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BARRICK GOLD CORPORATION
(Eastern Canada Exploration)

HOLT McDERMOTT Project

WEST BLOCK

Report on Induced Polarization surveys

Rouyn-Noranda, Québec

December 13, 1996

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TABLE OF CONTENTS

Appended:

	Scale
Resistivity / I.P. pseudo-sections	1:5,000
Apparent resistivity contour map with I.P. anomalies superimposed	1:5,000
Polarization (I.P.) contour map with I.P. anomalies superimposed	1:5,000

Introduction

In July 1996, ground geophysical investigations, consisting namely of Induced Polarization (I.P.) surveys, were carried out the Holt-McDermott **(WEST Block)** project, for **Barrick Gold Corp.**

The purpose of these surveys was to provide additional geoscientific information about the underlying lithologies and to map with a better accuracy the distribution of disseminated and stringer sulfides in the bedrock, these sulfides being potentially of economic interest if they are found to carry significant concentrations of precious metals. Considering the close proximity of the WEST Block to the **Holt-McDermott** mine and the paucity of bedrock exposure as well as the incomplete I.P. survey coverage from previous work, the present I.P. surveys were also meant to complement the geophysical compilation of the project.

This report describes the work done, discusses the results obtained as well as the interpretation of the data. Recommendations for any future work are presented in the conclusion.

The I.P. survey was carried out by crews of Rémy Bélanger Geophysics, of Rouyn-Noranda, Québec.

Property description, location and access

The **WEST** Block is located in the west-central part of **Harker** township, in northeastern Ontario, approximately 42 km to the NNE of Kirkland Lake and 67 km northwest of Rouyn-Noranda (N.T.S. 32D).

The survey area is easily accessible by vehicle, as highway 101 passes just to the north, and the gravel road leading south toward **Esker Park** passes at about 1.6 km east of the eastern limit of the block. A number of secondary roads lead west from this gravel road, to the claim block. Please refer to Figure 1., showing a location map of the property at 1:250,000 scale.

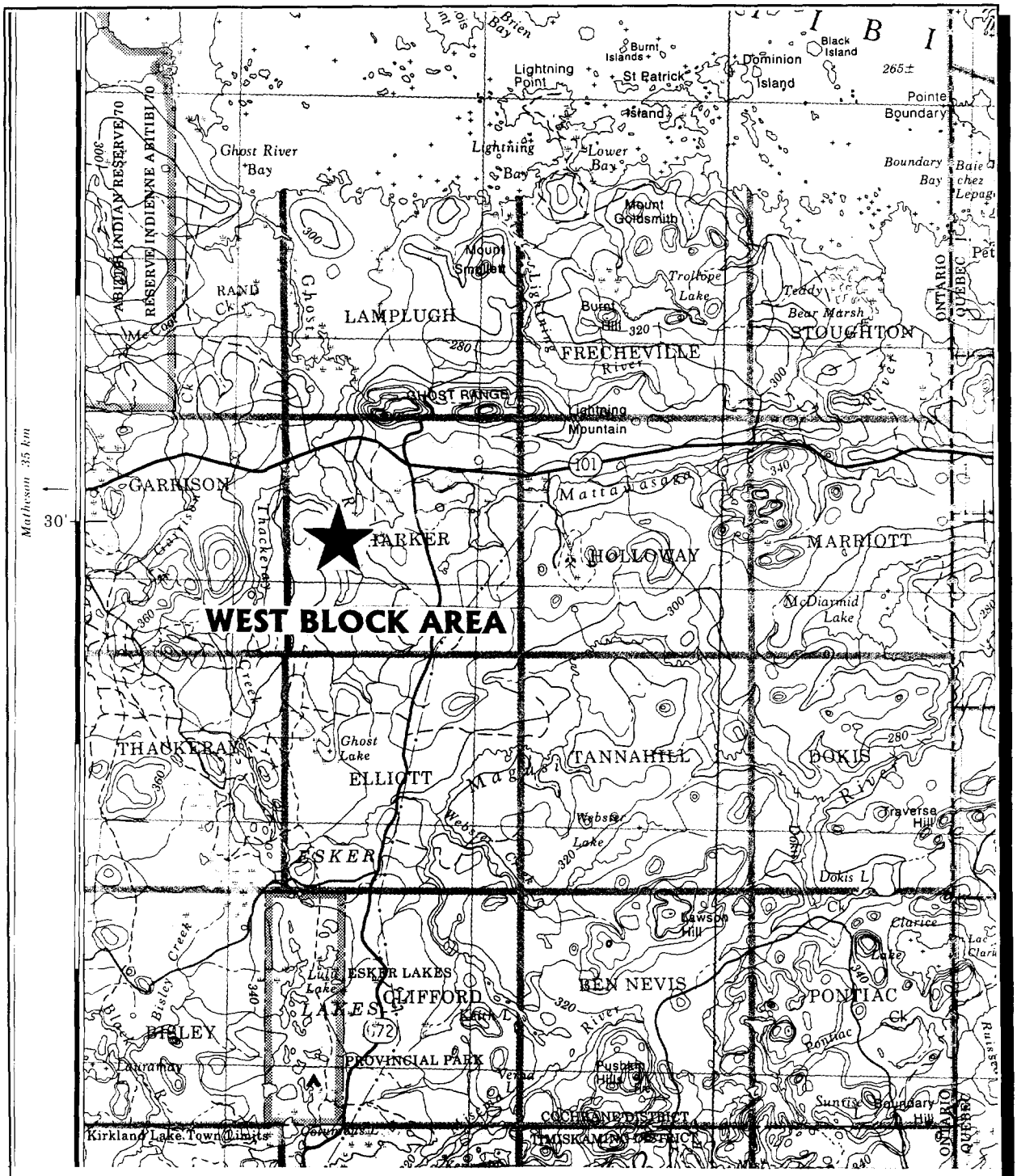


Figure 1. **N.T.S. 32D**
WEST BLOCK Property, **Location map** Scale 1:250,000

The **WEST** block consists of twenty-seven (27) patented, 16-hectare claims, staked in the west-central portion of Harker Twp. The Induced Polarization surveys covered the entire Block. The geophysical maps at 1:5,000 scale appended to this report show the claim lines and the claim numbers.

The **Holt-McDermott Mine** is located about 8 kilometers along strike to the east of the **WEST** Block.

Description of the I.P. surveys

The Induced Polarization survey was carried out along previously cut survey lines, oriented at 000°, spaced every 100 meters and chained/picketed every 25 meters. A base line (B.L. 0+00N), striking at 090°, was used to set off the grid. The survey lines go from L17+00mW to L11+00mE. Tie lines 9+00N, 2+50S and 9+00S were cut to control the grid lines.

The **I.P. survey** was conducted between lines 17+00mW and 11+00mE, using a dipole-dipole electrode configuration. The dipole dimension was 50 meters and successive separations at multiples of n=1, n=2, n=3, n=4, n=5 and n=6 times the dipole dimensions were used, in order to investigate at depth.

A total of approximately **31.8 line-km** of I.P. data was thus gathered by Rémy Bélanger of Rouyn-Noranda.

The I.P. equipment consisted of 1°) a **Phoenix IPT-1** transmitter operating at 1.0 Hz, powered by a 1 kW MG-1 motor generator. The phase angle (in milliradians) between the transmitted current and the received voltage was measured by 2°) a **Phoenix Turbo V-5** phase I.P. receiver, measuring also the apparent resistivity of the earth at each "n". The phase angle is a direct measure of the polarization of the underlying earth.

The results of the I.P. surveys are presented in the appendix, namely in the form of pseudo-sections of the apparent resistivities and of the measured phase angle, at the scale 1:5,000 and also on plan maps at 1:5,000, showing the **contours of the apparent resistivity** at n=1 and the **contours of the polarization** at n=1, both with the interpretation of the I.P. anomalies superimposed, using symbols whose meanings are explained in the accompanying legend.

Results and interpretation

The Induced Polarization method is probably the best geophysical prospecting tool when investigating for base or precious metals in geological and structural environments such as the Holt-McDermott area. Indeed, the I.P. technique is capable of mapping most types of metallic sulfides, even when they do not conduct, which is often the case with structure-hosted gold mineralization associated with disseminated and stringer sulfides in fractures. Furthermore, the I.P. technique can also discriminate between "poor" conductors associated with electrolytic conductivity such as porous shear zones and overburden depressions, and "poor" conductors caused by low-conductivity metallic mineralization, such as stringer sulfides or sphalerite-enriched sulfides. Its performance is occasionally hampered by conductive cover such as lacustrine clays and by resistive glacial sand cover (eskers), when present.

In this particular case a 50-meter dipole dimension was chosen because of its penetration capability and for outlining potentially deep and wide pyrrhotite-pyrite-chalcopyrite mineralized zones having a significant depth extent. With the n=6 expanders, and considering the generally low noise levels and the resistive cover within the survey area, this I.P. survey should be able to successfully detect widespread metallic sulphide mineralization in the bedrock to depths in excess of 100 meters.

· ***Resistivity***

The resistivity relief, as contoured on the 1:5,000 colour plan map (see appendix) , provides a quite faithful image of the overburden's cover and of the bedrock surface's relief. About half of the survey area is characterized by relatively high apparent resistivities (> 1,000 ohm-meters). These higher resistivity areas are confined to the western and eastern portions of the grid, indicating that thinner overburden conditions are prevailing over these areas. It might be advisable to visit these high-resistivity zones in the field, as there could be some chance that new bedrock outcrops might be discovered. Very often also, high resistivity zones occur over hydrothermally-altered lithologies and structures enriched with silica and carbonates, an excellent tracer tool for gold-hosting environments.

Of particular interest on the resistivity contour map are a number of narrow NNW-SSE-trending linear low-resistivity trends in the western half of the block. They could very well be caused by porous open faults and structures.

Also the central portion of the survey area is characterized by low-resistivity values, in part caused by an increased overburden thickness and wet surface conditions due to the presence of the north-south Ghost River passing through that area. It is also quite probable that a major north-south fault or multiple faults have developed through that area.

· ***Polarization (I.P.)***

The I.P. measurements show the presence of four clusters of anomalous polarization within the survey area. Referring to the I.P. **pseudo-sections** and the N=1 phase **I.P. contour map** and its accompanying legend, the I.P. anomalies were classified according to their "strength" (i.e. the probable "massiveness" of the causative metallic material) and their degree of definition (a well-defined I.P. anomaly is one which displays a clear, unambiguous *triangular* shape on a pseudo-section), as well as according to the behavior of the apparent resistivity.

Conductive, semi-massive and massive metallic mineralization (graphite and/or massive sulfides) will typically cause a decrease in the resistivity in addition to a strong I.P. anomaly. So will a mineralized shear corridor carrying disseminated or stringer sulfides. The symbols used in the interpretation of the I.P. survey are explained on the compilation maps and on the pseudo-sections.

The majority of the responses are situated in the **northwest** portion of the grid where a topographic high, associated with a resistivity increase, cause higher background levels in the phase I.P. measurements of that area. Through this higher background, two discrete anomalous I.P. trends can be identified. They strike east-west and are situated at shallow depths.

The same type of signature was also recognized in the east, in the vicinity of line 700E to line 900E near the base line, where a small cluster of three I.P. anomalies was delineated.

These groups of I.P. anomalies probably indicate the presence of metallic mineralization in the bedrock in the form of disseminated sulfides within a resistive host (silica-carbonate enriched?)

In addition, there is one horizon in the south which carries **conductive** metallic mineralization, as evidenced by relatively strong I.P. anomalies with coincident resistivity lows. This east-west trend was mapped almost continuously between lines 1500W (near 900S) and 300W (near 650S), and it indicates the presence of semi-massive to massive sulfides or graphite in the bedrock at depths not exceeding 25 meters. A formational graphitic unit is a very possible cause to this anomaly but it nevertheless warrants a substantiation by means of diamond drilling.

Conclusion and recommendations

The Induced Polarization surveys which were recently completed on the **WEST** block of the Holt-McDermott project, for **Barrick Gold Corp.** have successfully defined a number of resistive regions interpreted to be possibly indicative of hydrothermally-altered structures, as well as a wide north-south low-resistivity lineament which could indicate the presence of a major structural corridor.

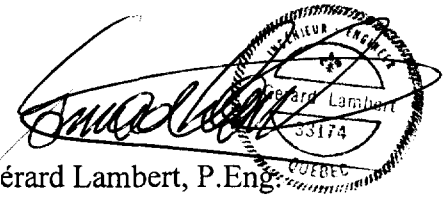
Four groups of I.P. anomalies were delineated, and those three groups situated in high resistivity environments should be investigated by stripping/trenching or by short drill holes. The long I.P. trend in the south, possibly caused by a graphitic unit, will necessitate drilling in order to be properly explained.

Depending on the knowledge of the property's geology from compilation of past exploration work, some of the I.P. anomalies presented here may be readily written off as having been properly explained. However those which have not been yet accounted for should definitely be investigated further.

It is difficult, *from a geophysical point of view alone*, to rate the I.P. anomalies in terms of their economic potential, especially when one is exploring for gold. But it is expected that the "strongest" I.P. anomalies (particularly those identified with black and thick-walled squares on the maps) will be caused by semi-massive to massive ***metallic*** mineralization such as graphite or pyrite (with possibly accessory pyrrhotite or sphalerite) in the bedrock, at depths not exceeding 50 meters below ground surface.

From a strictly geophysical standpoint, all the interpreted I.P. responses certainly deserve further investigation by means of diamond drilling, aiming at intersecting the mineralized units at 60 to 80 meters below ground surface. The causative sources appear to be sub-vertical, so the direction of drilling is not critical.

The choice of drilling priorities will however require some input from other sources of geoscientific information, such as compilations of past work, presence of nearby gold showings and mineralized intersections, as well as an analysis of the magnetic map in conjunction with the regional geological compilation.



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WEST BLOCK

SIMS

SIMS

WEST BLOCK

SIMS

GARRISON TWP

HARKER TWP

REEVES LAKE

NEWMEX

CANAMAX

BASE LINE 0+00N

T.L. 900N

T.L. 900S

Tie Line 9+00S

641406

641413

641412

641417

LEGEND

INTERPRETATION

Apparent Resistivity at N=1 (Ohm-meters)

Scale 1:15,500

WEST BLOCK

BARRICK GOLD CORPORATION
(Eastern Canada Explorations)

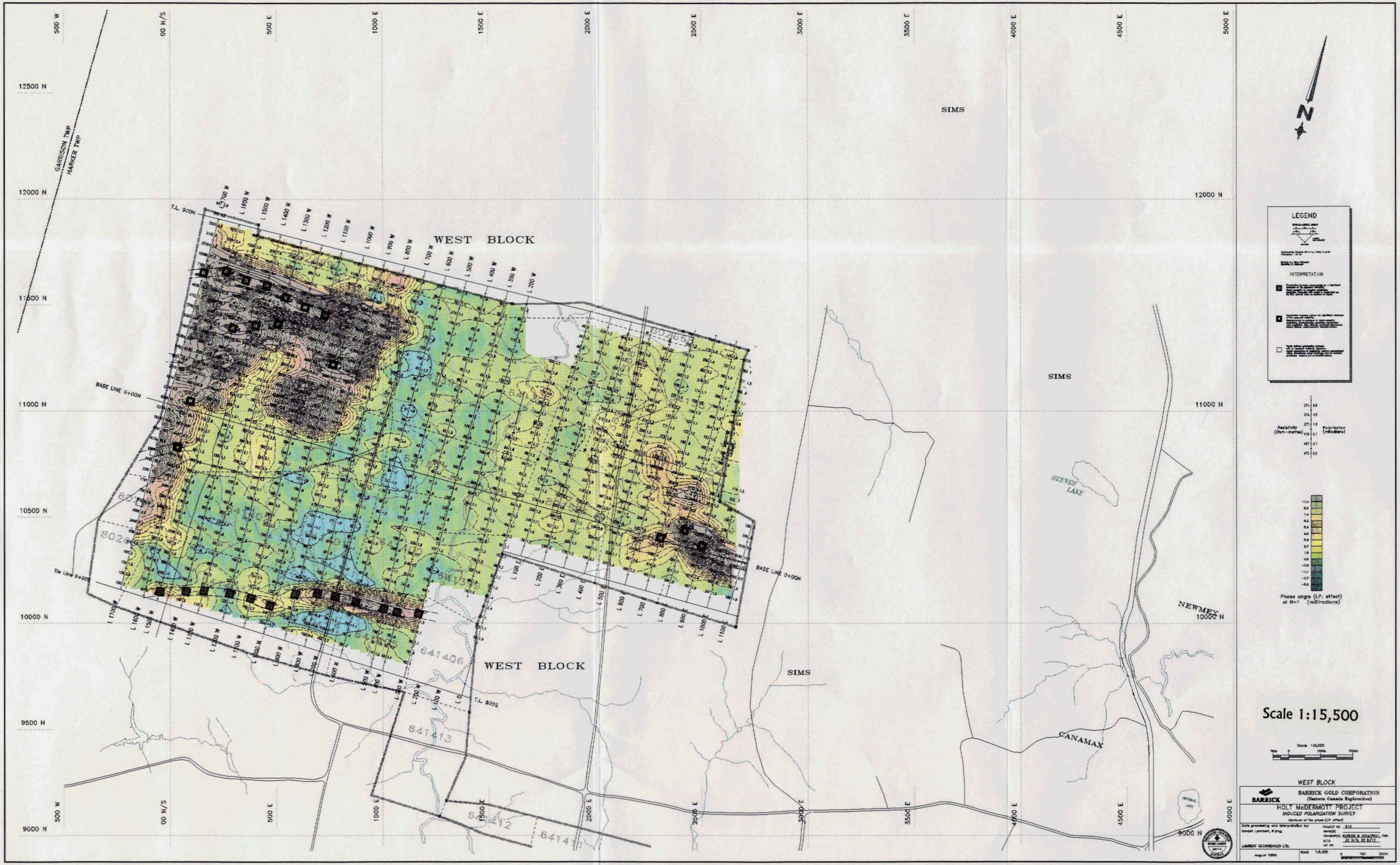
HOLT McDERMOTT PROJECT
INDUCED POLARIZATION SURVEY

Contours of the apparent resistivity

Data processing and interpretation by:
Gerard Lambert, P.Eng.

LAMBERT GEOSCIENCES LTD.

August 1992


WEST BLOCK
SIMS
NEWMEX
CANAMAX
REEVES LAKE
GARRISON TWP
HARKER TWP
BASE LINE 0+00N
T.L. 900N
T.L. 900S
Tie Line 9+00S
500 W
00 N/S
500 E
1000 E
1500 E
2000 E
2500 E
3000 E
3500 E
4000 E
4500 E
5000 E
12500 N
12000 N
11500 N
11000 N
10500 N
10000 N
9500 N
9000 N
641406
641413
641412
802667
LEGEND
INTERPRETATION
Resistivity (Ohm-metres)
Polarisation (milliradians)
Phase angle (I.P. effect) at N=1 (milliradians)
Scale 1:15,500
WEST BLOCK
BARRICK
BARRICK GOLD CORPORATION
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HOLT McDERMOTT PROJECT
INDUCED POLARIZATION SURVEY
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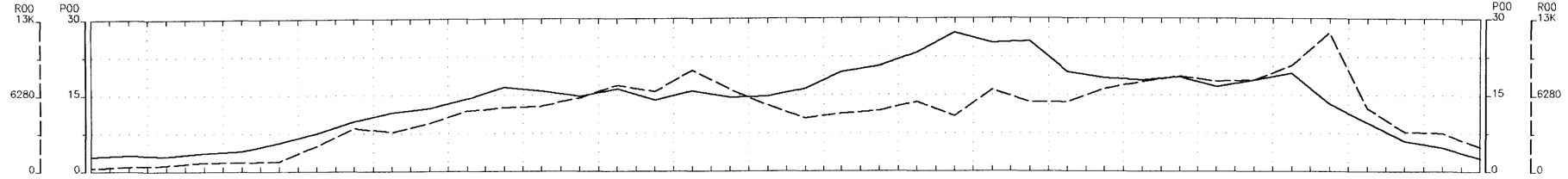
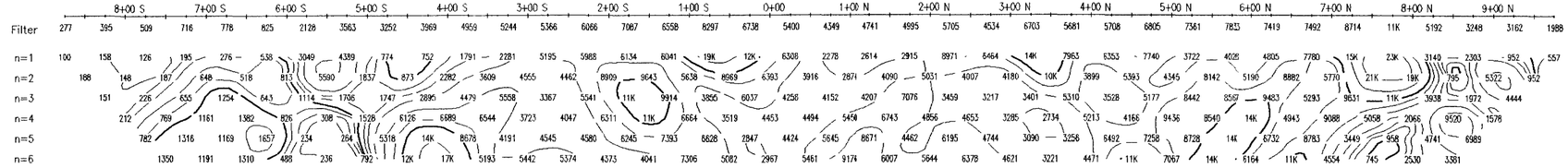
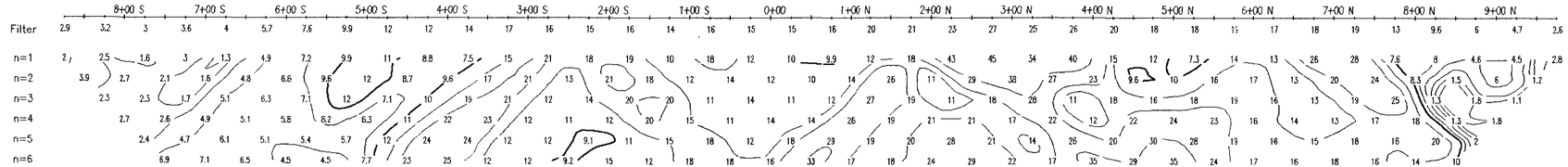


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

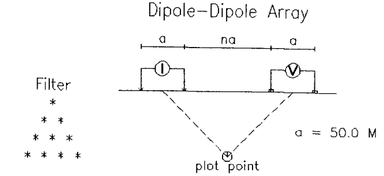
PHASE
MRAD



PHASE
MRAD

Line 1700 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

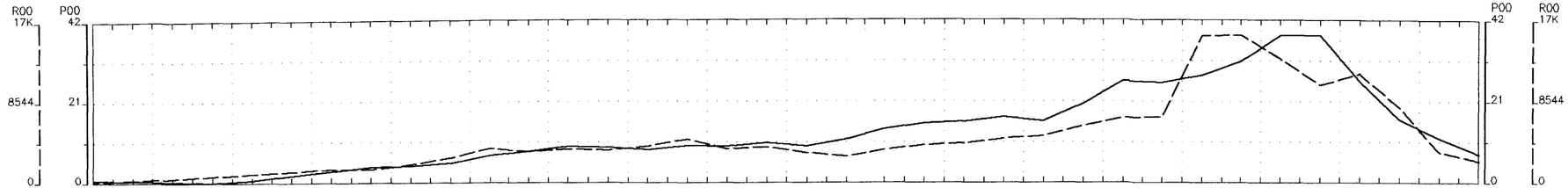
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP - ONTARIO

Date: 96/06/02
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)



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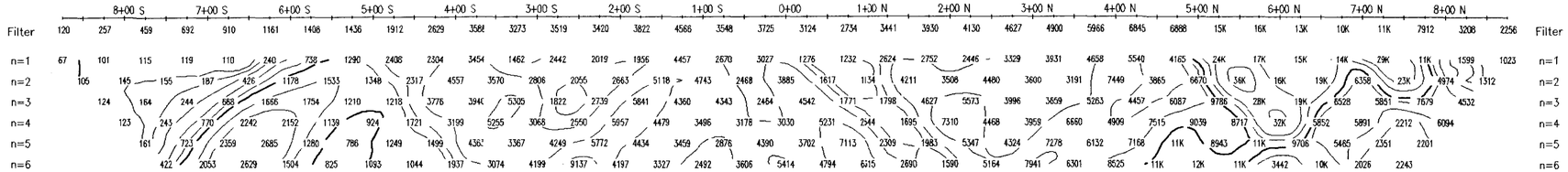
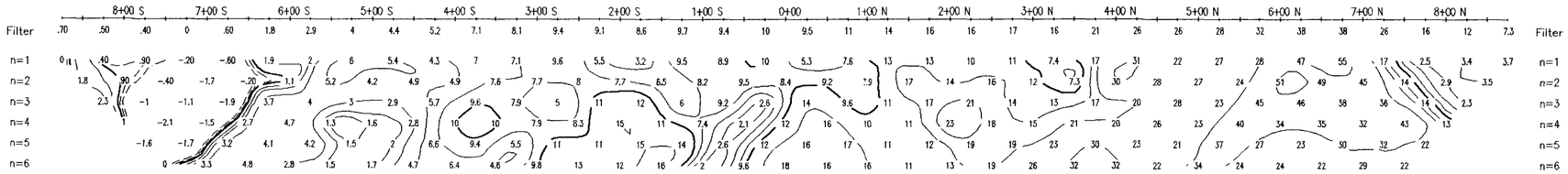


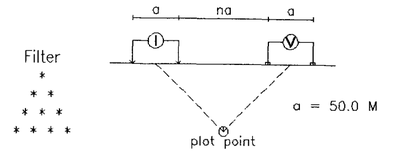
PHASE
MRAD



Geosoft Software for the Earth Sciences

Line 1600 W

Dipole-Dipole Array



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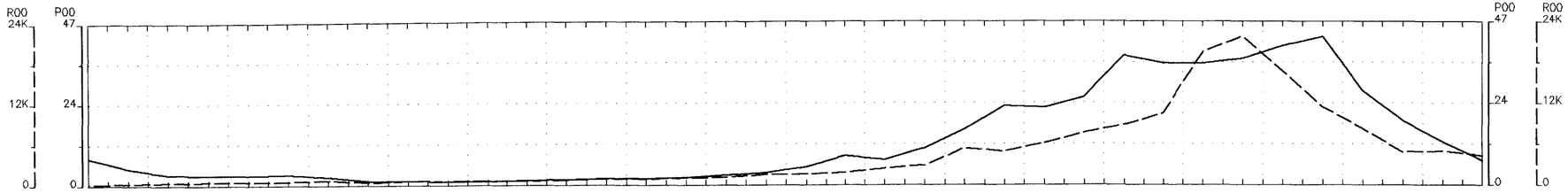
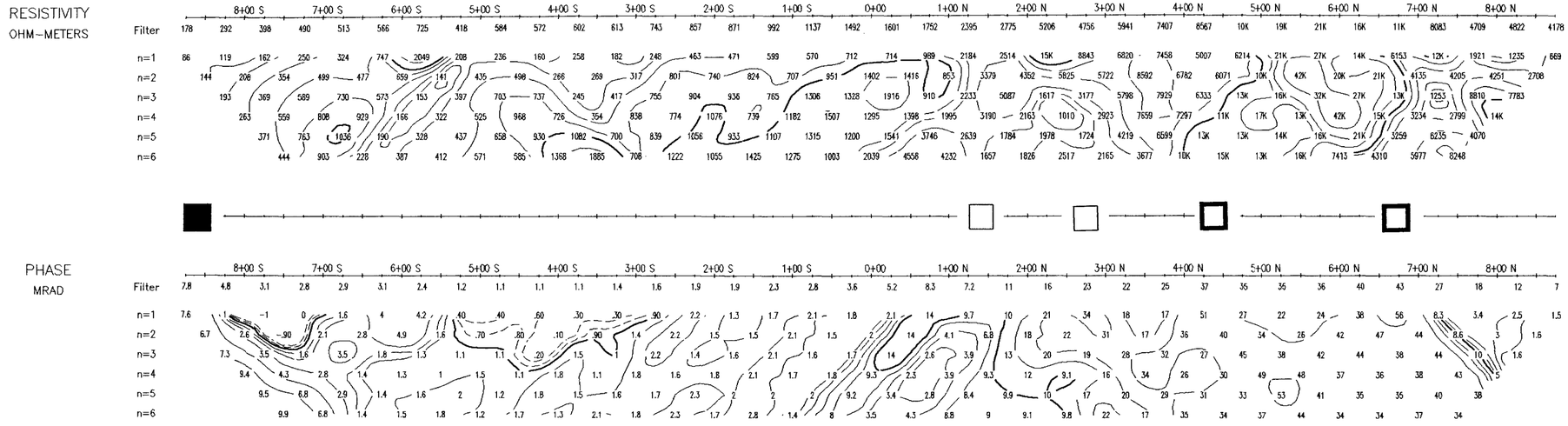
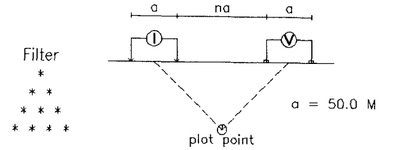




Line 1500 W

Dipole-Dipole Array



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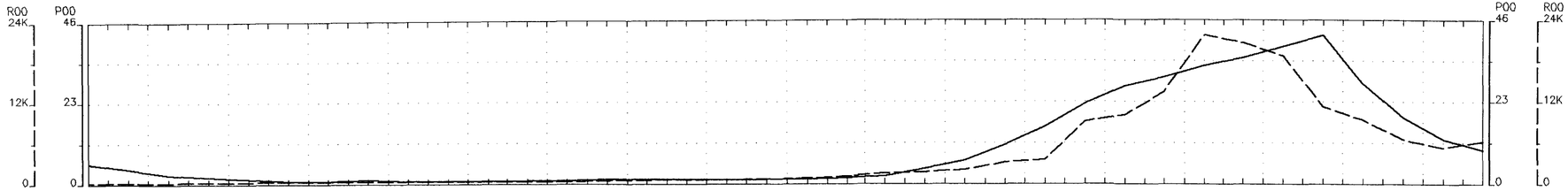
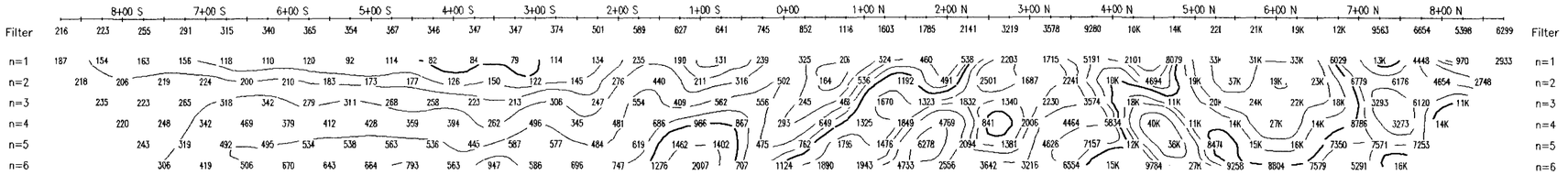
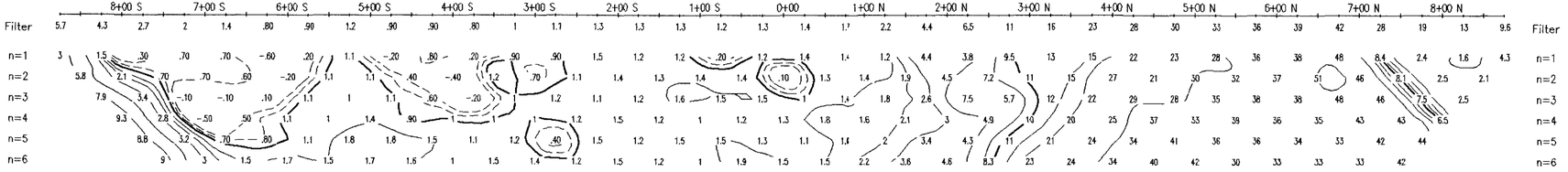


RESISTIVITY
OHM-METERS

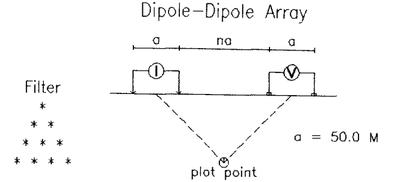


PHASE
MRAD



Line 1400 W

Dipole-Dipole Array



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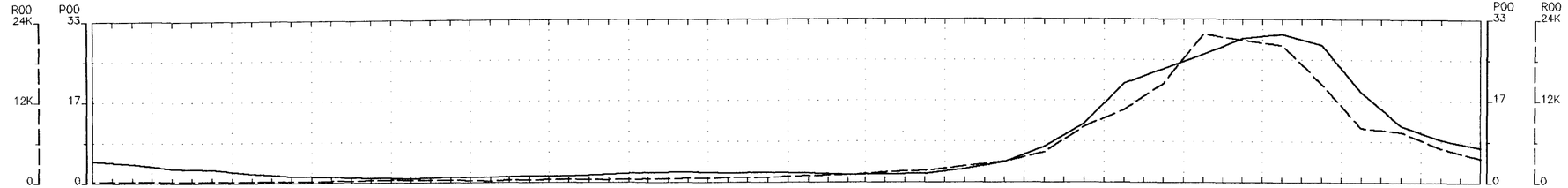

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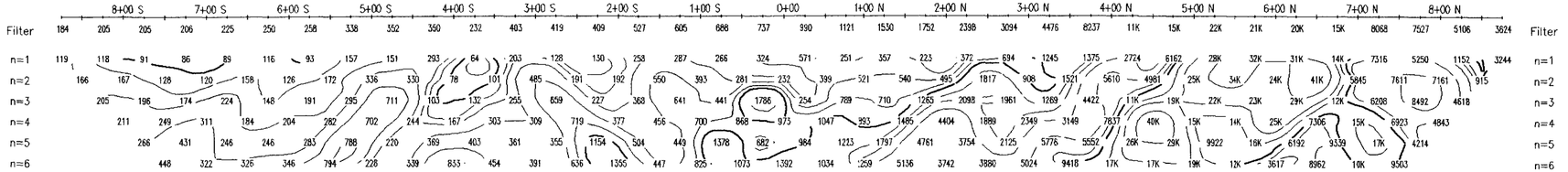

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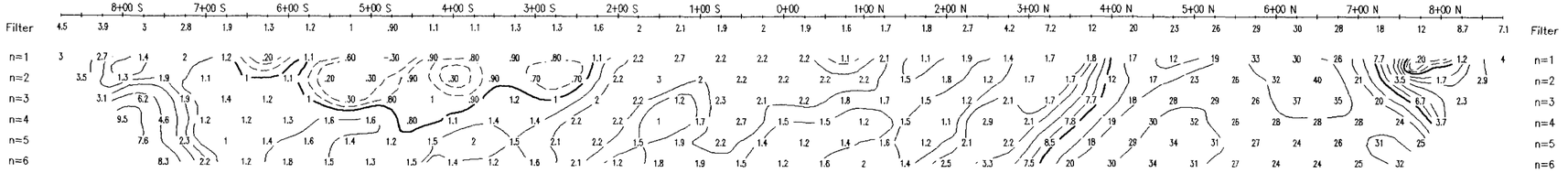
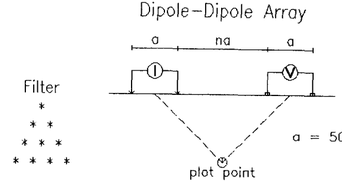


Line 1300 W

Dipole-Dipole Array



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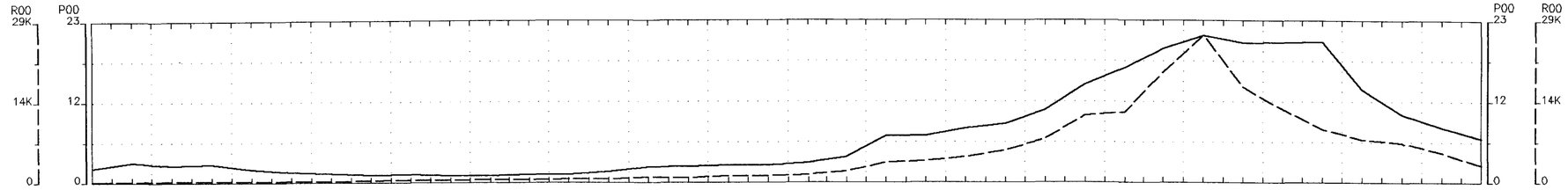
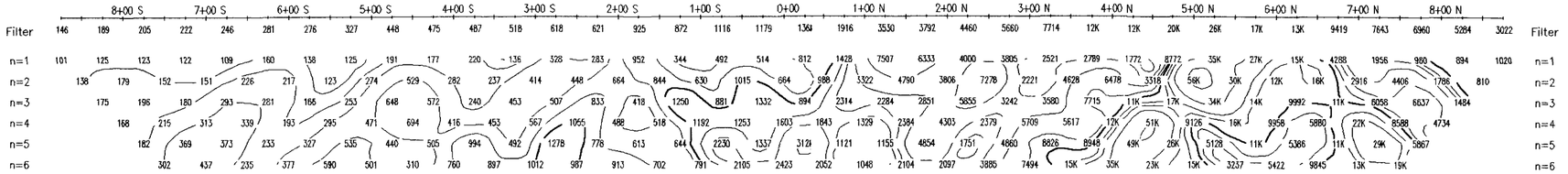


RESISTIVITY
OHM-METERS



RESISTIVITY
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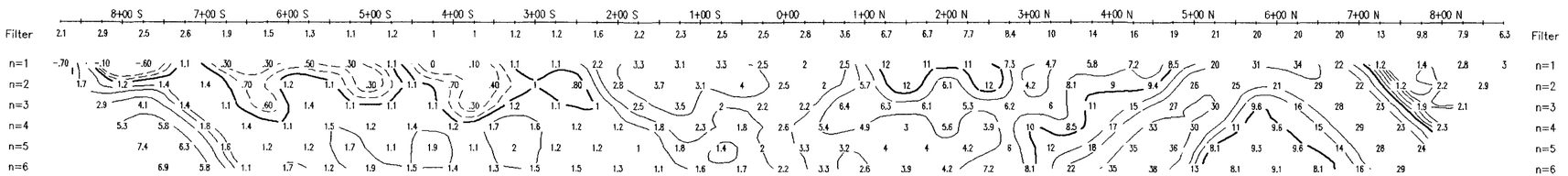

PHASE
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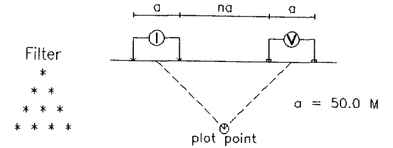
Line 1200 W

Dipole-Dipole Array



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

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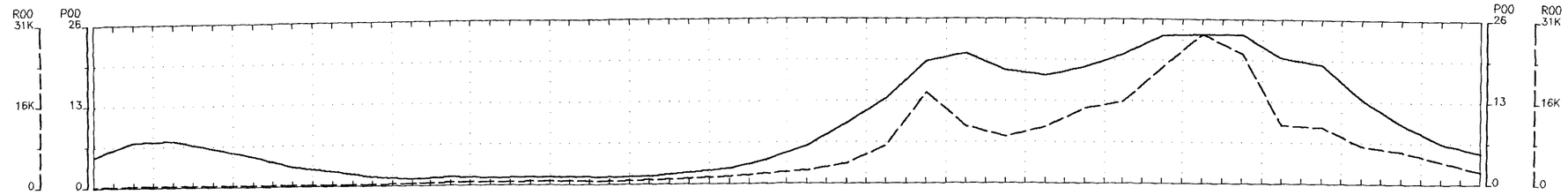
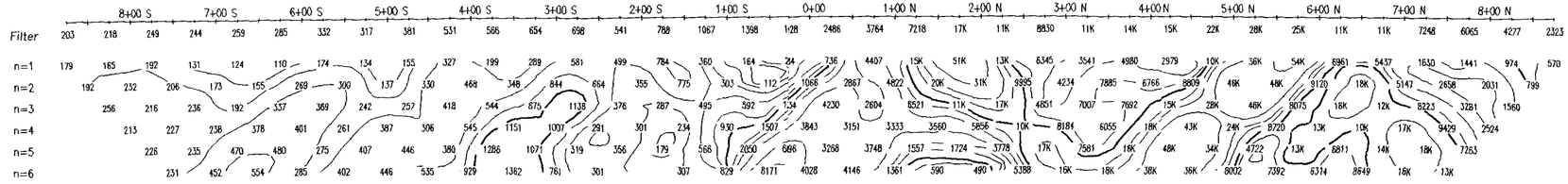
Interpretation: GERARD LAMBERT

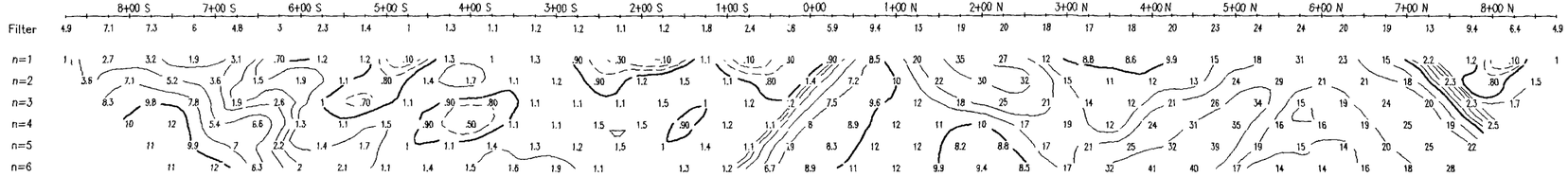
REMY BELANGER (GEOPHYSICAL CONTRACTOR)



RESISTIVITY
OHM-METERS

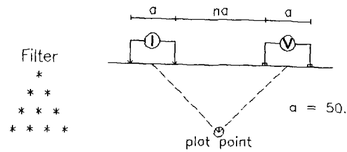


PHASE
MRAD



Line 1100 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

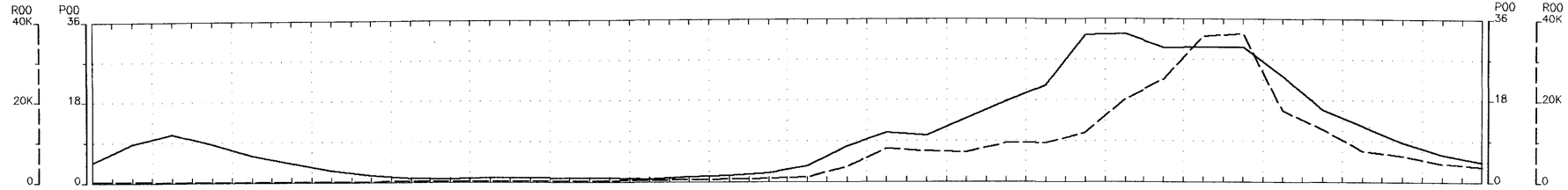
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

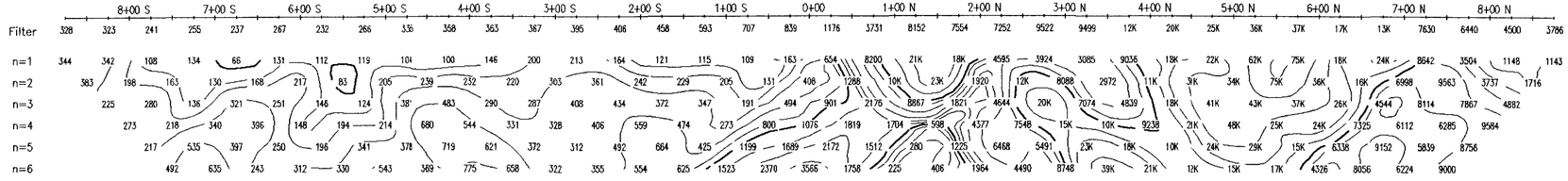
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/04
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

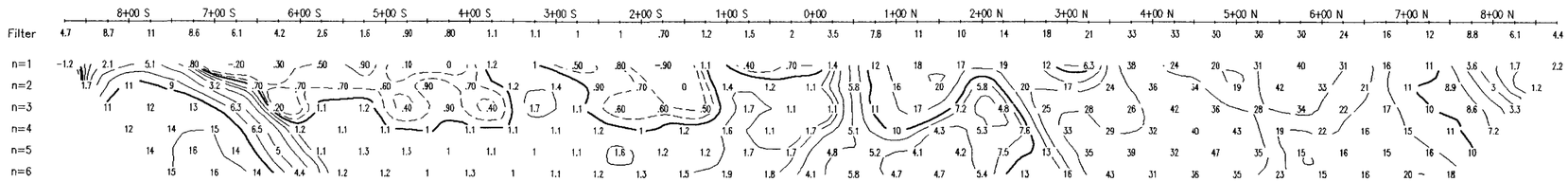


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

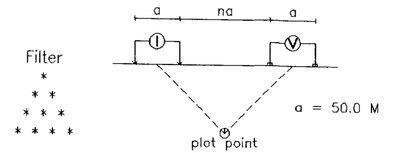
PHASE
MRAD



PHASE
MRAD

Line 1000 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

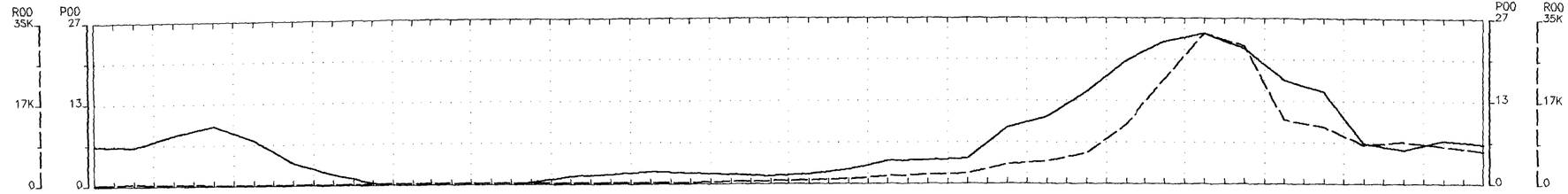
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

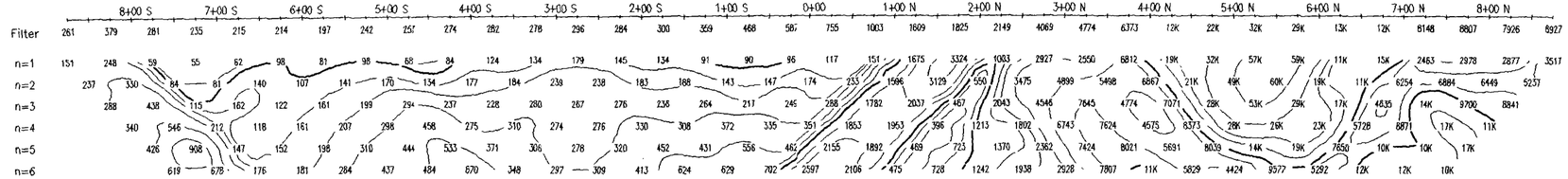
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/04
Interpretation: GERARD LAMBERT

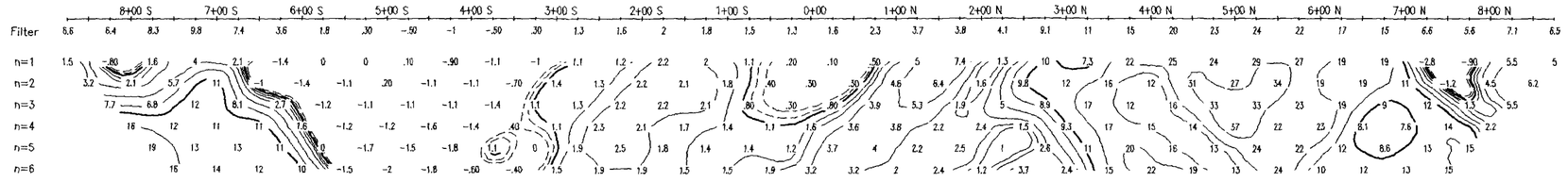
REMY BELANGER (GEOPHYSICAL CONTRACTOR)



RESISTIVITY
OHM-METERS



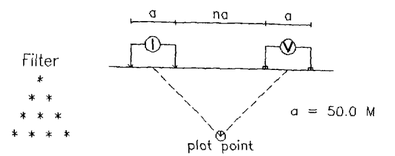
PHASE
MRAD



Geosoft Software for the Earth Sciences

Line 0900 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

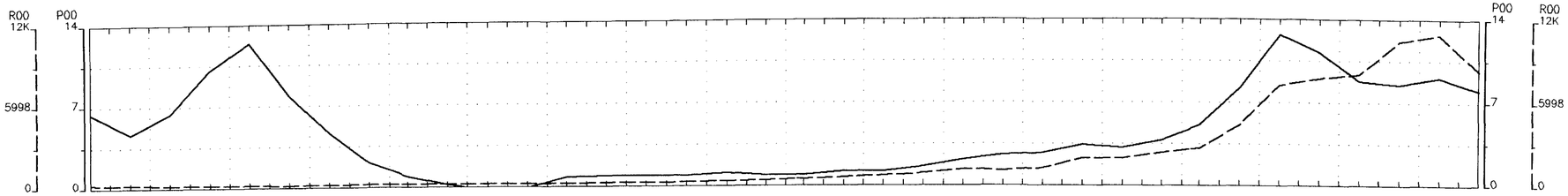
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

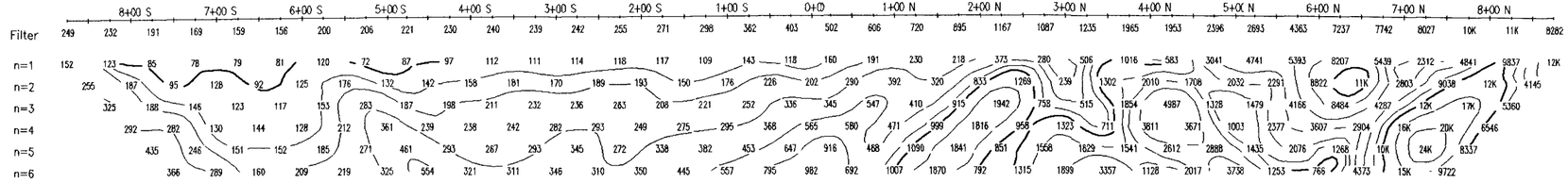
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/04
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

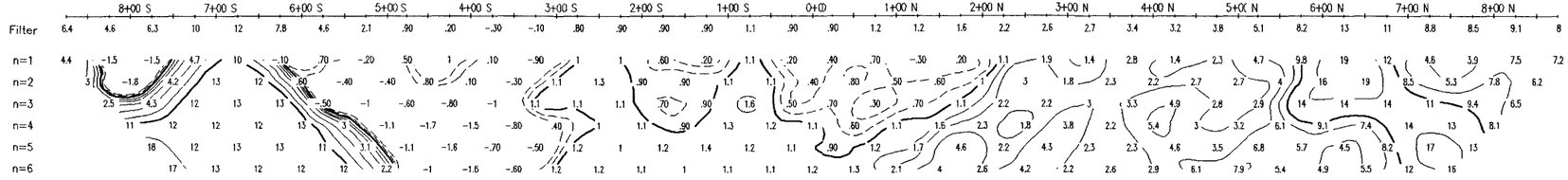


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

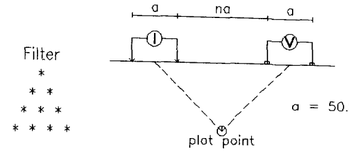
PHASE
MRAD



PHASE
MRAD

Line 0800 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

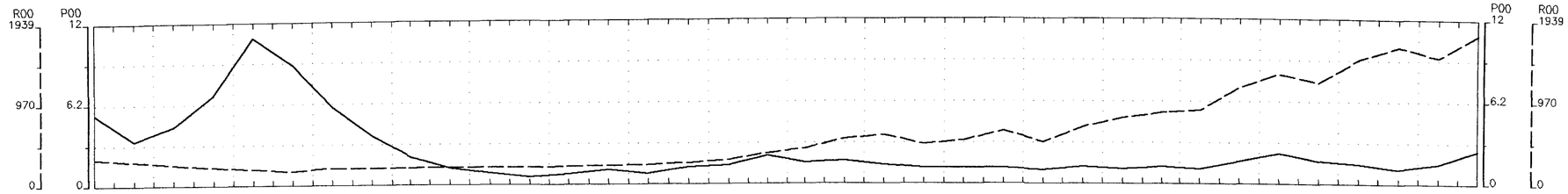
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

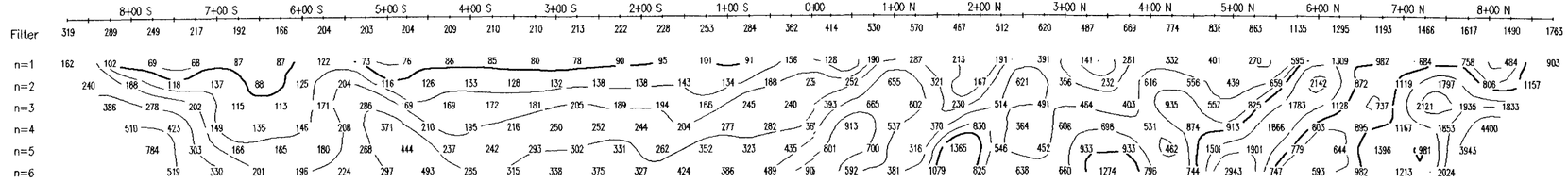
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/05
Interpretation: GERARD LAMBERT

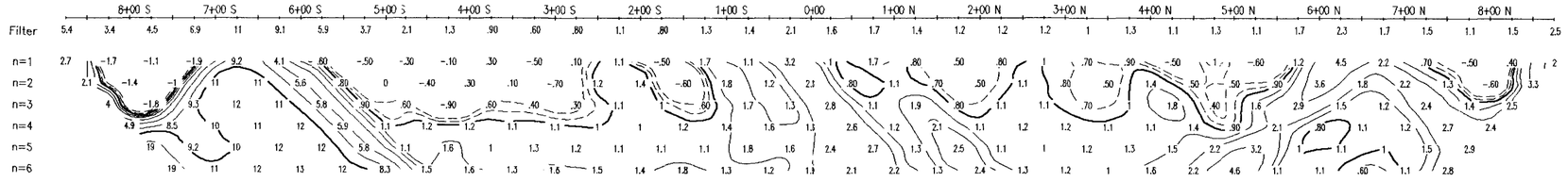
REMY BELANGER (GEOPHYSICAL CONTRACTOR)



RESISTIVITY
OHM-METERS

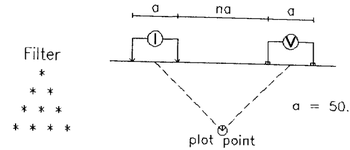


PHASE
MRAD



Line 0700 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

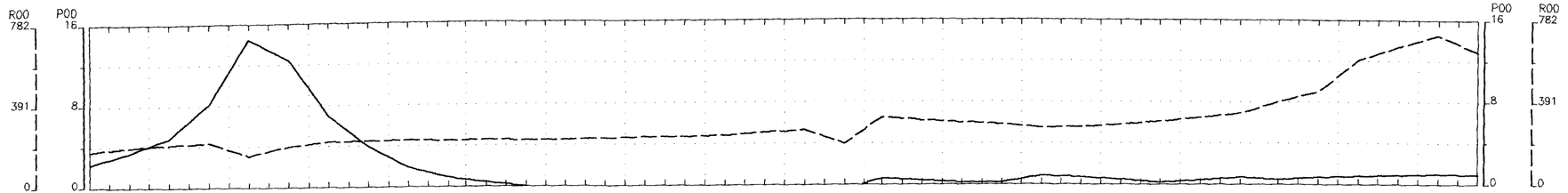
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

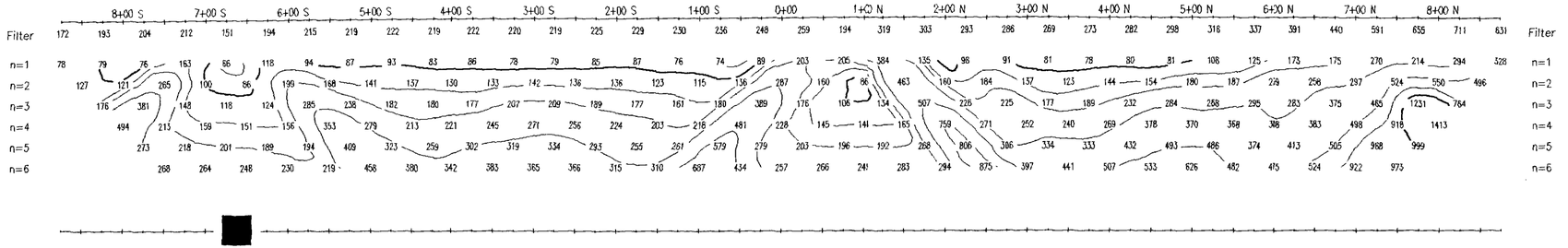
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/05
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

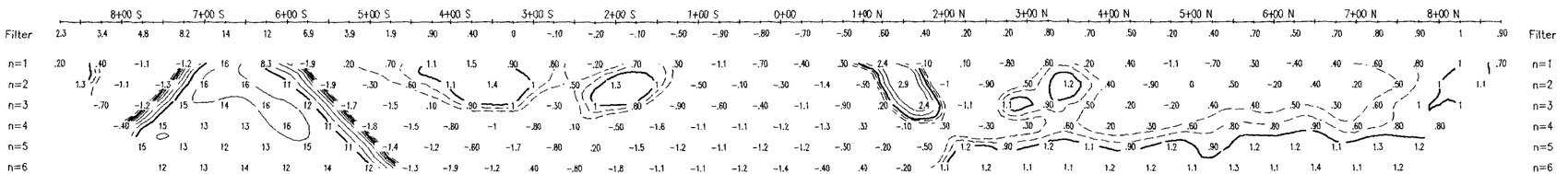


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

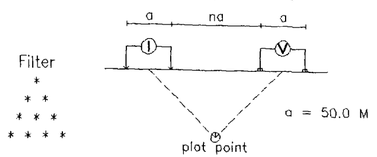
PHASE
MRAD



PHASE
MRAD

Line 0600 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

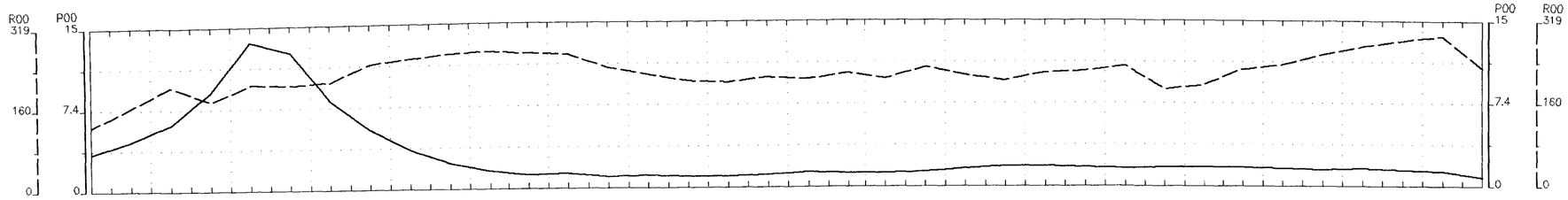
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

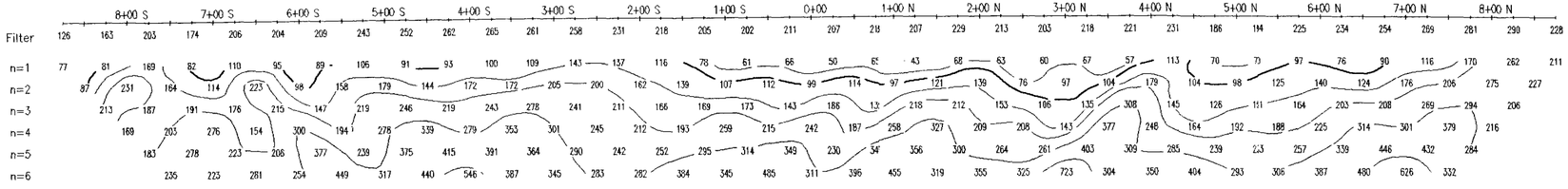
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/06/05
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

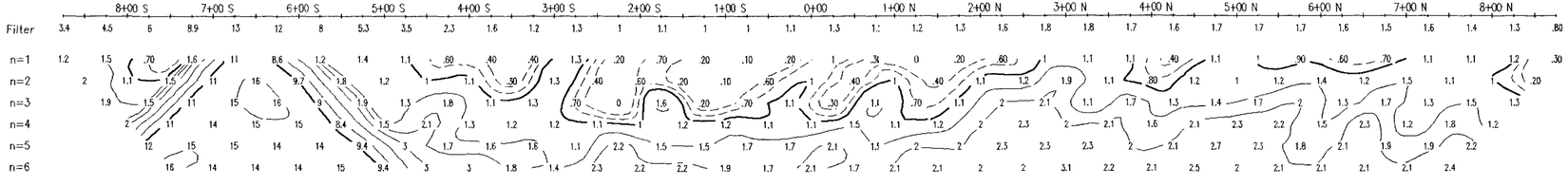


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

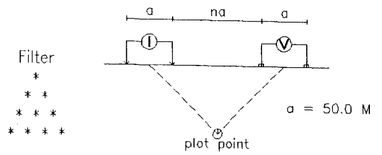
PHASE
MRAD



PHASE
MRAD

Line 0500 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

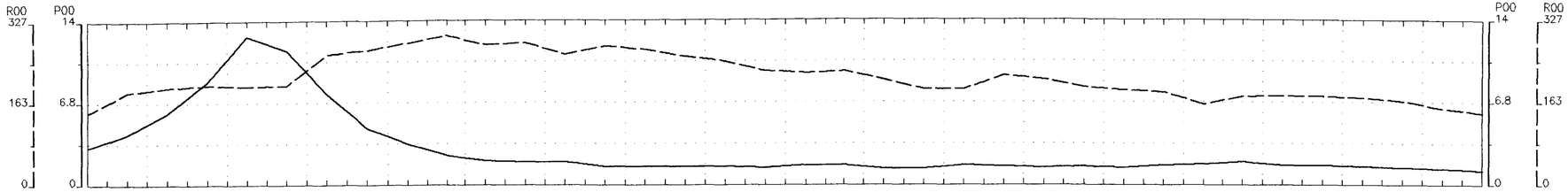
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

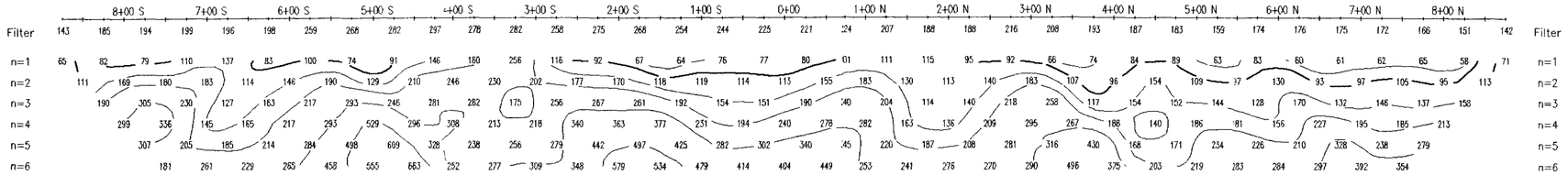
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/03
Interpretation: GERARD LAMBERT

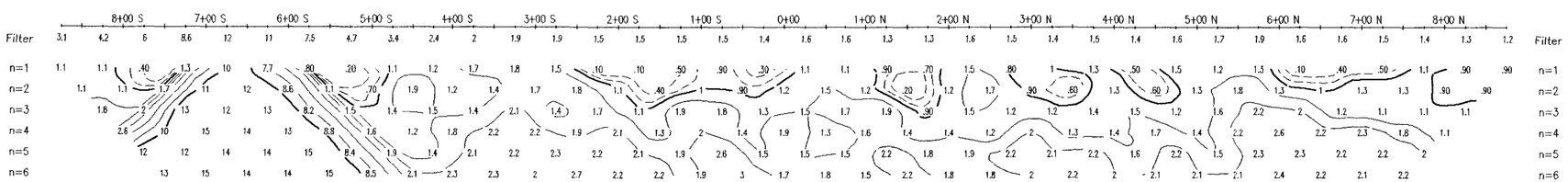
REMY BELANGER (GEOPHYSICAL CONTRACTOR)



RESISTIVITY
OHM-METERS



PHASE
MRAD

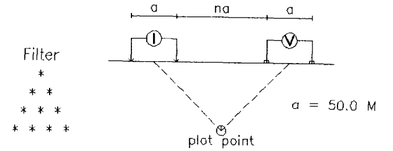


RESISTIVITY
OHM-METERS

PHASE
MRAD

Line 0400 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

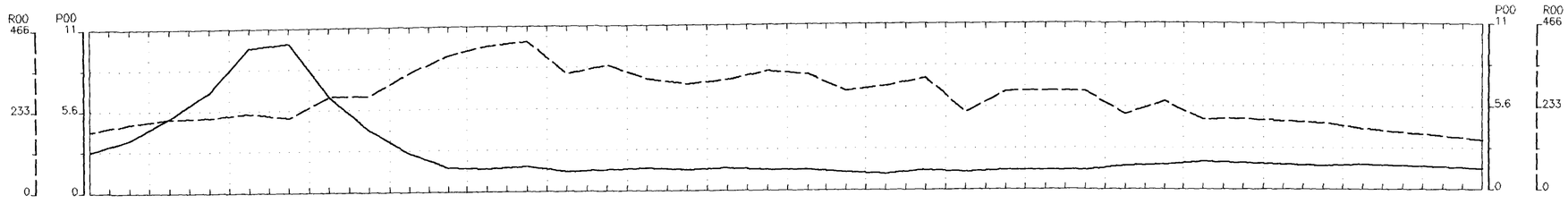
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

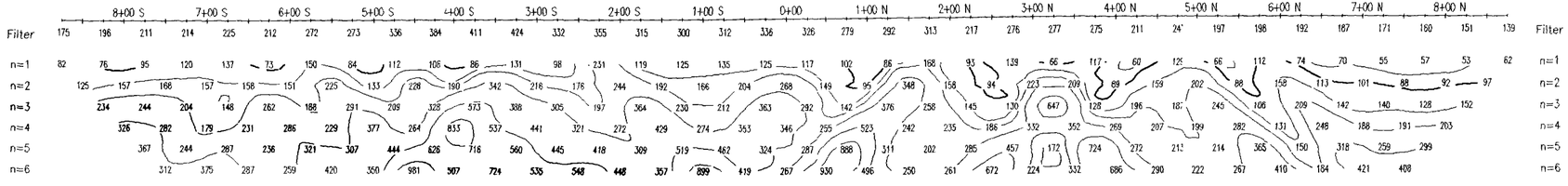
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/03
Interpretation: GÉRARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

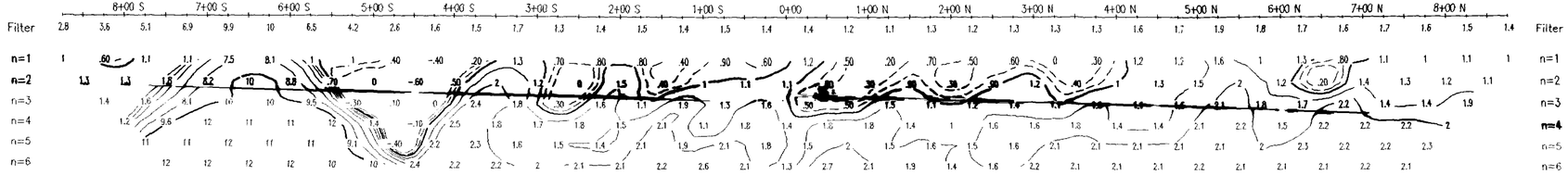


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

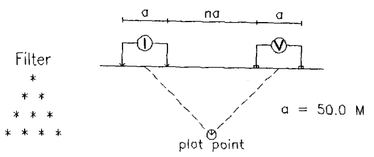
PHASE
MRAD



PHASE
MRAD

Line 0300 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

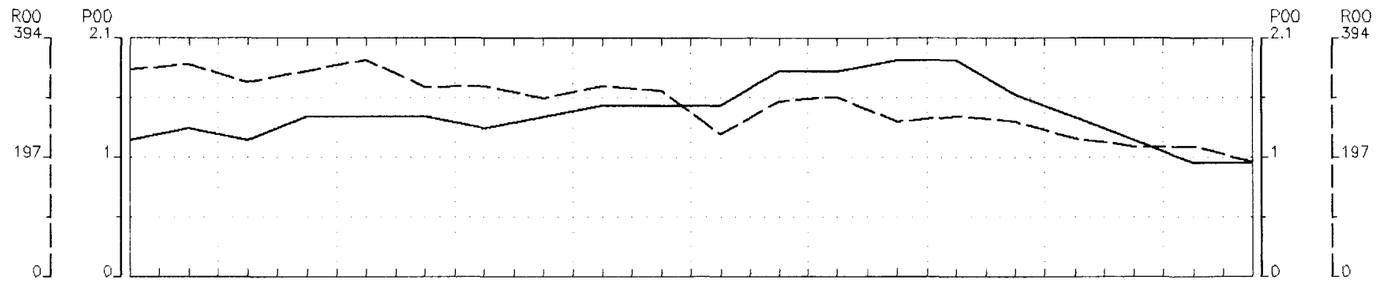
50 0 50 100 150 200 250
(metres)

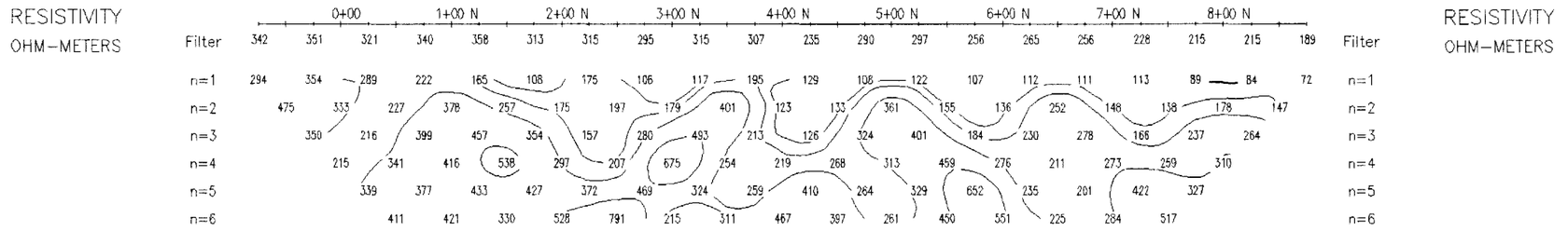
BARRICK GOLD CORPORATION

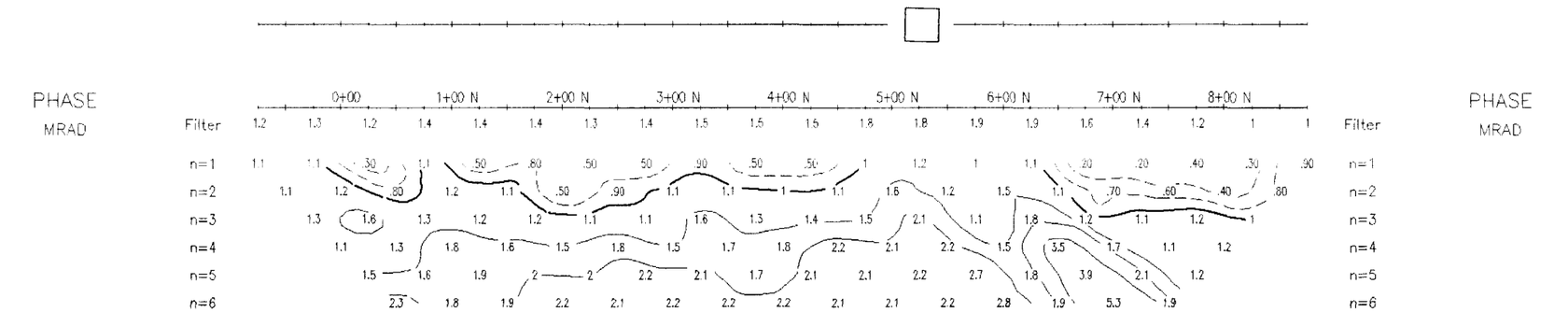
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/03
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

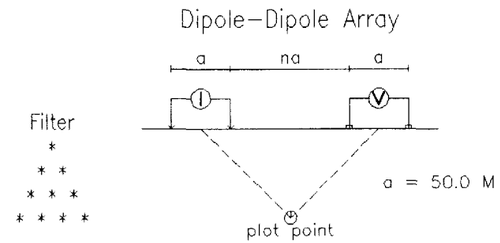






Line 0200 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

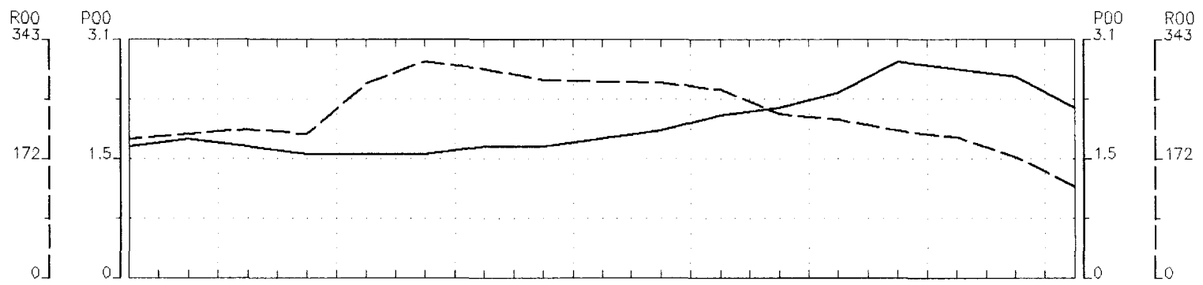
50 0 50 100 150 200 250
(metres)

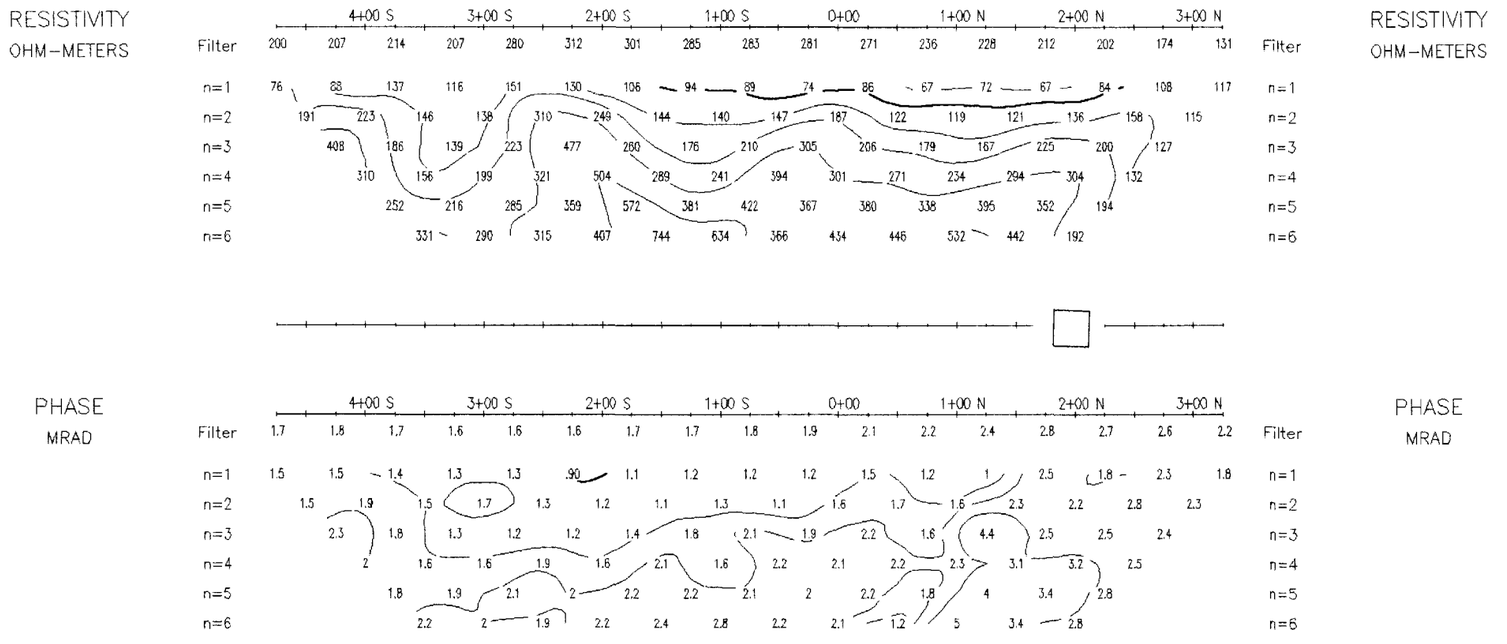
BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/03
Interpretation: GERARD LAMBERT

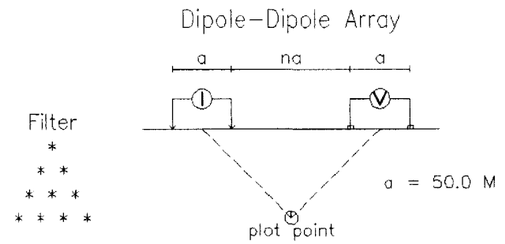
REMY BELANGER (GEOPHYSICAL CONTRACTOR)





Line 0100 W

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
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Scale 1:5000

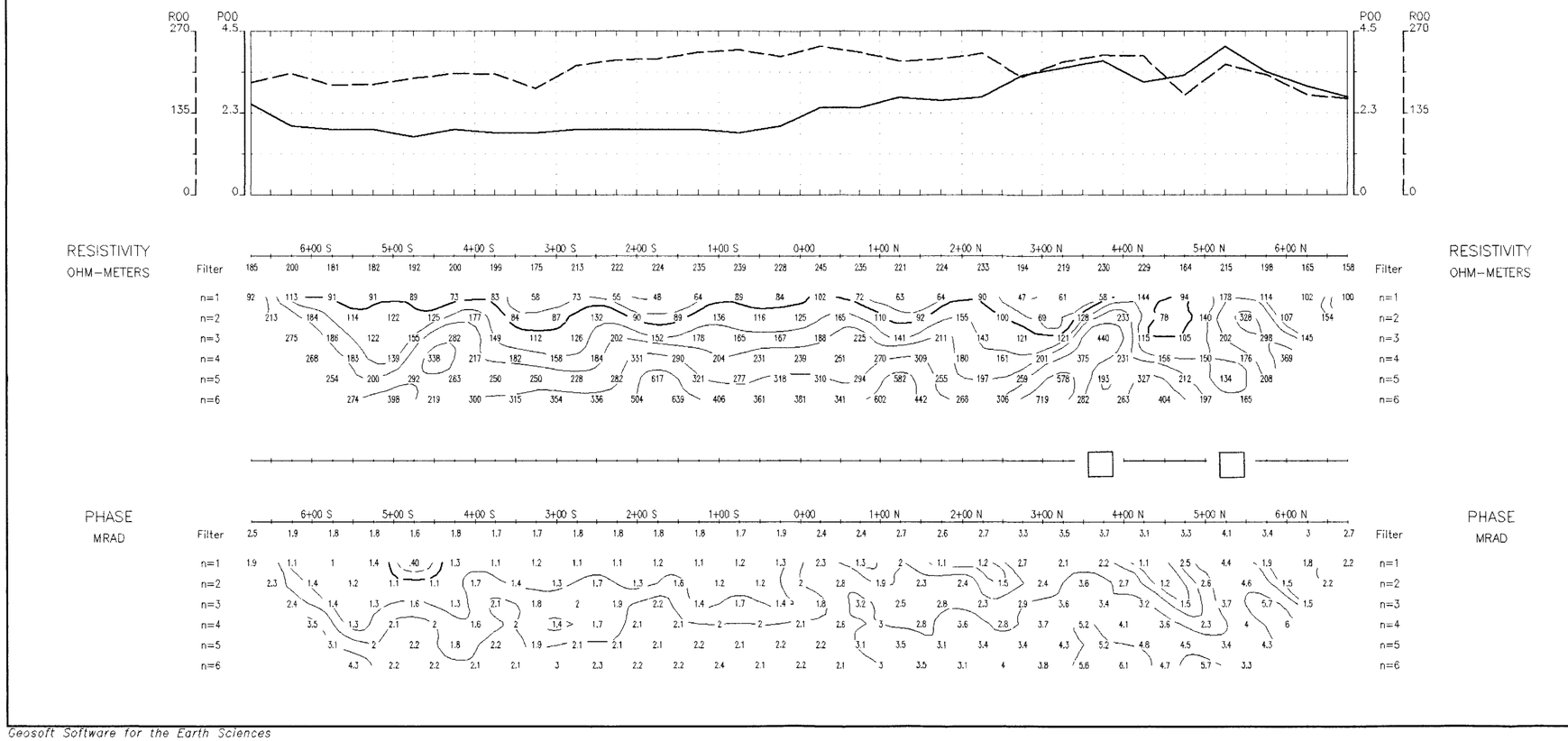
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

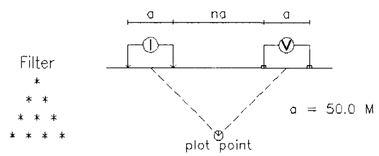
Date: 96/07/06
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)



Line 0000 E

Dipole–Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

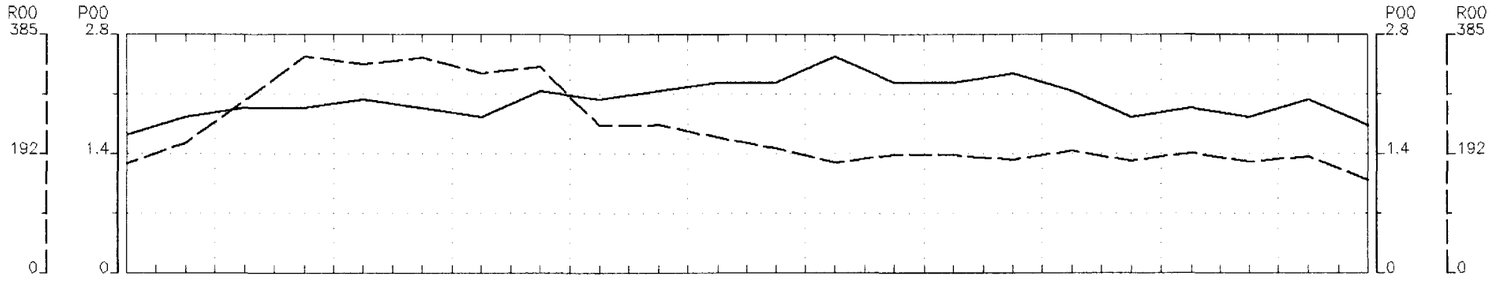
50 0 50 100 150 200 250 (metres)

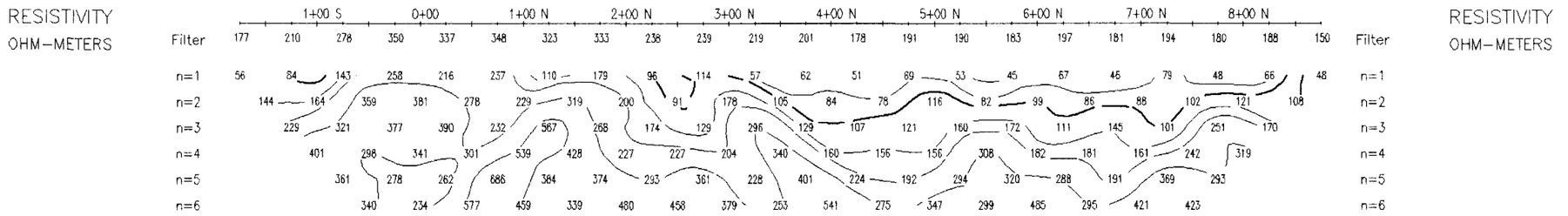
BARRICK GOLD CORPORATION

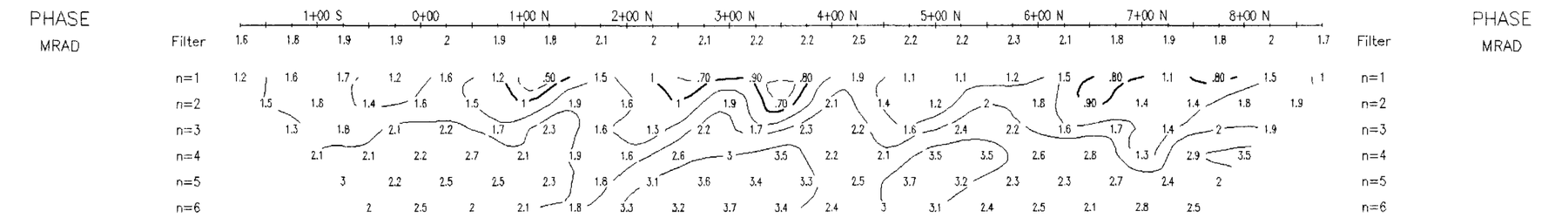
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/06
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

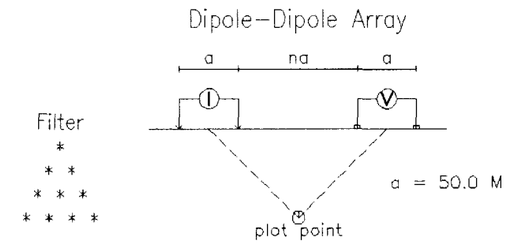






Line 0100 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

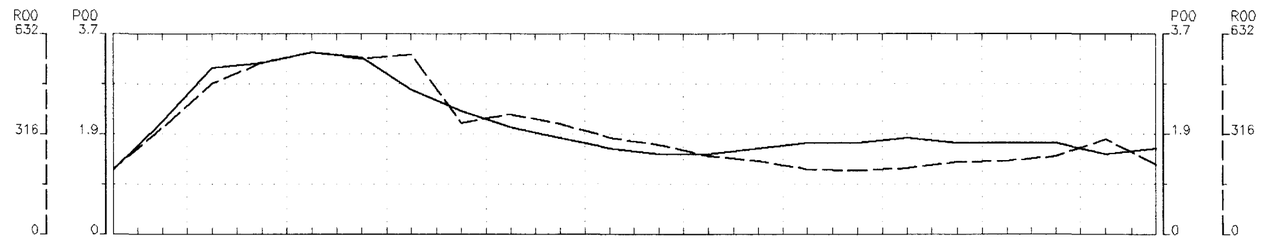
50 0 50 100 150 200 250
(metres)

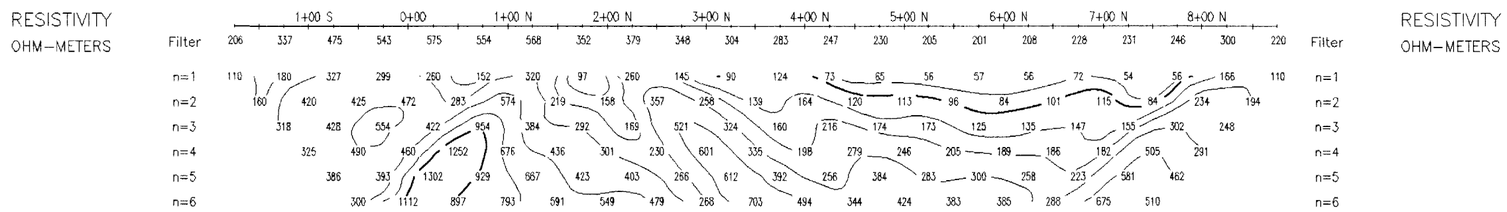
BARRICK GOLD CORPORATION

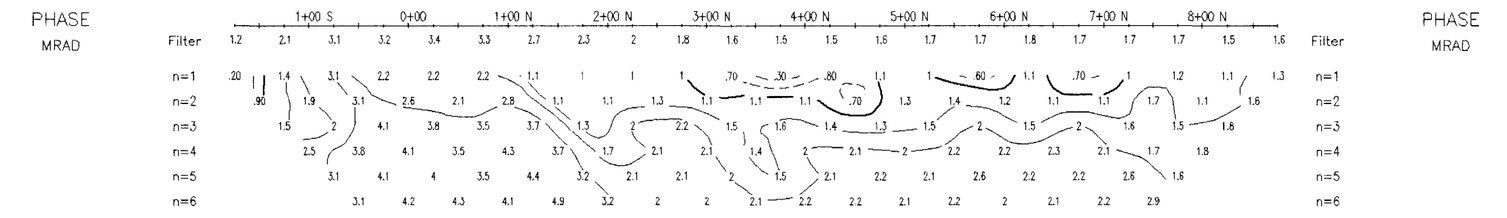
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/05
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

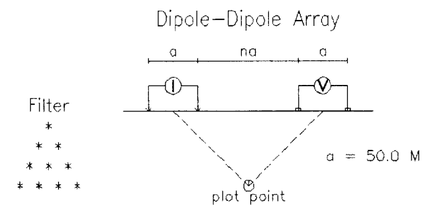






Line 0200 E

Dipole-Dipole Array



Filter

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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

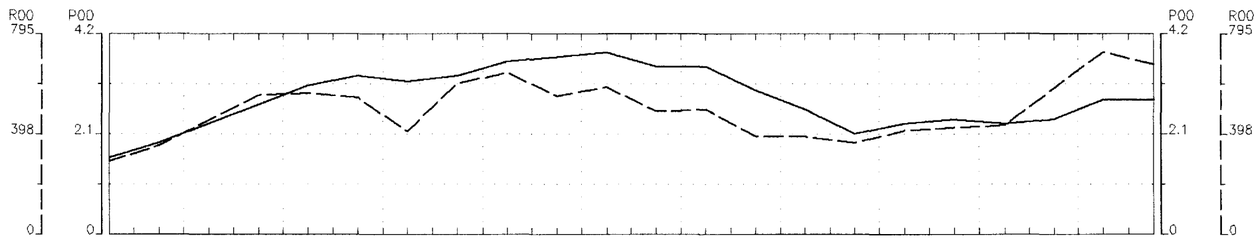
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

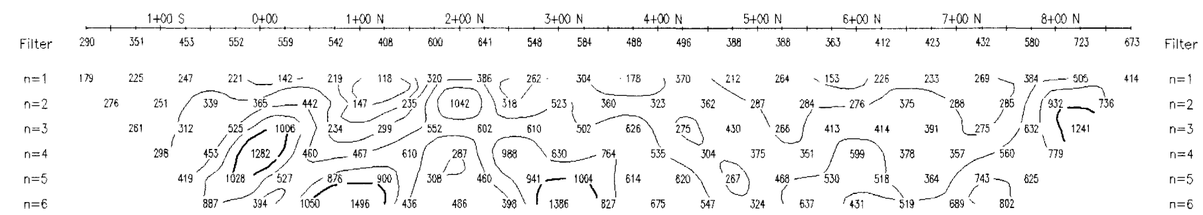
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/04
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

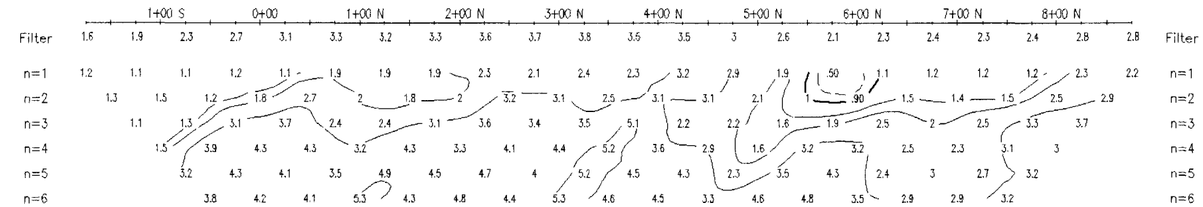


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

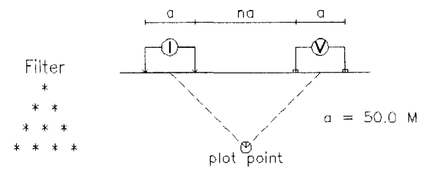
PHASE
MRAD



PHASE
MRAD

Line 0300 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

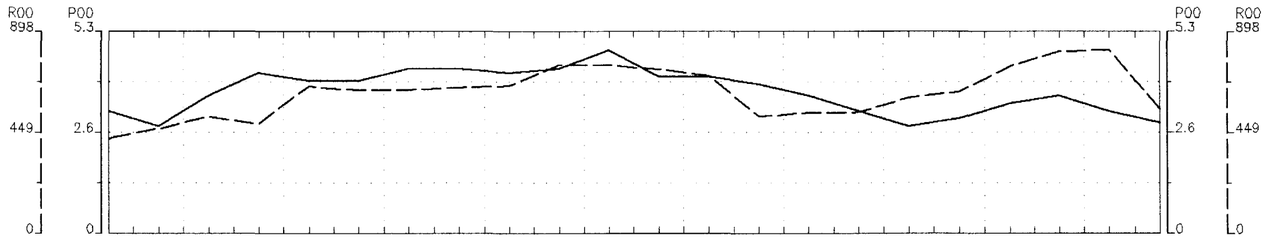
50 0 50 100 150 200 250
(metres)

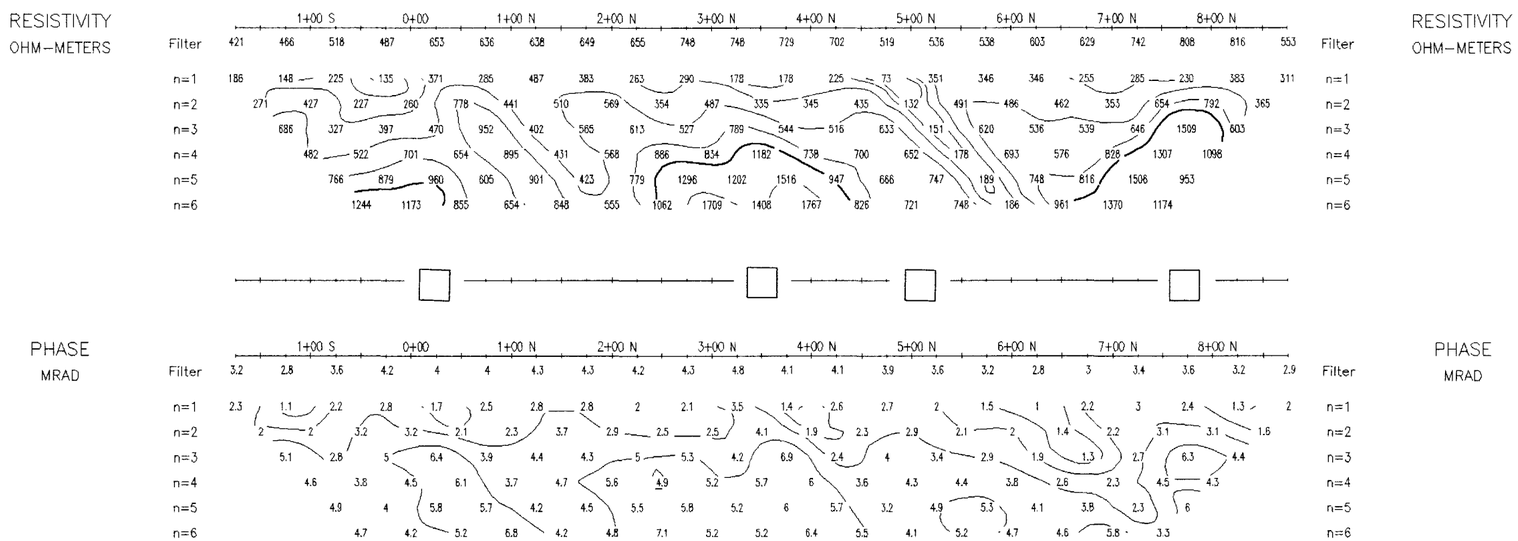
BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/05
Interpretation: GERARD LAMBERT

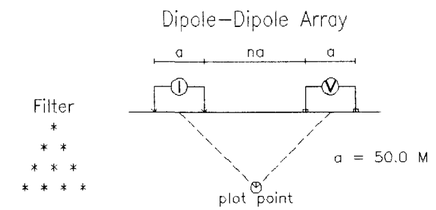
REMY BELANGER (GEOPHYSICAL CONTRACTOR)





Line 0400 E

Dipole–Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

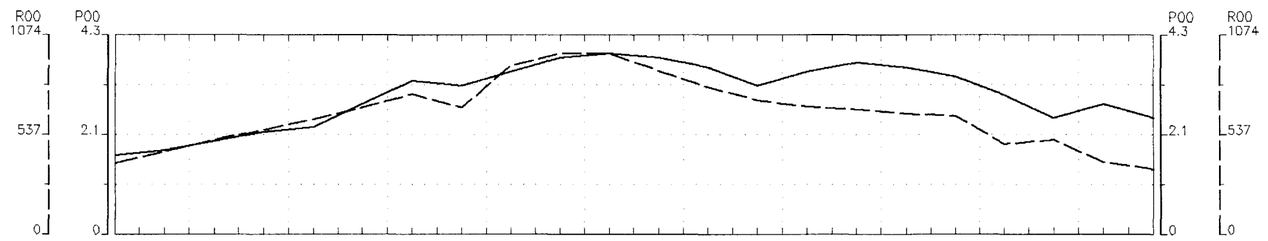
50 0 50 100 150 200 250
(metres)

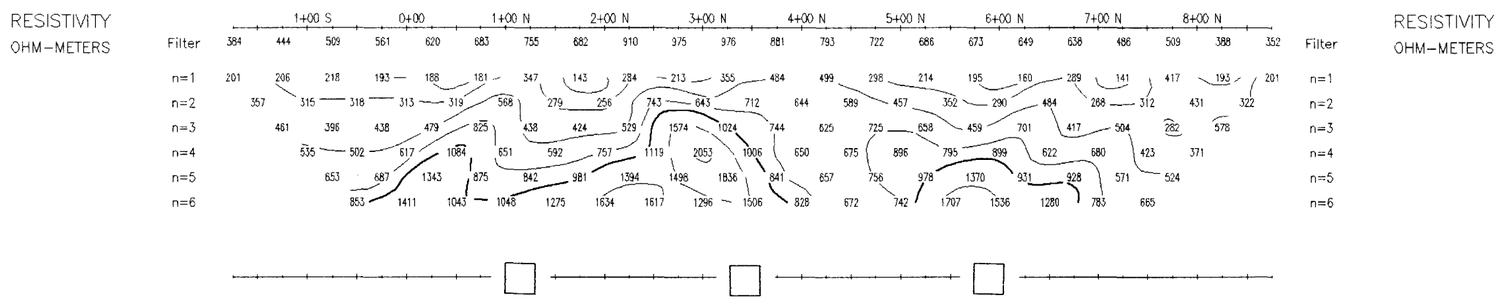
BARRICK GOLD CORPORATION

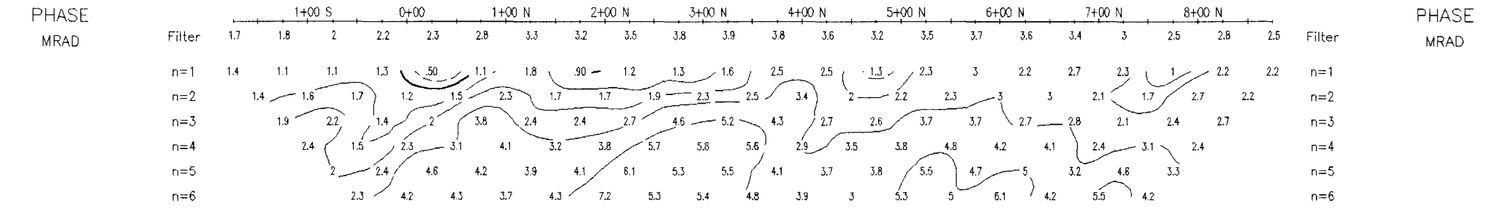
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/04
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

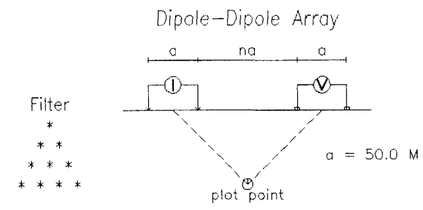






Line 0500 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

50 0 50 100 150 200 250
(metres)

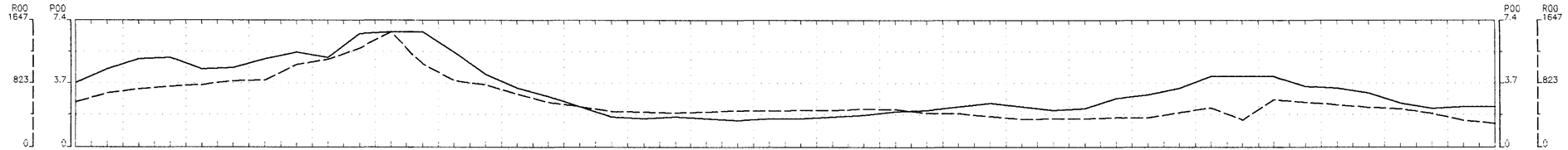
BARRICK GOLD CORPORATION

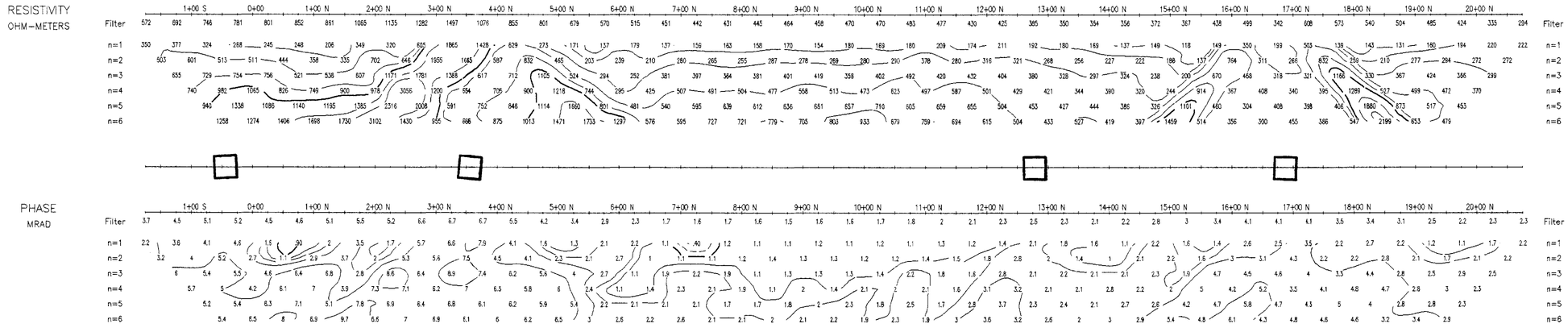
INDUCED POLARIZATION SURVEY
WEST BLOCK
HARKER TOWNSHIP – ONTARIO

Date: 96/07/04
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

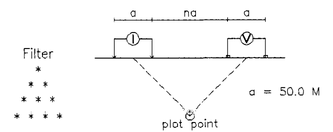
Geosoft Software for the Earth Sciences





Line 0600 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

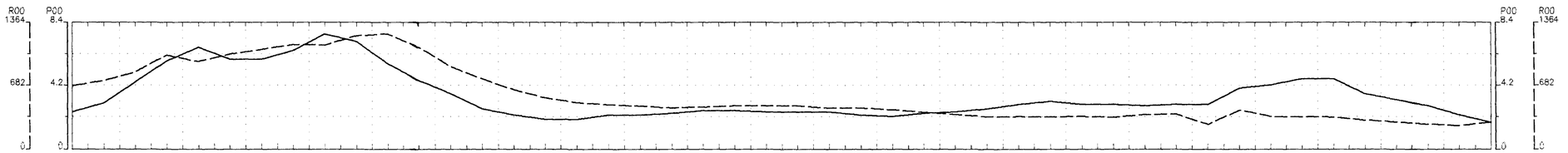
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

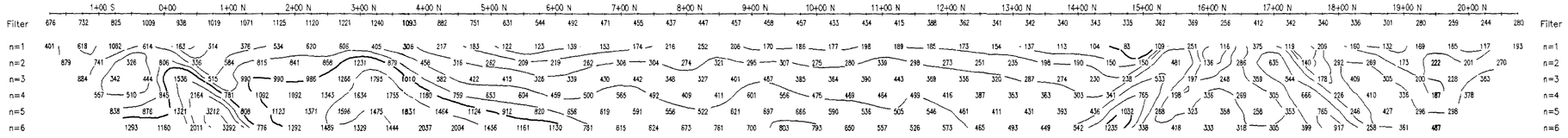
INDUCED POLARIZATION SURVEY
WEST BLOCK – SIMS
HARKER TOWNSHIP – ONTARIO

Date: 96/12/10
Interpretation: GERARD LAMBERT

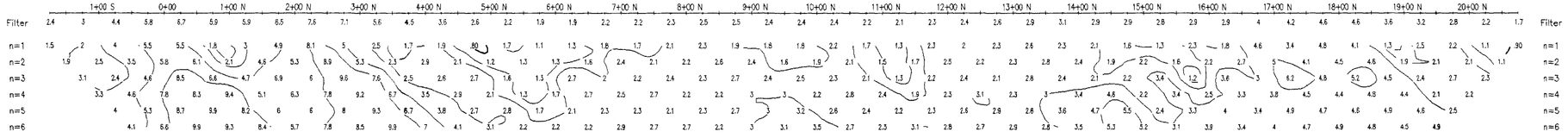
REMY BELANGER (GEOPHYSICAL CONTRACTOR)



RESISTIVITY
OHM-METERS



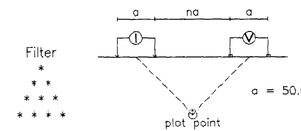
PHASE
MRAD



Geosoft Software for the Earth Sciences

Line 0700 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase *with no resistivity signature.*
- ▼ Low resistivity feature.

Scale 1:5000

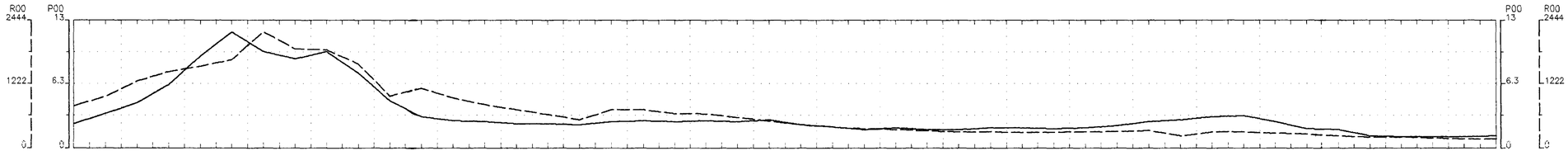
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

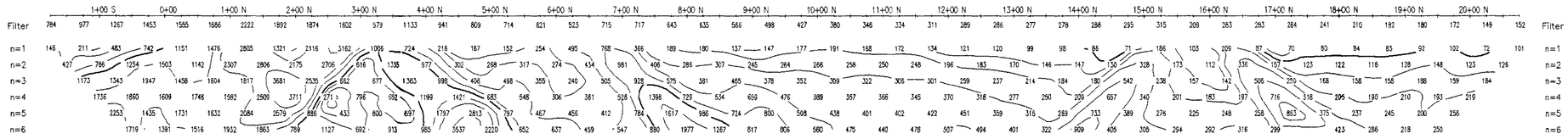
INDUCED POLARIZATION SURVEY
WEST BLOCK – SIMS
HARKER TOWNSHIP – ONTARIO

Date: 96/12/10
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

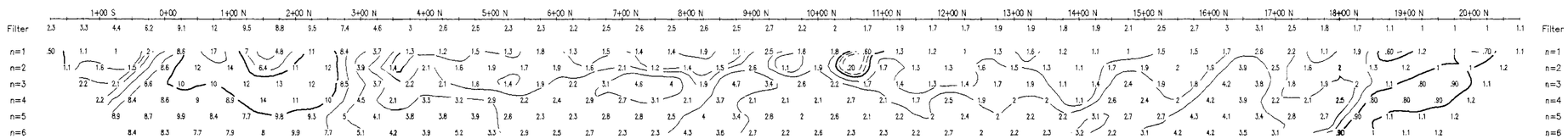


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

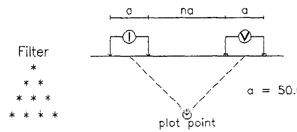
PHASE
MRAD



PHASE
MRAD

Line 0800 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

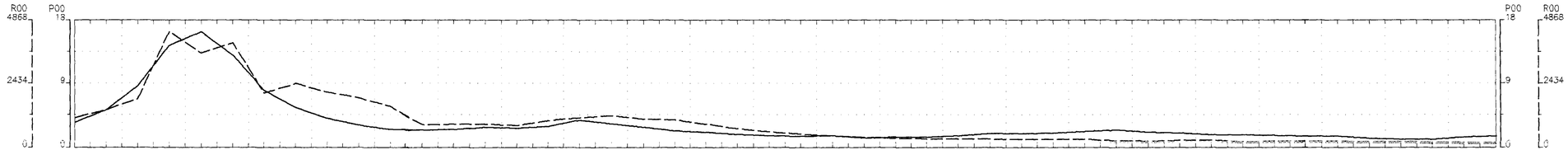
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

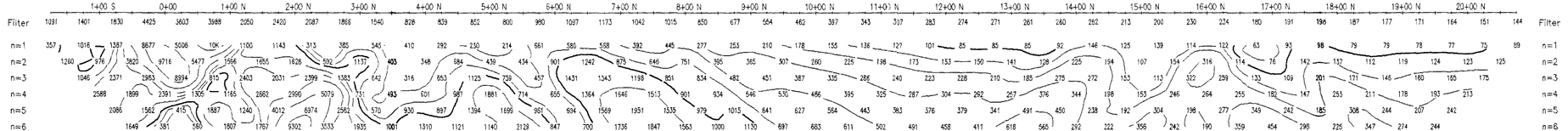
INDUCED POLARIZATION SURVEY
WEST BLOCK – SIMS
HARKER TOWNSHIP – ONTARIO

Date: 96/12/10
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

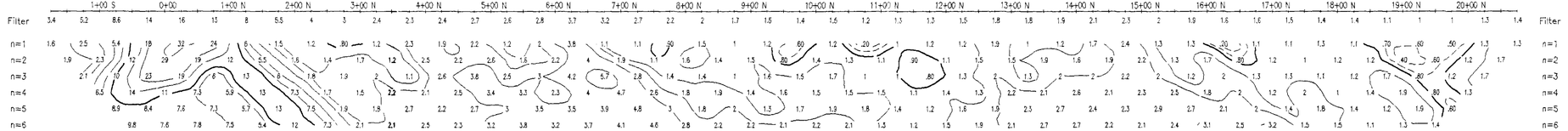


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

PHASE
MRAD

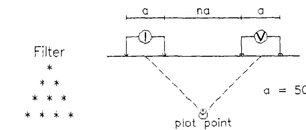


PHASE
MRAD

Geosoft Software for the Earth Sciences

Line 0900 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

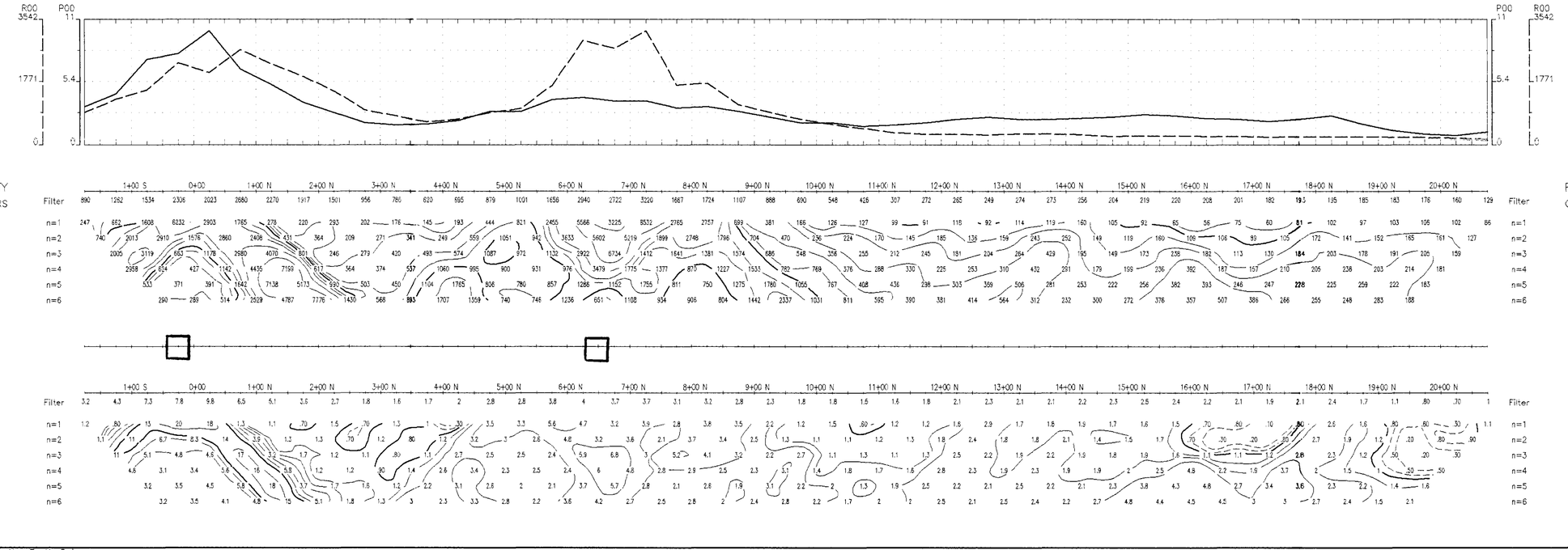
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK - SIMS
HARKER TOWNSHIP - ONTARIO

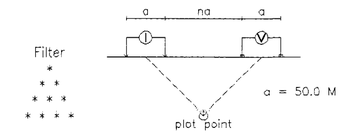
Date: 96/12/10
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)



Line 1000 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

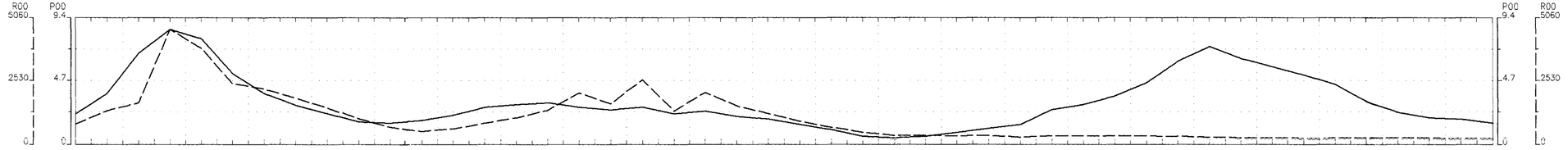
50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

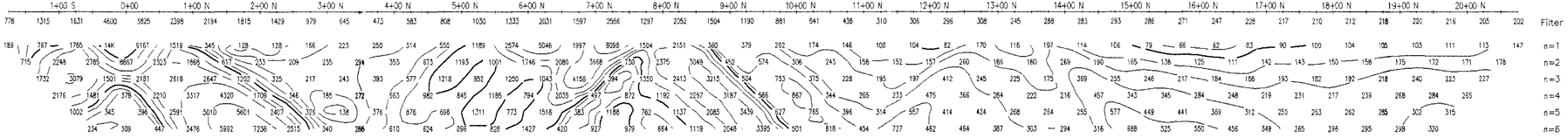
INDUCED POLARIZATION SURVEY
WEST BLOCK – SIMS
HARKER TOWNSHIP – ONTARIO

Date: 96/12/10
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

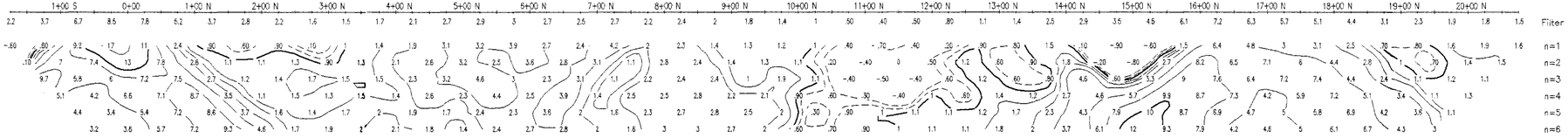


RESISTIVITY
OHM-METERS



RESISTIVITY
OHM-METERS

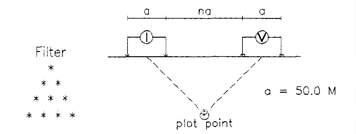
PHASE
MRAD



PHASE
MRAD

Line 1100 E

Dipole-Dipole Array



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

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ◘ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:5000

50 0 50 100 150 200 250
(metres)

BARRICK GOLD CORPORATION

INDUCED POLARIZATION SURVEY
WEST BLOCK - SIMS
HARKER TOWNSHIP - ONTARIO

Date: 96/12/10
Interpretation: GERARD LAMBERT

REMY BELANGER (GEOPHYSICAL CONTRACTOR)

Ontario ... and Mines

Performed on Mining Land

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

Assessment Files Research Imaging

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Questions about this colle
933 Ramsey Lake Road, Su

32D12SW0087 2.17403 HARKER

900

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

2.17403

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

Name Barrick Gold Corporation	**Client Number** 021852
Address 2, Chemin Bousquet, Route 395	**Telephone Number** (819) 759-8208
Preissac, Québec, J0Y 2E0	**Fax Number** (819) 759-3527
Name	**Client Number**
Address	**Telephone Number**
	Fax Number

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

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

Work Type Induced Polarization Survey and line cutting			**Office Use**
			Commodity
			Total $ Value of Work Claimed 37164
Dates Work Performed From 3 (Day) 06 (Month) 96 (Year)	To 26 (Day) 07 (Month) 96 (Year)		**NTS Reference**
Global Positioning System Data (if available)	**Township/Area** HARKER		**Mining Division** Larder Lake
	M or G-Plan Number G3643		**Resident Geologist District** Kirkland "

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

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

Name Rémy Bélanger Enr.	**Telephone Number** (819) 279-2206
Address C.P. 40, 329 boul. Evain, Evain, Québec, J0Z 1Y0	**Fax Number** (819) 797-6047
Name Gérard Lambert Géosciences	**Telephone Number** (819) 762-3182
Address 144 rue Georges, C.P. 2355, Rouyn-Noranda, QuébecJ9X 5A9	**Fax Number** (819) 762-5364
Name	**Telephone Number**
Address	**Fax Number**

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4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent		**Date** June 3rd, 1997
Agent's Address 2, Chemin Bousquet, Route 395, Preissac, J0Y 2E0	**Telephone Number** (819) 759-8208	**Fax Number** 759-3527

0241 (02/96)

Deemed Sent (14 /97 Rec'd Jun 6/97

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

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	L1184131	6	0	2,400	0	0
2	L641387	1	1,282	1,282	0	0
3	L641388	1	1,282	1,282	0	0
4	L641389	1	1,282	1,282	0	0
5	L641390	1	1,282	1,282	0	0
6	L641391	1	1,282	1,282	0	0
7	L641392	1	1,282	1,282	0	0
8	L641393	1	1,282	1,282	0	0
9	L641394	1	1,282	1,282	0	0
10	L641395	1	1,282	1,282	0	0
11	L641396	1	1,282	1,282	0	0
12	L641397	1	1,282	1,282	0	0
13	L641398	1	1,282	1,282	0	0
14	L641399	1	1,282	1,282	0	0
15	L641400	1	1,282	1,282	0	0
		Column Totals	SEE PAGE 2			

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

Signature of Recorded Holder or Agent Authorized in Writing | Date June 3rd, 1997

2.17403

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

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

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

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

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
RECEIVED ... JUN 6 ... 1:30	aug 4/97	
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Ontario Ministry of Northern Development and Mines

Assessment Work on Mining Land

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
L641401	1	1,282	1,282	0	0
L641402	1	1,281	1,281	0	0
L641403	1	1,281	1,281	0	0
L641404	1	1,281	1,281	0	0
L641405	1	1,281	1,281	0	0
L641406	1	0	800	0	0
L641410	1	0	800	0	0
L641411	1	0	800	0	0
L641412	1	0	800	0	0
L641413	1	0	800	0	0
L802656	1	1,281	1,281	0	0
L802657	1	1,281	669	612	0
L802658	1	1,281	400	881	0
L802659	1	1,281	400	881	0
L802668	1	1,281	1,281	0	0
L802669	1	1,281	779	502	0
L802671	1	1,281	400	881	0
L802672	1	1,281	400	~~881~~ 243	~~0~~ 638
L802673	1	1,281	400	~~881~~ 0	~~0~~ 881
L802674	1	1,281	400	~~881~~ 0	~~0~~ 881
				2.17403	
Column Totals		37,164	37,164	4000 ~~6,400~~	2400 ~~0~~

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LARDER LAKE
MINING DIVISION
JUN 3 1997
1:30

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JUN 17 1997
MINING LANDS BRANCH

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

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, the 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 the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Line cutting	51.7 km	$250.00	13,829.75
IP survey	21.1 km	$550.00	12,417.35
IP survey	18,550 meters	$550.00	10,916.68
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	37,164

Calculations of Filing Discounts: 2.17403

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 × 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.

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Certification verifying costs:

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

Signature: [signature] Date: June 3rd, 1997

0212 (02/96)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (888) 415-9846
Fax: (705) 670-5863

August 22, 1997

Gerald Panneton
BARRICK GOLD CORPORATION
2 CHEMIN BOUSQUET ROUTE 395
PRIESSAC, QUEBEC
J0Y-2E0

Dear Sir or Madam:

Submission Number: 2.17403

		Status
Subject: Transaction Number(s):	W9780.00625	Deemed Approval

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

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

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

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jerome_l@torv05.ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

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

Correspondence ID: 11245
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17403

Date Correspondence Sent: August 22, 1997 **Assessor:** Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00625	641387	HARKER	Deemed Approval	August 22, 1997

Section:
14 Geophysical IP

Correspondence to:

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

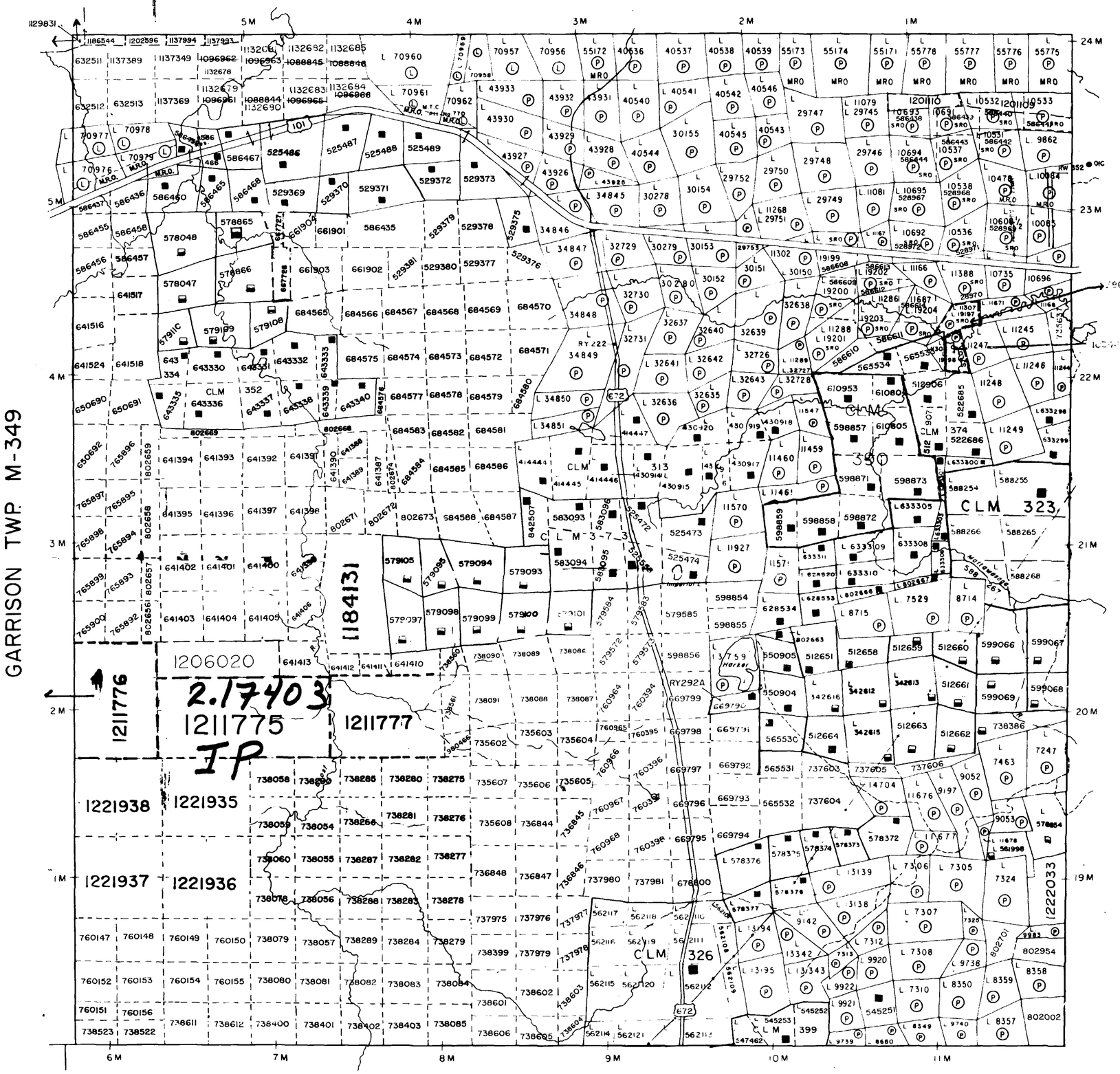
Recorded Holder(s) and/or Agent(s):

Gerald Panneton
BARRICK GOLD CORPORATION
PRIESSAC, QUEBEC

661904 661904

NOTICE OF FORESTY ACTIVITY
THIS TOWNSHIP/AREA FALLS WITHIN THE
ABITIBI MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE
CONTACTED AT: P.O. BOX 129 SWASTIKA ONT. P0K-1T0
705-642-3222

LAMPLUGH TWP. M-358



THE TOWNSHIP
OF

2.17403

HARKER

DISTRICT OF
COCHRANE

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	■ or (L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C
PATENTED S.R.O.	
LEASE - MINING RIGHTS ONLY	
ORDER - IN - COUNCIL	OIC

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No	Date	Disposition	File
L.U.P.	LAND USE PERMIT NO. 117130, PENDING APPLCATION UNDER PUBLIC LANDS ACT			

Ontario Ministry of Natural Resources

Ministry of Northern Development and Mines

Date

Map G-3643

CIRCULATED FEB. 26, 1990

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.

WEST BLOCK
GARRISON TWP
HARKER TWP
500 W
00 N/S
500 E
1000 E
1500 E
2000 E
12500 N
12000 N
11500 N
11000 N
10500 N
10000 N
9500 N
9000 N
T.L. 900N
BASE LINE 0+00N
Tie Line 9+00S
T.L. 900S
L 1700 W
L 1600 W
L 1500 W
L 1400 W
L 1300 W
L 1200 W
L 1100 W
L 1000 W
L 900 W
L 800 W
L 700 W
L 600 W
L 500 W
L 400 W
L 300 W
L 200 W
L 100 W
L 0
L 100 E
L 200 E
L 300 E
L 400 E
L 500 E
L 600
L 700
L 800
802669
802658
802657
802656
641394
641393
641392
641391
641390
641388
641395
641396
641397
641398
641399
641400
641401
641402
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641404
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641406
641413
641412
641411
802671

2500 E
3000 E
3500 E
4000 E
4500 E
5000 E

SIMS

12000 N

11000 N

10000 N

9000 N

SIMS

REEVES LAKE

NEWMEX

SIMS

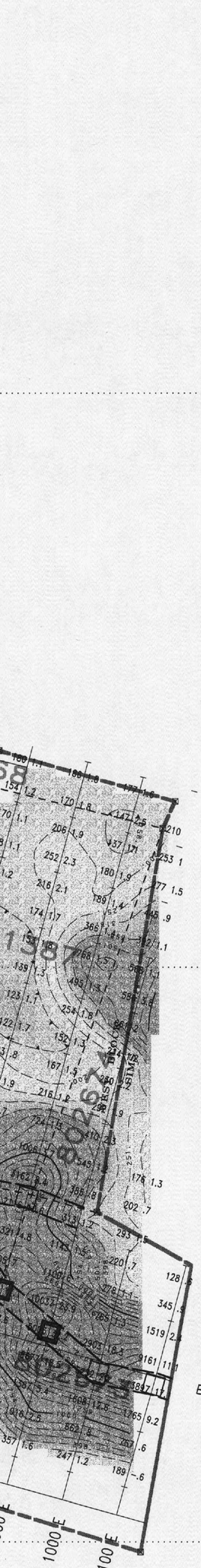
CANAMAX

IMPERIAL LAKE

BASE LINE 0+00N

L 1000 E

L 1100 E



N

LEGEND

DIPOLE-DIPOLE ARRAY

a=50m
n=1,2,3,4,5,6

Instruments: Phoenix IPT-1 Tx, Turbo V-4 Rx
Frequency: 1.0 Hz

Surveys by: Remy Belanger
Operator: R. Belanger

INTERPRETATION

Polarisation increase accompanied by a significant decrease of the apparent resistivity.
Semi-massive to massive sulphides, graphite. Normally will cause a conductor on an E.M. survey such as MaxMin or Input.

Polarisation increase without any significant decrease of the apparent resistivity.
Disseminated to stringer to semi-massive sulphides, discontinuous graphite, sphalerite-rich sulphides. Also altered, pyritized structures.
METALLIC MINERALS, MASSIVE MAGNETITE, NICACEOUS MINERALS.

Poorly defined polarisation increase with no apparent resistivity signature.
Small quantities of sulphides, narrow mineralised veins, sometimes noisy readings, due to contact problems. MAGNETITE, CLAY OR MICACEOUS MINERALS.

Resistivity (Ohm-metres)	Polarisation (mRadians)
231.	8.6
318.	4.2
377.	1.6
418.	0.1
467.	0.1
472.	0.5

Apparent Resistivity at N=1 (Ohm-meters)

1677
915
634
487
389
312
257
212
175
140
112
86
60
33

2.17403

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32D12SW0087 2.17403 HARKER 210

Scale 1:5,000

75m 0 150m 300m

WEST BLOCK

BARRICK

BARRICK GOLD CORPORATION
(Eastern Canada Exploration)

HOLT McDERMOTT PROJECT

INDUCED POLARIZATION SURVEY

Contours of the apparent resistivity

Data processing and interpretation by:
Gerard Lambert, P.Eng.

LAMBERT GEOSCIENCES LTD.

PROJECT NO. 612
RANGE(S)
TOWNSHIP(S) HARKER & HOLLOWAY, Ont.
N.T.S. 32 D/5, 32 D/12
NO INF.

August 1996

SCALE 1:5,000

0 100 200m

INGENIEUR-ENGINEER
GERARD LAMBERT
33174
QUEBEC

500 W
00 N/S
500 E
1000 E
1500 E
2000 E
12500 N
12000 N
11500 N
11000 N
10500 N
10000 N
9500 N
9000 N
GARRISON TWP
HARKER TWP
WEST BLOCK
T.L. 900N
BASE LINE 0+00N
Tie Line 9+00S
T.L. 900S
L 1700 W
L 1600 W
L 1500 W
L 1400 W
L 1300 W
L 1200 W
L 1100 W
L 1000 W
L 900 W
L 800 W
L 700 W
L 600 W
L 500 W
L 400 W
L 300 W
L 200 W
L 100 W
L 0
L 100 E
L 200 E
L 300 E
L 400 E
L 500 E
L 600 E
L 700 E
L 800 E
L 900 E
802669
641394
641393
641392
641391
641390
641389
641388
641395
641396
641397
641398
802658
802657
802656
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641412
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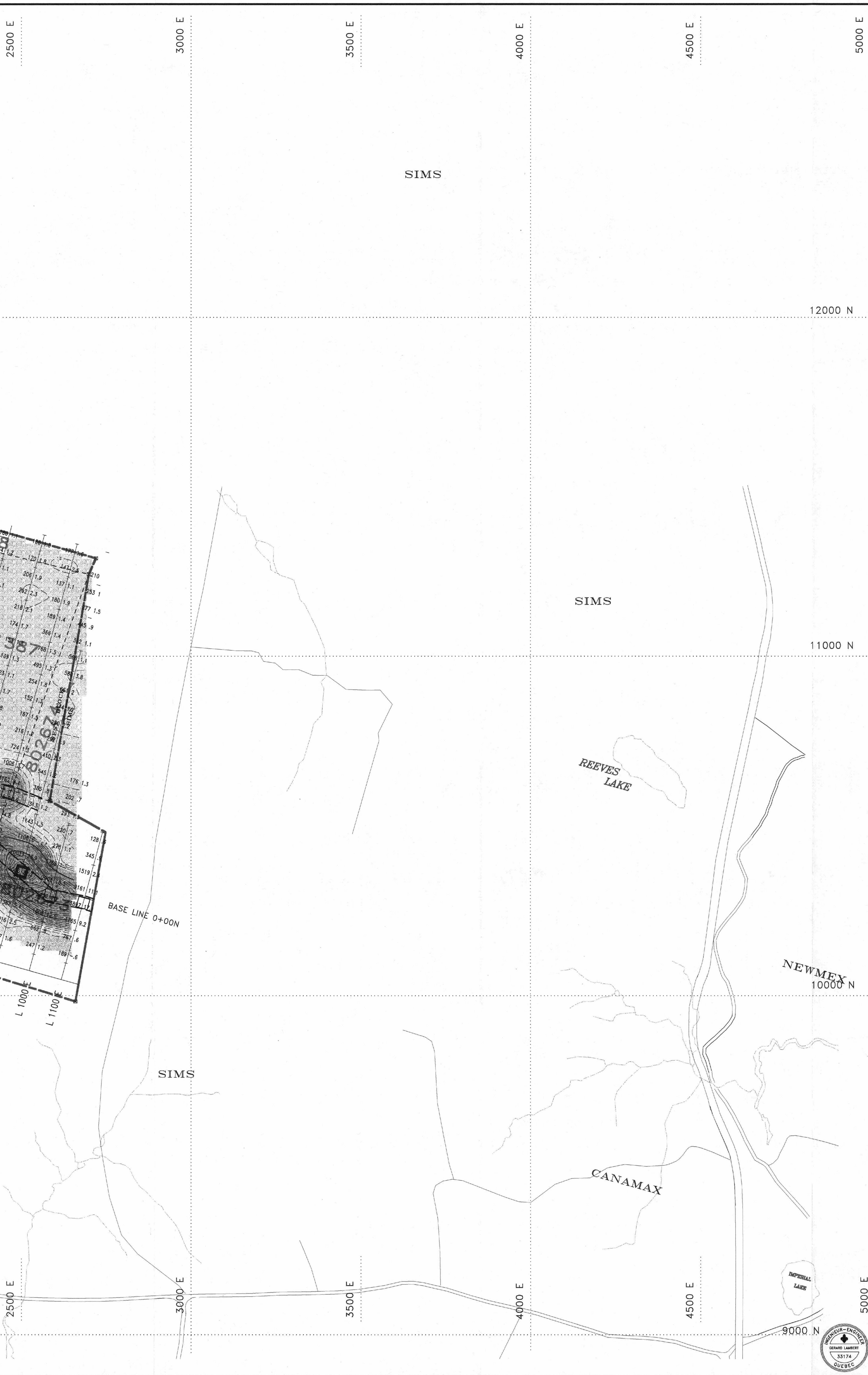

N

LEGEND

DIPOLE–DIPOLE ARRAY

a=50m
n=1,2,3,4,5,6

PLOT POINT

Instruments: Phoenix IPT–1 Tx, Turbo V–4 Rx
Frequency: 1.0 Hz

Surveys by: Remy Belanger
Operator: R. Belanger

INTERPRETATION

- ■ **Polarisation increase accompanied by a significant decrease of the apparent resistivity.** Semi–massive to massive sulphides, graphite. Normally will cause a conductor on an E.M. survey such as MaxMin or Input.
- ◘ **Polarisation increase without any significant decrease of the apparent resistivity.** Disseminated to stringer to semi–massive sulphides, discontinuous graphite, sphalerite–rich sulphides. Also altered, pyritized structures. METALLIC MINERALS, MASSIVE MAGNETITE, MICACEOUS MINERALS.
- □ **Poorly defined polarisation increase with no apparent resistivity signature.** Small quantities of sulphides, narrow mineralized veins, sometimes noisy readings, due to contact problems. MAGNETITE, CLAY OR MICACEOUS MINERALS.

Resistivity (Ohm–metres)	Polarisation (mRadians)
231.	8.6
318.	4.2
377.	1.6
418.	0.1
467.	0.1
472.	0.5

11.4
8.9
7.3
6.2
5.2
4.3
3.5
2.7
1.9
0.9
–0.0
–1.1
–2.7
–5.2

Phase angle (I.P. effect)
at N=1 (milliradians)

2.17403

Scale 1:5,000
75m 0 150m 300m

WEST BLOCK

BARRICK
BARRICK GOLD CORPORATION
(Eastern Canada Exploration)

HOLT McDERMOTT PROJECT
INDUCED POLARIZATION SURVEY
Contours of the phase (I.P. effect)

Data processing and Interpretation by:
Gerard Lambert, P.Eng.

LAMBERT GEOSCIENCES LTD.

PROJECT NO. 612
RANGE(S)
TOWNSHIP(S) HARKER & HOLLOWAY, Ont.
N.T.S. 32 D/5, 32 D/12
NO INF.

INGENIEUR–ENGINEER
GERARD LAMBERT
33174
QUEBEC

August 1996
SCALE 1:5,000
0 100 200m