REPORT OF WORK

on the 2.18442

SPANRIDE PROPERTY

English and Beemer Townships, ON.
Porcupine Mining Division

for

STARFIRE MINERALS INC.

April 17, 1998 Geoserve Canada Inc. Rodney A. Bardoux

1.0 SUMMARY

A time domain induced polarization survey was completed on the Spanride Property in September, 1997. Several areas of coincident chargeability and resistivity anomalies were located by the survey, three of which warrant further work. The survey also helped to define certain structural and lithological features of the property. Diamond drilling of the IP anomalies is recommended.

TABLE OF CONTENTS

LIST OF PLANS, SECTIONS AND FIGURES

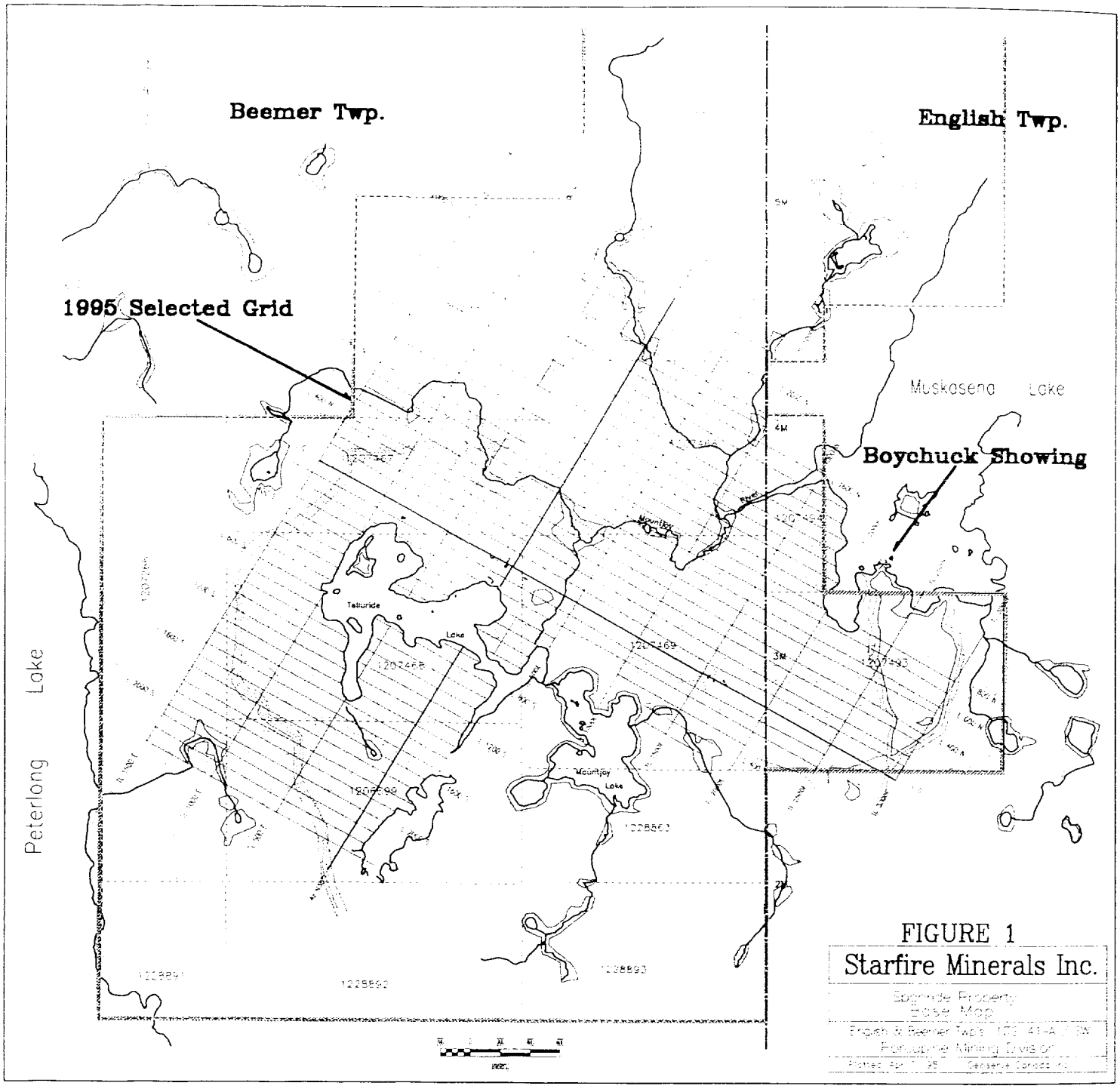
2.0 INTRODUCTION

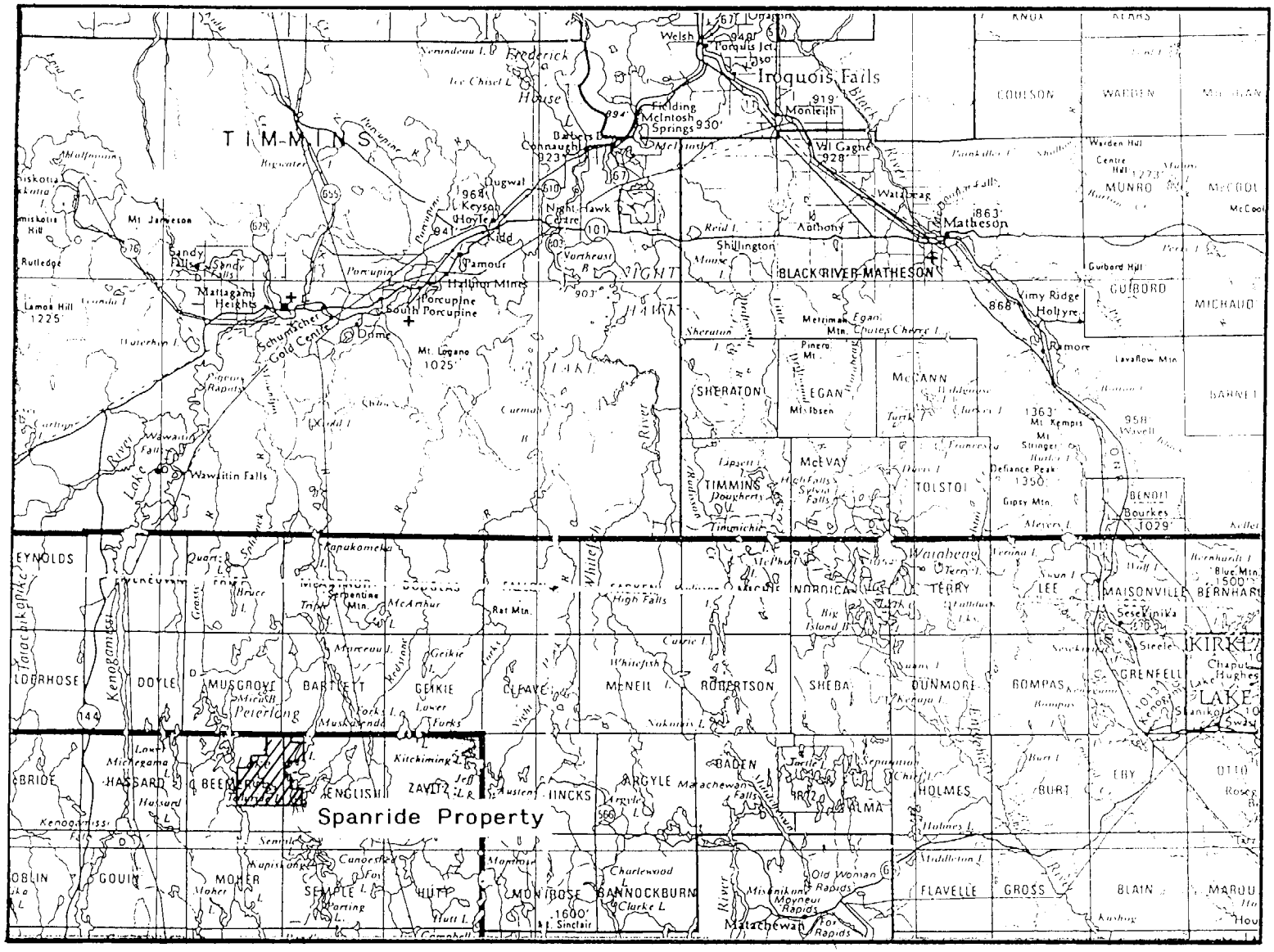
Starfire Minerals Inc explored their Spanride Property in 1997 with a time domain induced polarization survey. The property is comprised of seventeen (17) contiguous claims (96 units) in Beemer and English Townships, Porcupine Mining Division, northeastern Ontario. The property is roughly fifty kilometers south of Timmins, ON, in the Peterlong Lake area. The property, situated within the Abitibi Greenstone Belt in the Peterlong Assemblage is a good prospect for base metals and precious metals. The Perterlong Assemblage is said to be dominantly magnesium-rich tholeiitic metavolcanic rocks (Pyke 1978, Geology of Ontario, OGS Vol 4, part 1, 1991). There are several gold showings on the property and one copper showing (Peterlong Lake, Geological Map 2345, Pyke 1972, OGS) which encourages exploration.

3.0 PREVIOUS WORK

Exploration on the property dates back to the 1930's, when gold was discovered at the Boychuck Showing. The showing apparently consists of quartz stringers and lenses within an east-northeast striking shear zone in intermediate to felsic metavolcanics.

In 1995, Driver Resources completed 137 km of line cutting, a total field magnetics survey and a limited induced polarization survey. The results of this work were encouraging enough to lead to expanded IP coverage in the current survey.


Beemer Twp.
English Twp.
1995 Selected Grid
Boychuck Showing
Muskosend Lake
Peterlong Lake
Telluride Lake
Mountjoy Lake
FIGURE 1
Starfire Minerals Inc.



(3)

N

Scale: 1:600 000

Miles 10 0 10 20 30 40 Miles

Kilometres 10 0 10 20 30 40 50 60 Kilometres

Spanride Property

Location Map

Figure 2

4.0 1997 IP SURVEY

4.1 Procedure

Work in 1997 consisted of expanding the previous IP coverage on the 1995 grid. Crews from Geoserve Canada Inc., used the Androtex TDR-6 Receiver and Scintrex TSQ-3 Transmitter to conduct the time domain Induced Polarization survey. The pole-dipole array used a 50 m dipole separation and read n=1 to n=6 at 50 m intervals. A total of 35.45 km in 14 lines were run on two separate areas of the property.

4.2 Results

Results of the survey are shown on the IP sections and plans which accompany this report. Note that the plans also incorporate the data from the previous IP survey. Several coincident chargeability and resistivity anomalies are seen.

The most significant of these is a wide area of high chargeability located south of Telluride Lake. This may represent an extensive area of sulphidization associated with the intrusion of the Peterlong Lake Batholith. Within this area, chargeability ranges from 20 to 30 mV/V. Resistivity is highly variable. The area near the southern end of Telluride Lake is a resistivity low and appears to extend to at least L1600S, 350W. This may represent a north south fault. Areas of moderate to high resistivity, up to 57993 ohm/m may represent areas of silicification and/or carbonatization. Of particular interest is a "pant leg" chargeability anomaly centred near 0+50W on Lines 1000S and 1200S. This anomaly is not fully defined due to the limit of the survey.

A known gold occurrence northeast of Telluride Lake is located on the flank of a broad, east-west trending resistivity high/chargeability high. This also trends toward another gold showing on the shore of Telluride Lake, but swings to the south in the east end.

An isolated chargeability/resistivity high near Line 200N, 2150E is roughly coincident with a north-south fault mapped by Pyke (1978).

A north-south trending chargeability/resistivity high from L400N, 800W to L0, 500W coincides with a magnetic high outlined in 1995. This probably represents a diabase dyke.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The induced polarization survey was successful in outlining at least three areas of anomalous resistivity/chargeability on the property, which may represent areas of alteration and disseminated sulphide mineralization. The survey also more fully defined certain structural and lithological trends.

A geological compilation, incorporating all past work in the area, especially diamond drilling would be helpful in interpreting some of the anomalies. Following that the anomalies south and northeast of Telluride Lake, and the one at L200N, 2150E should be tested by diamond drilling.

Respectfully Submitted For Approval,

R Barber

Rodney A Barber

Apr 20, 1998

Date

6.0 CERTIFICATE OF QUALIFICATIONS

I, **Rodney Alan Barber**, residing at 119 Lois Crescent, Timmins, ON., certify that:

1. I hold a B.Sc. (Honours) in Geology, obtained from Laurentian University, Sudbury, ON in 1988.

2. I have worked within the mineral exploration and mining industries since 1988, with an emphasis on northeastern Ontario for the last 7 years.

3. This report is the product of the examination of the survey results which accompany this report, published geological data and a general knowledge of the Timmins area.

4. I have no direct interest in Starfire Minerals Inc or the Spanride Property.

Apr 20, 1998
Date

R Barber
Rodney A Barber

Induced Polarization

·**Androtex TDR-6;** The TDR-6 induced polarization receiver is a highly cost-effective instrument for the detailed measurements of IP effects and apparent resistivity phenomenon. Up to six dipoles can be measured simultaneously, thus increasing production. A wide input voltage range, up to 30V, simplifies surveys over the narrow shallow conductors of large resistivity contrast. Input signal indicators are provided for each dipole. All data are displayed on a 2x16 character display LCD module and any selected parameters con be monitored on a separate analogue meter for noise evaluation during the stacking/averaging. Although the TDR-6 receiver is automatic it allows full control and communications with the operator at all times during measurements. Since the input signal synchronizes the receiver at each cycle, the transmitter timing stability is not critical and any standard time domain transmitter can be used. Data are stored in the internal memory with a capacity of up to 2700 readings (450 stations). The data format is directly compatible with Geosoft without the necessity of an instrument conversion program.

Features

·Wide input signal range ·Automatic self-potential cancellation ·Staking/averaging of Vp and M for high measurement accuracy in noisy environments ·High rejection of power line interference ·Continuity resistance test ·Switch selectable delay and integration time ·Multiwindow chargeability measurements ·Digital output for data logger ·Six channel input provided ·Compatible with standard time domain transmitters ·Alpha-numeric LCD display ·Audio indicator for automatic SP compensation ·Portable

Specifications

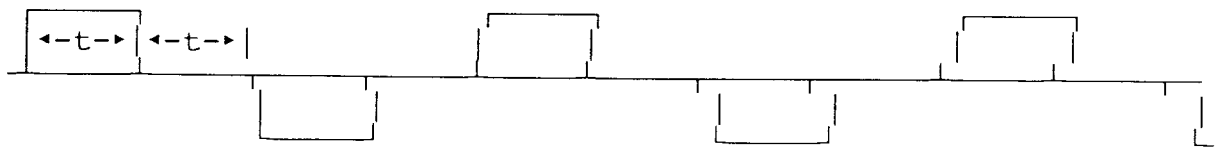
·Dipole	n1 to n6 simultaneously
·Input Impedance	10 megohm
·Input Voltage (Vp)	range:100µV to 30 Volts (automatic), accuracy:.25%, resolution:10µV.
·Self Potential (SP)	range:±2V,accuracy:1%,Automatic compensation ±1
·Chargeability (M)	range:300mV/V,accuracy:.25%,resolution:.1mV/V
·Automatic Stacking	2 to 32 cycles
·Delay Time	programmable
·Integration Time	programmable for each gate (10 gates)
·Total Chargeability Time	During integration time of all gates
·Synchronization Signal	programmable from channel 1 to 6
·Filtering	power lines:dual notch 60/180Hz or 50/150Hz, 100dB, other:Anti-alias, RF and spike rejection.
·Internal Test	Vp=1V,M=30mV/V
·Ground resistance test	0 to 200 Kohm
·Transmitting Time	1,2,4 and 8 sec pulse duration, ON/OFF.
·Digital Display	Two line 16 alphanumeric LCD.
·Analogue Meters	Six-monitoring input signal and course resistance testing.
·Controls	Push button reset, toggle start-stop, rotary Rs-in-test, rotary (data scroll) display, rotary (data scroll) Dipole, keypad 16 key 4x4.
·Memory Capacity	2700 readings, 450 stations (n1 to n6).
·Data Output	serial I/O RS-232 (programmable baud rate), Geosoft compatible output format.
·Temperature Range	Operating:-30°to +50°C,storage -40° to +60°C.
·Power Supply	Four 1.5V D cells.
·Dimensions	31x16x29 cm
·Weight	6.5 kg (14.3lbs)

Scintrex TSQ-3; The Motor-Generator set consists of a reliable Briggs and Stratton four stroke engine, coupled to a brushless permanent magnet alternator. The transmitter design employs solid-state components both for power switching and control circuits. Output waveforms and frequencies are selectable; square wave continuous for frequency domain and square wave interrupted for time domain. The programmer is crystal controlled for high stability. While care still must be taken when working with high voltages, the TSQ-3 features overload, underload and thermal protection for maximum safety. Stabilization circuitry ensures that the output current (Ig) is automatically controlled to within ±.1% for up to 20% external load or ±10% input voltage variations. Voltage, current and circuit resistance are presented on a LED digital display. The system functions as follows; The motor turn turns the generator (alternator) which produces 800Hz, three phase, 230VAC. This energy is transformed upwards according to a front panel voltage setting in a large transformer housed in the TSQ-3. The resulting AC is then rectified is a rectifier bridge. Commutator switches then control the DC voltage output according to the waveform and frequency selected.

Specifications

·Output Power	3000 VA maximum
·Output Voltages	300,400,500,600,750,900,1050,1200,1350 & 1500V
·Output Current	10 amperes maximum
·Output Current Stability	Automatic controlled to within ±.1% for up to 20% external load variation or up to ±10% input voltage variation.
·Stabilization Protection	(Over-range) High Voltage shuts off automatically if the control range exceeds 20%.
·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.
·Current Reading Resolution	10mA on coarse range (1-10A) and 1mA on fine range (0-2A).
·Time Domain Cycle	t:t:t:t; ON:OFF:ON:OFF:automatic
·Polarity Change	Each 2t, automatic.
·Pulse Duration	Standard t=1,2,,4,8,16 and 32 seconds, optional
·Stability	Crystal controlled to better than .1% with external clock option better than 20ppm over operating temperature range.
·Efficiency	.78
·Operating Temperature	Range; -30°C to +50°C
·Overload Protection	Automatic shut-off at 3000VA.
·Underload Protection	Automatic shut-off at current below 85mA.
·Thermal Protection	Automatic shut-off at internal temp. of 85°C.
·Dimensions	350cm x 530cm x 320cm (transmitter).
·Motor	Briggs and Stratton, four stroke 8HP.
·Alternator	Permanent magnet type, 800Hz, three phase 230VAC at full load.
·Output Power	3000 VA maximum.
·Dimensions	520cm x 715cm x 560cm (generator assembly).
·Weight	Transmitter;25.0kg, Generator Assembly 72.5kg.

Output DC interrupted squarewave used for survey.



t= 2 seconds, ON & OFF time. Total duty Cycle Used; 8 seconds.

IP Method

The phenomena of Induced Polarization (IP) was reported as early as 1920 by Schlumberger. The IP survey technique allows a variety of arrays (which all have advantages and disadvantages) and reads two separate elements;(1)The chargeability or IP effect (M) and Apparent Resistivity. The IP technique is useful for detecting sulphide bodies and is also useful as a structural mapping tool. The IP effect is the measurement of the residual voltage in rocks that remains after the interception of a primary voltage. It includes many types of dipolar charge distributions set up by the passage of current through consolidated or unconsolidated rocks. Among the causes are concentration polarization and electrokinetic effects in rocks containing electronic conductors such as metallic sulphides and graphite. The term overvoltage applies to secondary voltages set up by a current in the earth which decays when it is interrupted. These secondary effects are measure by a receiver via potential electrodes. The current flow is actually maintained by charged ions in the solutions. The IP effect is created when this ionic current flow is converted to electronic current flow at the surface of metallic minerals (or some clays, and platy silicates). The IP method is generally used for prospecting low grade (or disseminated) sulphide ores where metallic particles, sulfides in particular, give an anomalous response. Barren rock (with certain exceptions) gives a low response. In practice, IP is measured in one or two ways;(1) In a pure form, a steady current of some seconds (nominally 2 seconds) is passed and abruptly interrupted. The slowly decaying transient voltage existing in the ground are measured after interruption. This is known as the time domain method. The factor Vs/ Vp is the integrated product for a specified time, and several readings are averaged (suppressing noise and coupling effects). The resultant chargeability, M is essentially an unitless value but it is usually represented in mV/V. The second method entails a comparison of the apparent resistivity using sinusoidal alternating currents of 2 frequencies within the normal range of 0.1 to 10.0 cps.. The factor used to represent the IP effect by this frequency domain method is the percent frequency effect (PFE) and is defined by (R1-R2)/R1x100% where R1 and R2 are the apparent resistivities at the low and high frequencies.

Use and Limitations

The effective depth of penetration of any IP survey is a function of the resistivity of the surface layer('s) with respect to the resistivity of the lower layer. All arrays have different effects from this resistivity contrast, some are less affected than others. When the surface layer is 0.01 of the lower layer, the effective penetration is very poor hence the term masking. Masking occurs most often in areas of thick clay cover. The size of the target therefore becomes important when detection is desirous under a conductive surface layer. The frequency domain methods are the most adversely affected by masking as inductive coupling can be much greater than the response.

Standard Definitions of Chargeability

The IP parameter, chargeability (M) varies with time. For practical reasons the entire decay curve is not sampled. Instead the secondary voltage is sampled one or more times at various intervals. Because the secondary voltage is received at extremely low levels in many prospecting situations, measurements of its amplitude at any given time is extremely susceptible to noise. Therefore, the secondary voltage is usually integrated for a period of time called a gate. Thus, if the noise has a zero mean, the integration will tend to cancel the noise. The Newmount M Factor is a standard time domain IP parameter. The gate delay, of 80 mSeconds (used by the TDR-6) was chosen to allow time for normal electromagnetic effects and capacitive coupling effects between the transmitter and receiver to attenuate so that the secondary voltage consists only of the IP decay voltage.
The TDR-6 total integration time of 1580 milliSeconds (gate) is divided into ten individual gates. The time-constant of the IP dispersion curve, Cole-Cole dispersion (W H Pelton, 1977), obtained from the ten individual gates (windows) is directly related to the physical size of the metallic particles. This data is available at the clients request since all of the obtained field data is archived (downloaded) to computer.

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)
W9860.00505
Assessment Files Research Imaging

[redacted]

42A03SW2001 2.18442 ENGLISH

900

...rity of subsections 65(2) and 66(3) of the [redacted] Act. Under section 8 of the ...ed to review the assessment work and correspond with the mining land holder. ...ining Recorder, Ministry of Northern Development and Mines, 6th Floor,

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

2.18442

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

Name STARFIRE MINERALS INC.	Client Number # 300371
Address 850 WEST HASTING STREET (SUITE 301)	Telephone Number 604-623-3101
VANCOUVER, B.C V6C 1E1	Fax Number 604-623-3109
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

		Office Use
Work Type LINECUTTING / I.P SURVEY		Commodity
		Total $ Value of Work Claimed $ 58,491
Dates Work Performed From 07 07 97 (Day Month Year) To 08 05 98 (Day Month Year)		NTS Reference
Global Positioning System Data (if available)	Township/Area BEEMOK/ENGLISH	Mining Division Porcupine
	M or G-Plan Number M-0656/G-3938	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 GEOSERVE CANADA INC	Telephone Number 705-235-8661
Address 99 BRUCE ST SOUTH PORCUPINE PON 1HO	Fax Number 705-235-8038
Name	Telephone Number
Address	Fax Number
Name 2.18442	Telephone Number
Address	Fax Number

RECEIVED
9:30 AM
MAY 12 1998
GEOSCIENCE ASSESSMENT OFFICE

RECEIVED
MAY 11 1998
3:30 PM
PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, MIKE CARON (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 MAY 8, 1998
Agent's Address P.O BOX 362 PORCUPINE ONT	Telephone Number 705-235-8660	Fax Number 705-235-8661

0241 (02/96)

Deemed approved August 09 1998 SUN-ICO

...here work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Photocopy Touch copy for counting

2.18442

	Mining Claim Number. Only 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		
eg	1234568	2	$ 8,892	$ 4,000		$4,892
1	1206699	15	$7,837.00	$6,000.00	$1,835.00	Ø
2	1207466	15	$10,477.00	$6,000.00	$4,477.00	Ø
3	1207467	12	$8,580.00	$4,800.00	$3,780.00	Ø
4	1207468	9	$7,177.00	$3,600.00	$3,577.00	Ø
5	1207469	16	$10,643.50	$6,400.00	$3,930.50	$313.00
6	1203991	16	Ø	$6,400.00	Ø	Ø
7	1203992	16	Ø	$6,400.00	Ø	Ø
8	1203993	12	Ø	$4,800.00	Ø	Ø
9	1207493	12	$8,828.50	$4,800.00	$4,028.50	Ø
10	1207494	3	$2,228.50	$1,200.00	Ø	$1,028.50
11	1207266	16	$2,726.50	Ø	$1,978.50	$748.00 750
12	1203994	15	Ø	$6,000.00	Ø 1971	Ø
13						
14						
15						
	Column Totals		58,487.00	$56,400.00	$23,598.50	$2,089.00

I, MIKE CARON (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
[signature]	May 8th/98

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):

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MAY 11 1998
GEOSCIENCE ASSESSMENT OFFICE

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

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MAY 11 1998
3:30PM
PORCUPINE MINING DIVISION

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

0241 (03/97)

For Office Use Only

Received Stamp

RECEIVED
MAY 11 1998
3:30PM
PORCUPINE MINING DIVISION

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

0241 (03/97)

RECEIVED
9:30 AM
MAY 12 1998
GEOSCIENCE ASSESSMENT OFFICE

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9860.00505

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd 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
REFURBISHING LINE	35.45 Km	150.00 PER	$5,317.50
I.P SURVEY	35.45 Km	1500.00 PER	$53,175.00
	2.18442		
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	$58,492.50

Calculations of Filing Discounts:

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

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

Note:

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

Certification verifying costs:

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

0212 (03/97)

RECEIVED
MAY 11 1998
3:30 PM
PORCUPINE MINING DIVISION

Signature: [signature] Date: MAY 8/98

RECEIVED
9:30 AM
MAY 12 1998
GEOSCIENCE ASSESSMENT OFFICE

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

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

July 27, 1998

STARFIRE MINERALS INC.
BOX 10
Suite 301, 850 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C-1E1

Dear Sir or Madam:

Submission Number: 2.18442

Subject: Transaction Number(s):		**Status**
	W9860.00505	Deemed Approval

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

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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 Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

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

Correspondence ID: 12592

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18442

Date Correspondence Sent: July 27, 1998 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00505	1206699	BEEMER, ENGLISH	Deemed Approval	July 23, 1998

Section:
14 Geophysical IP

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

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

Mike Caron
PORCUPINE, ONTARIO

STARFIRE MINERALS INC.
VANCOUVER, B.C.

Correspondence ID: 12592

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

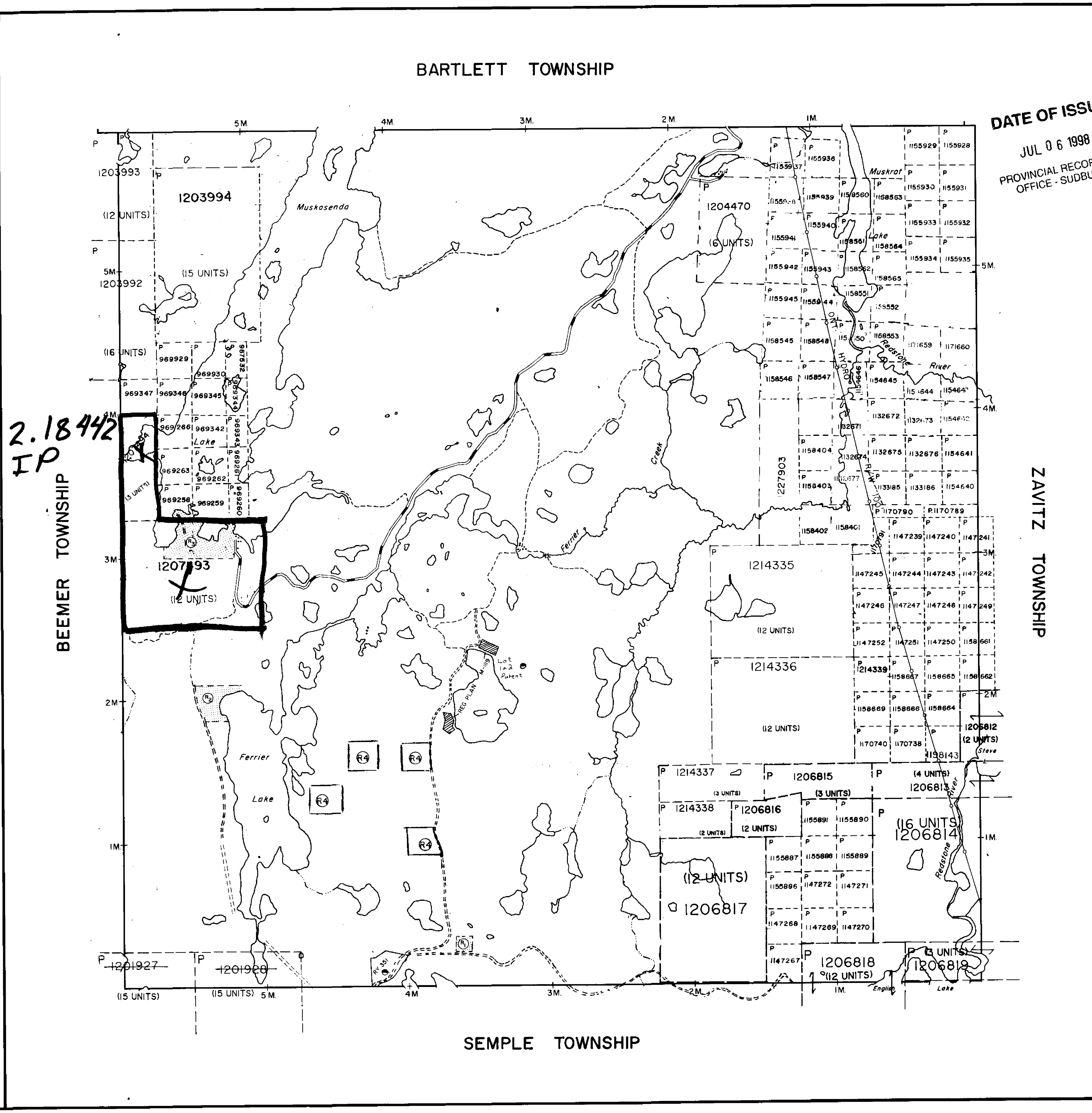
Description	Order No.	Date	Disposition	File
(R1) SEC.36/80	W.18/77	28/02/77	S.R.O.	83582
(R2) SEC.36/80	W.19/78	10/04/78	S.R.O.	188543
(R3) SEC.36/80	W.30/78	02/06/78	S.R.O.	192219

(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 43/94 NER DATED 94-MAY-02

DATE OF ISSUE
JUL 0 6 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

42A03SW2001 2.18442 ENGLISH 200

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



LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◓
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

F2

SCALE: 1 INCH = 40 CHAINS

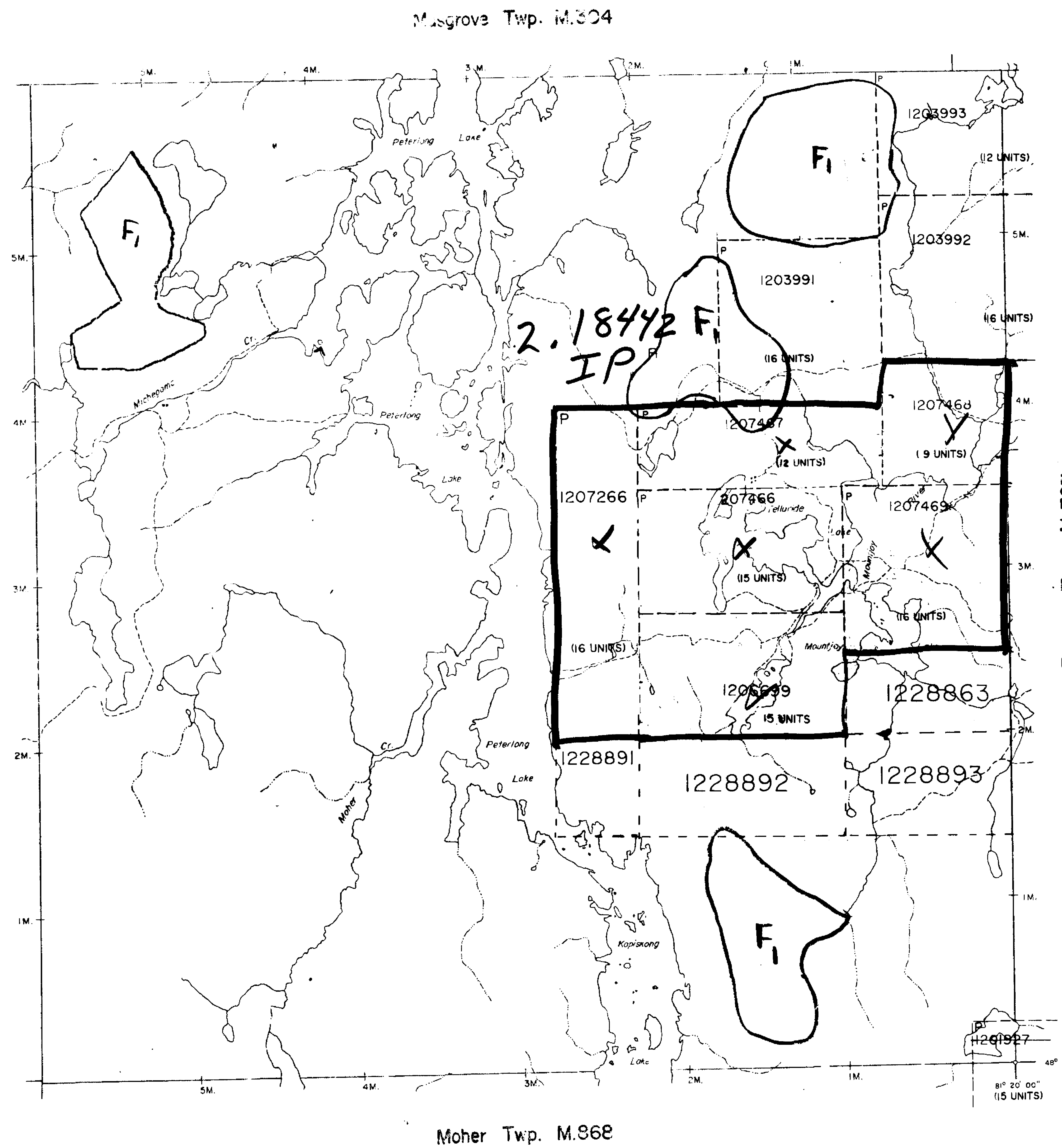
FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

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

Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario

Date SEPTEMBER 1990
ACTIVATED: SEPT. 25/90 SR.

Number
G-3938



THE TOWNSHIP OF

BEEMER

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENSE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED
LAND USE PERMIT

NOTES

400' Surface Rights Reservation around all lakes and rivers.

Flooding Rights in Peterong and Kapiskong lakes assigned to H.E.P.C. LO 7191 File No. 1162 Vol. 4

F1 THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1994/95 1995/96 FURTHER INFORMATION ON FILE.

DATE OF ISSUE

JUL 0 6 1998

PROVINCIAL RECORDING OFFICE SUDBURY

PLAN NO. M.656

DEPARTMENT OF MINES
— ONTARIO —

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.

Beemer Twp.

English Twp.

Muskasena Lake

Peterlong Lake

Telluride Lake

Mountjoy River

Mountjoy Lake

1203993
1203994
1203992
1203991
1207468
1207467
1207494
1207266
1207469
1207466
1207493
206699
1206700
1228891
1228892
1228893

5M
4M
3M
2M

TL 1500W
TL 1000W
TL 500W
TL 500E
TL 1000E
TL 1500E
TL 2000E
TL 2500E
TL 3000E
TL 1500 E
TL 1000E
TL 500 E

L 2000 N
L 1600 N
L 1200 N
L 800 N
L 400 N
L 0
400 S
L 800 S
L 1200 S
L 1600 S
L 2000 S
1600 S
L 2000 S
Az N30°

BL 0+00

200 0 200 400 600
(meters)

2.18442

LEGEND

1995 Selected Grid

137km of Survey Lines

Baseline Azimuth N30°T

PLAN 1

Starfire Minerals Inc.

Spanride Property
Base Map

English & Beemer Twp's. NTS: 41-A / SW
Porcupine Mining Division

Plotted: Apr 7/ 98 Geoserve Canada Inc.

42A03SW2001 2.18442 ENGLISH 220

Beemer Twp.

English Twp.

1203993

1203994

1203992

1203991

1207468

1207467

1207494

1207266

1207466

1207493

1206700

5M

4M

3M

2M

TL 1500W

TL 1800W

TL 500W

TL 500E

TL 1000E

TL 1500E

TL 2000E

TL 2500E

TL 3000E

L 2000 N

L 1600 N

L 1200 N

L 800 N

L 400 N

L 0

L 400 S

L 800 S

L 1200 S

L 1600 S

L 2000 S

BL 0+00

Az N30°E

River

Mountjoy

Telluride

Lake

Mountjoy

Lake

26230
24362
23179
21997
21124
20194
19476
18685
17935
17339
16654
16108
15455
14933
14305
13791
13179
12567
12054
11426
10904
10251
9704
9019
8424
7573
6882
6164
5234
4362
3179
1995
128

Apparent Resistivity
ohms/m

LEGEND
Apparent Resistivity Plan
Filtered Product
n=1 to n=4 Level
ohm's/ 50 meters
Pole Dipole Array
a= 50m
Time Domain Equipment
Androtex TDR-6 Receiver
Scintrex TSQ-3 Transmitter

Scale 1:10000
200 0 200 400 600
(meters)

PLAN 2

Starfire Minerals Inc.
Induced Polarization Survey
Spanride Property
English & Beemer Twp's. NTS: 41-A / SW
Porcupine Mining Division
Geoserve Canada Inc. Nov. 1997.

Beemer Twp.

English Twp.

1203993

1203994

1203992

1203991

1207468

1207494

1207493

1207266

1206700

5M

4M

3M

2M

L 2000 N

L 1600 N

L 1200 N

L 800 N

L 400 N

L 0

L 400 S

L 800 S

L 1200 S

L 1600 S

L 2000 S

TL 1500W

TL 1000W

TL 500W

TL 500E

TL 1000E

TL 1500E

TL 2000E

TL 2500E

TL 3000E

BL 0+00

Telluride Lake

Mountjoy Lake

Az N38°E

26230
24362
23179
21997
21124
20194
19476
18685
17935
17339
16654
16108
15455
14933
14305
13791
13179
12567
12054
11426
10904
10251
9704
9019
8424
7573
6882
6164
5234
4362
3179
1995
128

Apparent Resistivity
ohms/m

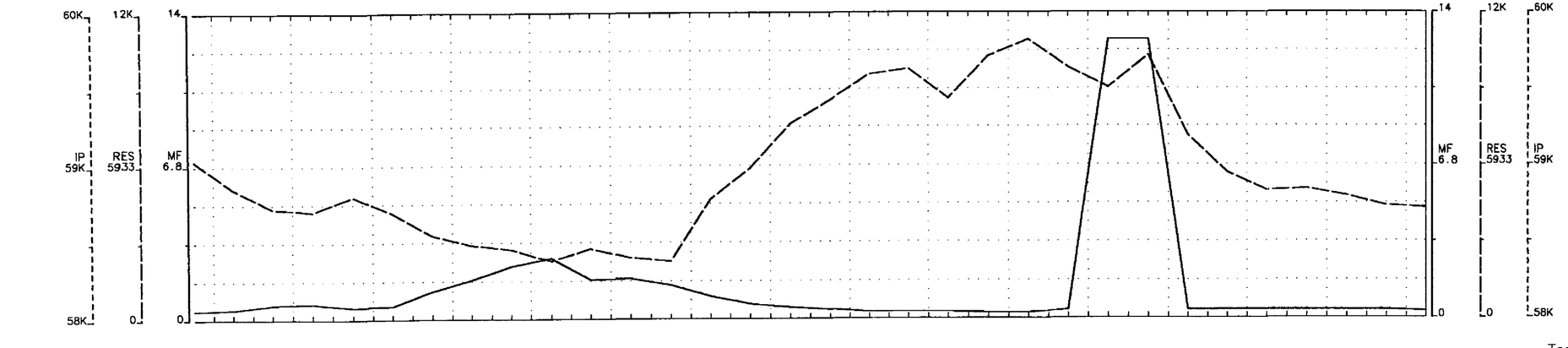
LEGEND
Apparent Resistivity Plan
Filtered Product
n=1 to n=4 Level
ohm's/ 50 meters
Pole Dipole Array
a= 50m
Time Domain Equipment
Androtex TDR-6 Receiver
Scintrex TSQ-3 Transmitter

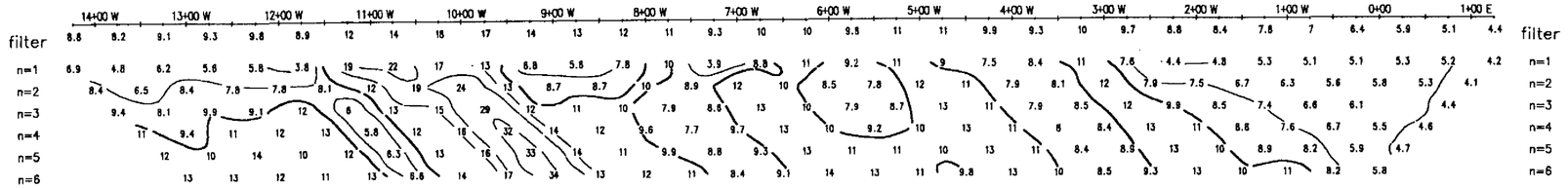
Scale 1:10000
200 0 200 400 600
(meters)

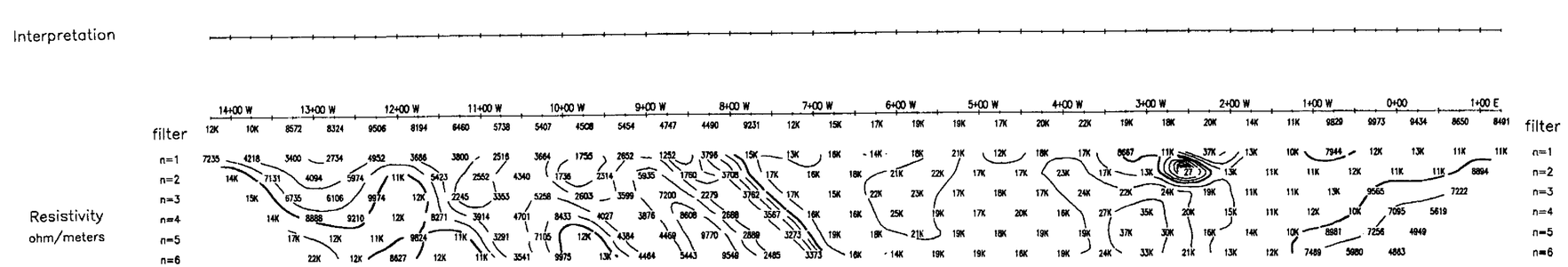
PLAN 3

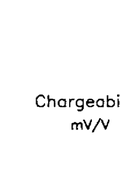
Starfire Minerals Inc.
Induced Polarization Survey
Spanride Property
English & Beemer Twp's. NTS: 41-A / SW
Porcupine Mining Division
Geoserve Canada inc. Nov. 1997.

42A03SW2001 2.18442 ENGLISH 240



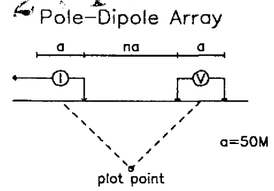






L- 2200S

2 18442



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	— — — —
Chargeability	; Logarithmic	- - - - - -
Metal Factor	;	———

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

- Low Effect
  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

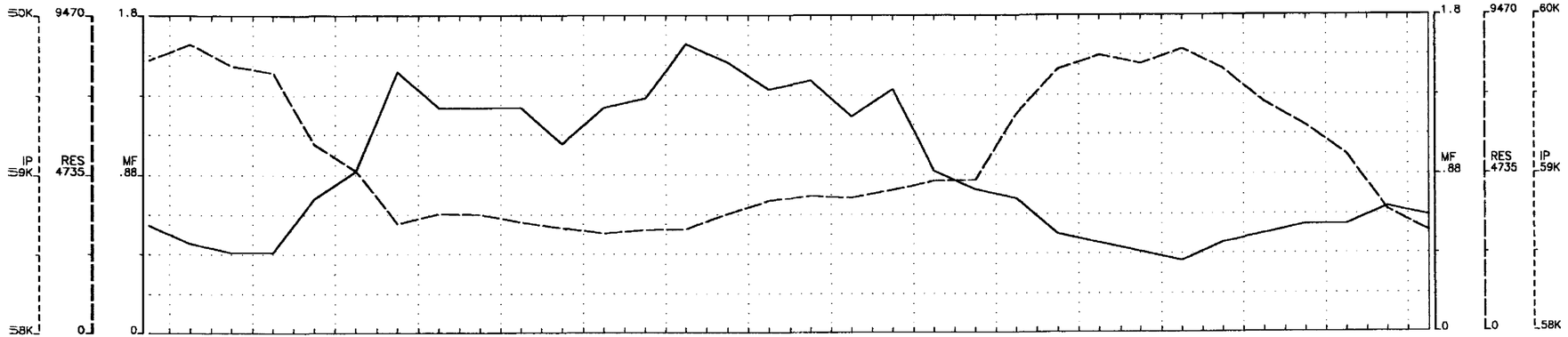
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

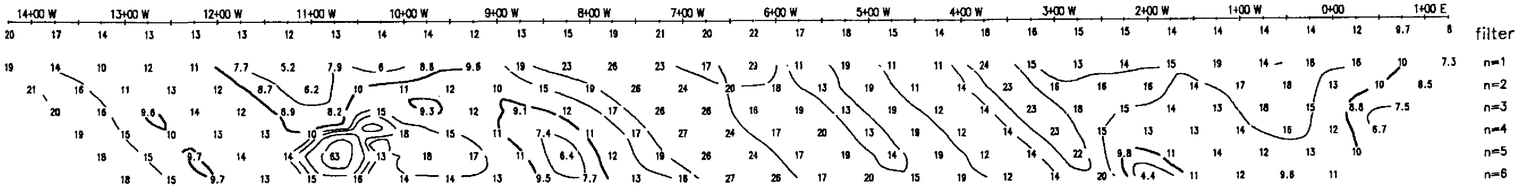
Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



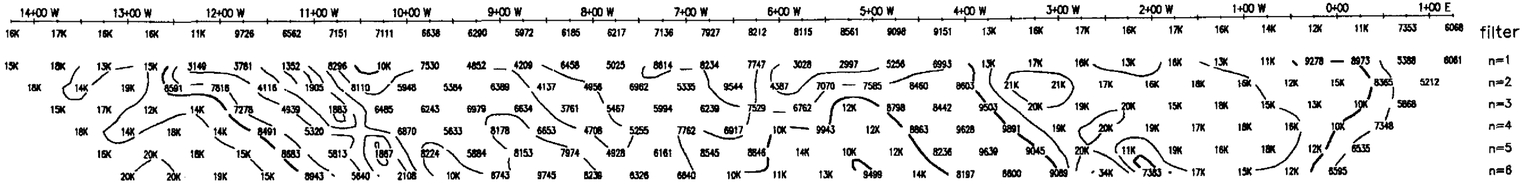
Topo

Interpretation



Chargeability mV/V

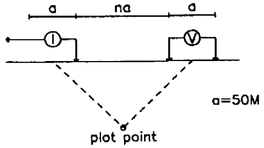
Interpretation



Resistivity ohm/meters

L- 2000S

Pole-Dipole Array



Filter

Cont. Intervals	Profiles
Resistivity ; Logarithmic	— — — —
Chargeability ; Logarithmic	- - - - - -
Metal Factor ;	————

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
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  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

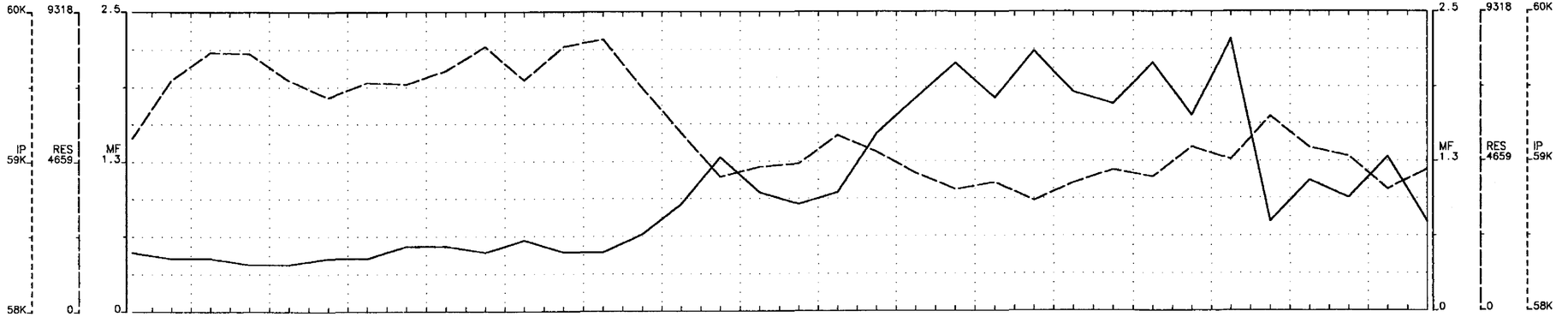
Scale 1:5000

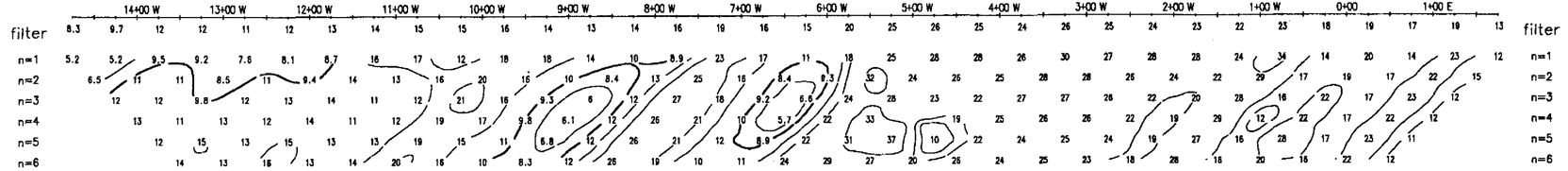
50 0 50 100 150 200 250 300
(meters)

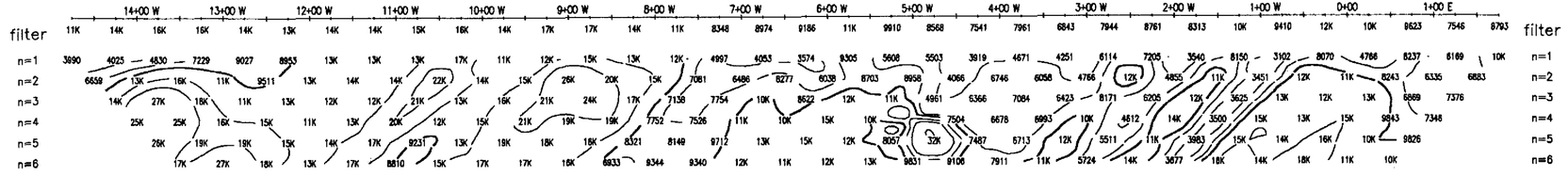
Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.





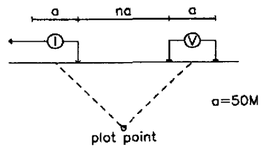


Topo
Interpretation
Chargeability
mV/V
Interpretation
Resistivity
ohm/meters

L- 1800S

2.18442

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	– – – – –
Chargeability	; Logarithmic	- - - - - -
Metal Factor	;	————

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
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- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

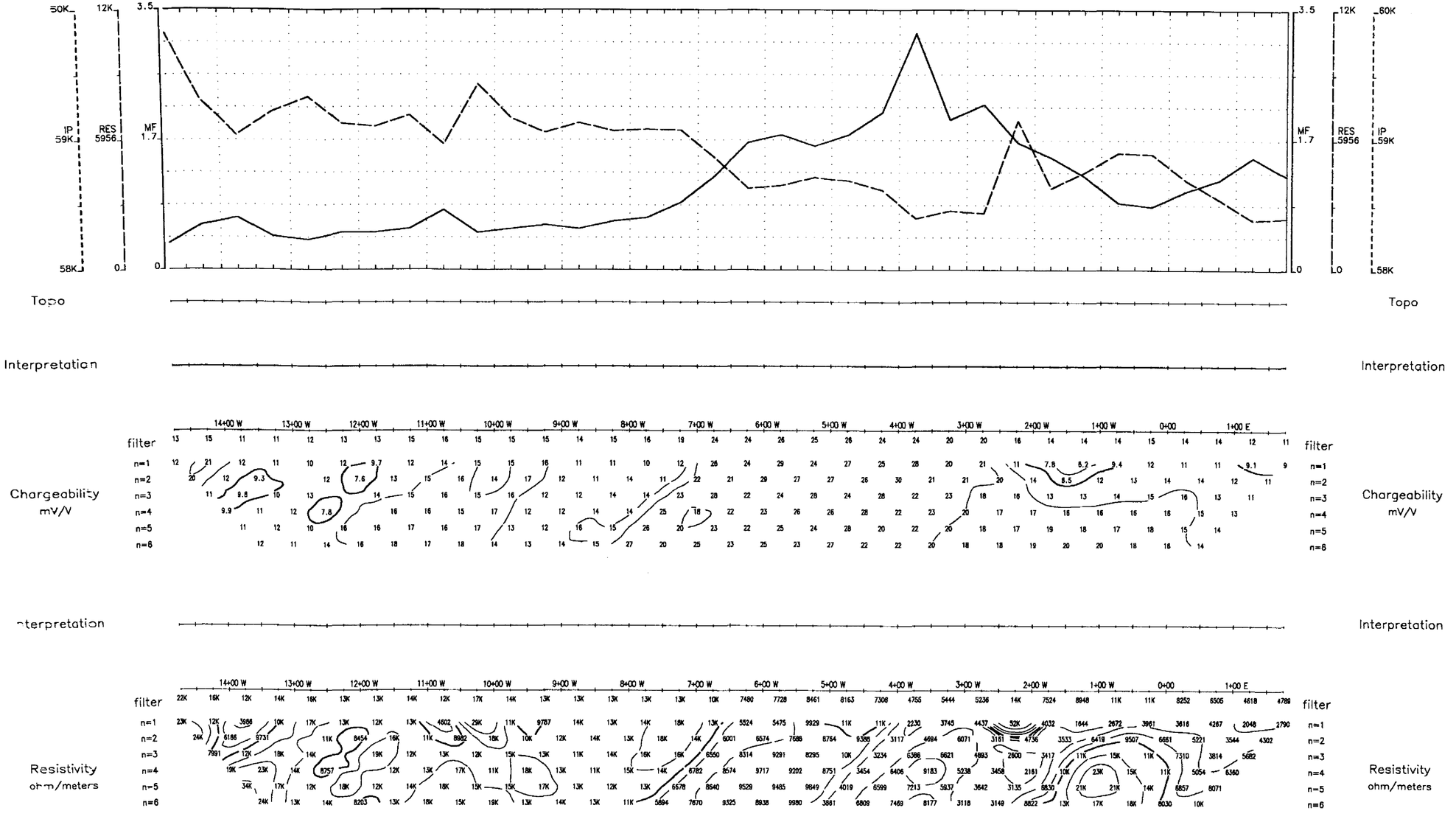
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

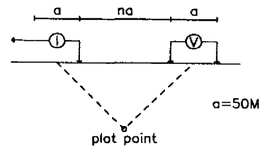
Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



L- 1600S

2.18

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity ; Logarithmic		
Chargeability ; Logarithmic		
Metal Factor ;		

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
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MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

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- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

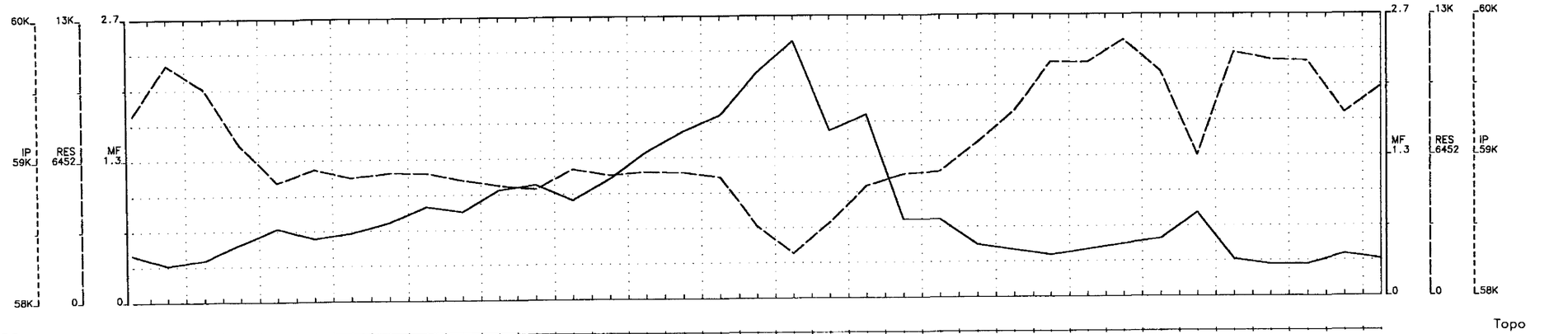
Scale 1:5000

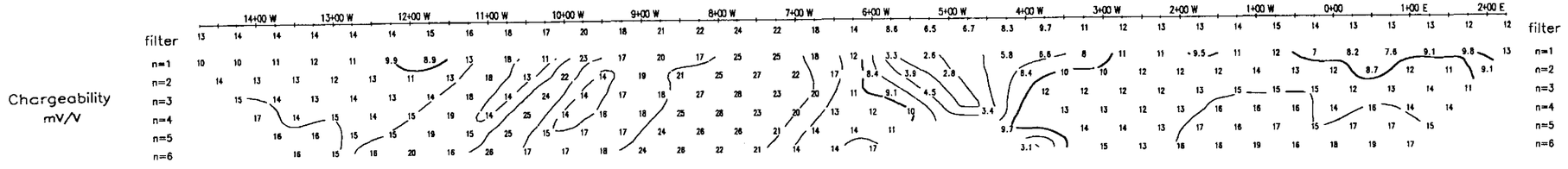
50 0 50 100 150 200 250 300
(meters)

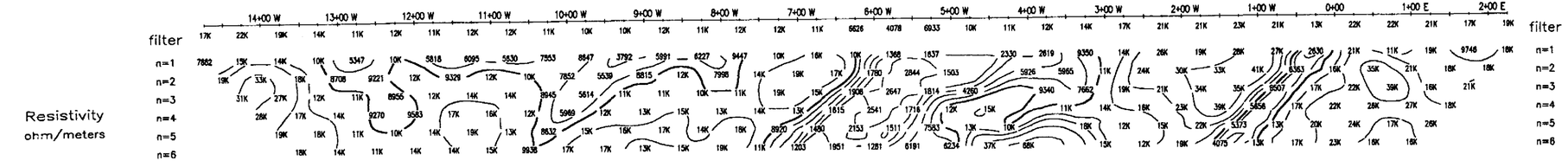
Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

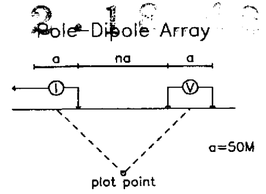
Porcupine Mining Division
Geoserve Canada Inc Sept. 97.







L- 1400S



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	– – – –
Chargeability	; Logarithmic	- - - - -
Metal Factor	;	----------

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

Low Effect
Poorly Chargeable mV/V, IP effect
Low Apparent Resistivity, rho

Moderately Low Effect

Moderately High Effect

High Effect
Good Chargeability mV/V, IP effect
High Apparent Resistivity, rho

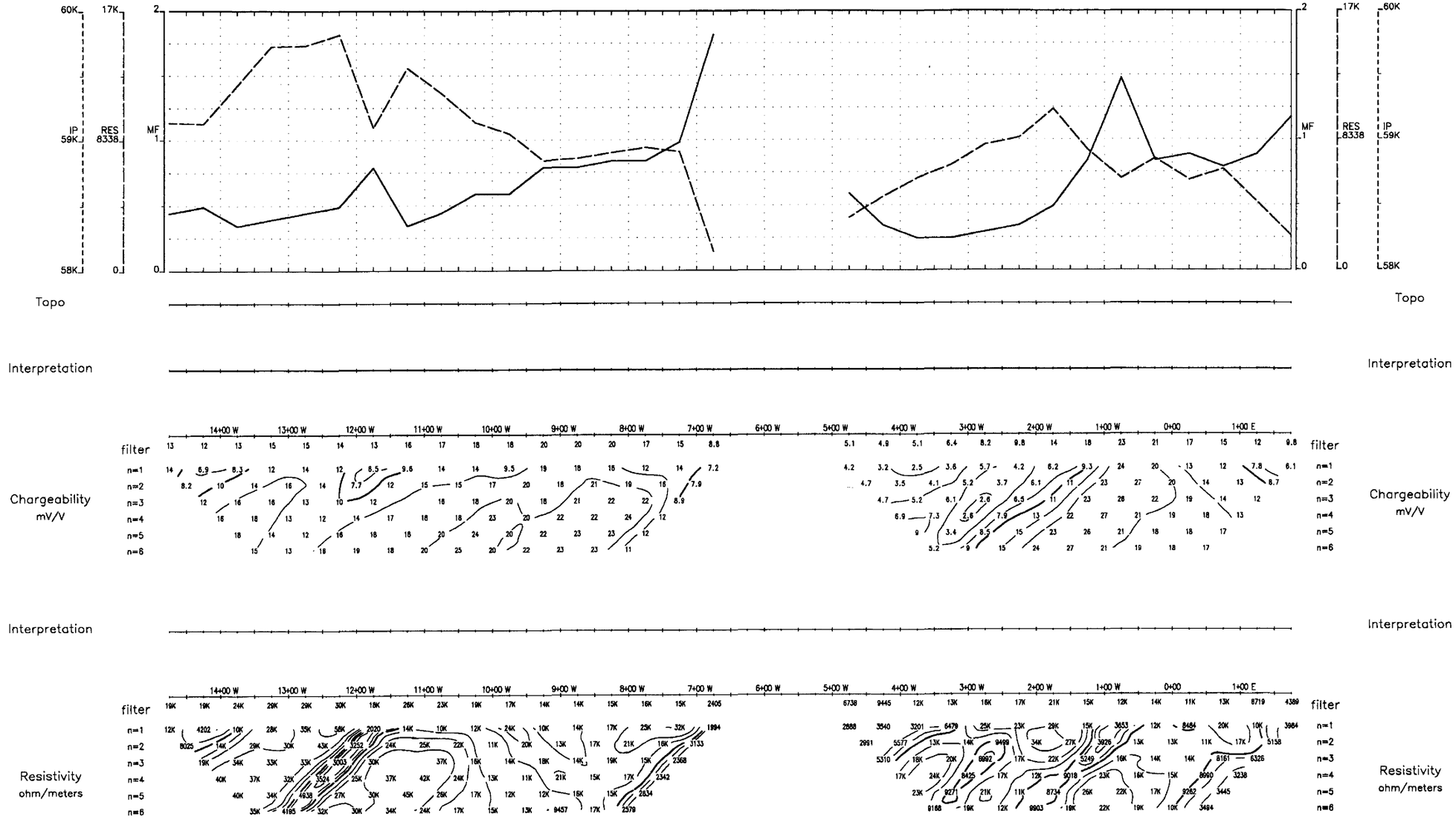
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

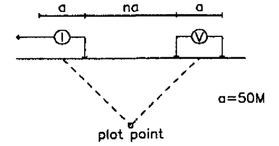
Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



L- 1200S

Pole-Dipole Array



Filter

*	n1
* *	n2
* * *	n3
* * * *	n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	— — — —
Chargeability	; Logarithmic	- - - - - -
Metal Factor	;	———

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
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- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

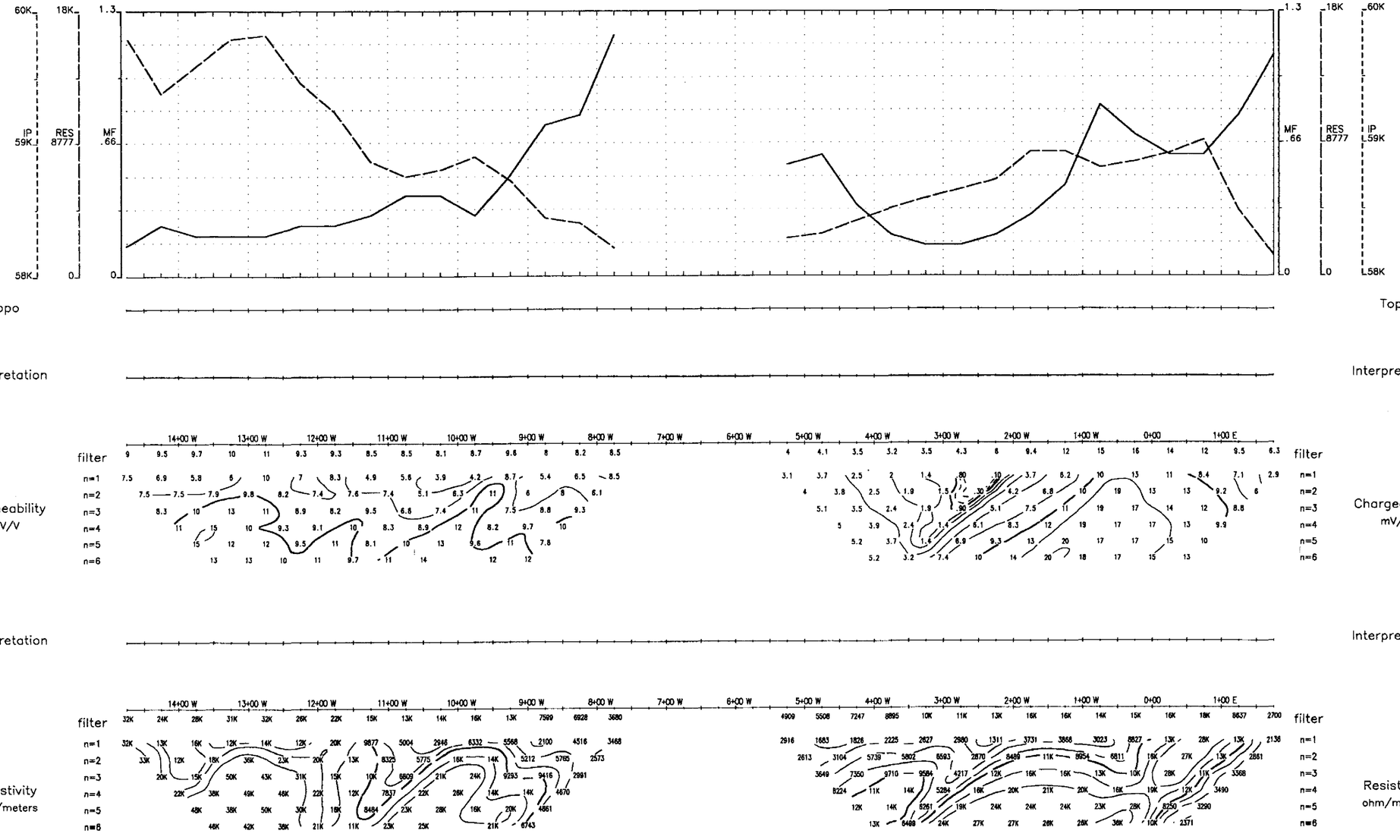
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

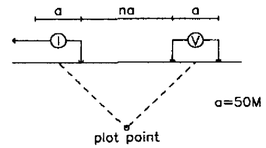
Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



L- 1000S

2.19

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity ; Logarithmic		– – – –
Chargeability ; Logarithmic		– – – –
Metal Factor ;		———

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

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  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

Scale 1:5000

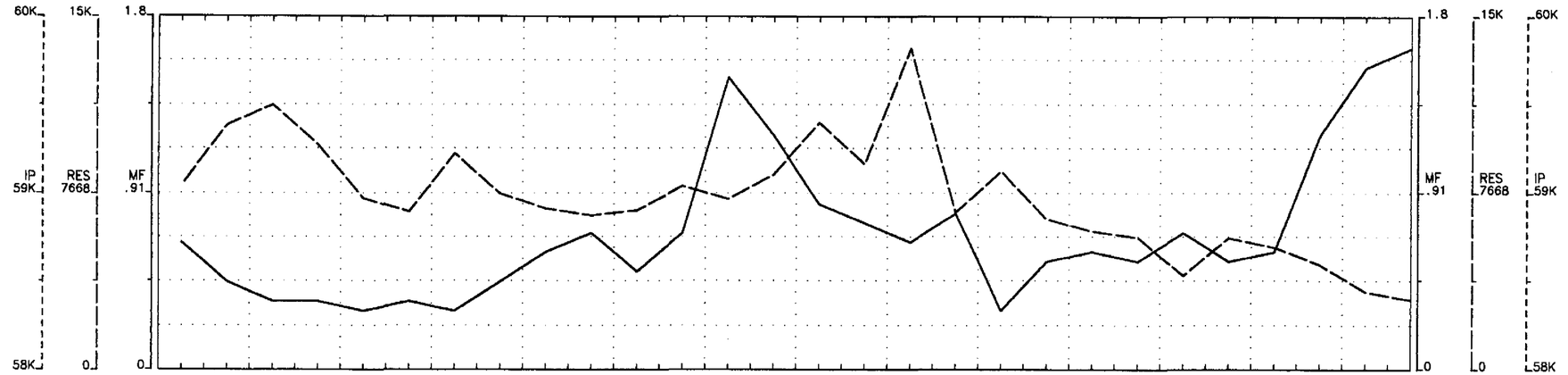
50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

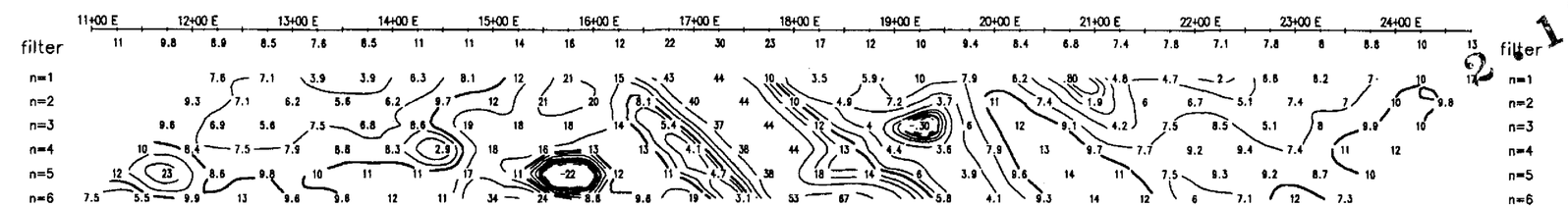
Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.

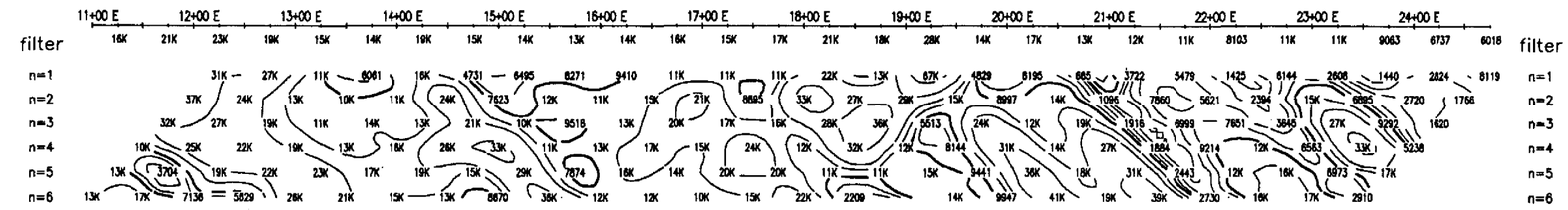
L- 200S

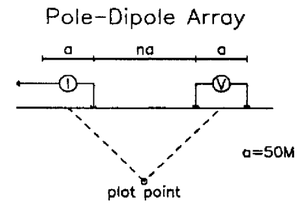


Interpretation



Interpretation





Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	– – – –
Chargeability	; Logarithmic	– – – –
Metal Factor	;	----------

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

- Low Effect
  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

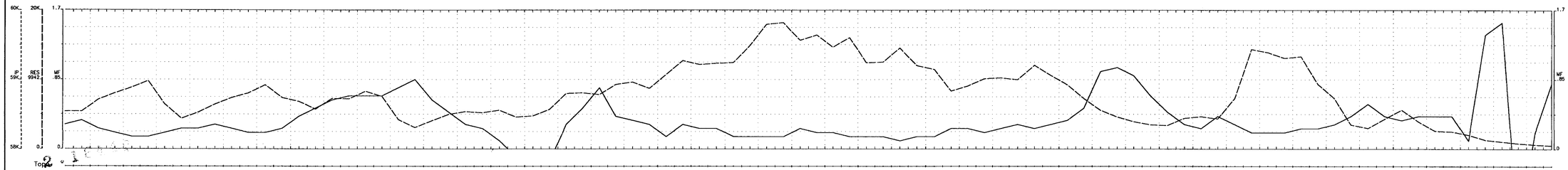
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

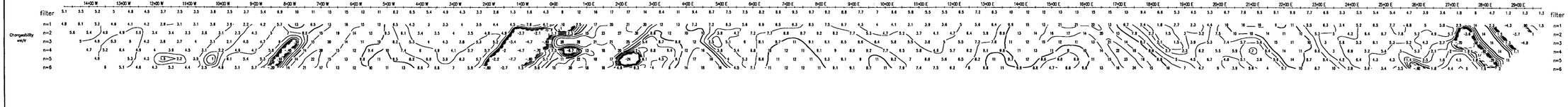
Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

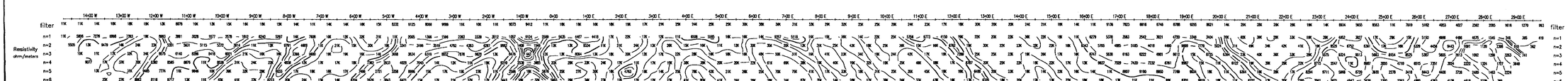
Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



Interpretation



Interpretation



Interpretation

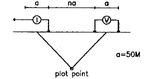
Chargeability mV/V

Interpretation

Resistivity ohm/meters

L- 200N

Pole-Dipole Array



Filter
n1
n2
n3
n4

Cont. Intervals	Profiles
Resistivity ; Logarithmic	
Chargeability ; Logarithmic	
Metal Factor ;	

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1780mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

Low Effect
Poorly Chargeable mV/V, IP effect
Low Apparent Resistivity, rho

Moderately Low Effect

Moderately High Effect

High Effect
Good Chargeability mV/V, IP effect
High Apparent Resistivity, rho

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.

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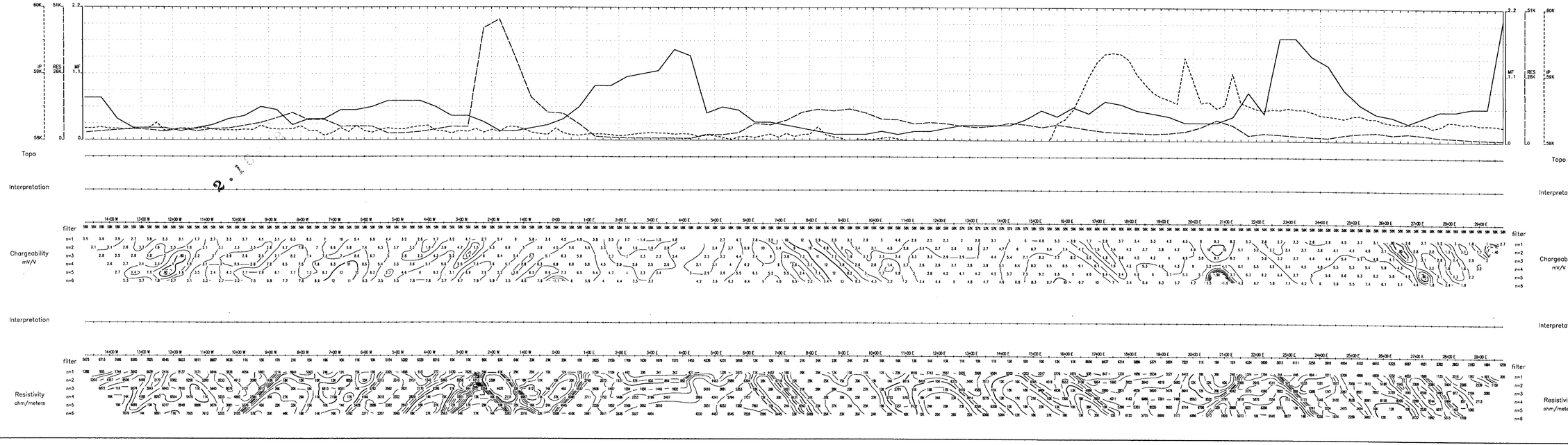
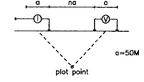


L- 400N

Pole-Dipole Array



Filter

n1
n2
n3
n4

Cont. Intervals	Profiles
Resistivity ; Logarithmic	
Chargeability ; Logarithmic	
Metal Factor ;	

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

- Low Effect
  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

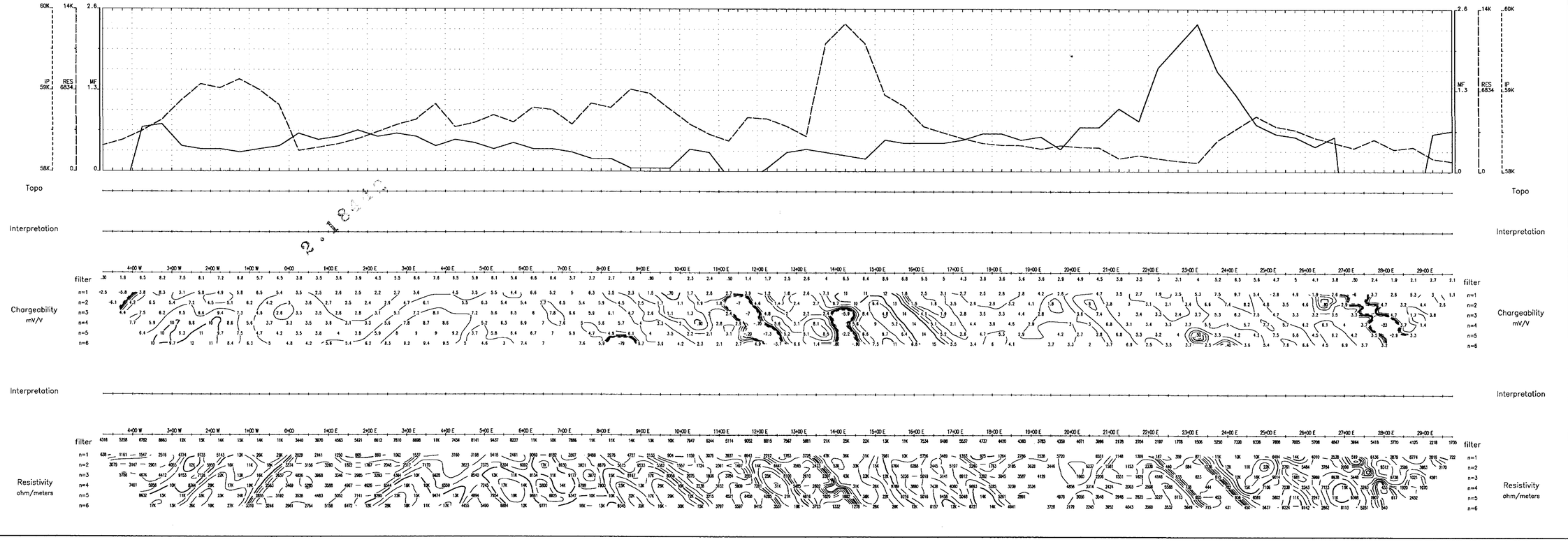
Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc

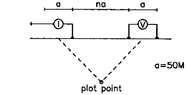
Sept. 97.

340



L- 600N

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	
Chargeability	; Logarithmic	
Metal Factor	;	

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

- Low Effect
  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

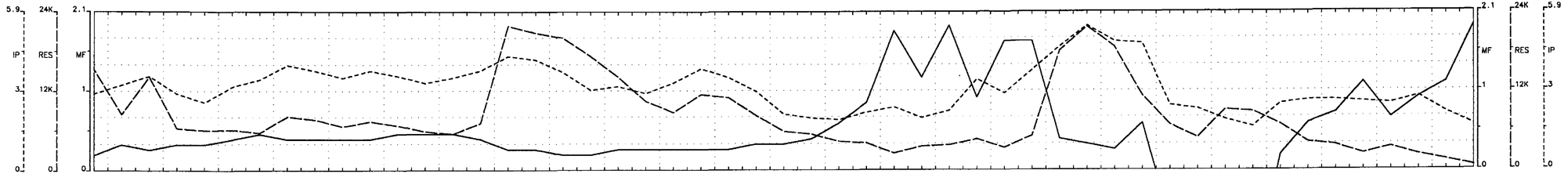
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

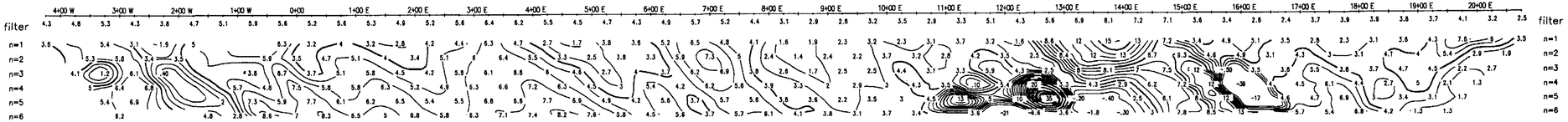
Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



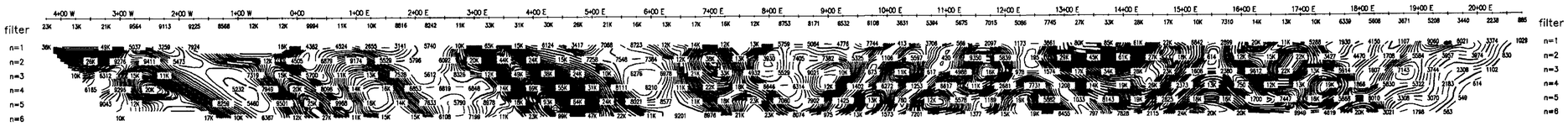
Topo

Interpretation



Chargeability
mV/V

Interpretation



Resistivity
ohm/meters

Topo

Interpretation

Chargeability
mV/V

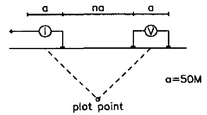
Interpretation

Resistivity
ohm/meters

L- 800N

2.1[illegible]2

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; 500 ohm/meter	— — — —
Chargeability	; 1.0 mV/V	- - - - -
Metal Factor	; 1 %	————

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

Low Effect
Poorly Chargeable mV/V, IP effect
Low Apparent Resistivity, rho

Moderately Low Effect

Moderately High Effect

High Effect
Good Chargeability mV/V, IP effect
High Apparent Resistivity, rho

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

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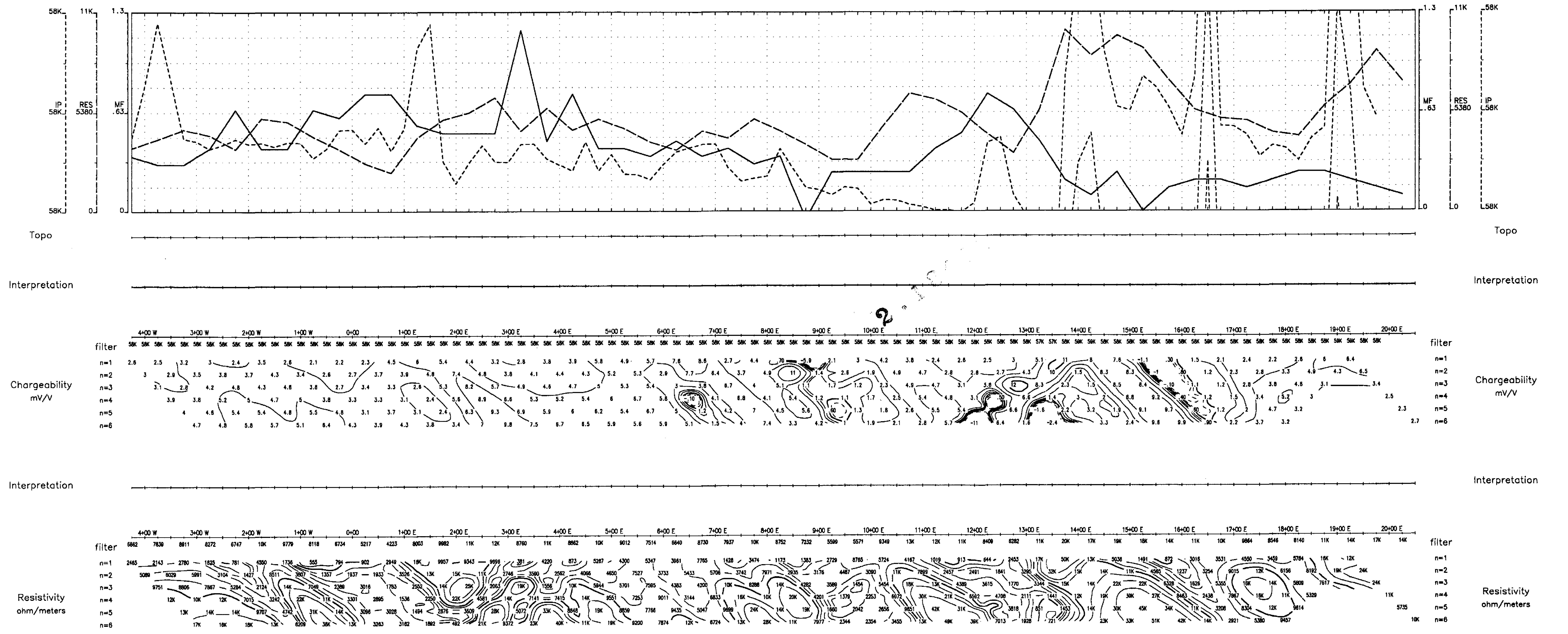
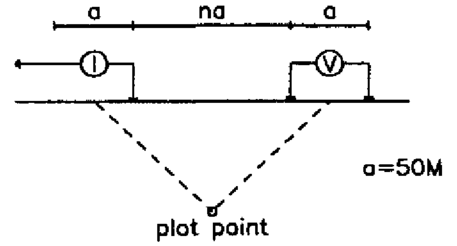
Geoserve Canada Inc Sept. 97.



L- 1000N

Pole-Dipole Array



Filter

*	n1
* *	n2
* * *	n3
* * * *	n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	-- -- -- --
Chargeability	; Logarithmic	- - - - - -
Metal Factor	;	————

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total Intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

- Low Effect
  Poorly Chargeable mV/V, IP effect
  Low Apparent Resistivity, rho
- Moderately Low Effect
- Moderately High Effect
- High Effect
  Good Chargeability mV/V, IP effect
  High Apparent Resistivity, rho

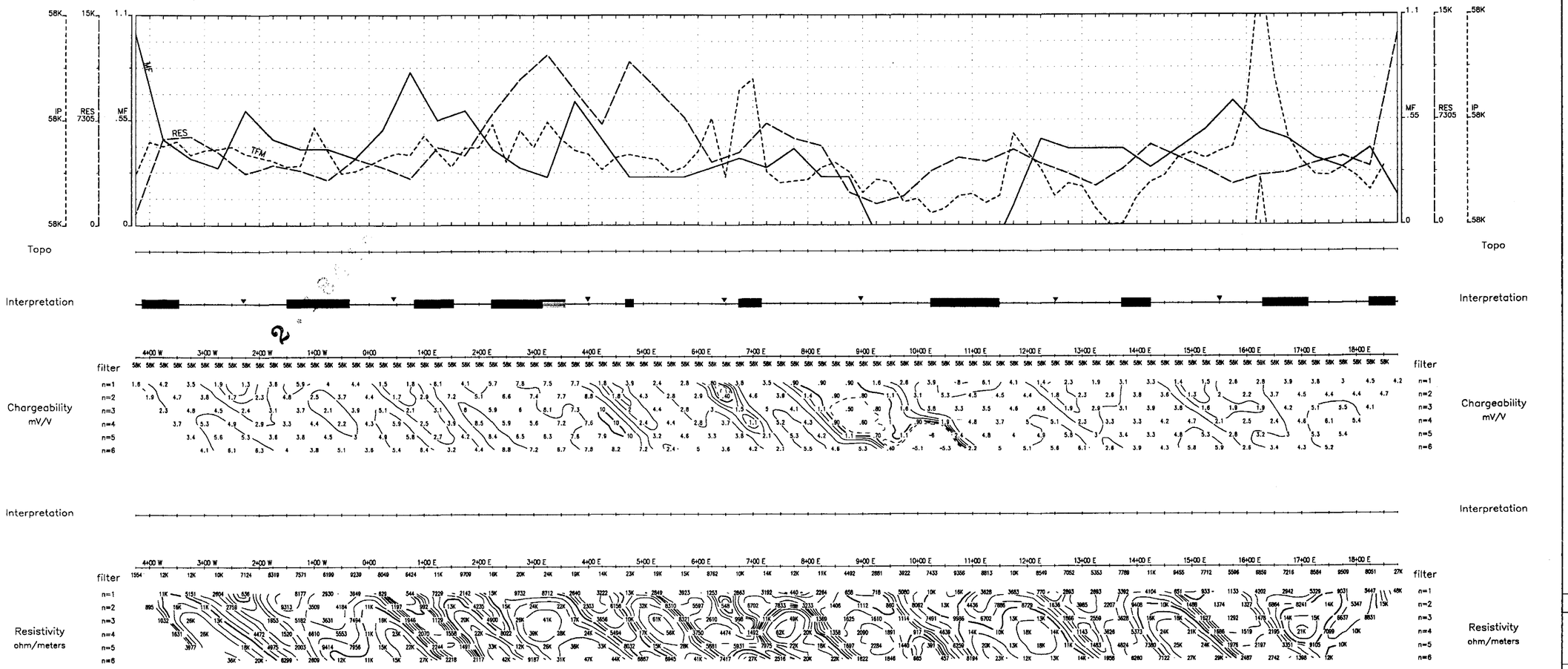
Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

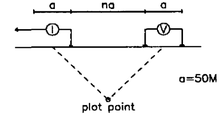
Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.



L- 1200N

Pole-Dipole Array



Filter

* n1
** n2
*** n3
**** n4

	Cont. Intervals	Profiles
Resistivity	; Logarithmic	— — — —
Chargeability	; Logarithmic	- - - - -
Metal Factor	;	----------

INSTRUMENTS

Androtex TDR6, Time Domain Receiver
1760mSec Total intergration Time, 80mS Delay.
MT= (80+80+80+80+160+160+160+320+320+320) mSec
Scintrex TSQ-3 Transmitter
8Second Total Duty Cycle, 2Sec On/Off Time.

INTERPRETATION

▼ Low Apparent Resistivity, rho

Moderately Low IP Effect (mV/V)

Moderately High Effect

High Effect
Good Chargeability mV/V, IP effect

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

Starfire Mineral Inc

Induced Polarization Survey
Spanride-1-95 Grid
English & Beemer, NTS: 42- A/ SW

Porcupine Mining Division
Geoserve Canada Inc Sept. 97.