

**GEOPHYSICAL  
ASSESSMENT REPORT  
ON THE**

**CATALAN COPPER PROPERTY**

McLeese Lake Area, B.C.

NTS Map No. 93B/09

52°30'N Latitude  
122°10'W Longitude

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

28,544

For: Operator,  
**Stikine Gold Corporation**  
490-1122 Mainland St.  
Vancouver, B.C. V6B 5L1

Owner,  
**Michael Moore**  
Vancouver, B.C.

**RECEIVED**  
OCT 4 - 2006  
Gold Commissioner's Office  
VANCOUVER, B.C.

Prepared By: John M. Mirko

Date: October 01, 2006

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Copper Property. Dated July, 2006 By: Peter E. Walcott, P.Eng.

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	(Lines 1, 2, 3, 250, 350 and 400)	

## **1.0 SUMMARY:**

A geophysical survey, as more fully described in Appendix I, was carried out over portions of the Catalan Project Area in September 2005.

Result and recommendations of that work are included in this report.

## **2.0 INTRODUCTION:**

The Catalan Property is contained within NTS Map Sheet No. 93B/09 and consists of seven mineral claims. The property is located about 13km northeast of McLeese Lake, B.C. and 4km east of the Gibraltar Mine complex, in the Cariboo Mining Division.

The 2005 work program consisted of line establishment and subsequent Induced Polarization and Magnetic Surveys over a portion of the claims containing a target area evidenced by the results of soil geochemistry.

## **3.0 LOCATION AND ACCESS:**

The claims are located 13km northeast of McLeese Lake and are accessible by a network of seasonal logging and mining roads connected to Highway 97.

## **4.0 PHYSIOGRAPHY AND CLIMATE:**

Topographic relief in the claim area is moderate within elevations ranging from 1,050 to 1,250 meters.

The area has a moderate climate with cold winters and warm summers. Air temperature ranges from -34°C to 35°C with annual precipitation of approximately 51cm, of which 17cm is snow. Maximum snow depth of one meter occurs in late February.

The area is covered by both logged and unlogged forest vegetation consisting of spruce, fir and pine trees with poplar, birch and alder common. Clearings, swamps and gullies are vegetated with willow, wild rose, grasses and shrubs.

## **5.0 MINERAL CLAIM DATA:**

Pending acceptance of this assessment report, the mineral claims (see map) will be in good standing until at least June 13, 2007.

The property consists of seven mineral claims named AP1 to 6 and AP8, Tenure numbers 514437, 514445, 514505, 514507, 514772, 514778 and 520274.

## **6.0 EXPLORATION HISTORY:**

The earliest record of work in the area was on the Rainbow Claims near the Pollyanna pit at the Gibraltar Mine, 4km to the west, in 1917.

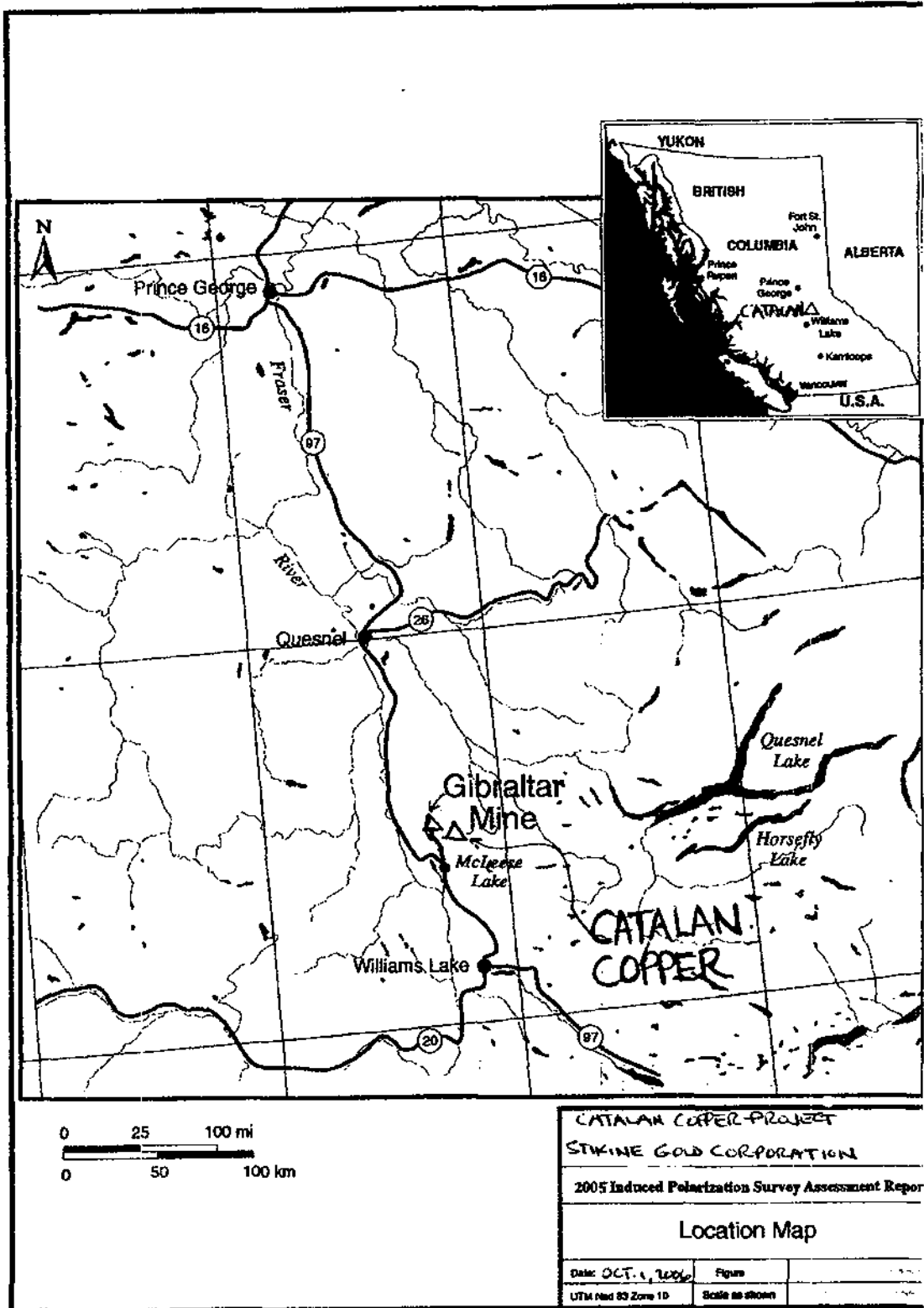
Subsequent work, partly on the existing claims, consisted of soil and silt geochemical surveys in 1970 (Assessment Report 3080), induced polarization in 1970 (Assessment Report 2936), and a soil geochemical survey by United Gunn Resources Ltd. In 1991 (Assessment Report 25682).

## **7.0 GEOPHYSICAL SURVEY:**

See Appendix I

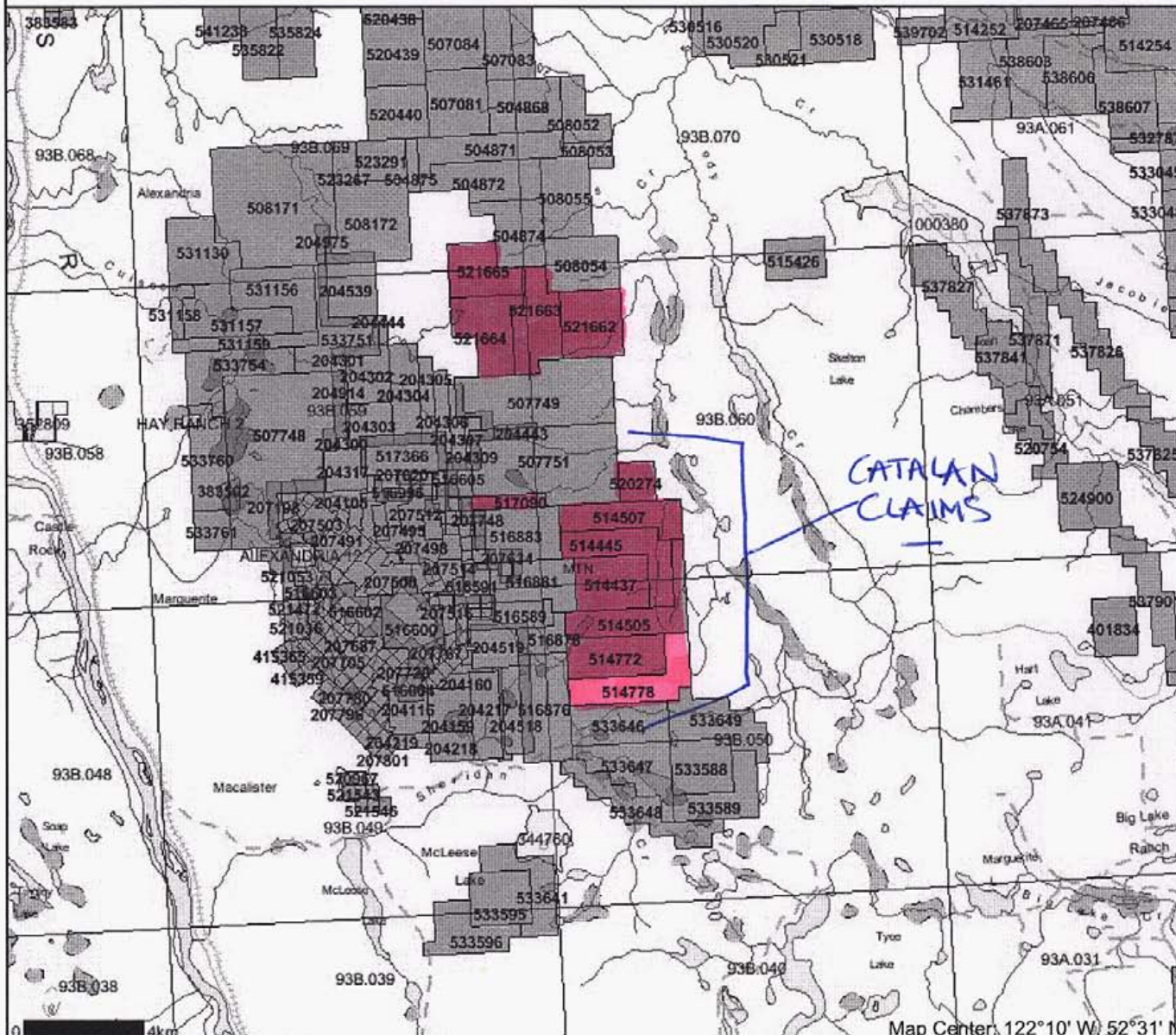
## **8.0 CONCLUSIONS AND RECOMMENDATIONS:**

The geophysical program was successful in identifying 2 significant anomalies that coincide with a large copper soil geochemical anomaly. These anomalies should be tested by diamond drilling.



Map created Wed Sep 20 17:23:19 PDT 2006

### Legend



- Indian Reserves
- National Parks
- Parks
- 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
- BCGS Grid
- Annotation (1:250K)
- Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown
- Airport/Abandoned
- Transportation - Lines (1:250K)
- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes
- Road (Paved,lanes.2or More,Divided)
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes
- Road - Paved,lanes.2or More,Undivided
- Road (Unimproved)
- Road - Loose,access Dry Weather
- Road (Winter Road)
- Road - Paved,lanes.2,Undivided
- Road - Paved,lanes.2,Undivided,W/C
- Road - Paved,Divided,access,Non Standard
- Track - Car/Tractor
- Causeway (Railway)
- Cut (Roadway)
- Trail
- Tunnel
- Bridge
- Rail Line - Narrow Gauge - Single Track
- Rail Line (Multiple Track)
- Rail Line (Single Track)
- Rail Line - Abandoned Track
- Cable - Telephone

Scale: 1:218,074

DO NOT USE FOR NAVIGATION



Map Center: 122°10' W, 52°31' N

A

**STATEMENT OF COSTS:**


Geophysical Report all in (See Attached Report)	\$13,668.00
Report Preparation	\$400.00
Map Copies, Printing	\$200.00
Project Supervision	<u>\$400.00</u>
Total	\$14,668.00

**STATEMENT OF QUALIFICATIONS:**

I, John M. Mirko, hereby certify that:

- 1) Since 1972, I have practiced my profession of prospecting and property evaluation including all phases of surface and underground exploration.
  
- 2) Clients and employers include;  
Manex Mining inc. 1972  
Sumitomo Metal Mining Canada inc. 1973  
Kerr Addison Mines Ltd. 1974-75  
Newconex Ltd. 1976  
And,  
Self employed to date with clients including,  
Hudson Bay Mining and Smelting Canada Inc., Galore Creek Area.  
U.S. Steel Ltd., Quesnel Area.  
Skylark Resources Ltd. And Pacific Rim Mining Corporation, worldwide.

Sincerely,

  
John M. Mirko

October 01, 2006



**References:**

Allen, A.R., 1971. Geophysical, Geochemical Survey, GR 1-20 claims. AR No. 3080;  
Ash, C.H., Panteleyen, A., Maclellan, K.L., Payne, C.W., and Rydman, M.O., 1998.  
Geology of the Gibraltar Mine Area, (93B/08 & 09). British Columbia Ministry of  
Energy and Mines, Open File 1998-7.

Baird, Jon,G., June 30, 1970, Assessment Report on Induced Polarization Survey,  
No.2936.

Payne, C.W., 1991, Soil Geochem Report on the Copper King Project, A.R. No. 25682.

## **Appendix I**

Report on Magnetic and Induced Polarization Surveying, Catalan  
Copper Property. Dated July, 2006 By: Peter E. Walcott, P.Eng.

**A REPORT**

**ON**

**MAGNETIC & INDUCED POLARIZATION SURVEYING**

**Catalan Copper Property  
McLeese Lake Area, B.C.  
52° 30'N, 122° 10' W  
N.T.S. 93B/09**

**FOR**

**STIKINE GOLD CORPORATION  
Vancouver British Columbia**

**BY**

**PETER E. WALCOTT & ASSOCIATES LIMITED  
Vancouver, British Columbia  
JULY 2006**

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### APPENDIX

Cost of Survey  
 Personnel Employed on Survey  
 Certification

### ACCOMPANYING MAPS 1:5,000

### MAP POCKET

LINE LOCATION MAP

POSTINGS OF TOTAL FIELD INTENSITY

I.P. PSEUDO SECTIONS – Lines 1, 2, 3, 250,350 & 400

## **INTRODUCTION.**

Between September 14<sup>th</sup> and 17<sup>th</sup>, 2005, Peter E. Walcott and Associates Limited undertook induced polarization (I.P.) and magnetic surveying over parts of the Catalan Copper Property, located adjacent to Gibraltar Mine holdings near McLeese Lake, British Columbia, for Michael Moore.

The survey was carried out over six randomly oriented lines established by the geophysical crew along or off existing logging roads.

Readings of the earth's total magnetic field were recorded using a GSM 19 proton magnetometer on the magnetic survey.

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

The data are also presented as individual pseudo sections at a scale of 1:5,000 while the magnetic data are presented as coloured postings on a plan map of the lines at 1:5,000.

### **PROPERTY, LOCATION & ACCESS**

The property, known as the Catalan Copper Property, is located in the Cariboo Mining District of British Columbia.

It is situated some 13 kilometres northeast of the village of McLeese Lake, on Highway 97.

Access was obtained by means of two wheel drive vehicle along the many logging roads that connect to the Beaver Valley road.

**PURPOSE.**

The purpose of the survey was to determine if there was any I.P. response over the existing geochemical anomalies and old showings in order to see if the method could be used to detect more areas of potential mineralization.

## SURVEY SPECIFICATIONS.

### Magnetic Survey.

The magnetic survey was carried out using a GSM 19 proton precession magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla. Corrections for daily variations in the earth's field – the diurnal – were made by comparison with a similar instrument set up at a fixed location – the base – where recordings were made at 10 second intervals.

### The Induced Polarization Survey.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which were manufactured by Hunttec Limited of Metropolitan Toronto, Canada and Iris Instruments of Orleans, France.

The system consists basically of three units, a receiver (Iris), transmitter (Hunttec) and a motor generator (Hunttec). The transmitter, which provides a maximum of 7.5 kw d.c. to the ground, obtains its power from a 7.5 kw 400 c.p.s. three phase alternator driven by a Honda 20 h.p. 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<sub>1</sub> and C<sub>2</sub>, the primary voltages (V) appearing between any two potential electrodes, P<sub>1</sub> through P<sub>7</sub>, during the "current-on" part of the cycle, and the apparent chargeability, (M<sub>a</sub>) 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 ( $\hat{\rho}_a$ ) 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



## **SURVEY SPECIFICATIONS cont'd**

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 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.

On this survey a 50 metre dipole was employed and first to fifth separation readings were obtained. In all some 7.2 kilometres of I.P. and magnetic traversing were completed.

The survey was carried out along roads and traverses off of these roads, the latter established using the compass and chain technique. Numerous waypoints were recorded using a Garmin XL12 handheld GP unit to facilitate plotting the traverses on a plan map.

### **Data Presentation.**

The I.P. data are presented as individual pseudo section plots of apparent chargeability and resistivity at a scale of 1:5,000. Plots of the 21 point moving filter – illustrated on the pseudo section – for the above are also displayed in the top window to better show the location of the anomalous zones.

The magnetic data is presented as posted values and colour gridded plots along the traverses on a plan map of the same at 1:5,000.

## **DISCUSSION OF RESULTS**

The results of the survey suggest the area to exhibit a low chargeability background – 2 to 4 millivolts per volt – above which several anomalous zones are clearly discernible as illustrated on the respective pseudo sections.

The strongest of these could be associated with a north-south trending mineralized structure as suggested by the plots of Lines 1N, 3E and 400N, and possibly Line 250N.

A possible northwest trending feature could be attributable to the chargeability pattern seen on Lines 2E and 350E respectively – note random choice of line numbers.

The former anomaly would appear to be associated with the contact of a strong magnetic feature also trending northerly across the survey area as seen by the results on Lines 400N, 1N and 250N respectively, while the latter is generally associated with rocks exhibiting higher magnetic values.

## **SUMMARY, CONCLUSIONS & RECOMMENDATIONS**

Between September 14<sup>th</sup> and 17<sup>th</sup>, 2005, Peter E. Walcott & Associates Limited undertook limited magnetic and induced polarization surveys for Michael Moore over the property located on the eastern boundary of Gibraltar Mines holdings, near McLeese Lake, British Columbia.

The I.P. survey located the presence of a number of zones of anomalous chargeability response on the randomly oriented lines along the existing roads, with the suggestion that they could be representative of two north to northwesterly trending bands of sulphide mineralization.

As a result the writer recommends that the plots be compared with the existing ones of soil geochemistry, and if favourable then a grid be established over and beyond the coverage to date for the conduction of geochemical and geophysical surveys prior to investigation of the property by diamond drilling.

Respectfully submitted,

**PETER E. WALCOTT & ASSOCIATES LIMITED**

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

**Vancouver,  
British Columbia**

**July 2006**

**APPENDIX**  
=====

**COST OF SURVEY**

Peter E. Walcott & Associates Limited undertook the survey on a daily basis. Mobilization and reporting were extra so that the total cost of services provided was \$13,668.56.

**PERSONNEL EMPLOYED ON SURVEY.**

<b><u>Name</u></b>	<b><u>Occupation</u></b>	<b><u>Address</u></b>	<b><u>Dates</u></b>
Peter E. Walcott	Geophysicist	Peter E. Walcott & Associates Limited 506-1529 W, 6 <sup>th</sup> Ave. Vancouver, B.C.	Oct 21st, 2005 Jul 17 <sup>th</sup> – 19 <sup>th</sup> 2006
Andrea Cochrane	“	“	Sept. 14 <sup>th</sup> – 17th, 2005
Matt Chomin	“	“	“
P. Charlie	Geophysical Operator	“	“
S. Cruikshank	Geophysical Assistant	“	“
B. Lajeunesse	“	“	“
L. Alexander	“	“	“
J. Walcott	Report Prep.	Peter E. Walcott & Assoc. Limited	Jul. 19 <sup>th</sup> , 2006

**CERTIFICATION.**

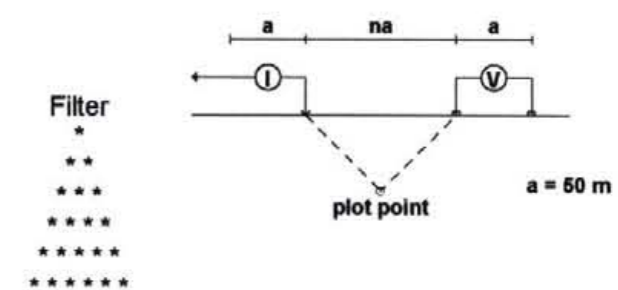
1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practicing my profession for the last forty four years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest,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

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

**Vancouver, B.C.  
July 2006**

# L250

## Pole-Dipole Array



Instruments: HUNTEX MARK IV 7.5 kw Tx, ELREC PRO Rx

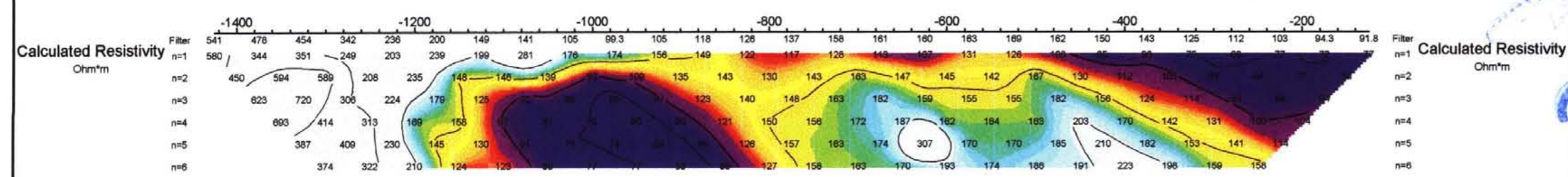
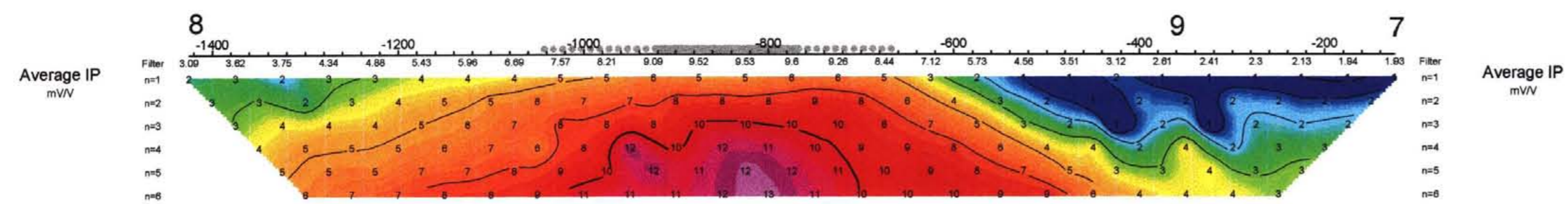
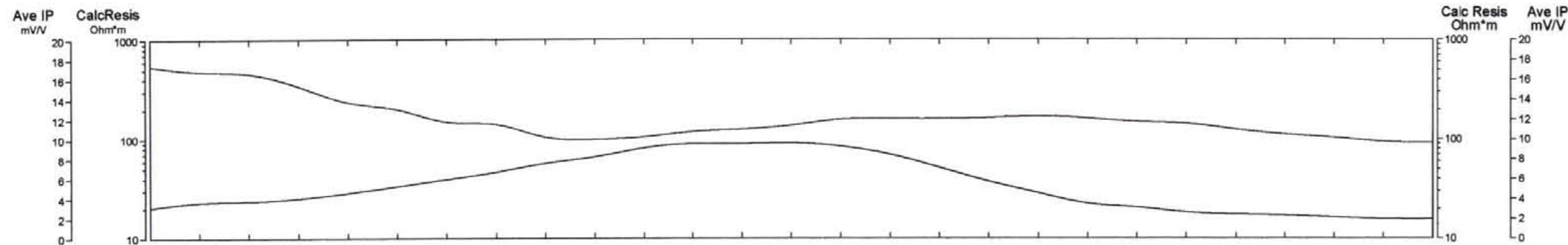
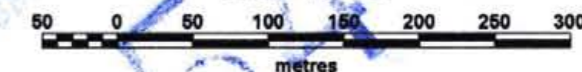
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Operators: A.C., P.C., A.L.

Logarithmic Contours: 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 1:5000



2015  
GEOLOGICAL SURVEY BRANCH  
PERMITTING REPORT

MICHAEL MOORE

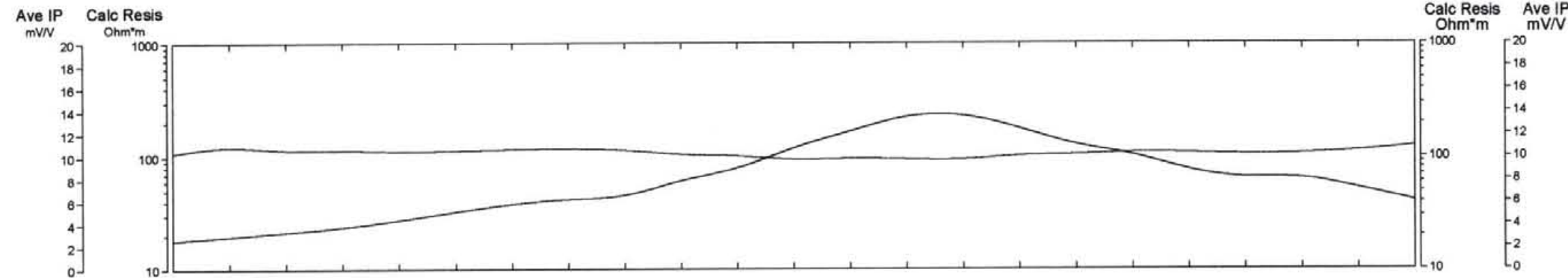
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MCLEESE LAKE AREA PROJECT

Date: SEPTEMBER 2005  
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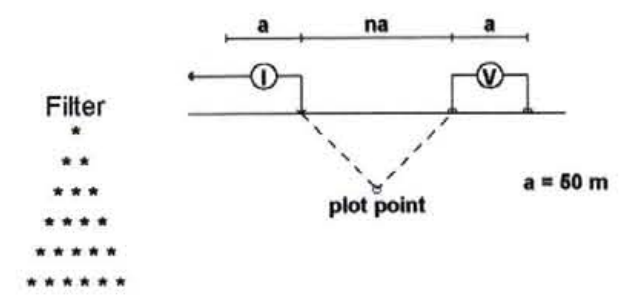
PETER E. WALCOTT & ASSOCIATES LIMITED



# L350



## Pole-Dipole Array



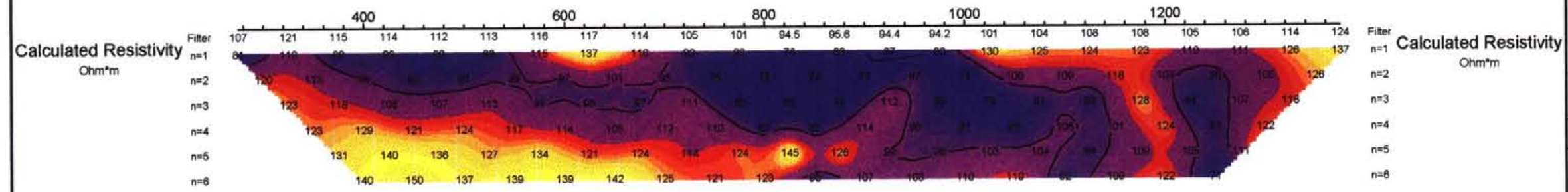
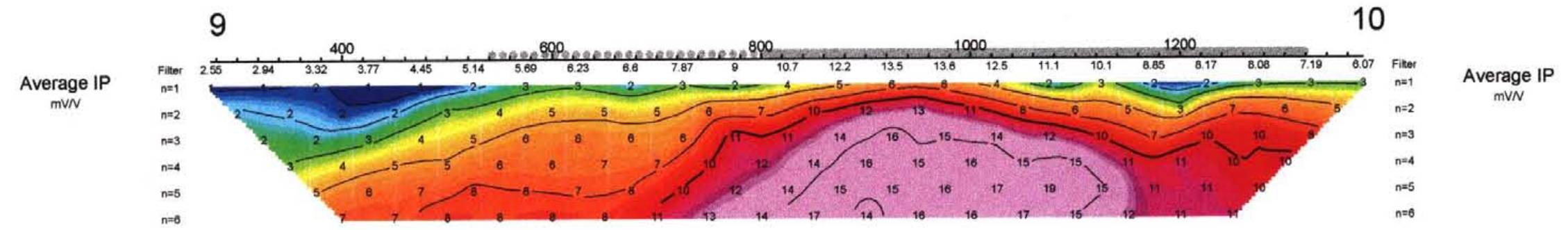
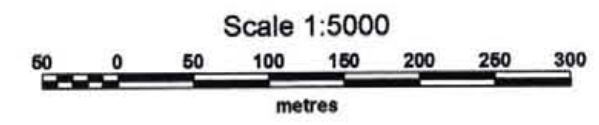
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Frequency: 0.125 Hz.  
Operators: A.C., P.C., A.L.

Logarithmic Contours: 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.

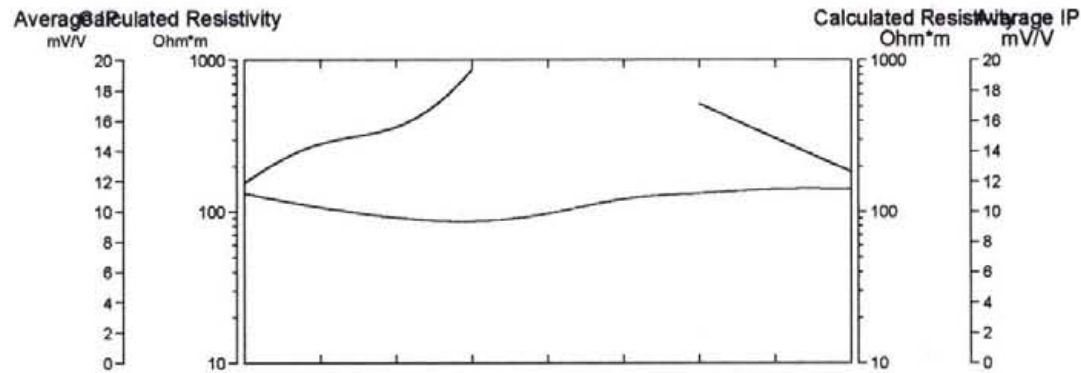


MICHAEL MOORE

INDUCED POLARIZATION SURVEY  
MCLEESE LAKE AREA PROJECT

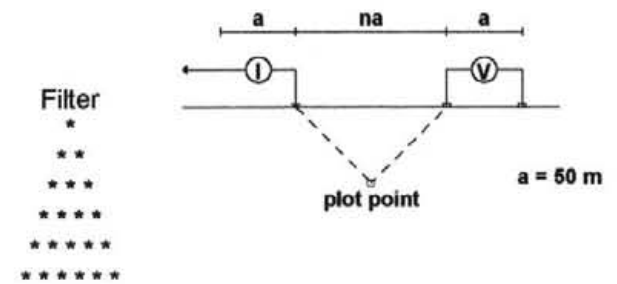
Date: SEPTEMBER 2005  
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED



L400

Pole-Dipole Array



Instruments: HUNTEX MARK IV 7.5 kw Tx, ELREC PRO Rx

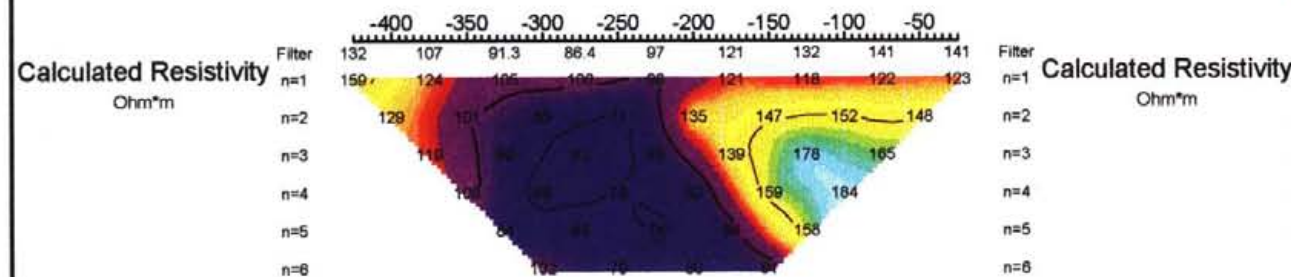
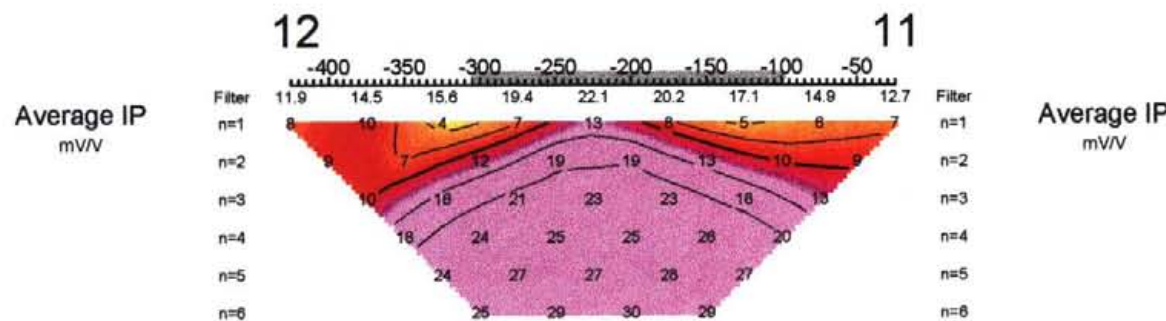
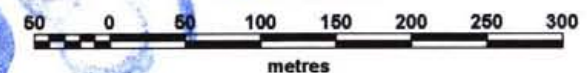
Frequency: 0.125 Hz.  
Operators: A.C., P.C., A.L.

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

INTERPRETATION

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- Resistivity feature.

Scale 1:5000

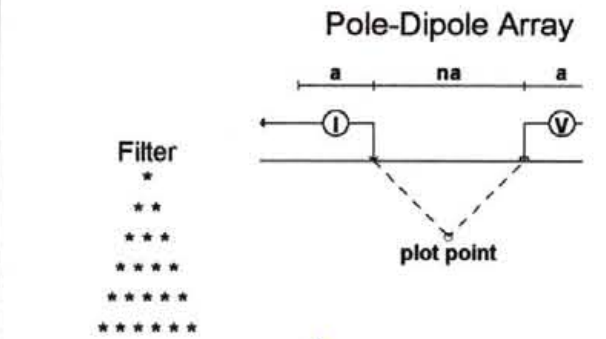
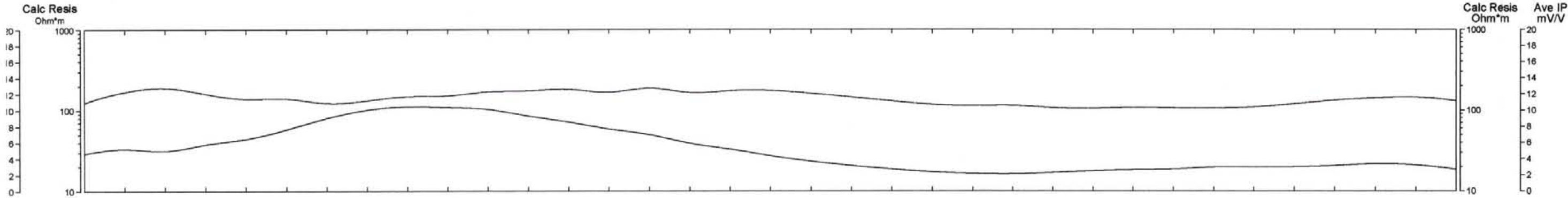


MICHAEL MOORE

INDUCED POLARIZATION SURVEY  
MCLEESE LAKE AREA PROJECT

Date: SEPTEMBER 2005  
Interpretation:

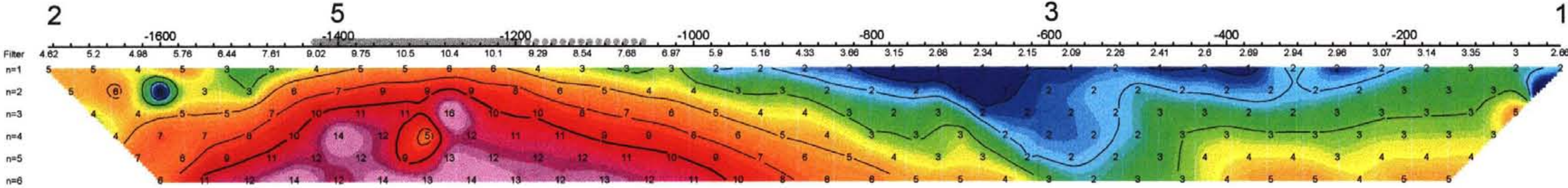
PETER E. WALCOTT & ASSOCIATES LIMITED



Instruments: HUNTEX MARK IV 7.5 kw Tx, ELR

Frequency: 0.125 Hz.  
Operators: A.C., P.C., A.L.

Logarithmic Contours: 1, 5, 2, 3, 5, 7.

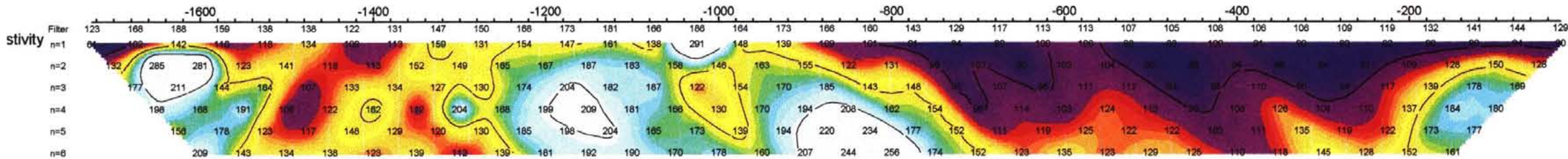
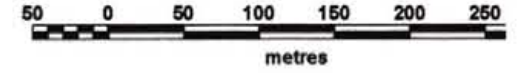


Average IP  
mV/V

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Scale 1:5000



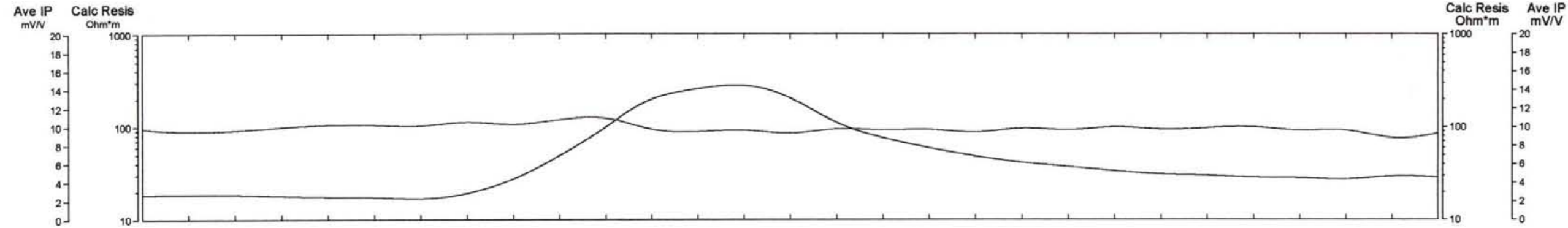
Calculated Resistivity  
Ohm\*m

MICHAEL MOORE

INDUCED POLARIZATION SURVEY  
MCLEESE LAKE AREA PROJECT

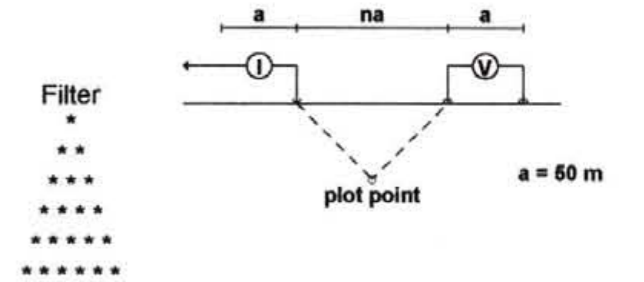
Date: SEPTEMBER 2005  
Interpretation:

PETER E. WALCOTT & ASSOCIATES LTD



L2

Pole-Dipole Array



Instruments: HUNTEX MARK IV 7.5 kw Tx, ELREC PRO Rx

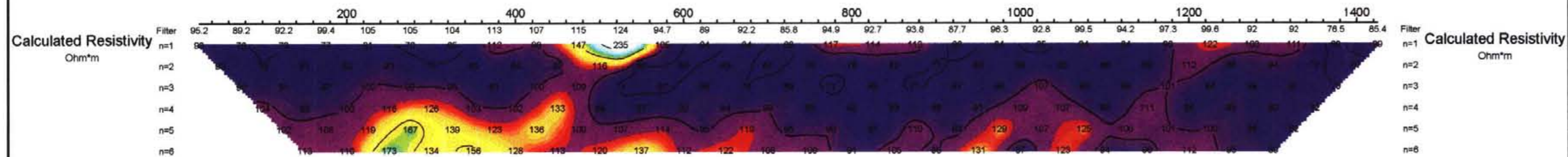
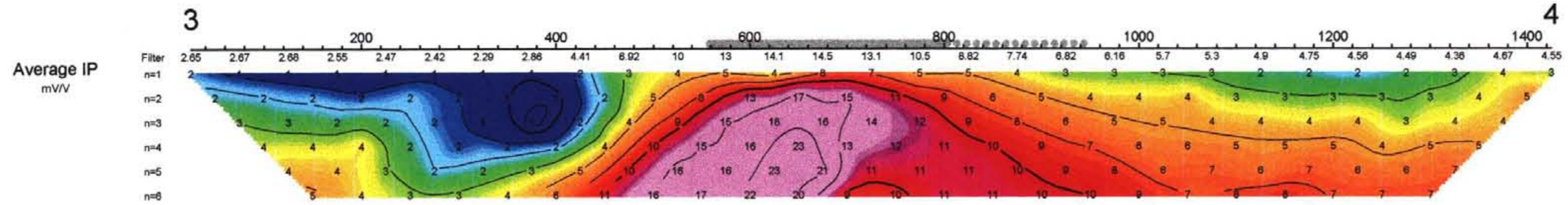
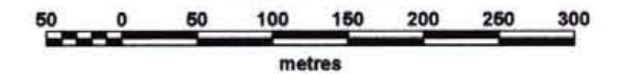
Frequency: 0.125 Hz.  
Operators: A.C., P.C., A.L.

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

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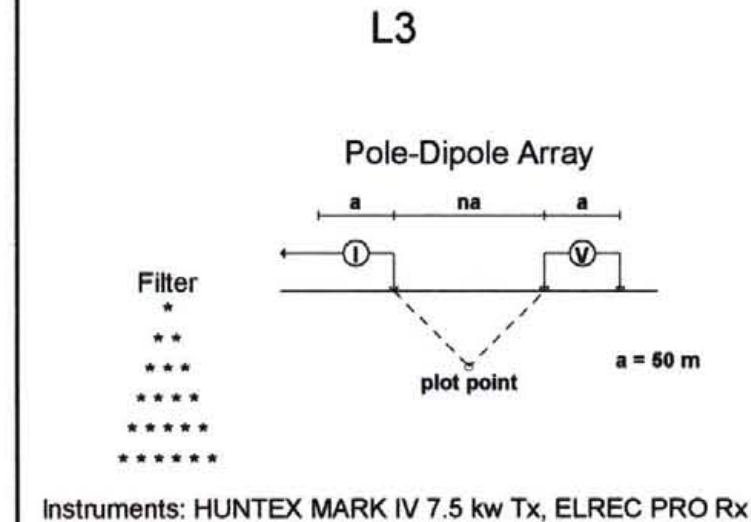
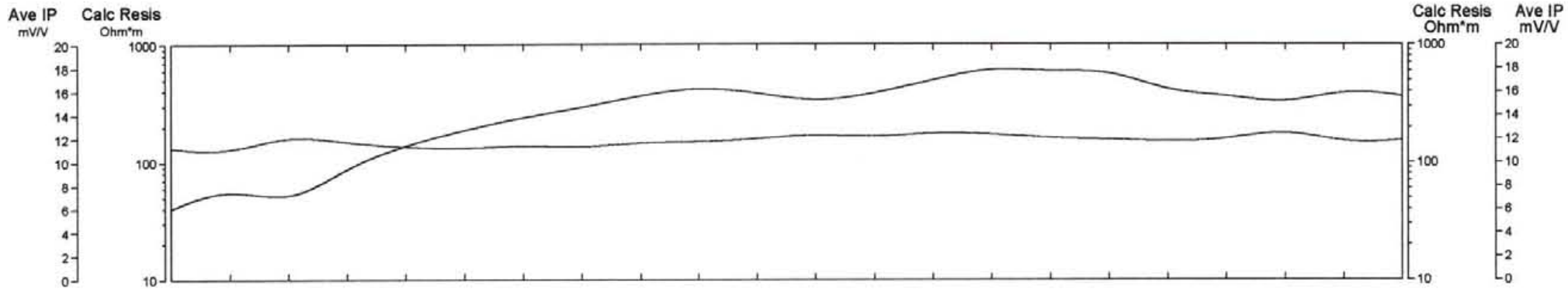


MICHAEL MOORE

INDUCED POLARIZATION SURVEY  
MCLEESE LAKE AREA PROJECT

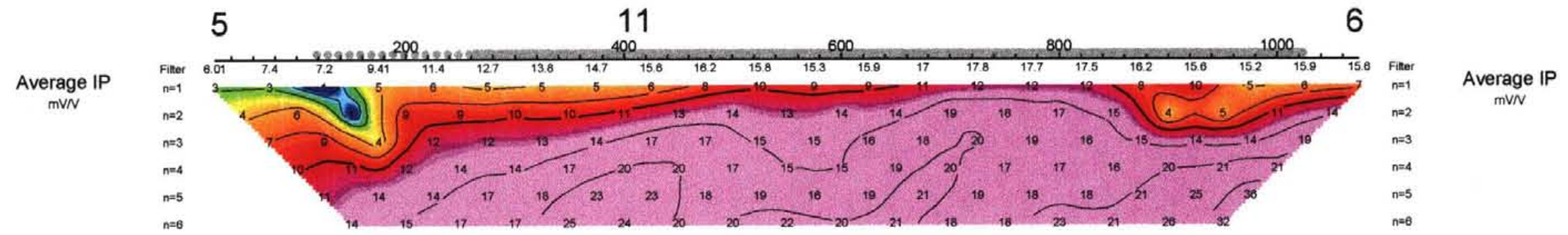
Date: SEPTEMBER 2005  
Interpretation:

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Frequency: 0.125 Hz.  
Operators: A.C., P.C., A.L.

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



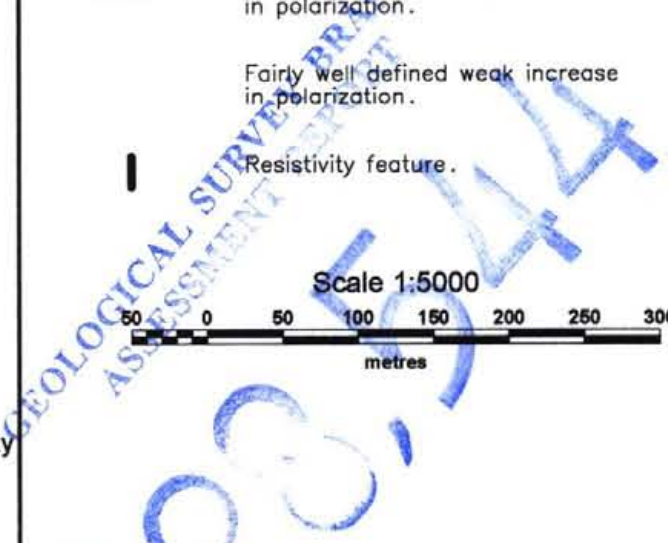
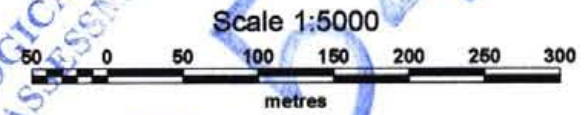
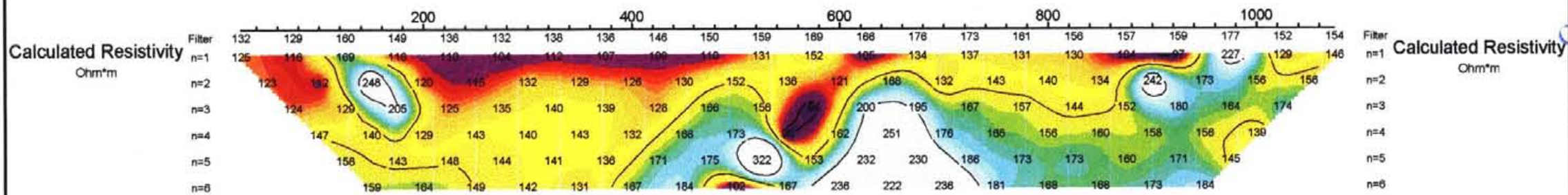
**INTERPRETATION**

— 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.



**MICHAEL MOORE**

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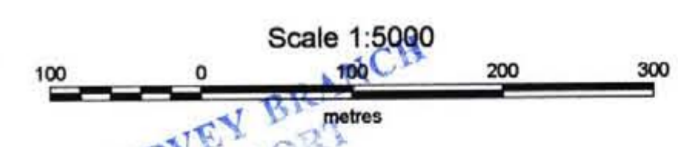
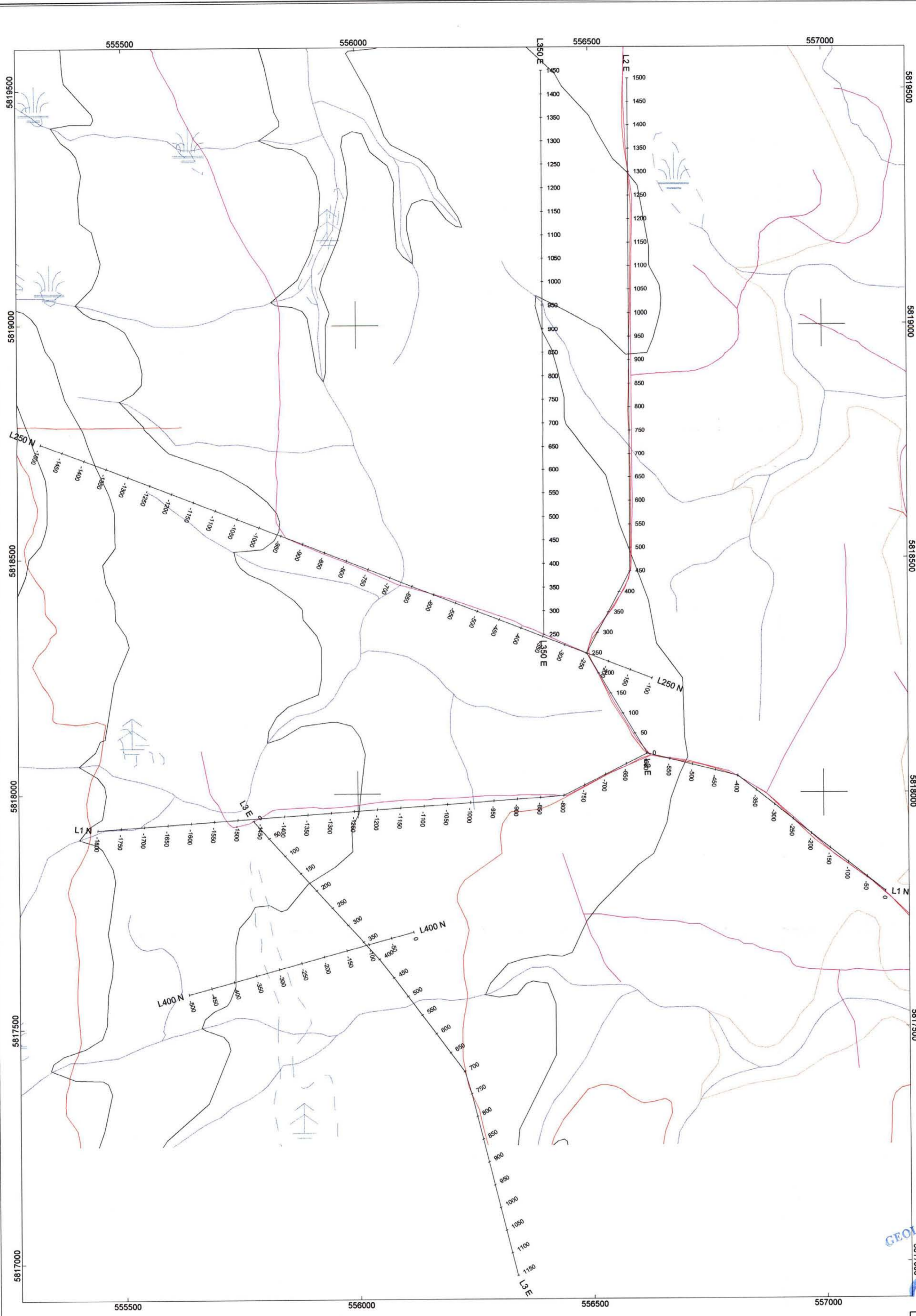
**INDUCED POLARIZATION SURVEY  
MCLEESE LAKE AREA PROJECT**

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Date: SEPTEMBER 2005  
Interpretation:

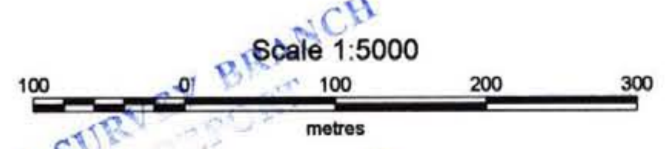
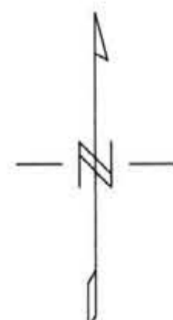
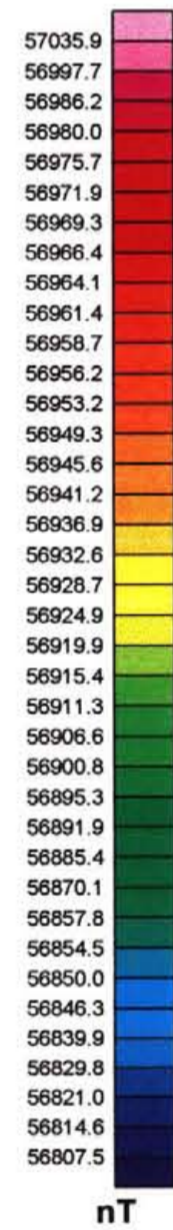
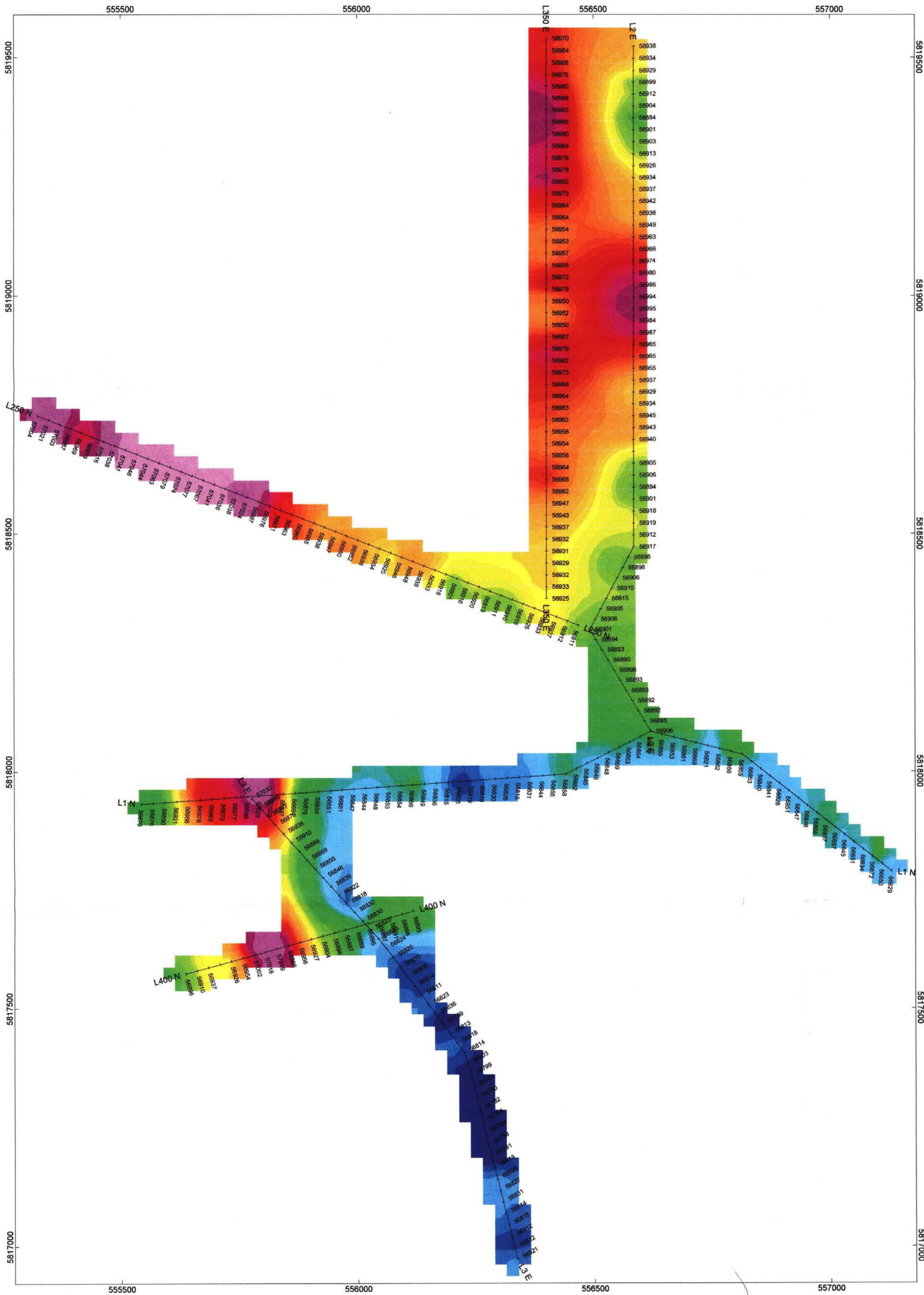
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GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT  
28,544

MICHAEL MOORE  
LINE LOCATION MAP  
MCLEESE LAKE AREA PROJECT  
SEPTEMBER 2005  
PETER E. WALCOTT & ASSOCIATES LIMITED



GEOLOGICAL SURVEY OF CANADA  
ASSESSMENT BRANCH  
28,544

MICHAEL MOORE  
MAGNETIC SURVEY  
GRIDDED TOTAL FIELD INTENSITY  
nT  
MCLEESE LAKE AREA PROJECT  
SEPTEMBER 2005  
PETER E. WALCOTT & ASSOCIATES LIMITED