

**DUKE PROPERTY**

**ASSESSMENT REPORT  
ON  
GEOPHYSICAL SURVEYING AND DIAMOND DRILLING**

**N.T.S.  
92 I/3**

**LATITUDE 50° 11' N, LONGITUDE 121° 12' W**

**NICOLA MINING DIVISION,  
CENTRAL BRITISH COLUMBIA**

**Prepared for:**

**Freegold Ventures Ltd.  
2303 West 41st Avenue  
VANCOUVER, British Columbia  
V6M 2A3**

**By:**

**Greg R. Thomson, P. Geo.**

**May 1, 2007**



## TABLE OF CONTENTS

SUMMARY	1
INTRODUCTION	2
PROPERTY DESCRIPTION AND LOCATION	2
ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY	2
HISTORY	5
REGIONAL GEOLOGY	5
PROPERTY GEOLOGY	7
MINERALIZATION	7
GEOPHYSICAL INDUCED POLARIZATION (I.P.) SURVEY	7
DIAMOND DRILLING	7
SAMPLE PREPARATION AND ANALYSES	9
INTERPRETATION AND CONCLUSIONS	9
RECOMMENDATION	9
CERTIFICATE OF AUTHOR	10
BIBLIOGRAPHY	11
STATEMENT OF EXPENDITURES	12

### LIST OF FIGURES

1	Location Map	3
2	Claim Map	4
3	Regional Geology Map	6
4	Geophysical Survey and Diamond Drilling Plan Map (1:2,000 scale)	At End

### APPENDICES

A	Geophysical Survey Report
B	Diamond Drill Hole Logs
C	Assay Certificates

## **SUMMARY**

Linecutting, induced polarization surveying and diamond drilling were performed on the DUKE mineral claim in central British Columbia. The field work was carried out between September 16, 2005 and September 9, 2006 on behalf of Freegold Ventures Ltd. (Freegold) of Vancouver, British Columbia.

The Duke property is approximately 31 km west of the town of Merritt. The Duke mineral property is comprised of one 42-cell (869.071 ha) map converted mineral claim, tenure number 510583 (Figure 2).

Hurley River Mines Ltd. found mineralized quartz feldspar porphyry at the Main Showing during 1962. The Duke property has undergone sporadic exploration, including geological mapping, geophysical and geochemical surveys and diamond drilling, since that time. A total of 1,524 metres of diamond drilling in 12 holes was completed during 1962 and 1963.

The Duke property is located within the Nicoamen Plateau of south-central British Columbia. Stratified volcanic and sedimentary rocks of the Mid to Late Cretaceous Spences Bridge Group are intruded by small Late Cretaceous or Eocene porphyritic intrusives of mafic or intermediate composition. Isolated remnants of Eocene Kamloops Group volcanics cap parts of the area.

The Main Showing at the Duke property contains disseminated chalcopryite hosted within quartz veins which crosscut a quartz feldspar porphyry. Pyrite and trace amounts of chalcopryite also occur within the surrounding wallrock volcanic rocks.

A total of 13.6 line km of I.P. surveying was performed on the Duke property between September 16 and 21, 2005. Northwesterly trending chargeability anomalies were delineated in the west-central part of the survey area.

A total of 273.4 metres of diamond drilling was completed in two holes between November 27 and December 5, 2005; this drilling was done to test two of the I.P. chargeability anomalies.

The results of the diamond drilling program show that the I.P. chargeability anomalies are due to the presence of disseminated pyrite.

The planned drilling program at the Duke property was not completed because of difficult weather, drilling conditions and time constraints.

Diamond drilling to test the remaining chargeability anomalies should be resumed at the Duke property when weather conditions are more favourable.

## **INTRODUCTION**

This report describes linecutting, induced polarization geophysical surveying and diamond drilling performed on the Duke project mineral claim in central British Columbia. This work was carried out on behalf of Freegold Ventures Ltd. (Freegold) of Vancouver, British Columbia.

Freegold has an option to acquire 70 % of the Duke mineral claim from Silver Quest Resources Ltd. (formerly Southern Rio Resources Ltd.) of Vancouver, British Columbia.

Freegold contracted Peter E. Walcott & Associates Limited to perform the induced polarization (I. P.) surveying. Freegold contracted Full Force Drilling Ltd. to perform the diamond drilling, and also contracted Greg Thomson, P.Geol. to perform geological core logging and sampling on the property.

## **PROPERTY DESCRIPTION AND LOCATION**

The Duke project mineral claim is located approximately 31 km west of the town of Merritt in south-central British Columbia (Figure 1). The project area is centred at 50° 11' N latitude and 121° 12' W longitude.

The Duke mineral property is comprised of one 42-cell (869.071 ha) map converted mineral claim, tenure number 510583 (Figure 2). The prior legacy claim was a 20 unit, 4-post, grid-system mineral claim, tenure number 239493 – the WOW #1 claim. This mineral claim has not been legally surveyed.

The I.P. surveying and diamond drilling that are the subject of this assessment report were performed within the WOW #1 mineral claim, tenure number 510583.

## **ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

The Duke property is located in south-central British Columbia, approximately 31 km west of the city of Merritt (Figure 1).

Logging roads and an old drill road provide local access to the property. Highway 8 is followed from Merritt westwards 30 km until a left turn is made onto the Dot Creek Ranch Cut Off Road. A left turn is made from the Cut Off Road onto the Manning Road; the Manning Road is then followed southwards to a point 200 metres beyond the 22 km marker, where a left turn is made onto a logging spur road. This spur road is followed for 0.8 km, at which point the old drill access road into the property leads to the right. The old drill access road is followed for a further 3.8 km southward and westward into the central property area.

The project area is within the Nicoamen Plateau of south-central British Columbia. Elevations in the property area range from about 1,370 metres to about 1,710 metres a.s.l. The terrain consists of a rolling plateau dissected by creeks with steep-sided valleys. Pine, fir, spruce, aspen, willow and alder trees grow in the property area. Many of the pine trees are dying because of the mountain pine beetle infestation. A veneer of glacial till covers the bedrock in most places, and outcrop exposure is sparse. Soils are poorly developed. Summer weather is dry with occasional showers, and winters are cold with moderate snow



**FREEGOLD VENTURES LIMITED**

Date: 10/10/2002

Author: G.T.

Office:

Drawing:

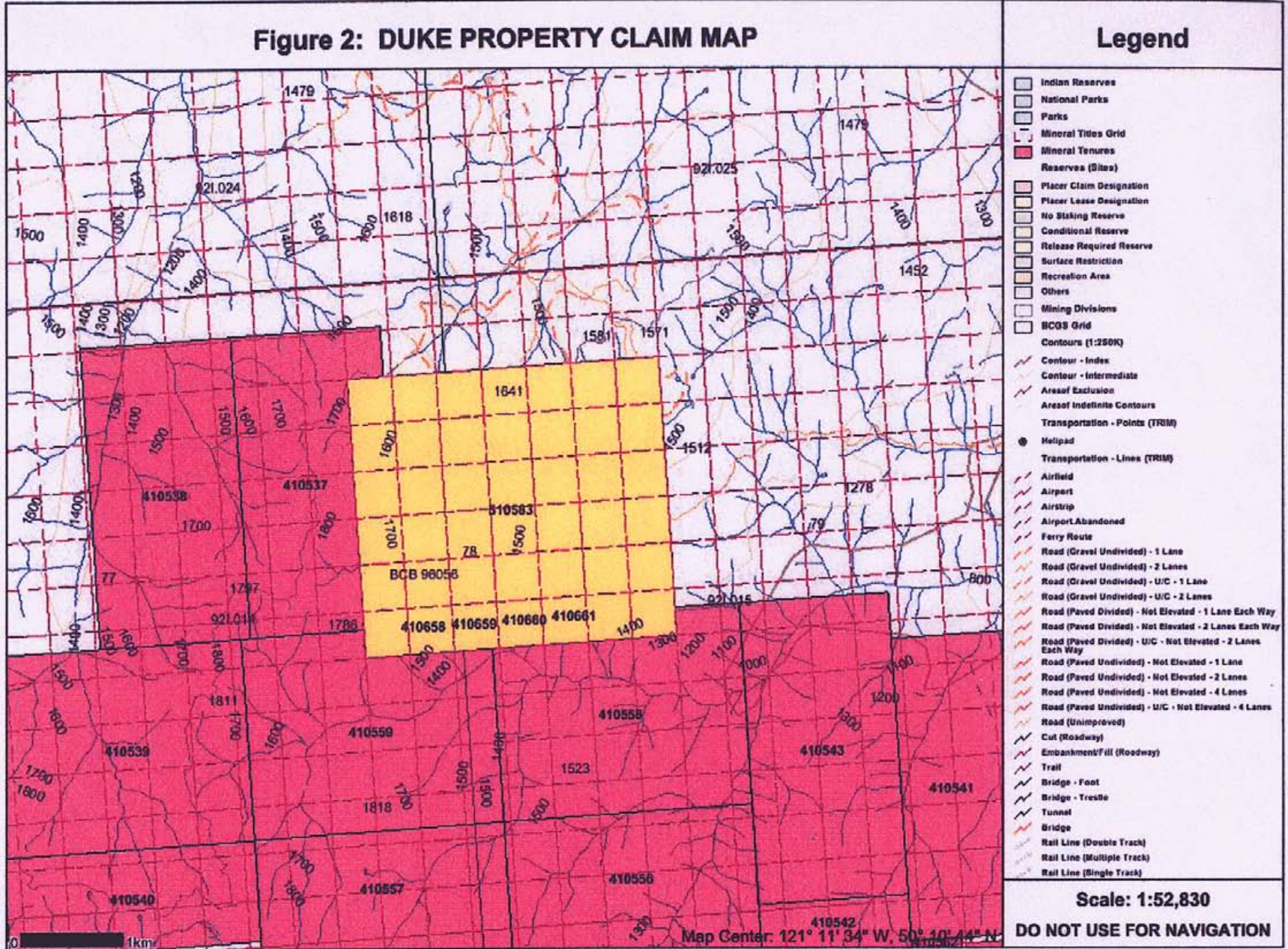
Scale: N.T.S.

**DUKE PROPERTY  
LOCATION MAP**

Projection: NAD83 - Zone 10

**FIGURE: 1**

**Figure 2: DUKE PROPERTY CLAIM MAP**



**Legend**

- Indian Reserves
- National Parks
- Parks
- Mineral Titles Grid
- Mineral Tenures
- Reserves (Sites)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Mining Divisions
- BCOS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Areas of Exclusion
- Areas of Indefinite Contours
- Transportation - Points (TRIM)
- Heliport
- Transportation - Lines (TRIM)
- Airfield
- Airport
- Airstrip
- Airport Abandoned
- Ferry Route
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes
- Road (Gravel Undivided) - U/C - 1 Lane
- Road (Gravel Undivided) - U/C - 2 Lanes
- Road (Paved Divided) - Not Elevated - 1 Lane Each Way
- Road (Paved Divided) - Not Elevated - 2 Lanes Each Way
- Road (Paved Divided) - U/C - Not Elevated - 2 Lanes Each Way
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes
- Road (Paved Undivided) - Not Elevated - 4 Lanes
- Road (Paved Undivided) - U/C - Not Elevated - 4 Lanes
- Road (Unimproved)
- Cut (Roadway)
- Embankment/Fill (Roadway)
- Trail
- Bridge - Foot
- Bridge - Trestle
- Tunnel
- Bridge
- Rail Line (Double Track)
- Rail Line (Multiple Track)
- Rail Line (Single Track)

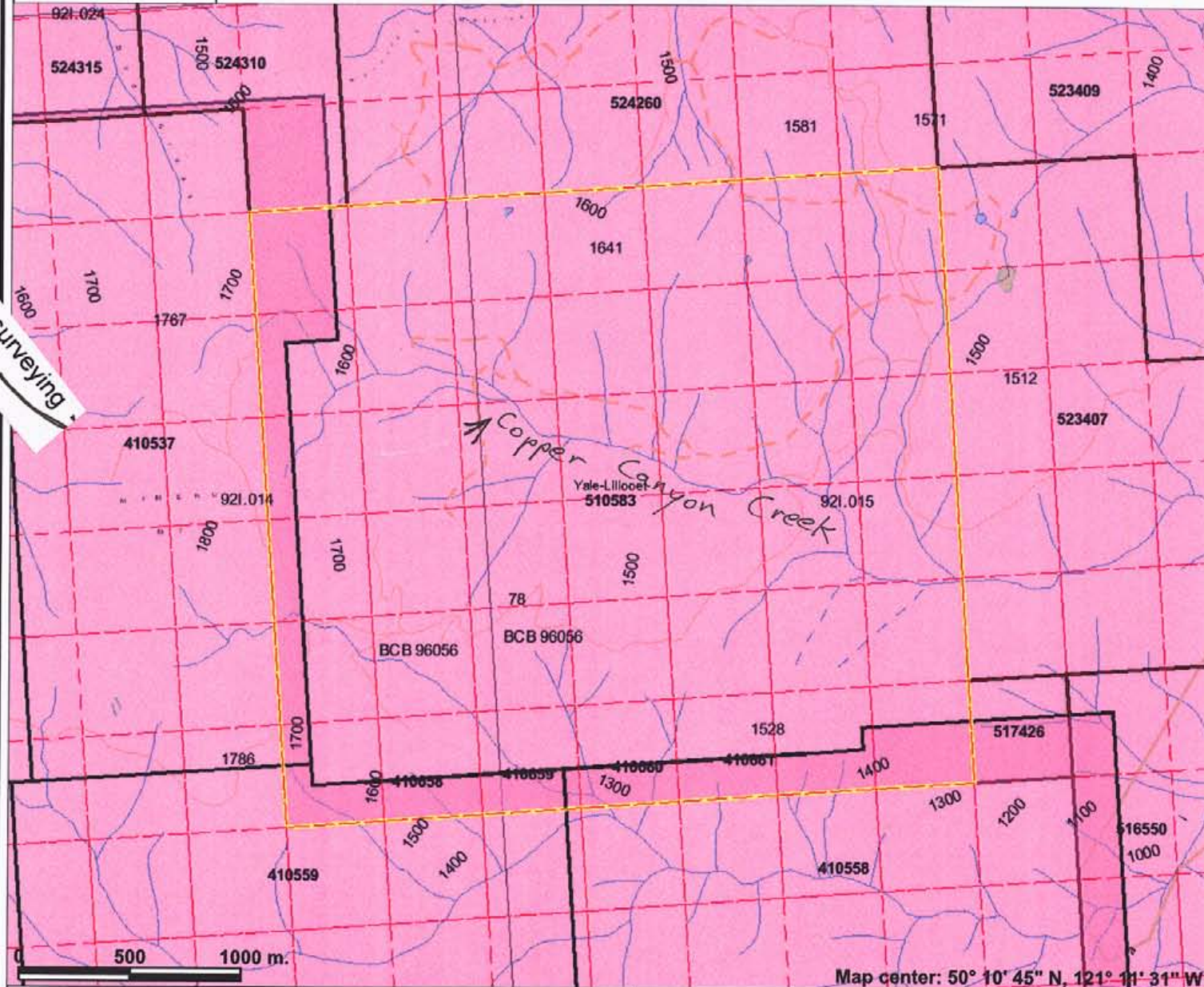
Scale: 1:52,830

**DO NOT USE FOR NAVIGATION**

Map Center: 121° 11' 34" W, 50° 10' 44" N

# Internet Mapping Framework

Area of geophysical surveying  
and diamond drilling



## Legend

- Indian Reserves
  - National Parks
  - Parks
  - Mineral Titles Grid (LRDW)
  - Mineral Tenures (Mineral - LRDW)
  - Mineral Claim
  - Mineral Lease
  - Reserves (Mineral - LRDW Sites)
  - Placer Claim Designation
  - Placer Lease Designation
  - No Staking Reserve
  - Conditional Reserve
  - Release Required Reserve
  - Surface Restriction
  - Recreation Area
  - Others
  - Integrated Cadastral Fabric
  - BCGS Grid
  - Contours (1:250K)
  - Contour - Index
  - Contour - Intermediate
  - Area of Exclusion
  - Area of Indefinite Contours
  - Annotation (1:20K)
  - Transportation - Points (TRIM)
  - Helipad
  - Transportation - Lines (TRIM)
  - Airfield
  - Airport
  - Airstrip
  - Airport.Abandoned
  - Ferry Route
  - Road (Gravel Undivided) - 1 lane
- Scale: 1:27,273

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

accumulations.

## **HISTORY**

The first claims covering the Duke copper showing were staked in the early 1960's by L. Fournier. Interest in the area had increased around that time due to the discovery of the Craigmont copper deposit near Merritt. Between 1962 and 1963, Hurley River Mines Ltd. drilled 12 holes totalling approximately 1,524 metres around Copper Canyon Creek. Geological mapping, soil sampling and magnetic and electromagnetic geophysical surveys were also completed. The drilling returned several intervals of >0.5 % copper over lengths of >30 metres. None of the core from this drilling has survived through to the present.

New Cinch Uranium Mines Ltd. conducted soil sampling and a magnetometer survey in 1969.

Noranda Exploration restaked the ground in 1979 and subsequently carried out geological mapping, soil geochemical surveys, and magnetic and electromagnetic surveys (Mathieson, 1980).

Pacific Sentinel Gold Corp. performed geochemical soil, silt and rock sampling on the MIME property in 1990. They delineated two copper-in-soil anomalies within the central property area. Eleven geochemical rock samples collected from within the area of the copper-in-soil anomalies contain from 158 to greater than 10,000 parts per million (ppm) copper (Lerliche, 1990). The central portion of the historic MIME property is now covered by the WOW #1 mineral claim.

Robert Weicker staked the WOW 31 mineral claim over the Main Zone at the Duke property in September 2000. Southern Rio Resources Ltd. (now Silver Quest) subsequently purchased a 100 % interest in the mineral claim.

Thomson carried out geological mapping and geochemical soil, stream sediment and rock sampling during 2002 (Thomson, 2002). He recommended follow-up I.P. surveying and diamond drilling.

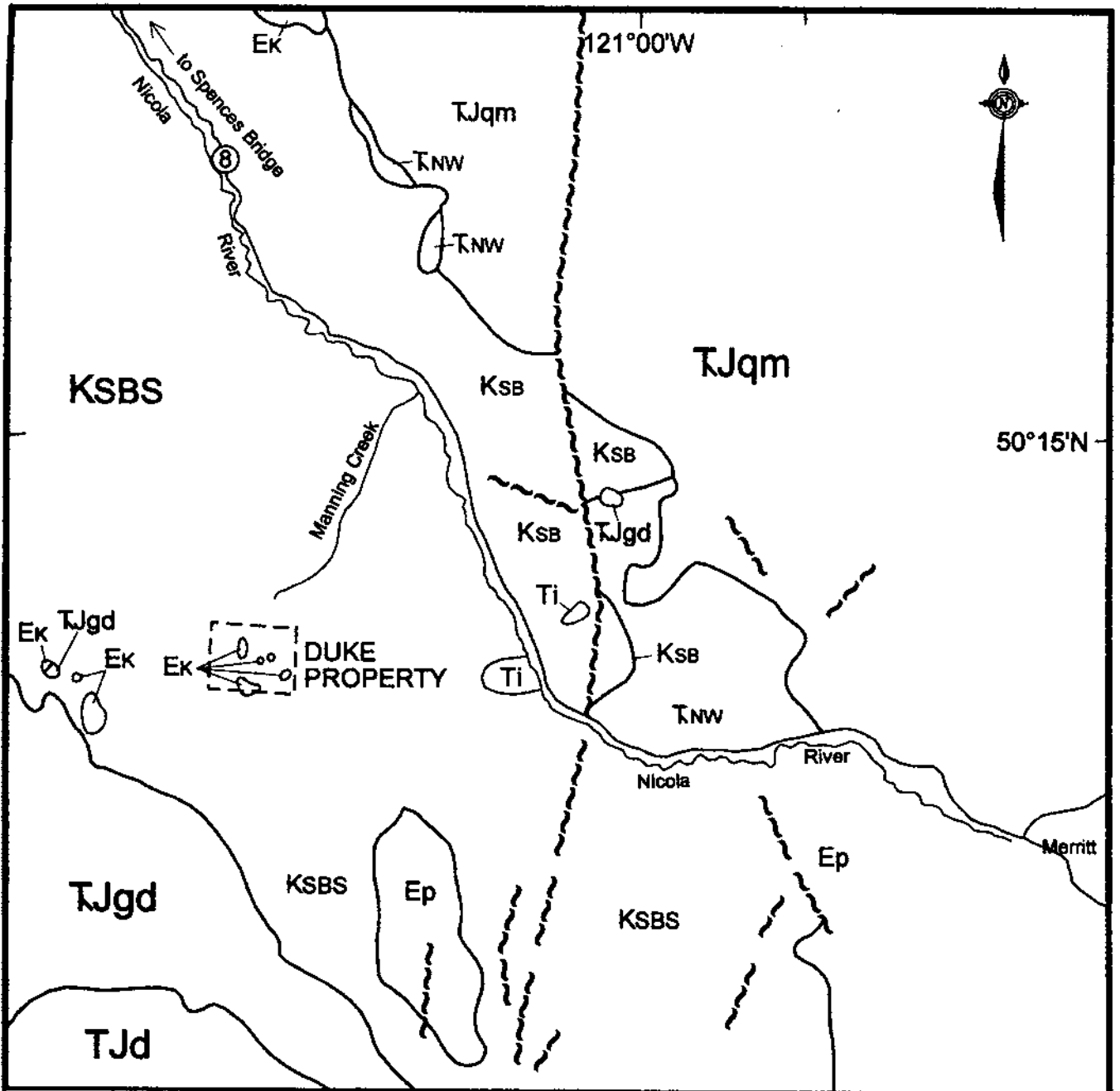
A total of 75.85 metres of diamond drilling was performed in November and December 2004. Nineteen core samples from this program contain from 36 to 551 ppm copper (Pawliuk, 2005). Pawliuk recommended further drilling, with the drilling to be performed in more favourable summer weather conditions.

## **REGIONAL GEOLOGY**

The Duke property is located within the Intermontane Belt. Igneous and sedimentary rocks of Triassic to Tertiary age underlie the region. These rocks form part of the Quesnel Terrane. The regional geology, from Monger and McMillan (1989), is shown on Figure 3.

Regionally extensive, stratified volcanic and volcanic-derived sedimentary rocks ranging in age from Late Triassic to Eocene cover much of the area. Volcanic rocks in the Duke property area have been assigned to the Mid to Late Cretaceous Spius Creek Formation, of the Spences Bridge Group. These volcanic rocks are intruded by the ?Late Cretaceous or Eocene porphyritic andesite-dacite stocks which host the Main Showing on the Duke property.





**LEGEND**

**MIocene? OR OLDER**

**Ti** Intrusives of intermediate composition

~~~~~ Fault

**EOCENE**

**EK** Kamloops Group basalt

~~~~~ Geologic Contact

**Ep** Princeton Group volcanics

Ⓢ Highway

**MIDDLE AND LATE CRETACEOUS - SPENCES BRIDGE GROUP**

**KSB** Intermediate volcanics, sediments

**KSBS** Spilus Creek Fm mafic volcanics

**TRIASSIC AND/OR JURASSIC**

**Tjgd, qm, d** Granodiorite, quartz monzonite, diorite

**TNW** Nicola Volcanics

Scale 1:250,000



**FREEGOLD VENTURES LTD.**

**DUKE PROPERTY  
REGIONAL GEOLOGY MAP**

Scale: 1:250,000

NTS: 92 I

Date: Jan. 2005

Figure: 3

Note: Geology after Monger and McMillan (1989)

Calc-alkaline type porphyry copper deposits have been mined in the region; these deposits are mainly hosted by the Late Triassic to Early Jurassic Guichon Creek Batholith (Casselmann et al., 1995; Carr, 1966).

Glacial ice movement in the property region was from north to south (Bobrowsky, Cathro and Paulen, 2002).

## **PROPERTY GEOLOGY**

Andesitic to basaltic volcanic rocks and feldspar (-quartz) porphyritic intrusives of andesite to dacite composition are the main rock units within the Duke property.

The andesite and basalt are medium greenish grey to dark grey, somewhat porphyritic and locally magnetic. They contain up to 2 % pistachio green epidote as spots up to 2 mm across, or as faint veinlets up to 1.5 mm wide. The rocks contain trace amounts to 2 % disseminated pyrite as blebby masses up to 3 mm across; limonite commonly occurs along weathered fracture surfaces. Local traces of disseminated chalcopyrite occur within the volcanic rocks.

Feldspar-quartz dacite porphyry of ? Late Cretaceous or Eocene age intrudes the andesitic and basaltic volcanic rocks within the property. Feldspar-quartz porphyry hosts mineralization at the Main Showing.

## **MINERALIZATION**

Disseminated chalcopyrite, pyrite and magnetite occur within the feldspar-quartz (dacite) porphyry at the Main Showing on the Duke property. Malachite and azurite coat fracture surfaces in the rock outcrop at the Main Showing area.

Local traces of disseminated chalcopyrite also occur within wallrock andesite nearby the Main Showing.

## **GEOPHYSICAL INDUCED POLARIZATION (I.P.) SURVEY**

Peter E. Walcott & Associates Limited performed 13.6 line km of I.P. surveying on the Duke property between September 16 and 21, 2005. Walcott's report on the I.P. surveying forms Appendix A.

Northwesterly trending chargeability anomalies were delineated in the west-central part of the grid area, south of Copper Canyon Creek.

## **DIAMOND DRILLING**

A total of 273.4 metres of diamond drilling was completed in two holes at the Duke property between November 27 and December 5, 2005. Full Force Drilling Ltd. of Westbank, British Columbia, performed the drilling using a Boyles JKS 1000 diamond drill rig. NTW-sized drill core was recovered.

The drill cores are stored in labelled wooden boxes that are stacked inside a storage facility in Lower Nicola, British Columbia.

Greg Thomson, P. Geo. supervised the diamond drilling. Geological logs of the drill cores are included as Appendix B. Certificates of analysis for the core samples form Appendix C.

#### **Drill hole 05-01**

Hole 05-01 was drilled to test an I.P. chargeability anomaly along grid line 9 North. There are similar chargeability anomalies on the adjacent I.P. survey lines, 8 + 50 N and 9 + 50 N (Appendix A). The hole was drilled at an inclination of minus 60 degrees along an azimuth of 240° (Figure ?? plan map).

The drill hole intersected andesitic basalt from 7.6 m to the end of the hole at 152.4 m depth. The rock is medium to dark greenish grey to grey, fine grained and contains up to 20 % pyroxene phenocrysts that are up to 5 mm across (Appendix B). The rock is weakly to moderately magnetic. Off white chalcedony fills amygdules and lines fracture surfaces. Pale grey calcite forms rare hairline veinlets throughout. The rock is locally chlorite-altered.

Seven core samples from between 78.11 m and 152.4 m depth contain from 44 to 97 parts per million (ppm) copper, from 0 to 1.0 ppm silver and from 0.009 to 0.032 ppm gold (Appendices B, C).

#### **Drill hole 05-02**

This hole was drilled to test an I.P. chargeability anomaly along grid line 10 N. The anomaly area is across Copper Canyon Creek from the Main Showing area on the Duke property (Figure??).

The drill hole intersected andesitic basalt from 10.7 m to 44.9 m depth. This rock is similar to that intersected in hole 05-01, except that it is moderately siliceous below 24.4 m depth. The magnetite content increases with increasing depth down the hole.

From 44.9 m to 59.1 m depth the hole intersected fine grained, siliceous feldspar porphyry. The porphyry is non-magnetic and contains only trace amounts of pyrite.

From 59.1 m to 67.2 m depth moderately siliceous, moderately magnetic andesitic basalt was cored. The rock contains patches of tan-pink potassic alteration minerals between 66.75 and 67.3 m depth; this interval also contains traces of fine grained pyrite and chalcopryite, at the contact between the andesitic basalt wallrock and the underlying feldspar porphyry (Appendix B).

From 67.2 m to 121.0 m depth feldspar porphyry with pale grey plagioclase phenocrysts and traces of disseminated pyrite was recovered. Chalcopryite fills fine fractures from 67.2 to 68.1 m depth, and also occurs along hairline fractures from 95.1 to 99.5 m depth; chalcopryite locally occurs within chalcedonic veinlets up to 3 mm wide from within this interval. Minor mafic dykes crosscut the feldspar porphyry.

From 65.2 m to 66.75 m depth the core contains 888 ppm copper, 1.1 ppm silver and 0.035 ppm gold across 1.55 m (Appendices B and C). From 66.75 to 68.1 m depth the core contains 666 ppm copper, 0.8 ppm silver and 0.050 ppm gold (Appendices B and C). Five core samples were collected across the interval from 94.8 to 101.5 m depth. These contain from 429 to 739 ppm copper, from 0.7 to 1.0 ppm silver and from 0.020 to 0.045 ppm gold

(Appendices B and C).

### **SAMPLE PREPARATION AND ANALYSES**

The writer geologically logged the drill core samples. Selected intervals of core were then split lengthwise using a Longyear wheel-type coresplitter. The core samples were bagged, and then shipped to ALS Chemex Labs Ltd. in North Vancouver, British Columbia.

The samples were analyzed for copper, silver and 32 other elements by aqua regia digestion ICPAES. Gold was analyzed by fire assay fusion using a 50 gram sample weight.

Analytical certificates form Appendix C. Geological logs of the diamond drill cores are presented in Appendix B.

### **INTERPRETATION AND CONCLUSIONS**

The results of the diamond drilling program show that the I.P. chargeability anomalies are due to the presence of disseminated pyrite.

Low grade copper mineralization occurs within andesitic basalt of the Spences Bridge Group, and also occurs within ?Late Cretaceous or Eocene age feldspar porphyry that intrudes the volcanic rocks within the property area.

Only two holes out of a planned four hole program were drilled because of difficult weather and time constraints.

### **RECOMMENDATION**

Diamond drilling should be resumed at the Duke property, to test the two remaining I.P. chargeability anomalies, when weather conditions are more favorable. This work should be planned for early summer, when spring run-off waters are available from nearby streams.

Respectfully submitted,




Greg R. Thomson, P. Geo.

## CERTIFICATE of AUTHOR

I, Gregory R. Thomson, do state that:

1. I reside at Unit 40 – 21928 – 48<sup>th</sup> Avenue Langley, British Columbia, V3A 8H1.
2. I have worked as a mineral exploration geologist since 1970. The majority of my work experience has been in the province of British Columbia.
3. I hold a Bachelors of Science degree from the University of British Columbia (1970).
4. I was employed as a Senior Project Geologist with Teck Exploration Limited of Vancouver, British Columbia (1989 – 2000).
5. I am a registered Professional Geoscientist in the Province of British Columbia.

Dated this 1 Day of May, 2007.



**Greg R. Thomson, P.Ge.**



## **BIBLIOGRAPHY**

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Pawliuk, D.J. (2005) Duke property, assessment report on diamond drilling; prepared for Freegold Ventures Limited, B.C.M.E.M.P.R. assessment report number 27,827

Thomson, G.R. (2002) Geological and geochemical report on the WOW # 1 mineral claim; report prepared for Southern Rio Resources Ltd.

### STATEMENT OF EXPENDITURES

|  |  |              |                    |
|--|--|--------------|--------------------|
| Professional Fees/Salaries<br><i>Greg Thomson</i>                  |  |              | \$ 3,870.00        |
| Linecutting  |  |              | \$ 23,906.00       |
| I.P. surveying<br><i>Peter E. Walcott &amp; Associates Limited</i> |  |              | \$ 41,707.00       |
| Drilling:  | <i>Full Force Diamond Drilling Ltd.</i>    | \$ 82,858.00 |                    |
|  | <i>Support Contractors (water hauling)</i> | \$ 20,960.00 | \$ 103,818.00      |
| Drafting/Report Preparation/Assays/Freight                         |  |              | <u>\$ 2,000.00</u> |
|  | Total Project Costs:                       |              | \$ 175,301.00      |

**APPENDIX A**

**GEOPHYSICAL SURVEY**



**A GEOPHYSICAL REPORT**

**ON**

**INDUCED POLARIZATION SURVEYING**

**Duke Property  
Nicola M.D., B.C.  
50° 11'N, 121° 12'W  
N.T.S. 921/3**

**Claims surveyed: WOW #1**

**Survey Dates:  
September 16<sup>th</sup> – 21<sup>st</sup>, 2005  
October 22<sup>nd</sup> – 30<sup>th</sup>, 2005**

**For**

**FREEGOLD VENTURES LIMITED**

**Vancouver, British Columbia**

**BY**

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**Vancouver, British Columbia**

**DECEMBER 2005**

## TABLE OF CONTENTS

|                             | <u>Page</u> |
|-----------------------------|-------------|
| INTRODUCTION .....          | 3           |
| PURPOSE .....               | 4           |
| SURVEY SPECIFICATIONS ..... | 5           |
| DISCUSSION OF RESULTS ..... | 7           |

### APPENDIX

Personnel Employed on Survey  
Certification

### ACCOMPANYING MAPS –Scale 1:2,500

Apparent resistivity & chargeability pseudo sections  
Lines 7,8,8.5,9,9.5,10,10.5,11,12,13&14

Modeled resistivity & chargeability responses                   “     “

## **INTRODUCTION.**

Between September 16<sup>th</sup> and 21<sup>st</sup>, 2005 Peter E. Walcott & Associates Limited undertook induced polarization (I.P.) surveying over part of the Duke property located some 31 kilometres west of Merritt, B.C., for Freegold Ventures Limited.

The survey was carried out over a grid established by line cutters contracted by Freegold, and consisted of seven N 60° traverses over an area where in the 60's intersections of up to 58 metres of 8.63% copper were purportedly reported from drilling.

Measurements – first to sixth separation – of apparent chargeability – the I.P. response parameter – and resistivity were made on these 50 metre separated traverses using the pole-dipole technique with a 25 metre dipole.

As a result of the high chargeability response obtained over the western portion of these lines the grid on 100 metre centres was extended to the west, and 5 lines were added, two to the south and three to the north.

The data are presented on individual line plots as discussed in this report.

**PURPOSE.**

The purpose of the survey was to ascertain the I.P. response – the chargeability – of the reported mineralization, should it exist, and to use this response in an effort to trace and outline additional mineralization prior to further investigation by diamond drilling.

## SURVEY SPECIFICATIONS.

### Induced Polarization survey

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which are manufactured by Iris Instruments of Orleans, France.

The system consists basically of three units, a receiver (Iris), transmitter (Iris) and a motor generator (Generac). The transmitter, which provides a maximum of 4.0 kw d.c. to the ground, obtains its power from a 4 kw 60 c.p.s. single phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes  $C_1$  and  $C_2$ , the primary voltages (V) appearing between any two potential electrodes,  $P_1$  through  $P_7$ , during the "current-on" part of the cycle, and the apparent chargeability, ( $M_a$ ) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity ( $\rho_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode,  $C_1$ , and the potential electrodes,  $P_1$  through  $P_7$ , are moved in unison

### SURVEY SPECIFICATIONS cont'd

along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode,  $C_2$ , is kept constant at "infinity". The distance, "na" between  $C_1$  and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

The elevation and horizontal distance measurements were obtained by using a handheld laser and a reflective target. The laser, a Laser Ace 300, was manufactured by MDL ((Measurement Device Ltd.) of Aberdeen, Scotland.

On this survey a 25 metre dipole was employed and first to sixth separation readings were obtained. In all some 12.4 kilometres of I.P. traversing were completed.

#### Data Presentation.

The I.P. data are presented as individual pseudo section plots of apparent chargeability and resistivity at a scale of 1:2500. Plots of the 21 point moving filter – illustrated on the pseudo section – for the above were also displayed in the top plot window to better show the location of the anomalous zones.

Two dimensional smooth model inversion of the resistivity and chargeability was carried out using the Geotomo RES2DINV Algorithm, an algorithm developed by Loke et-al. This algorithm uses a 2-D finite element method and incorporates topography in modeling resistivity and I.P. data. Nearly uniform starting models are generated by running broad moving-average filters over the respective lines of data. Model resistivity and chargeability properties are then adjusted iteratively until the calculated data values match the observed as closely as possible, given constraints which keep the model section smooth. The smooth chargeability and resistivity models were then imported into Geosoft format for presentation at the same scale of 1:2500 on the topographic profile. A slight discrepancy can be observed between the measured and modeled plots as the former are processed in Geosoft which assumes horizontal distances for the station separation.

## **DISCUSSION OF RESULTS.**

It should be noted here that as the anomalies obtained on this survey were tested by diamond drilling as to their causative sources with less than encouraging results, the writer did not see the need to go into great detail on the results of the survey.

The anomalous zones are clearly discernible on the respective pseudo sections and modeled chargeability and resistivity sections.

Four drill holes were spotted to test the chargeability anomalies using the available access roads without making new roads as no permit was thereby required. While these locations, as listed below, were not necessarily the best for properly testing the chargeability responses, it was felt that they were adequate for explaining the causative sources.

- DDH No. 1    10U 0628023 5559178 Az =240 Dip = 50  
Hole is located 16.4m (240Az) from 625E on Line 9N
- DDH No. 2    10U 0628001 5559253 Az = 240 Dip = 50  
Hole is located 13.7m (240 Az) from 650E on Line 9.5N.
- DDH No. 3    10U 0627686 5559384 Az = 60 Dip = 60  
Hole is located 22.4m (330 Az) from 475E on Line 12N
- DDH No. 4    10U 0628277 5559559 AZ = 60 DIP = 60  
Hole is located 46.7m (150 Az) from 1075E on Line 11N

Only holes 1 & 2 were completed with pyrite as the causative source of the chargeability response before the onslaught of winter curtailed the drill programme.

**DISCUSSION OF RESULTS cont'd**

Hole No. 1 was collared at 0628011, 5559176 and drilled at minus 60° while hole No. 2 was moved northwards as the cat could not get up the hill as it had no winter cleats. Its new location was 0627989, 5559307 and drilled at minus 55° at an azimuth of 60.

**Respectfully submitted,**

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**Peter E. Walcott, P.Eng.  
Geophysicist**

**Vancouver,  
British Columbia**

**December 2005**



**APPENDIX**



**PERSONNEL EMPLOYED ON SURVEY**

| <b>Name</b>      | <b>Occupation</b>        | <b>Address</b>   | <b>Dates</b>  |
|------------------|--------------------------|--|---|
| Peter E. Walcott | Geophysicist             | Peter E. Walcott & Associates Limited<br>506-1529 W, 6 <sup>th</sup> Ave.<br>Vancouver, B.C. | Aug. 2 <sup>nd</sup> – 5 <sup>th</sup><br>Sept. 30 <sup>th</sup> ,<br>Nov. 24 <sup>th</sup> ,<br>Dec. 29 <sup>th</sup> , 2005 |
| A. Walcott       | “                        | “  | Nov. 24 <sup>th</sup> – 25 <sup>th</sup> ,<br>2005  |
| M. Welz          | “                        | “  | Sept. 16 <sup>th</sup> – 21 <sup>st</sup> , 05  |
| A. Cochrane      | “                        | “  | Oct. 22 <sup>nd</sup> – 30 <sup>th</sup> , 05   |
| M. Henderson     | Geophysical<br>Operator  | “  | Sept. 16 <sup>th</sup> – 21 <sup>st</sup> , 05  |
| Peter Charlie    | “                        | “  | Oct. 22 <sup>nd</sup> – 30 <sup>th</sup> , 05“  |
| D. Henderson     | Geophysical<br>Assistant | “  | Sept. 16 <sup>th</sup> – 21 <sup>st</sup> , 05  |
| J. Welz          | “                        | “  | Sept. 16 <sup>th</sup> – 21 <sup>st</sup> , 05,   |
| N. Young         | “                        | “  | Sept. 16 <sup>th</sup> – 21 <sup>st</sup> ,<br>Oct. 22 <sup>nd</sup> – 30 <sup>th</sup> , 05                                  |
| J. Desfosses     | “                        | “  | “   |
| S. Cruikshank    | “                        | “  | Oct. 22 <sup>nd</sup> – 30 <sup>th</sup> , 05   |
| B. Lajeunesse    | “                        | “  | “   |
| J. Walcott       | Report Prep.             | “  | Dec. 29 <sup>th</sup> , 2005  |

**CERTIFICATION.**

I, Peter E. Walcott, of 605 Rutland Court, Coquitlam, British Columbia, hereby certify that:

1. I am graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practicing my profession for the last forty three years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct nor indirect, in Freegold Ventures Limited, nor do I expect to receive any.

**Peter E. Walcott, P.Eng.**

**Vancouver, B.C.  
December 2005**

**APPENDIX B**

**DIAMOND DRILL LOGS**

**FREGOLD VENTURES INC.  
DUKE PROPERTY 2005 DRILL PROGRAM  
MERRITT MINIG DISTRICT**

**DDH05-01**

UTM 10 U 0628013 5559180

Final Depth: 500ft (152.4M)

Samples B657708 – B657721 have core samples for IP/Conductivity test.

| GT TAGS | ALS TAGS | DESCRIPTION                           | DEPTH (M)       |
|---------|----------|---------------------------------------|-----------------|
|         | B657708  | Andesitic Pyroxene Porphyritic Basalt | 149.81 - 152.4  |
|         | B657709  | Andesitic Pyroxene Porphyritic Basalt | 136.09 - 137.92 |
|         | B657710  | Andesitic Pyroxene Porphyritic Basalt | 121.01 - 123.14 |
|         | B657711  | Andesitic Pyroxene Porphyritic Basalt | 142.34 - 144.32 |
|         | B657712  | Andesitic Pyroxene Porphyritic Basalt | 105.61 - 107.59 |
|         | B657713  | Andesitic Pyroxene Porphyritic Basalt | 91.14 - 92.51   |
|         | B657714  | Andesitic Pyroxene Porphyritic Basalt | 78.11 - 80.09   |
|         | B657715  | Andesitic Pyroxene Porphyritic Basalt | 97.60 - 99.60   |
|         | B657716  | Andesitic Pyroxene Porphyritic Basalt | 54.56 - 56.56   |
|         | B657717  | Andesitic Pyroxene Porphyritic Basalt | 102.17 - 104.17 |
|         | B657718  | Andesitic Pyroxene Porphyritic Basalt | 84.04 - 86.04   |
|         | B657719  | Andesitic Pyroxene Porphyritic Basalt | 49.36 - 51.36   |
|         | B657720  | Andesitic Pyroxene Porphyritic Basalt | 35.27 - 37.27   |
|         | B657721  | Andesitic Pyroxene Porphyritic Basalt | 22.52 - 24.52   |

**DDH05-02**

UTM 10 U 0627987 5559305

Final Depth: 397 ft (121.01M)

Minor sampling in areas of trace fine grained chalcopyrite occurring in fine quartz veinlets/magnetite fillings.

| GT TAGS | ALS TAGS | DESCRIPTION   | DEPTH (M)     |
|---------|----------|---|---------------|
| 118443  | B657701  | Feldspar porphyry with trc cpy.   | 94.8 - 95.7   |
| 118444  | B657702  | Feldspar porphyry with trc cpy.   | 95.7 - 97.2   |
| 118445  | B657703  | Feldspar porphyry with trc cpy.   | 97.2 - 98.75  |
| 118446  | B657704  | Feldspar porphyry with trc cpy.   | 98.75 - 100.3 |
| 118447  | B657705  | Feldspar porphyry with trc cpy.   | 100.3 - 101.5 |
| 118448  | B657706  | Altered Basalt at Basalt - Feldspar porphyry contact with trc diss cpy. | 65.2 - 66.75  |
| 118449  | B657707  | Feldspar porphyry minor trc cpy   | 66.75 - 68.1  |
|         | B657722  | Feldspar porphyry minor trc cpy   | 34.49 - 36.49 |
|         | B657723  | Feldspar porphyry minor trc cpy   | 75.92 - 77.92 |
|         | B657724  | Feldspar porphyry minor trc cpy   | 12.83 - 14.83 |

**Drill Core Sampling (Duke drill holes DH05-01, DH05-02)**

1. DH05-01 (no samples – all in andesitic pyroxene porphyritic basalt)  
500 feet final depth
  
2. DH05-02 ( minor sampling in areas of trace fine grained chalcopyrite occurring in fine quartz veinlets/magnetite fracture fillings.  
397 feet final depth

| <b>Sample</b> | <b>From</b> | <b>To</b> | <b>Width</b> |   |
|---------------|-------------|-----------|--------------|---|
| 118443        | 94.8        | 95.7      | 0.9m         | Feldspar porphyry, trc cpy starting at approx. 95.1m              |
| 118444        | 95.7        | 97.2      | 1.5          | Felspar porphyry w. trc. cpy                                      |
| 118445        | 97.2        | 98.75     | 1.55         | “   |
| 118446        | 98.75       | 100.3     | 1.55         | “   |
| 118447        | 100.3       | 101.5     | 1.2          | “   |
| 118448        | 65.2        | 66.75     | 1.55         | Altered basalt at basalt-feldspar porphyry contact, trc. diss cpy |
| 118449        | 66.75       | 68.1      | 1.35         | Feldspar porphyry, minor trc cpy                                  |
|               |             |           |              |   |
|               |             |           |              |   |

|                                     |                      |   |
|-------------------------------------|----------------------|---|
| Property: Duke                      | Total depth: 152.4 m | <b>Freegold Ventures Limited</b><br>2303 41st Avenue W,<br>Vancouver, BC, V6M 2A3<br>1p/4 |
| Location: Merritt, BC               | Dip Angle: -60       |   |
| Drillhole #: 05-01                  | Azimuth: 240         |   |
| Logged by: Full Force Drilling Ltd. | Start date: 11/27/05 |   |
| Logged by: G. Thomson               | Stop date: 12/02/05  |   |

| Depth (m) | Lithology | Descriptions   | % Recovery | Alteration | Descriptions | Mineralization | Sample No.    | Assays |        |        |    |
|-----------|-----------|--|------------|------------|--------------|----------------|---------------|--------|--------|--------|----|
|           |           |  |            |            |              |                |               | Au ppm | Ag ppm | Cu ppm |    |
| 0.0       |           | SURFACE CASING   |            |            |              |                |               |        |        |        |    |
| -5.0      |           |  |            |            |              |                |               |        |        |        |    |
| -10.0     |           | ANDESITIC BASALT: 7.6 m<br>med. gray-greenish gray, fine grained feldspathic-pyroxene groundmass, section is marked by 10-20% irregular patches (1-4 cms), disseminations and clusters of dk green wkly chloritized pyroxene phenos, pyroxene is amorphous, generally 2 mm-1 cm, basalts are generally unaltered, wk-mod brkn, hard, competent, mainly non-magnetic to locally weakly magnetic, overall rock texture is mottled w varying patchy gray shades, trc sporadic wht fracture fills of chaledonic quartz, hairline to 3 mm, trc. sporadic wht chaledonic amygdules, 1-3 mm<br><br>f.g. pyrite (trc-0.5%) pervasively ubiquitous, mainly as replacement cores of pyroxene phenos, py. also commonly occurs in fine hairline fracture fills, occasionally, assoc. w chaledony in fract's |            |            |              |                |               |        |        |        |    |
| -15.0     |           |  |            |            |              |                |               |        |        |        |    |
| -20.0     |           |  |            |            |              |                |               |        |        |        |    |
| -25.0     |           |  |            |            |              |                |               |        |        |        |    |
| -30.0     |           | ANDESITIC BASALT: 29.8 m<br>med-dk gray-greenish gray, section contains pervasive disseminations and clots of amorphous dk green pxn phenos, 2-5 mm, locally sparse grading to dense agglomerations (10-20% pxn) through section, f.g. crowded plagioclase (to 1 mm) through groundmass, areas of increased pxn concentration often associated w. lighter colored (tan-brownish gray) areas, pxn phenos/clots often have wk chlorite alteration rims, rock is hard, competent, weak-unaltered, wk-non magnetic, mod brkn @ 41.7-47.6 m, trc sporadic amorphous chaledonic amygdules, 1-3 mm<br><br>trc-0.5% dissem pyrite mainly as pxn replacements/assoc w. trc chaledonic fract. fills (hairline-2 mm)  |            |            |              |                |               |        |        |        |    |
| -35.0     |           |  |            |            |              |                |               |        |        |        |    |
| -40.0     |           |  |            |            |              |                |               |        |        |        |    |
| -45.0     |           |  |            |            |              |                |               |        |        |        |    |
| -50.0     |           |  |            |            |              |                |               |        |        |        |    |
| -55.0     |           | ANDESITIC BASALT: 53.1 m<br>continuation of previous section w. increased amygdules and decrease in pyroxene phenos, ~ 5-10% pxn phenos, 2-4 mm, 1-2% wht chaledonic quartz as hairline-2 mm fract. fills +/- local fracture gash fills, increase in local concentrations of wht-bluish chaledonic amygdules, amorphous-round, 1-4 mm, occas to 1.0 cm, rarely to 3.0 cm, (< 5% amyg's), rock is locally greenish lacking pxn phenos and increased amyg's w. chloritic +/- magnetite streaks, local zones of brown-tan gray surrounding areas of pxn concentrations, rock is overall wk-non magnetic<br><br>trc-locally 0.5% pyrite as pxn pheno replacements, py. also occurs in fine fract. fills  |            |            |              |                |               |        |        |        |    |
| -60.0     |           |  |            |            |              |                |               |        |        |        |    |
| -65.0     |           |  |            |            |              |                |               |        |        |        |    |
| -70.0     |           |  |            |            |              |                |               |        |        |        |    |
| -75.0     |           |  |            |            |              |                |               |        |        |        |    |
| -80.0     |           | ANDESITIC BASALT: 75.5 m<br>med-dk greenish gray, fine grained rock matrix w sporadic interstitial dk magnetite streaks, pervasive wht amorphous-oblong amygdules, locally angular, 3 mm-2 cm, wkly developed widely scattered pxn phenos (<5%), 2-3 m, 1-2 % wht chaledonic fract. fills, 1-3 mm<br><br>trc dissem fine grained py., locally as blebs to 3 mm   |            |            |              |                | 78.11-80.09   | 657714 | 0.011  | 74     |    |
| -85.0     |           | ANDESITIC BASALT: 80.1 m<br>med gray to brownish gray, mod - strongly mottled w. irreg. patches, clots and disseminations of dk green pxn phenos (5-15%), pxn rich zones show wk chlorite alteration around edges of pxn patches and concentrations, pxn phenos generally 2-5 mm, often w. assoc. f.g. dissem. pyrite replacements, minor chaledonic fract. fills, hairline to 3 mm, occas. w. trc py. pervasive wht to bluish amorphous chaledonic amygdules (1-2%), generally 1-2 mm, occas. 1-2 cm, rock groundmass generally contains fine plag. porphyritic texture (plag phenos to 1 mm) rock is competent, weakly brkn, wk - mod magnetic<br><br>trc-0.5% f.g. dissem py, locally to 1% py  |            |            |              |                |               |        |        |        |    |
| -90.0     |           |  |            |            |              |                |               |        |        |        |    |
| -95.0     |           | ANDESITIC BASALT: 88.5 m<br>mixed patchy pale green to med grayish green to brownish gray, fine grained w. numerous areas of dark patchy magnetite +/- chlorite in groundmass, minor local patchy pxn phenos, 1-2 mm<br><br>minor hairline to 2 mm chaledonic fract. fills, mod brkn @ 91.7-92.8 m, pervasive amygdules, generally weak chaled. amygdules w. localized patches or individual amyg's, wht roundish to elongate, 2-5 mm, rarely 1-4 cm, occas. w. reddish (hematite) rims, minor localized fractured areas (10-20 cms) often w. carbonate fract. coatings<br><br>ubiquitous dissem f.g. py as pxn replacements, Trc -0.5%, locally 1-2% py, minor py in fine fract. fills  |            |            |              |                | 91.14-92.51   | 657713 | 0.009  | 0.3    | 49 |
| -100.0    |           |  |            |            |              |                |               |        |        |        |    |
| -105.0    |           |  |            |            |              |                |               |        |        |        |    |
| -110.0    |           |  |            |            |              |                |               |        |        |        |    |
| -115.0    |           | ANDESITIC BASALT: 109.6 m<br>fine grained, patchy pale to dark grayish green, local darker areas wk-mod magnetic, minor chaled. fract. fills, locally w. minor sporadic wht chaledonic clots to 3 cm, trc widely scattered amygdules to 1 cm, rarely as 2-10 cm irreg patches/clusters, sporadic patchy areas of f.g. pyroxene (1-2 mm) dissemination patches, pxn often w. trc assoc pyrite replacements (trc-0.5%), trc pyrite in hairline fract. fills  |            |            |              |                |               |        |        |        |    |
| -120.0    |           |  |            |            |              |                |               |        |        |        |    |
| -125.0    |           | ANDESITIC BASALT: 118.5 m<br>med. greenish gray to brownish gray, marked increase in fine grained, evenly disseminated pyroxene, 2-5% pyroxene, anhedral, 1-2 mm, pxn locally chloritized, trc. chaledonic fract. fills, 1-3 mm, rarely to 1 cm, minor round to elongate, chaled. amygdules, 1-1.5 cm, locally aligned at 40 degrees to core axis<br><br>slightly increased pyrite (0.5-1%) as pyroxene pheno. replacements  |            |            |              |                | 121.01-123.14 | 657710 | 0.027  | 0.8    | 75 |
| -130.0    |           | ANDESITIC BASALT: 121.5 m<br>med to dark grayish green, mottled fine grain dark magnetite-rich groundmass w. numerous lighter green patchy areas associated w. sporadic irreg. pxn patches and clusters, pxn generally fine grained, 1-3 mm, rock is wk to locally mod magnetic, locally finely fract'd and brkn along hairline chaled +/- carbonate fract. fills<br><br>sporadic trc f.g. pyrite mainly concentrated in and around pxn phenos   |            |            |              |                |               |        |        |        |    |
| -135.0    |           |  |            |            |              |                |               |        |        |        |    |
| -140.0    |           | ANDESITIC BASALT: 126.2 m<br>med to dk grayish green, fine grained, negligible pyroxene, moderately magnetic, pyrite generally absent to negligible, minor localized increase in pyrite in several areas of chaledonic fract. fills, trc. sporadic chaledonic amygdules/angular clots, trc. chaledonic fracture fills, 1-2 mm, moderately brkn @ 136.75-141.1 with weak carbonate +/- pyrite on fractures<br><br>142.0-143.1<br>increase in chaledonic veining, wht chaled. clots and localized fracture breccia matrix fills, w. increased pyrite in and around chaledonic fract. fills/matrix fills<br><br>144.0-144.3<br>mod-strong pyrite along chaledonic fracture fills  |            |            |              |                | 136.09-137.92 | 657709 | 0.032  | 1.0    | 97 |
| -145.0    |           |  |            |            |              |                |               |        |        |        |    |
| -150.0    |           |  |            |            |              |                | 142.34-144.32 | 657711 | 0.018  | 0.7    | 44 |
|           |           |  |            |            |              |                |               |        |        |        |    |
|           |           |  |            |            |              |                | 149.81-152.4  | 657708 | 0.011  | 0.3    | 16 |





**APPENDIX C**

**ANALYTICAL CERTIFICATES**

VA05113650 - Finalized

CLIENT : "FREVEN - Freegold Ventures Ltd."

# of SAMPLES : 7

DATE RECEIVED : 2005-12-24 DATE FINALIZED : 2006-01-11

PROJECT : "Duke"

CERTIFICATE COMMENTS : ""

PO NUMBER : ""

|          | Au-AA24 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|----------|---------|----------|----------|----------|----------|----------|----------|----------|
| SAMPLE   | Au      | Ag       | Al       | As       | B        | Ba       | Be       | Bi       |
| DESCRIPT | ppm     | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      |
| B657701  | 0.02    | 0.7      | 1.86     | <2       | <10      |          | 130 <0.5 | <2       |
| B657702  | 0.045   | 1        | 1.88     |          | 5 <10    |          | 160 <0.5 | 2        |
| B657703  | 0.031   | 0.7      | 1.98     |          | 3 <10    |          | 160 <0.5 | 2        |
| B657704  | 0.03    | 0.8      | 2.15     | <2       | <10      |          | 130 <0.5 | <2       |
| B657705  | 0.03    | 0.9      | 2.12     | <2       | <10      |          | 140 <0.5 | <2       |
| B657706  | 0.035   | 1.1      | 3.07     |          | 33 <10   |          | 170 <0.5 | 2        |
| B657707  | 0.05    | 0.8      | 1.66     |          | 9 <10    |          | 120 <0.5 | 2        |

| ME-ICP41<br>La<br>ppm | ME-ICP41<br>Mg<br>% | ME-ICP41<br>Mn<br>ppm | ME-ICP41<br>Mo<br>ppm | ME-ICP41<br>Na<br>% | ME-ICP41<br>Ni<br>ppm | ME-ICP41<br>P<br>ppm | ME-ICP41<br>Pb<br>ppm | ME-ICP41<br>S<br>% |
|-----------------------|---------------------|-----------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|--------------------|
| 10                    | 0.94                | 443                   | 5                     | 0.17                | 10                    | 680                  | <2                    | 0.87               |
| 10                    | 0.94                | 398                   | 4                     | 0.21                | 9                     | 660                  | 4                     | 0.59               |
| 10                    | 1.13                | 420                   | 7                     | 0.19                | 13                    | 720                  | 2                     | 0.27               |
| 10                    | 1.16                | 394                   | 3                     | 0.26                | 12                    | 720                  | 3                     | 0.21               |
| 10                    | 1.19                | 433                   | 1                     | 0.19                | 14                    | 720                  | 3                     | 0.38               |
| 10                    | 1.91                | 782                   | 5                     | 0.31                | 28                    | 1140                 | 2                     | 0.89               |
| 10                    | 0.76                | 394                   | 3                     | 0.09                | 8                     | 660                  | 8                     | 0.58               |

| ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |    |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
| Sb       | Sc       | Sr       | Ti       | Tl       | U        | V        | W        | Zn       |    |
| ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      |    |
| <2       |          | 4        | 134      | 0.05     | <10      | <10      | 53       | <10      | 48 |
| <2       |          | 4        | 236      | 0.08     | <10      | <10      | 57       | <10      | 44 |
| <2       |          | 5        | 327      | 0.08     | <10      | <10      | 67       | <10      | 52 |
| <2       |          | 5        | 148      | 0.1      | <10      | <10      | 72       | <10      | 57 |
| <2       |          | 4        | 228      | 0.06     | <10      | <10      | 66       | <10      | 53 |
| <2       |          | 10       | 307      | 0.19     | <10      | <10      | 118      | <10      | 61 |
| <2       |          | 2        | 101      | 0.01     | <10      | <10      | 37       | <10      | 39 |

| ME-ICP41<br>Ca<br>% | ME-ICP41<br>Cd<br>ppm | ME-ICP41<br>Co<br>ppm | ME-ICP41<br>Cr<br>ppm | ME-ICP41<br>Cu<br>ppm | ME-ICP41<br>Fe<br>% | ME-ICP41<br>Ga<br>ppm | Hg-CV41<br>Hg<br>ppm | ME-ICP41<br>K<br>% |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|----------------------|--------------------|
| 0.83                | <0.5                  |                       | 10                    | 23                    | 429                 | 2.88                  | 10                   | 0.01               |
| 0.86                | <0.5                  |                       | 10                    | 10                    | 739                 | 2.69                  | 10                   | <0.01              |
| 1.06                | <0.5                  |                       | 9                     | 24                    | 532                 | 2.83                  | 10                   | 0.01               |
| 0.95                | <0.5                  |                       | 10                    | 14                    | 550                 | 2.88                  | 10                   | <0.01              |
| 0.95                | <0.5                  |                       | 11                    | 25                    | 485                 | 2.94                  | 10                   | 0.01               |
| 1.72                | <0.5                  |                       | 15                    | 43                    | 888                 | 4.32                  | 10                   | 0.01               |
| 2.13                | <0.5                  |                       | 7                     | 18                    | 666                 | 2.12                  | 10                   | 0.01               |

VA06000485 - Finalized

CLIENT : "FREVEN - Freegold Ventures Ltd."

# of SAMPLES : 7

DATE RECEIVED : 2006-01-03 DATE FINALIZED : 2006-01-13

PROJECT : "Duke"

CERTIFICATE COMMENTS : ""

PO NUMBER : " "

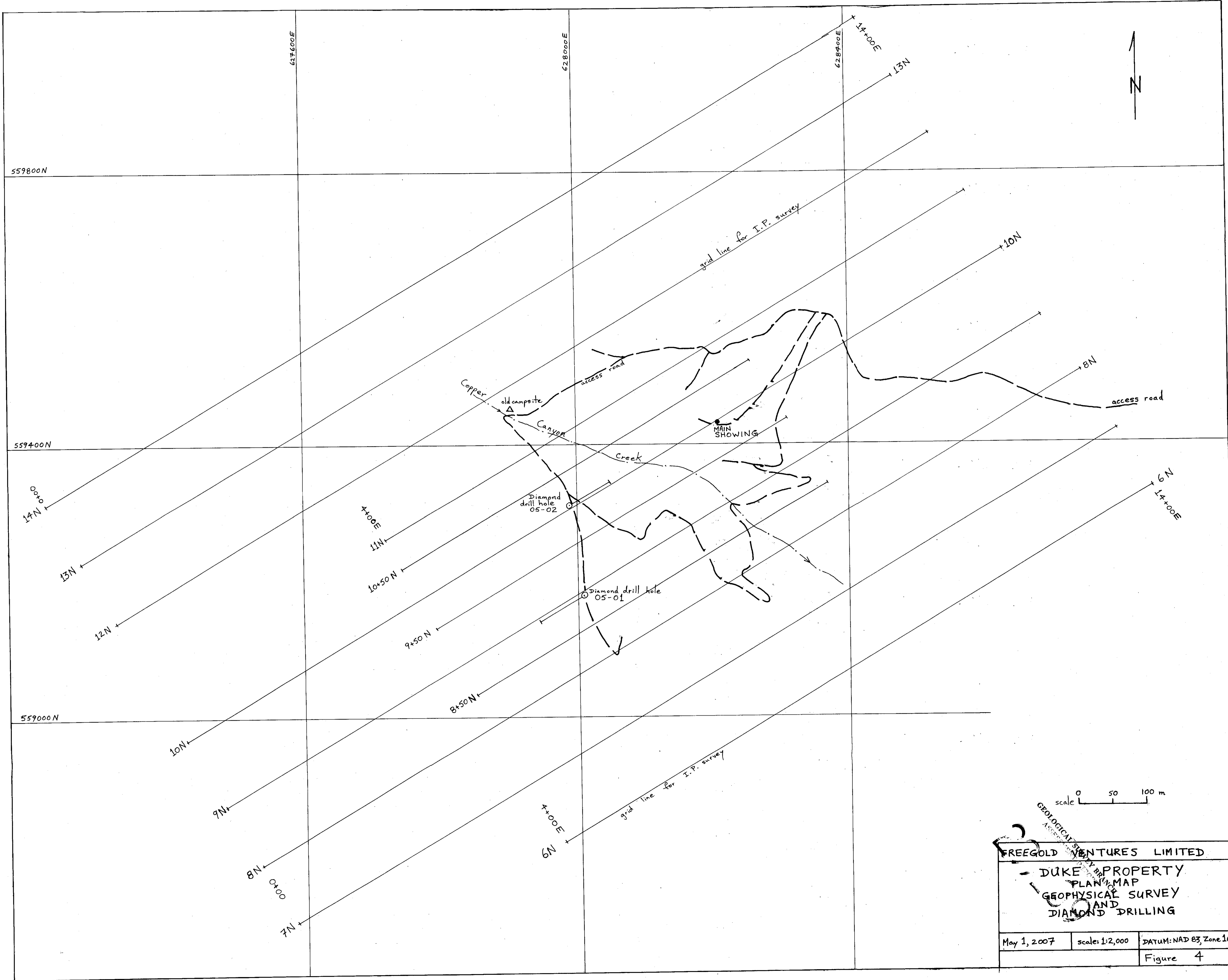
|          | Au-AA24 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|----------|---------|----------|----------|----------|----------|----------|----------|----------|
| SAMPLE   | Au      | Ag       | Al       | As       | B        | Ba       | Be       | Bi       |
| DESCRIPT | ppm     | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      |
| B657708  | 0.011   | 0.3      | 2.49     | <2       | <10      |          | 40 <0.5  | <2       |
| B657709  | 0.032   | 1        | 3.76     |          | 4 <10    |          | 60 <0.5  | <2       |
| B657710  | 0.027   | 0.8      | 4.56     |          | 2 <10    |          | 60       | 0.5 <2   |
| B657711  | 0.018   | 0.7      | 2.6      |          | 5 <10    |          | 30 <0.5  | <2       |
| B657712  | 0.023   | 0.7      | 4.97     |          | 8 <10    |          | 120      | 0.5 <2   |
| B657713  | 0.009   | 0.3      | 2.98     |          | 2 <10    |          | 50 <0.5  | <2       |
| B657714  | 0.011   | <0.2     | 4.91     |          | 7 <10    |          | 100      | 0.6 <2   |

| ME-ICP41<br>Ca<br>% | ME-ICP41<br>Cd<br>ppm | ME-ICP41<br>Co<br>ppm | ME-ICP41<br>Cr<br>ppm | ME-ICP41<br>Cu<br>ppm | ME-ICP41<br>Fe<br>% | ME-ICP41<br>Ga<br>ppm | Hg-CV41<br>Hg<br>ppm | ME-ICP41<br>K<br>% |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|----------------------|--------------------|
| 1.52                | 0.8                   | 19                    | 176                   | 16                    | 4.06                | 10                    | 0.01                 | 0.06               |
| 2.76                | 2.2                   | 19                    | 153                   | 97                    | 4.23                | 10                    | 0.01                 | 0.05               |
| 2.46                | 1                     | 27                    | 144                   | 75                    | 4.93                | 10                    | 0.01                 | 0.08               |
| 1.86                | 1.2                   | 20                    | 123                   | 44                    | 3.81                | 10                    | 0.01                 | 0.03               |
| 3.28                | 2.4                   | 28                    | 112                   | 72                    | 5.38                | 10                    | 0.01                 | 0.23               |
| 1.14                | 0.8                   | 23                    | 117                   | 49                    | 4.94                | 10                    | 0.01                 | 0.12               |
| 3.56                | 0.9                   | 15                    | 70                    | 74                    | 4.49                | 10                    | 0.01                 | 0.2                |

| ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |      |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| La       | Mg       | Mn       | Mo       | Na       | Ni       | P        | Pb       | S        |      |
| ppm      | %        | ppm      | ppm      | %        | ppm      | ppm      | ppm      | %        |      |
| <10      |          | 2.18     | 626 <1   |          | 0.21     | 86       | 1280     | 20       | 1.09 |
| <10      |          | 2.09     | 572 <1   |          | 0.39     | 89       | 1580     | 103      | 1.18 |
| <10      |          | 3.29     | 801      | 4        | 0.41     | 105      | 1440     | 62       | 1.34 |
| <10      |          | 1.72     | 520 <1   |          | 0.25     | 79       | 1470     | 43       | 2.78 |
| <10      |          | 3.44     | 1000 <1  |          | 0.32     | 109      | 1520     | 102      | 2.24 |
|          | 10       | 3.53     | 701 <1   |          | 0.13     | 105      | 1780     | 46       | 0.88 |
|          | 10       | 2.43     | 759      | 1        | 0.52     | 40       | 1420     | 23       | 1.04 |

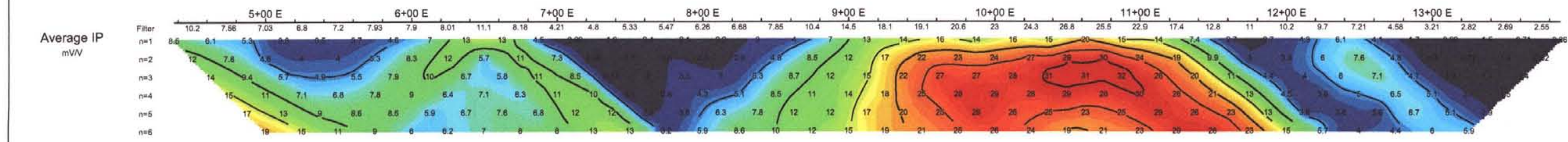
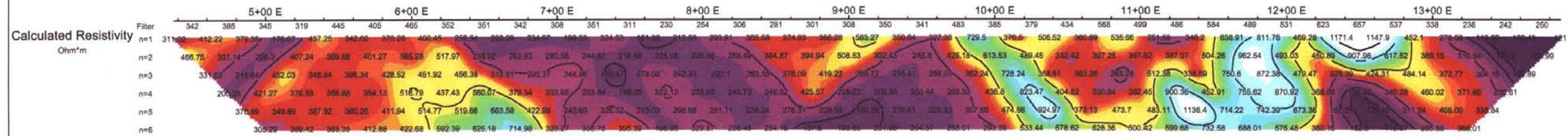
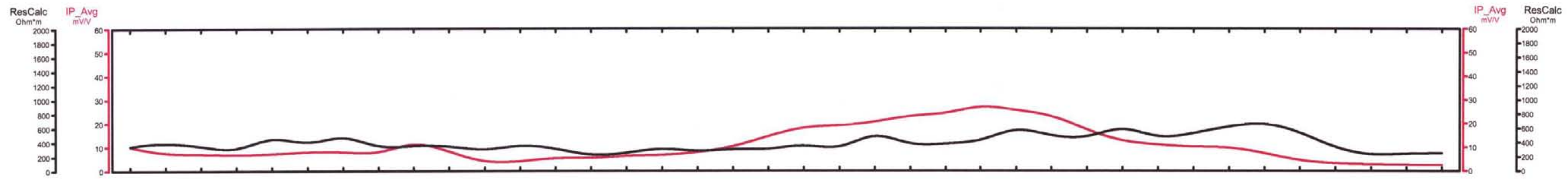


| ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |     |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| Sb       | Sc       | Sr       | Ti       | Tl       | U        | V        | W        | Zn       |     |
| ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      |     |
| <2       |          | 4        | 114      | 0.29     | <10      | <10      | 87       | <10      | 226 |
| <2       |          | 5        | 317      | 0.26     | <10      | <10      | 101      | <10      | 282 |
| <2       |          | 7        | 286      | 0.24     | <10      | <10      | 119      | <10      | 303 |
|          | 2        | 2        | 184      | 0.16     | <10      | <10      | 65       | <10      | 212 |
| <2       |          | 12       | 312      | 0.12     | <10      | <10      | 124      | <10      | 312 |
| <2       |          | 13       | 70       | 0.19     | <10      | <10      | 142      | <10      | 233 |
| <2       |          | 12       | 677      | 0.21     | <10      | <10      | 137      | <10      | 186 |

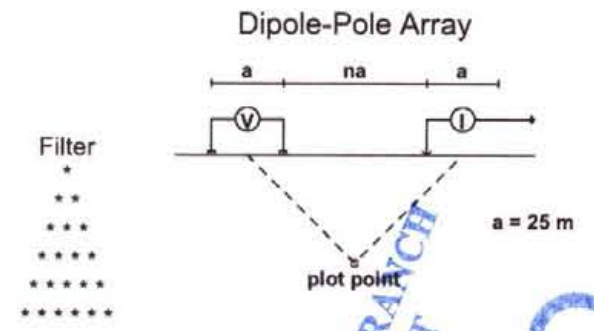


scale 0 50 100 m  
 GEOLOGICAL SURVEY OF CANADA  
**FREGOLD VENTURES LIMITED**  
**DUKE PROPERTY**  
**PLAN MAP**  
**GEOPHYSICAL SURVEY**  
**AND**  
**DIAMOND DRILLING**

|             |                |                        |
|-------------|----------------|------------------------|
| May 1, 2007 | scale: 1:2,000 | DATUM: NAD 83, Zone 10 |
|             |                | Figure 4               |



6+00 N

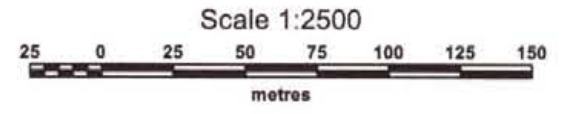


Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
 Frequency: 0.125 Hz.  
 Operators: M.W., A.C., P.C.

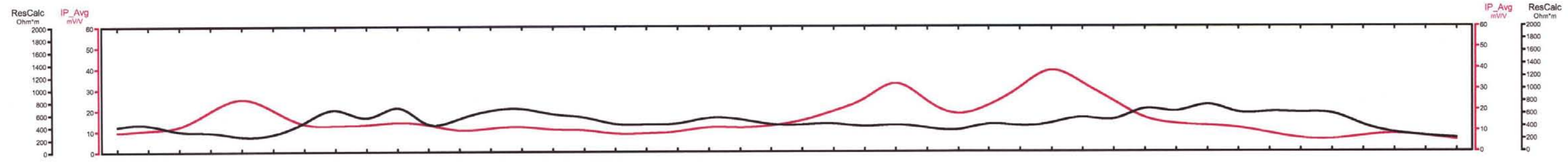
Logarithmic  
 Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- | Resistivity feature.

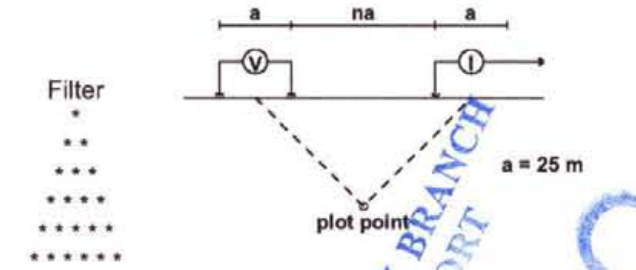


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 INDUCED POLARIZATION SURVEY  
 DUKE PROPERTY, MERRITT AREA  
 NICOLA M.D., B.C.  
 Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 921/3  
 Interpretation: Peter E. Walcott  
 PETER E. WALCOTT & ASSOCIATES LIMITED



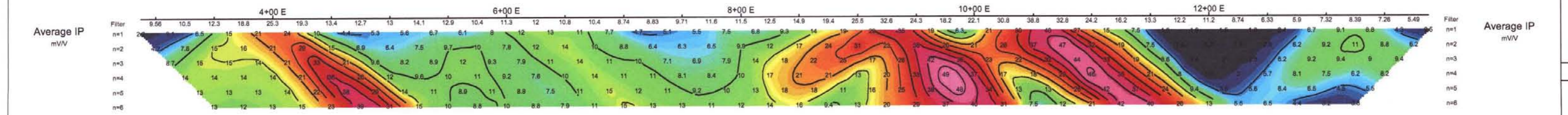
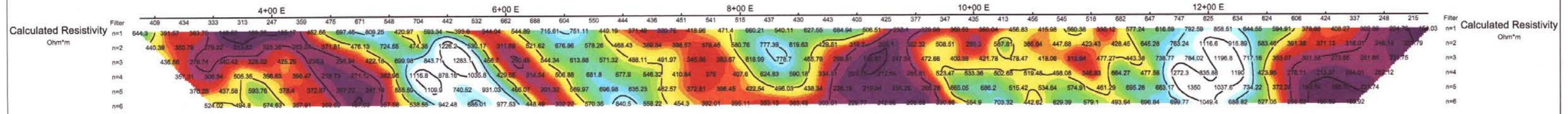
7+00 N

Dipole-Dipole Array



Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
Frequency: 0.125 Hz.  
Operators: M.W., A.C., P.C.

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



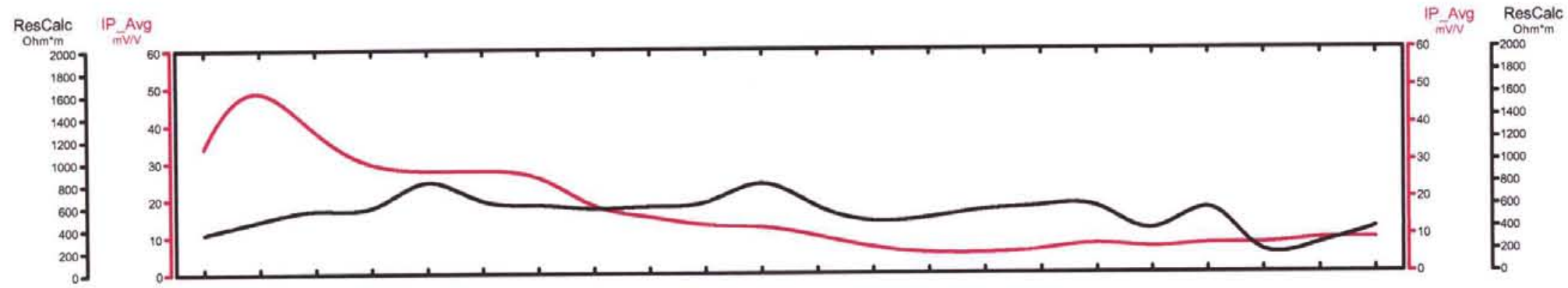
**INTERPRETATION**

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- | Resistivity feature.

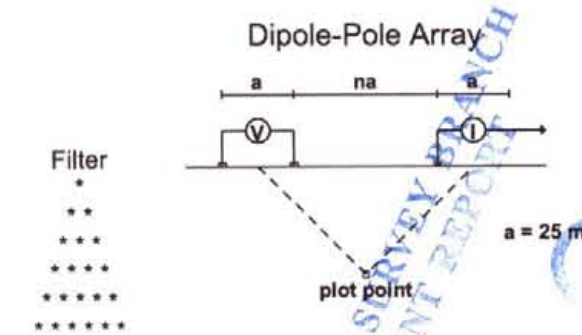
Scale 1:2500

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**PETER E. WALCOTT & ASSOCIATES LIMITED**



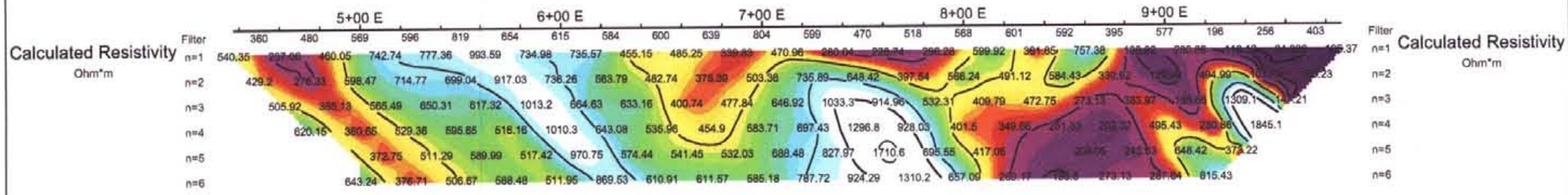


8+50 N



Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
 Frequency: 0.125 Hz  
 Operators: M.W., A.C., P.C.

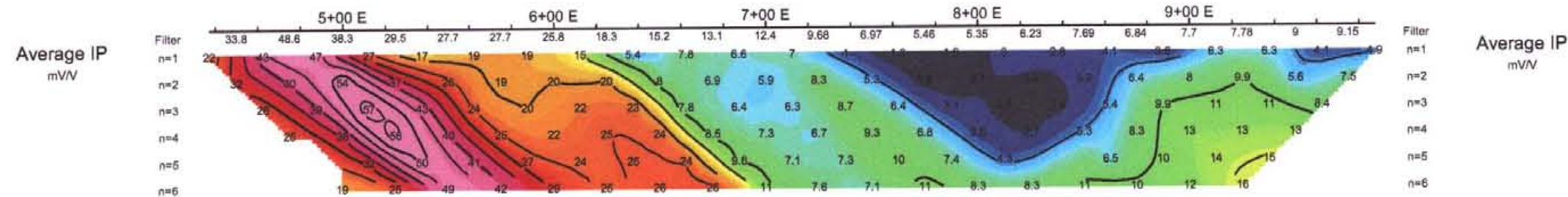
Logarithmic  
 Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...



INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- | Resistivity feature.

Scale 1:2500

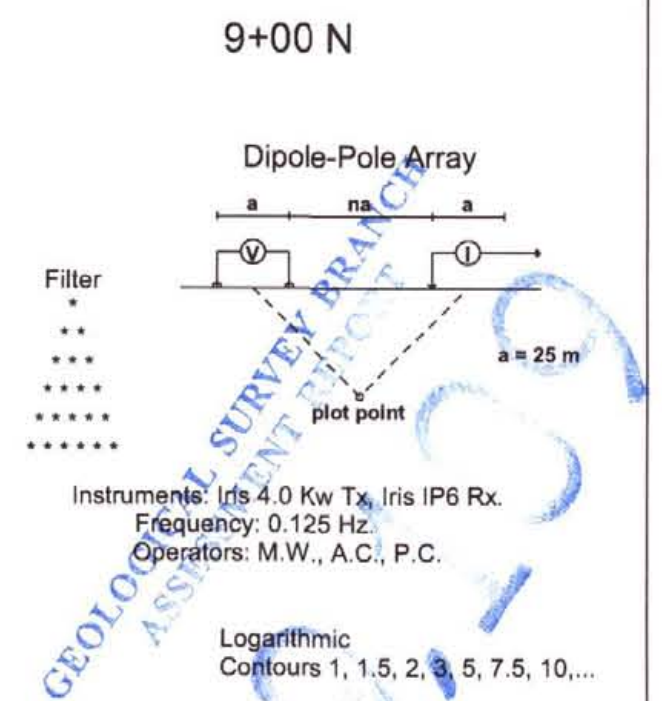
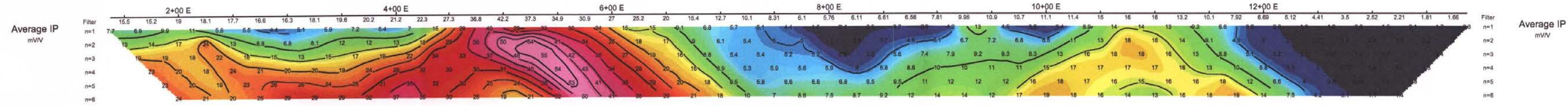
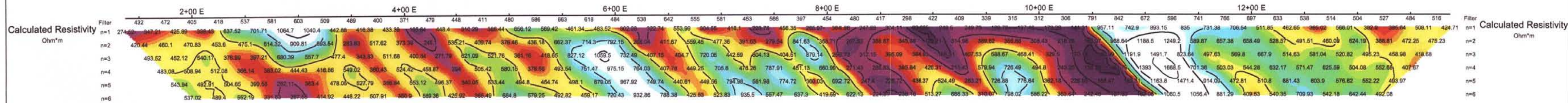
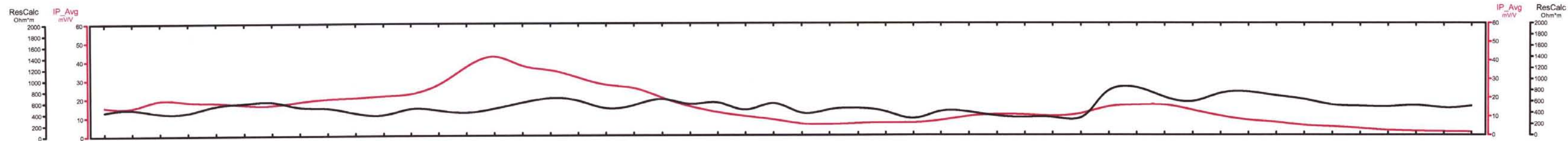


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 Interpretation: Peter E. Walcott

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**INTERPRETATION**

— Well defined, strong increase in polarization with or without marked decrease in resistivity.

••• Fairly well defined moderate increase in polarization.

— Fairly well defined weak increase in polarization.

| Resistivity feature.

Scale 1:2500

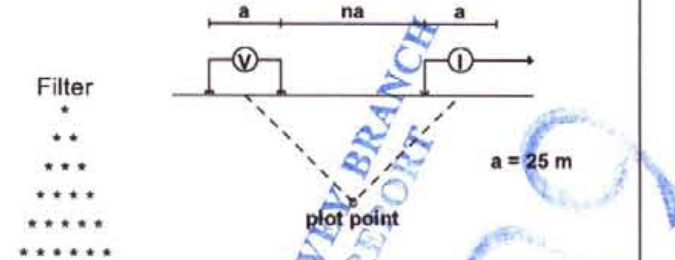
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 DUKE PROPERTY, MERRITT AREA  
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9+50 N

Dipole-Pole Array



Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
 Frequency: 0.125 Hz.  
 Operators: M.W., A.C., P.C.

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

INTERPRETATION

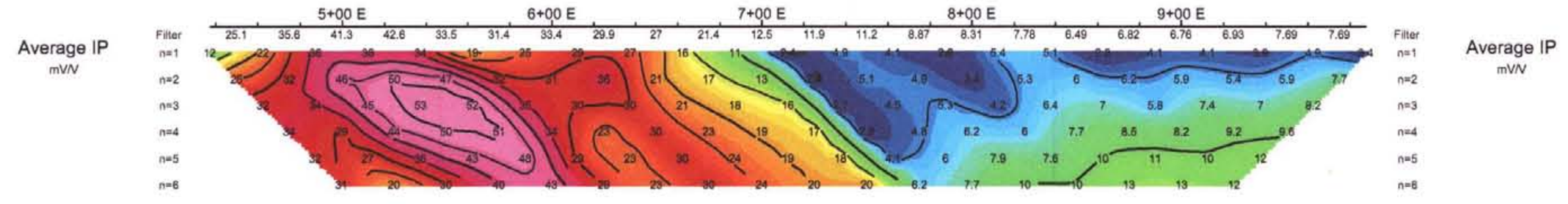
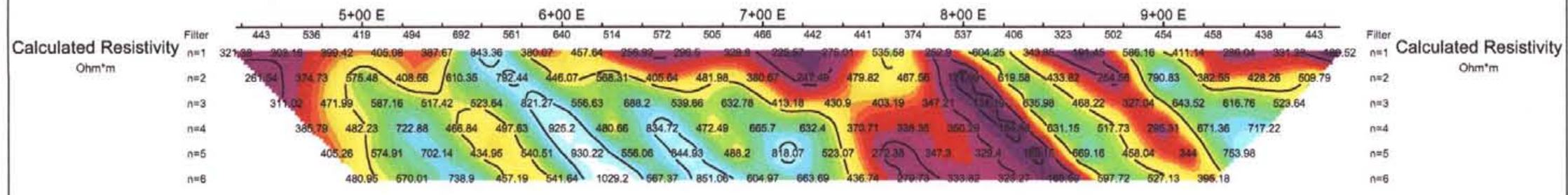
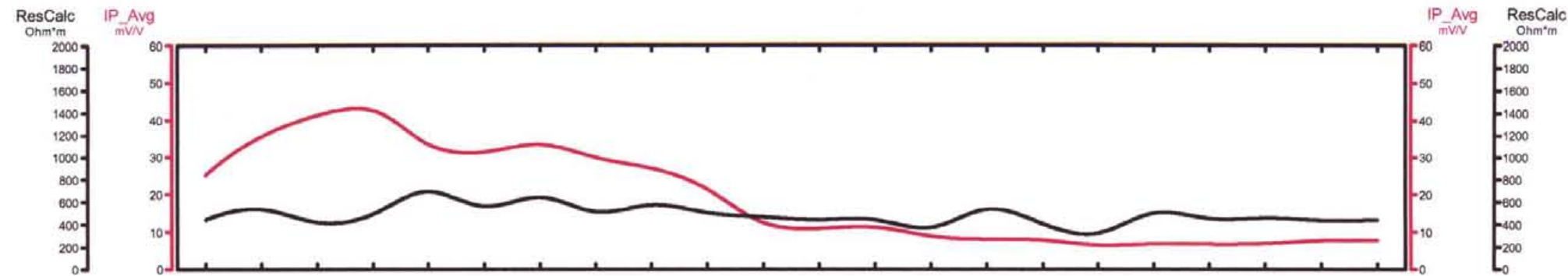
- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- Resistivity feature.



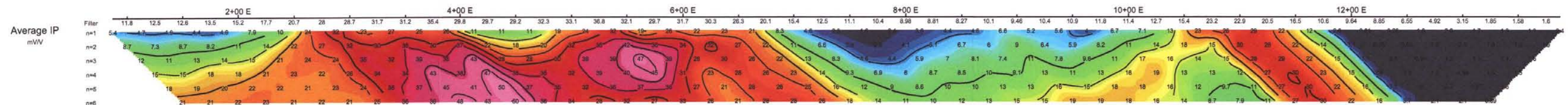
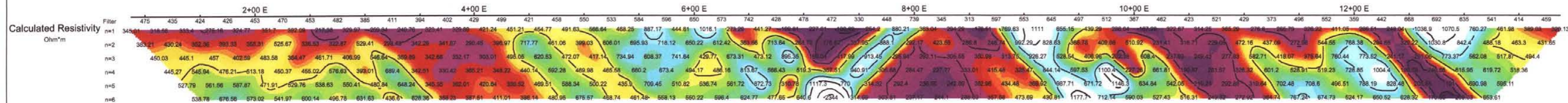
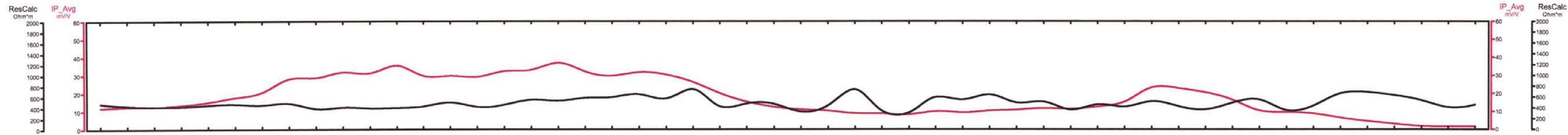
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 DUKE PROPERTY, MERRITT AREA  
 NICOLA M.D., B.C.

Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 921/3  
 Interpretation: Peter E. Walcott

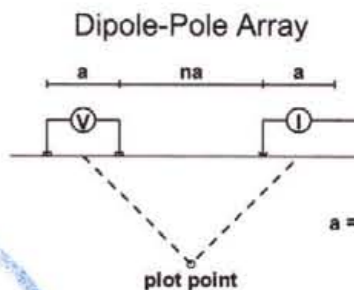
PETER E. WALCOTT & ASSOCIATES LIMITED







10+00 N

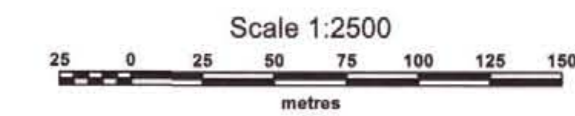


Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
Frequency: 0.125 Hz.  
Operators: M.W., A.C., P.C.

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

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- Resistivity feature.

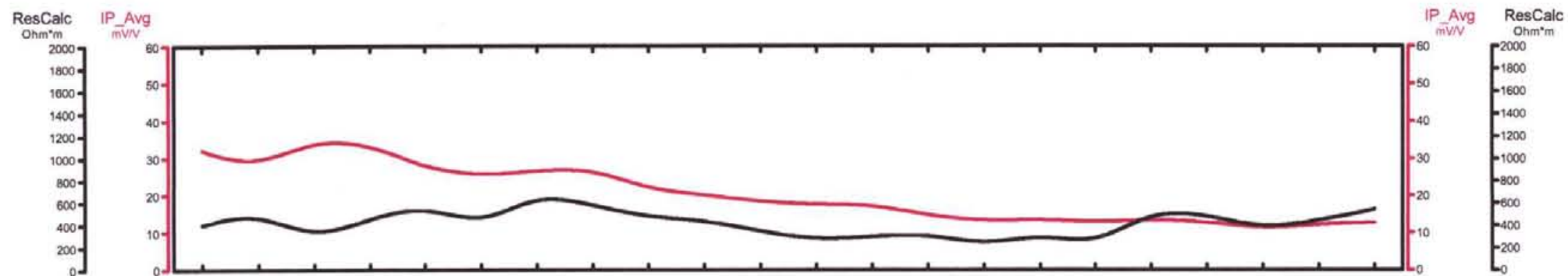


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NICOLA M.D., B.C.

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Interpretation: Peter E. Walcott

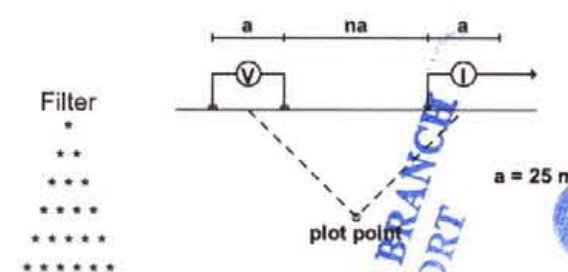
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GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT



10+50 N

Dipole-Pole Array



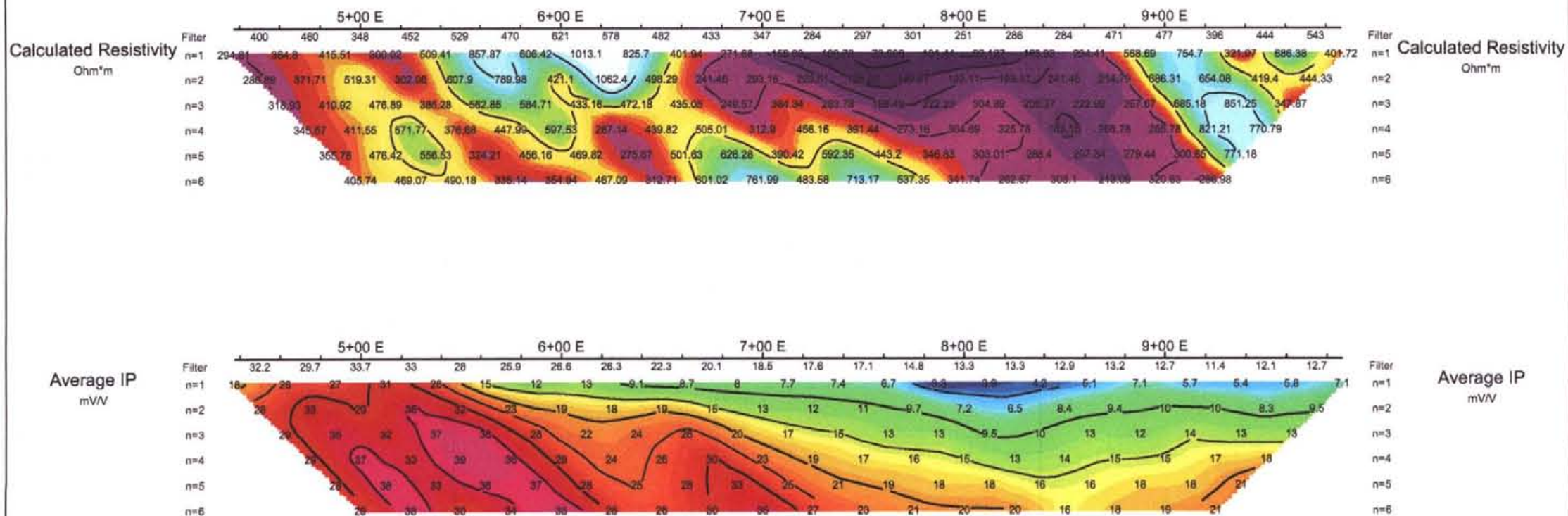
Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
Frequency: 0.125 Hz  
Operators: M.W., A.C., P.C.

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

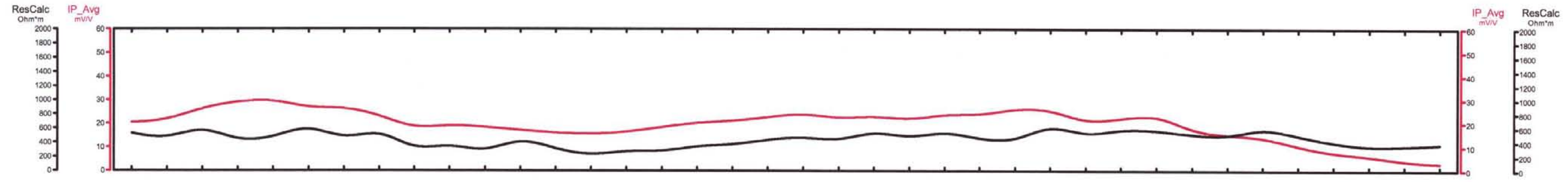
INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- Resistivity feature.

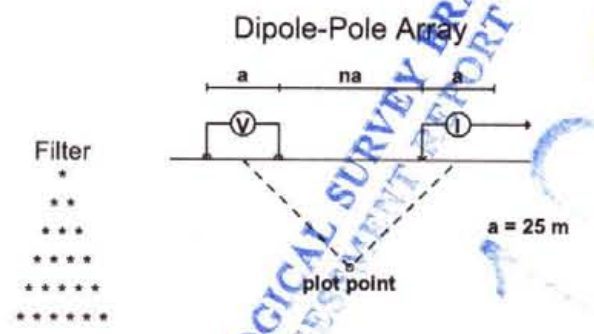
Scale 1:2500



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DUKE PROPERTY, MERRITT AREA  
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Interpretation: Peter E. Walcott  
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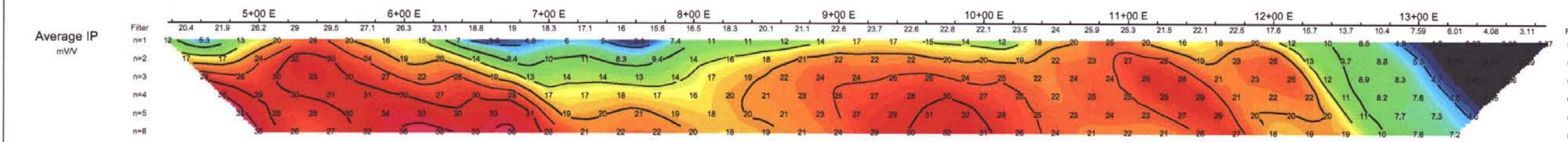
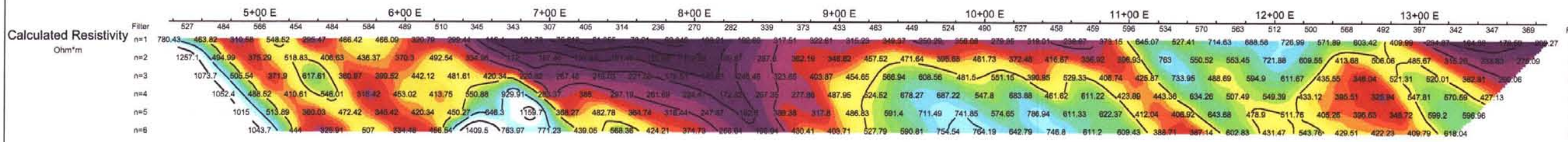


11+00 N



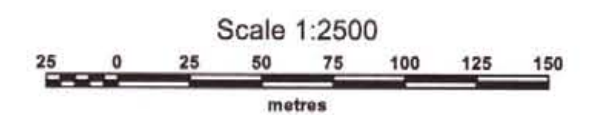
Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
 Frequency: 0.125 Hz.  
 Operators: M.W., A.C., P.C.

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

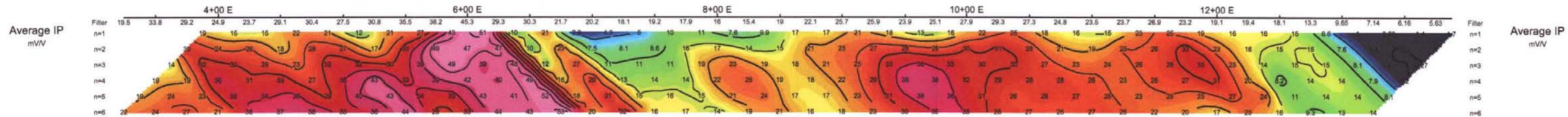
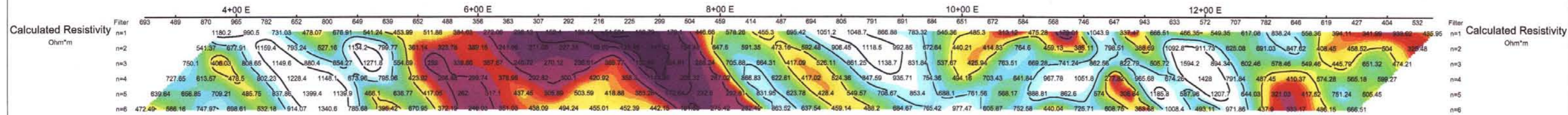
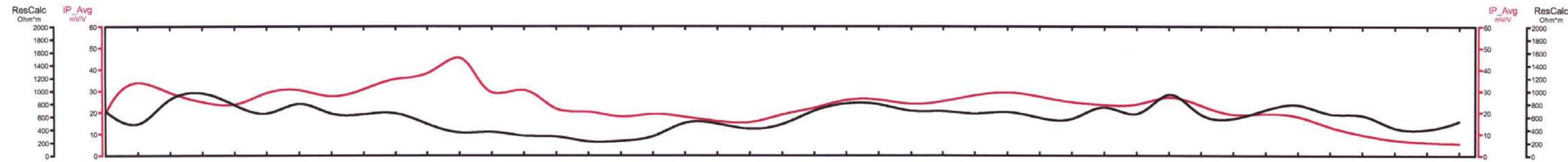


INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- Resistivity feature.

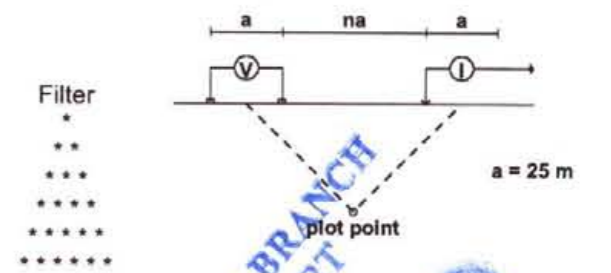


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 DUKE PROPERTY, MERRITT AREA  
 NICOLA M.D., B.C.  
 Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 92/3  
 Interpretation: Peter E. Walcott  
**PETER E. WALCOTT & ASSOCIATES LIMITED**



12+00 N

Dipole-Dipole Array



Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
Frequency: 0.125 Hz.  
Operators: M.W., A.C., P.C.

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

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- Resistivity feature.

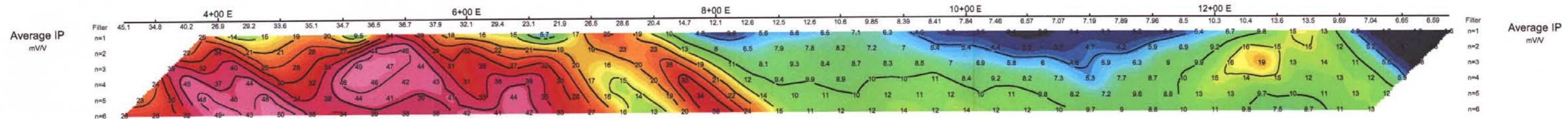
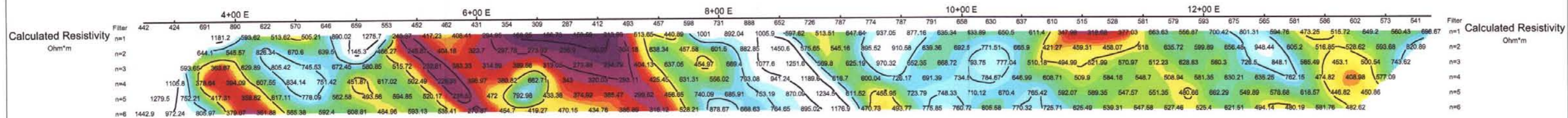
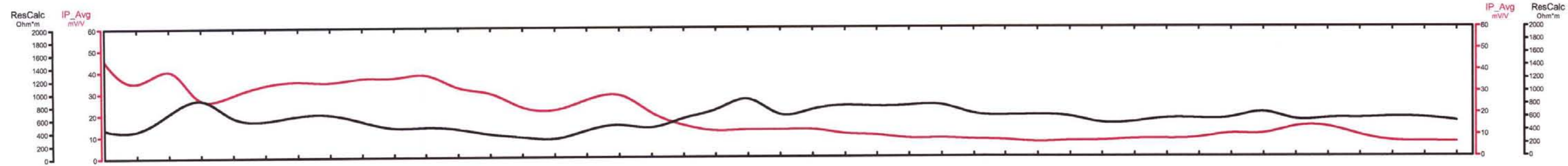
Scale 1:2500



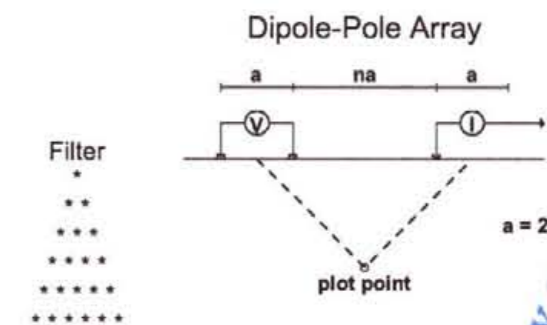
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INDUCED POLARIZATION SURVEY  
DUKE PROPERTY, MERRITT AREA  
NICOLA M.D., B.C.

Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 921/3  
Interpretation: Peter E. Walcott

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13+00 N



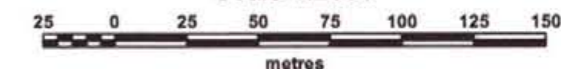
Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx  
 Frequency: 0.125 Hz.  
 Operators: M.W., A.C., P.C.

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

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- | Resistivity feature.

Scale 1:2500



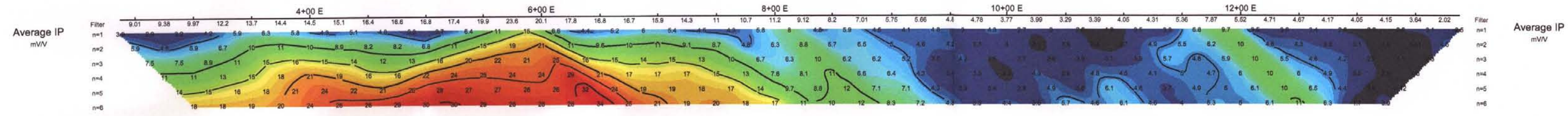
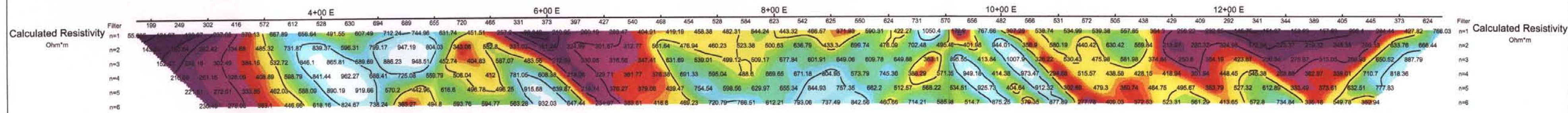
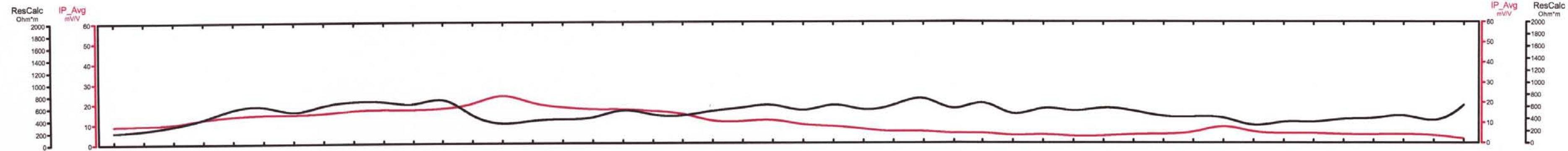
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INDUCED POLARIZATION SURVEY  
 DUKE PROPERTY, MERRITT AREA  
 NICOLA M.D., B.C.

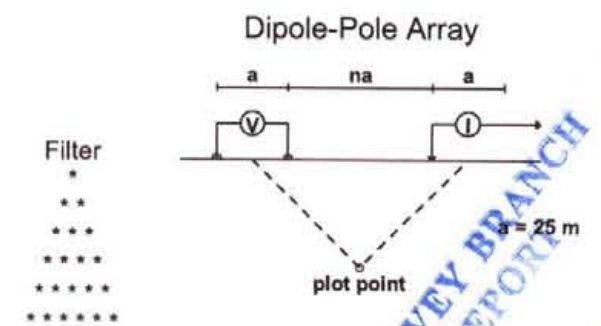
Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 921/3  
 Interpretation: Peter E. Walcott

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GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT  
 2005-09



14+00 N



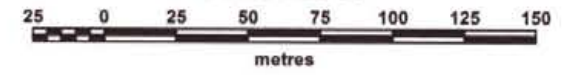
Instruments: Iris 4.0 Kw Tx, Iris IP6 Rx.  
 Frequency: 0.125 Hz  
 Operators: M.W., A.C., P.C.

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

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Fairly well defined weak increase in polarization.
- | Resistivity feature.

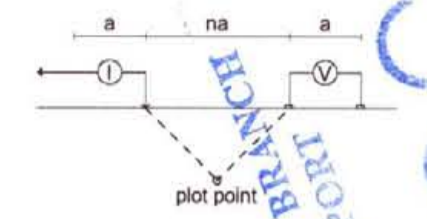
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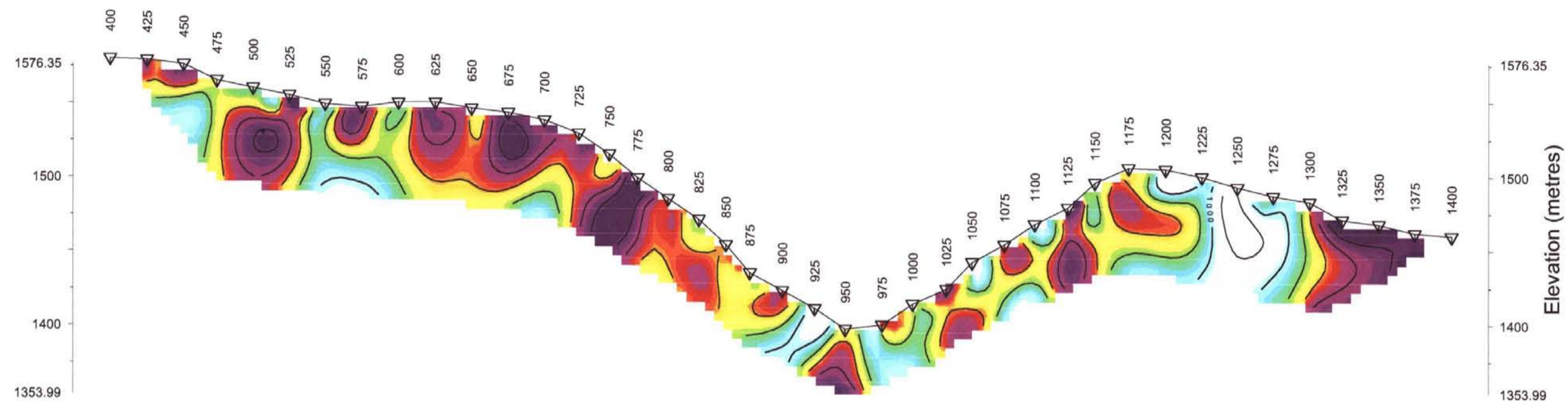
FREEGOLD VENTURES LTD.  
 INDUCED POLARIZATION SURVEY  
 DUKE PROPERTY, MERRITT AREA  
 NICOLA M.D., B.C.  
 Date: SEPTEMBER-OCTOBER 2005 N.T.S.: 921/3  
 Interpretation: Peter E. Walcott  
 PETER E. WALCOTT & ASSOCIATES LIMITED

Line 600

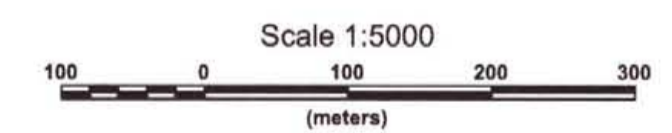
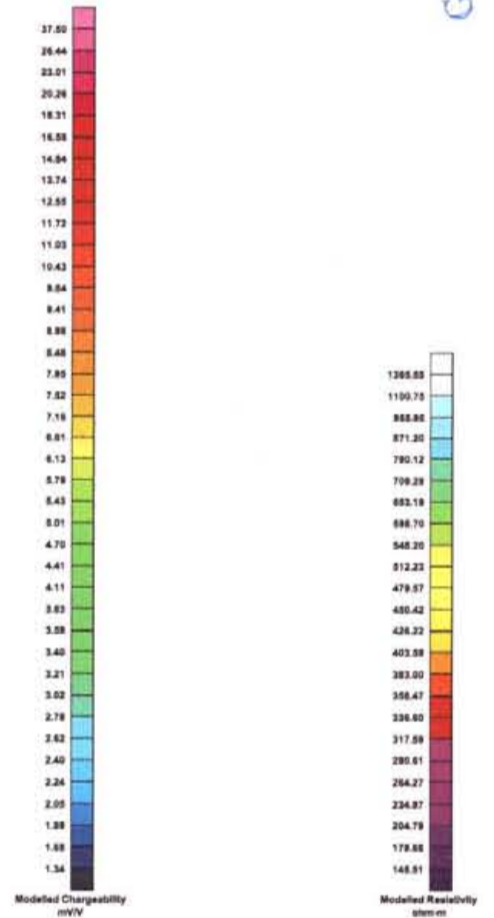
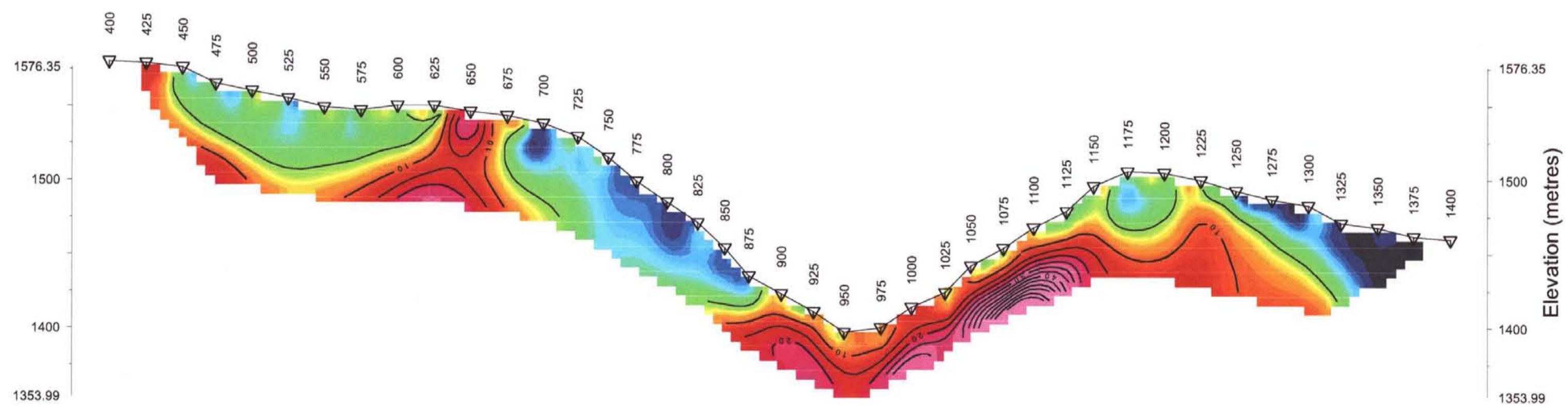
Pole-Dipole Array



Modelled Resistivity (Ohm-m)



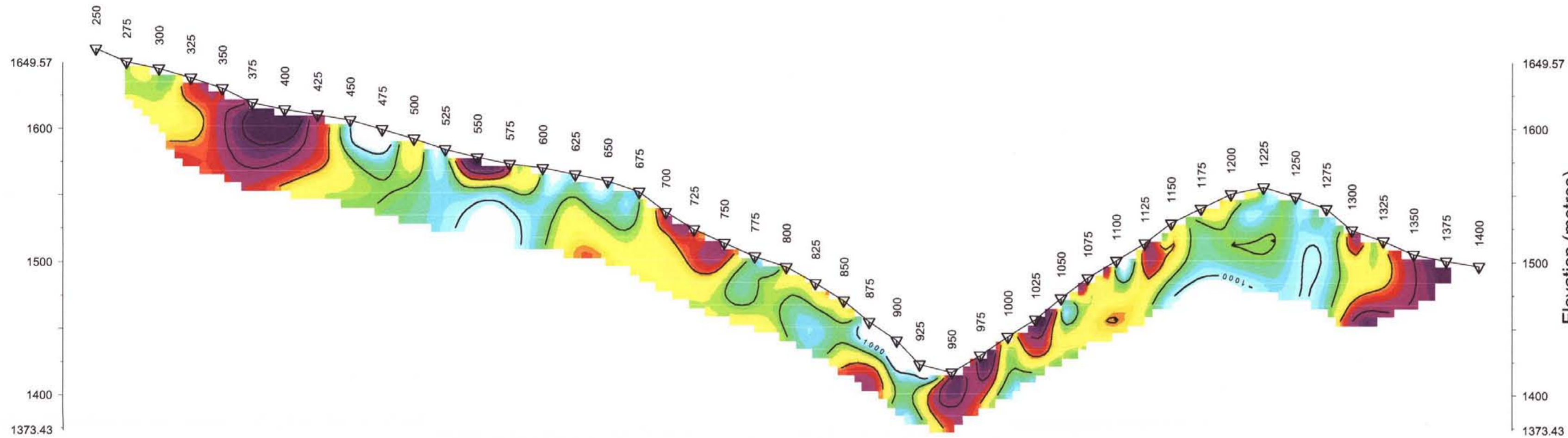
Modelled Chargeability (mV/V)



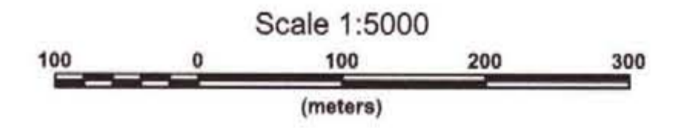
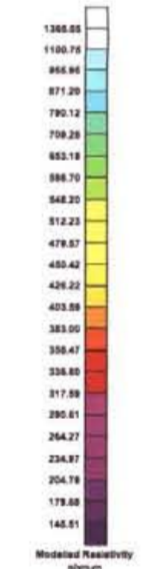
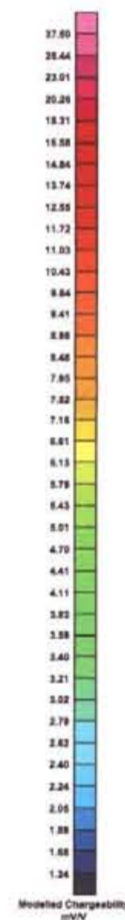
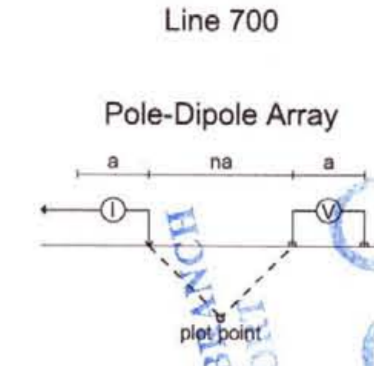
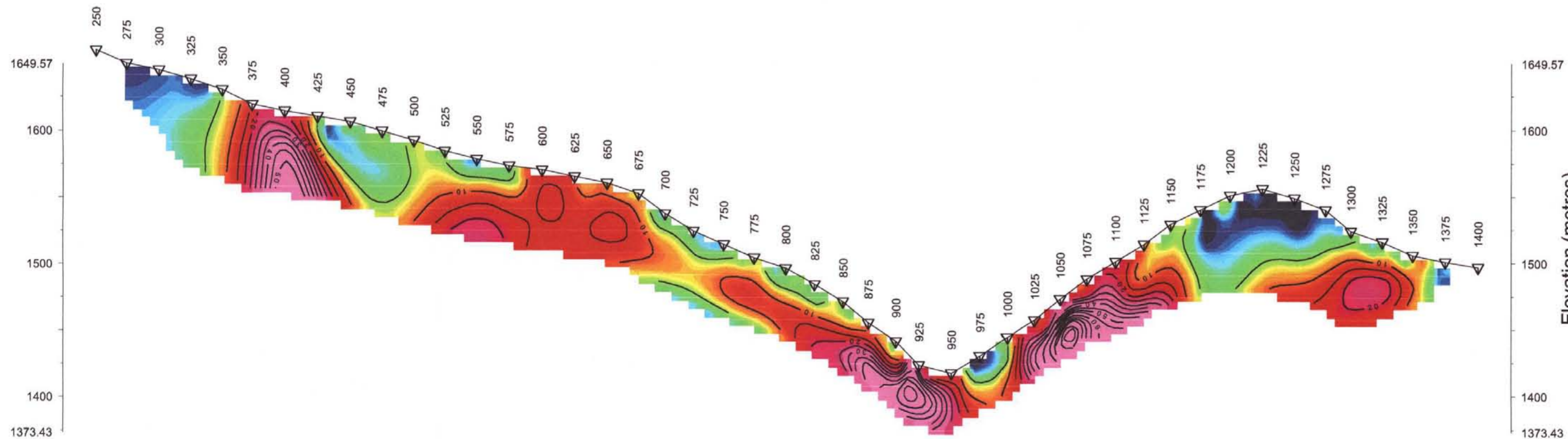
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 DUKE PROJECT  
 MERRIT, BRITISH COLUMBIA  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
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GEOTECHNICAL SURVEY BRANCH  
 MERRIT REPORT  
 2016162

Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)

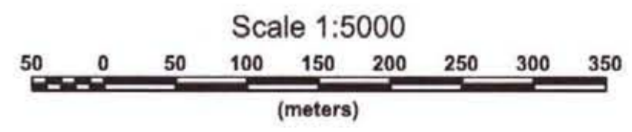
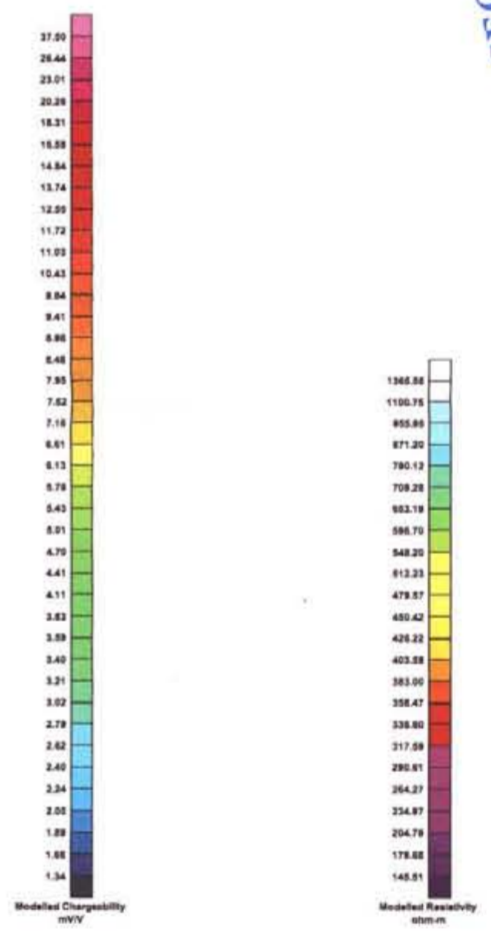
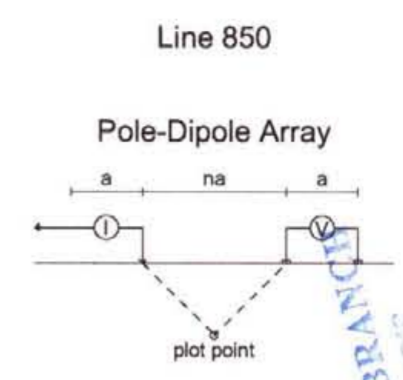
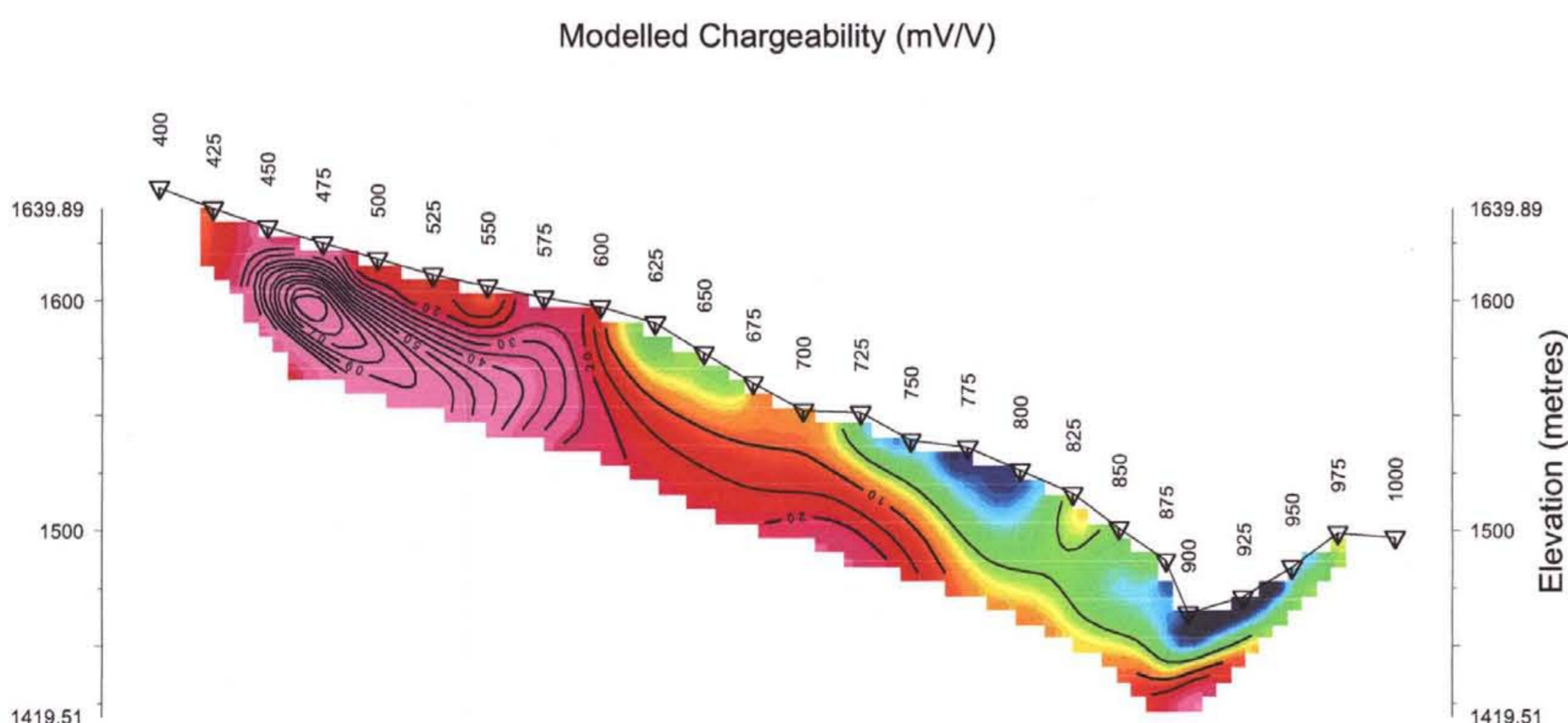
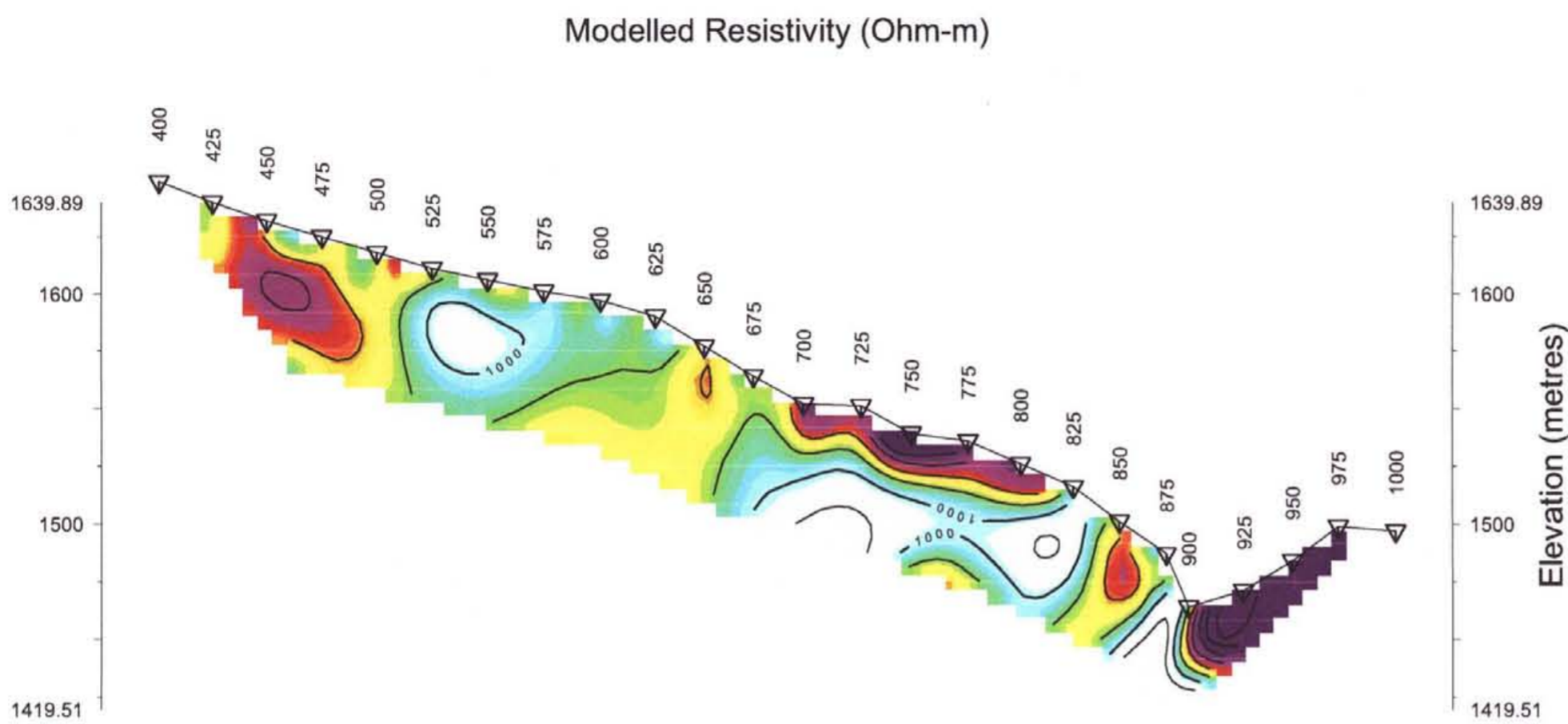


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GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT  
 29109



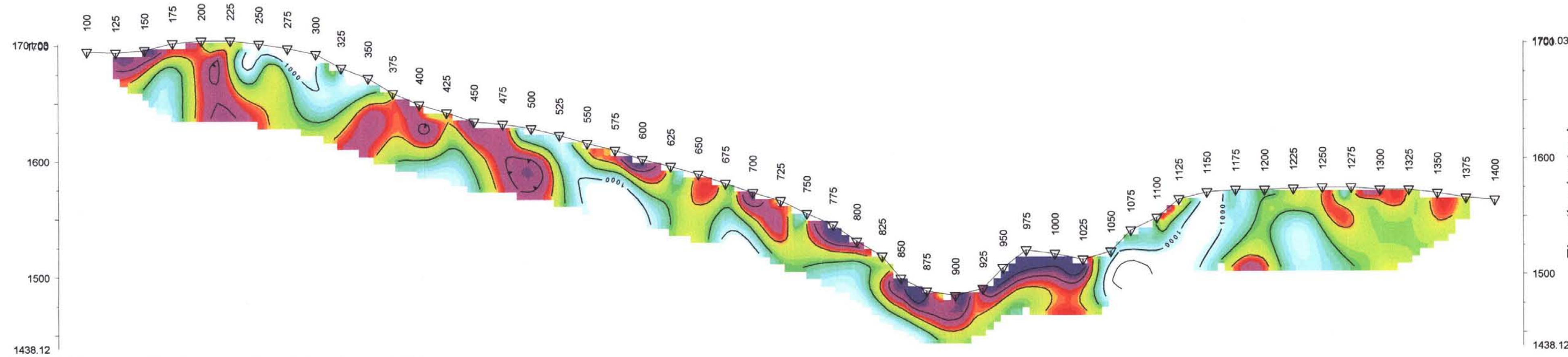




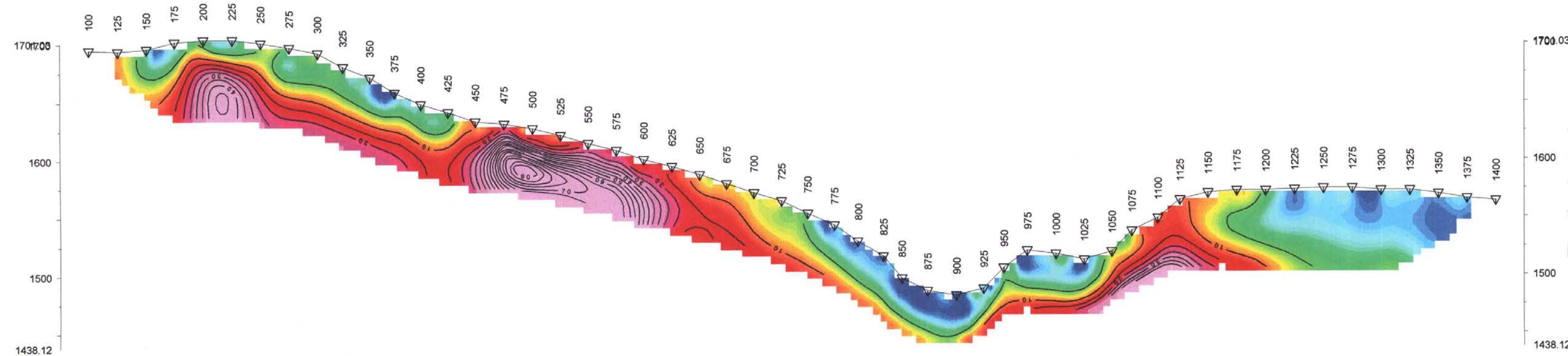
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 DUKE PROJECT  
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 INVERSION DATE: NOVEMBER 2005, RES2DINV  
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GEOLOGICAL SURVEY OF BRITISH COLUMBIA  
 ASSESSMENT SERVICES  
 2009

Modelled Resistivity (Ohm-m)

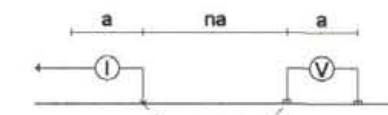


Modelled Chargeability (mV/V)



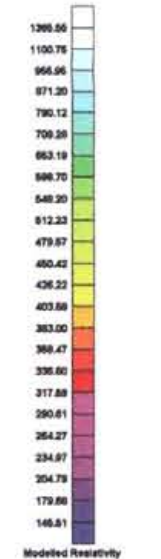
Line 900

Pole-Dipole Array

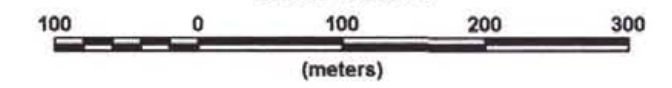


plot point

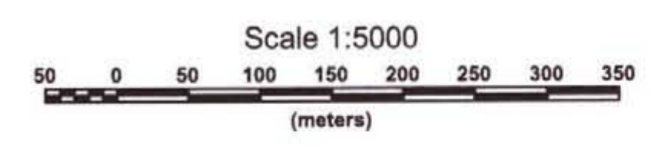
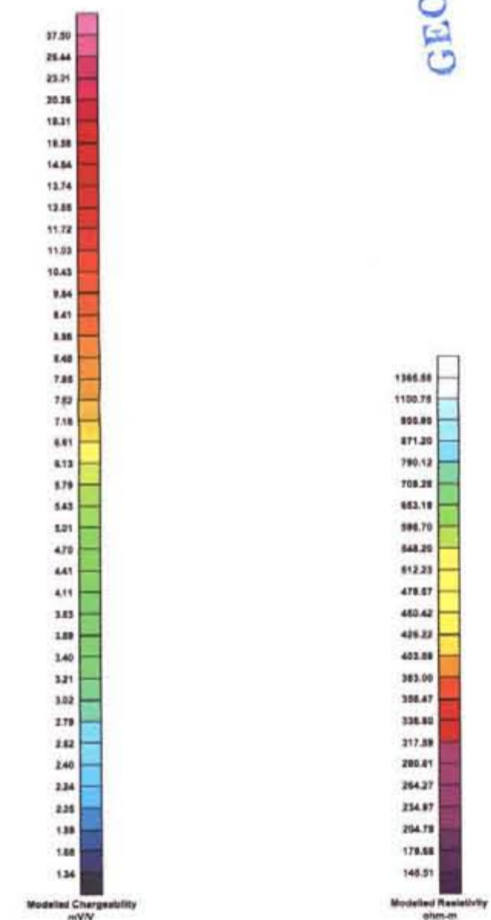
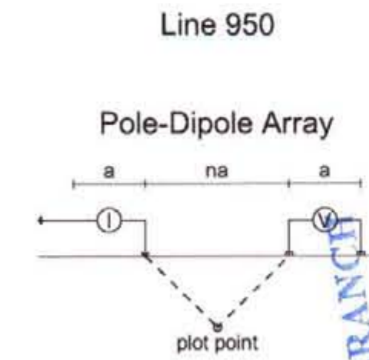
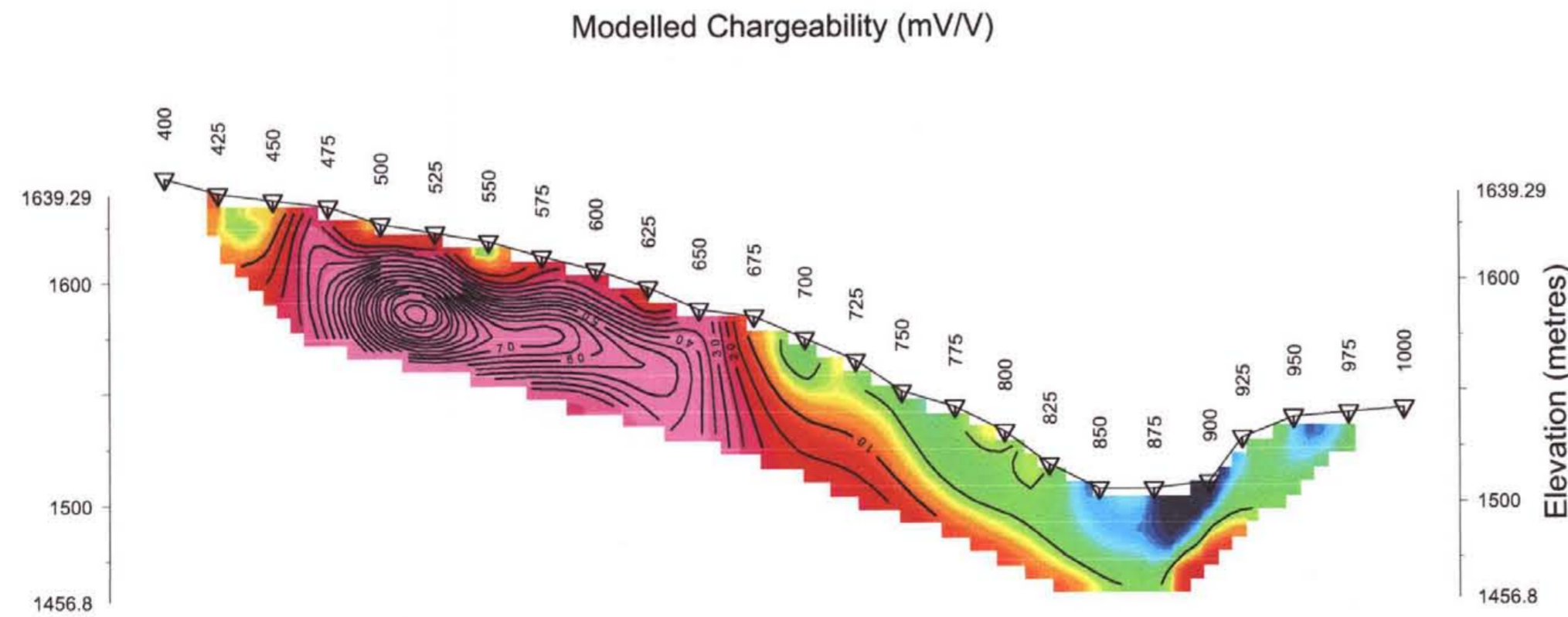
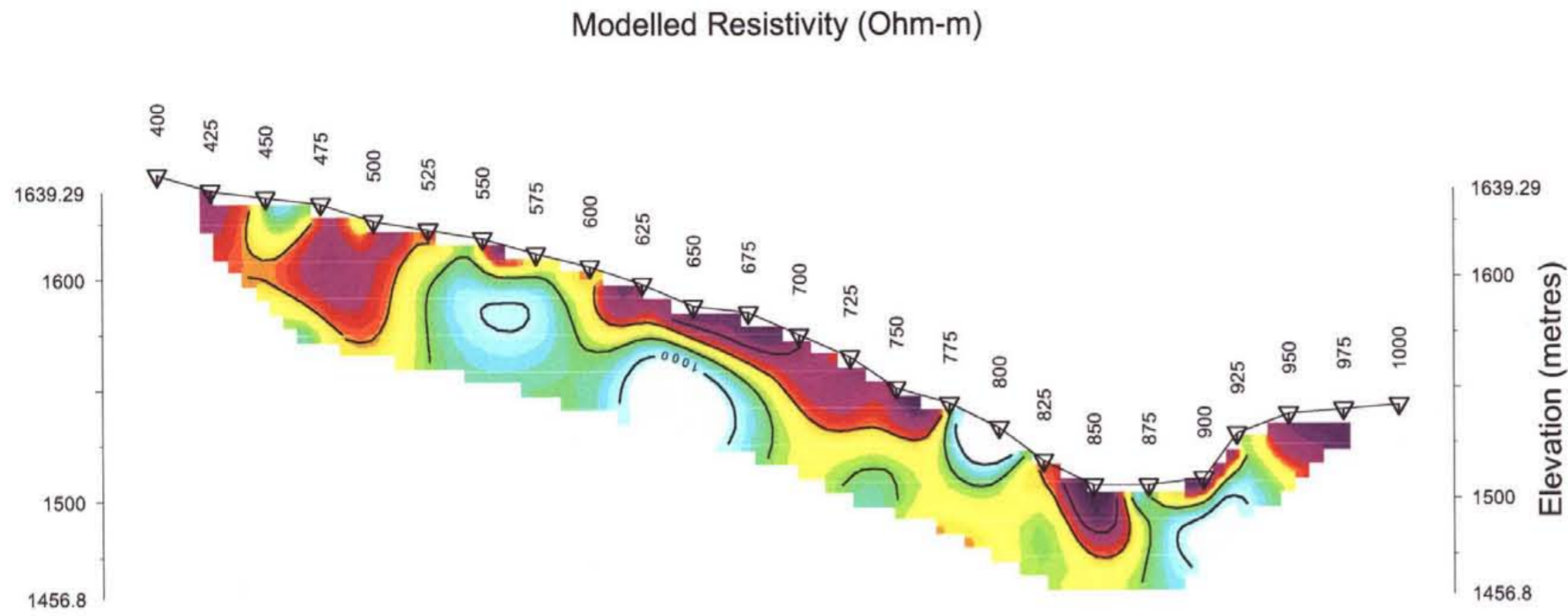
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT



Scale 1:5000



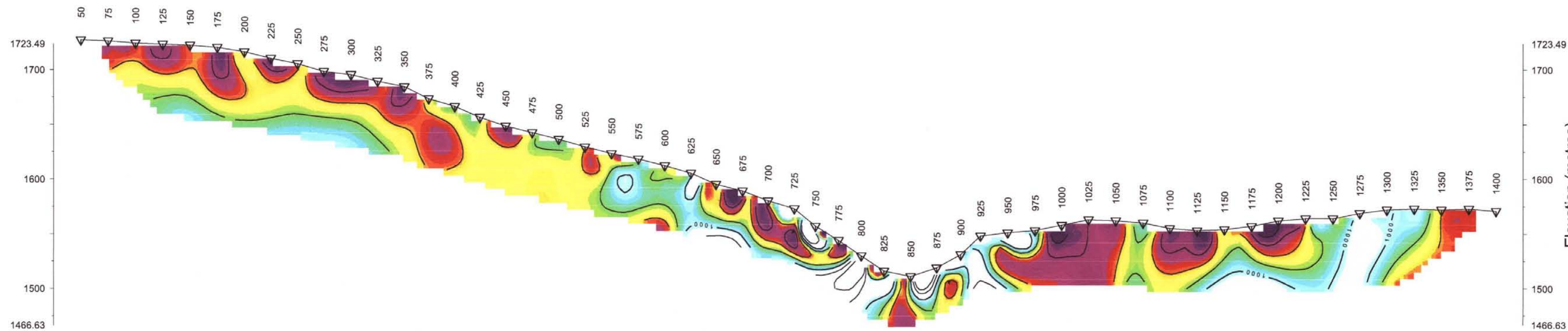
|   |
|---|
| <b>FREGOLD VENTURES LIMITED</b>         |
| INDUCED POLARIZATION SURVEY             |
| DUKE PROJECT                            |
| MERRIT, BRITISH COLUMBIA                |
| INVERSION DATE: NOVEMBER 2005, RES2DINV |
| PETER E. WALCOTT & ASSOCIATES LIMITED   |



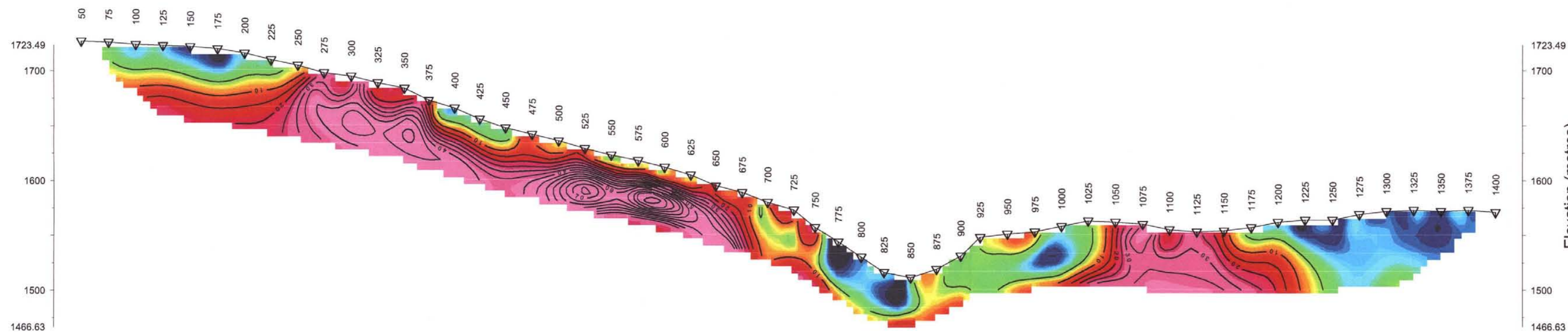
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**INDUCED POLARIZATION SURVEY**  
**DUKE PROJECT**  
**MERRIT, BRITISH COLUMBIA**  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
 PETER E. WALCOTT & ASSOCIATES LIMITED

GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT  
 20109

Modelled Resistivity (Ohm-m)

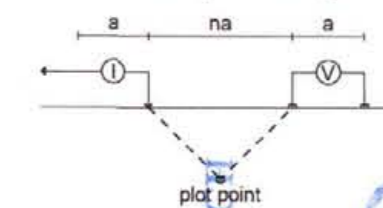


Modelled Chargeability (mV/V)



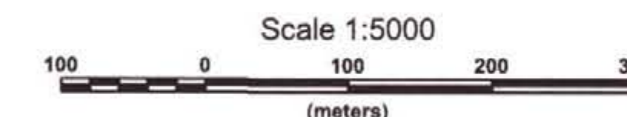
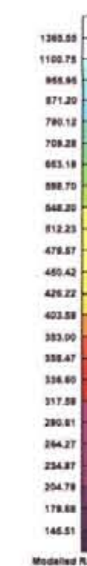
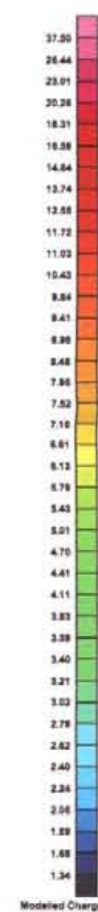
Line 1000

Pole-Dipole Array

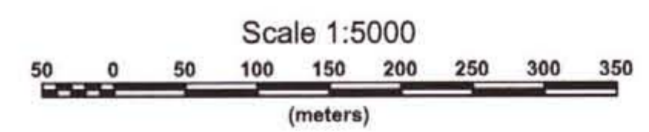
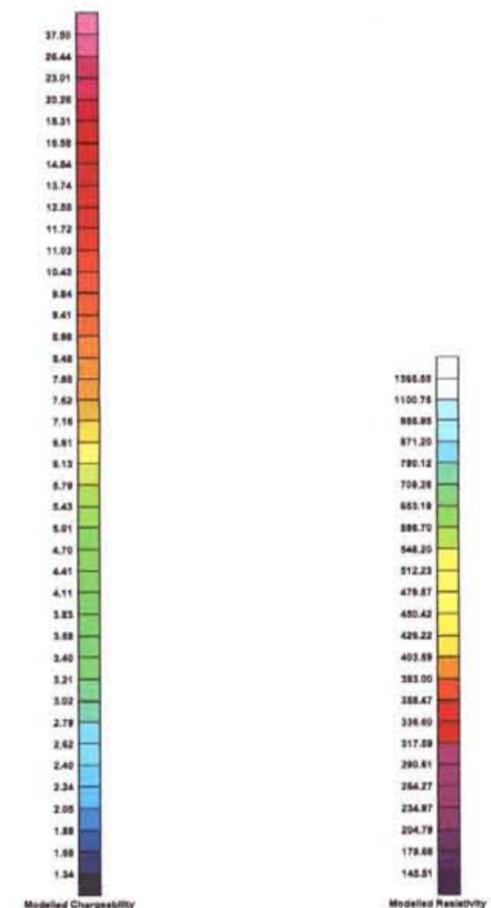
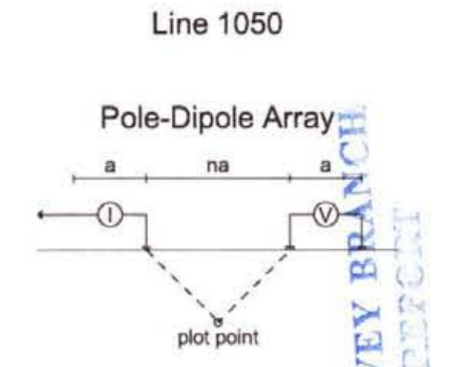
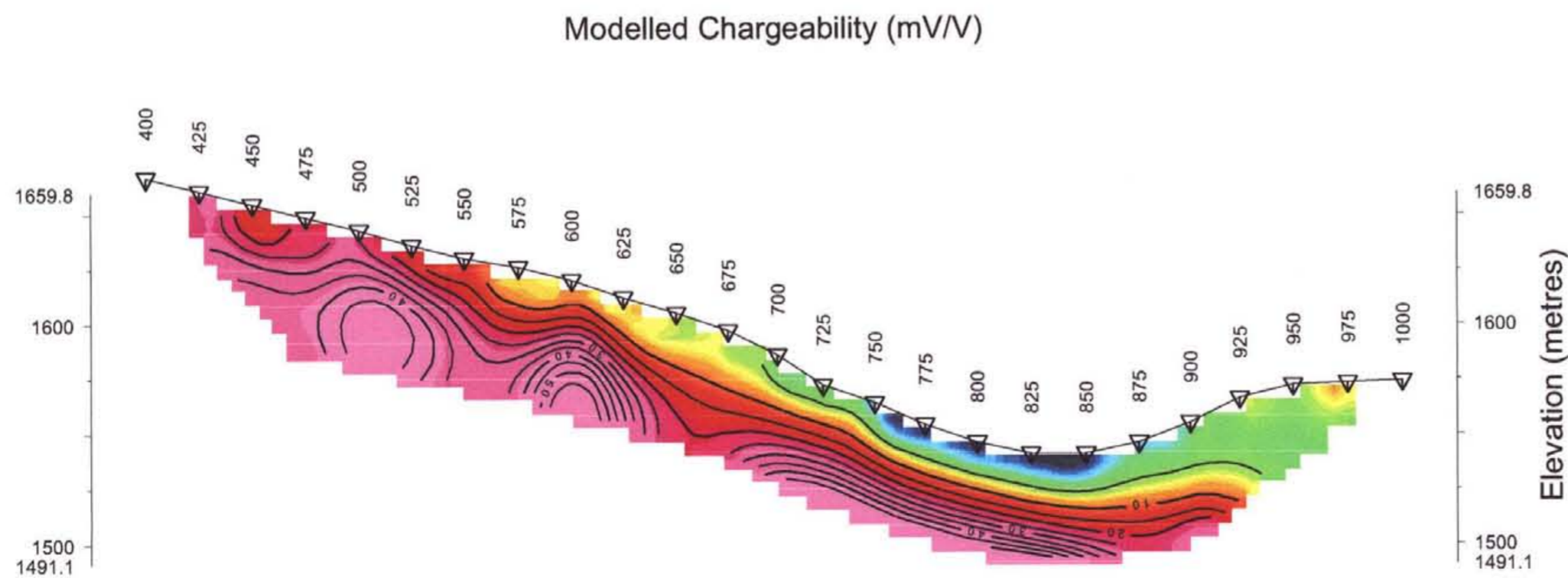
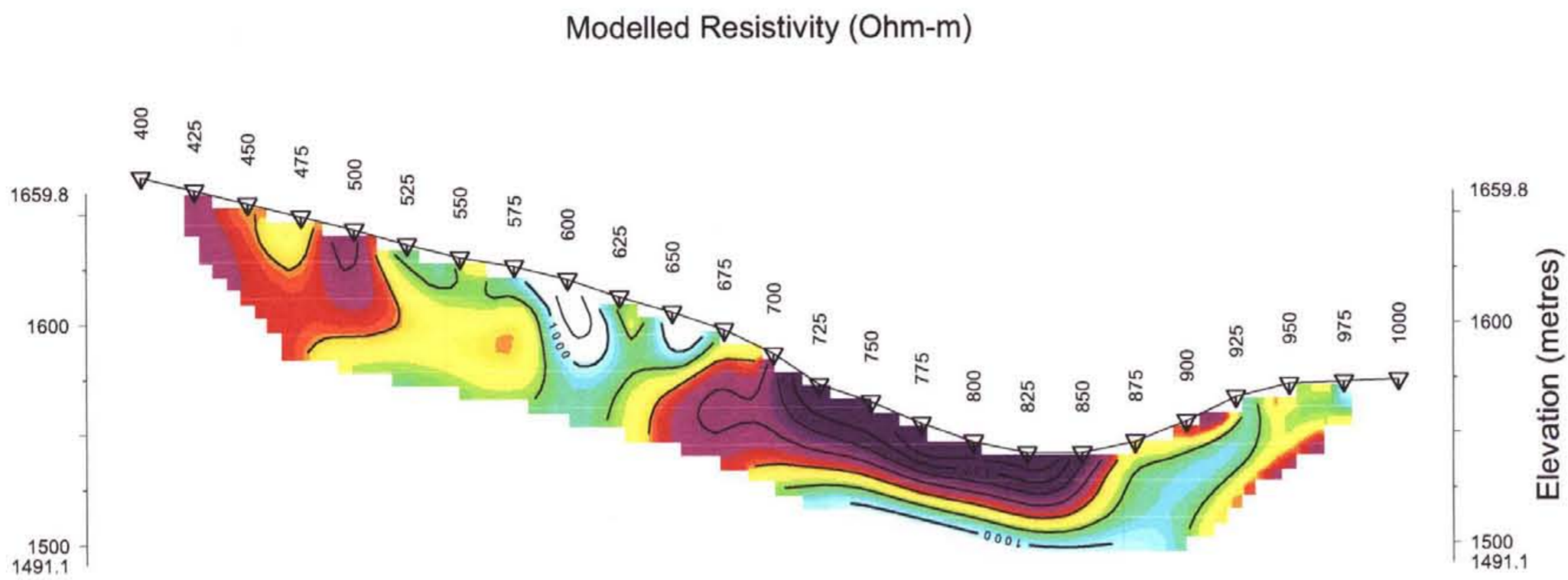


GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT

2009



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 INDUCED POLARIZATION SURVEY  
 DUKE PROJECT  
 MERRIT, BRITISH COLUMBIA  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
 PETER E. WALCOTT & ASSOCIATES LIMITED

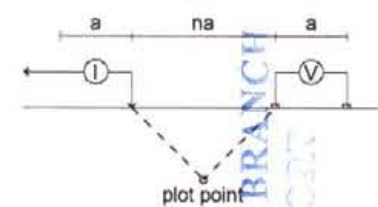


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 INVERSION DATE: NOVEMBER 2005, RES2DINV  
 PETER E. WALCOTT & ASSOCIATES LIMITED

GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT  
 20109

Line 1100

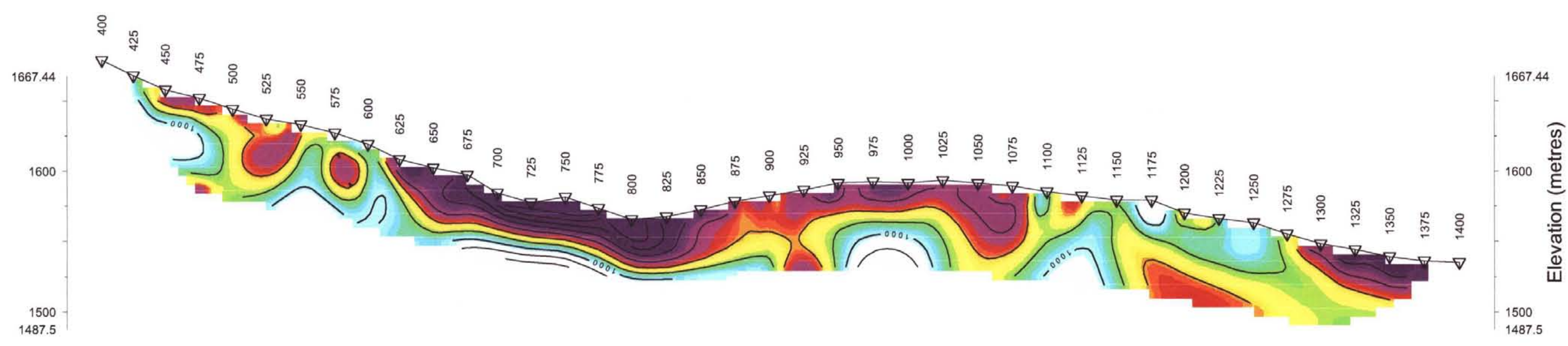
Pole-Dipole Array



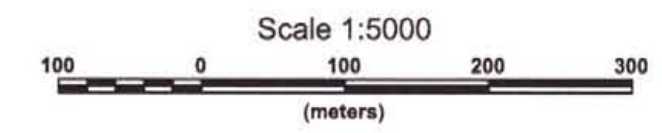
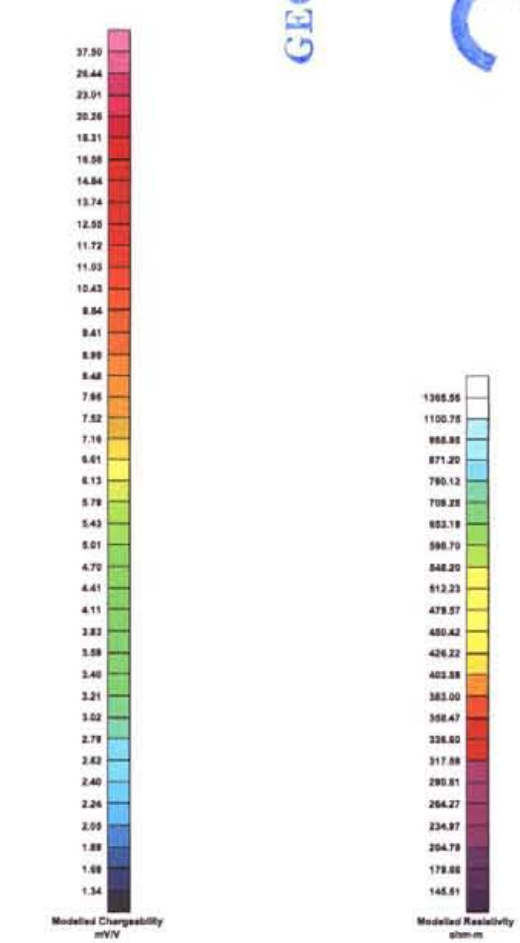
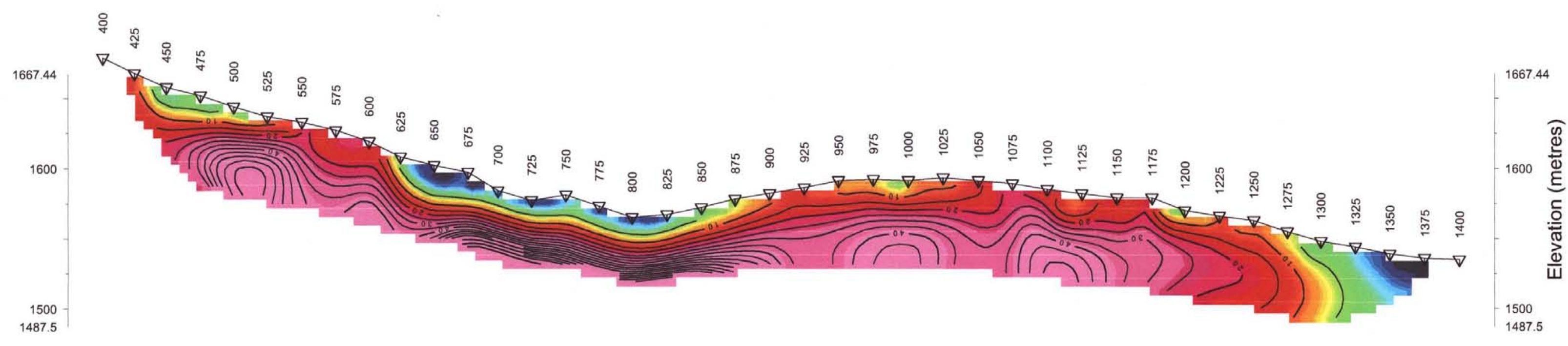
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

29,109

Modelled Resistivity (Ohm-m)



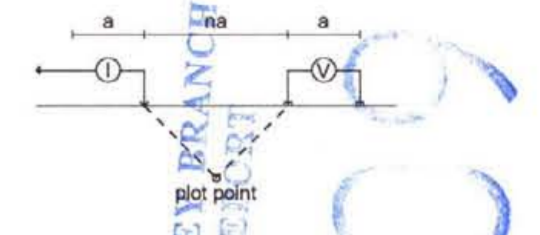
Modelled Chargeability (mV/V)



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 INDUCED POLARIZATION SURVEY  
 DUKE PROJECT  
 MERRIT, BRITISH COLUMBIA  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
 PETER E. WALCOTT & ASSOCIATES LIMITED

Line 1200

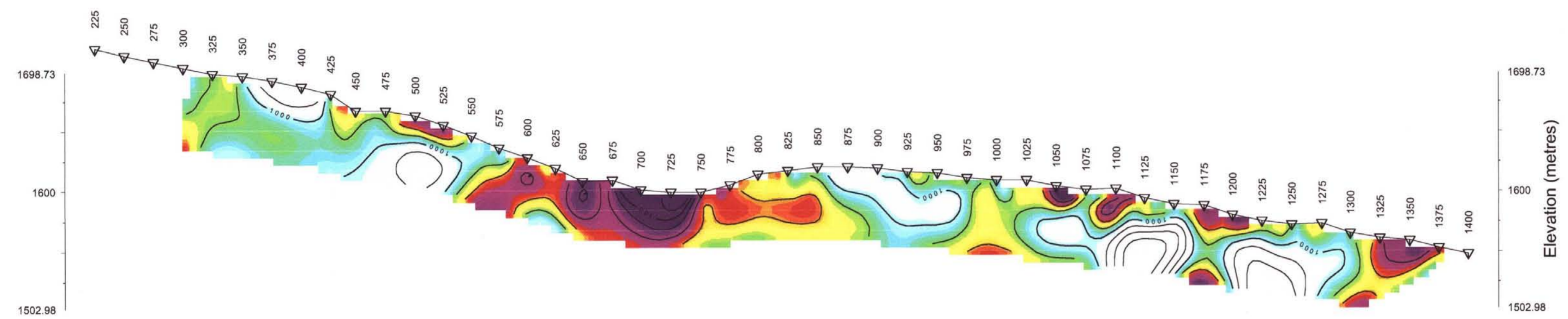
Pole-Dipole Array



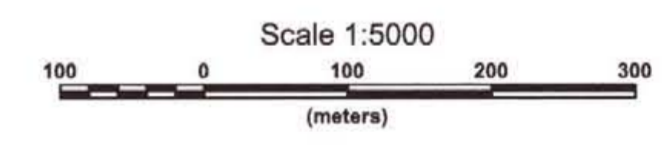
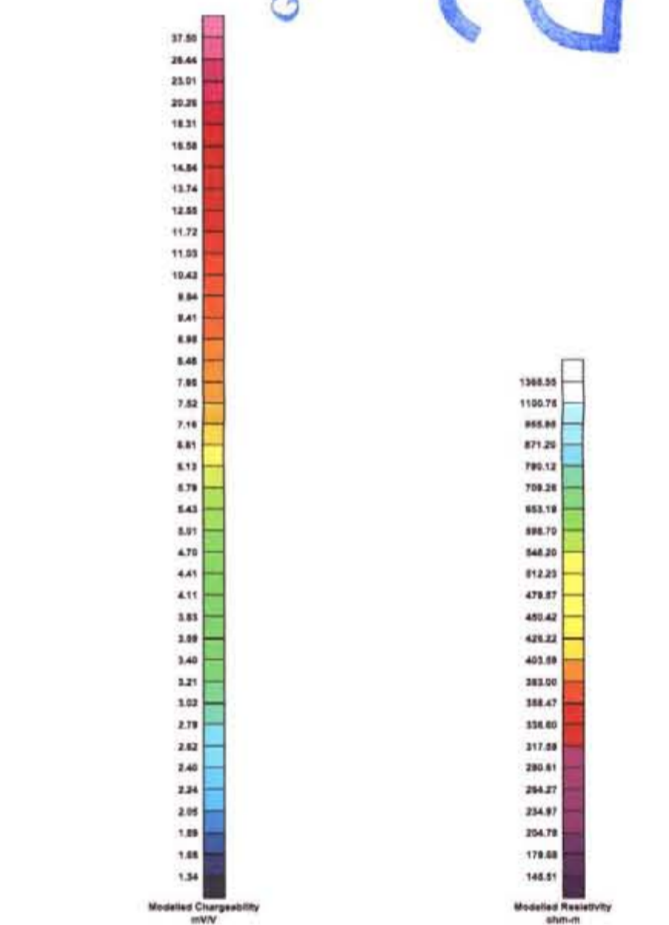
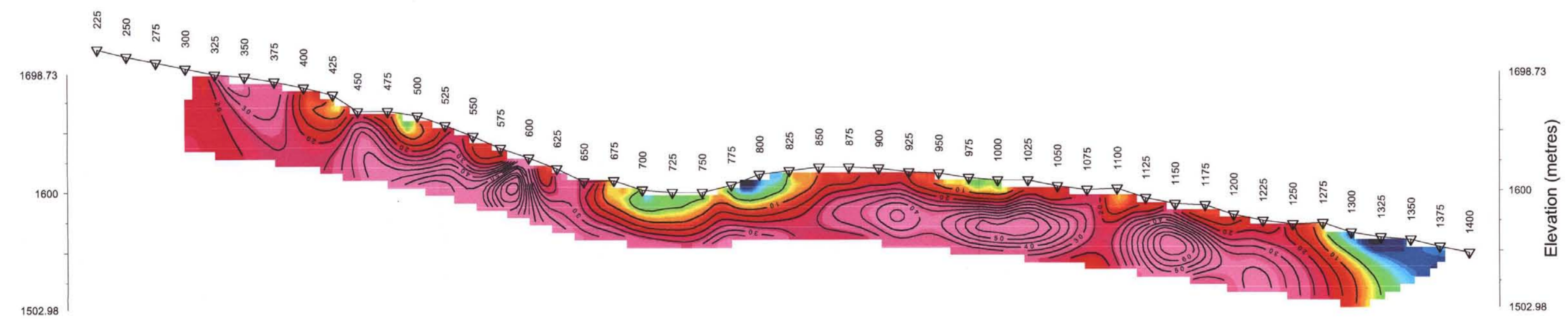
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

29,109

Modelled Resistivity (Ohm-m)

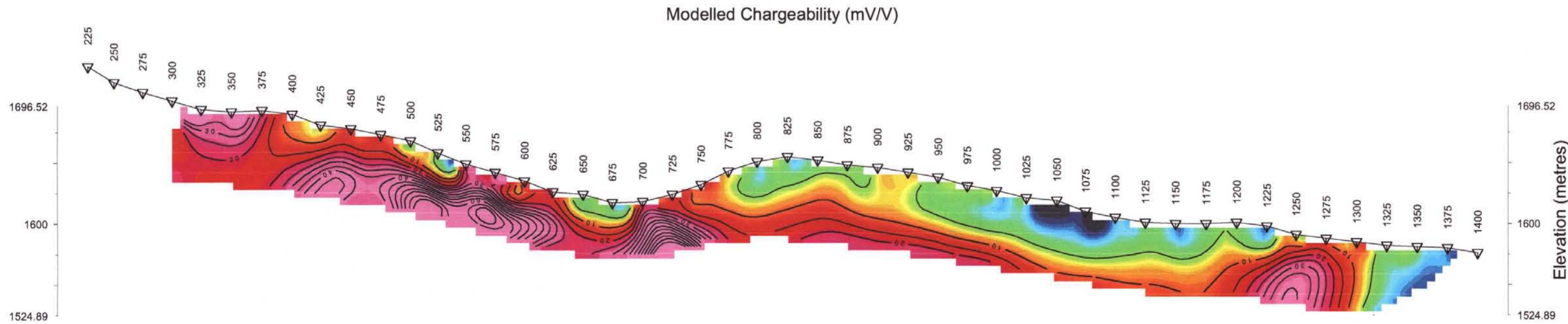
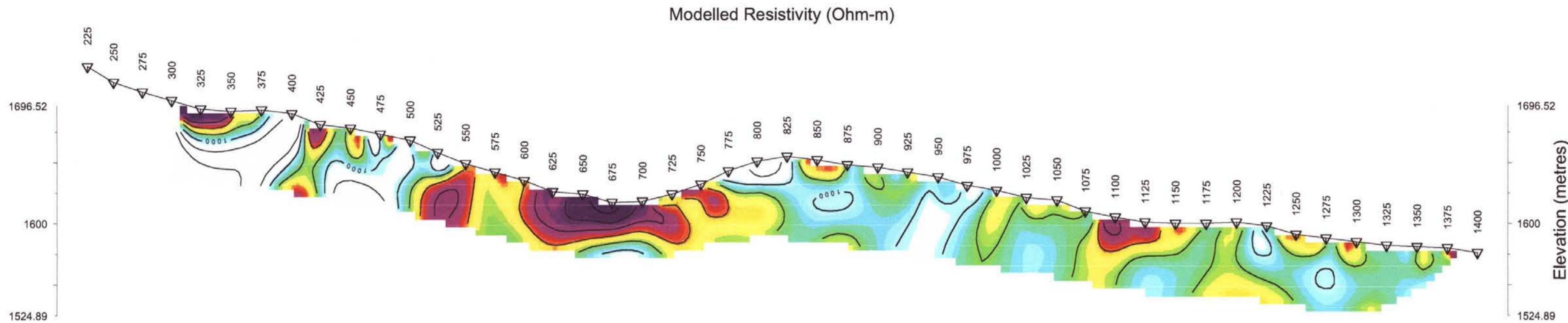


Modelled Chargeability (mV/V)

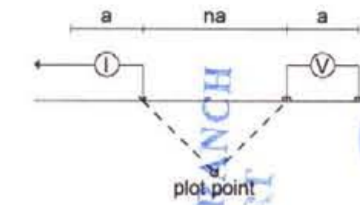


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DUKE PROJECT  
MERRIT, BRITISH COLUMBIA  
INVERSION DATE: NOVEMBER 2005, RES2DINV  
PETER E. WALCOTT & ASSOCIATES LIMITED



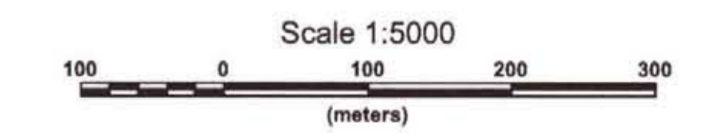
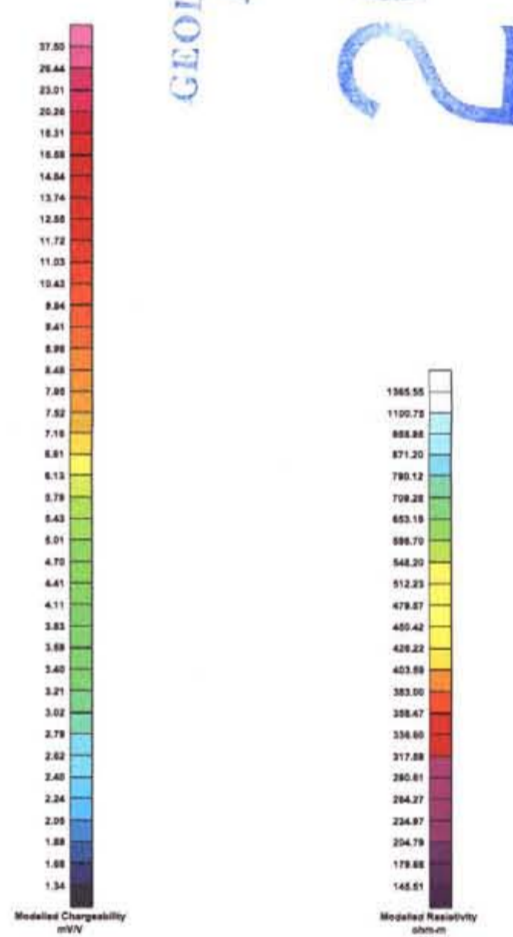


Line 1300  
Pole-Dipole Array



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

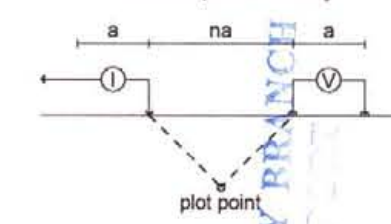
29,109



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 INDUCED POLARIZATION SURVEY  
 DUKE PROJECT  
 MERRIT, BRITISH COLUMBIA  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
 PETER E. WALCOTT & ASSOCIATES LIMITED

Line 1400

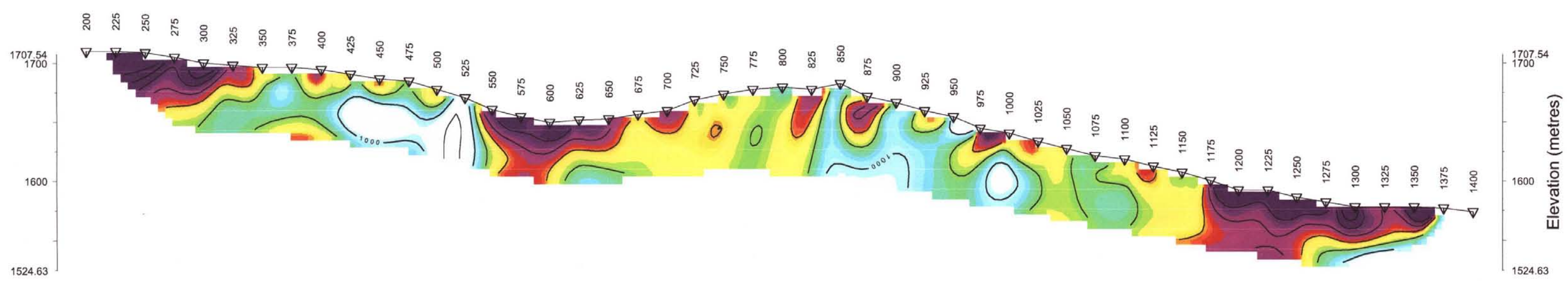
Pole-Dipole Array



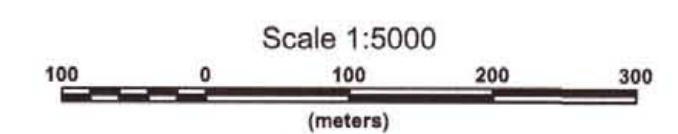
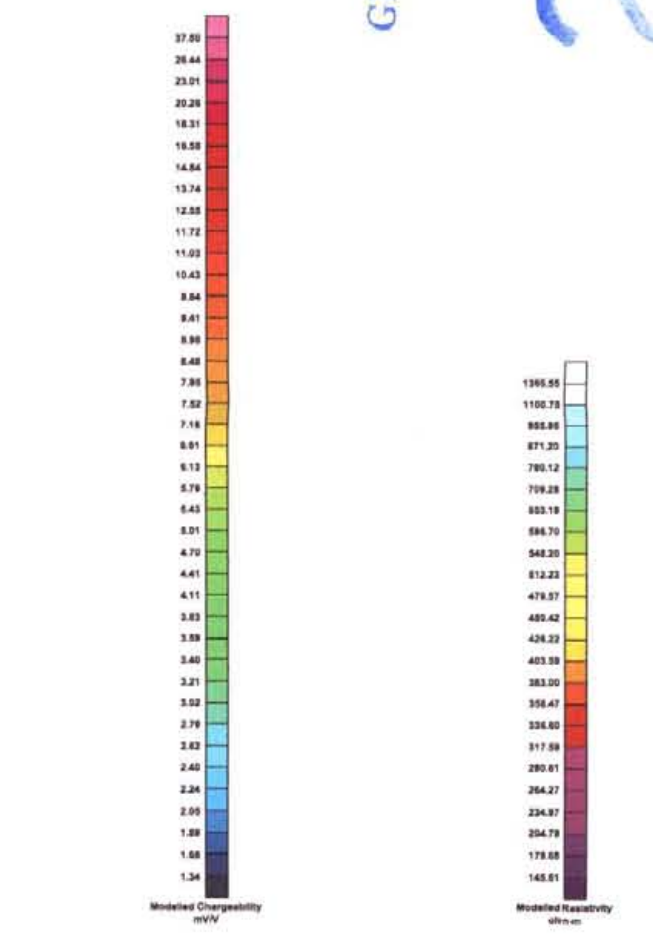
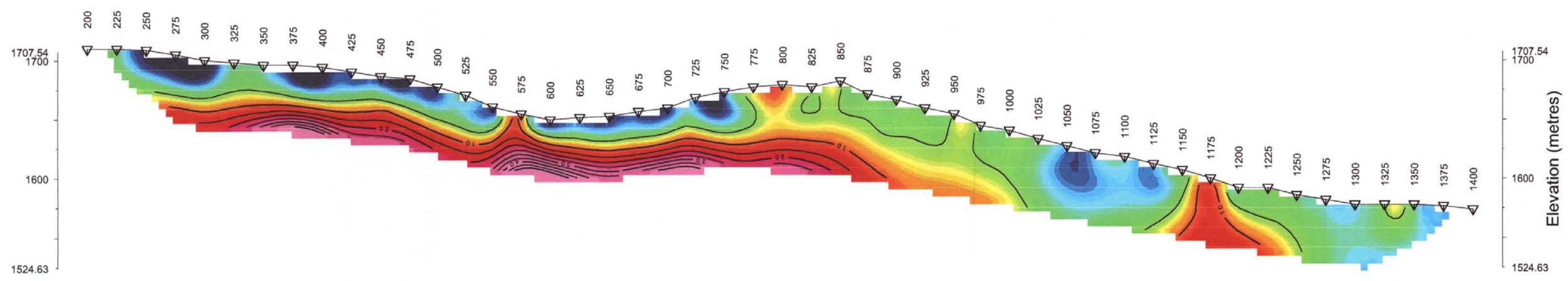
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT

29,109

Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)



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 DUKE PROJECT  
 MERRIT, BRITISH COLUMBIA  
 INVERSION DATE: NOVEMBER 2005, RES2DINV  
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