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Pike River Property

An Induced Polarization Survey

Michaud, Barnet, Cook & Guibord Township, Larder Lake Mining District

Decembre 15, 1994

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MINING LANDS BRANCH

Dual.# 2.14731

Andrew A. B. Tims C.46476
American Barrick Resources Corporation
Bousquet Mine Complex
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Preissac, QC., J0Y 2E0

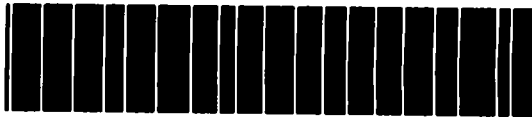


TABLE OF CONTENTS

Report	18 Pages	Pages
1. Location, Access & Topography		1
2. Exploration History		1
3. Regional Geology		3
4. Work Done		3
5. Geophysical Survey Report		4 - 15
6. Appendix 1 - GRID MAP WITH CLAIMS		16
7. Appendix 2 - PSUEDO-SECTIONS		17
8. Appendix 3 - RESISTIVITY CONTOURS -East & West		18

LIST OF FIGURES

1. Property Location Map	2
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Pike River Property

Location, Access & Topography

The Pike River property comprises 249 claims located approximately 30 kilometres north of Kirkland Lake. Figure 1. The claim block straddles Michaud, Barnet, Giubord and Cook Townships in the Larder Lake Mining Division - 42A/8, 48°30' N & 80°0' W.

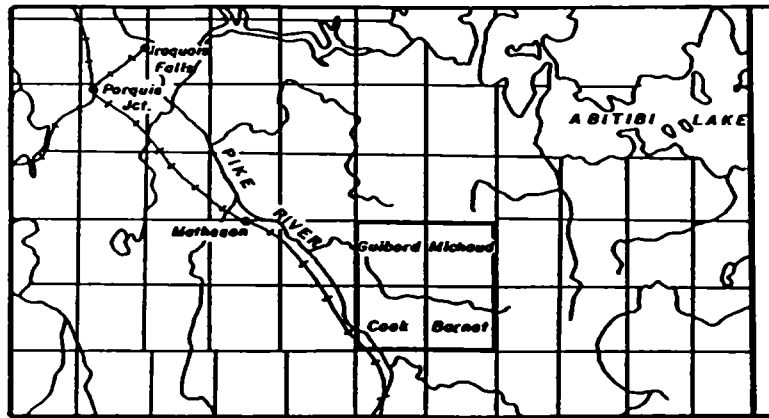
The nearest maintained road to the property is a distance of 5 kilometres away. Access to the property is gained from highway 11 via the Wavell Road turnoff and from highway 101 by a logging road 5 kilometres east of Perry Lake Lodge. Access onto the property from these routes would be by ATV or on foot since the terrain becomes very wet. Winter time or helicopter access is the preferred method for this property.

The Pike River Property lies to the north of the Hudson Bay-St. Lawrence drainage divide. Much of the area is composed of sand and clay deposits derived from the glacial lake Ojibaway. The topography is hence relatively flat with minor topographic highs resulting from outcropping bedrock. Large areas of Black Spruce, Tamarack, and Labrador Tea on floating moss characterize the area.

Exploration History

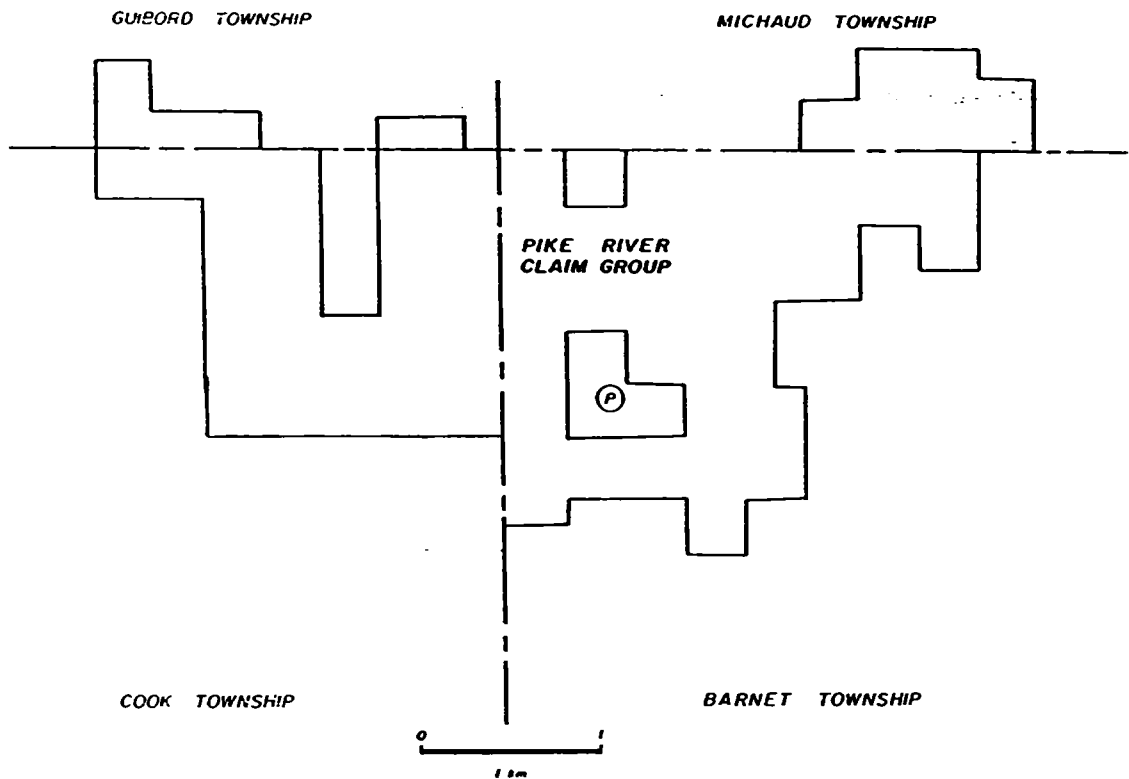
The general area underwent several periods of exploration consisting of airborne electromagnetic surveys and ground followups after the Kidd Creek discovery in 1964. Before this time, the property was under the ownership **Wright-Hargraves Mines Ltd.** in 1947 followed by **Dominion Gulf** in 1949. **INCO** ground proofed a number of isolated conductors by drill in 1965. **Noranda** completed a magnetic and geological survey followed by drilling in 1972. **Amax** staked the approximate area of the present day property in 1979.

A total of 39 reverse circulation drill holes were completed by **Bond Gold of Canada** in 1982 to determine the extend of a gold dispersion trail in the basal till. In 1983, **St. Joe** cut a grid and completed 151 reverse circulation drill holes. This was subsequently followed up with 4 DDH. Additional grid lines were cut in 1984 with 50 kilometres of magnetic & electromagnetic surveys plus 25 kilometres of an Induced Polarization survey completed. Further magnetic, electromagnetic and Induced Polarization surveys were completed in 1985 followed by 7 DDH totalling 1 403 m. The property was optioned out to **Chevron Minerals** between 1986-89 with expenditures totalling \$640 000. Work included an airborne magnetic & VLF survey, prospecting, geological mapping, 8 reverse circulation drill holes, an Induced Polarization survey & 2 DDH in the northwest corner of the property plus 8 DDH in Barnet Township.



INDEX MAP

SCALE 1 : 1,000,000



PROPERTY MAP

Figure 1
Location of Pike River Project

Regional Geology

Structurally, the property lies on the stragic south side of a regional flexure of the Destor Porcupine Fault Zone, DPFZ , which extends from the Harker-Hollaway area in the east to Hislop Township in the west. Within this dilatant zone, more than 200 hundred gold showings and deposits have been identified. Deposits such as Holt-McDermott Mine occur along low angle splay faults which trend approximately southwest from the DPFZ.

The property is underlain by intercalated, Fe-tholeiitic and Mg-theoliitic basalts of the Kinojevis Group. The Kinojevis Group in the north portion of the property is separated from a thin banded siltstone sequence by major faulting. This sedimentary package is separated from the ultramafics and syenites to the north by the DPFZ. On a regional scale, the Kinojevis Group forms a south facing homocline with a syncline adjacent to the DPFZ. Intruding the volcanic sequence in the central part of the property is a set of small discontinuous syenitic dykes that typically trend to the northeast. The youngest rocks on the property are the north trending Matachewan diabase dykes.

Work Done

Between the months of June, July, August, and September, a north-south grid at 200 m. spacing was cut across the property. The Michaud/Barnet & Giubord/Cook township boundary was used as the east-west 0+00 N baseline .See appendix I. The baseline was subsequently surveyed in using a total station theodolite due to the age of the original cut township line and past forest fire history of the area. Pickets were placed every 25 m. with metal tags every 50m . A number of parallel tielines were cut at 12+00S, 24+00S & 31+25S. The grid totalled 39 kilometres of transit line plus 192 kilometres of cut line.

In October and November, an IP survey was completed over the Barnet/Michaud Township portion of the grid by Val D'OR Geophysics. An orientation survey was carried out over line 76+00E & 78+00E to determine which array configuration, dipole-dipole or pole-dipole, would provide the best results. Since previous workers reported significant amounts of hematite alteraion, the two orientation lines were also processed by spectral IP (cole-cole modeling) to determine the nature of the IP responses. As a result of the test survey, the remainder of the survey was completed using the pole-dipole array for a total of 76.4 kilometres.

APPENDIX 1



GEOPHYSICAL SURVEY
Property of
AMERICAN BARRICK RESOURCES CORP.
PIKE RIVER Project
Michaud and Barnet Townships
Province of Ontario
November 1994

P. Lortie

94-1115

SUMMARY

From October 4 to November 13, 1994, an induced polarization and resistivity survey was carried out on a property owned by **AMERICAN BARRICK RESOURCES CORPORATION**, designated **PIKE RIVER Project**, and located in Michaud and Barnet Townships, Province of Ontario. A test survey with two different arrays and Cole-Cole parameters calculation were also carried out on few lines.

The survey was designed to locate anomalies potentially caused by sulphide-rich zones and to detect and define lithologies and structures favorable for precious and/or base metal deposits.

The test survey was designed to compare dipole-dipole and pole-dipole electrode arrays while the Cole-Cole calculations were done to evaluate the usefulness of the additional parameters.



AMERICAN BARRICK RESOURCES CORPORATION

The results from this survey are briefly interpreted and show few polarizable sources characterized by very weak to moderate non conductive responses. It is interpreted that several of these anomalies are associated with and caused by disseminated sulphide mineralization.

Both electrode arrays detected the polarizable sources on lines 76+00E and 78+00E with little improvement from the dipole-dipole array to the pole-dipole array (with the exception of an increase in on-time voltage at the receiver resulting in a slightly improved signal-to-noise ratio).

The calculation of Cole-Cole parameters such as the exponent and time constant has not improved or brought additional usefull information to the interpretation results.

It is suggested to drill test the polarizable sources located at 13+50S on line 70+00E, at 6+40S on line 116+00E, and at 4+50N on line 128+00E.



TABLE OF CONTENTS

	Page
Table of contents.....	i
Introduction.....	1
Property, location and access.....	1
Geophysical survey and instrumentation.....	2
Survey specifications.....	2
Results and interpretation.....	3
Conclusion and recommendations.....	5
Certificate.....	6

FIGURE:

Figure #1: Survey area.....	ii
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MAPS:

DRAWING NO.

INDEX OF CLAIMS

Index of claims

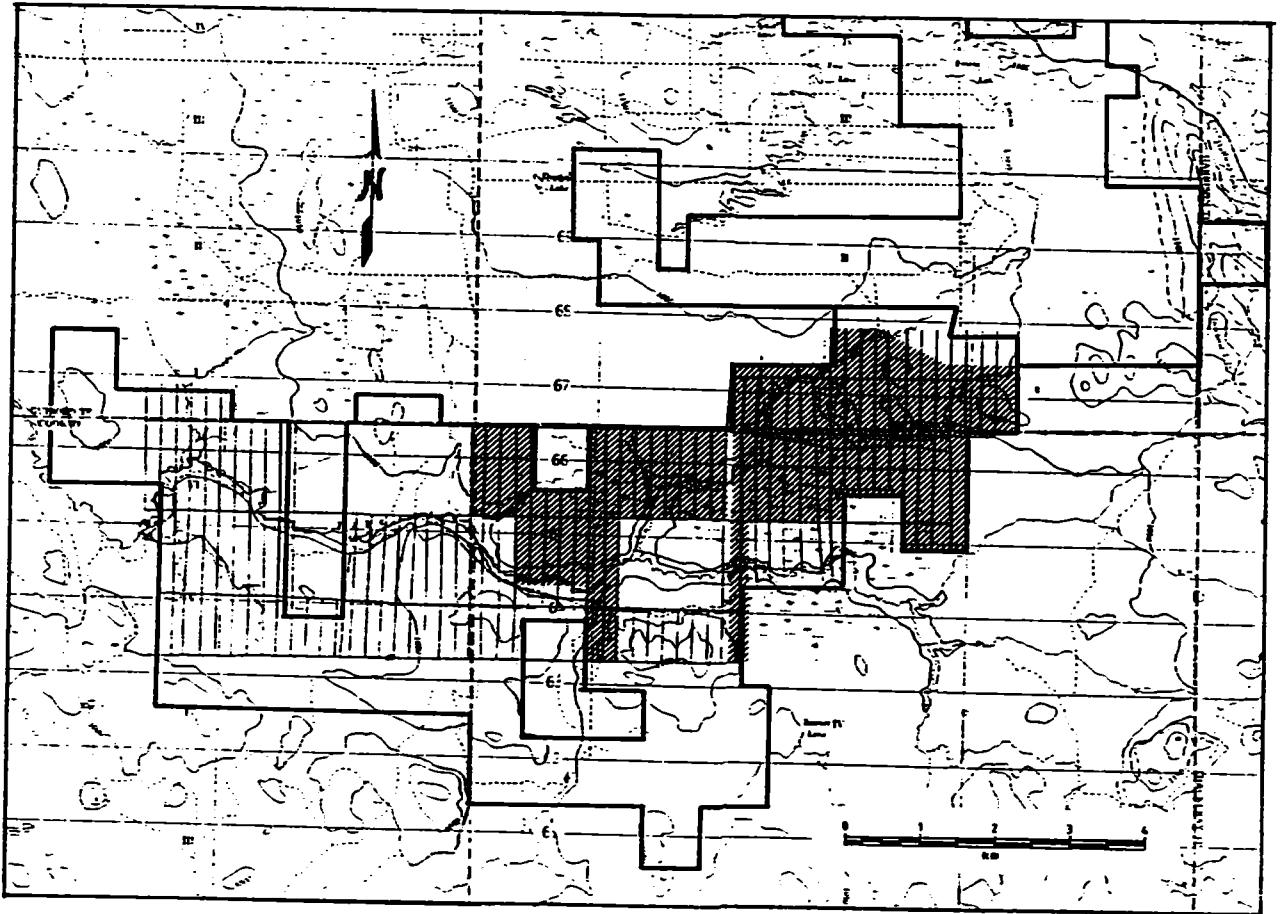
DRAWING NO.

INDUCED POLARIZATION SURVEY

W and E / 4.2

Resistivity Contours (filter)





AMERICAN BARRICK RESOURCES CORPORATION

PIKE RIVER Project

Figure #1: Survey area



INTRODUCTION

An induced polarization and resistivity survey was carried out during the months of October and November 1994, on a property owned by **AMERICAN BARRICK RESOURCES CORPORATION**, designated **PIKE RIVER Project**, in Michaud and Barnet Townships, Province of Ontario. A test survey with two different arrays and Cole-Cole parameters calculation were also carried out on few lines.

This survey was designed to locate anomalies potentially caused by sulphide-rich zones and to detect and define lithologies and structures favorable for precious and/or base metal deposits. The test survey was designed to compare dipole-dipole and pole-dipole electrode arrays while the Cole-Cole calculations were done to evaluate the usefulness of the additional parameters.

PROPERTY, LOCATION AND ACCESS

The property is located approximately 15 kilometres South-East of Matheson. The property covers the central parts of Michaud and Barnet Townships, Province of Ontario.

The survey area is accessible via helicopter or bush trails from the logging road which can be taken from highway #101.



The property claim numbers, shown in figure #1, have been registered with the Ministry of Northern Development and Mines of Ontario. The area covered by this survey is shown in figure #2 of the present report.

GEOPHYSICAL SURVEY AND INSTRUMENTATION

The induced polarization and resistivity survey was executed from October 4 to November 13, 1994. A total of 72.5 line-kilometres was covered by the induced polarization and resistivity survey using a Phoenix IPT-1 transmitting system with a 2,4-kW MG-2 motor generator, and a BRGM IP-6 receiver unit.

SURVEY SPECIFICATIONS

The geophysical survey was carried out along a network of N-S oriented picket lines spaced every 200 metres. The lines were chained and stations marked every 25 metres.

The induced polarization and resistivity survey was done in time domain with the pole-dipole array, the current electrode always located to the north of the receiver dipoles. Sections of two lines, namely 76+00E and 78+00E, were also covered with the dipole-dipole array.

An electrode separation (a) of 75 metres was used, and the primary voltage and chargeability values were measured every 75 metres for dipole separations (n) of 1 to 6, respectively with a precision of 0,1 mV and 0,1 mV/V.



Cole-Cole calculation was carried out on the pole-dipole results of lines 76+00E, 78+00E and 80+00E to evaluate the usefulness of the additional parameters (time constant and exponent). The calculation was done using only decreasing chargeability values measured over a two-second period at each dipole separation. The measurements were done in the 3rd mode of the IP-6 receiver (logarithmic increase of window width) and a minimum of 3 successive decreasing windows, out of ten, were requested for calculation.

RESULTS AND INTERPRETATION

Due to the presence of a moderately conductive and thick overburden layer over most of the area, the apparent resistivity values measured on the property vary from 100 ohm-metres up to 500 ohm-metres. In some areas, subcropping lithologies disrupt the vertical layering effect of the thick overburden and apparent resistivity values of few thousands of ohm-metres are also observed. In other areas, outcropping lithologies increased the measured apparent resistivity from 5 to 40 kohm-metres.

The induced polarization effects measured during this survey present a very low background of less than 2 millivolts/volt (mV/V) in all areas dominated by the presence of conductive overburden, and slightly greater in areas of subcropping and outcropping lithologies. It appears that the overburden thickness varies from approximately 75 metres in the western part of the survey area to less than 25 metres towards the east. Outcropping lithologies are also observed at the southern end of the longest survey lines.



The surveys detected few very weakly to weakly anomalous responses which are characterized by polarization effects of 1 to 2 mV/V above background, none of which is associated with any apparent resistivity variation. Few moderately anomalous and non conductive polarization responses of 3 to 30 mV/V above background are also observed on this property.

Generally, most of these E-W oriented anomalous polarization responses are interpreted to be caused by the presence of disseminated to non conductive semi-massive sulphide mineralization or, possibly for the most southern anomalous horizon, by non conductive graphitic metasedimentary rocks.

Some of these polarizable anomalies are suggested for drill testing: the moderately anomalous horizon located near station 14+00S on lines 64+00E to 78+00E, with the strongest anomaly on line 70+00E at 13+50S; the very weakly to weakly anomalous horizon located on lines 96+00E to 122+00E between stations 7+00S and 6+00S, with possibly the best anomaly on line 116+00E at 6+40S; and the moderately anomalous horizon on lines 124+00E to 128+00E (open to the east) near station 4+50N, with the strongest response on line 128+00E at 4+50N (and improving to the east).

Two other anomalous zones were also detected: a localized moderate response on line 108+00E at 0+50S; and a broad response on line 106+00E at 4+50N, possibly associated with and caused by outcropping lithologies. Late cross-cutting structures are also outlined by the apparent resistivity results, with orientations of WNW-ESE and ENE-WSW indicating the possible presence of a conjugate fault system.



The dipole-dipole results of the test survey carried out on sections of lines 76+00E and 78+00E are very similar to their pole-dipole counterparts and no additional information has been provided. The calculation of Cole-Cole parameters for the pole-dipole survey results on line 80+00E in addition to the above two lines has not provided any substantial information either.

CONCLUSION AND RECOMMENDATIONS

The induced polarization and resistivity survey executed on the PIKE RIVER Project of AMERICAN BARRICK RESOURCES CORPORATION, permitted to outline few very weak to moderate polarization anomalies which are non conductive and generally narrow to broad with respect to the electrode spacing.

Most of these polarization anomalies are probably caused by the presence of disseminated to non conductive semi-massive sulphide mineralization or, for the most southern anomalies, by a graphitic metasedimentary horizon. Some of these polarizable anomalies are suggested for drill testing but the best selection of targets should take into account all of the other geoscientific information.

Respectfully submitted,
VAL D'OR GEOPHYSICS LTD.

By:


Paul Lortie, P.Eng.
Geophysicist



CERTIFICATE

THIS IS TO CERTIFY THAT:

I reside at 681 Boullé, Beloeil, Province of Quebec, Canada, since 1990.



I am a graduate of Ecole Polytechnique, Université de Montréal, where I have received a B.Sc.A. in Geological Engineering in 1979.

I have been engaged in exploration geophysics since 1977 and have been practicing as a professional engineer since 1979.

I am a member of the Ordre des Ingénieurs du Québec since 1979.

I do not hold nor do I expect to receive an interest of any kind in the exploration concessions held by **AMERICAN BARRICK RESOURCES CORPORATION**, on the **PIKE RIVER Project**.

Signed in Val d'Or, this November 28th, 1994.

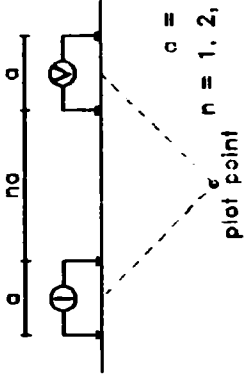


Paul Lortie, P.Eng.
Geophysicist



APPENDIX II

Line 78+00 E

★Dipole-Dipole Array



Filtered Profiles

Resistivity
Polarization
Metal Factor

Filter
* * *
* * * * *
* * * * *

Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Gérard Couture

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- ◇ Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature. Bedrock valley or thick overburden. Structural causes?

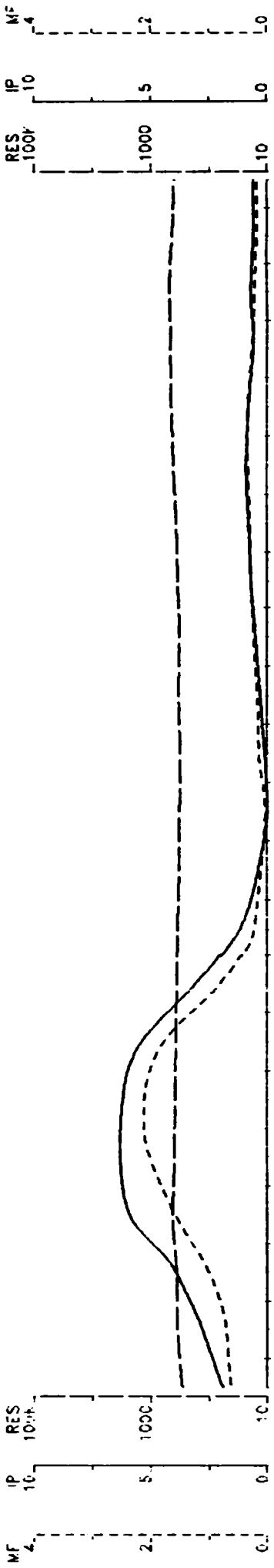
Induced Polarization Survey
AMERICAN BARRICK RESOURCES CORP.

Pike River Project
Michaud - Barnet Townships

Date: 94/11/27
Interpretation by: P. Lortie, P. Eng.
Scale 1 : 7500

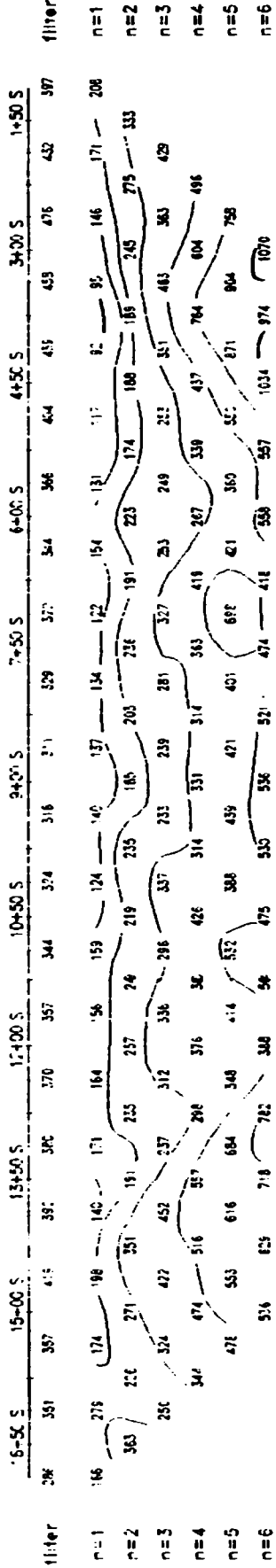
VAL D'OR GEOPHYSICS LTD

94-1115



TOPOGRAPHY

RESISTIVITY
(Ohm * m)

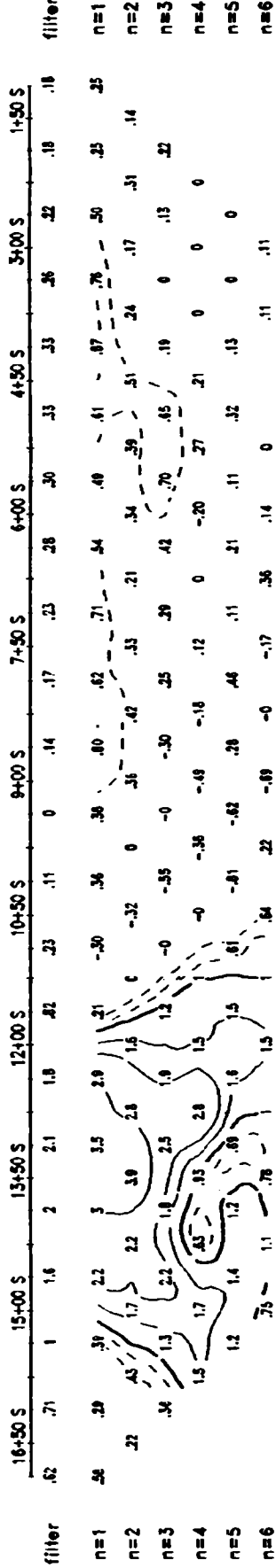


CHARGEABILITY
(mv/v)



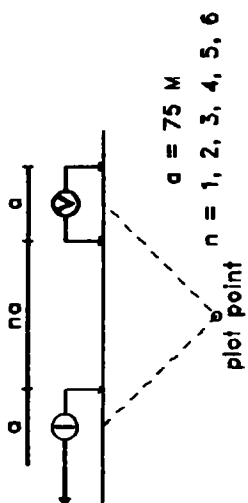
INTERPRETATION

METAL FACTOR
(ip/res * 100)



Line 58+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity ---
Polarization ---
Metal Factor - - - - -

Logarithmic Contours
1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Luc Bilodeau

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature. Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

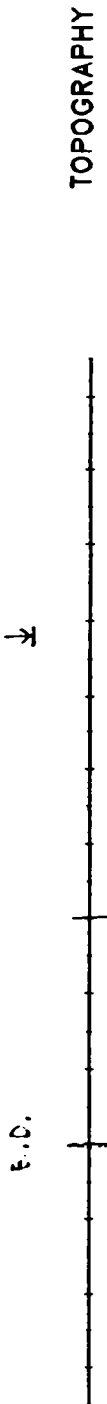
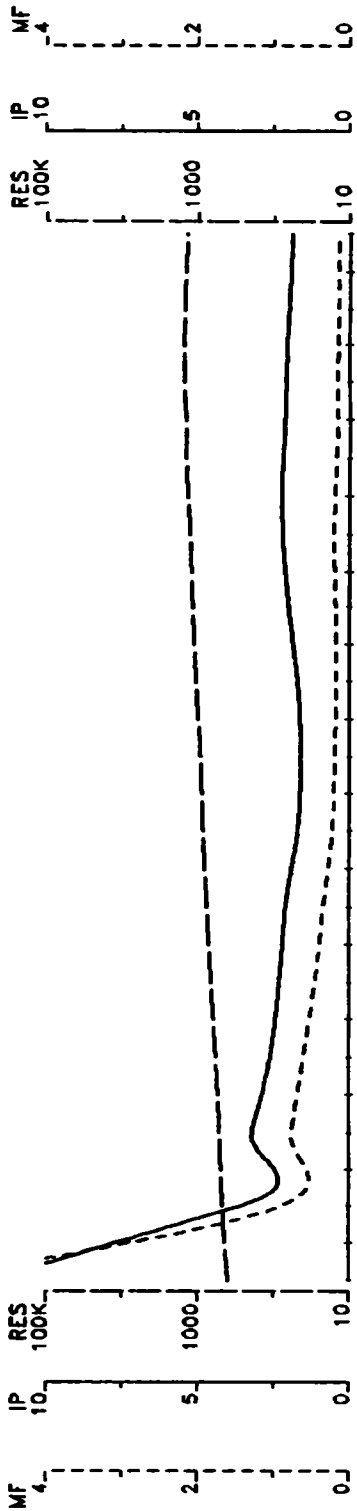
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Pike River Project
Michaud - Barnet Townships

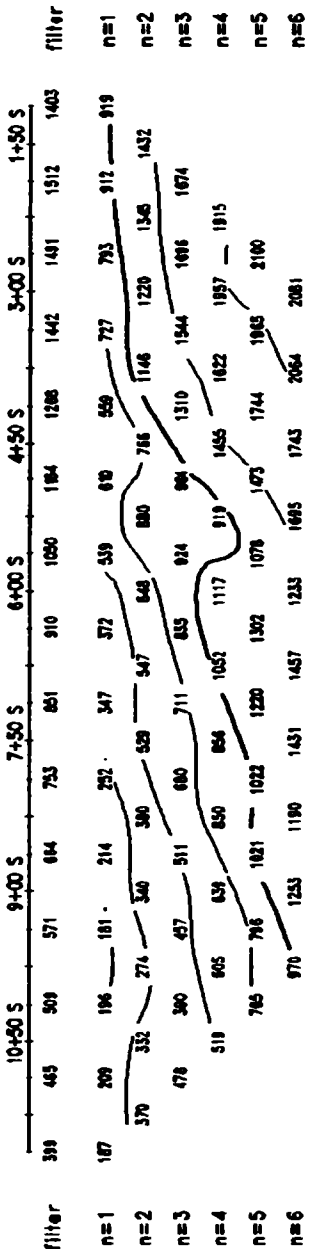
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Interpretation by: P. Lortie, P. Eng.
Scale 1 : 7500

VAL D'OR GEOPHYSICS LTD

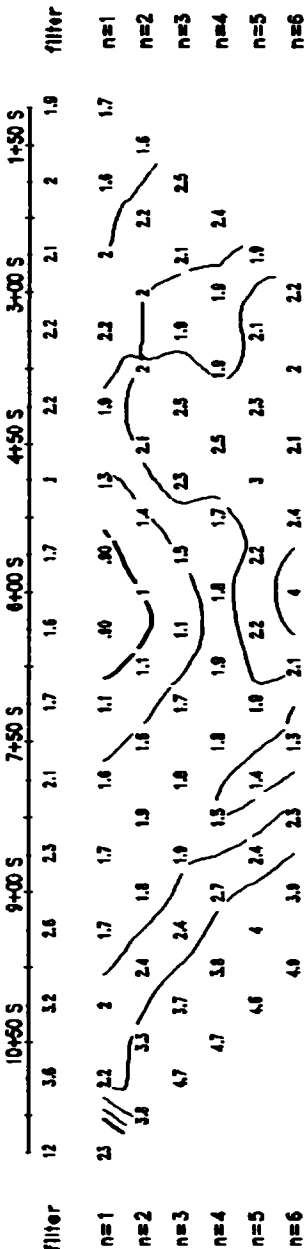
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RESISTIVITY (Ohm * m)



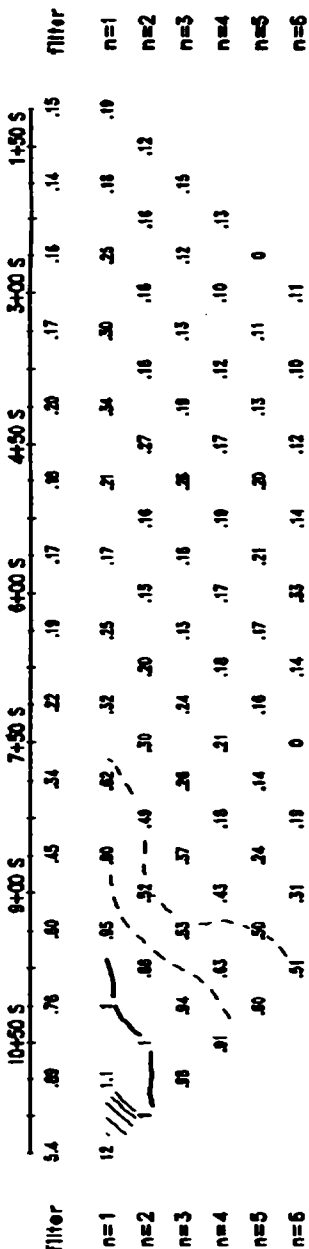
CHARGEABILITY (mV/V)



INTERPRETATION

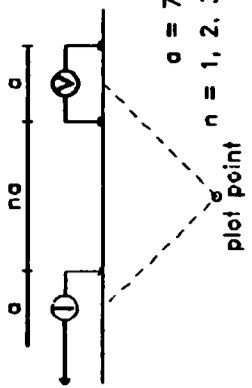


METAL FACTOR (Ip/res * 100)



Line 60+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity: ---
 Polarization: - - -
 Metal Factor:

Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6
 Time cycle: 2 sec.
 Operator: Luc Blodeau

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature, Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

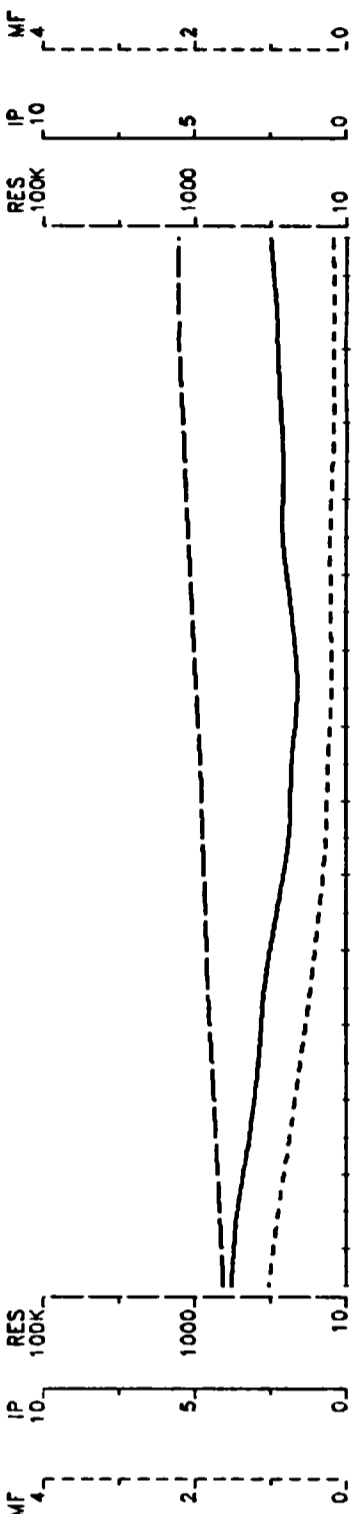
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Pike River Project
 Michaud - Barnet Townships

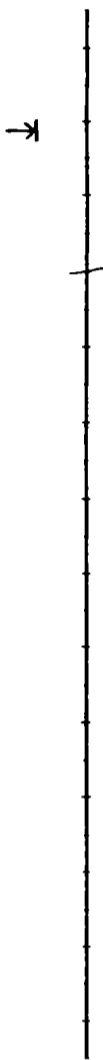
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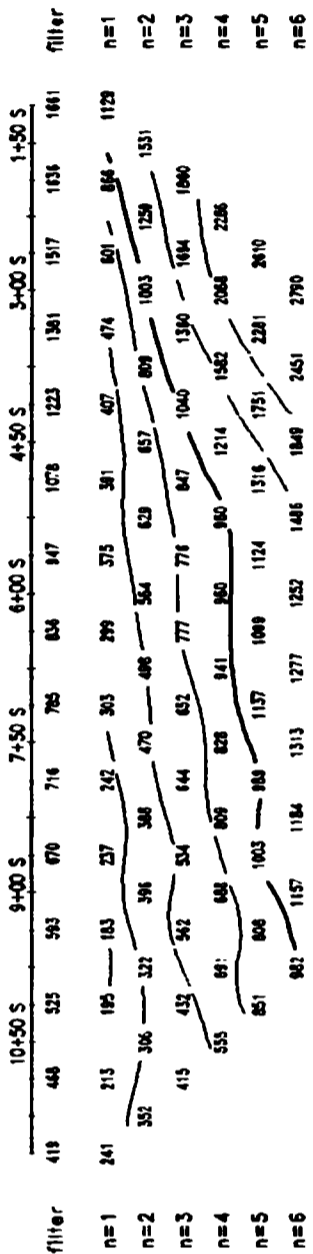
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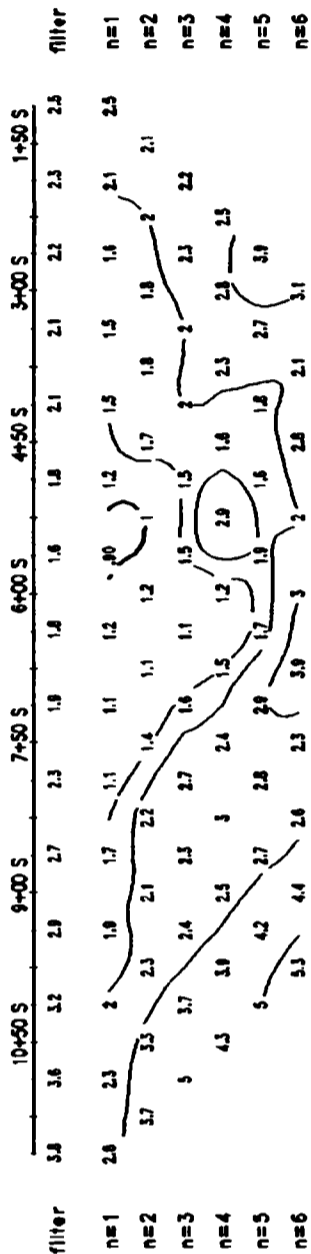
TOPOGRAPHY



RESISTIVITY (Ohm * m)



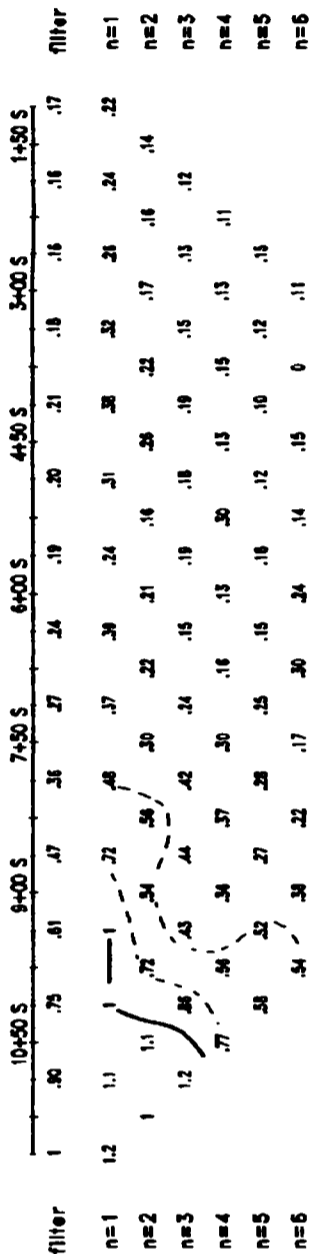
CHARGEABILITY (mv/V)



INTERPRETATION

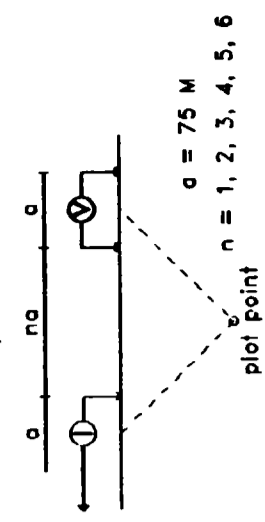


METAL FACTOR (lp/res * 100)



Line 62+00 E

Pole-Dipole Array



Filtered Profiles

Filter

- Resistivity -----
- Polarization -----
- Metal Factor -----

Logarithmic Contours
1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Luc Bilodeau

INTERPRETATION

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Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

Pike River Project
Michaud - Barnet Townships

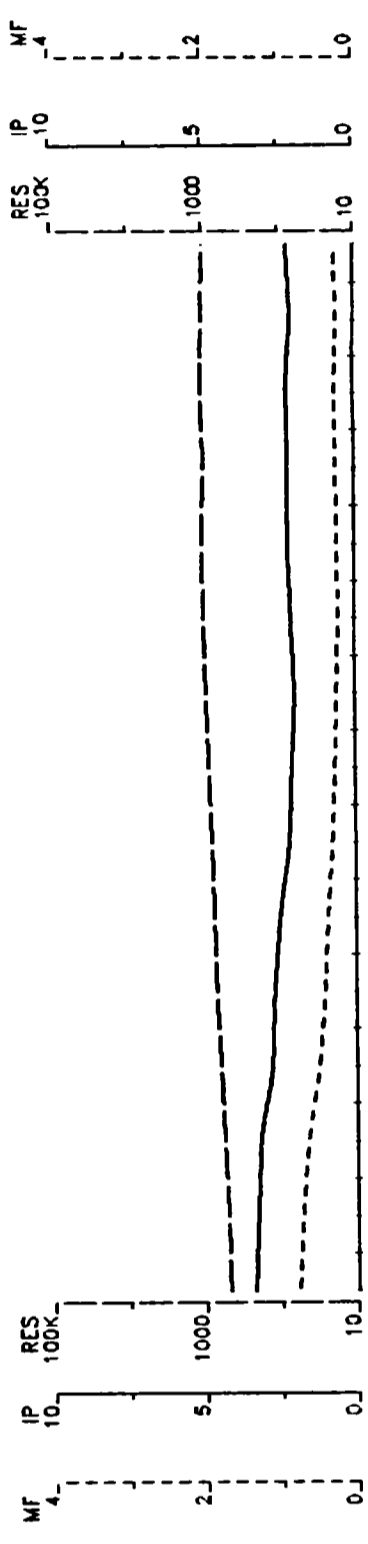
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Interpretation by: P. Lortie, P. Eng.

Scale 1 : 7500

VAL D'OR GEOPHYSICS LTD

94-17175



TOPOGRAPHY



RESISTIVITY (Ohm * m)

Filter	10+50 S	9+00 S	7+50 S	6+00 S	4+50 S	3+00 S	1+50 S
filter	487	516	526	558	577	595	626
n=1	505	239	219	264	287	288	302
n=2	389	375	381	453	438	416	484
n=3	518	485	614	606	584	607	794
n=4	822	738	751	751	791	838	1029
n=5	937	864	891	976	1173	1376	1773
n=6	1088	1025	1121	1403	1420	1548	1828

CHARGEABILITY (mV/V)

Filter	10+50 S	9+00 S	7+50 S	6+00 S	4+50 S	3+00 S	1+50 S
filter	3.4	3.2	2.7	2.2	2.1	2.1	2.2
n=1	2.7	2.2	1.4	1.2	1.3	1.3	1.8
n=2	3.3	2.4	1.8	1.7	1.5	1.3	1.8
n=3	4	3.5	2.8	2.2	2.2	2.2	2.1
n=4	3.9	3.5	3.8	2.9	2.4	2.5	2.1
n=5	4.5	5.3	3.8	2.8	3.2	2.5	2.8
n=6	4.8	2.8	4.1	2.5	3.2	2.8	2.4

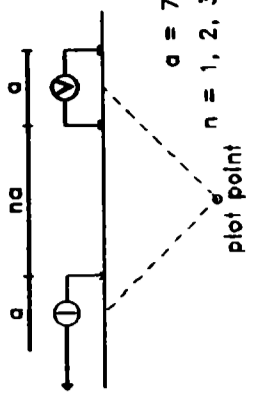
INTERPRETATION

METAL FACTOR (Ip/res * 100)

Filter	10+50 S	9+00 S	7+50 S	6+00 S	4+50 S	3+00 S	1+50 S
filter	.78	.75	.65	.50	.42	.37	.31
n=1	.37	.30	.27	.34	.34	.43	.36
n=2	.40	.30	.17	.39	.43	.41	.31
n=3	.77	.75	.48	.36	.41	.30	.19
n=4	.43	.44	.39	.36	.30	.24	.19
n=5	.48	.50	.40	.28	.37	.21	.18
n=6	.43	.28	.37	.21	.23	.19	.17

Line 64+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity ---
Polarization - - -
Metal Factor - - - - -

Filter
* * * * *
* * * * *
* * * * *

Logarithmic Contours
1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Gérard Couture

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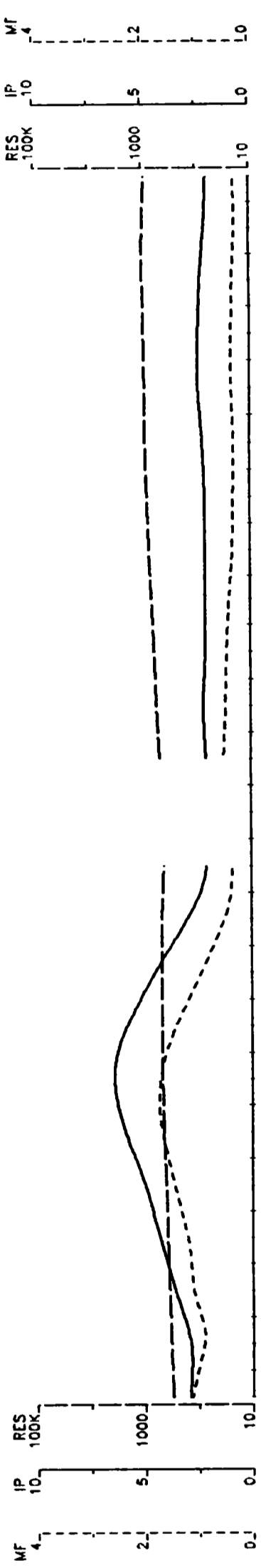
Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

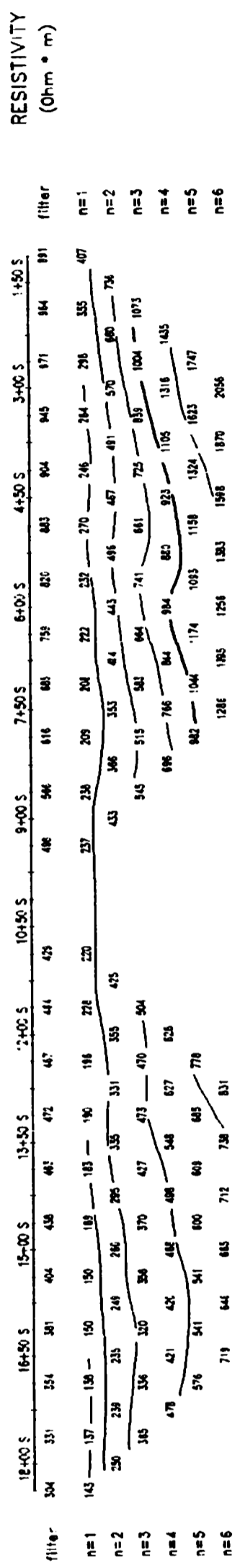
Pike River Project
Michaud - Barnet Townships

Date: 94/11/13
Interpretation by: P. Larrie, P. Eng.
Scale 1 : 7500

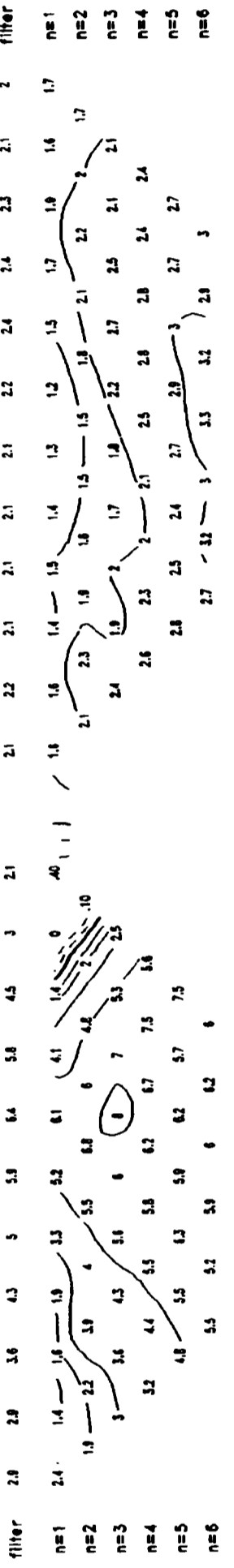
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TOPOGRAPHY

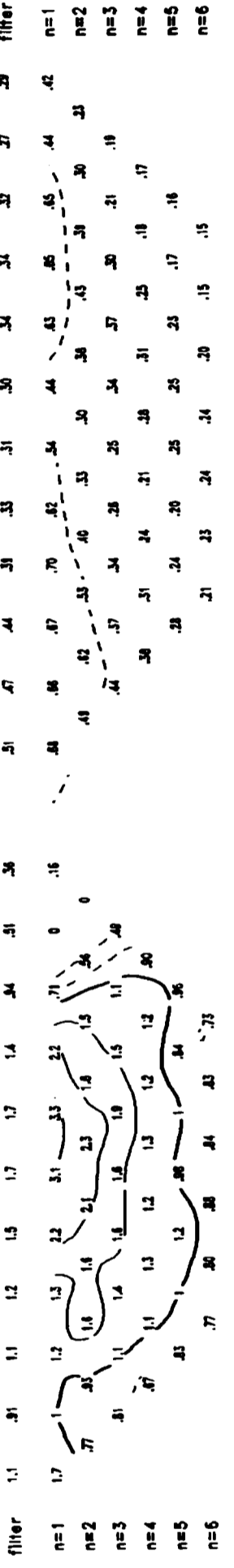


CHARGEABILITY



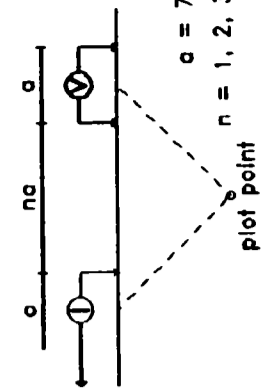
INTERPRETATION

METAL FACTOR



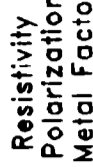
Line 66+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity
 Polarization
 Metal Factor



Filter



Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6

Time cycle: 2 sec.

Operator: Gérard Couture

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature, Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

Pike River Project

Michaud - Barnet Townships

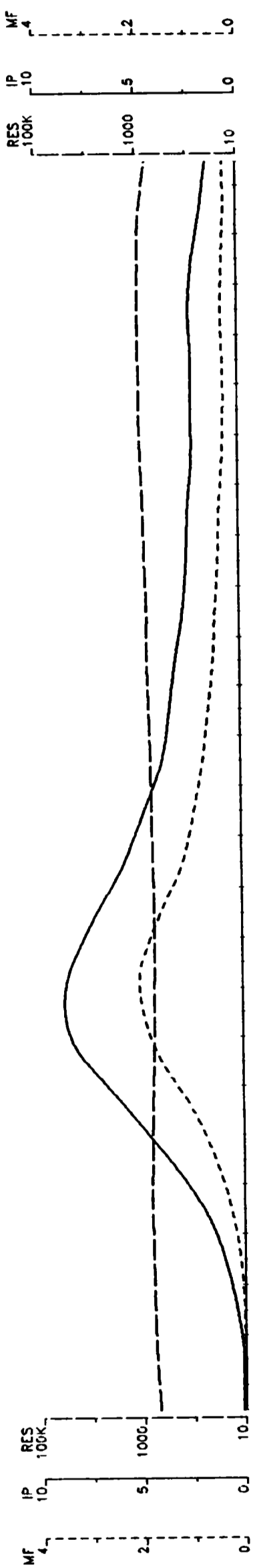
Date: 94/11/13

Interpretation by: P. Lortie, P. Eng.

Scale 1 : 7500

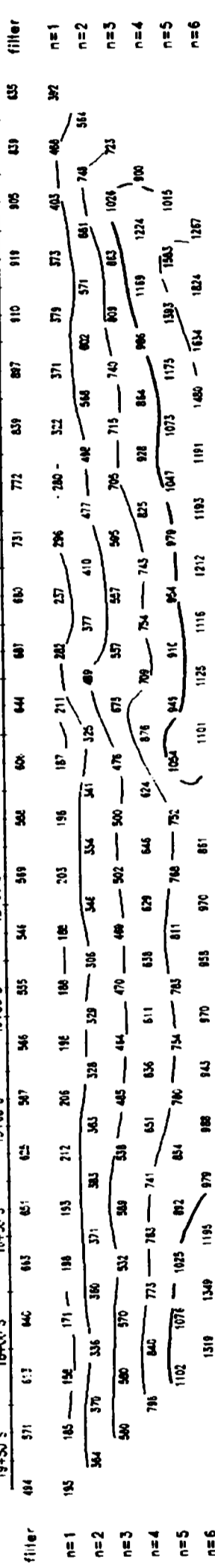
VAL D'OR GEOPHYSICS LTD

94-1175

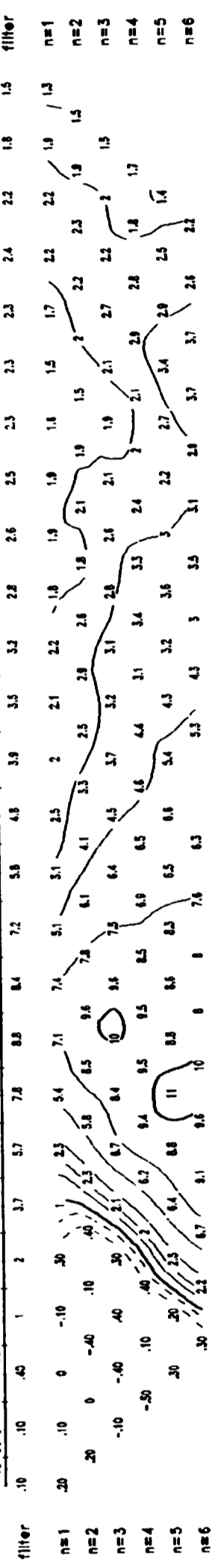


TOPOGRAPHY

RESISTIVITY (Ohm * m)

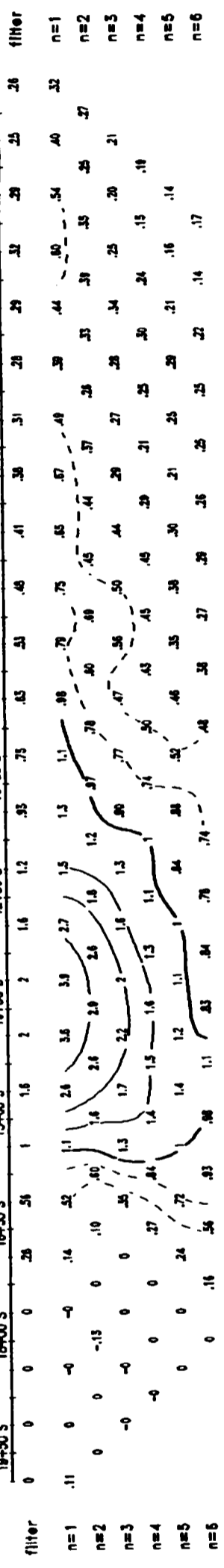


CHARGEABILITY (mV/V)



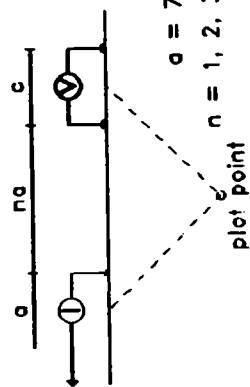
INTERPRETATION

METAL FACTOR (p/res * 100)



Line 6800 E

Pole-Dipole Array



Filtered Profiles

Resistivity
Polarization
Metal Factor

Filter
*
**

Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Gérard Couture

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature, bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

Pike River Project

Michaud - Barnet Townships

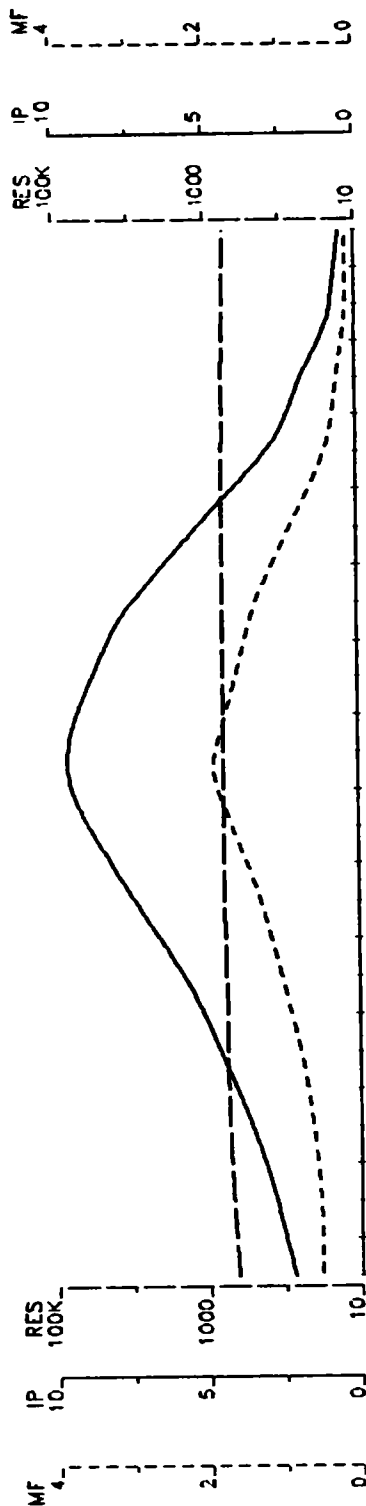
Date: 94/11/13

Interpretation by: P. Lortie, P. Eng.

Scale 1 : 7500

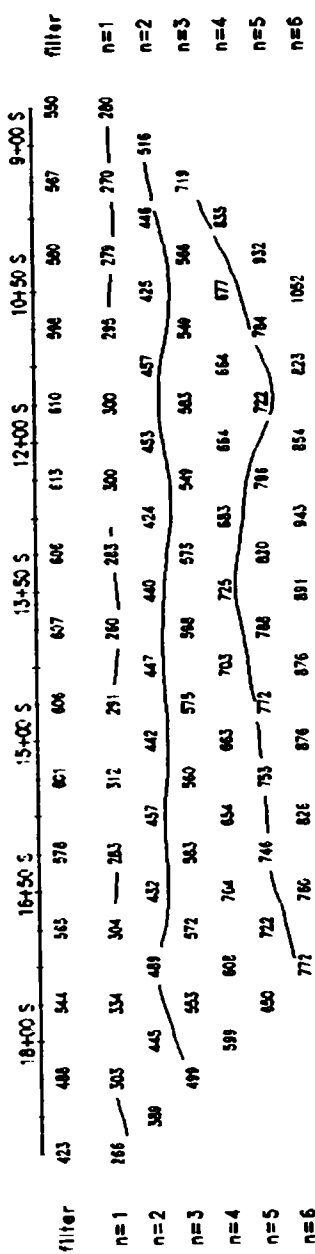
VAL D'OR GEOPHYSICS LTD

94-1115

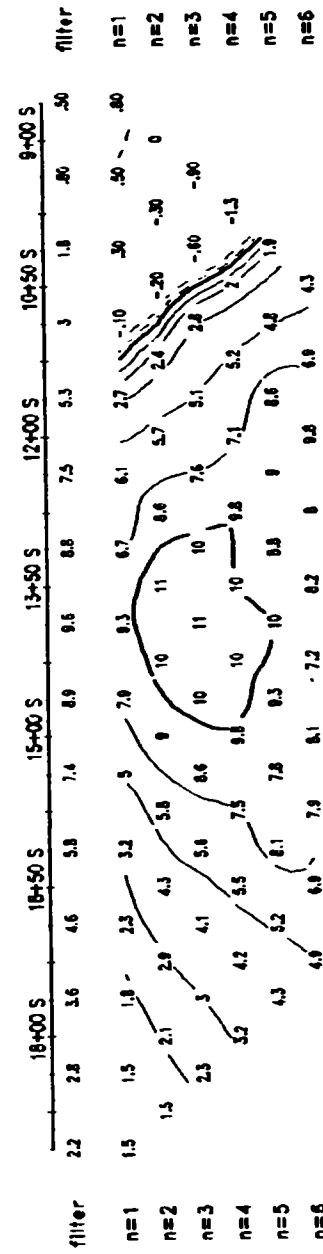


TOPOGRAPHY

RESISTIVITY
(Ohm * m)

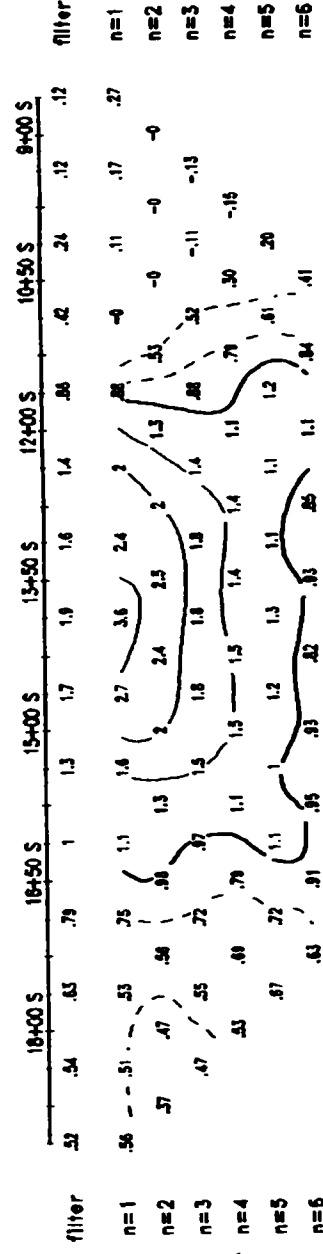


CHARGEABILITY
(mV/V)



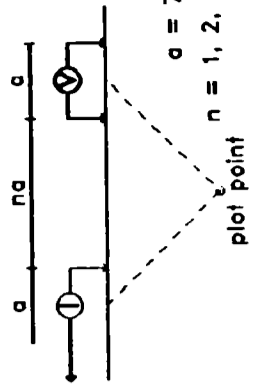
INTERPRETATION

METAL FACTOR
(Ip/res * 100)



Line 7000 E

Pole-Dipole Array



Filtered Profiles

Resistivity
 Polarization
 Metal Factor

Filter
 *
 **

Logarithmic Contours
 1, 1.5, 2, 3, 5, 7.5, 10...

Instrument: PHOENIX IPT1, BRGM IP-6
 Time cycle: 2 sec.
 Operator: Gérard Couture

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature. Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

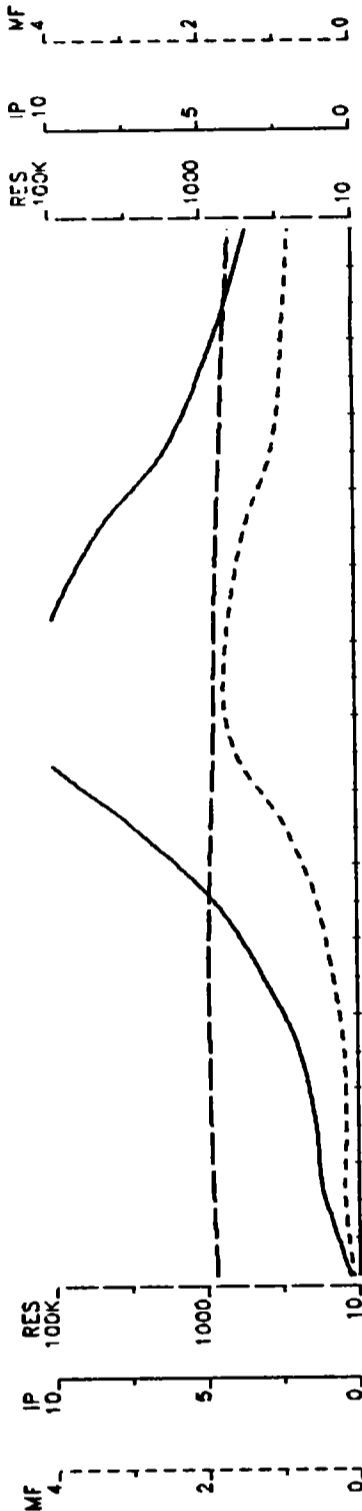
AMERICAN BARRICK RESOURCES CORP.

Pike River Project
 Michaud - Barnet Townships

Date: 94/11/13
 Interpretation by: P. Lortie, P. Eng.
 Scale 1 : 7500

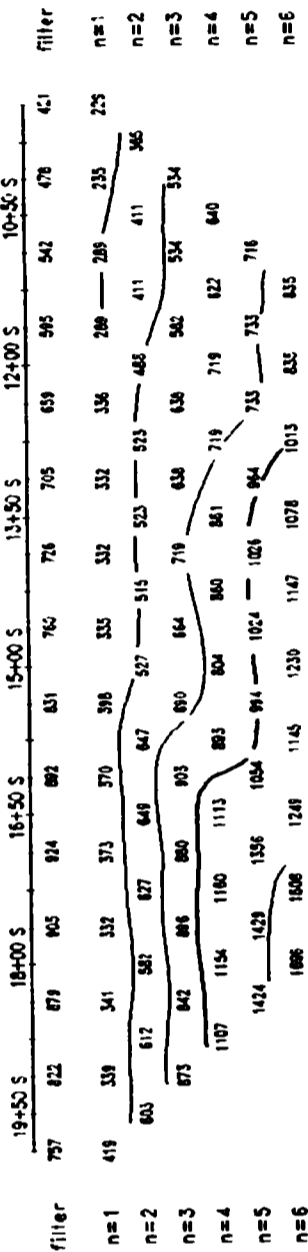
VAL D'OR GEOPHYSICS LTD

94-1115

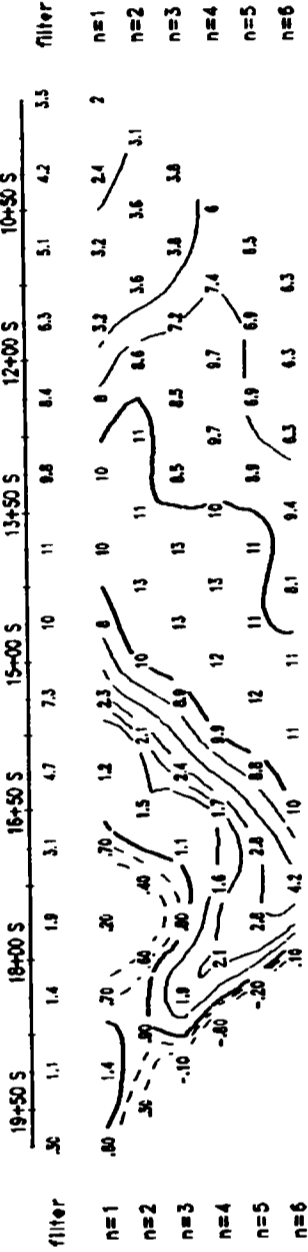


TOPOGRAPHY

RESISTIVITY
 (Ohm * m)

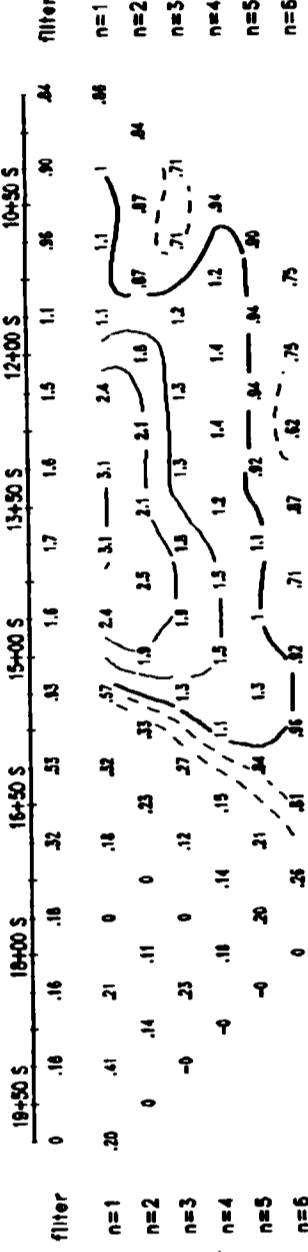


CHARGEABILITY
 (mV/V)



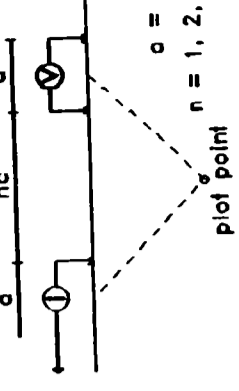
INTERPRETATION

METAL FACTOR
 (Ip/res * 100)



Line 76+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity
Polarization
Metal Factor

Filter
*
**

Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Luc Blidaeu

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature, Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

Pike River Project
Michaud - Barnet Townships

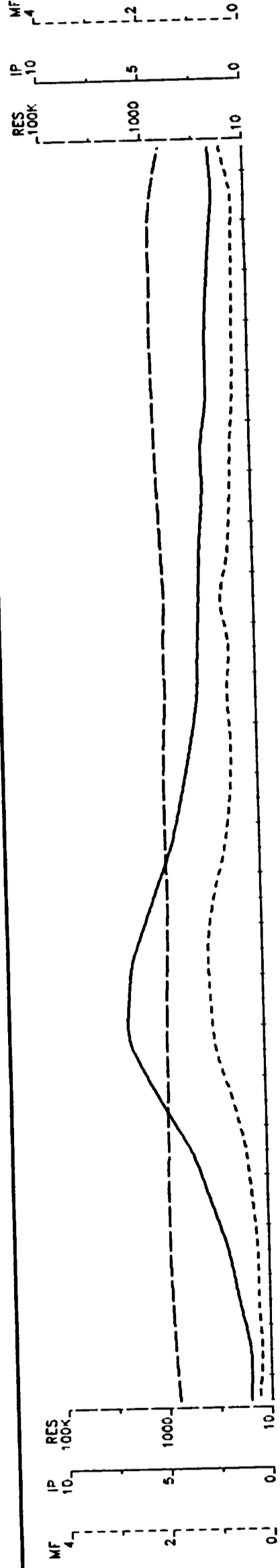
Date: 9/4/11/01

Interpretation by: P. Lortie, P. Eng.

Scale 1 : 7500

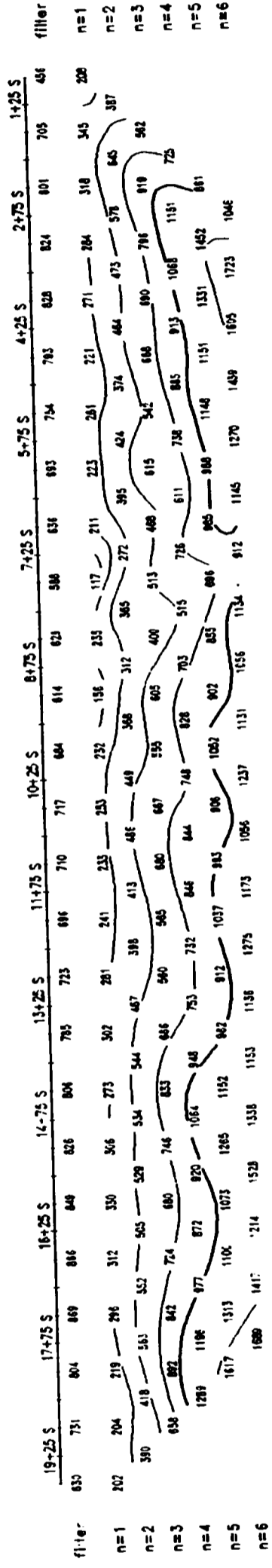
VAL D'OR GEOPHYSICS LTD

94-1115

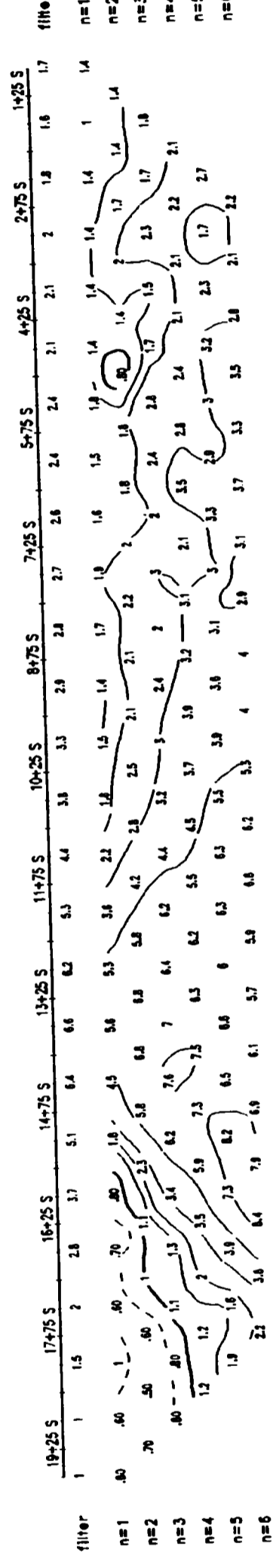


TOPOGRAPHY

RESISTIVITY
(Ohm * m)

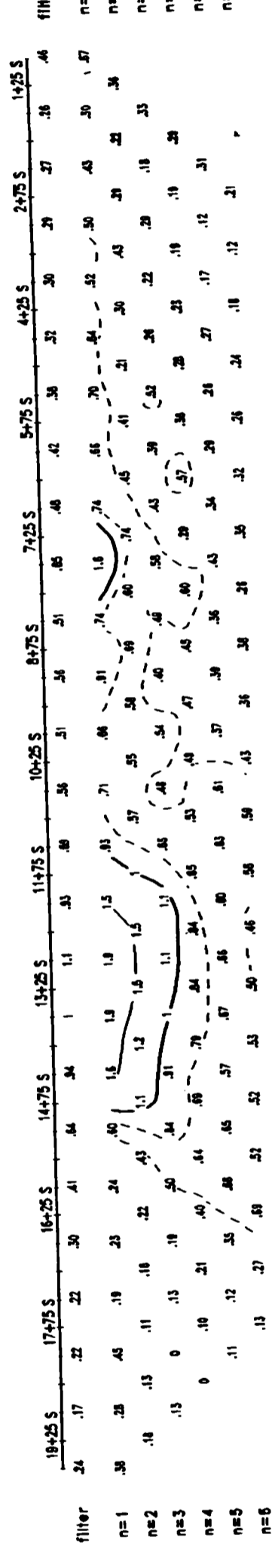


CHARGEABILITY
(mV/V)



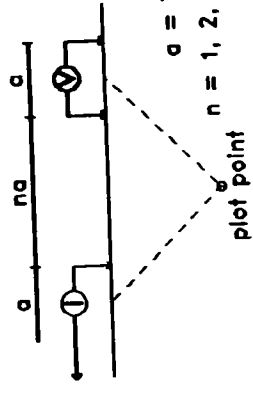
INTERPRETATION

METAL FACTOR
(Ip/res * 100)



Line 78+00 E

Pole-Dipole Array



Filtered Profiles

Resistivity
Polarization
Metal Factor

Filter
*
**

Logarithmic Contours

1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: PHOENIX IPT1, BRGM IP-6
Time cycle: 2 sec.
Operator: Gérard Couture

INTERPRETATION

- Increase in polarization associated to a relative decrease in apparent resistivity.
- Increase in polarization with little or no associated decrease in apparent resistivity.
- Weak or poorly defined polarization anomaly, no resistivity signature.
- ▼ Low resistivity feature. Bedrock valley or thick overburden. Structural causes?

Induced Polarization Survey

AMERICAN BARRICK RESOURCES CORP.

Pike River Project
Michaud - Barnet Townships

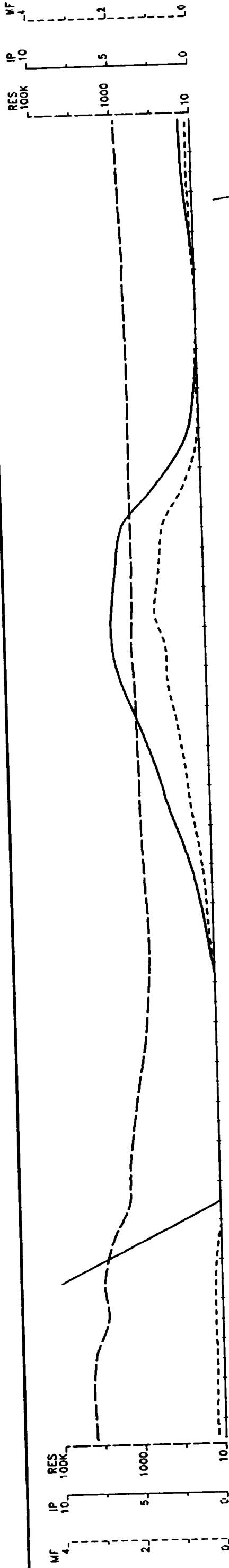
Date: 94/11/13

Interpretation by: P. Lortie, P. Eng.

Scale 1 : 7500

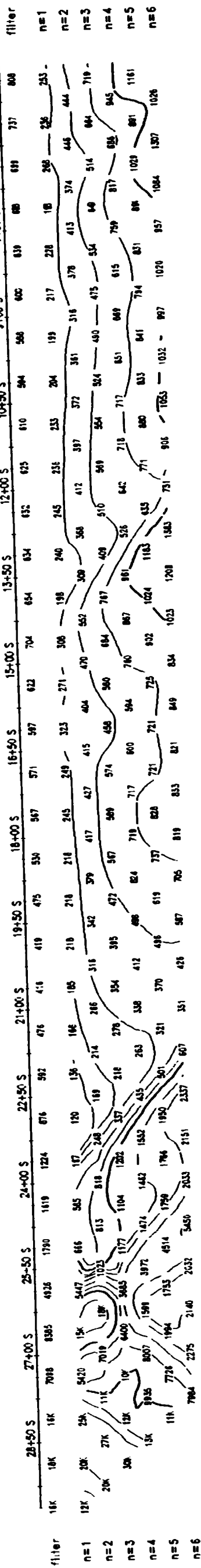
VAL D'OR GEOPHYSICS LTD

94-1115

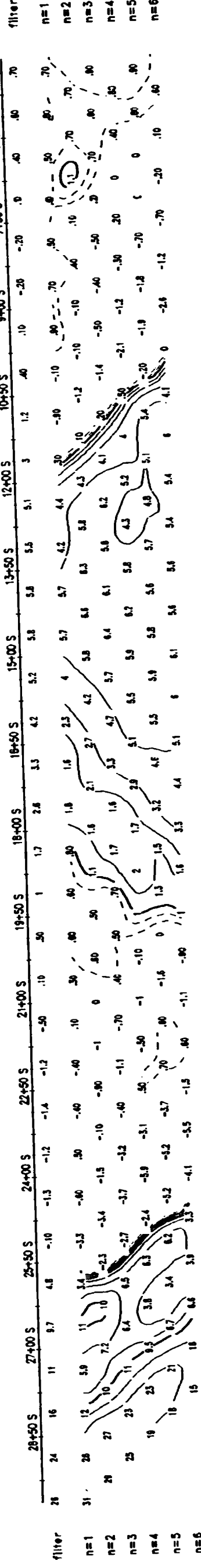


TOPOGRAPHY

RESISTIVITY
(Ohm * m)

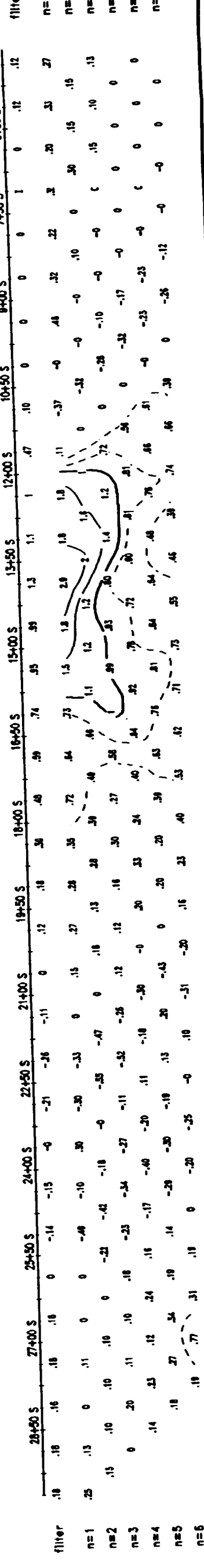


CHARGEABILITY
(mV/V)



INTERPRETATION

METAL FACTOR
(ip/res * 100)





GAD

Report of Work Conducted After Recording Claim
Mining Act

Transaction Number
DOCUMENT No.
W 9580-00012

Res. Deal - Kirkland Lake

2.15812

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 870-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requ Recorder.
 - A separate copy of this form must be completed
 - Technical reports and maps must accompany thi
 - A sketch, showing the claims the work is assigne



42A08NE0016 2.15812 MICHAUD

900

Recorded Holder(s) American Barrick Resources Corporation LAC MINERALS LTD		Client No. 155133
Address 2 Chemin Bousquet, Route 395, Preissac, QC, JOY 2E0		Telephone No. 819-759-3681
Mining Division Larder Lake	Township/Area Michaud/Barnet/Cook/Guibord	M or G Plan No. M372/G3595/M339
Dates Work Performed From: June 13, 1994		To: November 13, 1994

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Line cutting/surveying, IP Survey
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

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Total Assessment Work Claimed on the Attached Statement of Costs \$ 155 326

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Andrew Tims	43 Rowan St. Kirkland Lake, Ontario <i>P2N 2N7</i>
Val D'OR Geophysics	50 boul. Lamaque, Val D'OR, QC. J9P2H6

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: *Jan 11/95* Recorded Holder or Agent (Signature): *Andrew Tims*

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: Andrew Tims, 43 Rowan St. Kirkland Lake, Ontario

Telephone No. *819-759-3681* Date *Jan 5/94* Certified By (Signature): *Andrew Tims*

For Office Use Only

ACTING Exploration Manager

Total Value Cr. Recorded \$1,55326.	Date Recorded <i>Jan 11/95</i>	Mining Recorder <i>Larry Stolt</i>	Received Stamp
	Deemed Approval Date <i>Jan 11/95</i>	Date Approved <i>Jan 2 1995</i>	
	Date Notice for Amendments Sent		

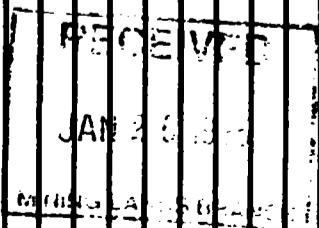
Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
	1199576 ✓	2	1455	800	655 -	
	714069 / .	1	1200	450	750	
	714070 / .	1	1200	450	750	
	714071 / .	1	1200	450	750	
	714072 / .	1	1200	450	750	
	714073 / .	1	1200	450	750	
	714074 / .	1	1200	450	750	
	714075 / .	1	1200	450	750	
	714076 ✓	1	1200	450	750	
	714077 / .	1	1200	450	750	
	714113 / .	1	1200	1720		
	714114 / .	1	1200	1720		
	714115 / .	1	1200	1720		
	714116 / .	1	1200	1720		
	714117 / .	1	1195	1720		
	714118 / .	1	1195	1720		
	714119 / .	1	1195	1720		
	714120 / .	1	1155	1720		
	714121 ✓	1	1155	1720		
	714122 / .	1	1155	1720		
	714123 / .	1	1155	1720		
	714124 / .	1	1155	1720		
	714125 / .	1	1155	1720		
	714126 / .	1	1155	1720		
	714127 / .	1	1155	1720		
	714128 / .	1	1155	1720		
	714129 / .	1	1155	1720		
	897887 / .	1	1155	460	705	
	897888 / .	1	1155	460	705	
	897889 / .	1	1155	460	705	
	897890 / .	1	1155	460	705	
	897891 / .	1	1155	460	705	

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Pg 1 of 8

X Credits are to be cutback.
 If required begin with Southern most claims
 32 * continued on pg 2

Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
2	667892 ✓	1	1155	450	705	
	667893 ✓	1	1155	450	705	
	667894 ✓	1	1155	450	705	
1	667895 ✓	1	1155	450	705	
	667896 ✓	1	1155	450	705	
8	667897 ✓	1	1155	450	705	
	667898 ✓	1	1155	450	705	
5	667899 ✓	1	1155	450	705	
	667900 ✓	1	1155	450	705	
1	667901 ✓	1	1155	450	705	
	667902 ✓	1	1155	450	705	
2	667903 ✓	1	1155	450	705	
	667904 ✓	1	1155	450	705	
	667905 ✓	1	1155	450	705	
	667906 ✓	1	1155	450	705	
	667907 ✓	1	1155	450	705	
	667908 ✓	1	1155	446	709	
	667909 ✓	1	1155	425	730	
	667910 ✓	1	1155	425	730	
	667911 ✓	1	1155	425	730	
	667912 ✓	1	1155	425	730	
	667913 ✓	1	1155	425	730	
	667914 ✓	1	1155	425	730	
	667915 ✓	1	1155	425	730	
	667916 ✓	1	1155	425	730	
	667917 ✓	1	1155	425	730	
	667918 ✓	1	1155	425	730	
	667919 ✓	1	1155	425	730	
	667920 ✓	1	1155	425	730	
	667921 ✓	1	1155	425	730	
	667922 ✓	1	1155	425	730	
	667923 ✓	1	1155	425	730	
	667924 ✓	1	1155	425	730	



 JAN 26 1995

X Credits are to be outback.
 If required begin with Southern most claim

33 * continued on pg 3

Pg 2 of 2

Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this claim \$	Reserve: Work to be Claimed at a Future \$
2	689762 / .	1	1200	425	775	
	689763 / .	1	1200	425	775	
	689764 / .	1	1200	425	775	
	689765 / .	1	1200	425	775	
	689766 / .	1	1200	425	775	
	689767 / .	1	1200	425	775	
	689768 / .	1	1200	425	775	
	689769 / .	1	1200	425	775	
	689770 / M	1		425		
	689771 / .	1		425		
	689772 / .	1		425		
	689773 / .	1		425		
	689774 / .	1		425		
	689775 / .	1		425		
	689776 / .	1		425		
	689777 / .	1		425		
	689778 / .	1		425		
	689779 / .	1		425		
	689780 / .	1		425		
	714076 / .	1	1200	425	775	
	714079 / .	1	1200	425	775	
	714080 / .	1	1200	425	775	
	714081 / .	1	1200	425	775	
	714082 / .	1	1200	425	775	
	714083 / .	1	1200	425	775	
	714084 / .	1	1200	425	775	
	714085 / .	1	1200	425	775	
	714086 / .	1	1200	425	775	
	714087 / .	1	1200	1300		
	714088 / .	1	1200	1720		
	714089 / .	1	1200	1720		
	714090 / .	1	1200	400	800	

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Pg 1 of 8

X Credits are to be cutback.
 If required begin with Southern most claims

33 X Continued on p. 5

Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
	714091 / .	1	1200	480	760	
	714092 / .	1	1200	425	776	
	714093 / .	1	1200	425	776	
	714094 / .	1	1200	425	776	
	714095 / .	1	1200	425	776	
	714096 / .	1	1200	425	776	
	714097 / .	1	1200	425	776	
	714098 / .	1	1200	1720		
	714099 / .	1	1200	1720		
	714100 / .	1	1200	1720		
	714101 / .	1	1200	1720		
	714102 / .	1	1200	1720		
	714103 / .	1	1200	1720		
	714104 / .	1	1200	1720		
	714105 / .	1	1200	1720		
	714106 / .	1	1200	1720		
	714107 / .	1	1200	1720		
	714108 / .	1	1200	1720		
	714109 / .	1	1200	1720		
	714110 / .	1	1200	1720		
	714111 / .	1	1200	1720		
	714112 / .	1	1200	1720		
	1199698 /	6		2400		
	667947 /	1		460		
	667948 /	1		460		
	667949 /	1		460		
	667950 /	1		460		
	667951 / .	1		460		
	667952 /	1		460		
	667953 /	1		460		
	667954 /	1		460		
	667955 /	1		460		

X Credits are to be outback
 If required begin with Southern most claims

39 * Continued on pg. 6

pg 5 of 8

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X Credits are to be outback
If required begin with Southern most claims

33 X continued on pg. 7

Work Report Number For Applying Reserves	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
	667966 /	1		460		
	667967 /	1		460		
	667968 /	1		460		
	667969 /	1		460		
	667990 /	1		460		
	667961 /	1		460		
	667962 /	1		460		
	667963 /	1		460		
	667964 /	1		460		
	667965 /	1		460		
	667966 /	1		460		
	667967 /	1		460		
	667968 /	1		460		
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	668018 /	1		460		
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	667987 /	1		460		
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	667989 /	1		460		
	667990 /	1		460		
	668011 /	1		460		
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	668017 /	1		460		
	668018 /	1		460		

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pg 6 of 8

Pg 7 of 8 ✓

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Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
	008019 /	1		450		
	008020 /	1		450		
	008025 /	1		450		
	008026 /	1		450		
	008027 /	1		450		
	008028 /	1		450		
	008033 /	1		450		
	008034 /	1		450		
	008035 /	1		450		
	008036 /	1		450		
	008039 /	1		450		
	008041 /	1		450		
	008042 /	1		450		
	008043 /	1		450		
	008044 /	1		450		
	008055 /	1	X	450		
	008056 /	1	X	450		
	008057 /	1		450		
	008058 /	1		450		
	008059 /	1		450		
	008060 /	1		450		
	008061 /	1		450		
	008062 /	1		450		
	008063 /	1		450		
	008064 /	1		450		
	008065 /	1		450		
	008066 /	1		450		
	008067 /	1		450		
	008068 /	1		450		
	008069 /	1		450		
	008070 /	1		450		
	008071 /	1		450		
	008072 /	1		450		
	008073 /	1		450		

2. 158 12

X Credits are to be outback.
If required begin with Southern most claims
33 * continued on 13 p.

Work Report Number For Applying Reserve	Claim Number	Number of Claim Units	Value of Assessment Work Done \$	Value Applied to this claim \$	Value Assigned From this Claim \$	Reserve: Work to be Claimed at a Future \$
	666074 /	1		450		
	666068 /	1		450		
	666069 /	1		450		
	666060 /	1		450		
	666091 /	1		450		
	666748 /	1		450		
	666749 /	1		450		
	666780 /	1		450		
	666781 /	1		450		
	666782 /	1		450		
	666783 /	1		450		
	666784 /	1		450		
	666785 /	1		450		
	666786 /	1		450		
	666787 /	1		450		
	666789 /	1		450		
	666790 /	1		450		
	666791 /	1		450		
TOTAL		289	166328	166328	71474	
			Work Done	Total Value Applied	Total Transferred	Total Reserved

18

Pg 8 of 8

RECEIVED
JAN 2 1995

X Credits are to be cutback.
If required begin with Southern most claims



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

DOCUMENT NO. W 9580.00012

2.15812

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	6 915	6 915
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type IP Survey	71 389	
	Line cutting	67 629	
	Airphotos	3 250	142 268
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			142 268

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Helicopter	11 368	
	Truck	1 690	
			13 058
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			13 058
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			13 058
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			155 926

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Geologist I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature [Signature] Date Jan 5th / 95

VALUE OF ASSESSMENT WORK PERFORMED ON MINING CLAIMS

**FILE NUMBER 2.15812
TRANSACTION NO. W9580.00012
APRIL 14, 1995**

CLAIM NUMBER	VALUE OF ASSESSMENT WORK DONE ON THIS CLAIM
668045	\$1,482.00
668040	\$1,482.00
668037	\$1,482.00
668038	\$1,482.00
668039	\$1,482.00
668046	\$1,482.00
667887	\$1,482.00
667894	\$1,482.00
668031	\$1,482.00
668030	\$1,482.00
667888	\$1,482.00
667889	\$1,482.00
667893	\$1,482.00
667892	\$1,482.00
667896	\$1,482.00
667895	\$1,482.00
667897	\$1,482.00
667898	\$1,482.00
667899	\$1,482.00
667900	\$1,482.00
667901	\$1,482.00
667910	\$1,482.00
667909	\$1,482.00
667908	\$1,482.00
667911	\$1,482.00
667912	\$1,482.00
667913	\$1,482.00
667926	\$1,482.00
667925	\$1,482.00
667924	\$1,482.00
714109	\$1,482.00
714108	\$1,482.00
714101	\$1,482.00
714100	\$1,482.00
714093	\$1,482.00
714092	\$1,482.00
714091	\$1,482.00
714090	\$1,482.00

1198576	\$2,964.00
714110	\$1,482.00
714107	\$1,482.00
714102	\$1,482.00
714103	\$1,482.00
714106	\$1,482.00
714111	\$1,482.00
714114	\$1,482.00
714115	\$1,482.00
714116	\$1,482.00
714113	\$1,482.00
714112	\$1,482.00
714105	\$1,482.00
714104	\$1,482.00
714119	\$1,482.00
714120	\$1,482.00
714118	\$1,482.00
714117	\$1,482.00
714081	\$1,482.00
714082	\$1,482.00
714083	\$1,482.00
714080	\$1,482.00
714124	\$1,482.00
714123	\$1,482.00
714122	\$1,482.00
714121	\$1,482.00
714128	\$1,482.00
714127	\$1,482.00
714126	\$1,482.00
714125	\$1,482.00
714079	\$1,482.00
714084	\$1,482.00
714087	\$1,482.00
714088	\$1,482.00
714129	\$1,482.00
714069	\$1,482.00
714070	\$1,482.00
714071	\$1,482.00
714078	\$1,481.00
714085	\$1,481.00
714086	\$1,481.00
714089	\$1,481.00
714074	\$1,481.00
714073	\$1,481.00
714072	\$1,481.00
714075	\$1,481.00
714076	\$1,481.00
714077	\$1,481.00

TOTAL **\$128,924.00**



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (705) 670-5853
Fax: (705) 670-5863

April 25, 1995

Our File: 2.15812
Transaction #: W9580.00012

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Mr. Spooner:

RE: Approval of Notice of Reduction issued for assessment work reported on mining claims 1198576 et al. in Michaud, Barnet, Cook & Guibord townships.

The assessment work credits as outlined in the Notice of Reduction dated February 28, 1995 have been approved as of April 14, 1995. The credits have been approved under Section 14 (Geophysical) of the Mining Act Regulations. Please redistribute the allowable assessment credits as requested by the recorded holder.

If you require additional assistance in this matter please contact Steven Beneteau at (705) 670-5858.

ORIGINAL SIGNED BY:

Ron C. Gashinski

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

SBB/jj
Enclosure:

cc Assessment Files Office
Sudury, Ontario

Resident Geologist
Kirkland Lake, Ontario

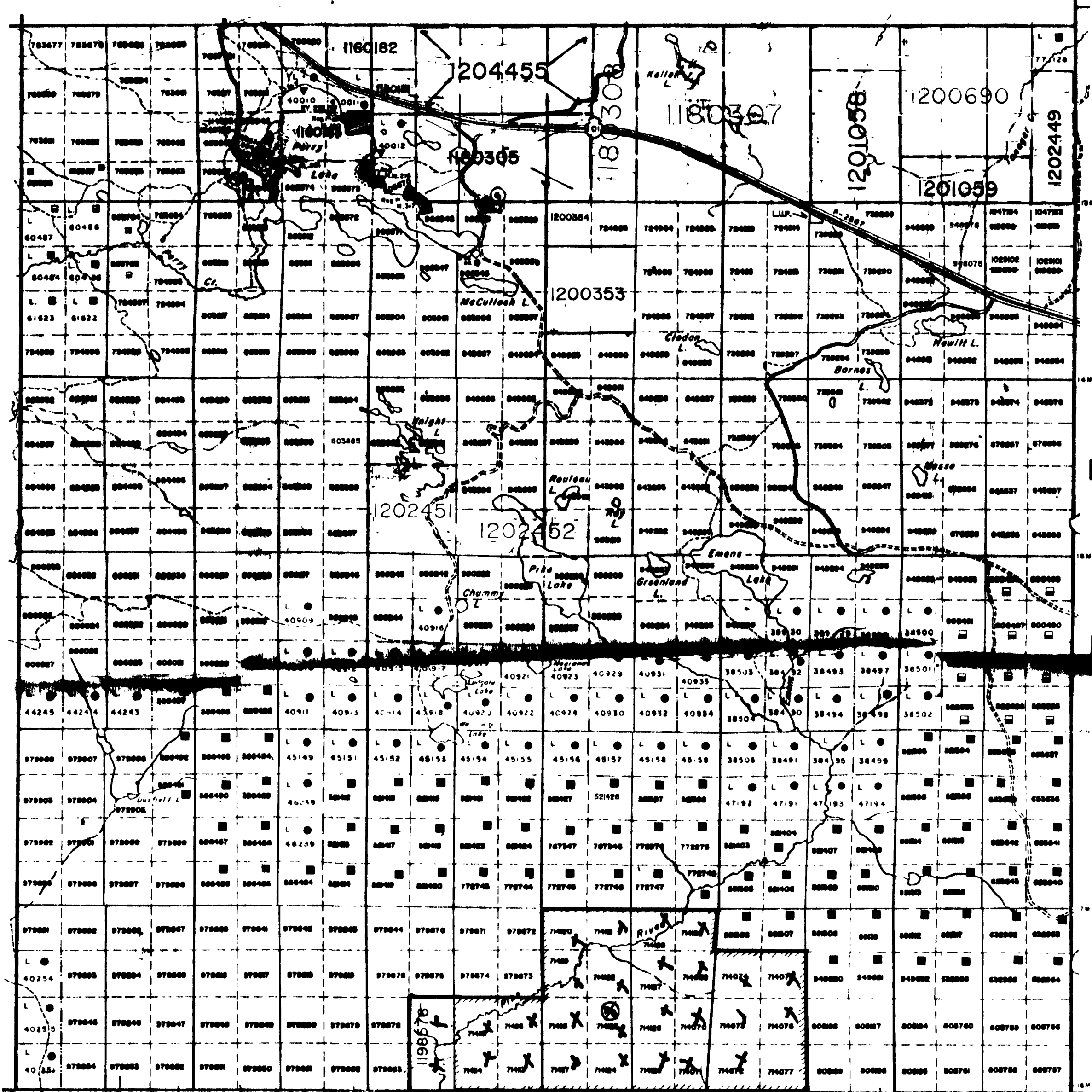
NOTES

400' surface rights reservation along the shores of all lakes and rivers.

SAND AND GRAVEL

- 1. M.T.A. CONVEY. PT. NO. 700
- 2. AREAS WITHDRAWN FROM STAKES
- 3. SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKES, SECTION 28 AND 30, W. 4/4, 24, 25, 1988

McCool Tp. M-365



Gulbord Tp. M-352

Garrison Tp. M-349

DATE OF ISSUE
JAN 24 1995
LARDER LAKE
MINING RECORDS OFFICE

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.

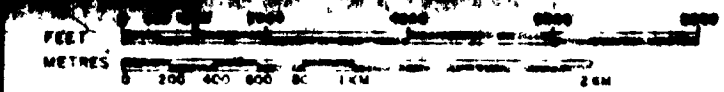
NOTICE OF FORESTRY ACTIVITY
THIS TOWNSHIP / AREA FALLS WITHIN THE WATAREAS MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE APPR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:
P.O. BOX 125
SWASTKA, ONT.
POK 1T0
705-642-3222

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP'S 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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 | ▼ |
| CROWN LAND SALE | CS |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | ⊙ |
| CANCELLED | ⊖ |
| SAND & GRAVEL | ⊗ |



ACRES HECTARES

2.15812

TOWNSHIP
MICHAUD
DISTRICT
COCHRANE
MINING DIVISION
LARDER LAKE

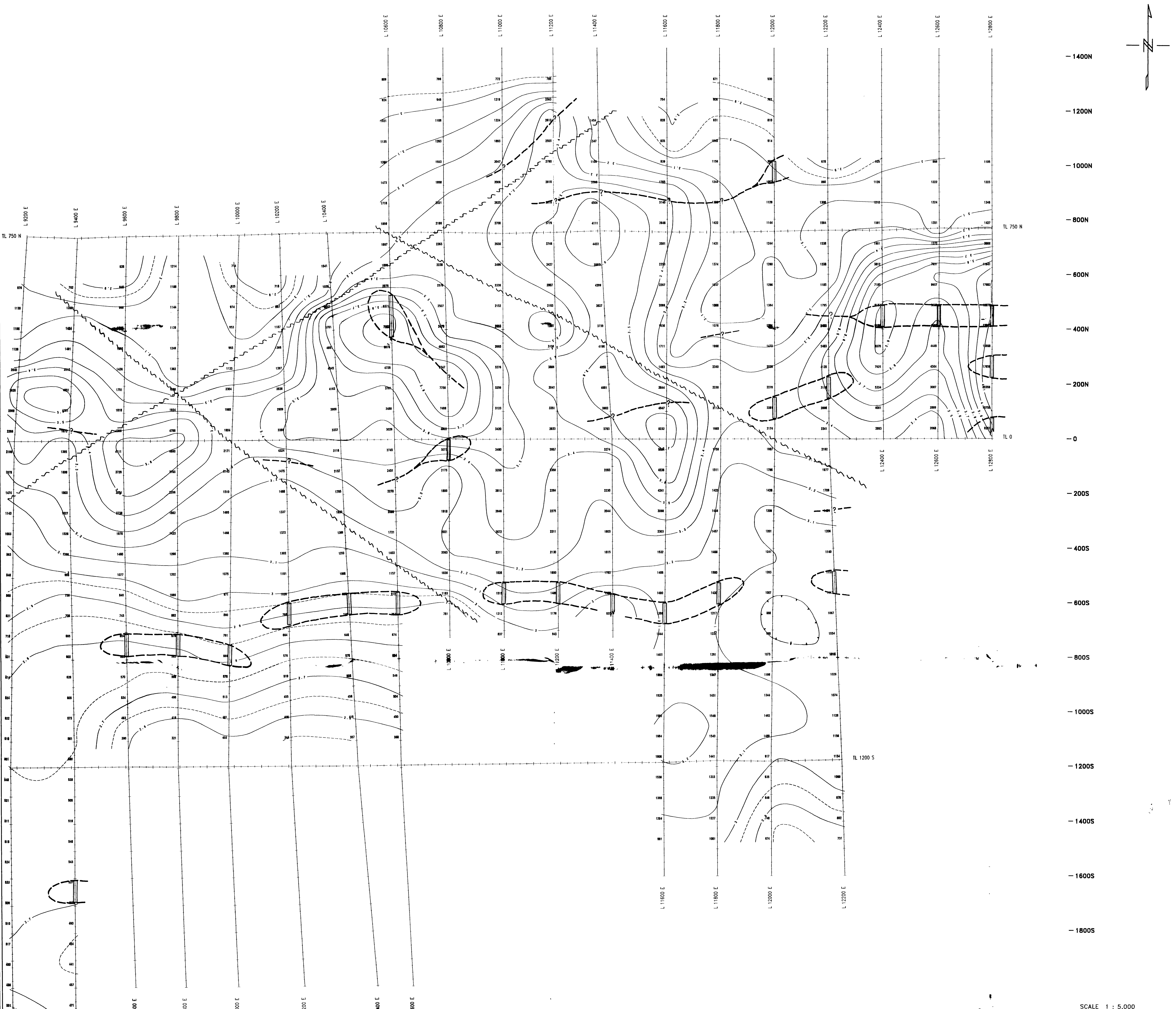
DATE RECEIVED FEB 3 1988
MINISTRY OF NORTHERN DEVELOPMENT AND MINES

Date: JUNE 10, 1988
Plan No: M-372

Barnet Tp. M-322
2.15812
(I.P.)

COPY OF THIS MYLAR ARCHIVED APR.13/92 ARCHIVED MAY 24, 1994





- 1400N
 - 1200N
 - 1000N
 - 800N
 - 600N
 - 400N
 - 200N
 - 0
 - 200S
 - 400S
 - 600S
 - 800S
 - 1000S
 - 1200S
 - 1400S
 - 1600S
 - 1800S

LEGEND

INTERPRETATION

- Unit of higher polarization associated with a relative decrease in the apparent resistivity.
- Well-connected, conductive metallic minerals. Stringer sulfides in a strongly sheared structure.
- Unit of higher polarization with little or no associated decrease of the apparent resistivity. Stringer or disseminated, poorly conductive metallic minerals. Massive magnetite. Micaceous minerals.
- Weak or poorly defined polarization anomaly with no apparent signature of resistivity. Thin, discontinuous veins of metallic minerals. Magnetite, clay or micaceous minerals.
- High resistivity feature. Bedrock ridge, thinner overburden, high resistivity unit.
- Low resistivity feature. Bedrock valley, thicker overburden, low resistivity unit.
- Possible tectonic or structural causes.

GENERAL

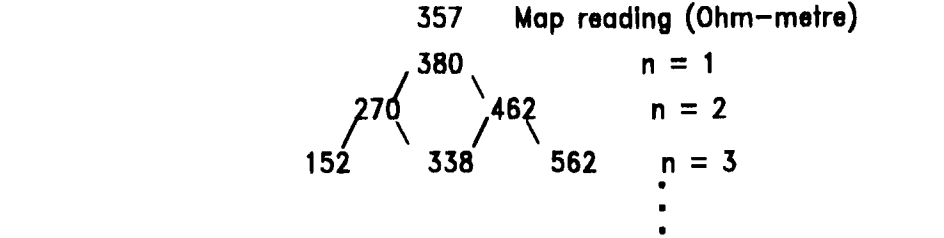
- Interpreted shear zone.
- Interpreted fault.

CONTOUR INTERVAL (Ohm-metre)

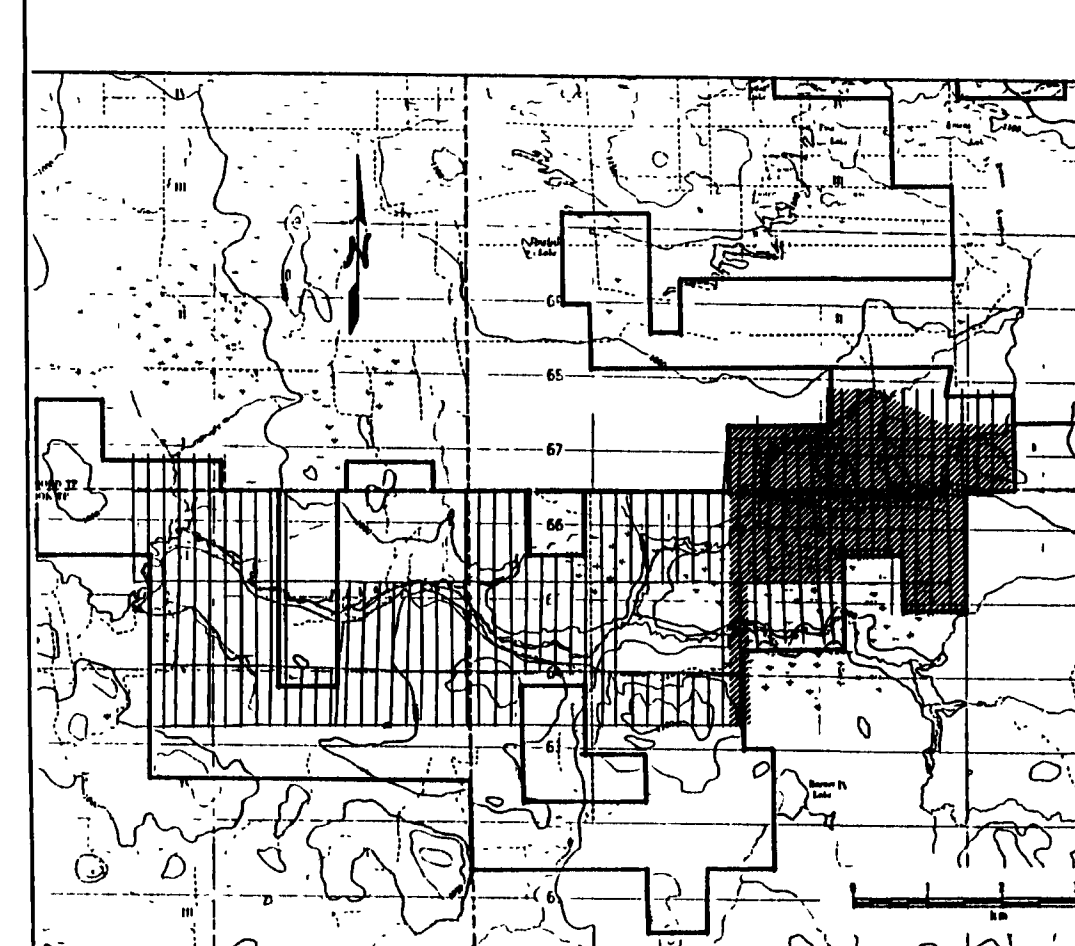
Logarithmic contours:

- 0.05 10, 11, 12, 15, 14, 1, 16, 18, 20, 22 ..
- 0.1 10, 12.5, 16, 20, 25, 32, 40 ..
- 0.5 10, 32, 100, 320, 1000 ..

Electrode array: Dipole-dipole
 $a = 25$ m. $n = 1, 2, 3, 4, 5, 6$
 Instruments: Phoenix IPT-1, BRGM IP-6
 Period: 2 sec
 Filter calculation:



SCALE 1 : 5,000
 0 100 200 300 400
 (meters)



2.158 12

AMERICAN BARRICK RESOURCE
PIKE RIVER PROJECT (EAST PART)

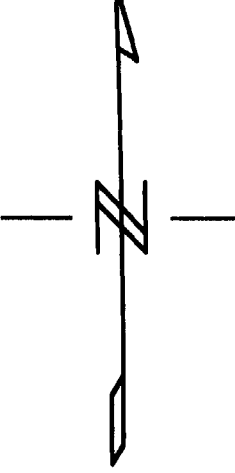
INDUCED POLARIZATION SURVEY
RESISTIVITY CONTOURS (Filter)

RECEIVED

JAN 26 1995 VAL D'OR GEOPHYSICS LTD

MINING LABORATORY
 Interpreted by: P. Lortie, P.Eng. Date: 11

Scale 1 : 5,000 Drawing no. 94-1115-



-1400N
-1200N
-1000N
-800N
-600N
-400N
-200N
-0
-200S
-400S
-600S
-800S
-1000S
-1200S
-1400S
-1600S
-1800S

LEGEND

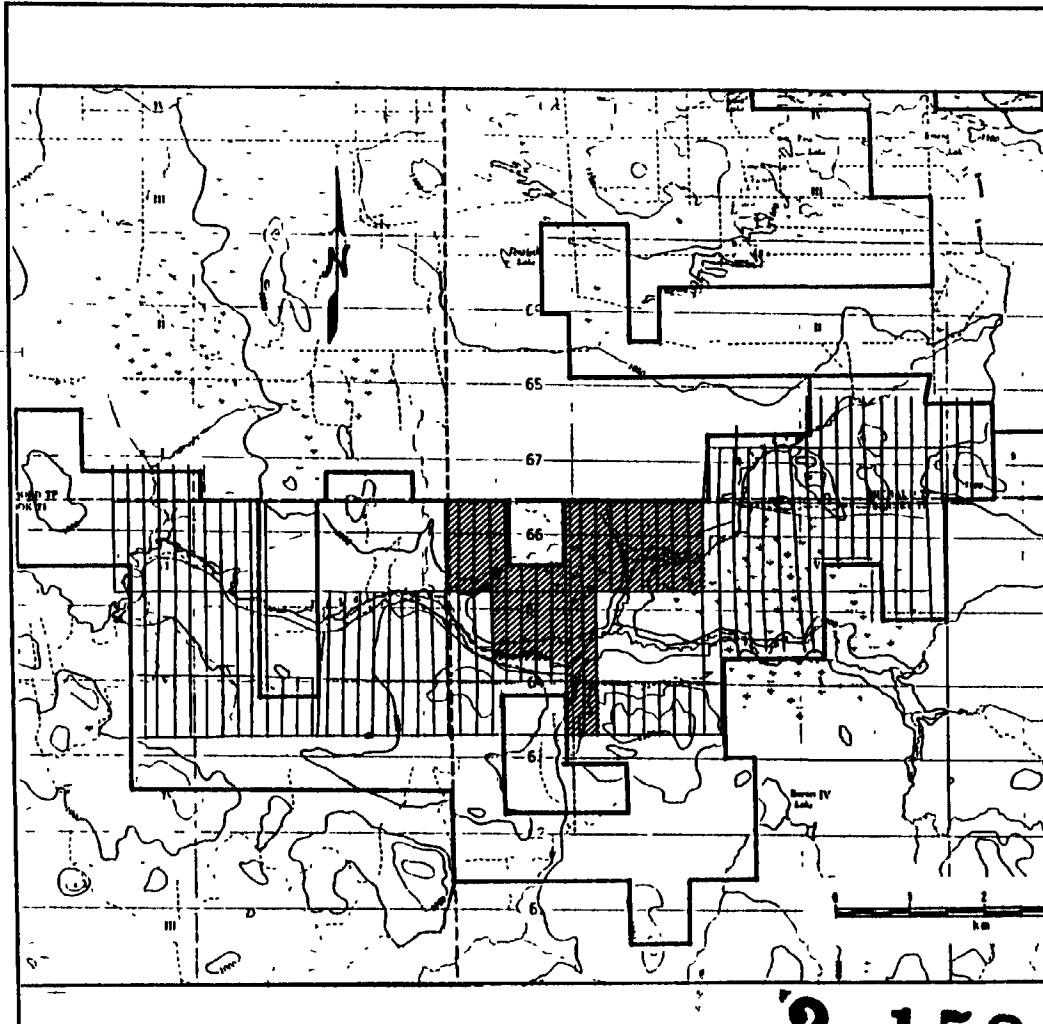
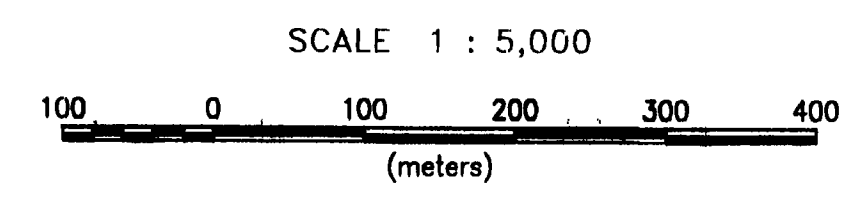
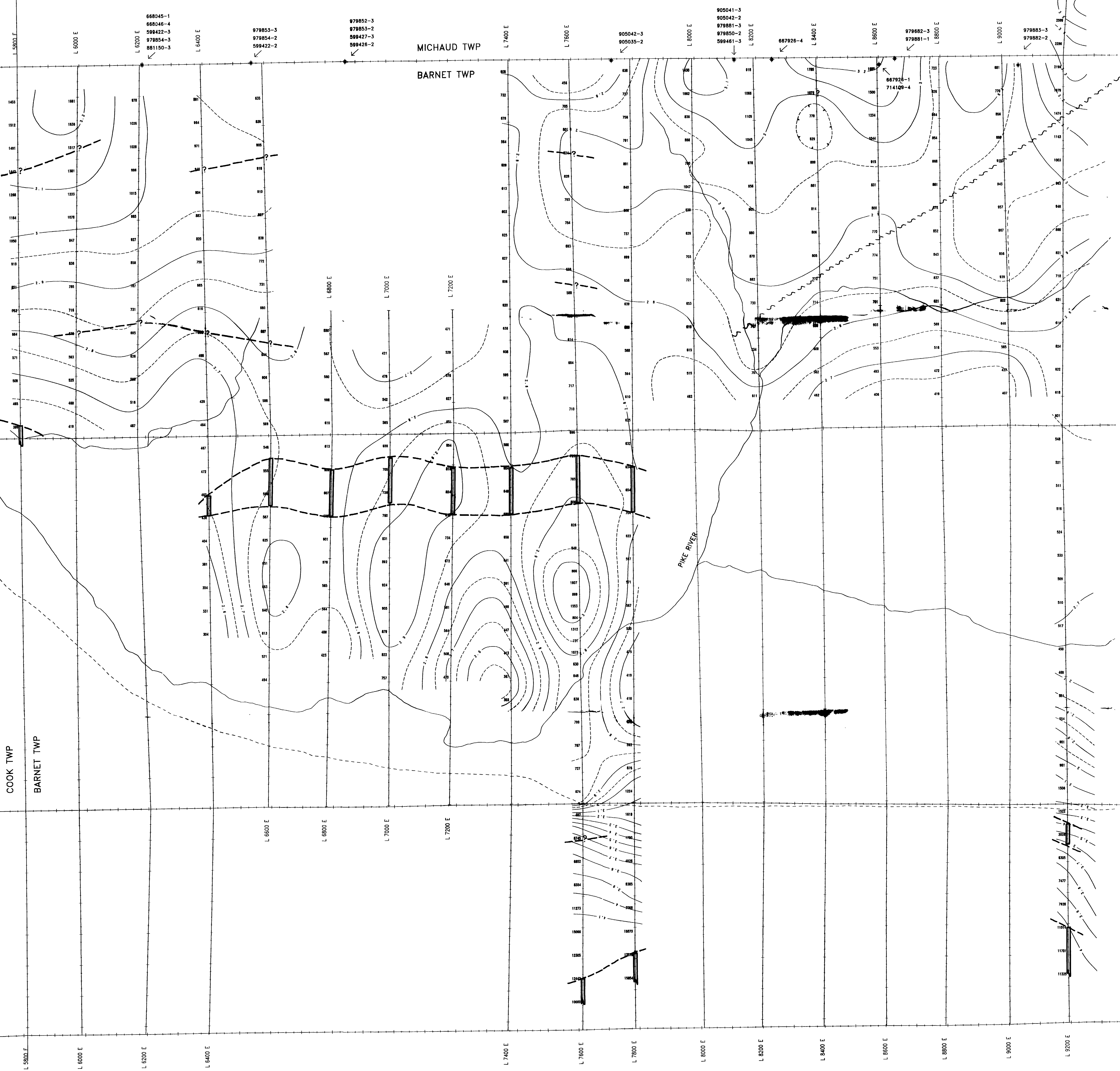
INTERPRETATION

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- Magnetite, clay or micaceous minerals.
- High resistivity feature. Bedrock ridge, thinner overburden, high resistivity unit.
- Low resistivity feature. Bedrock valley, thicker overburden, low resistivity unit.
- Possible tectonic or structural courses.

- Interpreted shear zone.
- Interpreted fault.

CONTOUR INTERVAL (Ohm-metre)

- Logarithmic contours:
 --- 0.05 10, 11, 2, 12, 5, 14, 1, 16, 18, 20, 22 ...
 - - - 0.1 10, 12, 5, 14, 20, 25, 32, 40 ...
 - - - 0.5 10, 32, 100, 320, 1000 ...
- Electrode array: Dipole-dipole
 $a = 25 \text{ m}$, $n = 1, 2, 3, 4, 5, 6$
- Instruments: Phoenix IPT-1, BRGM IP-6
 Period: 2 sec
 Filter calculation:
- | | | |
|-----|-------------------------|--|
| 357 | Map reading (Ohm-metre) | |
| 380 | $n = 1$ | |
| 452 | $n = 2$ | |
| 562 | $n = 3$ | |



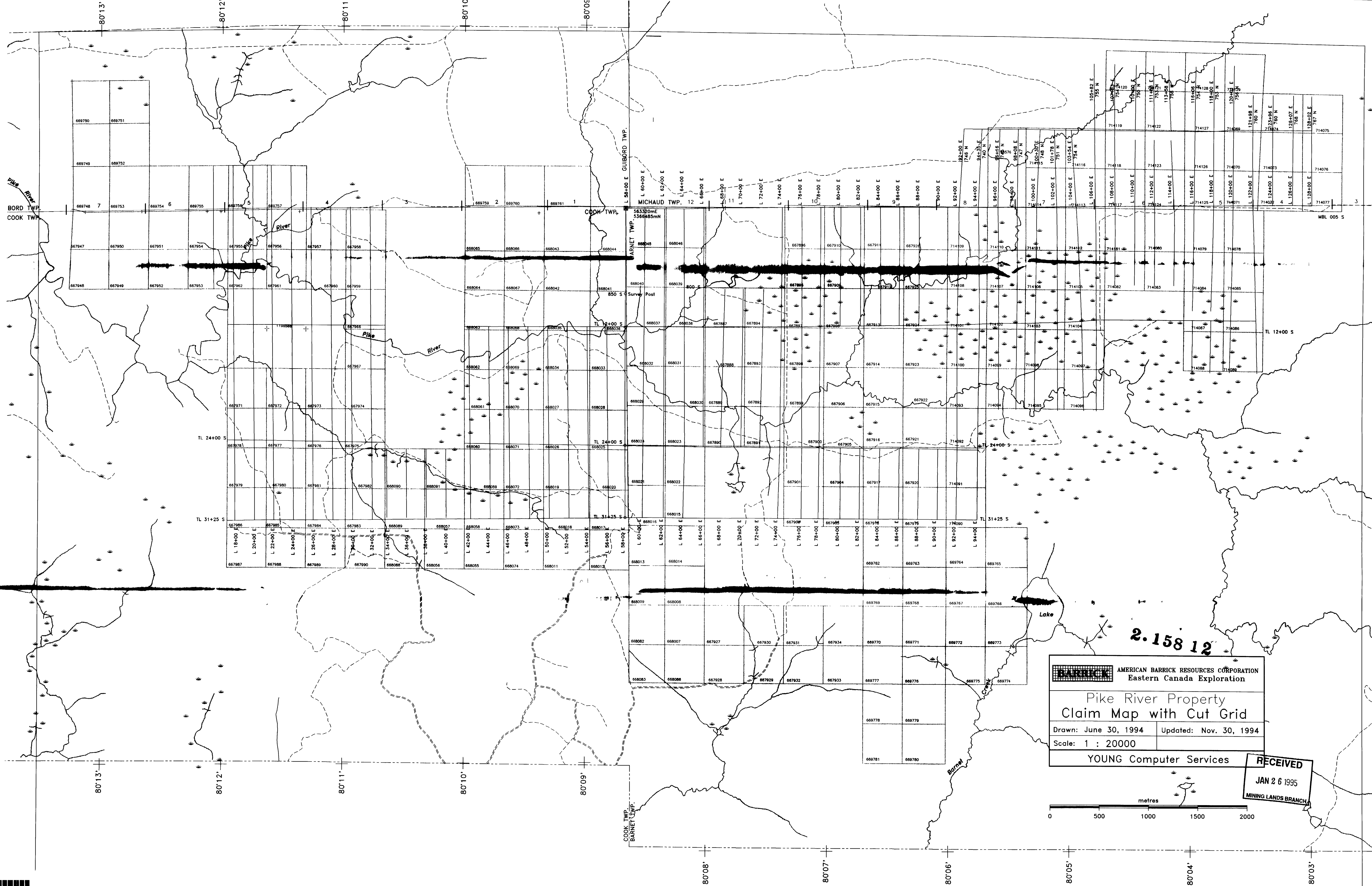
2.158

AMERICAN BARRICK RESOURCE
PIKE RIVER PROJECT (WEST PART)

INDUCED POLARIZATION SURVEY
RESISTIVITY CONTOURS (Filter)

RECEIVED
 JAN 26 1995
 VAL D'OR GEOPHYSICS LTD
 MINING LTD.

Interpreted by: P. Lortie, P.Eng. Date: 1
 Scale 1 : 5,000 Drawing no. 94-1115



2.158 12

AMERICAN BARRICK RESOURCES CORPORATION
 Eastern Canada Exploration

Pike River Property
 Claim Map with Cut Grid

Drawn: June 30, 1994 Updated: Nov. 30, 1994

Scale: 1 : 20000

YOUNG Computer Services

RECEIVED
 JAN 26 1995
 MINING LANDS BRANCH

