



42A06NW2023 2.20856 BRISTOL

010

INDUCED POLARIZATION REPORT  
FOR  
CAMECO GOLD CORP.  
ON THE  
BRISTOL PROJECT  
BRISTOL TOWNSHIP  
PORCUPINE MINING DIVISION  
NORTHEASTERN, ONTARIO

2. 20856

Prepared by: J.C. Grant, CET, FGAC  
February, 2000

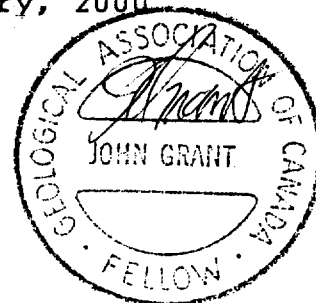




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INTRODUCTION:

The services of Exsics Exploration Limited were retained by Mr. Paul Coad on behalf of the Company, Cameco Gold Corp. to complete an induced polarization, (IP), survey on a portion of their claim holdings in Bristol Township of the Porcupine Mining Division of Northeastern Ontario.

The purpose of this ground program was to locate and outline favourable geological structures that would be considered potential areas for gold mineralization. The IP survey was done as a follow-up to the total field magnetic survey that was completed the property at the time of this report.

The IP survey was completed between the 10th of January and the 26th of March, 2000. A total of 18.5 kilometres of surveys were completed over the cut grid. The extended time was required to complete the IP surveys as the original work was undertaken by another independent contractor and Exsics stepped in during the first of March to take over and complete the IP coverage. An early thaw also delayed the completion of the IP program.

PROPERTY LOCATION AND ACCESS:

The property is located in the northeast section of Bristol Township which is located in the Porcupine Mining Division, District of Cochrane in Northeastern, Ontario, Figure 1. More specifically it is located approximately 14 kilometres west southwest of the City of Timmins and Waterhen Lake covers the extreme northeast corner of the claim group. The east boundary of the property is represented by the Township line between Bristol and Ogden and the north boundary is represented by the Township line between Bristol and Godfrey. Refer to figure 2 and 3 for the positioning of the claims. Highway 101 is situated just to the south of the southeast corner of the grid.

The access to the grid during the survey period was ideal. Highway 101 is situated just to the south of the property. A good gravel road, locally called the main Mallette haulage road, travels across the claim block in a north-northwest direction and commences just to the south of the block at Highway 101. Refer to figure 3 for the positioning of this gravel road.

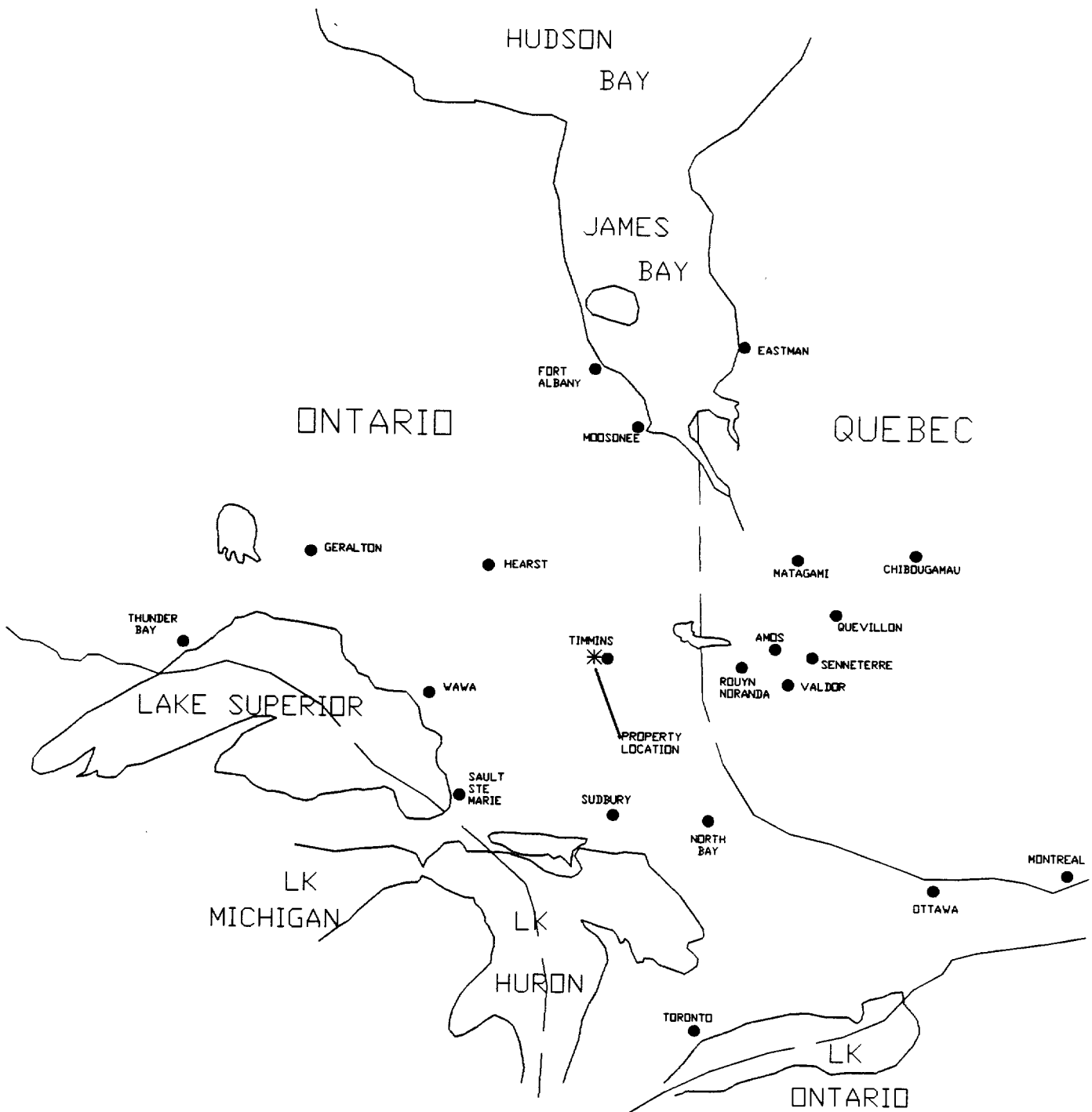
Travelling time from Timmins to the grid is about 30 minutes.

CLAIM BLOCK:

The claim numbers that were covered by this <sup>I.P.</sup> magnetic program are as follows.

P-1226640, P-1226641, P-1226642, P-1226643, P-985626,  
P-985625, P-985624, P-985623, P-985622, P-985615,  
P-985616, P-985617, P-985618, P-985619, P-985612, P-985611.

Refer to figure 3 copied from MNDM Plan Map, G-3998, Bristol Township for the positioning of the claims.



**EXSICS EXPLORATION LTD.**  
 P.O. Box 1880, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151, FAX.264-5790

CLIENT: CAMECO GOLD INC.

PROPERTY: BRISTOL PROPERTY

TITLE: BRISTOL TOWNSHIP

**LOCATION MAP**

Fig. 1

Date: FEB.2000

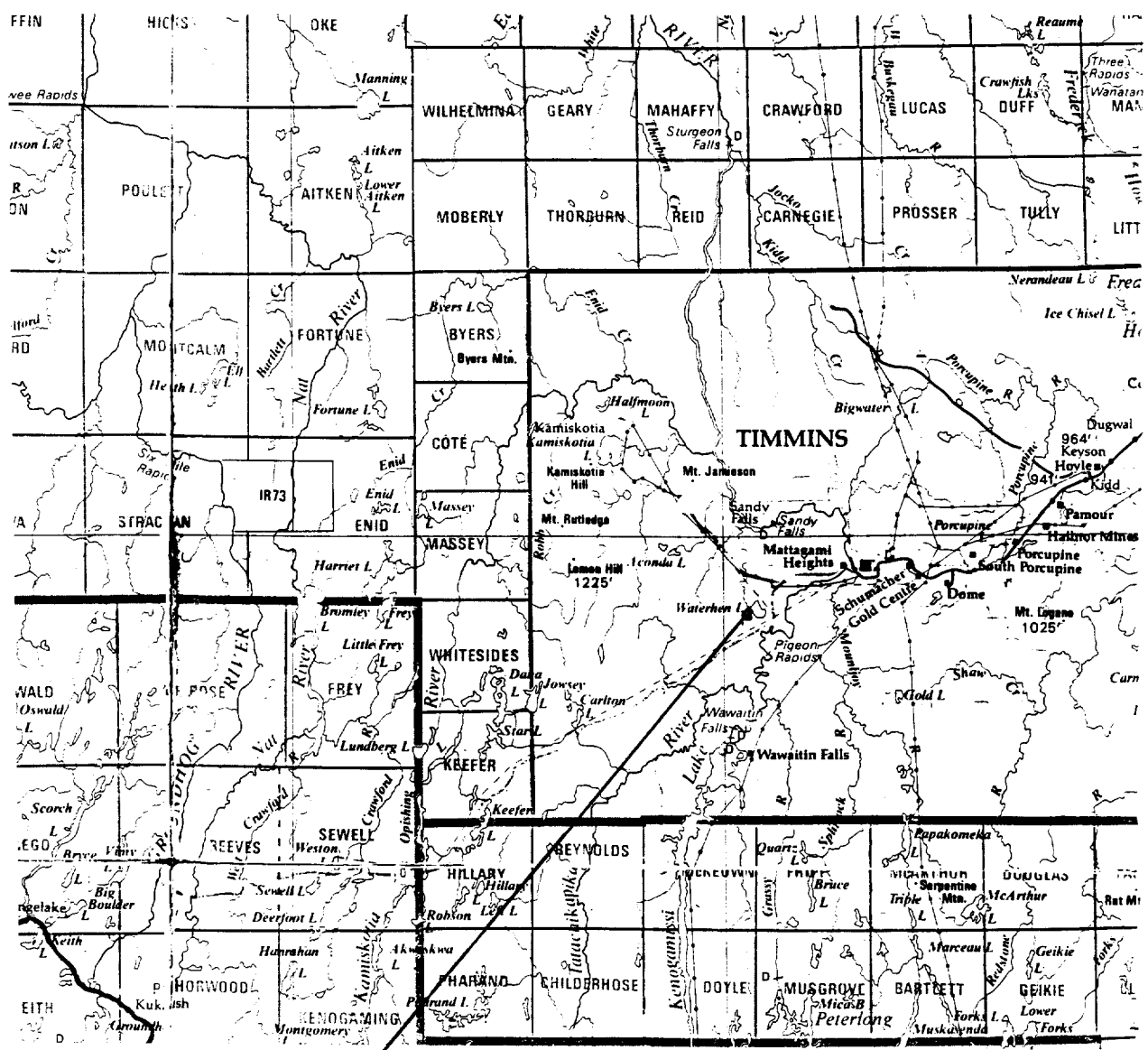
Scale: 1" = 125miles NTS:

Drawn: P.Gauthier

Interp: J.C.Grant Job No.: E-368





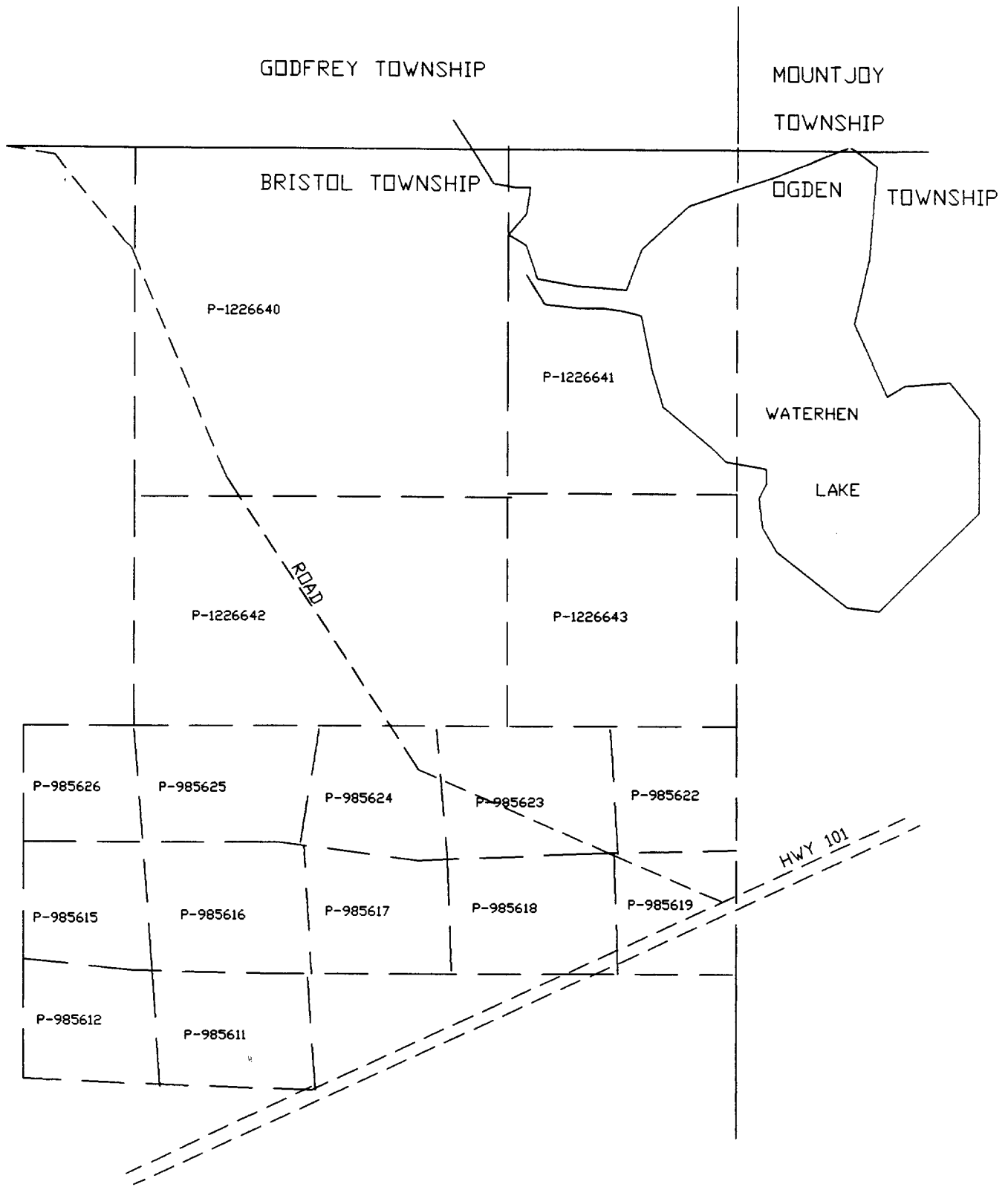


**EXSICS EXPLORATION LTD.**  
 P.O. Box 1880, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151, 267-2424

CLIENT: **CAMECO GOLD INC.**  
 PROPERTY: **BRISTOL PROPERTY**  
 TITLE: **BRISTOL TOWNSHIP**

**PROPERTY LOCATION** Fig. 2

Date: FEB. 2000	Scale: 1: 600,000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-368



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 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151, 267-2424

CLIENT: CAMECO GOLD INC.

PROPERTY: BRISTOL PROJECT

TITLE: BRISTOL TOWNSHIP

**CLAIM SKETCH**

Fig. 3

Date: FEB.2000

Scale: 1:20,000

NTS:

Drawn: J.C.G.

Interp: J.C.Grant | Job No.: E-368

PERSONNEL:

The field crew directly responsible for the collection of all of the raw data are as follows.

A Chaumont.....Timmins, Ontario  
E.Jaakkola.....Timmins, Ontario  
D. Collins.....Timmins, Ontario  
J. Middelton.....Timmins, Ontario  
J. Braseau.....Timmins, Ontario

The work was completed under the direct supervision of J.C.Grant and all of the plotting was completed by Exsics Exploration Limited.

GROUND PROGRAM:

The ground program was completed in two phases. The first phase was to establish a detailed metric grid across the claim block. The starting point of the grid was established by the client and the cutting program was completed by another independent contractor, not employed by Exsics Exploration Limited. The total cutting amounted to 51.9 kilometres of grid lines. The line spacing was at 100 meter intervals and the picket interval was at 25 meters.

The magnetic survey was completed over the entire cut grid except for the control line which was established from Highway 101, which was done to correctly position the cutting grid on the property. The results of the magnetic survey have been reported and have been filed earlier for assessment purposes.

Upon the completion of the ground magnetic survey and a review of those results, a series of cross lines were then considered for further follow up. These lines were to be covered by the (IP), Survey. This survey was done to locate and outline geological structures that would be considered as favourable horizons for gold deposition.

The specifications for the equipment that was used for the IP survey can be found as Appendix B of this report.



The fourth zone can be traced from the north end of line 2700ME to line 2500ME/1300MN where it appears to have been faulted and or folded to the southwest along a fault and or contact which strikes parallel to the 1500MN tie line.

Another feature outlined by the magnetic survey is a contact and or fault zone that strikes parallel to the 1500MN tieline, commencing at line 2200ME at about 1100MN and continuing across the grid to line 4200ME at the 1500MN tieline and possibly as far as line 4600ME at about 1800MN. This may represent the contact between the sediments to the south and the volcanics to the north.

The magnetic survey was also successful in locating and outlining three potential target areas that generally strike perpendicular to the grid lines.

The first of these zones is situated striking parallel to tie line 2900MN and lies between lines 4500ME and 4100ME and it appears to terminate next to the dike paralleling line 4000ME. This zone is approximately 200 to 400 gammas above the general magnetic back ground.

The second of these zones parallels tie line 2200MN and lies between lines 4500ME and 3800ME. This zone is also 200 to 500 gammas above the general magnetic back ground.

The third of these zones can be followed from line 3900ME to 2600ME and generally parallels tie line 1500MN. It also seems to parallel the suspected contact between the sediments and the volcanics. The zone appears to pinch at line 3100ME which is where the dike like structure comes in contact with this zone.

#### IP SURVEY RESULTS:

##### LINE 2700ME:

This line shows a good chargeability high contoured at 1200MN to 1300MN which has a corresponding resistivity low. This zone relates to the suspected contact between the sediments to the south and the volcanics to the north. This contact is well defined in the magnetic survey. There is a weak chargeability high at 1650 to 1725MN which lies on the southern flank of a corresponding resistivity high. This high is associated with the south side of an interpreted dike.

LINE 2900ME:

This line shows a chargeability high and a corresponding resistivity low between 1200MN and 1350MN which relates to the contact between the sediments and volcanics. There is also a weak chargeability high situated at depth between 1750 and 1875MN which corresponds to the southern edge of a good resistivity high.

LINE 3100ME:

This section still shows a good chargeability high and associated resistivity low which corresponds to the contact zone between the sediments and volcanics. Again, there also appears to be a deep and weak zone between 1775 and 1840MN which lies along the northern edge of an interpreted dike. The resistivity also shows an increase as the line progresses to the north of 1975MN.

LINE 3300ME:

This section shows the contact between the sediments and volcanics as a chargeability high and associated resistivity low between 1200MN and 1425MN. The chargeability high spreads out northward, into the volcanics. Again, the resistivities show a large build up as the line progresses north of 2250MN.

LINE 3400ME:

This line again shows the chargeability and resistivity response over the contact between the sediments and volcanics. A second zone of good chargeability is situated between 2600MN and 2800MN which is still building to the north on the upper dipoles but appears to have peaked on the lower dipoles. The corresponding resistivities show the dike influence and the chargeability appears to lie along the southern flank.

LINE 3600ME:

This line also shows the contact between the sediments and the volcanics in the chargeability and resistivity values on the south end of the line. There also appears to be a second zone that is building on the northern end of the line between 2775MN and the north end of the line. This zone correlates to a broad and weak resistivity low.

The weak resistivity high situated between 2100MN and 2300MN correlate to interpreted dikes.

LINE 3800ME:

This section outlined three chargeability highs across its survey length. The southern high is associated with the sedimentary/volcanic contact and has been well defined throughout the line section. The zone between 2425MN and 2525MN lies at the northern edge of a well defined magnetic high unit which lies within the volcanics. This magnetic high is well defined in the corresponding resistivity contours. The third zone lies between 2800MN and 3350MN that corresponds to a broad resistivity low area.

LINE 4000ME:

Again the contact zone was noted in the chargeability and resistivity contours but the chargeability high seems to be spreading out into the volcanics. The resistivity results between 1800MN and 1600MN may relate to a possible splay fault emanating from the contact zone.

The second chargeability high between 2900MN and 3375MN shows a correlation to an interpreted dike which seems to lie at the northern contact of a broad magnetic high unit. The chargeability high showing up in the later dipoles between 3200MN and 3300MN relate to a resistivity low.

LINE 4200ME:

This line outlined a number of chargeability high scattered across its length. The southern zone correlates to the contact zone and has a correlating resistivity low. There is a second zone situated at depth at 1875MN to 1925MN which also correlates to a weak narrow resistivity low. A third zone is situated between 2050MN and 2180MN which correlates to the southern edge of a resistivity high as well as a good magnetic high.

The next zone lies between 2575MN and 2725MN and appears to be strengthening at depth. It correlates to a weak narrow resistivity low unit. The final zone lies between 2875MN and the north end of the line at it contains several areas of stronger chargeability. The strongest portion of the zone appears to be building on the northern edge of the line. Most of the zone relates to a broad resistivity high with the strongest section lying between 2900MN and 3050MN.

LINE 4500ME:

This line also outlined a number of chargeability highs along its length. The southern zone appears to lie within the sediments and is strengthening at depth. It lies at the southern edge of a deep strong resistivity unit. The next zone is situated between 2025MN and 2225MN and again is stronger at depth.

The next high is situated between 2675MN and 2825MN and again is stronger at depth. The zone lies on the southern edge of a deep resistivity high.

The last zone lies between 2925MN and the north end of the line and it appears to continue off of the line to the north. It correlates to a shallow resistivity high unit. These last two resistivity highs lie on either side of a magnetic low unit, which may be a fault zone.

CONCLUSIONS AND RECOMMENDATIONS:

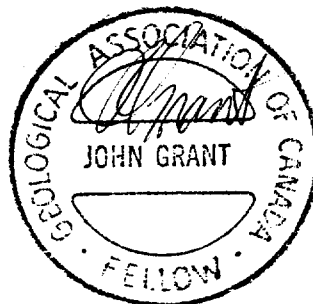
The magnetic survey was successful in locating and outlining the suspected geological structures of the grid. The dikes are well defined and generally strike as suspected. The geological contact between the sediments to the south and the volcanics to the north is also well defined and can be followed quite easily across the grid.

Of particular interest are the three magnetic units that generally strike parallel to the tie lines. These zones represent potential drill target areas especially if the IP survey indicates any type of anomaly correlating to these magnetic highs.

The IP targets within the volcanics should be followed up further either geophysically or with drilling. Perhaps a line on either side of the stronger IP targets would help in better define each of the targets.

The IP zones that lie at the contact between the sediments and volcanics should be investigated further with either deeper penetrating geophysics or by drilling. Further IP coverage on either side of several of these zones should also be considered to better define their strike and continuity.

Respectfully submitted:



J.C. Grant, CET, FGAC  
February, 2000.



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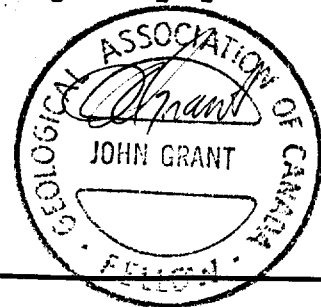
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CERTIFICATE

I, John C. Grant, hereby certify that:

- 1) I am a graduate technologist, (1975) of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology, Sudbury Campus. I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited, (5 years), North Bay office and currently as Exploration Manager and Geophysicist for Exsics Exploration Limited since 1980.
- 2) I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984
- 3) I am a Fellow of the Geological Association of Canada, (FGAC), since 1986.
- 4) I have been actively engaged in my profession since May of 1975, including all aspects of exploration studies, surveys and interpretation.
- 5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the Property holders.

John Charles Grant, CET, FGAC.



*APPENDIX A*

# VIP 3000

## RESISTIVITY AND IP ADVANCED TRANSMITTER

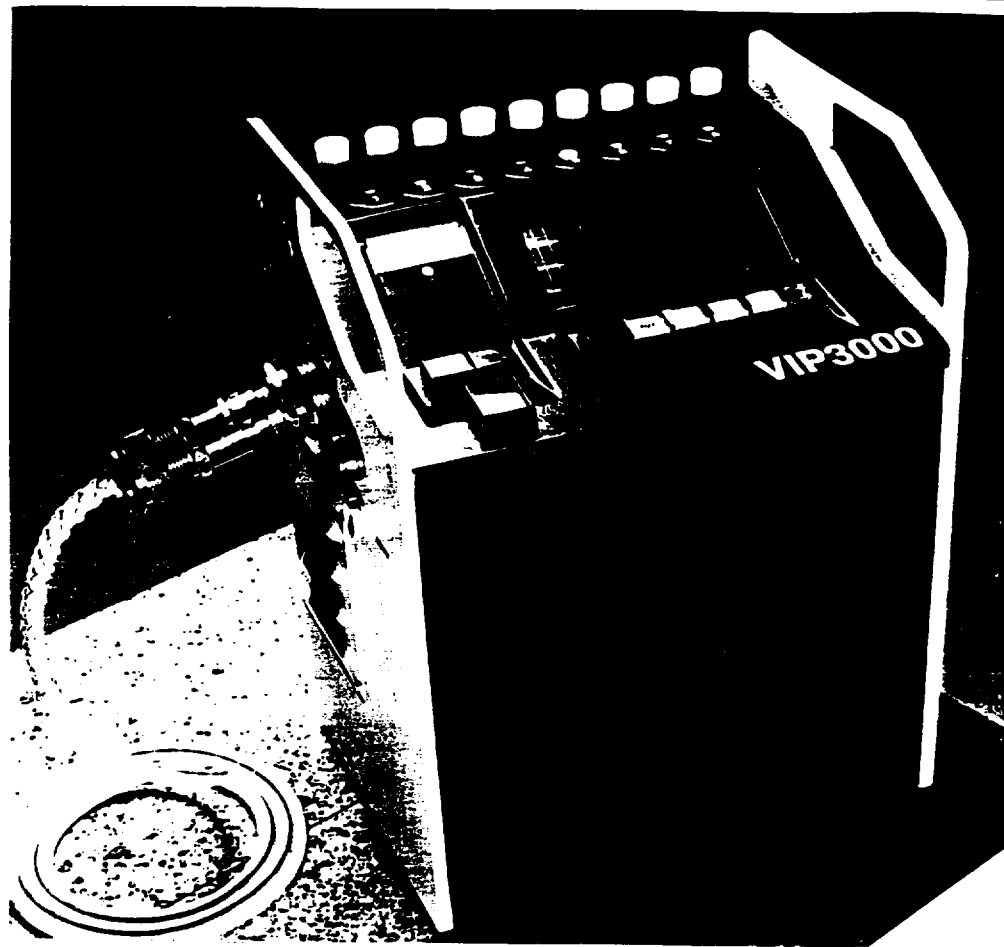
- 3000V output voltage
- Full microprocessor control
- Ease-of-use
- Standard motor generator

VIP 3000 is a three kilowatt power current regulated Time Domain and Frequency Domain electrical transmitter.

### VIP 3000 MAJOR BENEFITS

- Light in weight and provided with a high voltage (3000V) output, the VIP 3000 is particularly convenient for IP surveys in high resistivity rugged areas and for deep resistivity soundings.
- Microprocessor controlled for ease of operation and protection against misuse. All injection parameters (current, voltages, ...) are controlled. The VIP 3000 can also be operated through its remote control port (RS232).
- The VIP 3000 eight output dipoles provide for higher productivity in the field. Powered from a standard 220V single phase motor generator, the VIP 3000 eliminates the maintenance and supply problems associated with custom power sources.

- HIGH VOLTAGE ON +  
U = 2900V I = 1.00A  
R = 2.9K $\Omega$  P = 2900W  
I setpoint = 1.00A



### VIP 3000 MAIN FEATURES

#### HIGH OUTPUTS

- The VIP 3000 will generate up to 3000 volts for work in high resistivity areas and up to 5 amperes at 600 volts for low resistivity regions.
- With its weight of only 16kg, the VIP 3000 is the lightest 3000W unit on the market.

#### HEAVY DUTY CONSTRUCTION

- Very high quality connectors, and heavy duty industrial components are used throughout. The VIP 3000 is shock resistant and weatherproof, for a higher reliability.

#### FULLY AUTOMATED

- The VIP 3000 is designed for ease of operation. It has a much simplified front panel: current, dipole and frequency (in the frequency domain) settings are the only parameters to be selected by the operator. All the other functions, like voltage range setting, are fully automated.

#### PROGRAMMABLE

Programming functions are also available, either through the front panel, with a suitable key, or from an external computer terminal. These functions are used to select the parameters and options that are not normally changed during a survey: operating mode, time or frequency domain, cycle time, frequencies, etc.

- This approach reduces front panel cluttering and drastically reduces the possibility of operator mistake. Instrument reliability is also increased. For example, it is not possible to switch dipoles when transmitting. This eliminates the possibility of burning out the selector switch or the output circuitry.



## COMPLETE DISPLAY

A backlighted liquid crystal alphanumeric display is provided for the simultaneous indication of all output parameters. Output current, output voltage, contact resistance and output power are continuously displayed.

## ERROR MESSAGES

Intelligent messages and warnings are displayed in case of problem or malfunction. Besides, the permanent storage of all the parameters relating to the operation of the unit make easier the remote identification of a trouble by the manufacturer for quicker instrument servicing.

## INTELLIGENT REGULATION

The VIP 3000 internal microprocessor is capable of excellent current regulation in almost any load.

Current is operator selectable in preprogrammed steps from 50mA to 5 amperes. Intelligent current adjustment algorithms are always in operation. For example, the contact resistance will occasionally be too high for the VIP 3000 to provide the requested current setting. In such cases, the VIP 3000 will display a warning message and will set the current to the maximum value allowable under that combination of current setting and contact resistance. Some reserve current capacity will always be kept to insure that the current stays constant during the measurements, whatever the contact resistance fluctuations.

## REMOTE CONTROL

The VIP 3000 is provided with a remote control port. By using radio modems, it can be operated from a remote location.

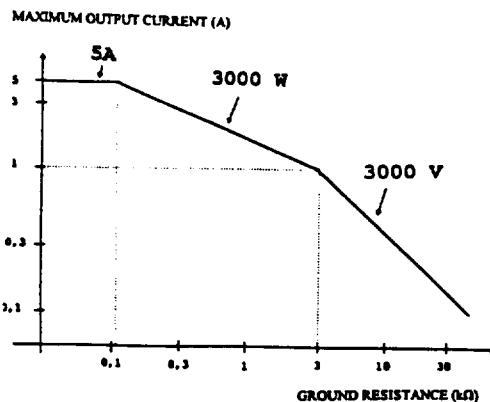
The VIP 3000 can also be linked to an intelligent receiver, or to a computer, for the automatic recording of current settings.

Finally, synchronization with a receiver or system is also possible in both directions (i.e. Rx to Tx or Tx to Rx).

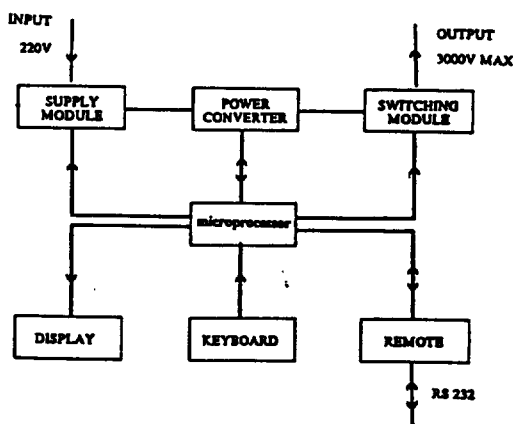
## WORKS WITH ALMOST ANY POWER GENERATOR

The VIP 3000 IP transmitter can be powered by almost any motor generator providing a nominal 230V, 45-450 Hz output, single phase, at a suitable KVA rating.

Low cost commercial generator sets, available at local hardware or equipment rental stores are perfectly suitable.



VIP 3000 LOAD LIMITS



VIP 3000 BLOCK DIAGRAM

## SPECIFICATIONS

- Output Power: 3000 VA maximum
- Output Voltage: 3000 V maximum Automatic voltage range selection
- Output Current: 5 amperes maximum, current regulated
- Current accuracy: better than 1%
- Current stability: 0.1%
- Dipoles: 8, selected by push button
- Output Connectors: Unclip™ connectors accepts bare wire or plug of up to 4 mm. diameter.
- Time Domain Waveforms: On+, off, on-, off, (on = off) preprogrammed cycle. Automatic circuit opening in off time. Preprogrammed on times from 0.5 to 8 seconds by factor of two. Other cycles programmable by user.

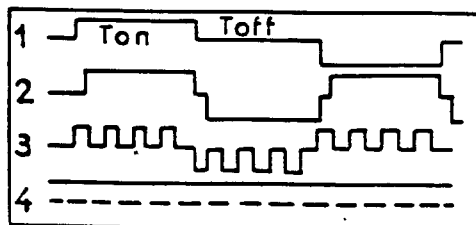
- Frequency Domain Waveforms: Square wave, Preprogrammed frequencies from 0.0625 Hz to 4 Hz by factors of 2. Alternate or simultaneous transmission of any two frequencies. Other frequencies programmable by user.

- Time and Frequency Stability: 0.01%, 1 PPB optional

- Display: Alphanumeric liquid crystal display. Simultaneous display of output current, output voltage, contact resistance, and output horse-power

- Protection: Short circuit at 20 ohms, Open loop at 60000 ohms, Thermal Input overvoltage and undervoltage.

- Remote Control: Full duplex RS-232A, 300-19200 bauds. Direct wire sync for on-time and polarity.



VIP 3000 CURRENT WAVEFORMS



IRIS INSTRUMENTS  
1, avenue Buffon  
BP 6007 - 45060 Orléans cedex 2, France  
Phone : (33) 38.63.81.00  
Fax : (33) 38.63.81.82

## GENERAL FEATURES

- Dimensions (h w d): 41 x 32 x 24 cm.
- Weight: 16 kg
- Power Source: 175 to 270 VAC, 45-450 Hz, single phase.
- Operating Temperature: -40 to +50 degrees Celsius.
- Supplied Accessories: Programming key

## Specifications

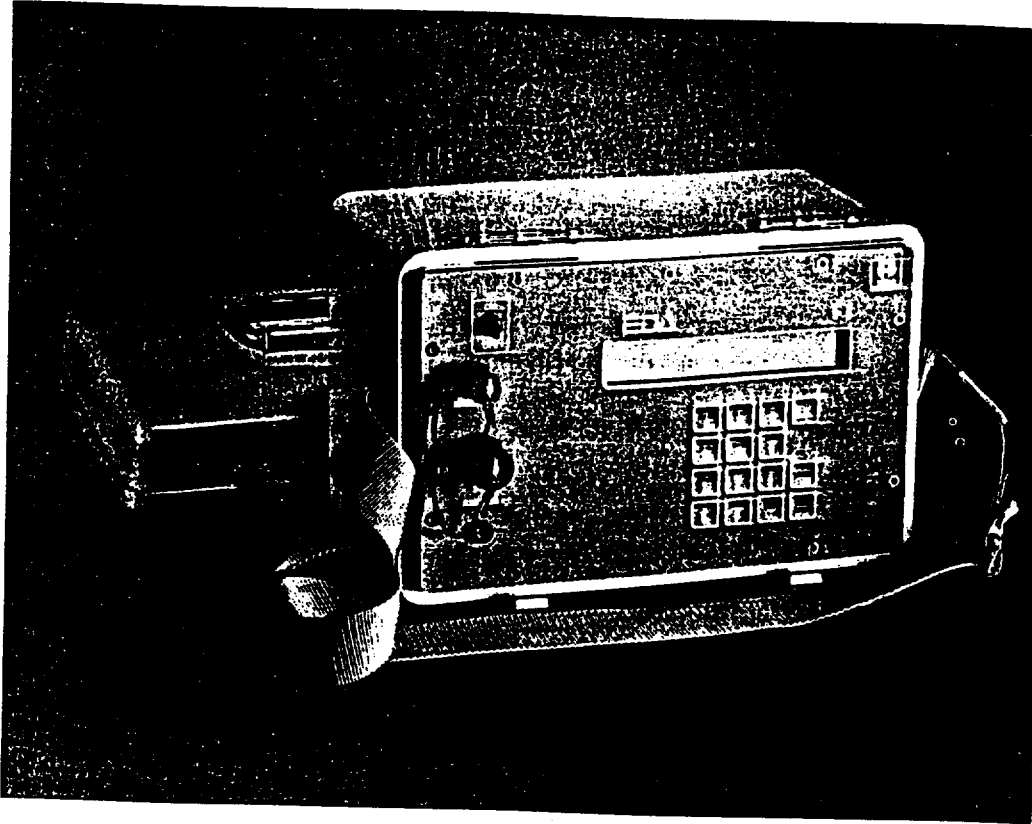
Dipoles	4 simultaneous input dipoles.
Input Voltage (Vp) Range	Standard: — 8 volt maximum for each dipole — maximum sum of 12 volts from the second to the sixth dipole. Additional Setting: — attenuation of up to 40 volts on the first dipole.
Input Voltage Protection	Up to 1000 volts.
Vp Resolution	1 microvolt.
Vp Accuracy	0.3% typical; maximum 1% over temperature range.
Chargeability Resolution	1 millivolt/volt for Vp greater than 10 millivolts. 0.1 millivolt/volt for Vp greater than 100 millivolts.
Chargeability Accuracy	0.6% typical; maximum 2% for Vp greater than 10 millivolts over temperature range.
Automatic SP Compensation	± 1 volt with linear drift correction up to 1 millivolt/second.
Input Impedance	10 megohm.
Sample Rate	10 milliseconds.
Automatic Stacking	1 to 999 cycles.
Synchronization	Minimum primary voltage level of 40 microvolts.
Rejection Filters	50 and 60 Hz power line rejection greater than 100 dB.
Grounding Resistance Check	0.1 to 128 kilo-ohms.
Compatible Transmitters	Any time domain waveform transmitter with a pulse duration of 1, 2, 4 or 8 seconds and a crystal timing stability of 100 ppm.
Programmable Parameters	Geometric parameters, time parameter, intensity of current, type of array, line and station number, dipole length, window width and delay time (mode 2).
Display	Two-line, 40-character alphanumeric liquid crystal display protected by an internal heater for low temperature conditions.
Memory Capacity	1800 sets of readings.
RS-232C Serial I/O Interface	300 to 19,200 baud rate; 7 or 8 data bits; 1 or 2 stop bits; odd, even, no parity.
Console Power Supply	Six - 1.5V "D" cell alkaline batteries with auto power save feature; 20 hours of operation at 20°C.
Operating Environmental Range	-40°C to +60°C; 0 to 100% relative humidity; weatherproof.
Weight and Dimensions	8.5 kg. (with batteries), 300 x 200 x 240 mm.
Standard System Complement	Instrument console with carrying strap, batteries, data transfer cable and operations manual.
Displayed Parameters	Primary voltage, partial and total decimalized chargeabilities, running and cumulative average of total chargeabilities (in fixed modes), standard deviation of primary voltage and total chargeability, self potential, number of cycles, dipole being measured and contact resistance.
Available Options	Stainless steel transmitting electrodes, copper sulphate receiving electrodes, alligator clips, bridge leads, multi dipole wire cable, wire spools and software programs.

EDA Instruments Inc.  
4 Thorncliffe Park Drive  
Toronto, Ontario  
Canada M4H 1H1  
Telex: 06 23222 EDA TOR  
Cable: EDAINSTRMIS TORONTO  
Telephone: (416) 425 7800  
Fax: (416) 425 8135

In USA  
EDA Instruments Inc.  
9200 E. Mineral Avenue  
Suite 370  
Englewood, Colorado, U.S.A. 80112  
Telephone: (303) 790 2541  
Fax: (303) 790 2902

# IP-4 Four Dipole Time Domain IP Receiver

# EDA



## Major Benefits

- 4 Dipoles Simultaneously Measured
- Ten Windows Available
- Choice of Arithmetic or Logarithmic Window Width
- Programmable Arithmetic Window Width
- High Input Voltage
- Weighs Only 8.5 kg.
- User Friendly

**Declaration of Assessment Work Performed on Mining Land**

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

Transaction Number (office use) <i>W0160.00018</i>
Assessment Files Research Imaging



42A06NW2023 2.20856 BRISTOL 900

Subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this report and correspondence with the mining land holder. Questions about this collection should be directed to the Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990, 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.

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

Name CAMECO CORPORATION	Client Number 114820
Address 1349 KELLY LAKE ROAD, UNIT #6	Telephone Number 705-523-4555
SUDBURY, ONTARIO P3E 5P5	Fax Number 705-523-4571
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 - Geophysical IP Survey	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>15,473</i>
Dates Work Performed From Day 10   Month 01   Year 2000 To Day 26   Month 03   Year 2000	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area BRISTOL	Resident Geologist District <i>Timmins</i>
M or G-Plan Number G-3998	

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.

*2.20856*

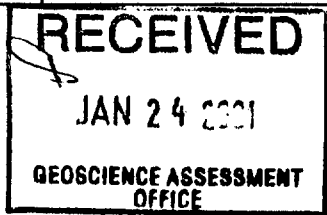
**3. Person or companies who prepared the technical report (Attach a list if necessary)**

Name EXSICS EXPLORATION LTD.	Telephone Number 705-267-4151
Address P.O. 1880, Suite 13, Hollinger Building, Timmins, Ontario P4N 7X1	Fax Number 705-264-5790
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

**4. Certification by Recorded Holder or Agent**

I, *M. KOZIOL* (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 <i>M. Koziol</i> Mike Koziol	Date <i>Jan 24/01</i>
Agent's Address Unit 6 - 1349 Kelly Lake Road, Sudbury, Ontario P3E 5P5	Telephone Number 705-523-4555
	Fax Number 705-523-4571









Statement of Costs for Assessment Credit

Transaction Number (office use)
W0160. 00018

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.

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include: GEOPHYSICAL IP SURVEY (EXSICS EXPLORATION LTD.), CAMECO SALARIES (INCLUDES: GEOPHYSICAL INTERPRETATION AND DRAFTING), Associated Costs (e.g. supplies, mobilization and demobilization), Transportation Costs, Food and Lodging Costs, Total Value of Assessment Work (\$15,472.50).

Calculations of Filing Discounts:

2.20856

- 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, M. Kozol, 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 I am authorized to make this certification. (recorded holder, agent, or state company position with signing authority)

Signature [Handwritten Signature] Date Jan 24/01

RECEIVED
JAN 24 2001
GEOSCIENCE ASSESSMENT OFFICE

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

February 12, 2001

M. Koziol  
CAMECO CORPORATION  
1349 KELLY LAKE ROAD  
UNIT #6  
SUDBURY, ONTARIO  
P3E-5P5

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

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.20856

**Status**

**Subject: Transaction Number(s):** W0160.00018 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 JIM MCAULEY by e-mail at [james.mcauley@ndm.gov.on.ca](mailto:james.mcauley@ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY  
Lucille Jerome  
Acting Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.20856

**Date Correspondence Sent:** February 12, 2001

**Assessor:** JIM MCAULEY

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0160.00018	1226640	BRISTOL	Approval	February 08, 2001

**Section:**

14 Geophysical IP

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

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

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

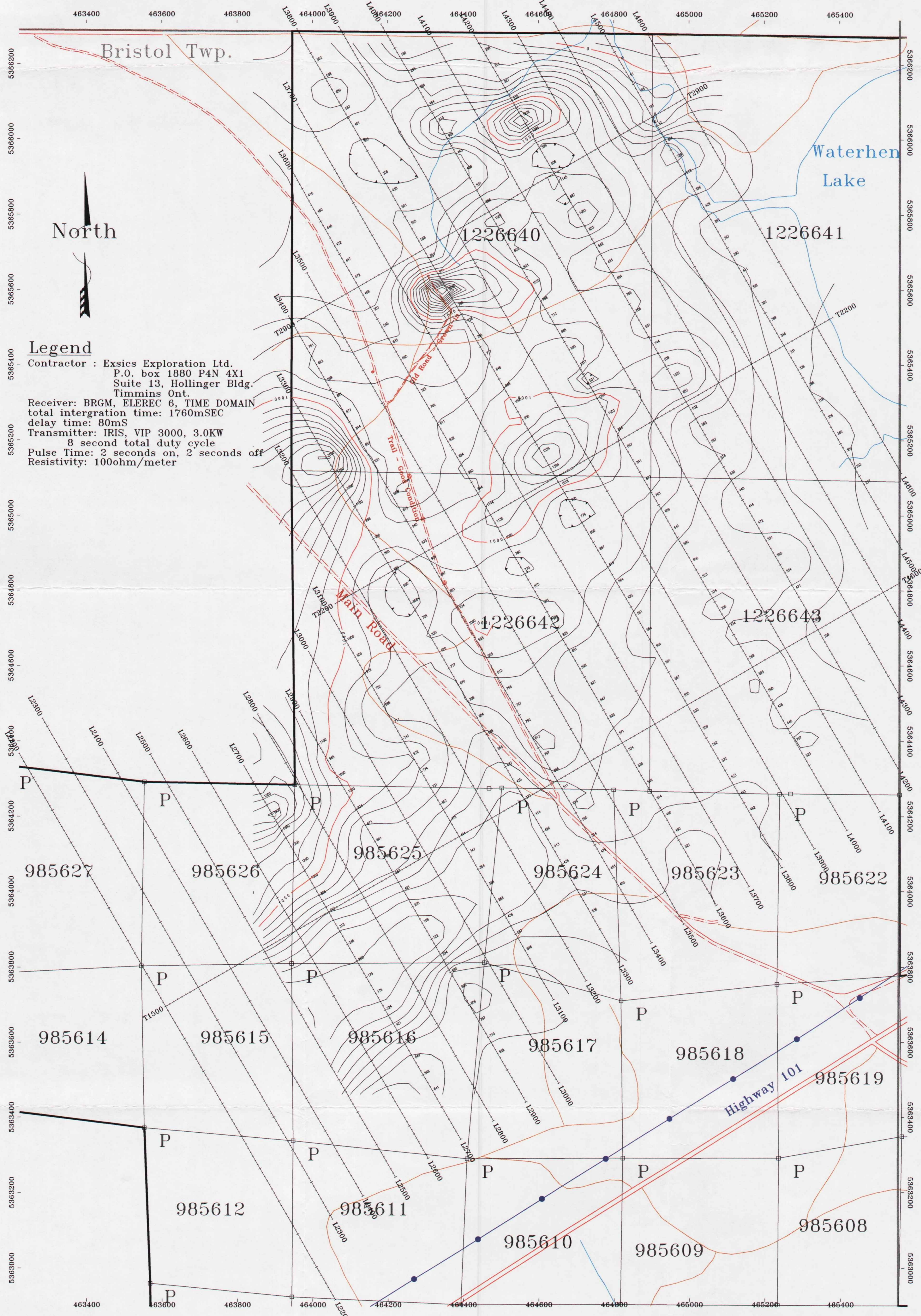
M. Koziol  
CAMECO CORPORATION  
SUDBURY, ONTARIO

Assessment Files Library  
Sudbury, ON

---

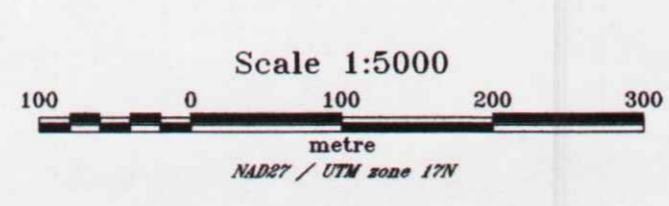






**Legend**

Contractor : Exsics Exploration Ltd.  
 P.O. box 1880 P4N 4X1  
 Suite 13, Hollinger Bldg.  
 Timmins Ont.  
 Receiver: BRGM, ELEREC 6, TIME DOMAIN  
 total intergration time: 1760mSEC  
 delay time: 80mS  
 Transmitter: IRIS, VIP 3000, 3.0KW  
 8 second total duty cycle  
 Pulse Time: 2 seconds on, 2 seconds off  
 Resistivity: 100ohm/meter

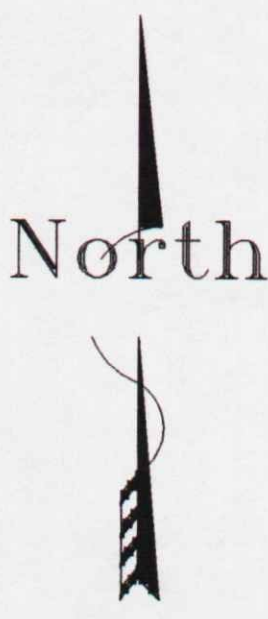
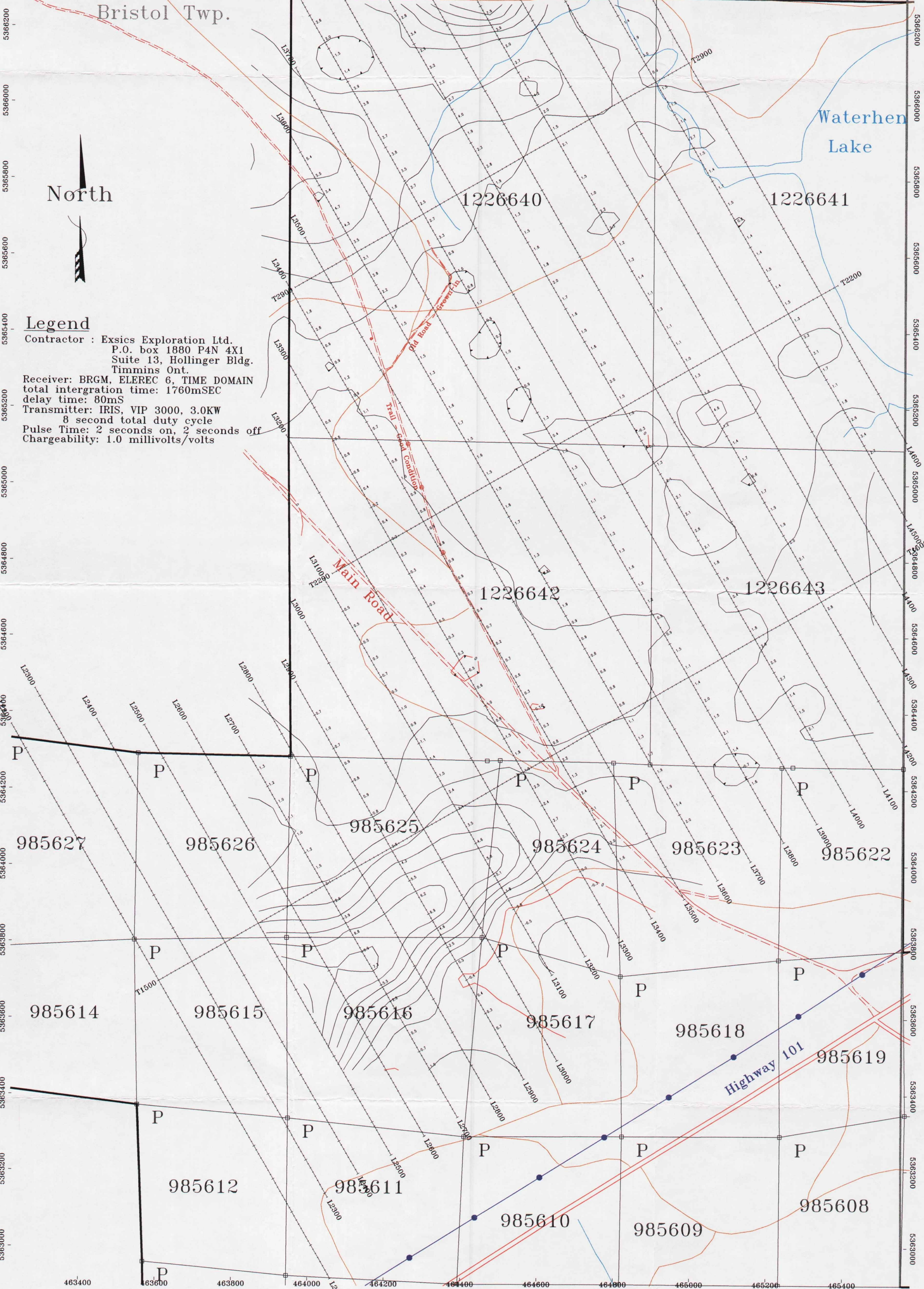


**Bristol Project**  
 IP RESISTIVITY SURVEY,(N=4)  
 ( Exsics Exploration Ltd. )

Compiled: Garnet Wood / Paul Coad	Dwg. No.:	Map 1
Drafted: Bryan Shaw	Date: Mar-16-2000	
Scale: 1:5,000	Geo. Ref: NAD 27 - UTM Zone 17	
NTS Ref: #2 A/5.6	Source:	



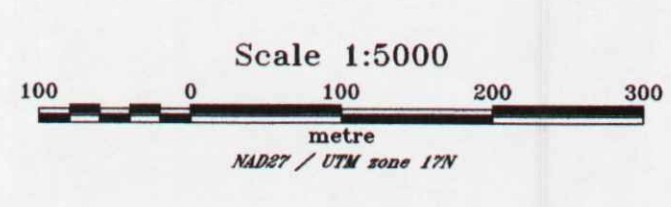
463400 463600 463800 464000 464200 464400 464600 464800 465000 465200 465400



**Legend**

Contractor : Exsics Exploration Ltd.  
P.O. box 1880 P4N 4X1  
Suite 13, Hollinger Bldg.  
Timmins Ont.  
Receiver: BRGM, ELEREC 6, TIME DOMAIN  
total intergration time: 1760mSEC  
delay time: 80mS  
Transmitter: IRIS, VIP 3000, 3.0KW  
8 second total duty cycle  
Pulse Time: 2 seconds on, 2 seconds off  
Chargeability: 1.0 millivolts/volts

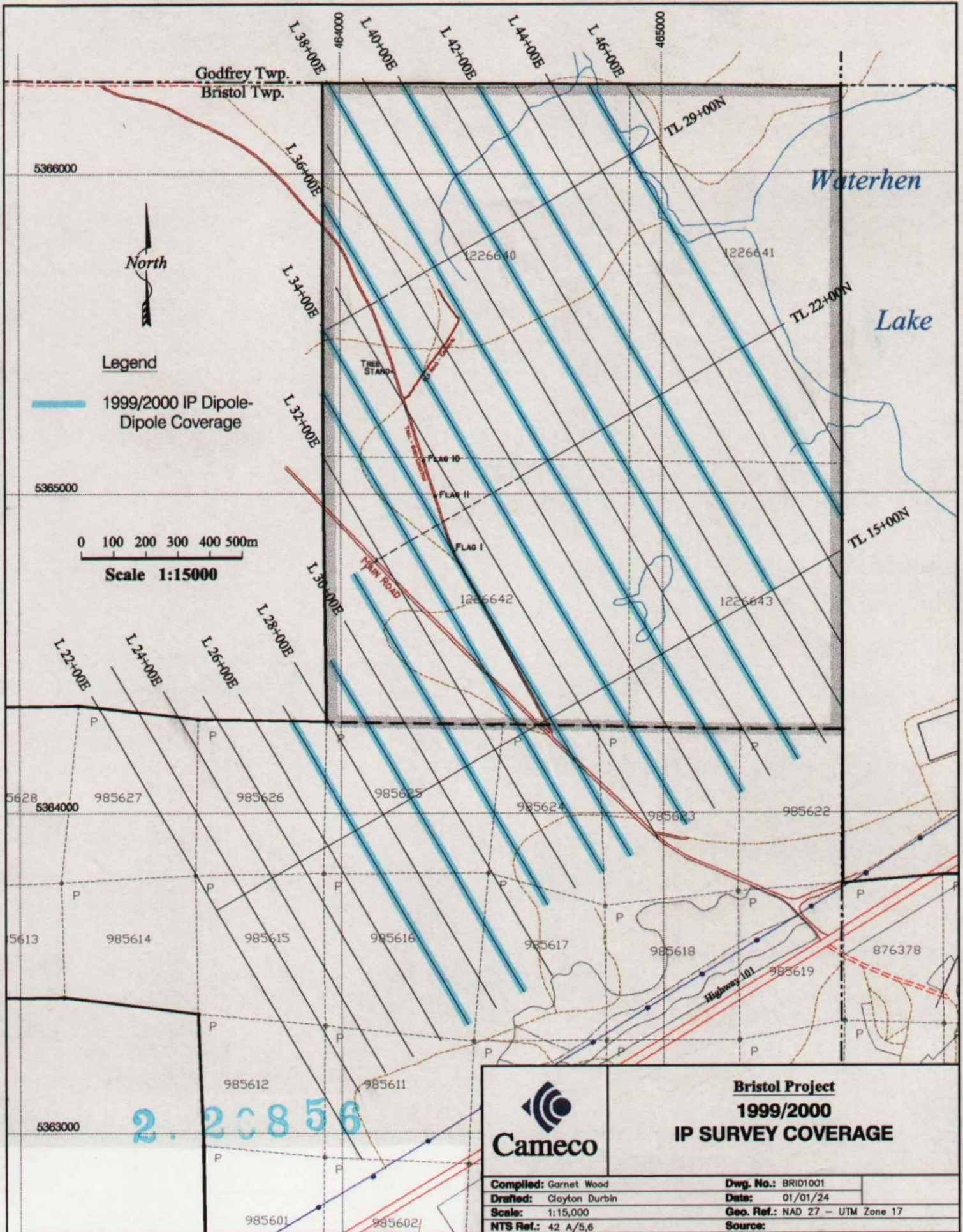
Parcel numbers: 1226640, 1226641, 1226642, 1226643, 985627, 985626, 985625, 985624, 985623, 985622, 985614, 985615, 985616, 985617, 985618, 985619, 985612, 985611, 985610, 985609, 985608




**Bristol Project**  
IP CHARGEABILITY SURVEY, (N=4)  
( Exsics Exploration Ltd. )

Compiled: Garnet Wood / Paul Coad      Dwg. No.:  
Drafted: Bryan Shaw      Date: Mar-16-2000  
Scale: 1:5,000      Geo. Ref: NAD 87 - UTM Zone 17  
NTS, Ref: 42 A/5.6      Source:





**Legend**

 1999/2000 IP Dipole-Dipole Coverage

0 100 200 300 400 500m  
**Scale 1:15000**

2. 20856

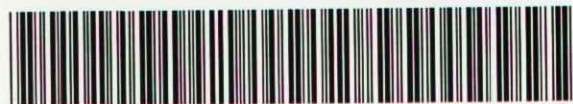


**Bristol Project**  
**1999/2000**  
**IP SURVEY COVERAGE**

<b>Compiled:</b> Garnet Wood	<b>Dwg. No.:</b> BR1001
<b>Drafted:</b> Clayton Durbin	<b>Date:</b> 01/01/24
<b>Scale:</b> 1:15,000	<b>Geo. Ref.:</b> NAD 27 - UTM Zone 17
<b>NTS Ref.:</b> 42 A/5,6	<b>Source:</b>







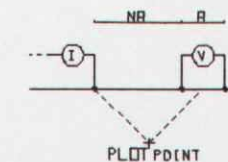
42A06NW2023 2.20856 BRISTOL

240

LINE: 2700 ME

# INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...  
"A" SPACING = 50.0 METRES

RESISTIVITY CONTOUR INTERVAL: 100OHM/METER

CHARGEABILITY CONTOUR INTERVAL: 1.0mV/V

RECEIVER: BRGM ELEREC 6, TIME DOMAIN

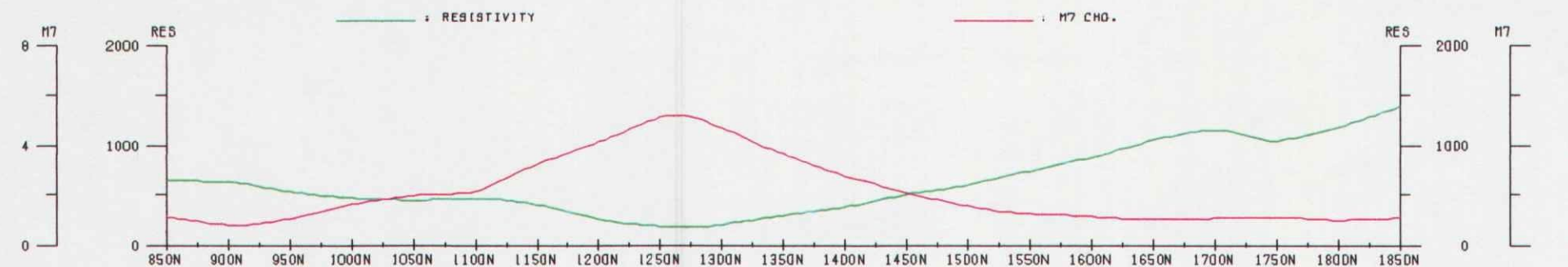
TOTAL INTEGRATION TIME: 1760mSEC

DELAY TIME: 80mS

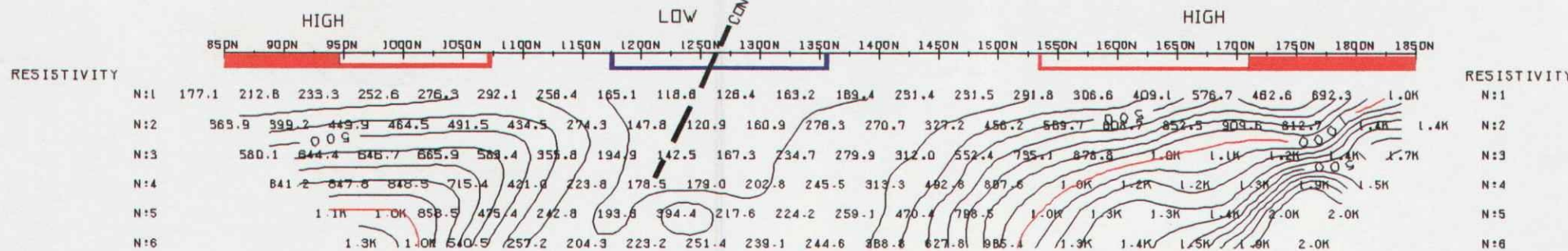
TRANSMITTER: IRIS, VIP 3000, 3.0KW

8 SECOND TOTAL DUTY CYCLE

PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



M7 CHO.	850N	900N	950N	1000N	1050N	1100N	1150N	1200N	1250N	1300N	1350N	1400N	1450N	1500N	1550N	1600N	1650N	1700N	1750N	1800N	1850N	M7 CHO.
N:1	.8	.7	.6	.6	.4	.3	.8	1.7	2.6	2.4	1.5	.9	.9	.8	.7	.8	.8	.8	1.0	1.0	1.2	N:1
N:2	.9	.8	.6	.4	.3	.9	2.2	4.8	5.4	3.5	2.1	1.2	1.1	1.0	.8	.9	.9	1.0	.9	1.0	1.0	N:2
N:3	1.1	.8	.4	.4	1.1	2.8	5.1	7.0	8.3	3.9	2.6	1.8	1.4	1.1	.9	.9	1.1	.9	.8	1.0	N:3	
N:4	1.0	.7	.5	1.3	2.8	5.5	7.3	8.9	8.8	3.9	2.9	2.1	1.5	1.2	1.0	1.1	1.0	1.2	1.2	1.3	N:4	
N:5	1.4	.4	1.6	3.5	5.4	8.3	7.4	8.5	8.6	4.8	2.6	2.1	1.4	.9	1.2	1.2	1.0	1.1			N:5	
N:6	1.8	1.4	3.2	8.3	7.8	8.1	7.1	8.0	5.5	4.9	2.7	2.1	1.4	.7	1.2	1.2	.9				N:6	



CAMECO GOLD INC.

BRISTOL TWP. PROJECT  
BRISTOL TWP.

DATE : APRIL 2000

REF : E-368

SCALE = 1 : 5000

EXSICS EXPLORATION LTD

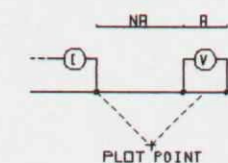




42A06NW2023 2.20856 BRISTOL 250

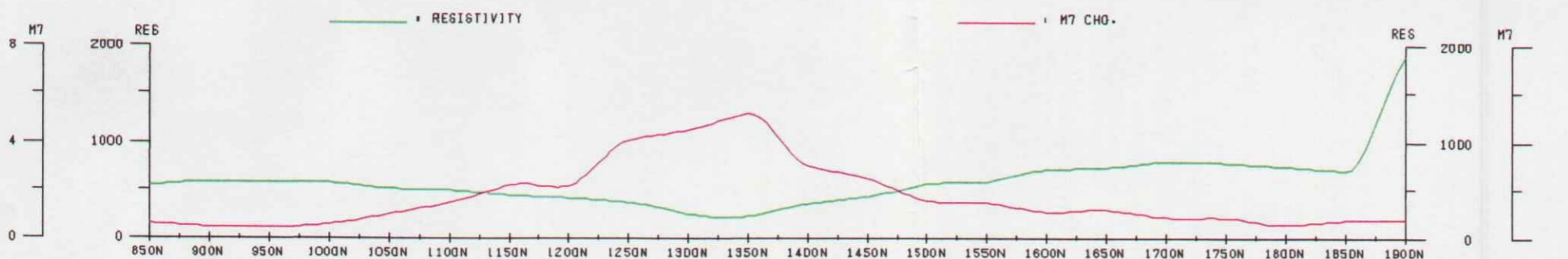
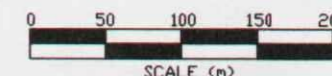
LINE 2900 ME

INDUCED POLARIZATION SURVEY  
POLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...  
"A" SPACING = 50.0 METRES

RESISTIVITY CONTOUR INTERVAL: 100OHM/METER  
CHARGEABILITY CONTOUR INTERVAL: 1.0mV/V  
RECEIVER: BRGM ELEREC 6, TIME DOMAIN  
TOTAL INTEGRATION TIME: 1760mSEC  
DELAY TIME: 80ms  
TRANSMITTER: IRIS, VIP 3000, 3.0KW  
8 SECOND TOTAL DUTY CYCLE  
PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF

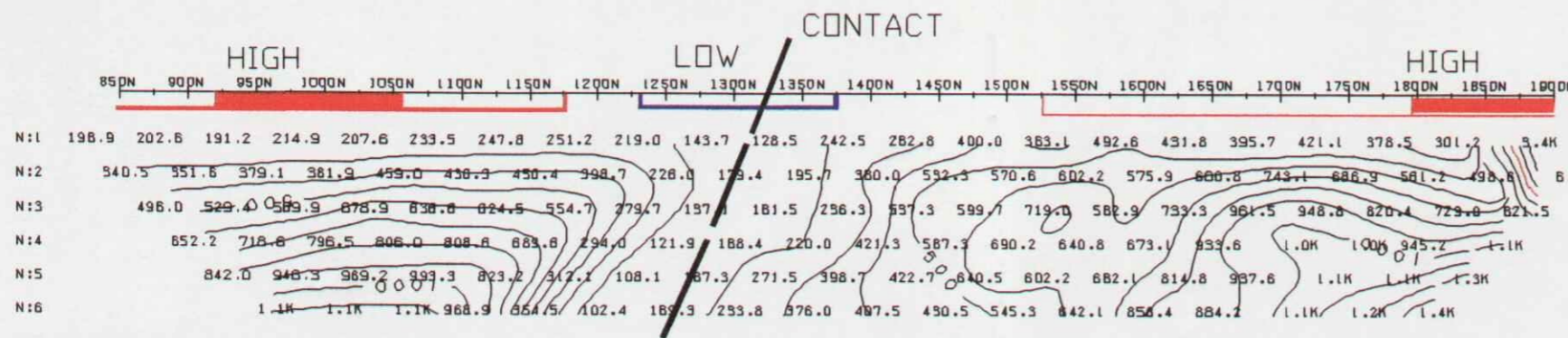


M7 CHG-

	850N	900N	950N	1000N	1050N	1100N	1150N	1200N	1250N	1300N	1350N	1400N	1450N	1500N	1550N	1600N	1650N	1700N	1750N	1800N	1850N	1900N
N+1	.6	.4	.5	.2	.2	.0	.0	.4	1.9	2.6	2.5	1.3	.9	1.0	.8	.8	.9	.9	.8	.6	.5	.5
N+2	.6	.4	.5	.0	-.1	-.1	.0	2.3	3.2	4.8	3.8	1.8	1.2	.9	.9	.8	1.0	.8	.9	.6	.5	.5
N+3	.7	.4	.4	-.2	-.3	.4	3.0	4.3	8.4	5.4	4.0	2.2	1.4	1.0	.8	.9	.9	.8	.9	.6	.6	.6
N+4	.7	.3	.4	-.4	.5	2.5	4.8	8.3	6.2	5.5	4.3	2.6	1.6	.8	.9	.8	.9	.7	1.0	.7		
N+5	.5	.6	.1	.8	2.8	4.8	8.0	6.1	6.3	5.7	5.0	2.3	1.4	1.0	.5	1.1	1.0					
N+6	.3	.5	.7	3.3	5.8	7.7	7.1	3.8	6.3	5.7	5.6	2.2	.8	-.8	1.0	.8	1.6	1.4				

M7 CHG-  
N+1  
N+2  
N+3  
N+4  
N+5  
N+6

RESISTIVITY



RESISTIVITY  
N+1  
N+2  
N+3  
N+4  
N+5  
N+6

CAMECO GOLD INC.

BRISTOL TWP. PROJECT  
BRISTOL TWP.

DATE : APRIL 2000

REF : E-368

SCALE = 1 : 5000

EXSICS EXPLORATION LTD





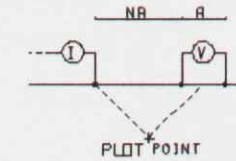
42A06NW2023 2.20856 BRISTOL

260

LINE 3100 ME

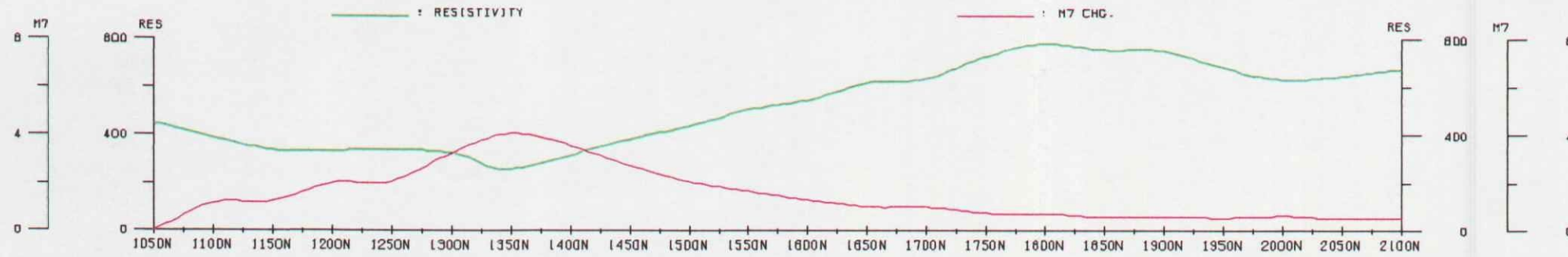
# INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



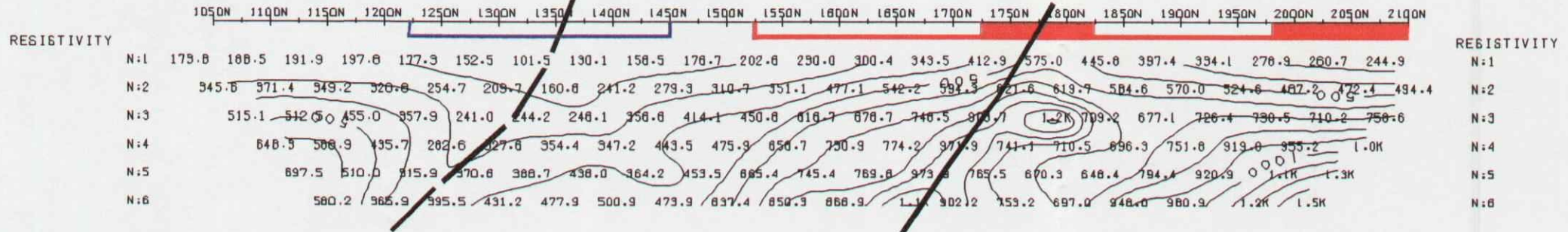
N = 1, 2, 3, 4, ...  
"A" SPACING = 50.0 METRES

RESISTIVITY CONTOUR INTERVAL: 100OHM/METER  
CHARGEABILITY CONTOUR INTERVAL: 1.0mV/V  
RECEIVER: BRGM ELEREC 6, TIME DOMAIN  
TOTAL INTEGRATION TIME: 1760mSEC  
DELAY TIME: 80mS  
TRANSMITTER: IRIS, VIP 3000, 3.0KW  
8 SECOND TOTAL DUTY CYCLE  
PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



M7 CHG.	1050N	1100N	1150N	1200N	1250N	1300N	1350N	1400N	1450N	1500N	1550N	1600N	1650N	1700N	1750N	1800N	1850N	1900N	1950N	2000N	2050N	2100N	M7 CHG.
N+1	.2	.0	-.1	.0	-.2	1.1	3.2	2.2	1.5	.9	.7	.7	.6	.6	.7	.6	.5	.5	.5	.5	.5	.4	N+1
N+2	.0	-.3	-.4	-.5	1.6	4.4	3.6	2.7	1.9	1.1	.9	.9	.7	.7	.7	.7	.5	.5	.4	.5	.6	.3	N+2
N+3	-.3	-.4	-.8	1.4	5.9	4.6	3.6	2.6	2.1	1.3	1.2	1.0	.7	.8	.6	.6	.6	.4	.6	.6	.6	N+3	
N+4	-.5	-.8	1.8	5.1	5.8	4.6	3.5	3.4	2.4	1.5	1.4	1.1	.9	1.0	.5	.7	.5	.5	.5	.5	N+4		
N+5	-.9	2.8	5.1	5.8	5.2	5.6	3.6	2.9	2.4	1.6	1.4	1.1	.8	.8	.5	.4	.1	.6	.6	N+5			
N+6	1.9	7.5	4.6	6.8	4.8	7.3	3.5	3.1	2.2	1.7	1.6	1.1	.4	1.6	.5	.4	.2	.7	N+6				

CONTACT DIKE HIGH



CAMECO GOLD INC.

BRISTOL TWP. PROJECT

BRISTOL TWP.

DATE : APRIL 2000

REF : E-368

SCALE = 1 : 5000

EXSICS EXPLORATION LTD



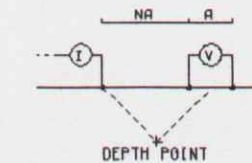


42A06NW2023 2.20856 BRISTOL 270

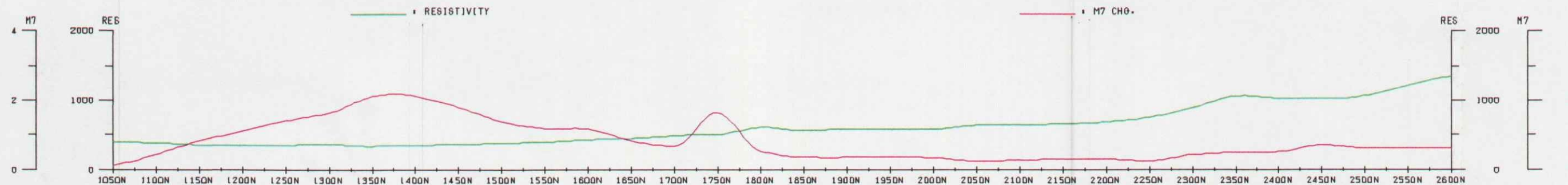
LINE 3300 ME

### INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



N = 1, 2, 4, ...  
"A" SPACING = 50.0 METRES



RESISTIVITY CONTOUR INTERVAL: 100OHM/METER

CHARGEABILITY CONTOUR INTERVAL: 1.0mV/V

RECEIVER: BRGM ELEREC 6, TIME DOMAIN

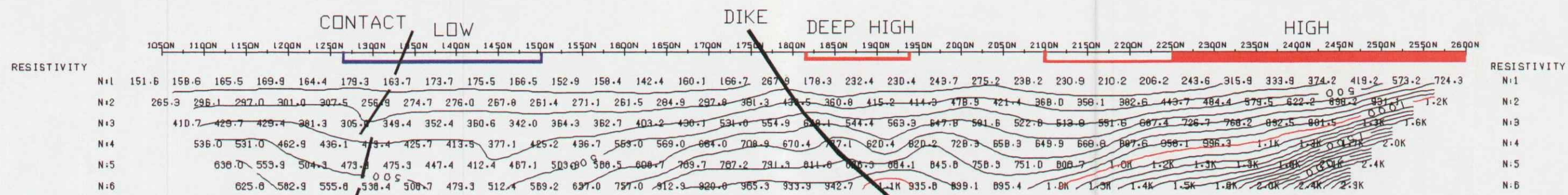
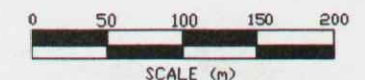
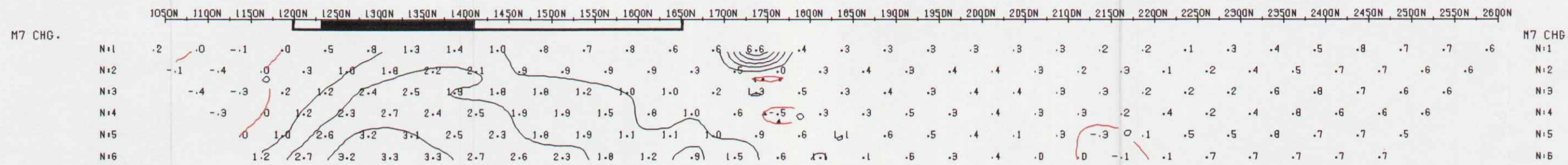
TOTAL INTEGRATION TIME: 1760mSEC

DELAY TIME: 80ms

TRANSMITTER: IRIS, VIP 3000, 3.0KW

8 SECOND TOTAL DUTY CYCLE

PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



CAMECO GOLD INC.

BRISTOL TWP. PROJECT

BRISTOL TWP.

DATE : APRIL 2000

REF : E-368

SCALE = 1 : 5000

EXSICS EXPLORATION LTD



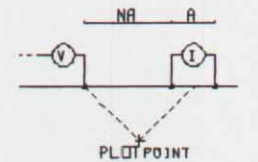


42A06NW2023 2.20856 BRISTOL 280

LINE 3400 ME

### INDUCED POLARIZATION SURVEY

POLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...  
"A" SPACING = 50.0 METRES

RESISTIVITY CONTOUR INTERVAL: 100OHM/METER

CHARGEABILITY CONTOUR INTERVAL: 1.0mV/V

RECEIVER: BRGM ELEREC 6, TIME DOMAIN

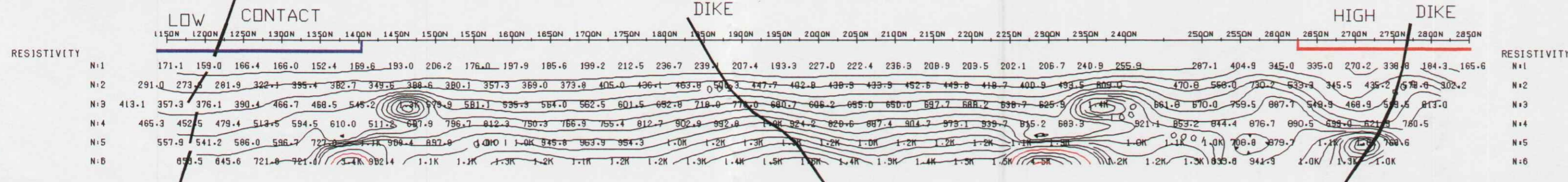
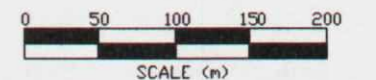
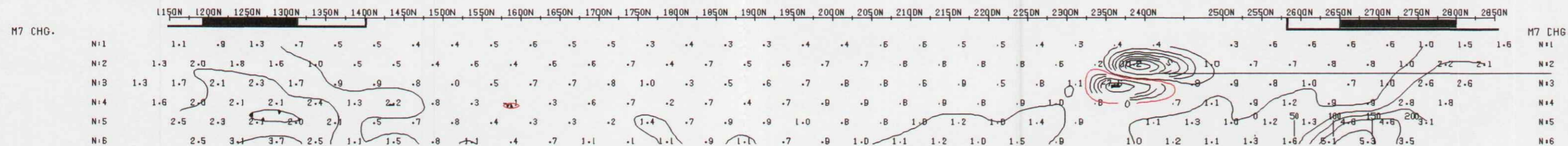
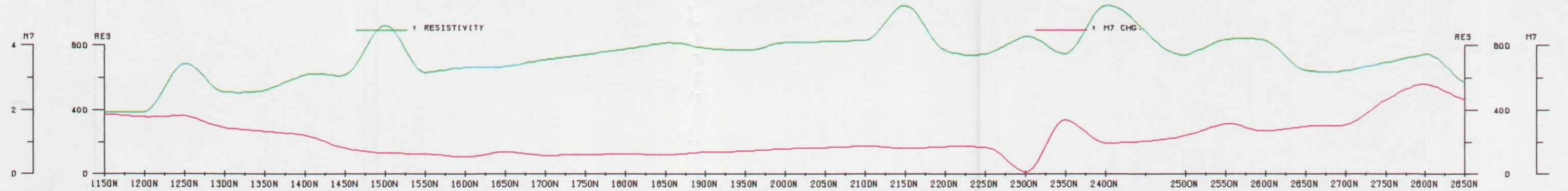
TOTAL INTEGRATION TIME: 1760mSEC

DELAY TIME: 80ms

TRANSMITTER: IRIS, VIP 3000, 3.0KW

8 SECOND TOTAL DUTY CYCLE

PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



CAMECO GOLD INC.

BRISTOL TWP. PROJECT

BRISTOL TWP.

DATE : APRIL 2000

REF : E-368

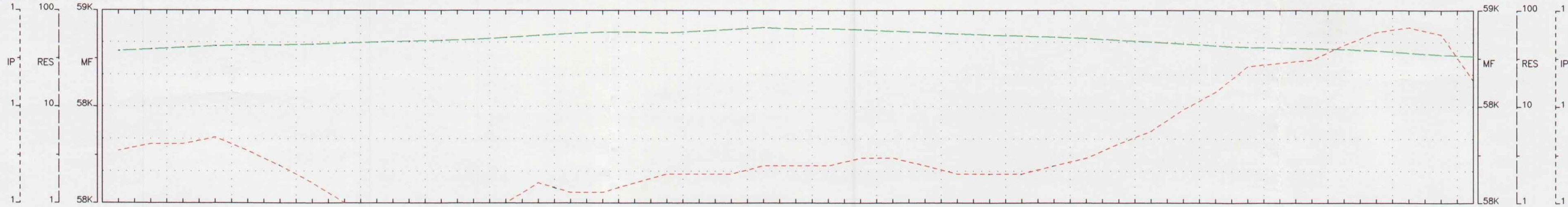
SCALE = 1 : 5000

EXSICS EXPLORATION LTD



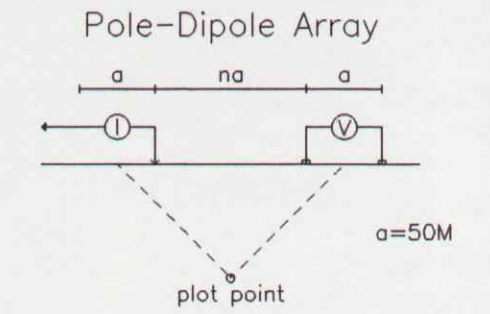


42A06NW2023 2.20856 BRISTOL 290



LINE 3600 ME

INDUCED POLARIZATION SURVEY



Filter  
\* n1  
\*\* n2  
\*\*\* n3  
\*\*\*\* n4

Cont. Intervals Profiles  
Resistivity ; 100 ohm/meter  
Chargeability ; 1.0 mV/V  
RECEIVER: BRGM, ELEREC 6, TIME DOMAIN

TOTAL INTEGRATION TIME: 1760mSEC  
DELAY TIME: 80mS  
TRANSMITTER: IRIS, VIP 3000,3.0KW  
8 SECOND TOTAL DUTY CYCLE  
PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF

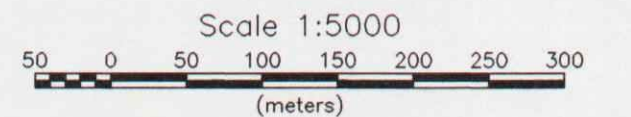
Chargeability mV/V data table with columns for stationing (11+00 N to 32+00 N) and rows for filter levels (n=1 to n=6). Values range from approximately 0.1 to 6.0.

CONTACT

DIKE

DIKE

Resistivity ohm/meters data table with columns for stationing (11+00 N to 32+00 N) and rows for filter levels (n=1 to n=6). Values range from approximately 150 to 1100.

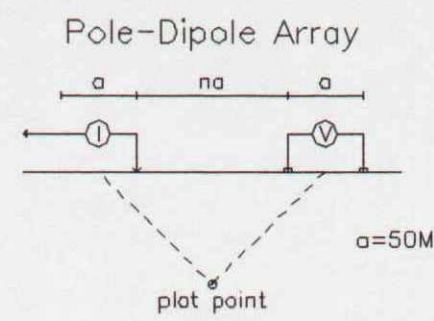
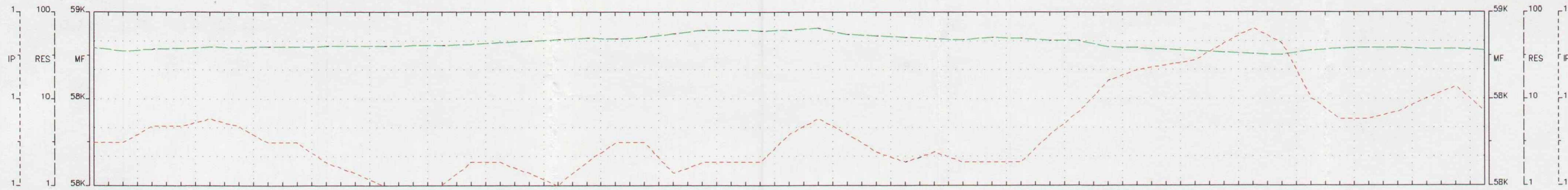


Cameco Gold  
Induced Polarization Survey  
Bristol Project  
Bristol Township





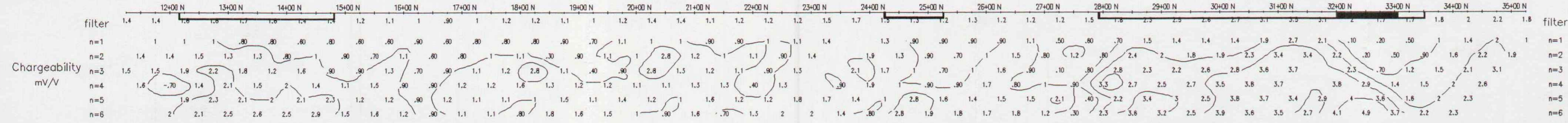
42A06NW2023 2.20856 BRISTOL 300



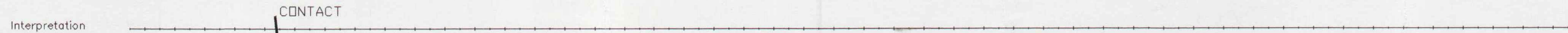
Filter  
 \* n1  
 \*\* n2  
 \*\*\* n3  
 \*\*\*\* n4

Cont. Intervals Profiles  
 Resistivity ; 100 ohm/meter ---  
 Chargeability ; 1.0 mV/V - - -  
 RECEIVER: BRGM, ELEREC 6, TIME DOMAIN  
 TOTAL INTEGRATION TIME: 1760mSEC.  
 DELAY TIME: 80ms

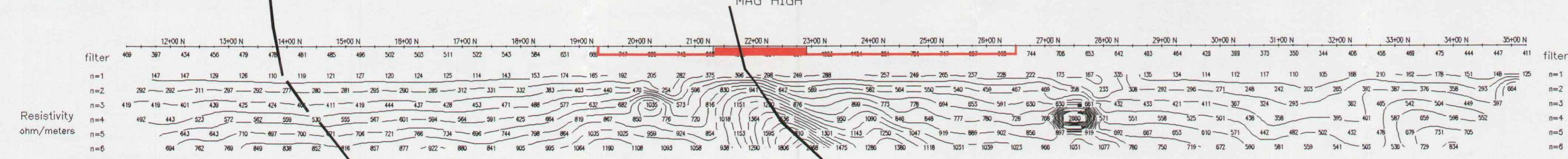
TRANSMITTER: IRIS, VIP 3000, 3.0KW  
 8 SECOND TOTAL DUTY CYCLE  
 PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



Chargeability mV/V

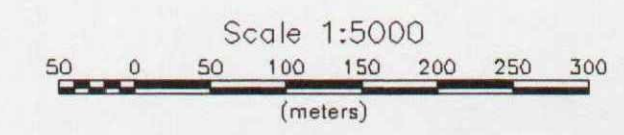


Interpretation



Resistivity ohm/meters

Resistivity ohm/meters

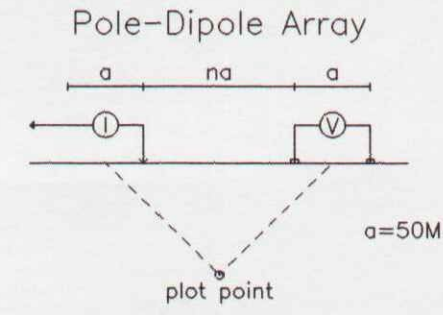
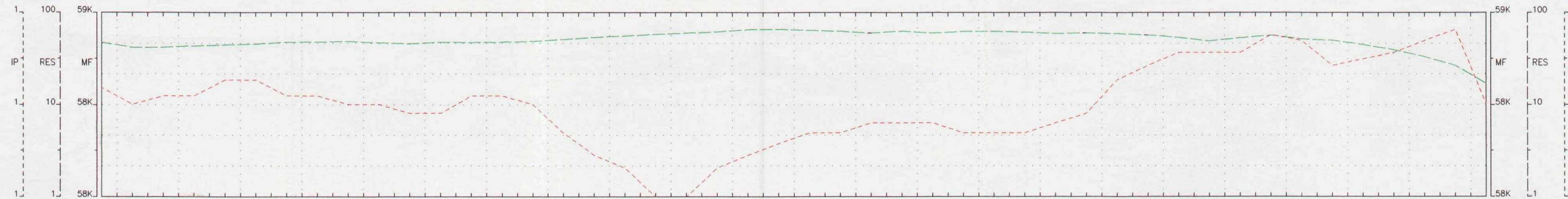


*Cameco Gold*  
 Induced Polarization Survey  
 Bristol Project  
 Bristol Township  
 Northeast Ontario  
 Geoserve Canada Inc Jan 2000.





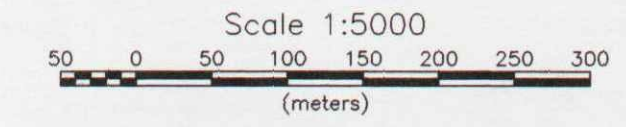
42A06NW2023 2.20856 BRISTOL 310



Filter  
\* n1  
\*\* n2  
\*\*\* n3  
\*\*\*\* n4

Cont. Intervals Profiles  
Resistivity ; 100 ohm/meter  
Chargeability ; 1.0 mV/V  
RECEIVER: BRGM ELEREC 6, TIME DOMAIN  
TOTAL INTEGRATION TIME: 1760mSEC  
DELAY TIME: 80ms

TRANSMITTER: IRIS, VIP 3000, 3.0KW  
PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF



Chargeability mV/V table with columns for stationing (12+00 N to 34+00 N) and rows for filter (2) and n=1 to n=6.



Resistivity ohm/meters table with columns for stationing (12+00 N to 34+00 N) and rows for filter (497) and n=1 to n=6.

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Bristol Township  
Northeast Ontario  
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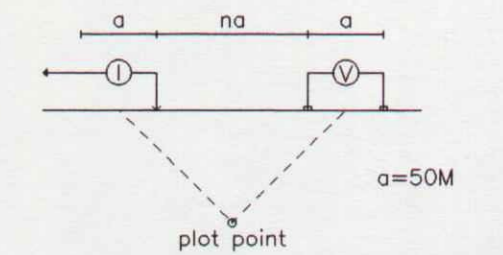


42A06NW2023 2.20856 BRISTOL 320

LINE 4200 ME

# INDUCED POLARIZATION SURVEY

Pole-Dipole Array



Filter

- \* n1
- \*\* n2
- \*\*\* n3
- \*\*\*\* n4

Cont. Intervals Profiles

Resistivity ; 100 ohm/meter ---

Chargeability ; 1.0 mV/V ---

RECEIVER: BRGM, ELEREC 6, TIME DOMAIN

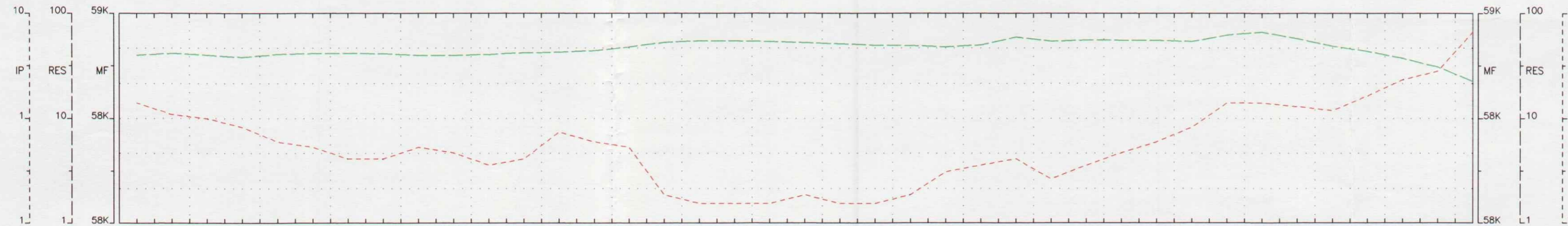
TOTAL INTEGRATION TIME: 1760mSEC

DELAY TIME: 80mS

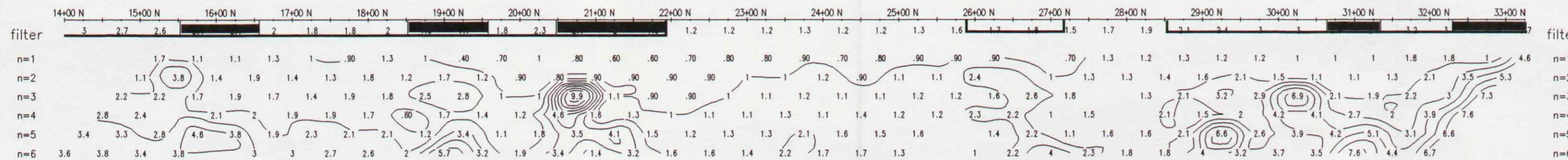
TRANSMITTER: IRIS, VIP 3000, 3.0KW

8 SECOND TOTAL DUTY CYCLE

PULSE TIME: 2 SECONDS ON, 2 SECONDS OFF

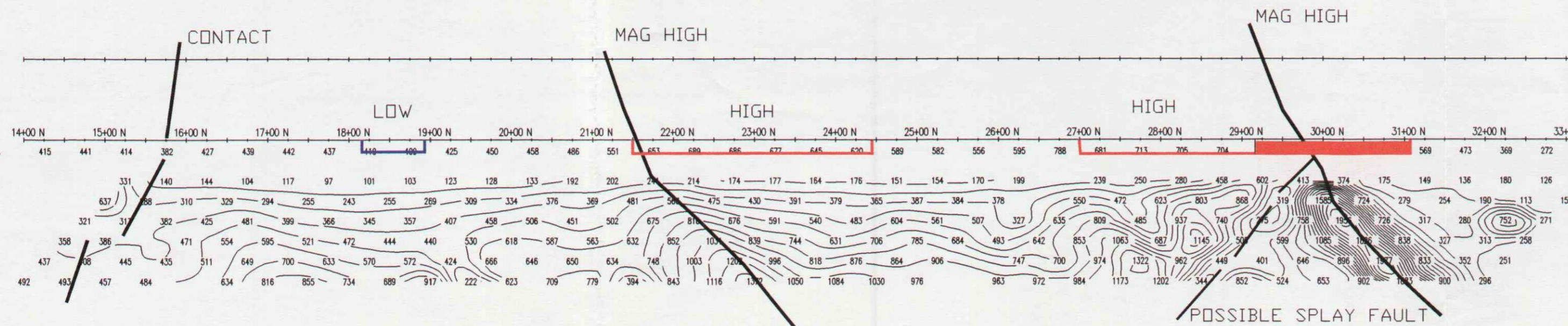


Chargeability mV/V



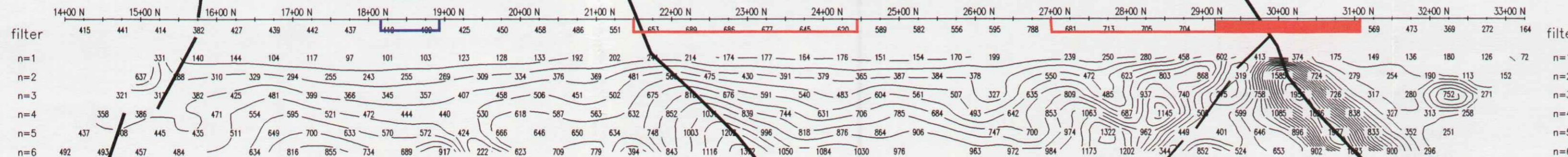
Chargeability mV/V

Interpretation



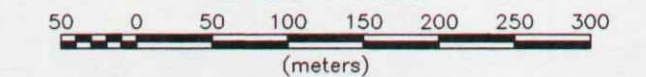
Interpretation

Resistivity ohm/meters



Resistivity ohm/meters

Scale 1:5000



Carcano Gold

Induced Polarization Survey  
 Bristol Project  
 Bristol Township

Northeast Ontario  
 Geoserve Canada Inc Jan 2000.



