.1 GDD Tx II IP Transmitter

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	1.4 kW maximum.
Output voltage:	150 to 2000 Volts
Output current:	5 ma to 10Amperes
Time domain:	Transmission cycle is 2 seconds ON, 2 seconds OFF
Operating temp. range	-40 ⁰ to +65 ⁰ C
Display	Digital LCD read to 0.001A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	20kg.

11.2 IRIS VIP-3000 IP Transmitter

Output Ratings

Output power:	3000 VA maximum.
Output voltage:	3000V maximum, auto voltage range selection.
Output current:	20 ma to 5A, current regulated to better than 1 %.
Dipoles:	9, push button selected.
Output connectors:	Uniclip connectors accept bare wire or plug of up to 4 mm diameter.
Waveforms:	see figure 4.1.
Fall times:	better than 1 msec in resistive load.
Time domain:	preprogrammed on and off times from 0.25 to 8 seconds, by factor of 2. Other cycles programmable by user. Automatic circuit opening in off time.
Frequency domain:	Preprogrammed frequencies from 0.0625 Hz to 4Hz, by factor of 2. Alternate or simultaneous transmission of two frequencies. Other frequencies programmable by user.
Time and frequency stability:	0.01 % 1 PPB optional

Other

Display:	Alphanumeric liquid crystal display.
Power source:	175 to 270 VAC, 45-450 Hz, single phase.
Operating temperature:	-40 to +50o C.
Protection:	short circuit at 20 Ω ,

open loop at 60 000 Ω ,
thermal,
input overvoltage and undervoltage.
Remote control: full duplex RS232C, 300-19 200 bps.
Dimensions (h w d): 410 x 320 x 240 m
Weight: 16kg.

11.3 Scintrex IPR-12

Inputs: Multiple inputs, allowing from one to eight simultaneous dipole measurements. Nine binding posts mounted in a single row for easy reversal of the connection of the dipole array.

Input Impedance: 16M Ω

Input Voltage Range: 50 μ V to 14V

Sum Vp2.. Vp8: 14V

SP Bucking Range: \pm 10V. Automatic, linear slope correction operating on a cycle by cycle basis.

Chargeability Range: 0 to 300mV/V

Tau Range: 2⁻¹⁴ to 2¹¹s

Reading Resolution of Vp, SP and M: Vp - 10 μ V, SP - 1mV, M - 0.01mV/V

Absolute Accuracy: Better than 1%

Common Mode Rejection: >100db

Vp Integration Time: 10% to 80% of the current on time.

IP 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 in the Measurement and Calculation section. An additional transient slice of minimum 10ms width, and 10ms steps, with delay of at least 40ms is keyboard selectable.

User Selectable IP Transient Program:	The user is allowed to program the transient slice, widths of up to 14 slices. The minimum slice width is 10ms and initial delay cannot be less than 40ms. The user can choose to program less than 14 slices, however, the remaining slices must be initialized with 0ms. Programmed slices must be contiguous.
Transmitter Timing:	Equal on and off times with polarity reversal each half cycle. On/Off times keyboard selectable at 1, 2, 4, 8, 16, 32 s. Timing accuracy of transmitter better than ± 100 ppm required.
External Circuit Test:	All dipoles are measured individually in sequence, using a 10HZ square wave. Range is 0 to 2 M Ω with 0.1k Ω resolution. The resistance is displayed on the LCD and is also recorded.
Synchronization:	Self synchronizes on the signal received at a keyboard selected dipole. Time limited to avoid mistrigging.
Filtering.	RF filter, anti-aliasing filter, 10Hz 6 pole lowpass filter, statistical noise spike removal, linear drift correction, operating on a cycle by cycle basis.
Internal Test Generator.	SP = 1200mV, V _p = 807mV, M = 30.28mV/V
Analog Meter:	For monitoring input signals; switchable to any dipole via keyboard
Keyboard:	17 key keypad with direct access to the most frequently used functions.
Display:	16 line by 40 characters, 240 x 128 dot graphics liquid crystal display. Displays instrument status during and after the reading.
Display Heater:	Used in below -15°C operation. Thermostatically controlled. Requires separate rechargeable batteries for heater display only.
Memory Capacity:	Stores information for approximately 400 readings when 8 dipoles are used, more with fewer dipoles.
Real Time Clock:	Data is time stamped with year, month, day, hour, minute and second.
Digital Output:	Formatted serial data output to printer or computer etc. Data output in 7 or 8 bit ASCII, one start, stop bits, no parity format. Baud rate is keyboard selectable for standard rates between 300 baud and 57.6k Baud. Selectable carriage return delay to accommodate slow peripherals. Handshaking is done by X-on/X-off.
Standard Rechargeable Batteries:	Eight rechargeable Ni-Cad D cells. Supplied with a charger, suitable for 115/230V, 50 to 60Hz, 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.		
Field Wire Terminator:	Used to custom make cables for up to eight dipoles, using ordinary field wire.		
Optional Multi-Conductor Cable Adapter:	When installed on the binding posts, permits connection of the Multipole Potential Cables.		
Operating and Storage Temperature Range:	-30°C to +50°C	Dimensions:	Console; 355 x 270 x 165mm Charger; 120 x 95 x 55mm
Weight:	Console; 5.8kg Standard or Ancillary Rechargeable Batteries; 1.3kg Charger; 1.1 kg		

11.4 IPR-12 TIMING SLICES

Receive Time = 1 second

Slice	Width (ms)	Start End	Mid-Point	End
5	20	35	45.0	55
6	20	55	65.0	75
7	40	75	95.0	115
8	40	115	135.0	155
9	70	155	190.0	225
10	70	225	260.0	295
11	110	295	350.0	405
12	120	405	465.0	525
13	180	525	615.0	705
14	180	705	795.0	885

Receive Time = 2 second

Slice	Width (ms)	Start End	Mid-Point	End
4	20	50	60.0	70
5	40	70	90.0	110
6	40	110	130.0	150
7	80	150	190.0	230
8	80	230	270.0	310
9	140	310	380.0	450

10	140	450	520.0	590
11	230	590	705.0	820
12	230	820	935.0	1050
13	360	1050	1230.0	1410
14	360	1410	1590.0	1770

Receive Time = 4 second

Slice	Width (ms)	Start End	Mid-Point	End
2	20	40	50.0	60
3	40	60	80.0	100
4	40	100	120.0	140
5	80	140	180.0	220
6	80	220	260.0	300
7	160	300	380.0	460
8	160	460	540.0	620
9	280	620	760.0	900
10	280	900	1040.0	1180
11	460	1180	1410.0	1640
12	460	1640	1870.0	2100
13	720	2100	2460.0	2820
14	720	2820	3180.0	3540

Receive Time = 8 second

Slice	Width (ms)	Start End	Mid-Point	End
1	40	40	60.0	80
2	40	80	100.0	120
3	80	120	160.0	200
4	80	200	240.0	280
5	160	280	360.0	440
6	160	440	520.0	600
7	320	600	760.0	920
8	320	920	1080.0	1240
9	560	1240	1520.0	1800
10	560	1800	2080.0	2360
11	920	2360	2820.0	3280
12	920	3280	3740.0	4200
13	1440	4200	4920.0	5640
14	1440	5640	6360.0	7080

Receive Time = 16 second

Slice	Width (ms)	Start End	Mid-Point	End
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1	80	80	120.0	160
2	80	160	200.0	240
3	160	240	320.0	400
4	160	400	480.0	560
5	320	560	720.0	880
6	320	880	1040.0	1200
7	640	1200	1520.0	1840
8	640	1840	2160.0	2480
9	1120	2480	3040.0	3600
10	1120	3600	4160.0	4720
11	1840	4720	5640.0	6560
12	1840	6560	7480.0	8400
13	2880	8400	9840.0	11280
14	2880	11280	12720.0	14160

Receive Time = 32 second

Slice	Width (ms)	Start End	Mid-Point	End
1	1640	160	240.0	320
2	160	320	400.0	480
3	320	480	640.0	800
4	320	800	960.0	1120
5	640	1120	1440.0	1760
6	640	1760	2080.0	2400
7	1280	2400	3040.0	3680
8	1280	3680	4320.0	4960
9	2240	4960	6080.0	7200
10	2240	7200	8320.0	9440
11	3680	9440	11280.0	13120
12	3680	13120	14960.0	16800
13	5760	16800	19680.0	22560
14	5760	22560	25440.0	28320

LOGISTICAL and GEOPHYSICAL REPORT

APPENDIX 5: IP DATA LISTINGS

INDUCED POLARIZATION SURVEY

OPIKEIGAN LAKE PROJECT

51°37'N, 88°10'W

Fort Hope Area, N.T.S. 52P/9

NW Ontario, Canada

for

TNR Resources Ltd

Vancouver, B.C.

Canada

Survey by

SJ GEOPHYSICS LTD.

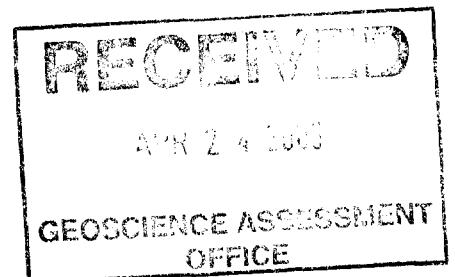
Report by

S. J. V. CONSULTANTS LTD.

E. Trent Pezzot, Geophysicist.

Chris Basil, Project Coordinator

April 2003



12 APPENDIX 5 IP DATA LISTINGS

C1,P1,P2 Position & Data IPR-12,MULTI-CHANNEL,IP-RECEIVER,V2.0 (C2 at infinity)

C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X	P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11
-5000.	-300.	428070.00	5719506.00	239.00	-5000.	-325.	428071.30	5719481.39	240.19	-5000.	-350.	428072.60	5719456.79	241.37	2994.25	2000.00	-63.00	129.90	470.00	464.12	0.00	1.05	57.70	4.49	3.57	2.95	2.39	1.93	1.53	1.23	0.98	0.77	0.61	0.49
-5000.	-300.	428070.00	5719506.00	239.00	-5000.	-350.	428072.60	5719456.79	241.37	-5000.	-400.	428075.20	5719407.57	243.75	2524.51	2000.00	-77.00	65.60	793.00	782.62	0.00	1.66	89.40	6.55	5.34	4.47	3.67	2.99	2.43	1.95	1.56	1.24	0.98	0.75
-5000.	-300.	428070.00	5719506.00	239.00	-5000.	-400.	428075.20	5719407.57	243.75	-5000.	-450.	428077.80	5719358.36	246.12	528.01	2000.00	-16.00	29.40	498.00	491.06	1.00	15.98	199.80	46.15	40.64	35.78	30.94	26.46	22.45	18.91	15.78	13.05	10.71	8.74
-5000.	-300.	428070.00	5719506.00	239.00	-5000.	-450.	428077.80	5719358.36	246.12	-5000.	-500.	428080.40	5719309.15	247.62	319.66	2000.00	166.00	52.90	603.00	595.02	0.50	18.20	230.00	53.08	46.80	41.13	35.48	30.37	25.69	21.56	17.94	14.82	12.08	9.81

-5000. -300. 428070.00 5719506.00 239.00 -5000. -500. 428080.40 5719309.15 247.62 -5000. -550. 428083.00
 5719259.97 248.24 341.00 2000.00 98.00 60.60 1071.00 1058.43 0.50 18.60 235.30 55.35 48.55
 42.55 36.62 31.14 26.30 22.03 18.31 15.04 12.27 9.96

-5000. -300. 428070.00 5719506.00 239.00 -5000. -550. 428083.00 5719259.97 248.24 -5000. -650. 428088.20
 5719161.60 249.50 357.16 2000.00 -103.00 55.30 982.00 969.14 1.00 23.68 282.90 68.87 60.60
 53.23 45.88 39.16 33.25 27.98 23.34 19.33 15.83 12.91

-5000. -300. 428070.00 5719506.00 239.00 -5000. -650. 428088.20 5719161.60 249.50 -5000. -750. 428093.40
 5719063.21 251.63 144.52 2000.00 -14.00 87.20 715.00 705.14 8.00 38.66 413.50 105.84 93.66
 82.68 71.65 61.27 52.82 44.99 38.41 32.20 26.67 22.13

-5000. -300. 428070.00 5719506.00 239.00 -5000. -750. 428093.40 5719063.21 251.63 -5000. -850. 428095.70
 5718964.02 260.03 47.80 2000.00 4.00 44.30 372.00 363.85 8.00 46.25 469.10 122.43 109.99
 97.76 85.38 72.88 63.05 53.69 46.15 38.52 32.17 26.66

-5000. -350. 428072.60 5719456.79 241.37 -5000. -375. 428073.90 5719432.18 242.56 -5000. -400. 428075.20
 5719407.57 243.75 1027.01 1000.00 -96.00 43.20 323.00 318.38 0.02 2.89 55.00 9.71 8.26 7.06
 5.96 4.97 4.15 3.40 2.79 2.27 1.83 1.45

-5000. -350. 428072.60 5719456.79 241.37 -5000. -400. 428075.20 5719407.57 243.75 -5000. -450. 428077.80
 5719358.36 246.12 443.43 1000.00 -20.00 29.10 279.00 274.93 1.00 13.09 166.70 38.03 33.46
 29.38 25.43 21.74 18.42 15.50 12.89 10.61 8.74 7.13

-5000. -350. 428072.60 5719456.79 241.37 -5000. -450. 428077.80 5719358.36 246.12 -5000. -500. 428080.40
 5719309.15 247.62 217.56 1000.00 140.00 52.10 410.00 404.93 0.50 16.99 216.20 49.55 43.73
 38.35 33.20 28.35 24.05 20.17 16.75 13.77 11.27 9.15

-5000. -350. 428072.60 5719456.79 241.37 -5000. -500. 428080.40 5719309.15 247.62 -5000. -550. 428083.00
 5719259.97 248.24 214.18 1000.00 87.00 59.90 807.00 797.54 0.50 17.78 226.00 53.01 46.53
 40.65 35.04 29.83 25.17 21.08 17.46 14.36 11.71 9.50

-5000. -350. 428072.60 5719456.79 241.37 -5000. -550. 428083.00 5719259.97 248.24 -5000. -600. 428085.60
 5719210.79 248.87 185.85 1000.00 -10.00 16.20 1168.00 1152.50 0.50 21.16 263.00 61.89 54.55
 47.78 41.34 35.30 29.88 25.07 20.82 17.15 14.04 11.42

-5000. -350. 428072.60 5719456.79 241.37 -5000. -600. 428085.60 5719210.79 248.87 -5000. -700. 428090.80
 5719112.40 251.00 72.09 1000.00 -253.00 18.30 396.00 390.82 1.00 34.39 385.30 97.79 87.36
 75.88 66.29 56.60 48.28 40.73 33.85 28.13 23.00 18.89

-5000. -350. 428072.60 5719456.79 241.37 -5000. -700. 428090.80 5719112.40 251.00 -5000. -800. 428096.00
 5719014.00 254.00 65.83 1000.00 203.00 33.00 651.00 642.12 4.00 40.83 428.30 111.82 99.88
 87.66 76.32 65.33 55.92 47.33 39.89 33.76 28.27 23.63

-5000. -350. 428072.60 5719456.79 241.37 -5000. -800. 428096.00 5719014.00 254.00 -5000. -900. 428095.40
 5718914.43 270.39 37.26 1000.00 -97.00 23.40 579.00 564.36 8.00 44.97 459.50 117.74 107.08
 93.63 83.44 71.82 62.10 53.15 44.64 37.24 30.86 25.57

-5000. -400. 428075.20 5719407.57 243.75 -5000. -425. 428076.50 5719382.97 244.93 -5000. -450. 428077.80
 5719358.36 246.12 154.33 200.00 -164.00 47.00 242.00 239.22 0.50 5.04 68.90 14.88 13.11
 11.49 9.91 8.46 7.13 5.95 4.95 4.08 3.32 2.71

-5000. -400. 428075.20 5719407.57 243.75 -5000. -450. 428077.80 5719358.36 246.12 -5000. -500. 428080.40
 5719309.15 247.62 97.43 200.00 68.00 52.70 306.00 302.18 2.00 9.50 122.30 26.33 23.52
 20.73 18.18 15.36 13.34 11.32 9.27 7.66 6.38 5.47

-5000. -400. 428075.20 5719407.57 243.75 -5000. -500. 428080.40 5719309.15 247.62 -5000. -550. 428083.00
 5719259.97 248.24 68.36 200.00 -8.00 59.80 644.00 636.09 4.00 12.94 164.50 35.82 31.88
 28.29 24.29 21.21 17.87 15.06 12.99 10.84 8.96 7.23

-5000. -400. 428075.20 5719407.57 243.75 -5000. -550. 428083.00 5719259.97 248.24 -5000. -600. 428085.60
 5719210.79 248.87 54.27 200.00 -28.00 15.30 1023.00 1009.14 8.00 17.16 214.90 46.29 41.18
 36.81 31.98 27.66 23.73 20.14 17.02 14.36 11.96 9.95

-5000. -400. 428075.20 5719407.57 243.75 -5000. -600. 428085.60 5719210.79 248.87 -5000. -650. 428088.20
 5719161.60 249.50 8.51 200.00 54.00 47.70 267.00 263.64 2048.00 38.63 558.00 84.69 76.52
 72.13 65.12 51.62 52.12 46.99 35.78 30.80 27.75 27.65

-5000. -400. 428075.20 5719407.57 243.75 -5000. -650. 428088.20 5719161.60 249.50 -5000. -750. 428093.40
 5719063.21 251.63 21.69 200.00 16.00 88.00 596.00 587.61 2048.00 45.66 602.50 100.54 89.32
 83.52 74.14 64.30 59.47 52.87 45.02 40.90 35.45 33.11

-5000. -400. 428075.20 5719407.57 243.75 -5000. -750. 428093.40 5719063.21 251.63 -5000. -850. 428095.70
 5718964.02 260.03 7.16 200.00 21.00 48.80 354.00 346.85 2048.00 58.11 672.40 129.27 113.80
 106.01 85.71 84.80 67.76 57.08 63.07 57.92 49.16 35.56

-5000. -400. 428075.20 5719407.57 243.75 -5000. -850. 428095.70 5718964.02 260.03 -5000. -950. 428095.10
 5718864.57 272.93 15.42 200.00 -449.00 12.70 1199.00 1173.27 2048.00 71.78 697.30 136.73 122.90
 117.62 106.69 96.21 89.92 82.15 72.94 68.05 60.13 56.54

-5000. -450. 428077.80 5719358.36 246.12 -5000. -475. 428079.10 5719333.76 246.87 -5000. -500. 428080.40
 5719309.15 247.62 605.14 1000.00 -74.00 123.70 190.00 187.44 0.00 3.01 71.20 10.57 8.99
 7.57 6.33 5.30 4.40 3.59 2.93 2.38 1.87 1.43

-5000. -450. 428077.80 5719358.36 246.12 -5000. -500. 428080.40 5719309.15 247.62 -5000. -550. 428083.00
5719259.97 248.24 700.57 1000.00 -9.00 60.60 440.00 434.20 0.02 4.77 90.00 15.81 13.54
11.64 9.89 8.30 6.89 5.67 4.63 3.74 3.00 2.38

-5000. -450. 428077.80 5719358.36 246.12 -5000. -550. 428083.00 5719259.97 248.24 -5000. -600. 428085.60
5719210.79 248.87 480.12 1000.00 -26.00 15.40 905.00 892.12 0.25 8.69 120.90 26.53 23.09
20.11 17.28 14.69 12.35 10.32 8.53 6.99 5.68 4.59

-5000. -450. 428077.80 5719358.36 246.12 -5000. -600. 428085.60 5719210.79 248.87 -5000. -650. 428088.20
5719161.60 249.50 62.83 1000.00 54.00 48.80 237.00 233.44 2.00 22.38 265.70 63.05 55.77
48.79 42.75 36.71 31.41 26.58 22.30 18.47 15.15 12.52

-5000. -450. 428077.80 5719358.36 246.12 -5000. -650. 428088.20 5719161.60 249.50 -5000. -700. 428090.80
5719112.40 251.00 70.81 1000.00 -95.00 52.70 445.00 438.16 1.00 25.63 302.40 73.68 64.86
56.55 49.48 42.48 36.17 30.53 25.54 21.04 17.19 13.93

-5000. -450. 428077.80 5719358.36 246.12 -5000. -700. 428090.80 5719112.40 251.00 -5000. -800. 428096.00
5719014.00 254.00 115.16 1000.00 127.00 35.10 633.00 623.73 2.00 29.71 337.50 84.51 74.68
65.25 57.15 49.07 41.88 35.38 29.62 24.43 19.98 16.23

-5000. -450. 428077.80 5719358.36 246.12 -5000. -800. 428096.00 5719014.00 254.00 -5000. -900. 428095.40
5718914.43 270.39 60.80 1000.00 -16.00 26.70 602.00 586.21 2.00 35.02 383.90 96.41 85.94
75.51 66.91 57.86 49.57 42.01 35.32 28.99 23.64 19.02

-5000. -450. 428077.80 5719358.36 246.12 -5000. -900. 428095.40 5718914.43 270.39 -5000. -1000.
428094.80 5718814.66 276.34 86.24 1000.00 87.00 3.10 1341.00 1315.39 2.00 33.43 370.20 92.58
82.51 72.15 64.13 55.37 47.52 40.23 33.82 27.65 22.44 17.95

-5000. -500. 428080.40 5719309.15 247.62 -5000. -525. 428081.70 5719284.56 247.93 -5000. -550. 428083.00
 5719259.97 248.24 576.77 800.00 -8.00 81.00 226.00 223.13 0.00 2.04 109.90 7.90 6.57 5.53
 4.59 3.76 3.04 2.45 1.92 1.50 1.18 0.91

-5000. -500. 428080.40 5719309.15 247.62 -5000. -550. 428083.00 5719259.97 248.24 -5000. -600. 428085.60
 5719210.79 248.87 674.37 800.00 -26.00 15.30 530.00 521.77 0.13 5.15 77.20 16.42 14.14
 12.23 10.42 8.80 7.35 6.09 5.01 4.11 3.33 2.69

-5000. -500. 428080.40 5719309.15 247.62 -5000. -600. 428085.60 5719210.79 248.87 -5000. -650. 428088.20
 5719161.60 249.50 69.07 800.00 57.00 49.30 163.00 160.32 4.00 18.88 230.00 52.73 46.65
 41.09 35.83 30.84 26.37 22.23 18.69 15.47 12.96 10.69

-5000. -500. 428080.40 5719309.15 247.62 -5000. -650. 428088.20 5719161.60 249.50 -5000. -700. 428090.80
 5719112.40 251.00 71.41 800.00 -99.00 53.30 337.00 331.32 1.00 22.09 266.40 63.80 56.19
 49.24 42.67 36.60 31.06 25.99 21.61 17.76 15.01 12.47

-5000. -500. 428080.40 5719309.15 247.62 -5000. -700. 428090.80 5719112.40 251.00 -5000. -750. 428093.40
 5719063.21 251.63 78.75 800.00 120.00 59.40 619.00 609.50 1.00 23.38 279.60 67.06 59.32
 52.02 45.23 38.76 32.96 27.58 23.19 18.92 15.76 12.95

-5000. -500. 428080.40 5719309.15 247.62 -5000. -750. 428093.40 5719063.21 251.63 -5000. -850. 428095.70
 5718964.02 260.03 47.70 800.00 21.00 50.60 328.00 321.00 2.00 30.90 348.20 87.47 77.35
 68.00 59.11 50.86 43.38 36.47 30.43 24.85 21.14 17.48

-5000. -500. 428080.40 5719309.15 247.62 -5000. -850. 428095.70 5718964.02 260.03 -5000. -950. 428095.10
 5718864.57 272.93 96.65 800.00 -441.00 12.20 1196.00 1170.88 2.00 31.73 353.80 87.75 78.75
 69.29 60.66 52.30 44.66 37.29 31.23 25.38 21.84 18.36

-5000. -500. 428080.40 5719309.15 247.62 -5000. -950. 428095.10 5718864.57 272.93 -5000. -1050.
 428094.50 5718764.75 279.75 47.01 800.00 342.00 12.10 914.00 897.55 2.00 28.92 328.50 80.37
 72.02 63.23 55.43 47.76 40.82 33.94 28.43 22.75 19.98 16.82

-5000. -550. 428083.00 5719259.97 248.24 -5000. -575. 428084.30 5719235.38 248.56 -5000. -600. 428085.60
 5719210.79 248.87 486.69 700.00 21.00 7.80 218.00 215.18 1.00 5.42 72.70 16.07 13.95 12.18
 10.49 8.95 7.58 6.38 5.32 4.41 3.64 3.03

-5000. -550. 428083.00 5719259.97 248.24 -5000. -600. 428085.60 5719210.79 248.87 -5000. -650. 428088.20
 5719161.60 249.50 104.73 700.00 55.00 50.40 94.00 92.61 16.00 16.41 213.00 43.74 38.89
 34.35 30.07 26.04 22.37 19.24 16.40 13.87 11.56 9.69

-5000. -550. 428083.00 5719259.97 248.24 -5000. -650. 428088.20 5719161.60 249.50 -5000. -700. 428090.80
 5719112.40 251.00 83.24 700.00 -99.00 54.20 224.00 220.70 8.00 20.42 249.80 56.41 49.73
 43.42 37.77 32.46 27.81 23.93 20.31 17.18 14.34 11.95

-5000. -550. 428083.00 5719259.97 248.24 -5000. -700. 428090.80 5719112.40 251.00 -5000. -750. 428093.40
 5719063.21 251.63 87.83 700.00 121.00 61.20 473.00 466.18 8.00 21.68 263.20 60.08 53.06
 46.35 40.44 34.73 29.58 25.41 21.57 18.24 15.20 12.61

-5000. -550. 428083.00 5719259.97 248.24 -5000. -750. 428093.40 5719063.21 251.63 -5000. -800. 428096.00
 5719014.00 254.00 39.25 700.00 6.00 75.40 352.00 346.81 8.00 30.95 350.80 84.90 75.33
 66.12 57.53 49.68 42.32 36.35 30.89 26.04 21.64 17.98

-5000. -550. 428083.00 5719259.97 248.24 -5000. -800. 428096.00 5719014.00 254.00 -5000. -900. 428095.40
 5718914.43 270.39 61.95 700.00 -22.00 27.10 487.00 474.23 64.00 31.28 386.20 81.86 72.53
 63.37 56.06 48.27 41.66 36.34 31.24 26.93 22.81 19.17

-5000. -550. 428083.00 5719259.97 248.24 -5000. -900. 428095.40 5718914.43 270.39 -5000. -1000.
428094.80 5718814.66 276.34 88.08 700.00 87.00 3.00 1245.00 1224.20 128.00 29.96 392.80 77.65
68.76 59.87 53.07 45.66 39.48 34.68 30.00 26.00 22.08 18.73

-5000. -550. 428083.00 5719259.97 248.24 -5000. -1000. 428094.80 5718814.66 276.34 -5000. -1100.
428094.20 5718714.81 284.03 22.68 700.00 -220.00 2.10 504.00 496.03 256.00 29.64 411.30 76.22
67.49 58.13 51.65 44.47 38.66 34.29 29.80 26.04 22.09 18.70

-5000. -600. 428085.60 5719210.79 248.87 -5000. -625. 428086.90 5719186.19 249.19 -5000. -650. 428088.20
5719161.60 249.50 993.43 1100.00 55.00 49.50 284.00 279.50 2.00 5.96 79.30 17.18 15.05
13.22 11.41 9.82 8.35 7.02 5.89 4.90 4.05 3.33

-5000. -600. 428085.60 5719210.79 248.87 -5000. -650. 428088.20 5719161.60 249.50 -5000. -700. 428090.80
5719112.40 251.00 738.31 1100.00 -98.00 54.90 422.00 415.29 2.00 9.16 118.70 25.91 22.71
20.04 17.39 14.96 12.71 10.77 9.03 7.60 6.28 5.22

-5000. -600. 428085.60 5719210.79 248.87 -5000. -700. 428090.80 5719112.40 251.00 -5000. -750. 428093.40
5719063.21 251.63 446.55 1100.00 122.00 61.30 765.00 754.31 2.00 12.07 153.70 34.54 30.27
26.68 23.08 19.82 16.84 14.20 11.87 9.92 8.24 6.86

-5000. -600. 428085.60 5719210.79 248.87 -5000. -750. 428093.40 5719063.21 251.63 -5000. -800. 428096.00
5719014.00 254.00 144.44 1100.00 5.00 77.00 495.00 487.37 4.00 24.86 290.80 69.45 61.19
54.08 47.02 40.54 34.55 29.29 24.54 20.55 17.10 14.27

-5000. -600. 428085.60 5719210.79 248.87 -5000. -800. 428096.00 5719014.00 254.00 -5000. -850. 428095.70
5718964.02 260.03 44.07 1100.00 16.00 27.60 252.00 244.89 4.00 19.74 239.10 54.87 48.21
42.72 37.11 31.97 27.19 23.14 19.47 16.43 13.70 11.62

-5000. -600. 428085.60 5719210.79 248.87 -5000. -850. 428095.70 5718964.02 260.03 -5000. -950. 428095.10
5718864.57 272.93 254.83 1100.00 -440.00 12.50 1274.00 1249.85 4.00 26.76 307.30 73.84 65.04
57.87 50.21 43.31 36.85 31.28 26.26 22.20 18.68 15.91

-5000. -600. 428085.60 5719210.79 248.87 -5000. -950. 428095.10 5718864.57 272.93 -5000. -1050.
428094.50 5718764.75 279.75 118.90 1100.00 342.00 12.00 1070.00 1054.34 2.00 23.69 273.90 65.49
57.41 51.14 44.34 38.26 32.52 27.55 23.15 19.69 16.66 14.41

-5000. -600. 428085.60 5719210.79 248.87 -5000. -1050. 428094.50 5718764.75 279.75 -5000. -1150.
428093.90 5718664.86 288.31 29.04 1100.00 -53.00 25.10 411.00 405.16 0.50 26.20 306.40 75.00
64.61 57.47 48.79 41.48 36.54 30.59 25.15 21.18 18.49 15.88

-5000. -650. 428088.20 5719161.60 249.50 -5000. -675. 428089.50 5719137.00 250.25 -5000. -700. 428090.80
5719112.40 251.00 4278.79 2000.00 -27.00 38.50 672.00 662.67 0.13 2.99 45.10 9.50 8.08 6.98
5.94 5.04 4.23 3.52 2.92 2.39 1.95 1.59

-5000. -650. 428088.20 5719161.60 249.50 -5000. -700. 428090.80 5719112.40 251.00 -5000. -750. 428093.40
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C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X		
P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04
M05	M06	M07	M08	M09	M10	M11								

-5100. -300. 427976.00 5719521.00 242.00 -5100. -325. 427976.70 5719495.54 244.23 -5100. -350. 427977.40
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 9999. -9999. -9999. -9999. -9999. -9999. -9999. -9999. -9999.

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 4.64 2.64 2.06 1.76 0.85 0.10 -0.05 0.20

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 80.58 71.14 60.10 53.07 44.69 37.52 31.70 25.77 21.00

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 28.79 23.03 18.61 15.23 12.59 10.46 8.61 7.03 5.65 4.48

C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X		
P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04
M05	M06	M07	M08	M09	M10	M11								

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 47.18 40.96 35.19 29.47 24.92 20.72 16.99 13.49 11.22

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C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X		
P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04
M05	M06	M07	M08	M09	M10	M11								

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C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X		
P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04
M05	M06	M07	M08	M09	M10	M11								
-5400.	-300.	427705.00	5719505.00	252.00	-5400.	-325.	427704.70	5719480.12	251.52	-5400.	-350.	427704.40		
5719455.25	251.03	378.48	340.00	-2.00	45.80	350.00	348.09	0.03	1.88	33.10	6.36	5.35	4.58	
3.86	3.21	2.68	2.22	1.83	1.50	1.20	0.95							
-5400.	-300.	427705.00	5719505.00	252.00	-5400.	-350.	427704.40	5719455.25	251.03	-5400.	-400.	427703.80		
5719405.49	250.06	317.45	340.00	251.00	41.30	587.00	583.92	0.06	3.27	52.50	10.48	8.96	7.76	
6.61	5.58	4.63	3.84	3.18	2.58	2.11	1.71							
-5400.	-300.	427705.00	5719505.00	252.00	-5400.	-400.	427703.80	5719405.49	250.06	-5400.	-450.	427703.20		
5719355.70	249.96	228.53	340.00	-30.00	3.70	1267.00	1260.67	0.25	4.09	58.50	12.66	10.88		
9.49	8.12	6.86	5.77	4.81	3.98	3.30	2.70	2.20						
-5400.	-300.	427705.00	5719505.00	252.00	-5400.	-450.	427703.20	5719355.70	249.96	-5400.	-500.	427702.60		
5719305.88	251.61	177.85	340.00	-68.00	3.80	1972.00	1962.02	1.00	4.62	62.30	13.72	11.87		
10.39	8.97	7.61	6.47	5.45	4.55	3.80	3.10	2.52						
-5400.	-300.	427705.00	5719505.00	252.00	-5400.	-500.	427702.60	5719305.88	251.61	-5400.	-550.	427702.00		
5719256.05	253.26	183.71	340.00	-59.00	132.00	3395.00	3377.91	0.00	-9999.	-9999.	-9999.	-9999.	-	
9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-9999.	-	

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C1_Line	C1_Sta	C1_X	C1_Y	C1_Z	P1_Line	P1_Sta	P1_X	P1_Y	P1_Z	P2_Line	P2_Sta	P2_X	P2_Y	P2_Z	Vp	Ip	Sp	Rs	Rho	cRes	Tau	Mx	MT	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11
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 74.10 66.19 58.09 50.51 43.36 36.97 31.21 26.15 21.72 17.94

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 427616.83 5717491.18 272.94 1479.66 500.00 71.00 47.60 930.00 914.50 2.00 16.18 199.40 44.91
 39.85 35.30 30.73 26.53 22.63 19.16 16.07 13.36 11.02 9.05

-5500. -2200. 427617.67 5717540.35 272.88 -5500. -2250. 427616.83 5717491.18 272.94 -5500. -2300.
427616.00 5717442.00 273.00 493.57 500.00 67.00 47.40 620.00 610.10 8.00 27.02 314.00 72.89
64.99 57.77 50.55 43.80 37.52 31.91 26.89 22.46 18.62 15.35

-5500. -2250. 427616.83 5717491.18 272.94 -5500. -2275. 427616.42 5717466.59 272.97 -5500. -2300.
427616.00 5717442.00 273.00 3079.73 570.00 338.00 66.40 1697.00 1669.67 2.00 13.11 165.20 36.84
32.59 28.80 25.03 21.56 18.36 15.53 12.99 10.80 8.89 7.28

Work Report Summary

Transaction No: W0340.00670

Status: APPROVED

Recording Date: 2003-APR-24

Work Done from: 2003-FEB-15

Approval Date: 2003-JUL-08

to: 2003-MAR-15

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
TB 791435	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 791436	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 791437	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 791438	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 791439	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 791440	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854901	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854902	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854903	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854904	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854905	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854906	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854907	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854908	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854909	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854910	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854911	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854912	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854913	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854914	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854915	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854916	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854917	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854918	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854919	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854920	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854921	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854922	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854923	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854924	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854925	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854926	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854927	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854928	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854929	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854930	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854931	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854932	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854933	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854934	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25

Work Report Summary

Transaction No: W0340.00670

Status: APPROVED

Recording Date: 2003-APR-24

Work Done from: 2003-FEB-15

Approval Date: 2003-JUL-08

to: 2003-MAR-15

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
TB 854935	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854936	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854937	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854938	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854939	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854940	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854941	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854942	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854943	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854944	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854945	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854946	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854947	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854948	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854949	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854950	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854951	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 854952	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855101	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855102	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855103	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855104	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855105	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2005-APR-25
TB 855106	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855107	\$8,573	\$8,573	\$400	\$400	\$8,173	8,173	\$0	\$0	2005-APR-25
TB 855108	\$8,395	\$8,395	\$400	\$400	\$7,995	7,995	\$0	\$0	2005-APR-25
TB 855109	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855110	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855111	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2005-APR-25
TB 855112	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2005-APR-25
TB 855113	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855114	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855115	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855116	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855117	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855118	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855119	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855120	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855121	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855122	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25

Work Report Summary

Transaction No: W0340.00670

Status: APPROVED

Recording Date: 2003-APR-24

Work Done from: 2003-FEB-15

Approval Date: 2003-JUL-08

to: 2003-MAR-15

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
TB 855123	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855124	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855125	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855126	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855127	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855128	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855129	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855130	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855131	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855132	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855133	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855134	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855135	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855136	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855137	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855138	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855139	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855140	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855141	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2005-APR-25
TB 855142	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2005-APR-25
TB 855143	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855144	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855145	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855146	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855147	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855148	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855149	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855150	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855151	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855152	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 855153	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2004-APR-25
TB 1230767	\$41,439	\$41,439	\$1,600	\$1,600	\$39,839	39,839	\$0	\$0	2004-DEC-07
TB 1230768	\$0	\$0	\$2,400	\$2,400	\$0	0	\$0	\$0	2004-MAY-24
TB 1230769	\$26,811	\$26,811	\$1,600	\$1,600	\$3,593	3,593	\$21,618	\$21,618	2004-MAY-24
	\$85,218	\$85,218	\$63,600	\$63,600	\$59,600	\$59,600	\$21,618	\$21,618	

Work Report Summary**Transaction No:** W0340.00670**Status:** APPROVED**Recording Date:** 2003-APR-24**Work Done from:** 2003-FEB-15**Approval Date:** 2003-JUL-08**to:** 2003-MAR-15**External Credits:** \$0**Reserve:**

\$21,618 Reserve of Work Report#: W0340.00670

\$21,618 Total Remaining

Status of claim is based on information currently on record.

Date: 2003-JUL-08

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

SLAM EXPLORATION LTD.
115 WHALEN ST
MIRAMICHI, NEW BRUNSWICK
E1V 3W5 CANADA

Tel: (888) 415-9845
Fax: (877) 670-1555

Submission Number: 2.25458
Transaction Number(s): W0340.00670

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,



Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

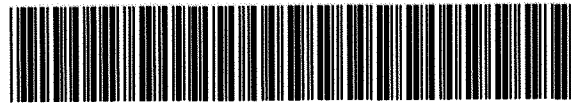
Pure Gold Minerals Inc.
(Claim Holder)

Slam Exploration Ltd.
(Claim Holder)

Assessment File Library

Michael Robert Taylor
(Agent)

Slam Exploration Ltd.
(Assessment Office)



52P09SE2004 2.25458 RICH LAKE

200

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES PROVINCIAL MINING RECORDERS' OFFICE

Mining Land Tenure Map

Date / Time of Issue: Thu Jul 10 09:23:56 EDT 2003

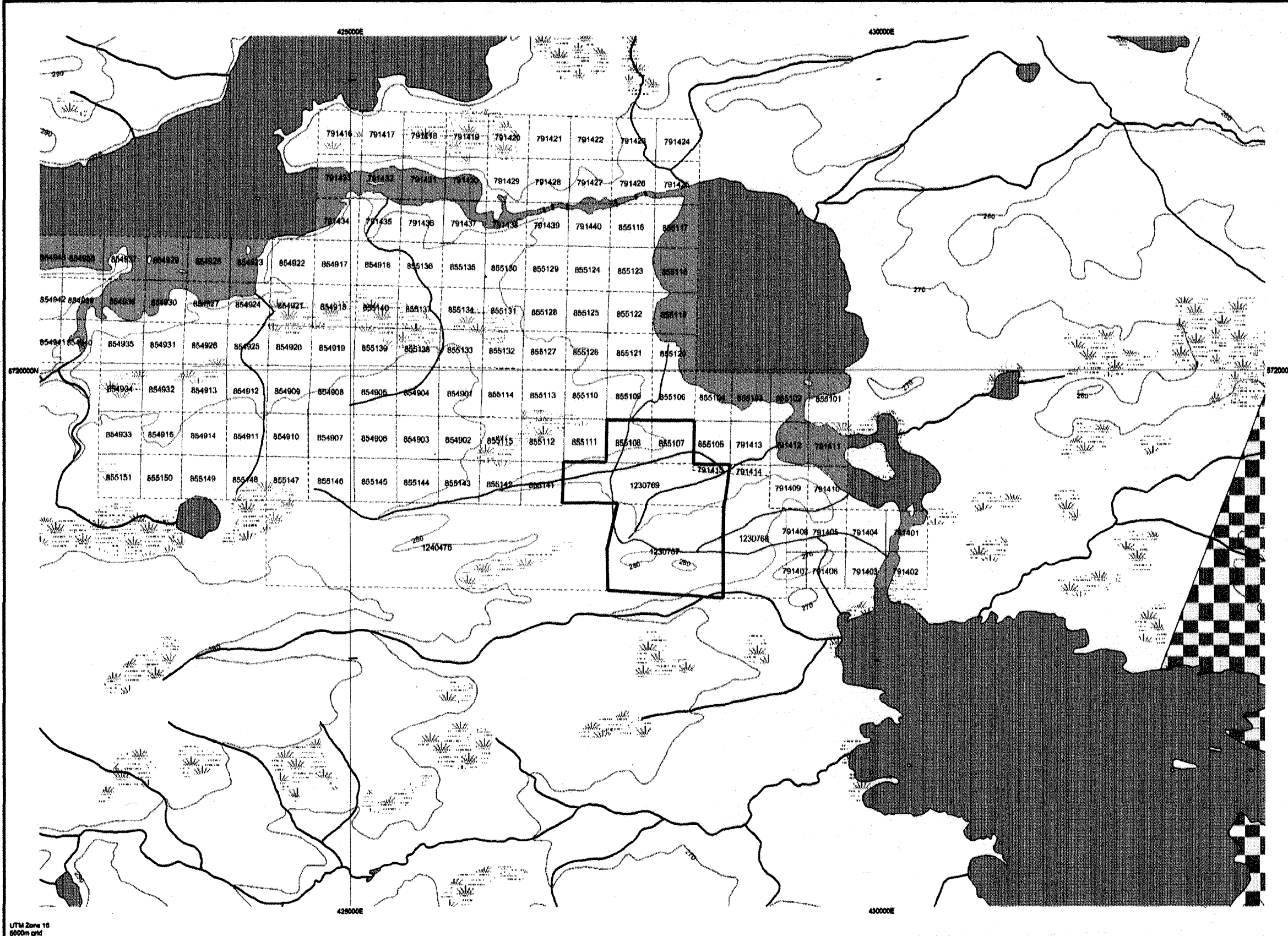
TOWNSHIP / AREA RICH LAKE AREA

PLAN G-0388

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Land Titles/Registry Division Ministry of Natural Resources District

Thunder Bay KENORA NIPIGON

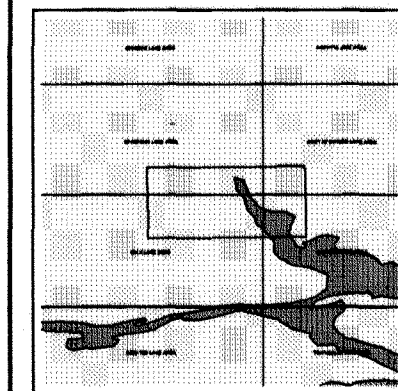


TOPOGRAPHIC

- Administrative Boundaries
Township
Concession, Lot
Provincial Park
Indian Reserve
CRR, PII & PII
Contour
Mine Shafts
Mine Headframe
Railway
Road
Trail
Natural Gas Pipeline
Utilities
Tower

Land Tenure

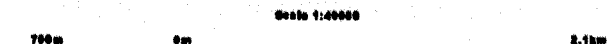
- Freehold Patent
Surface And Mining Rights
Surface Rights Only
Mining Rights Only
Leasehold Patent
Surface And Mining Rights
Surface Rights Only
Mining Rights Only
Licence of Occupation
Uses Not Specified
Surface And Mining Rights
Surface Rights Only
Mining Rights Only
Land Use Permit
Order In Council (Not open for staking)
Water Power Lease Agreement



LAND TENURE WITHDRAWALS

- Areas Withdrawn from Disposition
Mining Acts Withdrawal Types
Surface And Mining Rights Withdrawn
Surface Rights Only Withdrawn
Mining Rights Only Withdrawn
Order In Council Withdrawal Types
Surface And Mining Rights Withdrawn
Surface Rights Only Withdrawn
Mining Rights Only Withdrawn

IMPORTANT NOTICE



LAND TENURE WITHDRAWAL DESCRIPTIONS

Table with columns: Identifier, Type, Date, Description. Row 1: W.47/83, Wem, Aug 26, 1983, PARK RESERVE W.47/83 8/25/83 S.M. 168516 DISPOSITION BY I

2.25458 IP

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon.

General Information and Limitations

Contact Information: Provincial Mining Recorders' Office, Wilket Green Millar Centre 933 Ramsey Lake Road, Sudbury ON P3E 6B5

Toll Free: 1 (888) 415-9845 ext 5788; Fax: 1 (877) 870-1444

Map Datum: NAD 83; Topographic Data Source: Land Information Ontario; Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site