LOGISTICAL AND INTERPRETIVE REPORT
ON
SPECTRAL IP/RESISTIVITY SURVEY

FALCONBRIDGE OPTION
WHITESIDES TOWNSHIP
ONTARIO

FOR

PROSPECTORS ALLIANCE CORPORATION

2.17929

JVX Ltd.

LOGISTICAL AND INTERPRETIVE REPORT

ON

SPECTRAL IP/RESISTIVITY SURVEY

FALCONBRIDGE OPTION
WHITESIDES TOWNSHIP
ONTARIO

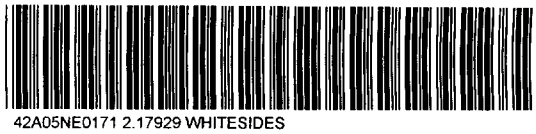
For: **PROSPECTORS ALLIANCE CORPORATION**
95 Wellington Street West, Suite 1800
Toronto, Ontario,
M5J 2N7
Tel.: (416) 360-5333
Fax: (416) 360-4419
Attention: Peter Vamos

By: JVX Ltd.
60 Wilmot Street West, Unit #22
Richmond Hill, Ontario
L4B 1M6
Tel: (905) 731-0972
Fax: (905) 731-9312

Contact: Blaine Webster

JVX Ref: 9753
September 1997

TABLE OF CONTENTS



LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

LIST OF PLATES

One set of colour pseudosection and Plan maps is contained in one report.

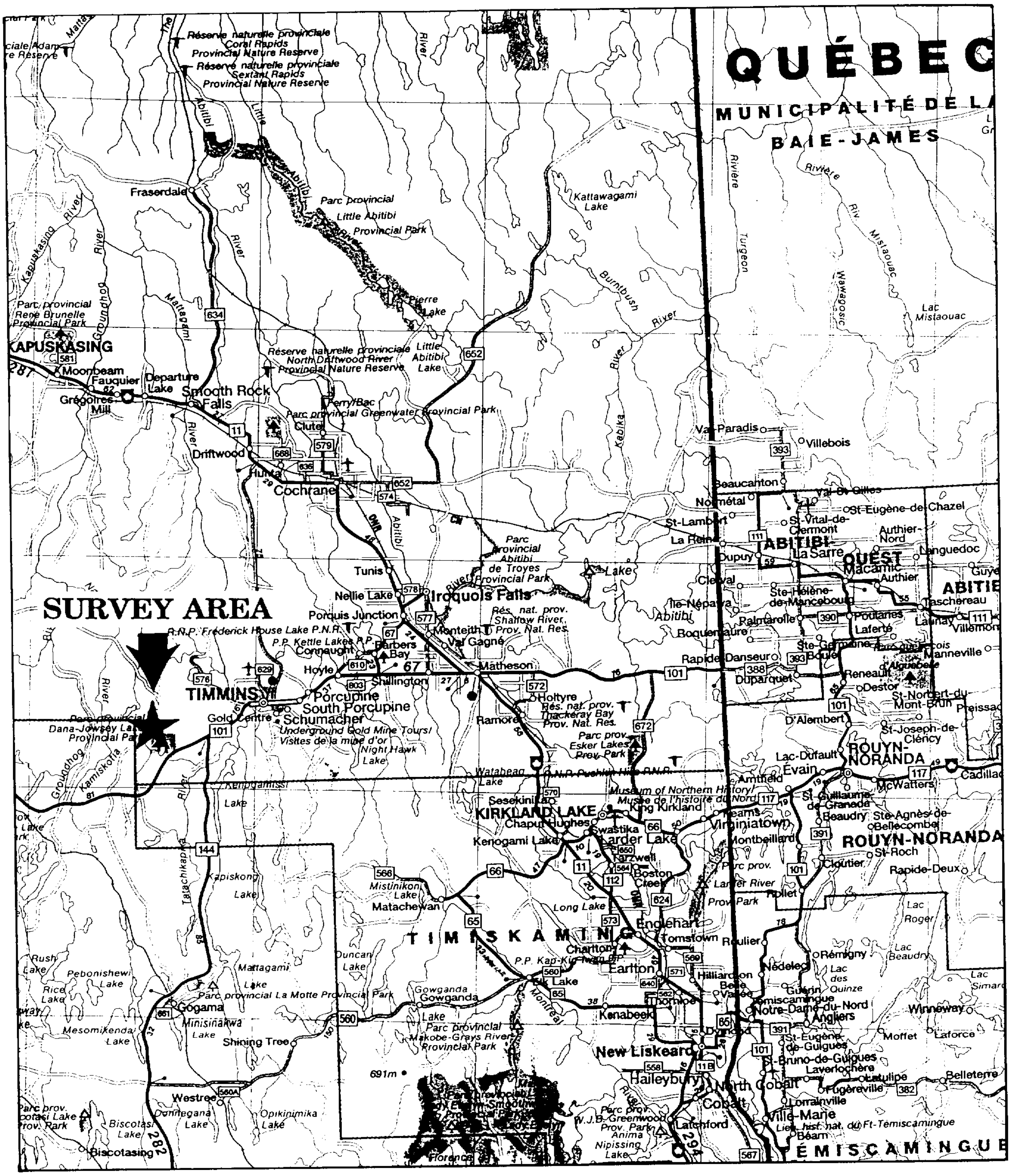
1. INTRODUCTION

JVX Ltd. put in a survey grid and conducted time-domain spectral induced polarization (IP) and resistivity survey from July 21 through July23, 1997 on behalf of Prospectors Alliance Corporation. The work was positioned on the Falconbridge Option in Whitesides Township, Ontario (NTS 42 A/5). The survey location is shown in Figure 1 and the survey grid is shown in Figure 2.

The purpose of these surveys was to locate disseminated sulphides, which may be associated with gold mineralization.

The Falconbridge grid covered the following claims in Whitesides Township:

1115753
1115757
1115751
1115752
1115758
1115764



LOCATION MAP
PROSPECTORS ALLIANCE INC.
FALCONBRIDGE OPTION
Whitesides Twp., Ontario
N.T.S. 42 A/5

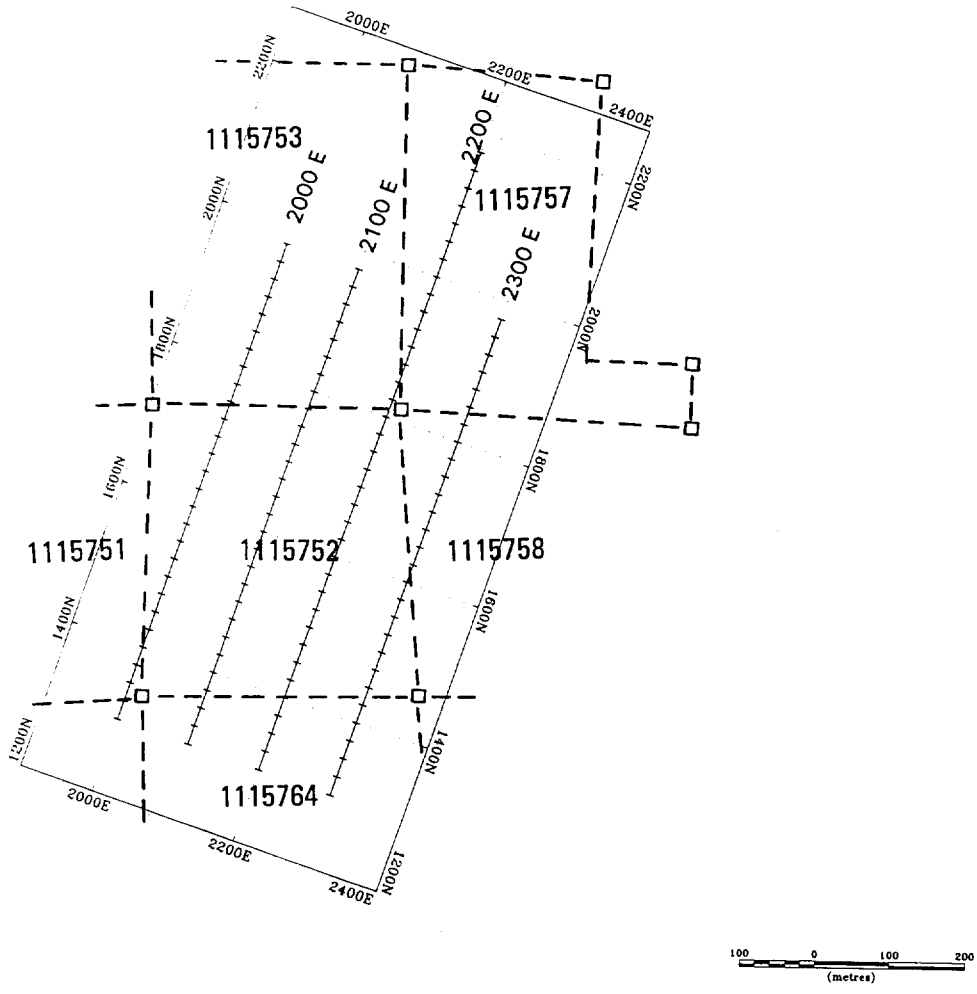
GROUND GEOPHYSICAL SURVEY

Scale : 1 : 1,725,000

2 . 17929

Surveyed by **JVX Ltd.**
July, 1997

Figure 1



GRID / CLAIM MAP
PROSPECTORS ALLIANCE INC.
FALCONBRIDGE OPTION
Whitesides Twp., Ontario
N.T.S. 42 A/5

GROUND GEOPHYSICAL SURVEY

Scale : 1 : 10,000

Surveyed by **JVX Ltd.**
July, 1997

Figure 2

2. SURVEY SPECIFICATIONS and PRODUCTION SUMMARY

IP/Resistivity	
Transmitter	Scintrex TSQ3/3.0 kW
Receiver	Scintrex IPR-11
Array Type	Pole-Dipole
Transmit Cycle Time	2 sec
Receive Cycle Time	2 sec
Number of Potential Electrode Pairs	6
Electrode Spacing	25 metres
Number of Lines Surveyed	4
Survey Coverage	3000 metres

Table 1: Specifications for the IP/Resistivity Survey

The production summary is listed in the following table:

Line	From Station	To Station	Distance (m)	No. of Readings
2000E	1300N	2000N	700	27
2100E	1300N	2000N	700	27
2200E	1300N	2200N	900	35
2300E	1300N	2000N	700	27
Total:			**3000**	**116**

Table 2: Summary for IP/Resistivity Survey

3. PERSONNEL

John Gilliatt (Geophysicist)
Mr. Gilliatt operated the IPR-11 receiver and was responsible for data quality.

Fred Moher (Geophysical Technician)
Mr. Moher operated the IP transmitter and was responsible for day-to-day operation.

Four field assistants were also engaged by JVX.

Dagmar Piska (Draftsperson) and Vaso Lymberis (Draftsperson):
Ms. Piska and Ms. Lymberis carried out the manual drafting on the figures/plates and on the Compilation Map and assembled this report.

Aleksandra Savic (Geophysicist):
Ms. Savic interpreted and plotted the data, prepared this report and is responsible for data storage.

Joe Mihelcic (Geophysicist):
Mr. Mihelcic processed and plotted the data, and conducted preliminary interpretation.

Blaine Webster (President, JVX Ltd.):
Mr. Webster provided overall supervision of the survey.

4. FIELD INSTRUMENTATION and POLE-DIPOLE ARRAY

JVX supplied the geophysical instruments specified in Appendix A.

4.1 IP TRANSMITTER

The **Scintrex TSQ3/3.0 kW Time Domain Transmitter** powered by a ten-horsepower motor generator was used. The transmitter generates square wave current output with a period of 4, 8, or 16 seconds. A digital multimeter in series with the transmitter is used to measure the magnitude of the current output.

4.2 IP RECEIVER

The **Scintrex IPR-11 Time Domain Receiver** was used. This unit samples the voltage decay curve as measured by the potential electrodes at ten points in time. Readings are repeated until they converge to within a tolerance level, and the data are stored in solid-state memory.

4.2.1 The Pole-Dipole Array

The "pole-dipole" survey configuration was used. Typically, it is made up of 8 mobile electrodes, one current electrode C_1 and seven potential electrodes (P_1 to P_7 connected to the receiver by means of the "Snake"). The infinity current location C_2 is maintained at a large distance from the grid. This distance is about 10 times the potential electrode spacing "a" times 6 (the maximum number of "n" used in the pole-dipole survey).

5. DATA PROCESSING

After being transferred to a field computer at the end of each survey day, the data were examined, corrected, and organized by the instrument operator. The results were plotted on a

- STAR NX-80 colour dot-matrix printer

These plots were used to monitor progress and data quality, and to make an initial interpretation. Thus survey parameters and design were altered when necessary.

5.1 IP AND RESISTIVITY

The data were sent by courier to the head office of JVX in Richmond Hill, Ontario. They were processed and results were plotted on the following printers as was necessary:

- HEWLETT PACKARD DESIGNJET 750C 36 inch colour plotter
- HEWLETT PACKARD 5L Laser printer

The processing procedure is outlined below:

1) **JVX software** was used to perform spectral analysis of the time-domain data. This step was crucial to maximizing the information that can be obtained from IP data. This software analyses the shape of the IP decay curve, giving information about:
   (a) the grain size (indicated by the parameter *tau*), and
   (b) the magnitude of the chargeable source (indicated by *M-IP*).
2) The **GEOSOFT IP PROCESSING Package** was used to generate colour and black and white pseudosections of chargeability and resistivity data.

3) Plan maps of both chargeability and resistivity data were produced using **JVX in-house software** and the **GEOSOFT Mapping Package**. Additional drafting on these maps was done manually or through **AUTOCAD**.

Steps 1 and 2 were performed both in the field and in the head office. Step 3 was performed at the head office.

6. INTERPRETATION METHODOLOGY

JVX uses its many years of experience in geophysical interpretation to extract the most accurate information from the data. The procedures involved are simplified for the sake of clarity.

6.1 IP AND RESISTIVITY

The IP and resistivity data are interpreted using the following procedure:

1) Chargeability anomalies are picked on the pseudosections and classified using the following scheme *as a guide*:

——— *Very Strong* (> 30 mV/V) and well defined

——— *Strong* (20 to 30 mV/V) and well defined

— — *Moderate* (10 to 20 mV/V) and well defined

– – – *Weak* (5 to 10 mV/V) and well defined

. . . . . *Very Weak* (3 to 5 mV/V) and poorly defined

x x x x *Extremely Weak* (<3 mV/V) and very poorly defined

The peak of the anomaly provides a qualitative indication of the depth to the top of the anomalous source and the location of the centre of the body. Where possible, the location and dipole number of the peak are written beside the anomaly bar.

2) The spectral characteristics of the anomalies are examined. The peak value of *M-IP* is noted, and *tau* is classified according to the following scheme:

L *Long* (> 10.0 sec)

M *Medium* (1.0 to 10.0 sec)

S *Short* (< 1.0 sec)

3) Resistivity anomalies are picked on the pseudosections and classified using the following scheme *as a guide*:

no symbol **VH(*n*)** *Very High* (> 25 000 ohm m) — highly silicified

no symbol **H(*n*)** *High* (> 10 000 ohm m) — probably silicified

no symbol **WH(*n*)** *Weak High* (< 10 000 ohm m) — relative increase compared to surrounding material

— — **SL(*n*)** *Strong Low* — strong decrease in resistivity

– – – **ML(*n*)** *Medium Low* — medium decrease in resistivity

. . . . . **WL(*n*)** *Weak Low* — weak resistivity decrease relative to surrounding material, where *n* is the dipole number at which the anomaly peak is located.

4) The anomalies from steps 1 to 3 are marked on the Compilation Map.

5) Zones of high chargeability are interpreted based on resistivity and geometric information.

6) The anomalies are rated according to JVX's past experience.

7. DISCUSSION OF RESULTS and RECOMMENDATIONS

Although 300 m in an east-west direction have been covered by this survey Chargeability and resistivity Plan maps are produced for two dipoles, n=2 and n=4. Approximate depth presentation for these two slices is 30 and 60 m. Individual pseudosections with interpreted anomalies, Plan maps and Compilation map (Plate 7) are included in Appendix B.

Two main IP zones are labelled on the Compilation map as ***IP-1*** and ***IP-2***. They are parallel, east-west trending, very strong IP zones with strong spectral response. South zone ***IP-1*** correlates with a strong resistivity low, conductive zone, with true chargeabilities from 267 to 541 mV/V and medium-to-short time constant. Two medium-priority targets have been located in this zone (***TM3*** and ***TM4***).

IP-2 is a strong, wide IP anomaly sitting in a rather complex resistivity environment. It correlates with weak high resistivity on the northwest side, low resistivity in the central part, and high resistivity on the southeast side. A resistivity low east-west trend in the central part of this zone may indicate possible shearing or alteration. Two highest priority targets have been located in this zone, ***TH1*** and ***TH2***. All the anomalies in this zone have high spectral response (294 to 414 mV/V) with a short time constant, indicating fine-grained mineralization.

IP zone ***IP-3*** possibly represents a weaker extension of ***IP-2*** towards the north. It consists of medium strong-to-weak IP anomalies with medium spectral response, and medium-to-short time constant. Two narrow, high resistivity trends cut this IP zone.

IP-4, a single-line IP anomaly zone, consists of a shallow, strong IP anomaly, with strong spectral response (MIP=439 mV/V) and short time constant. Although this is an end-of-line anomaly, one medium-to-lower priority target, ***TL6*** is located in this zone. The IP survey should be extended to the north on both L2100E and L2000E in order to delineate this anomaly.

IP zone ***IP-5*** is a narrow, deep, east-west trending anomaly, located between two resistivity high zones, on the south portion of the grid. South of the east end of this IP zone, one deep, medium-strong IP anomaly with medium spectral response and short time constant is outlined as a medium priority target ***TM5***.

8. SUMMARY

JVX Ltd. conducted time-domain spectral induced polarization (IP) and resistivity surveys on behalf of Prospectors Alliance Corporation on the Falconbridge grid in Whitesides Township, NTS 42 A/5 over four lines, for a total of 3km of line-survey. Drill targets have been primarily prioritized according to geophysical data. The following is a table of recommended drill targets:

FALCONBRIDGE OPTION/P.A.L.							
Evaluation of Spectral IP/Resistivity data (geophysical criteria used for target priorities). JVX Reference # 9753							
Target	IP Zone and Location	Res.	M-IP	Mx	Tau	Diplole	TARGET
		Ohm.m	mV/V	mV/V	msec	n	Priorities
1	IP2 2200E/1750N	LOW	414	37.6	S	4	HIGH
2	IP2 2100E/1750N	LOW	307	27.8	S	2	HIGH
3	IP1 2100E/1600N	LOW	541	58	M	1	MED.
4	IP1 2200E/1575N	LOW	473	40	M	1	MED.
5	IP5 2300E/1450N	HIGH	181	11.3	S	5	MED.
6	IP4 2100E/1950N	LOW	439	36.1	S	2	LOW

To better evaluate the exploration targets identified in this report, a detailed geological sampling program is recommended prior to drilling.

If there are questions with regard to the survey or its interpretation please call the undersigned.

Respectfully submitted,

JVX Ltd.

Aleksandra Savic, M.Sc.
Geophysicist

Joe Mihelcic, P.Eng.
Geophysicist

Blaine Webster, B.Sc.
President

APPENDIX A

SCINTREX IPR-11 Broadband Time Domain IP Receiver

Operator using the IPR-11

The microprocessor-based IPR-11 is the heart of a highly efficient system for measuring, recording and processing spectral IP data. More features than any remotely similar instrument will help you enhance signal/noise, reduce errors and improve data interpretation. On top of all this, tests have shown that survey time may be cut in half, compared with the instrument you may now be using.

The IPR-11 Broadband Time Domain IP Receiver is principally used in electrical (EIP) and magnetic (MIP) induced polarization surveys for disseminated base metal occurrences such as porphyry copper in acidic intrusives and lead-zinc deposits in carbonate rocks. In addition, this receiver is used in geoelectrical surveying for deep groundwater or geothermal resources. 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 contrasts are absent. A third application of the IPR-11 is in induced polarization research projects such as the study of physical properties of rocks.

Due to its integrated, microprocessor-based design, the IPR-11 provides a large amount of induced polarization transient curve shape information from a remarkably compact, reliable and flexible format. Data from up to six potential dipoles can be measured simultaneously and recorded in solid-state memory. Then, the IPR-11 outputs data as: 1) visual digital display, 2) digital printer profile or pseudo-section plots, 3) digital printer listing, 4) a cassette tape or floppy disk record, 5) to a microcomputer or 6) to a modem unit for transmission by telephone. Using software available from Scintrex, all spectral IP and EM coupling parameters can be calculated on a microcomputer.

The IPR-11 is designed for use with the Scintrex line of transmitters, primarily the TSQ series of current and waveform stabilized models. Scintrex has been active in induced polarization research, development, manufacture, consulting and surveying for over thirty years and offers a full range of time and frequency domain instrumentation as well as all accessories necessary for IP surveying.

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Digital Display	Two, 4 digit LCD displays. One presents data, either measured or manually entered by the operator. The second display: 1) indicates codes identifying the data shown on the first display, and 2) shows alarm codes indicating errors.
Analog Meters	Six meters for: 1) checking external circuit resistance, and 2) monitoring input signals.
Digital Data Output	RS-232C compatible, 7 bit ASCII, no parity, serial data output for communication with a computer, digital printer, digital storage device or modem.
Standard Rechargeable Power Supply	Eight rechargeable NiCad D cells provide approximately 15 hours of continuous operation at 25°C. Supplied with a battery charger, suitable for 110/230V, 50 to 400 Hz, 10W.
Disposable Battery Power Supply	At 25°C, about 40 hours of continuous operation are obtained from 8 Eveready E95 or equivalent alkaline D cells. At 25°C, about 16 hours of continuous operation are obtained from 8 Eveready 1150 or equivalent carbon-zinc D cells.
Dimensions	345 mm x 250 mm x 300 mm, including lid.
Weight	10.5 kg, including batteries.
Operating Temperature Range	-20 to +55°C, limited by display.
Storage Temperature Range	-40 to +60°C.
Standard Items	Console with lid and set of rechargeable batteries, RS-232C cable and adapter, 2 copies of manual, battery charger.
Optional Items	Multidipole Potential Cables, Data Memory Expansion Blocks, Crystal Clock, SOFT II Programs, Printer, Cassette Tape Recorder, Disk Drive or Modem.
Shipping Weight	25 kg includes reusable wooden shipping case.

At Scintrex we are continually working to improve our line of products and beneficial innovations may result in changes to our specifications without prior notice.

SCINTREX

222 Snidercroft Road
Concord Ontario Canada
L4K 1B5

Telephone: (416) 669-2280
Fax: (416) 669-5132
Telex: 06-964570

Geophysical and Geochemical
Instrumentation and Services

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.

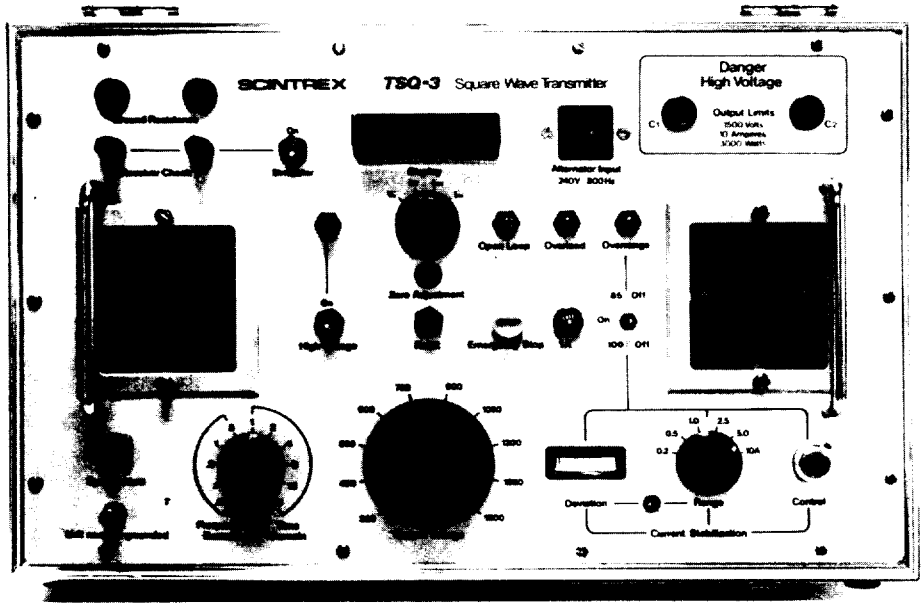
Rectifier circuit is protected against transients.

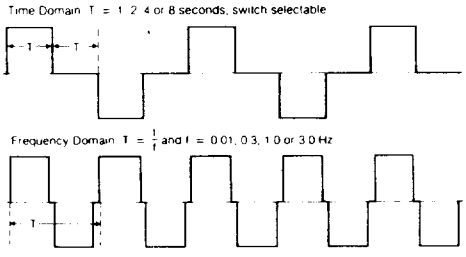
Excellent power/weight ratio and efficiency.

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.





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

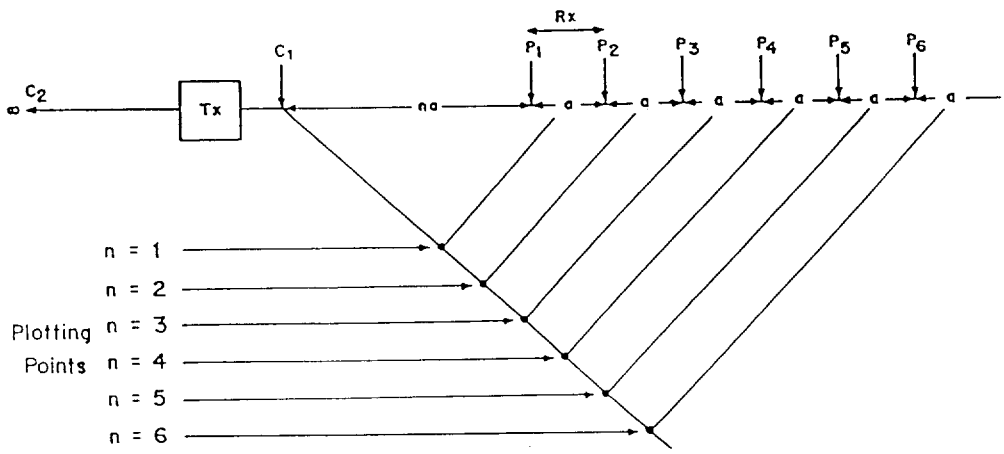
Transmitter Console	
Output Power	3000 VA maximum
Output Voltages	300, 400, 500, 600, 750, 900, 1050, 1200, 1350 and 1500 volts, switch selectable
Output Current	10 amperes maximum
Output Current Stability	Automatically controlled to within ±0.1% for up to 50% external load variation or up to ±10% input 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	± 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: 0.033, 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	t:t:t:t,on:off:on:off;automatic
Time Domain Polarity Change	each 2t; automatic
Time Domain Pulse Durations	Standard: t = 1, 2, 4, 8, 16 or 32 seconds Optional: any other timings
Period Time Stability	Crystal controlled to better than .01%. An optional high stability clock provides stabilization to better than 1 ppm over -20/ + 50° C.
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 100 mA
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.

SCINTREX

222 Snidercroft Road
Concord Ontario Canada
L4K 1B5

Telephone: (416) 669-2280
Telex: 06-964570
FAX: (416) 669-5132
Cable: Geoscint Toronto

Geophysical and Geochemical
Instrumentation and Services



ARRAY GEOMETRY

Apparent Resistivity:

$$\rho_a = 2\pi\ na(n+1)\ Vp/I$$

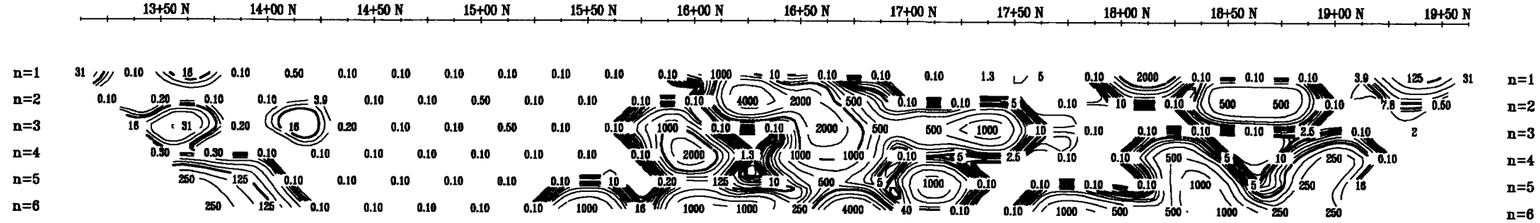
where
- ρ_a = apparent resitivity (ohm.m)
- n = dipole number (dimensionless)
- a = dipole spacing (m)
- Vp = primary voltage (mV)
- I = primary current (mA)

Pole-Dipole Array
Array Geometry and Formula for Apparent Resistivity

APPENDIX B

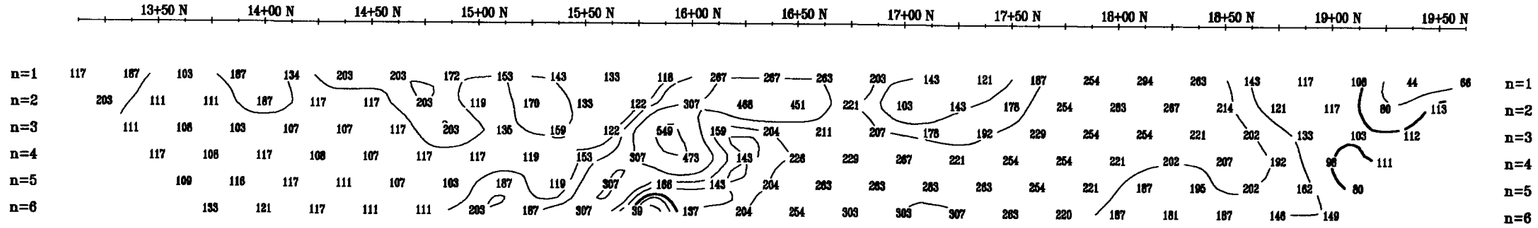
Line 2000 E

Spectral Tau
(msec)



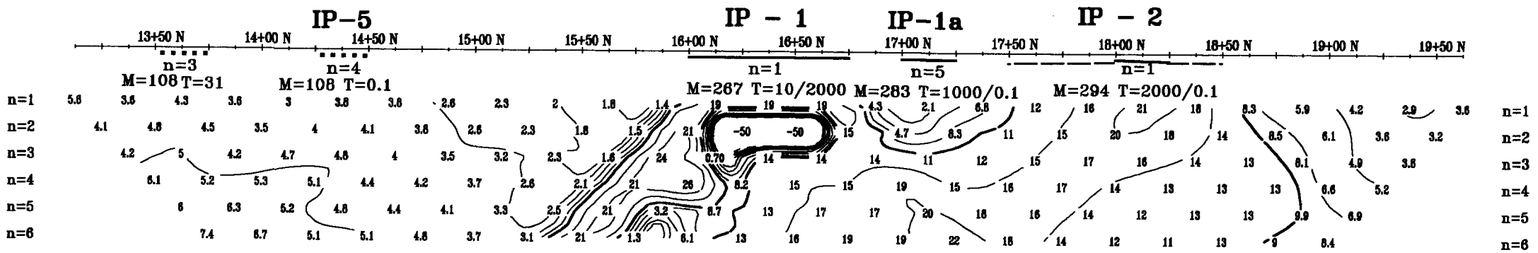
Spectral Tau
(msec)

Spectral MIP
(mV/V)



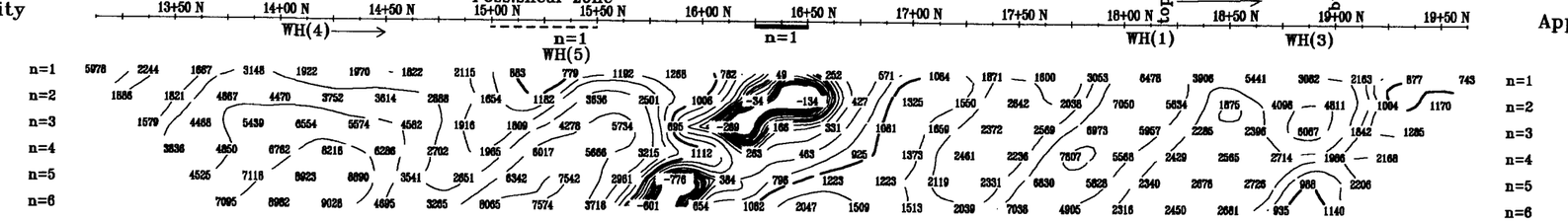
Spectral MIP
(mV/V)

Mx Chargeability
(mV/V, 690–1050 ms)



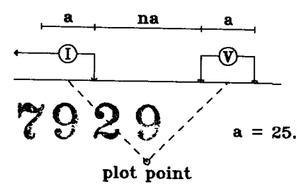
Mx Chargeability
(mV/V, 690–1050 ms)

Apparent Resisitivity
(ohm–m)



Apparent Resisitivity
(ohm–m)

Pole–Dipole Array



RESISTIVITY AND CHARGEABILITY ANOMALIES

- Very strong
- Strong
- Medium
- Weak
- Very weak
- x x x x x x Extremely weak

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

Plate 1

PROSPECTORS ALLIANCE CORPORATION

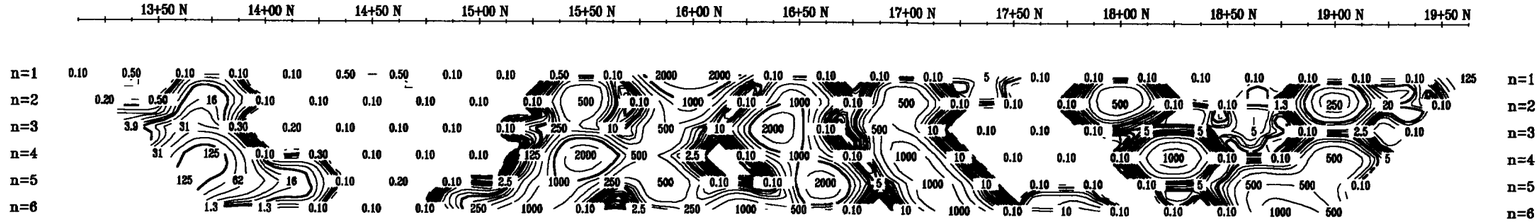
INDUCED POLARIZATION SURVEY
Falconbridge Option
Whitesides Twp., Ontario, NTS 42 A/5

Date: 97/08/12
Scintrex IPR–11 Rx, IPC–7 Tx (2 sec)

JVX Ltd. ref. no. 9753

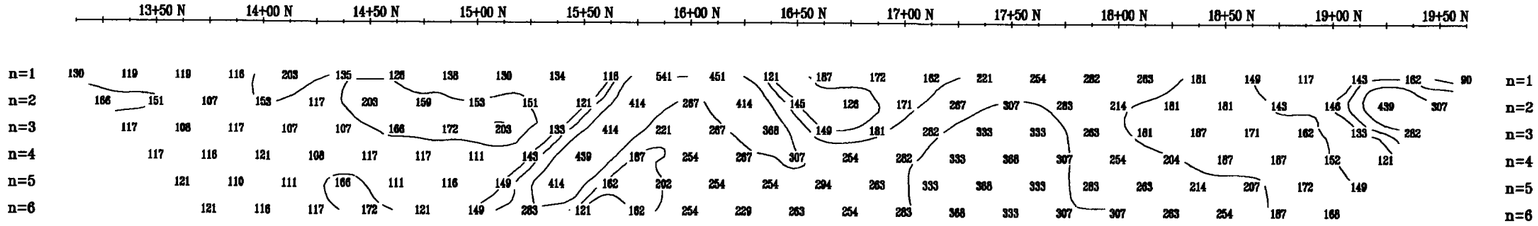
Line 2100 E

Spectral Tau
(msec)



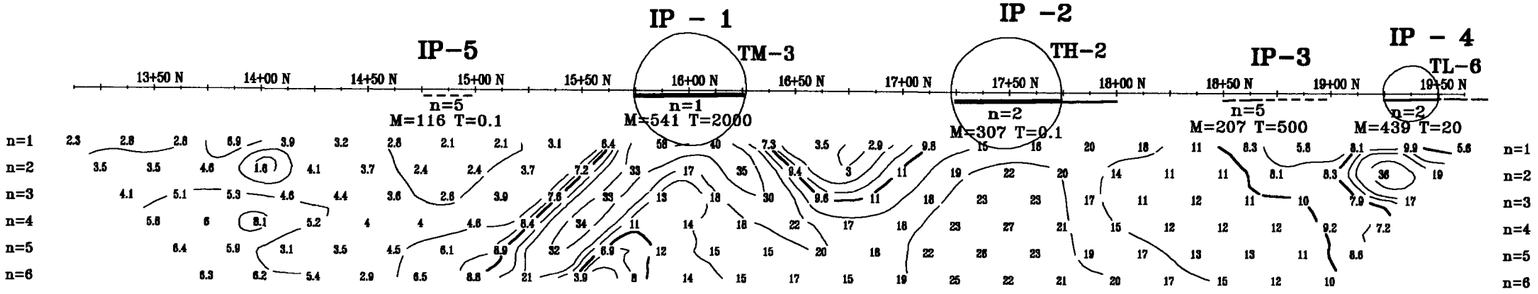
Spectral Tau
(msec)

Spectral MIP
(mV/V)



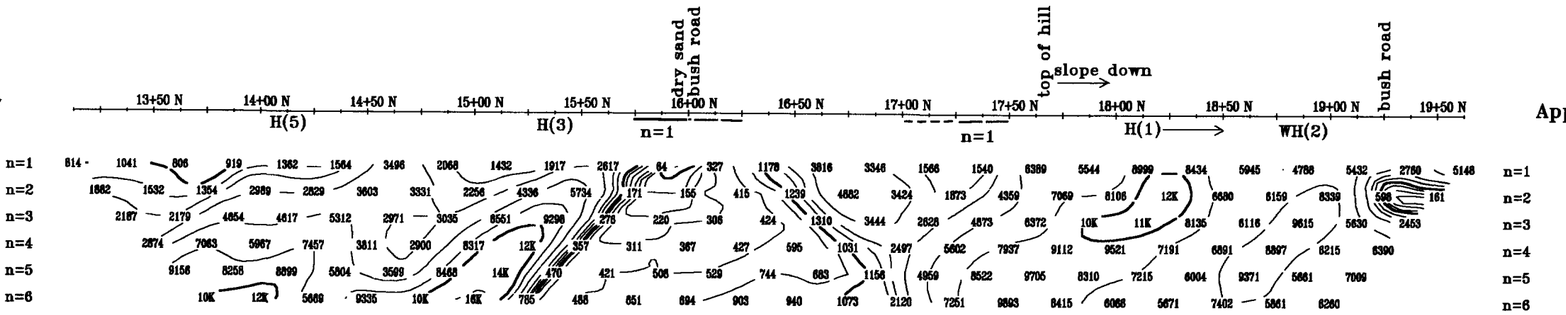
Spectral MIP
(mV/V)

Mx Chargeability
(mV/V, 690-1050 ms)



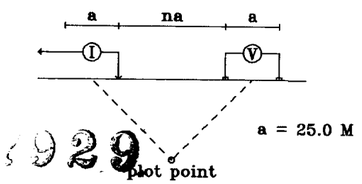
Mx Chargeability
(mV/V, 690-1050 ms)

Apparent Resisitivity
(ohm-m)



Apparent Resisitivity
(ohm-m)

Pole-Dipole Array



RESISTIVITY AND CHARGEABILITY ANOMALIES

- Very strong
- Strong
- Medium
- Weak
- Very weak
- x x x x x x Extremely weak

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

Plate 2

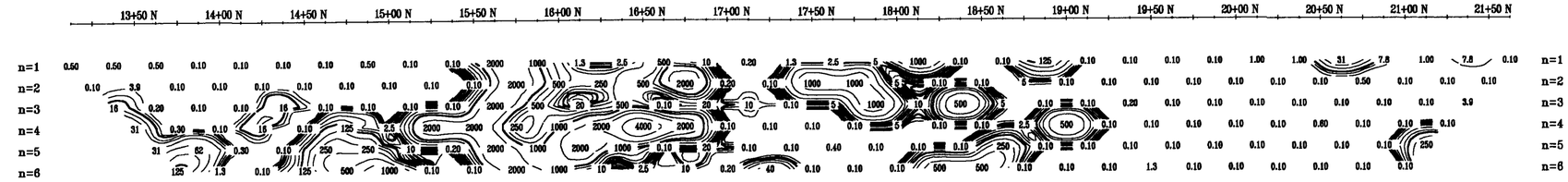
PROSPECTORS ALLIANCE CORPORATION

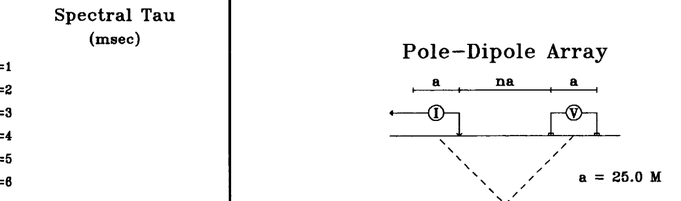
INDUCED POLARIZATION SURVEY
Falconbridge Option
Whitesides Twp., Ontario, NTS 42 A/5

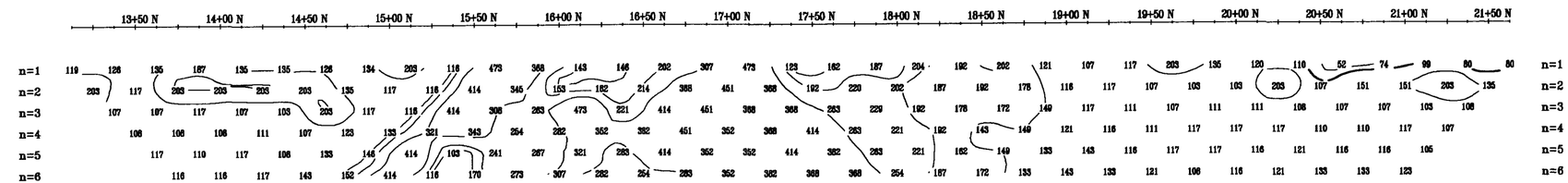
Date: 97/08/12
Scintrex IPR-11 Rx, IPC-7 Tx (2 sec)

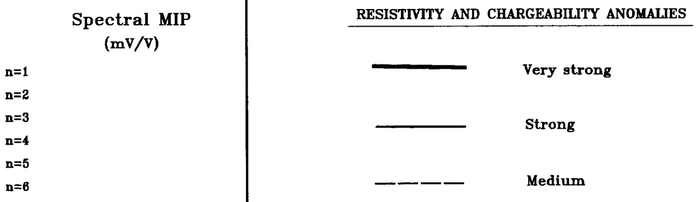
JVX Ltd. ref. no. 9753

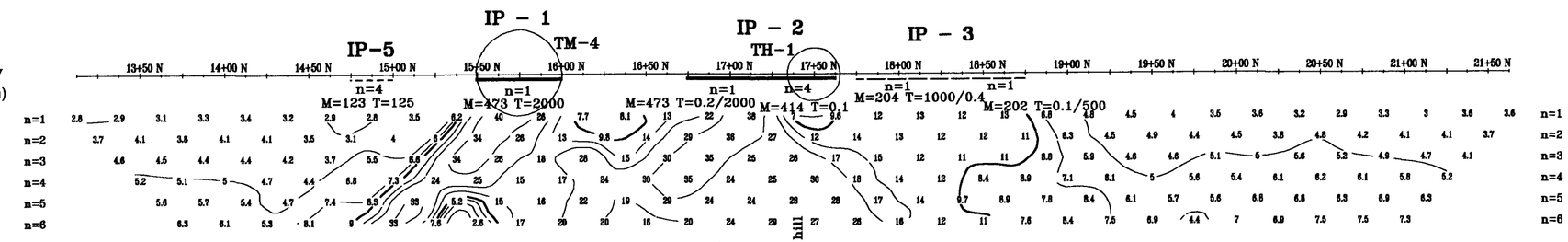
Line 2200 E

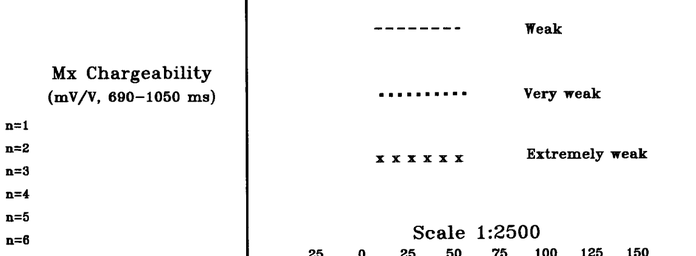


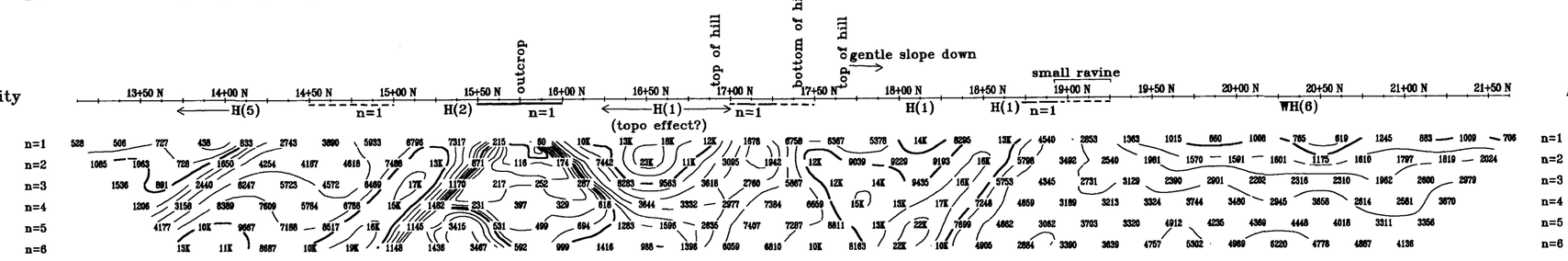


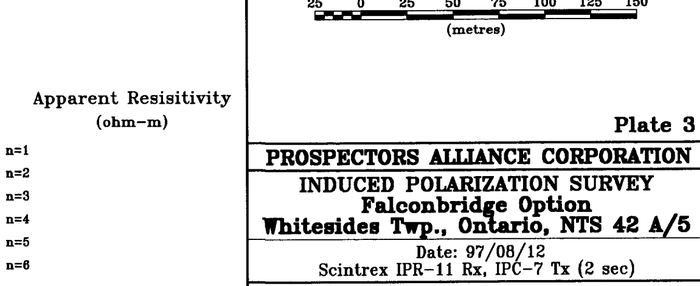












Pole-Dipole Array

RESISTIVITY AND CHARGEABILITY ANOMALIES

- Very strong
- Strong
- Medium
- Weak
- Very weak
- Extremely weak

Scale 1:2500

25 0 25 50 75 100 125 150

(metres)

Plate 3

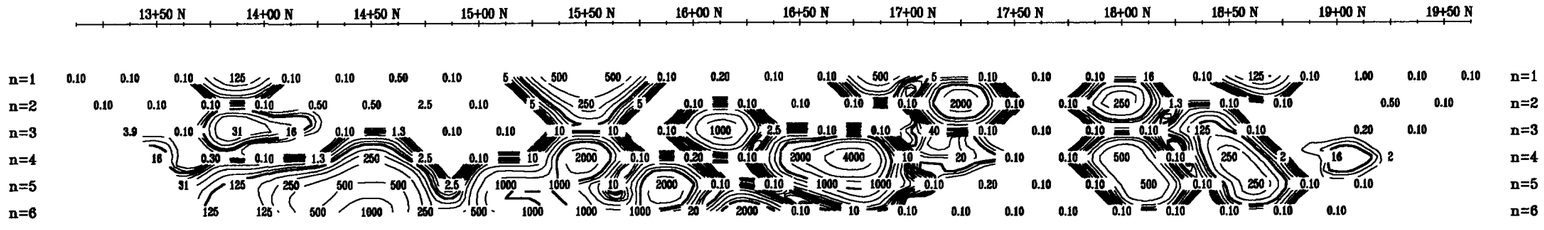
PROSPECTORS ALLIANCE CORPORATION

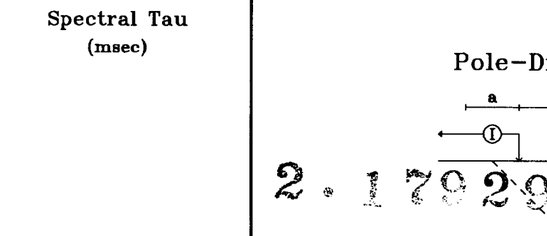
INDUCED POLARIZATION SURVEY
Falconbridge Option
Whitesides Twp., Ontario, NTS 42 A/5

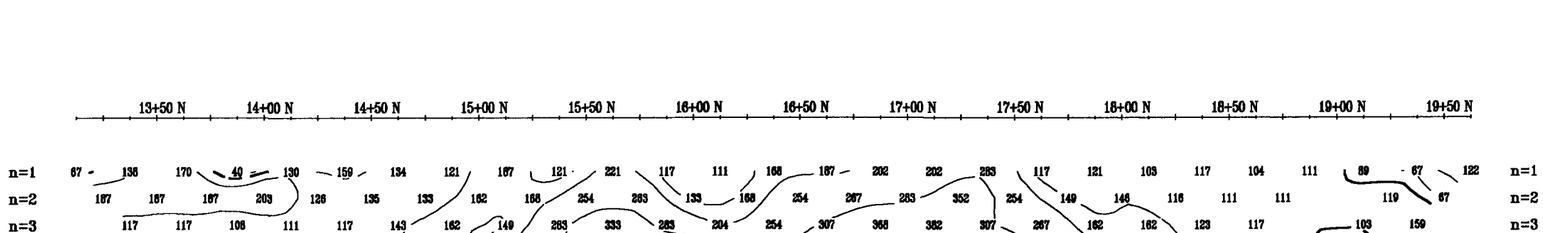
Date: 97/08/12
Scintrex IPR-11 Rx, IPC-7 Tx (2 sec)

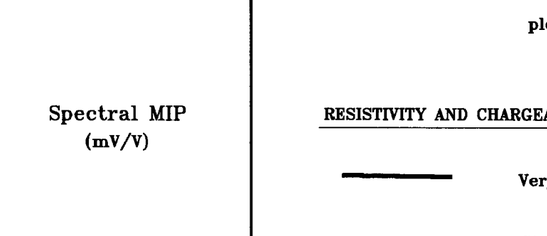
JVX Ltd. ref. no. 9753

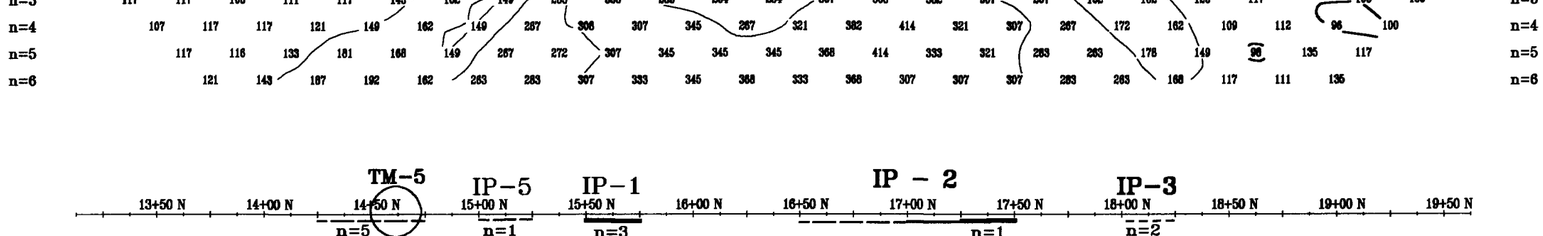
Line 2300 E

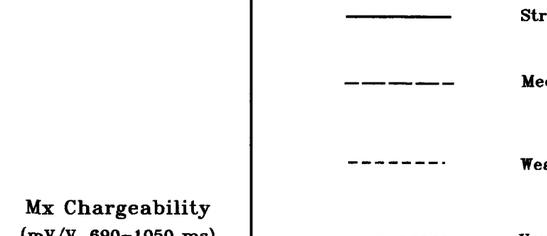


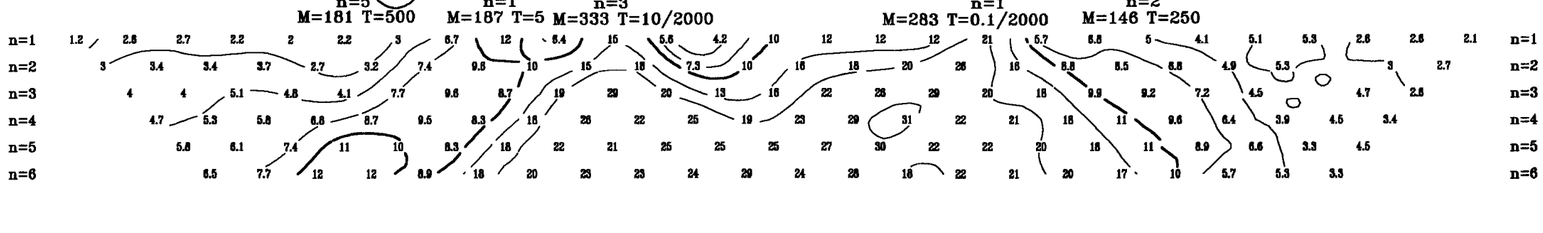


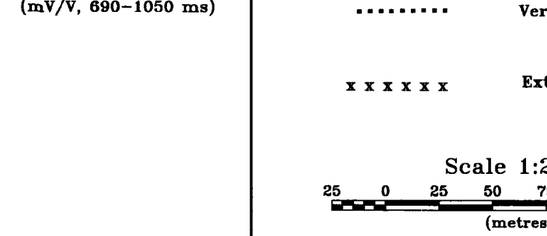












Pole-Dipole Array

RESISTIVITY AND CHARGEABILITY ANOMALIES

- Very strong
- Strong
- Medium
- Weak
- Very weak
- x x x x x x — Extremely weak

Scale 1:2500

25 0 25 50 75 100 125 150

(metres)

Plate 4

PROSPECTORS ALLIANCE CORPORATION

INDUCED POLARIZATION SURVEY
Falconbridge Option
Whitesides Twp., Ontario, NTS 42 A/5

Date: 97/08/12
Scintrex IPR-11 Rx, IPC-7 Tx (2 sec)

JVX Ltd. ref. no. 9753

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (Office Use): W9760.00536

Assessment Files Research Imaging

Personal / Mining Ac Questions 933 Ram

Mining Act. Under section 8 of the spond with the mining land holder. velopment and Mines, 6th Floor,

42A05NE0171 2.17929 WHITESIDES

900 0240.

RECEIVED
NOV 21 1997 4:00
GEOSCIENCE ASSESSMENT OFFICE

Instruct

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

Name: Falconbridge Ltd	Client Number: 130679
Address: P.O. Box 1140, 571 Mountain Rd	Telephone Number: (705) 267-1188
Timmins Ont	Fax Number: 264-6080
Name	Client Number
Address	Telephone Number
	Fax Number

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

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

Work Type: Induced Potential Survey	Office Use
	Commodity
	Total $ Value of Work Claimed: $7,250
Dates Work Performed: From 21 (Day) 07 (Month) 1997 (Year) To 23 (Day) 07 (Month) 1997 (Year)	NTS Reference
Global Positioning System Data (if available) — Township/Area: Whitesides	Mining Division: Porcupine
M or G-Plan Number: Cr 3230	Resident Geologist District: Timmins

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

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

Name: Alexandra Savic JVX Ltd	Telephone Number: (905) 731-0972
Address: 60 West Wilmot Street Richmond Hill	Fax Number: 731-9312
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent		Date: 23 Oct 97
Agent's Address: 19 Berry Hill Waterdown	Telephone Number: (905) 689-6276	Fax Number: 690-2175

0241 (02/96)

NOV 20 '97 14:43 7052645955 PAGE.01

GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent — Date: 23 Oct 97

Agent's Address: 19 Berry Hill Waterdown — Telephone Number: 905 689-6276 — Fax Number: 690-2175

0241 (02/96)

~~February~~ Jan. 27/98

W9760.00536

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

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	111 5753 ✓	1	1208			1208
2	111 5757 ✓	1	1208			1208
3	111 5751 ✓	1	1208			1208
4	111 5752 ✓	1	1208			1208
5	111 5758 ✓	1	1208			1208
6	111 5764 ✓	1	1210			1208
7						
8						
9				2-1 2929		
10						
11						
12						
13						
14						
15						
		Column Totals				

RECEIVED
OCT 29 1997
3:30
GEOSCIENCE ASSESSMENT OFFICE

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

Signature of Recorded Holder or Agent Authorized in Writing	Date
Peter Vamos	23 Oct. 97

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

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

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

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

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario | Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9760.00586

rsonal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under ction 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and nes, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Specbol IP.	3 km	2,050.83	6152.50
Report Maps + Labour			1,100.00
sociated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	7,250.50

2.12920

RECEIVED
OCT 2 1997
3:30
GEOSCIENCE ASSESSMENT OFFICE

lculations of Filing Discounts:

Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

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

te:
Work older than 5 years is not eligible for credit.
recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a quest for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the nister may reject all or part of the assessment work submitted.

rtification verifying costs:

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

Signature: P.J. Vamos | Date: 23Oct97

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (888) 415-9846
Fax: (705) 670-5881

March 4, 1998

FALCONBRIDGE LIMITED
P.O. Box 1140
571 Moneta Avenue
Timmins, ONTARIO
P4N 1P3

Dear Sir or Madam:

Submission Number: 2.17929

Subject: Transaction Number(s):		**Status**
	W9760.00536	Approval After Notice

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

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

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

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

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

Correspondence ID: 11993

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17929

Date Correspondence Sent: March 04, 1998 **Assessor:** Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00536	1115753	WHITESIDES	Approval After Notice	March 04, 1998

Section:
14 Geophysical IP

The revisions outlined in the Notice dated January 22, 1998, have been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

Correspondence to:
Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Peter J. Vamos
WATERDOWN, ON

FALCONBRIDGE LIMITED
Timmins, ONTARIO

Correspondence ID: 11993

REFERENCES

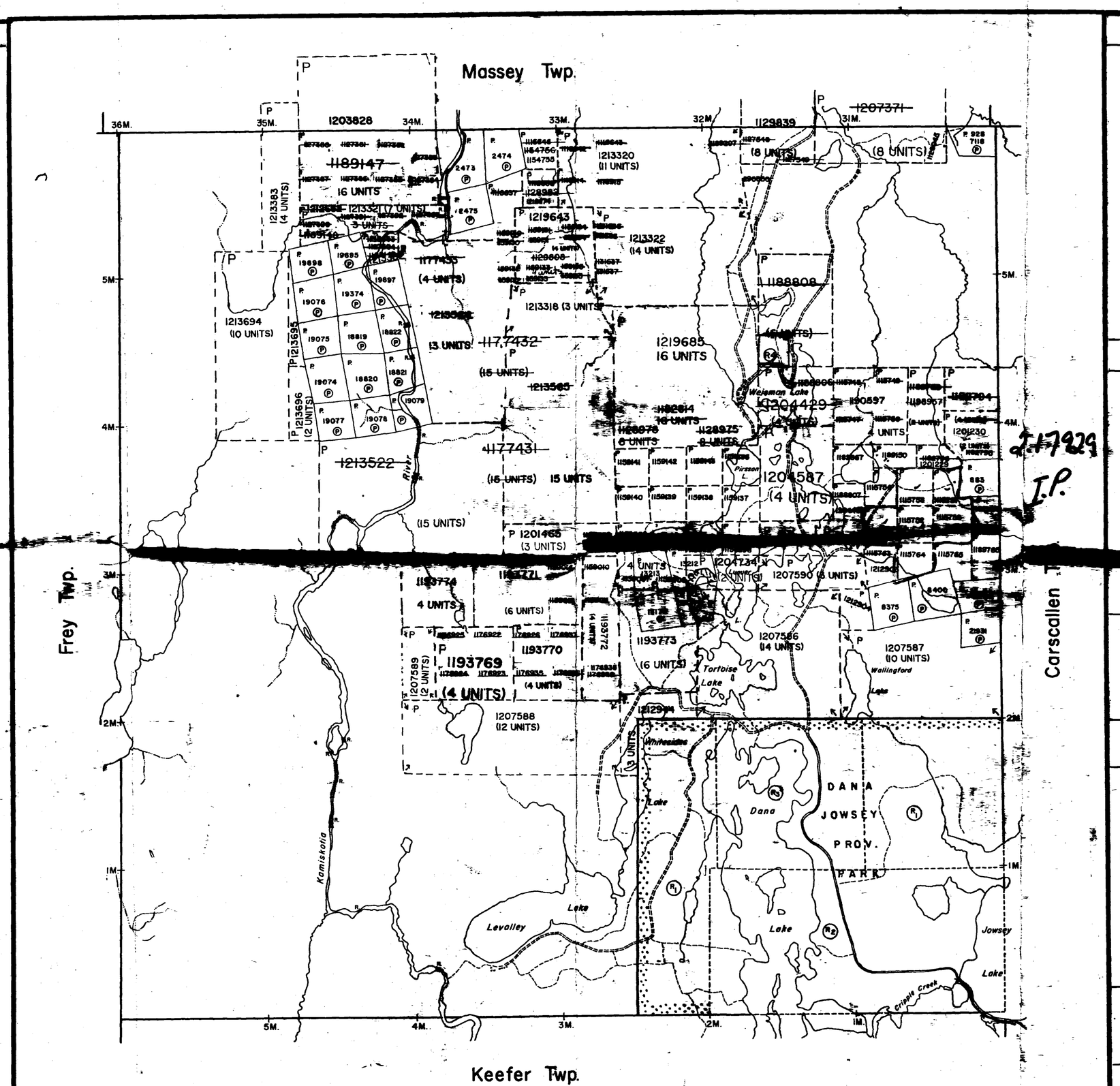
AREAS WITHDRAWN FROM DISPOSITION

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

	Description	Order No.	Date	Disposition	File
R1	DANA AND JOWSEY LAKES PARK RES. SEC. 36/80	W.66/83		S.R.O. M.R.O.	171506
R2	SEC. 43/70		FEB. 3/86	M. & S.R.	171506
R3	SEC. 43/70		28/1/71	M. & S.R.	171506

R4 MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P 49/94 IER DATED 94-MAY-02

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	P or ●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	◧
" , MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	®
CANCELLED	⊗

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

SCALE: 1 INCH = 40 CHAINS

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

TOWNSHIP

WHITESIDES

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS

MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE

DATE OF ISSUE
MAR 05 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

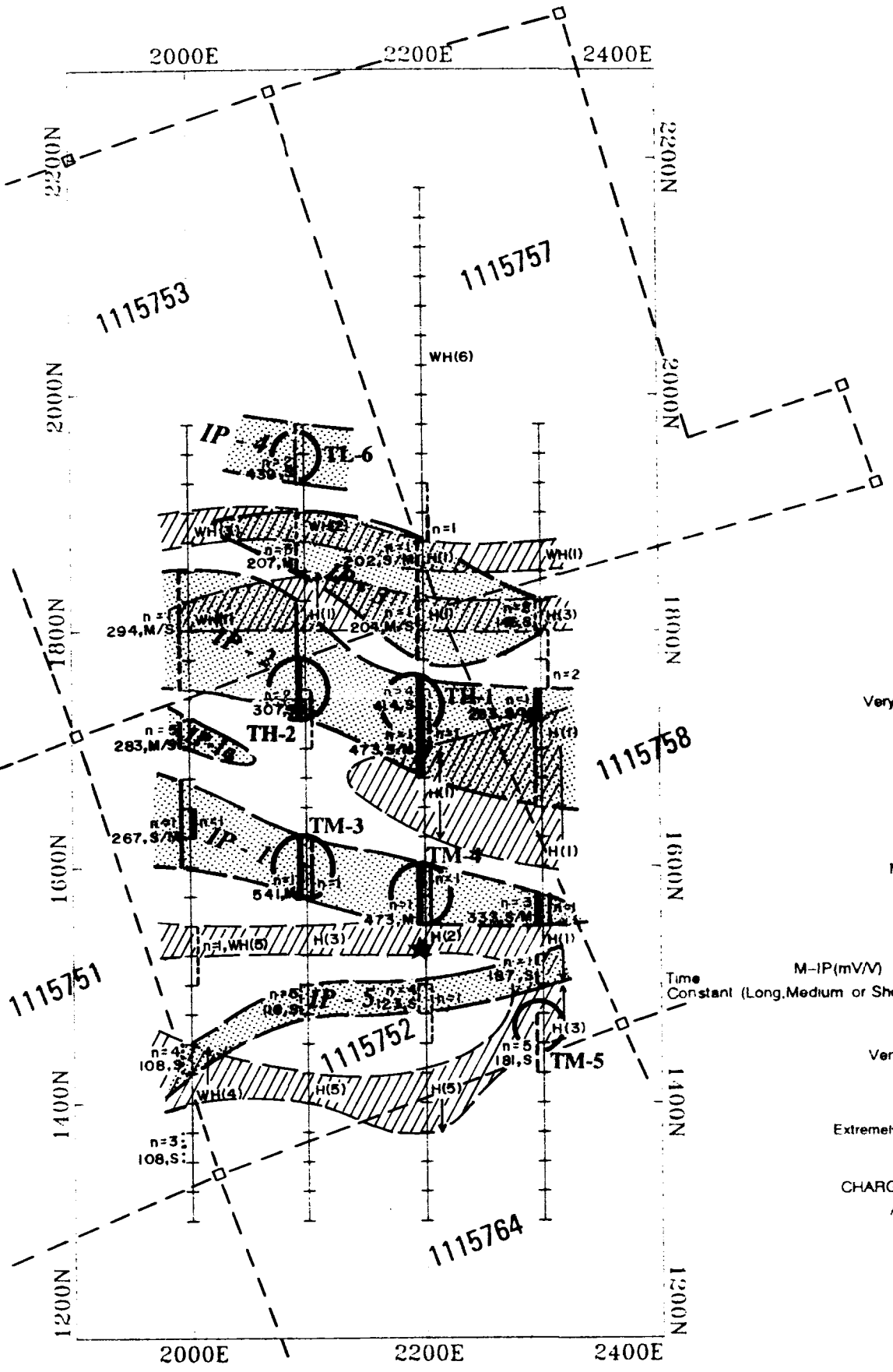
Ontario Ministry of Natural Resources — Land Management Branch

Date FEBRUARY 1985
ACTIVATED JUNE 30, 1992 BY D.C.

Number G-3230

2.17929 I.P.

Bob K.



IP-1 ----------Chargeability Zone

----------High Resistivity Zone

○ - Exploration Target

TH - High priority

TM - Medium Priority

TL - Low Priority

★ **Iron formation**

Very Strong	WH(2) Weak High Resistivity, n=2 H(1) - High Resistivity, n=1 VH(2) - Very High Resistivity, n=2	
Strong	Strong Resistivity Low	
Medium	Medium Resistivity Low	
Weak	Weak Resistivity Low	
Very Weak	Very Weak Resistivity Low	
Extremely Weak		
CHARGEABILITY ANOMALY	RESISTIVITY ANOMALY	

M-IP(mV/V) 517 . L
Time Constant (Long, Medium or Short)

Scale 1:5000

100 0 100 200

(metres)

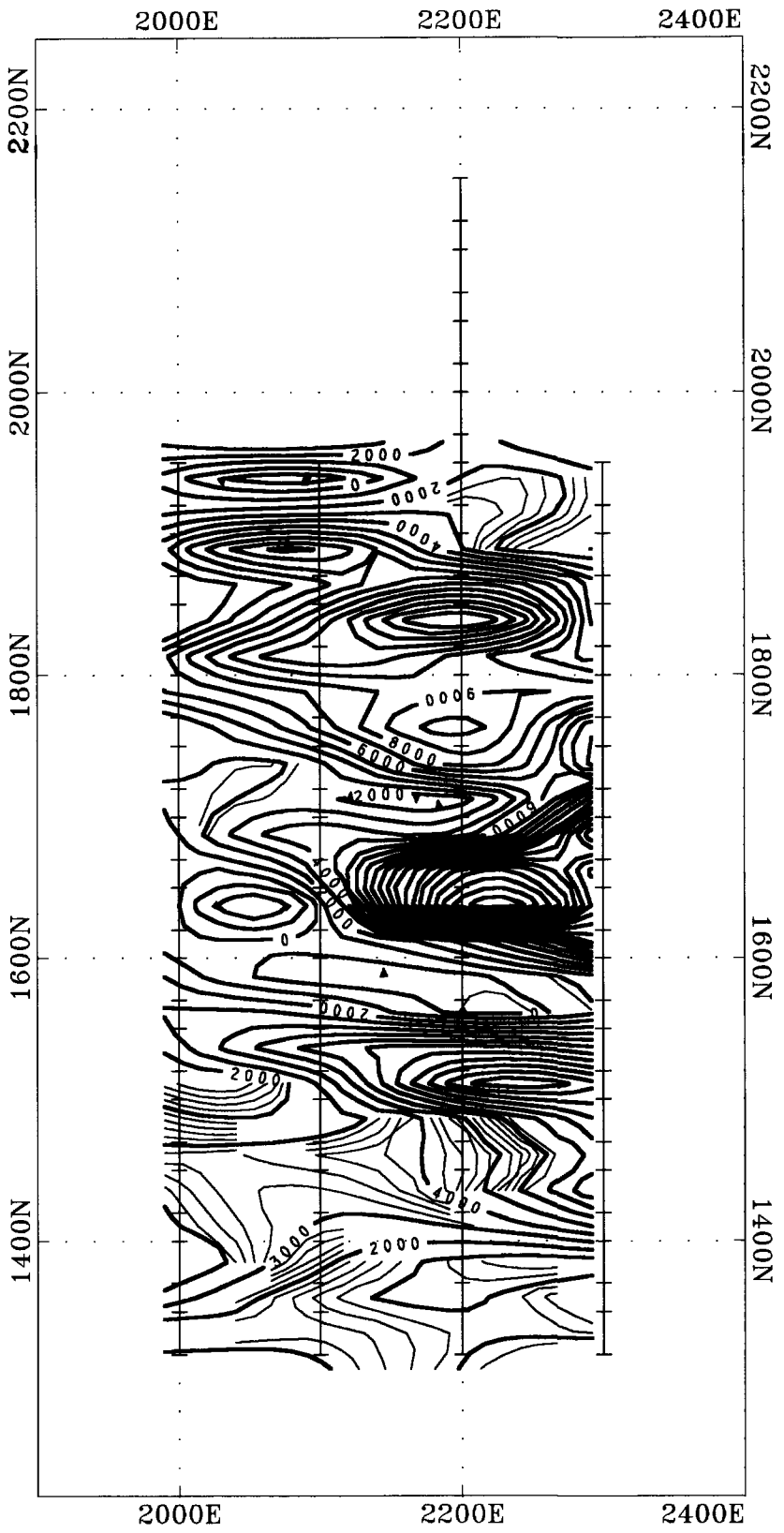
Plate 7

PROSPECTORS ALLIANCE CORPORATION

COMPILATION MAP
FALCONBRIDGE OPTION
WHITESIDES TWP

NTS 42 A/5

JVX Ltd. 9753



Scale 1:5000

100 0 100 200

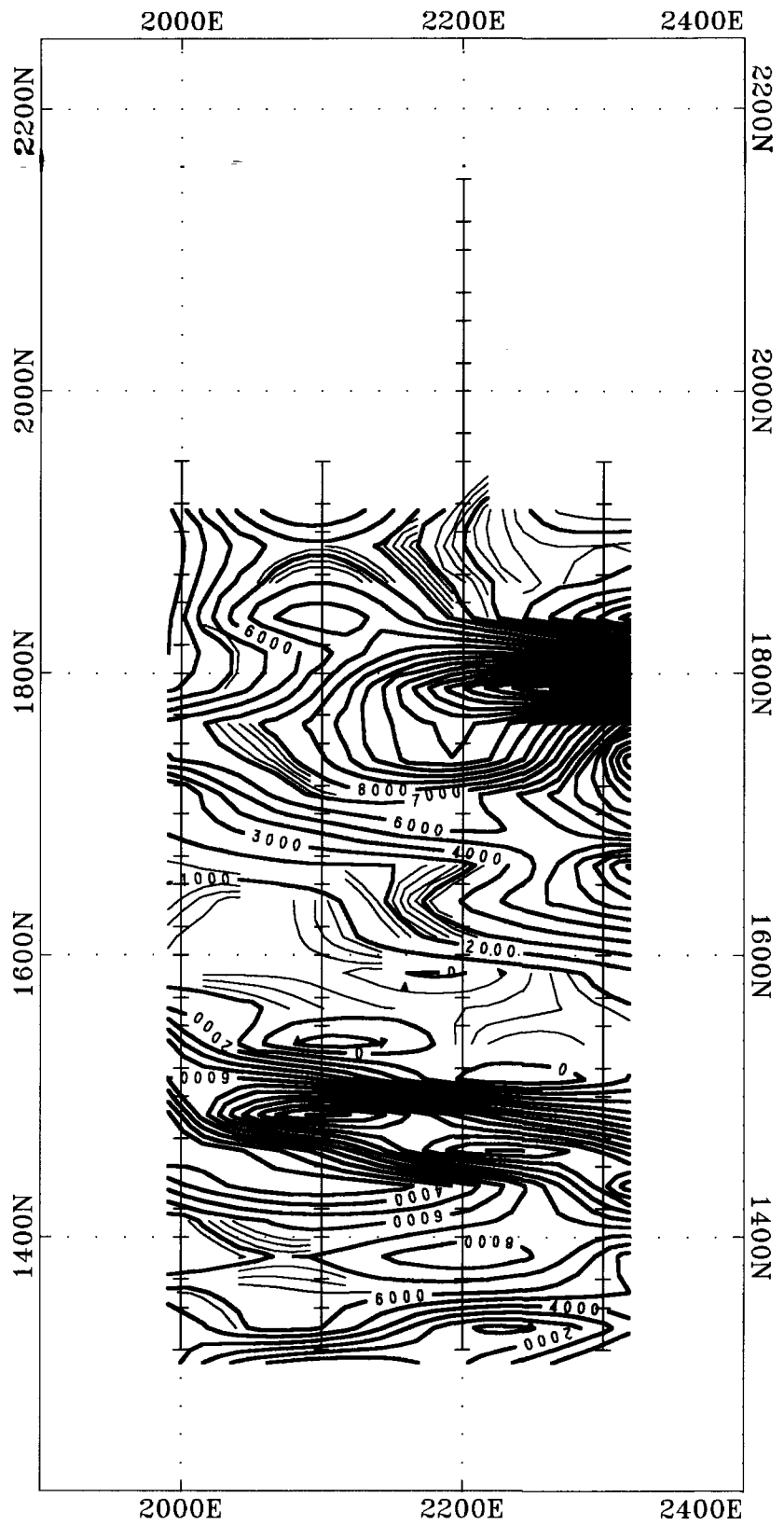
(metres)

42A05NE0171 2.17929 WHITESIDES

220

Plate 5

PROSPECTORS ALLIANCE CORPORATION
FALCONBRIDGE OPTION **WHITESIDES TWP**
Resistivity (n=2) Map
JVX Ltd. 9753



2.17929

Scale 1:5000

100 0 100 200

(metres)

42A05NE0171 2.17929 WHITESIDES

230

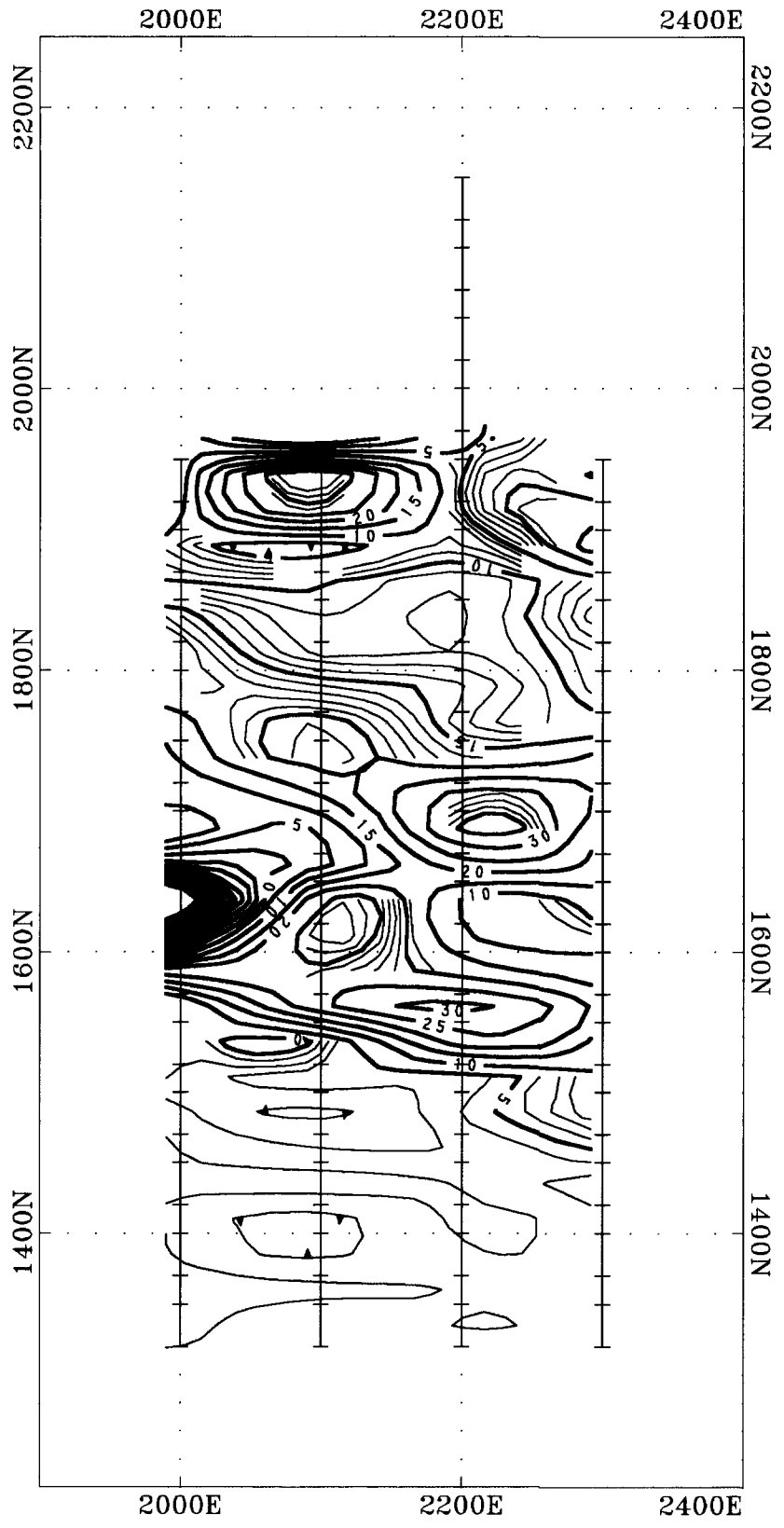
Plate 5a

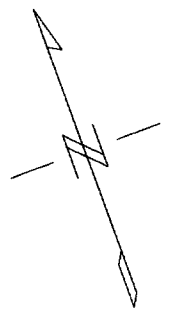
PROSPECTORS ALLIANCE CORPORATION

FALCONBRIDGE OPTION
WHITESIDES TWP

Resistivity (n=4) Map

JVX Ltd. 9753





Scale 1:5000

100 0 100 200

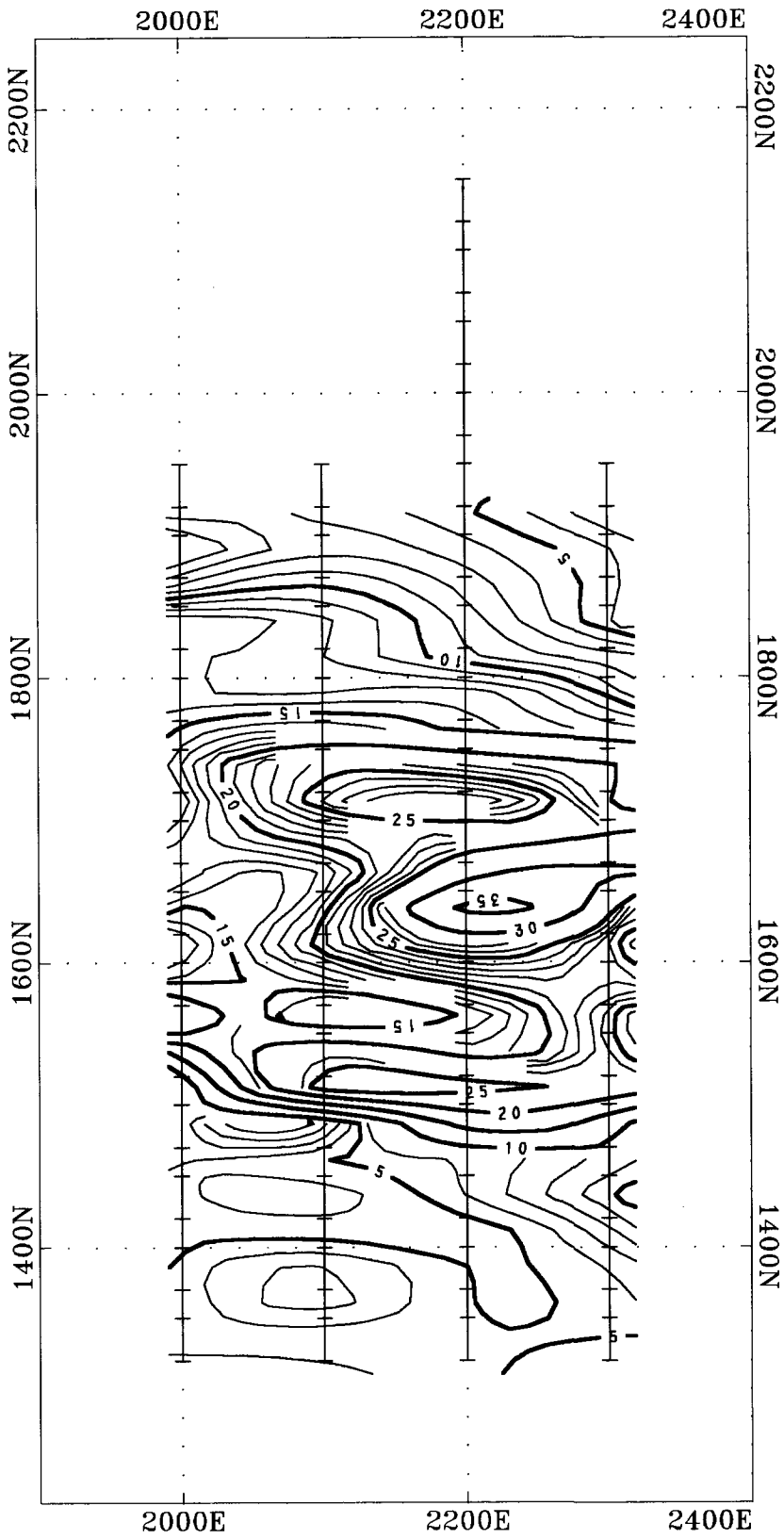
(metres)

42A05NE0171 2.17929 WHITESIDES

240

Plate 6

PROSPECTORS ALLIANCE CORPORATION
FALCONBRIDGE OPTION **WHITESIDES TWP**
Chargeability (n=2) Map
JVX Ltd. 9753



Scale 1:5000

100 0 100 200

(metres)

42A05NE0171 2.17929 WHITESIDES

250

Plate 6a

PROSPECTORS ALLIANCE CORPORATION
FALCONBRIDGE OPTION WHITESIDES TWP
Chargeability (n=4) Map
JVX Ltd. 9753