

MANN

42A14NE2003 2.19593

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Report of Work

(July,99 IP & Mag Surveys)

For

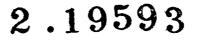
Falconbridge Ltd

(Timmins, Ontario)

On

Reaume project Claims; 1201909 & 1204690

Richard Daigle Geoserve Canada Inc.



RECEIVED JUL 1 3 1999 GEOSCIENCE ASSESSMENT OFFICE July 10, 1999



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1.0 Summary

Geoserve Canada Inc. of South Porcupine Ontario was commissioned by EastWest Resource Corporation of Vancouver, BC, to do work on two claims in Mann Township, Northeast Ontario. The two claims; **1201909 & 1204690** are registered to Falconbridge Ltd.

The claim are located in the northwest corner of Mann Township and are bisected by the Frederick House River. Access is easily gained by an old haulage road off of Highway 11, 22 km north of Iroquois Falls, ON.

EastWest Resource Corp who recently optioned the claims from Falconbridge contracted Geoserve to do line cutting and Induced Polarization surveys. The work was performed from June 20, 1999 to July 10, 1999.

The objective of this program is to evaluate the ground for potential base metal and precious metal occurrences. The results of the 1999 surveys encourages additional work.

2.0 Property



The two claims reported on are eight (8) units each (256 Hectares Total), lots 11 & 12, Concession VI, in the northwest corner of Mann Township, Porcupine Mining Division. Falconbridge is the present record holder.

The property is easily accessible by an old haulage road which crosses the Federick House River just south of the claims. The haulage road is accessed from Highway 11 near the community of Tunis, approximately 22 km north of Iroquois Falls, Ontario. This road is indicated along the Highway by a sign indicating the Natural Gas Pumping Station.

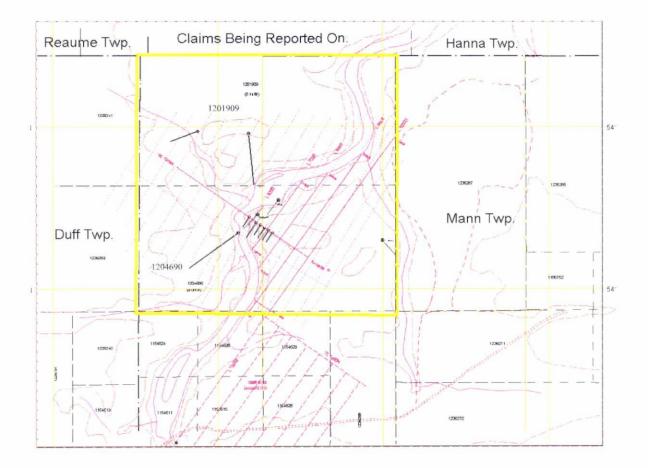


Figure 2; Property Map

3.0 1999 Work

3.1 Line Cutting

Geoserve line cutting crews cut near 3.5 km of lines from June 30 to July 4, 1999. An existing 1998 grid was used as starting point. Line 1000E which was started from the Frederick House River Bridge with a bearing of **35°** ended at 1000N. Crews continued this line NE up to 2250N. A baseline was turned 90° at 1400N.

3.2 Induced Polarization Survey

Procedure

Geoserve crews mobilized onto the job July 5, 99. A Pole Dipole Array was used with the infinity electrode located at the Frederick House River Bridge. Crews read n=1 to n=6 levels with a Dipole Spacing of 50m. The Scintrex IPR12 Receiver in conjunction with the Scintrex TSQ-3 (3000W) transmitter was used for the survey.

Results

The survey results are presented on three 1:5000 sections. Both apparent IP effects (mV/V) and Resistivities (ohms/ 50m) are posted and contoured.

Sections 1000E and 900E show two prominent chargeability anomalies with contrasting resistivity signatures. The mean resistivity signature along the sections are not typical of an intrusive unit. This may be attributed to good conductive bodies underlying the traverses. Section 800E is bound south and north by the Frederick House River. A chargeability anomaly appears under 1475N and the north limit. The resistivity contours appear to be influenced by topographic highs.

4.0 Conclusion

The 1999 Induced Polarization Survey successfully delineated chargeability anomalies that appear to not have been tested by past drilling.

A pilot survey with a max-min unit using a 200m coil spacing would be helpful. An inclonometer should be used over this type of terrain. There are valleys coarsely trending east-west towards the river.

The crews located drill core (AQ) near the river along baseline 1400N. This core should be evaluated by a geologist.

Respectfully Submitted For Approval.

Richard J Daigle

July 12/99

Date

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: $100\mu V$ to 30 Volts (automatic), accuracy: .25%, resolution: $10\mu V$.
•Self Potential (SP)	range: $\pm 2V$,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 Sig	nal 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 te	est 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 testing.	Six-monitoring input signal and course resistance

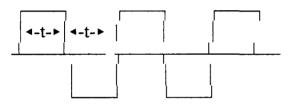
•Controls	Push button reset, toggle start-stop, rotary	Rs-in-test, rotary
(data scroll) display,	rotary (data scroll) Dipole, keypad 16 key 43	κ4.
 Memory Capacity 	2700 readings, 450 stations (n1 to n6).	
•Data Output compatible output for	serial I/O RS-232 (programmable baud rate), mat.	Geosoft
•Temperature 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 \pm .1% for up to 20% external load or \pm 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 Stabilit	y Automatic controlled to	o within ±.1% for up to	20%
external load variation of	or up to ±10% input	voltage variation	on.
·Stabilization Protection	(Over-range) High Volta	ge shuts off	automatically
if the control range exce	eds 20%.		
 Digital Display 	Light emitting diodes permit	t display up to 1999	with variable
decimal point; switch se	electable	to read input voltage, outp	put current, external
circuit re	esistance, dual current range,	switch	selectable.
·Current Reading Resol	ution 10mA on coarse range	: (1-10A) and 1mA on fine	range
(0-2A).			
•Time Domain Cycle	t:t:t:t; ON:OFF:ON:OF	F:automatic	
•Polarity Change	Each 2t, automatic.		
•Pulse Duration	Standard t=1,2,,4,8,16 and	32 seconds, optional	
	(7	2	

•Stability	Crystal controlled to better than .1% with	external clock
option better than 20p	opm over operating temperature range.	
•Efficiency	.78	
•Operating Temperatu	are Range; -30° C to $+50^{\circ}$ C	
•Overload Protection	Automatic shut-off at 3000VA.	
·Underload Protection	n 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 inter	rrupted squarewave used for survey.	



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

·Weight

Transmitter; 50kg, Generator ≈200kg.

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 <u>Newmount M Factor</u> 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, <u>Cole-Cole dispersion</u> (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.

6.0 CERTIFICATION

I Richard Daigle residing at 1115 Maclean Dr, U15 in the city of Timmins, ON, Certify;

- 1. I have received an Electronic Technologist Certificate in 1979 from Radio College of Canada, Toronto, ON.
- 2. I have been computer literate and utilized geophysical equipment for fifteen years.
- 3. Experienced Max-Min (HLEM) interpretations along with field operations under the supervision of John Betz, 1979-81.
- 4. Geophysicist Assistant for Kidd Creek Mines under the supervision of Mr. Doug Londry, 1981-85.
- 5. Fulfilled geophysical contracts in NE Ontario, 1985-87.

6. Fulfilled geophysical contracts (IP, HLEM, MAG, SP) along with property assessments in Eastern Canada, 1987-92.

- 7. I have been employed by M.C. Exploration Services Inc as Geophysical Evaluator for the past four years.
- 8. I have no direct interest in the property reported upon or the company worked for.

July 12/99 DATE:

Timmins, ON

J. Daigle

(10)



Declaration of Assessment Work Performed on Mining Land

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



900

Transaction Number (office use) W9960.0031 Assessment Files Research Imaging

tions 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

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

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

Name Falconbridge 1td.		Client Number 130679
Address F.O. Box 1140		Telephone Number 705 - 2 6 7 - 1188
Timmins, Ontario	P4N 749	Fax Number 705-267-8874
Name		Client Number
Address -		Telephone Number
	· · · · ·	Fax Number

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

Geotechnical: prospecting, su assays and work under section	urveys, Physical: drilling strip n 18 (regs) Physical: drilling strip	
Work Type		Office Use
Line Cutting	ization Survey	Commodity
THEATER INTO		Total \$ Value of \$789 / Work Claimed 789 /
Dates Work From 30 06 Performed Day Month Ye	99 To 10 07 99 ear Day Month Year	NTS Reference
Global Positioning System Data (if available)	Township/Area Mann	Mining Division Uncerprise
	M or G-Plan Number	Resident Geologist

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 Geoserue	Canada Inc.	Telephone Number 705 - 235 - 866 /
Address Q.O. Box	1525, South Porc.	PON 1140 Fax Number 705 . 235 - 8281
Name		Telephone Number
Address		Fax Number
Name		Telephone Number
Address	••••••••••••••••••••••••••••••••••••••	Fax Number

Certification by Recorded Holder or Agent 4.

RICHARD DAIGLE

, do hereby certify that I have personal knowledge of the facts set forth in (Print Name) this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its

d report is true.	
	Date Aug/2/94
Vin 705-235-8661	Fax Number 705-235-8781
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RECEIVED	REGERVEN
JUL 1 3 1339 JUL	IUL 12 1999 C
GEOSCIENCE ASSESSMENT	2 STA N- PORCUPIKE MUNR DIVISION
	Telephone Number 705-235-866 RECEIVED JUL 13 1399

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.

work v minin colum	g Claim Number. Or if was done on other eligible g land, show in this in the location number ated 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						4
2	120 1909	ଞ	\$1420.43	# 3200. °V		11 ª 20.43
3	120 46 90	8	6470.82	# 3200.	\$1800.~	\$ 1470.8
4						
5						
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9						
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11						
12						
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14						
15			4			
	Column Totals		7891.25	#6400.00	\$1800.0	\$ 1491 25

I RICHARD	DALGLE	_, 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.

\wedge	
Signature of Recorded Holder or Agent Authorized in Writing	Date
A Martin	Null 12/77

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

Some of the credits claimed in this declaration may be cut back. Please check (\checkmark) 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.

Received Stamp		Deemed Approved Date	Date Notification Sent
		Date Approved	Total Value of Credit Approved
OZ41 (03/07) DECENT		Approved for Recording by Mining Recorder (Signature)	
	IUL 12 1999		
	IUL 12 1999 C	REC	EIVED
	PORCUPINE MINING DIVISION		
	L	JUL	1 3 1893
		-	CE ASSESSMENT



Northern Development and Mines

PORCUPINE MINING DIVISION

Statement of Costs for Assessment Credit

Transaction Number (office use) WC1960.00311

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 685.

Work Typ e	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
Line Cutting	3.5 Km	\$350,~	\$ 1225
Line Cutting IP Survey.	3.5 Km 13 A duys	\$350,~ \$ 1350.~	\$ 5400
0			
		· ·	
Associated Costs (e.g. su	upplies, mobilization and demobilization).		\$ 7.50.
Report	` 		\$ 750.
<u></u>			
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Tr	ansportation Costs		
······			
	· · · · · · · · · · · · · · · · · · ·		
Foo	d and Lodging Costs		
		Sub Tota	7375.
,		GST	516.
	Total	Value of Assessment Work	789/.2
2. If work is filed after two years	nts: If performance is claimed at 100% of the above T s and up to five years after performance, it can o If this situation applies to your claims, use the cal	nly be claimed at 50% of the T	rk. otai
TOTAL VALUE OF ASSESSME	NT WORK x 0.50	= Total \$ value of v	vorked claimed.
request for verification and/o Minister may reject all or par Certification verifying costs: I, <u>Trichard</u> Daige	ot eligible for credit. quired to verify expenditures claimed in this state or correction/clarification. If verification and/or cor t of the assessment work submitted. , do hereby certify, that the amounts s ere incurred while conducting assessment work or	rection/clarification is not mad	e, the reasonably
Declaration of Work form as	AGENT (recorded holder, agent, or state company position with signing author	I am authorized to make	this certification.
0212 (03/97)	2 1999	RECEIVED	y12/99

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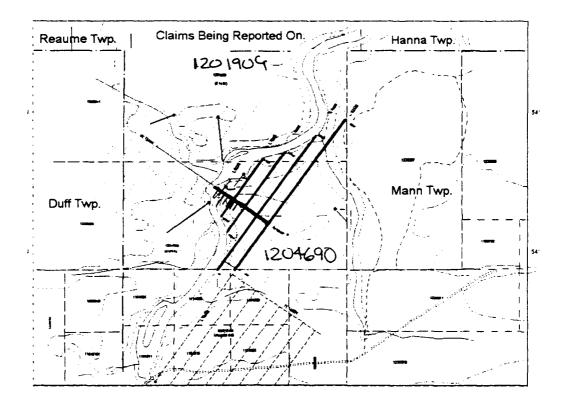
GEOSCIENCE ASSESSMENT

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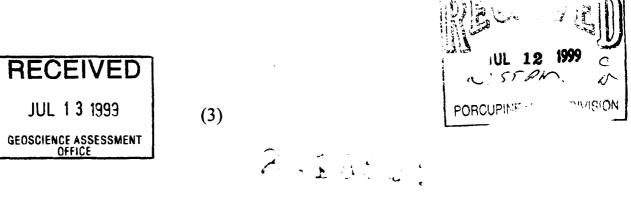
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Ministry of Northern Development and Mines	Ministère du Développement du Nord et des Mines	🐨 Ontario	
		Geoscience Assessment Office	
July 23, 1999		933 Ramsey Lake Road 6th Floor	
		Sudbury, Ontario	
FALCONBRIDGE LIMITED		P3E 6B5	
P.O. Box 1140			
Timmins, ONTARIO		Telephone: (888) 415-9846	
P4N 7H9		Fax: (877) 670-1555	
		Visit our website at:	
		www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm	n
Dear Sir or Madam:		Submission Number: 2.19593	
		Status	
Subject: Transaction Number(s): W9960.00311	1 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 steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

la the

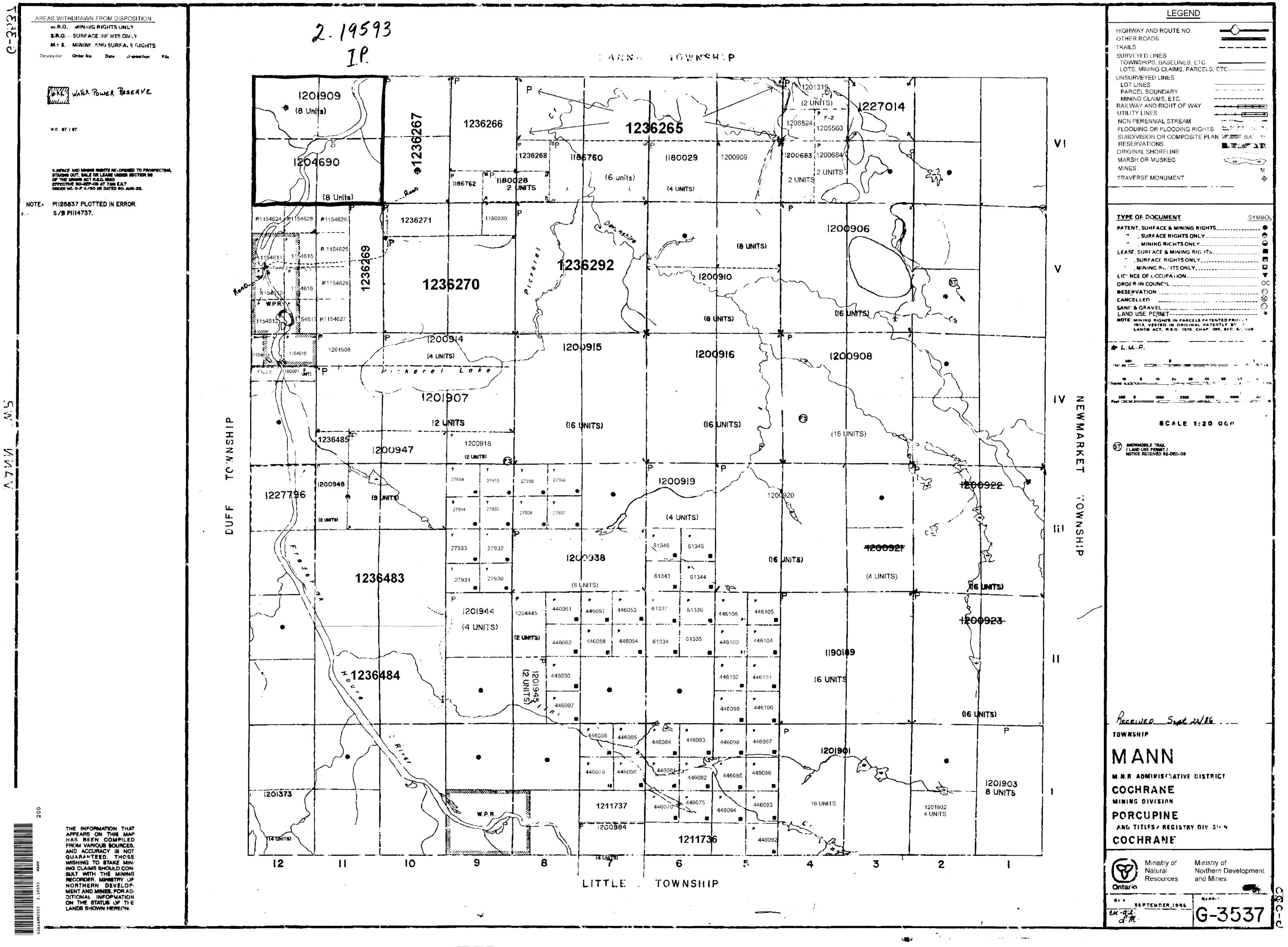
ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

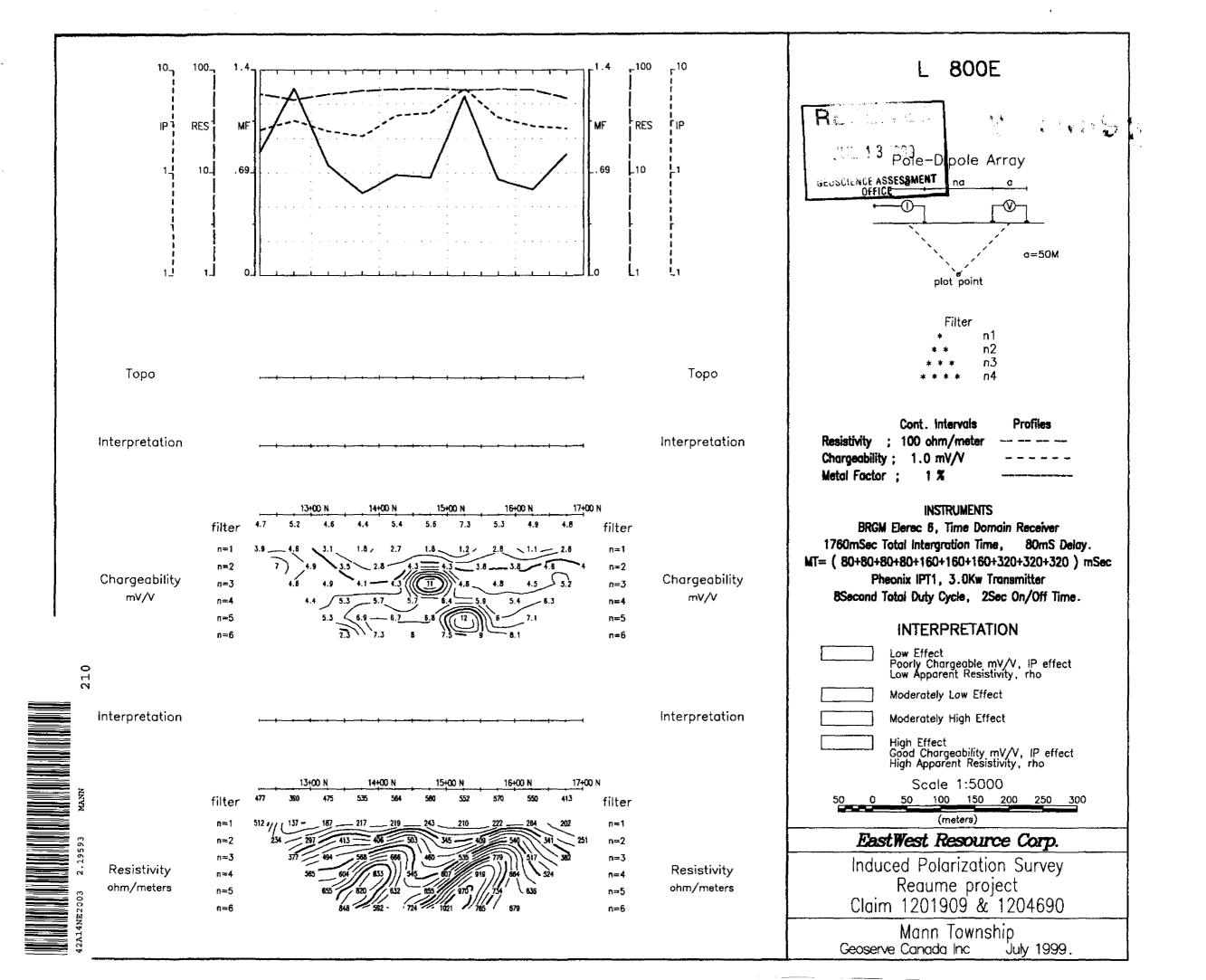
Work Report Assessment Results

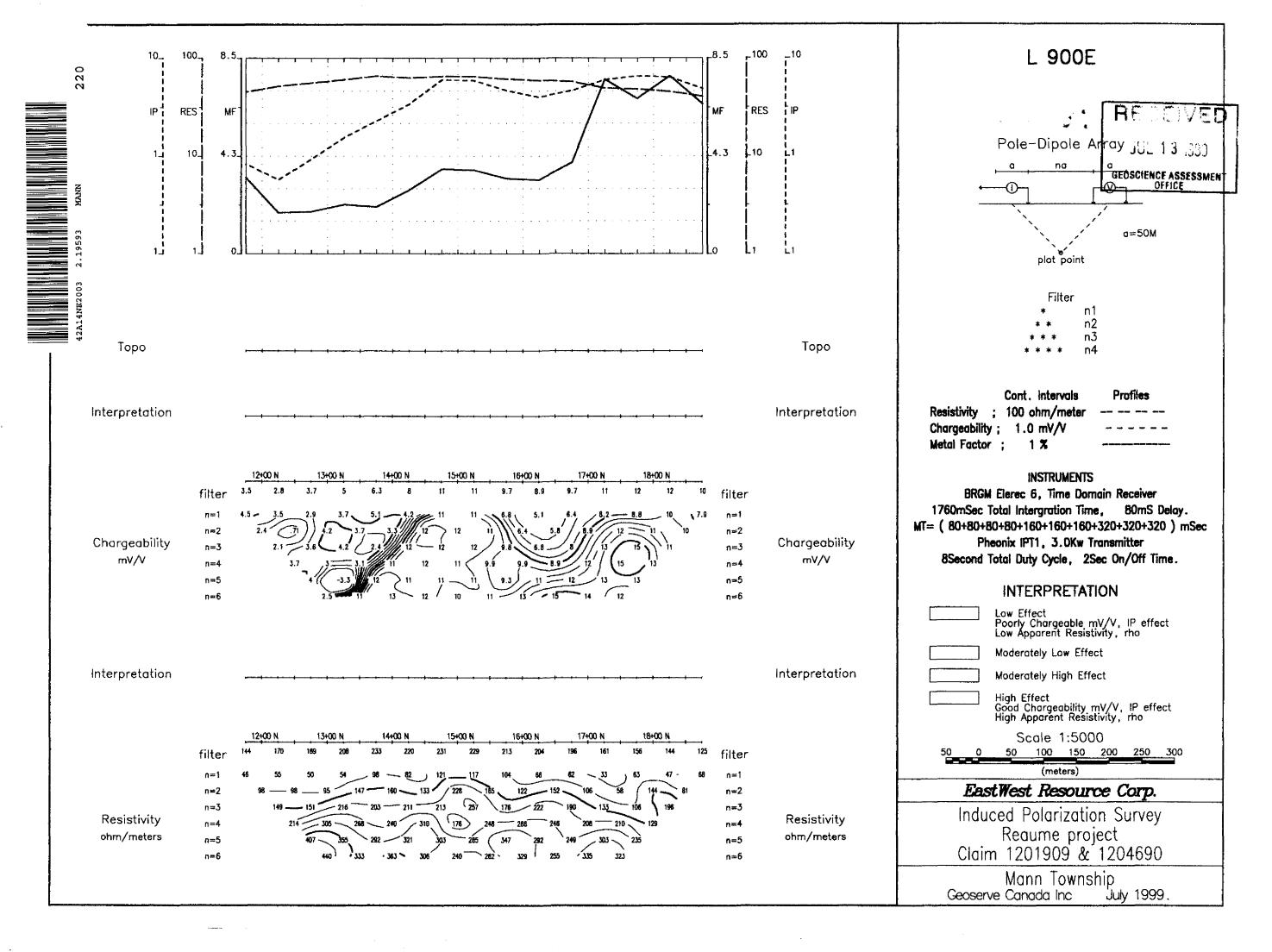
Date Correspondence Sent: July 23, 1999		Assessor: Steve Bene	oteau		
		1000	A325301.0000 Den		
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date	
W9960.00311	1201909	MANN	Deemed Approval	July 22, 1999	
Section: 14 Geophysical IF)				
Correspondence	to:		Recorded Holder(s)	and/or Agent(s):	
Resident Geologist		Richard Daigle			
South Porcupine, ON		SOUTH PORCUPINE, ONTARIO, CANADA			
Assessment Files Library		FALCONBRIDGE LIMITED			
Sudbury, ON		Timmins, ONTARIO			

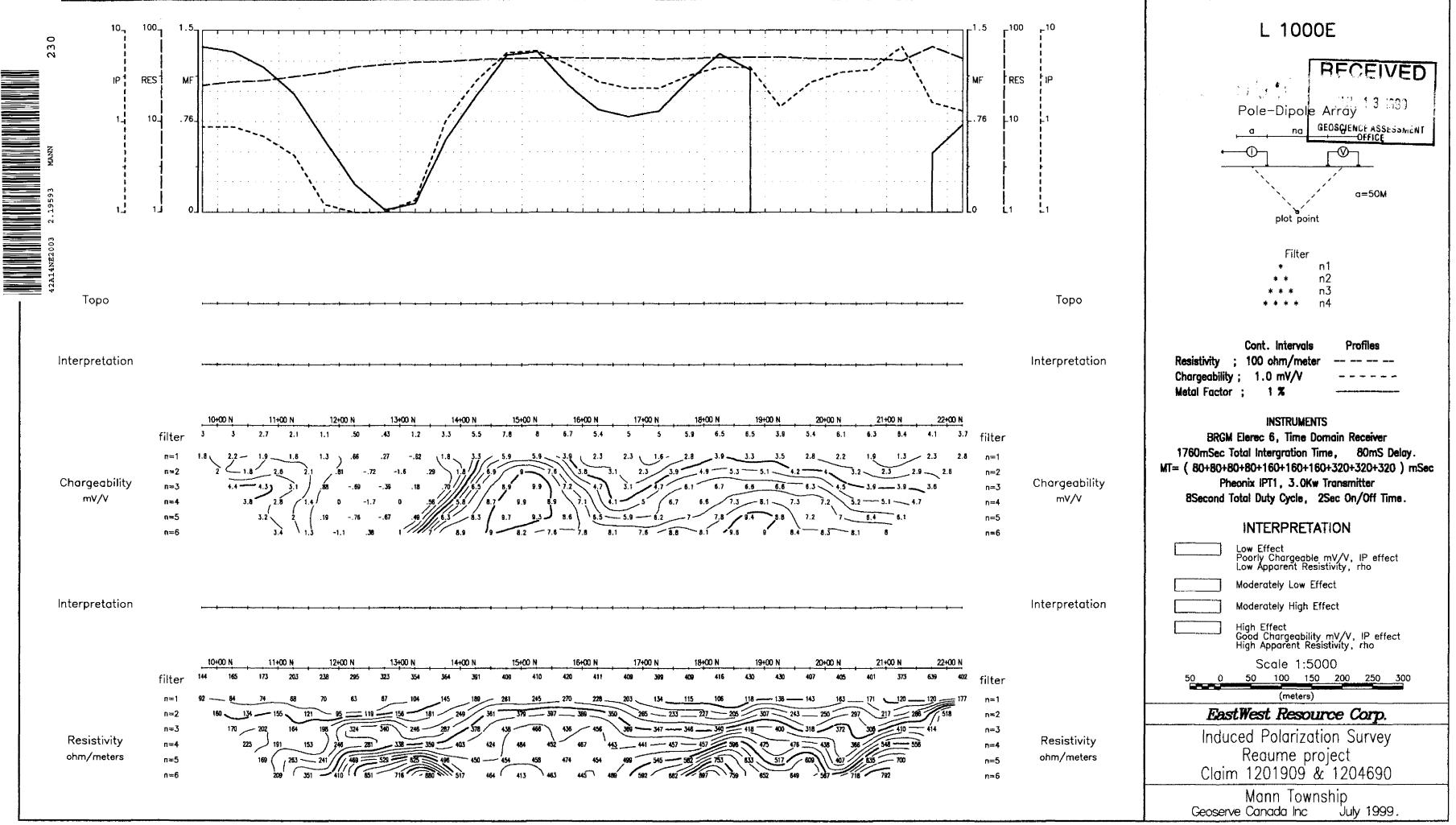
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