INSIGHT GEOPHYSICS INC.
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GEOSCIENCE ASSESSMENT OFFICE

Geophysics Logistical Report

Tuned Gradient and Insight Section Induced Polarization and Resistivity Surveys

KIRKLAND LAKE GOLD PROPERTY

Kirkland Lake, Ontario

Prepared for: Richview Resources Inc

March, 2006

C-38

David Dawson

2.34224

Table of Contents

TABLE OF CONTENTS 1

INTRODUCTION 2

GENERAL INFORMATION 2

SURVEY GRID 3

GRID LOCATION 3
GRID SPECIFICS 4

SURVEY PARAMETERS 5

SPECIFICATIONS 5
INSTRUMENTATION 6
PARAMETERS 6
MEASURED PARAMETERS 6

SURVEY EXECUTION 7

GENERALITIES 7
SURVEY COVERAGE 7

DATA PRESENTATION 9

DATA PROCESSING 9
DIGITAL DATA 9
MAPS 10

COMMENTS 11

APPENDIX A: INSTRUMENT SPECIFICATIONS 12

ELREC PRO Ten channel IP receiver *12*
Huntec Mk IV 7500W Transmitter *13*

APPENDIX B : MAP POCKET 14

INTRODUCTION

In February and March 2006 Insight Geophysics Inc. was contracted by MPH Consulting Ltd. On behalf of Richview Resources Inc. to perform Tuned Gradient and Insight Section Time Domain Induced Polarization / Resistivity Surveys over the Kirkland Lake Gold Property near Kirkland Lake, Ontario, Canada.

General Information

- Project Name: Kirkland Lake Gold Property
- Survey Type: Time Domain Induced Polarization / Resistivity
- Arrays Types Used: Tuned Gradient, Insight Section
- Client: MPH Consulting Ltd.
  133 Richmond Street West
  Toronto, Ontario, Canada
  M5H 2L3
- Client Representatives: **Mr. Howard Coates**

SURVEY GRID

Grid Location

- Country: Canada
- Province: Ontario
- General Location: Perry Lake, Michaud Township

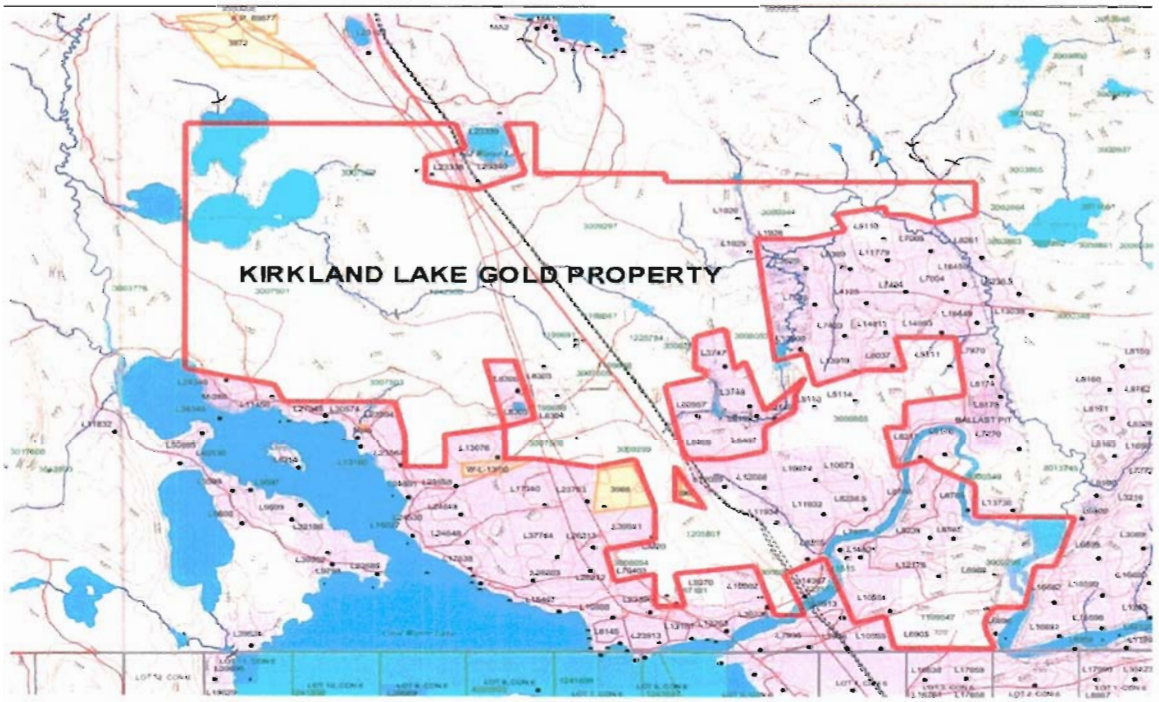
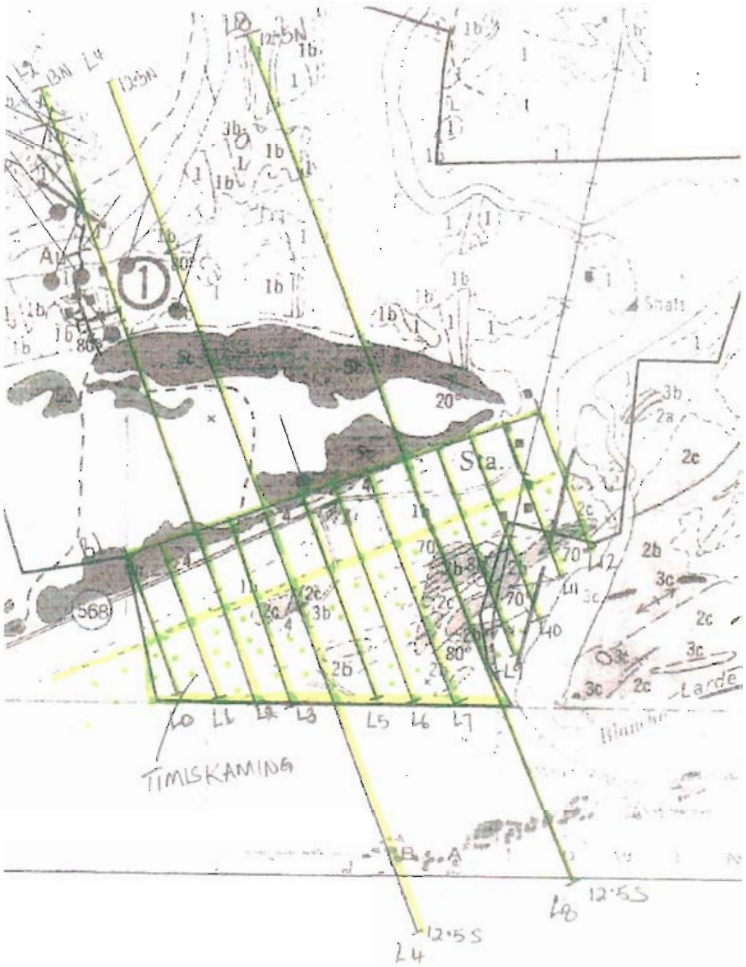


Figure 1 General property setting



Kirkland Lake Property Grid

Grid Specifics

- Established: Prior to survey
- Coordinate System: Metric
- Method: Surveyed
- Line Separation: 100m
- Station Interval: Picketed @ 25m

SURVEY PARAMETERS

Specifications

Tuned Gradient Survey

- Array: Tuned Gradient
- AB (Tx dipole spacing): 2500 m
- MN (Rx dipole spacing): 25m
- Sampling Interval: 25m

Insight Section Survey

- Array: Insight Array
- AB (Tx dipole spacing): Multiple AB dipoles
- Levels per section: ~12
- MN (Rx dipole spacing): 25m
- Sampling Interval: 25m

Instrumentation

- Receiver: Elrec Pro (refer to Appendix B ; Instrument Specifications)
- Transmitter: Huntec Mk IV 7500W

Parameters

- Transmitted Waveform: Square wave @ 0.0625 Hz
  50% duty cycle
- Receiver Sampling: Semi-Logarithmic windows (20 windows)

Window	Width (ms)	Window	Width (ms)
M Daly	160		
1	80	11	160
2	80	12	160
3	80	13	160
4	80	14	160
5	80	15	320
6	80	16	320
7	80	17	320
8	80	18	320
9	160	19	320
10	160	20	320
		TOTAL	3680ms

Semi -Log windows

Measured Parameters

- IP measured Parameter: Chargeability in mV/V
- Resistivity measured Parameters: Primary Voltage in mV and Transmitted Current in mA.

SURVEY EXECUTION

Generalities

- Survey Dates: Feb 24 – March 7, 2006
- Mob Days: 2 days
- Survey Days 11 days
- Weather Days 0 day
- Standby Days: 0 days

Personnel

Marcio Maia, Operator, IGI

Martin Kratochvil, Operator, IGI

Joe Wabi, Field Assistant, IGI

Neil Wabi, Field Assistant, IGI

Mason Stanger, Field Assistant, IGI

Gary Rose, Field Assistant, IGI

Survey Coverage

Tuned Gradient Survey

A tuned gradient survey was conducted on lines 0E through 1100E. Line spacing was 100 meters. Two transmitter dipoles were used to cover the grid area. Transmitted current was approximately 2 to 6 Amps. Approximately 10% of all survey readings were repeated for QA/QC assurances.

Transmitting Dipole Locations

Tx#1	Line 400E	1125S – 1325N
Tx#2	Line 800E	1250S – 1250N

Strong cultural effects were present in the central area of the grid. A large area of gravel parking lot could not be surveyed due to the frozen ground. Extensive culture notes have been overlain on the gradient maps.

Insight Sections

Two Insight Sections were surveyed on line 800E and on Line 400E. The Insight Sections were designed to provide Apparent Resistivity and Total Chargeability information to a maximum depth of approximately 200-300 meters.

As with the tuned gradient survey data, approximately 10% of all survey readings were repeated for QA/QC assurances.

DATA PRESENTATION

Data Processing

Processing of the IP data was handled with two software packages:

- Prosys software from Iris, was used to dump the instrument and edit out spurious readings. It produces a binary and an ASCI text export.

***.bin**
Raw binary dump files from Elrec Pro, one file per day. Can be viewed and exported using Prosys software available on Iris website at the following link:
http://www.iris-instruments.com/Support/Download/Download_geophy.html

***.txt**
ASCI CSV export of binary dump files.

- Oasis Montaj from Geosoft, was used to compile and QC the data in a Database format. It produces a database and a *.xyz format export as a final digital product. All map products were generated with the mapping portion of this package.

***.gdb**
Oasis database file.

***.xyz**
Total Chargeability and Apparent Resistivity, grid co-ordinates, Geosoft xyz format file.

Digital Data

- Raw Data: Iris binary dump file
- Processed Data: CSV file of all parameters in binary dump file.
  Geosoft xyz format file
  Geosoft *.gdb database file.

Maps

Refer to attached map pocket for printed maps.

Insight Sections

Map Name	Scale
L800E Richview Property Apparent Resistivity Insight Section	1:1000
L800E Richview Property Total Chargeability Insight Section	1:1000
L400E Richview Property Apparent Resistivity Insight Section	1:1000
L400E Richview Property Total Chargeability Insight Section	1:1000

Plan Maps

Map Name	Scale (metric)
Richview Tuned Gradient - Apparent Resistivity	1:5000
Richview Tuned Gradient – Total Chargeability	1:5000

COMMENTS

Insight would like to thank MPH Consulting Ltd. for their appreciated assistance and input during these surveys.

Respectfully Submitted

David Dawson,

Geophysicist

Insight Geophysics Inc.

APPENDIX A: INSTRUMENT SPECIFICATIONS

ELREC PRO Ten channel IP receiver



Terraplus is pleased to announce the ELREC PRO, its new ten channel IP receiver, featuring 20 chargeability windows and a graphic LCD display.

The following improvements have been introduced in this new receiver with respect to the previous ELREC 10 unit :

HARDWARE FEATURES:

The size has been reduced by 4 cm in height: 31x 21x 21 cm

The power consumption has been reduced by a ratio of three, which means that with less battery it is possible to have a longer autonomy.

As a result, the new system is 2.5 kg lighter than the ELREC 10, with a weight of 5.5 kg only.

The data (21 000 readings max.) are stored in flash memories not requiring any lithium battery for safeguard.

The new system is compatible with the existing SWITCH Plus boxes for automatic switching of electrodes according to preset sequences. In such a case, the receiver is used as a single channel unit ; with SWITCH Pro boxes (to be developed next), the full ten-channel capability of the ELREC PRO will be usable for a higher acquisition speed.

SOFTWARE FEATURES:

Each new reading is stored as a specific unit file, making easier the grouping of readings corresponding to a given profile, specially for the last (edge) points of a line obtained with a smaller number of dipoles than the main part of the profile.

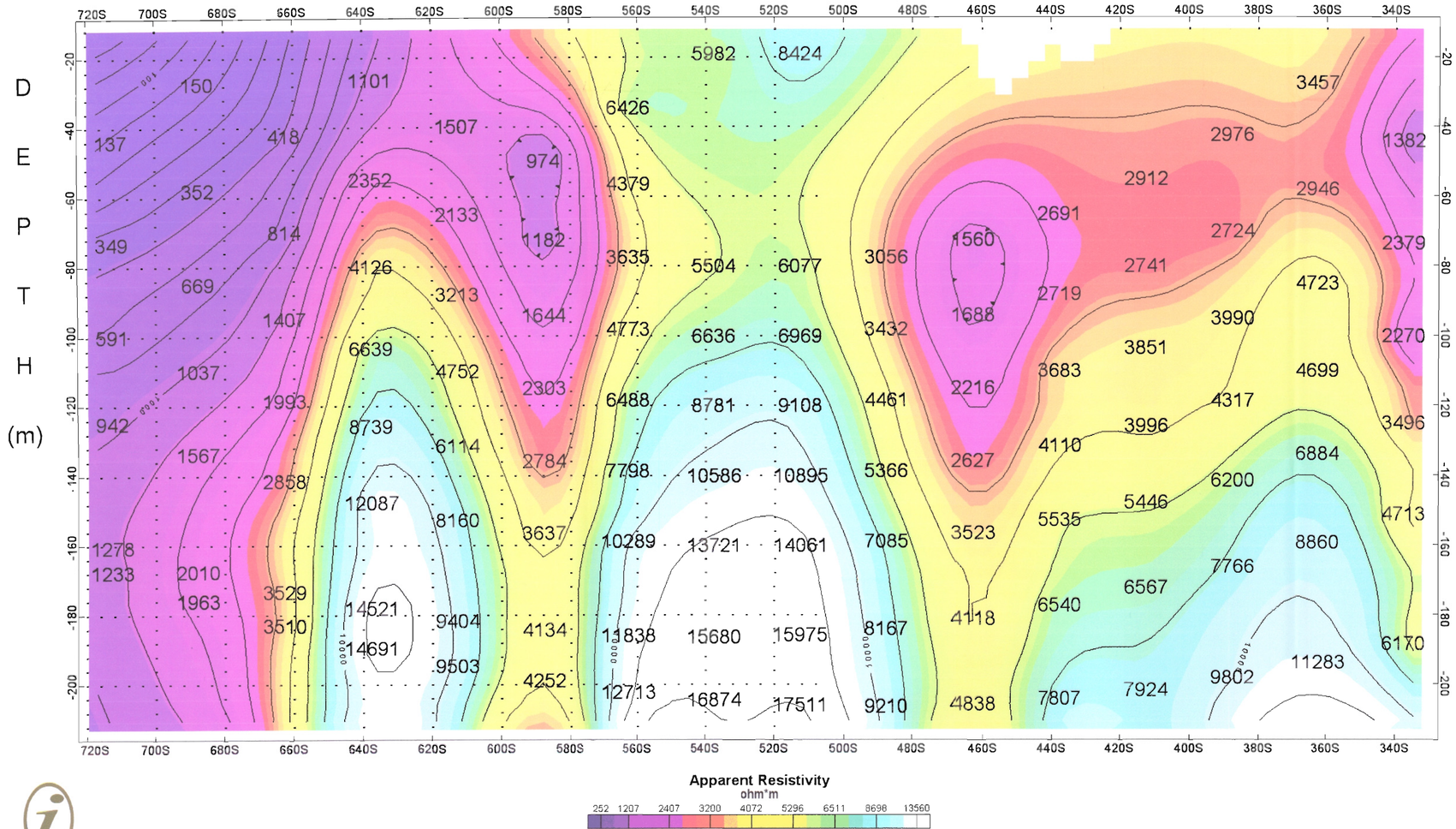
The data format is compatible with the PROSYS software, which means that the operator can easily visualize the numerical values of the data, automatically sort them according to the standard deviation of the chargeability measurement, merge two files stored under different names, introduce the elevation of each electrode, etc.

The ELECTRE II software can be used to define and upload preset sequences of measurements according to any type of electrode array.

Huntec Mk IV Transmitter

Power:	96-144V line to neutral, 3 phase, 400 Hz (from Huntec generator set), 7500W
Output: Voltage:	100-3200 V dc
Current:	16A maximum on low voltage ranges
Current regulator:	< 0.1% current change for 10% change in load resistance
Output frequency:	1/16 Hz to 1 Hz (time domain and complex resistivity); 1/16 Hz to 4 Hz (frequency do-main)
Frequency accuracy:	50 ppm, -300C to 600C
Output duty cycle:	(Defined as tON/(tON + tOFF)) ½ to 15/16 in increments of 1/16 (time domain); 15/16 (complex resistivity); ¾ (frequency domain)
Output current meter:	Two ranges; 0-10A, 0-20A
Input voltage meter:	0-150V
Temperature range:	-34.0C to 40.0C
Size:	53 X 43 X 43 cm
Weight:	50 kg

APPENDIX B : MAP POCKET



Insight Section

Apparent Resistivity

L 8+00E

Scale 1:1000

20 0 20 40 60

metres

MPH CONSULTING LIMITED

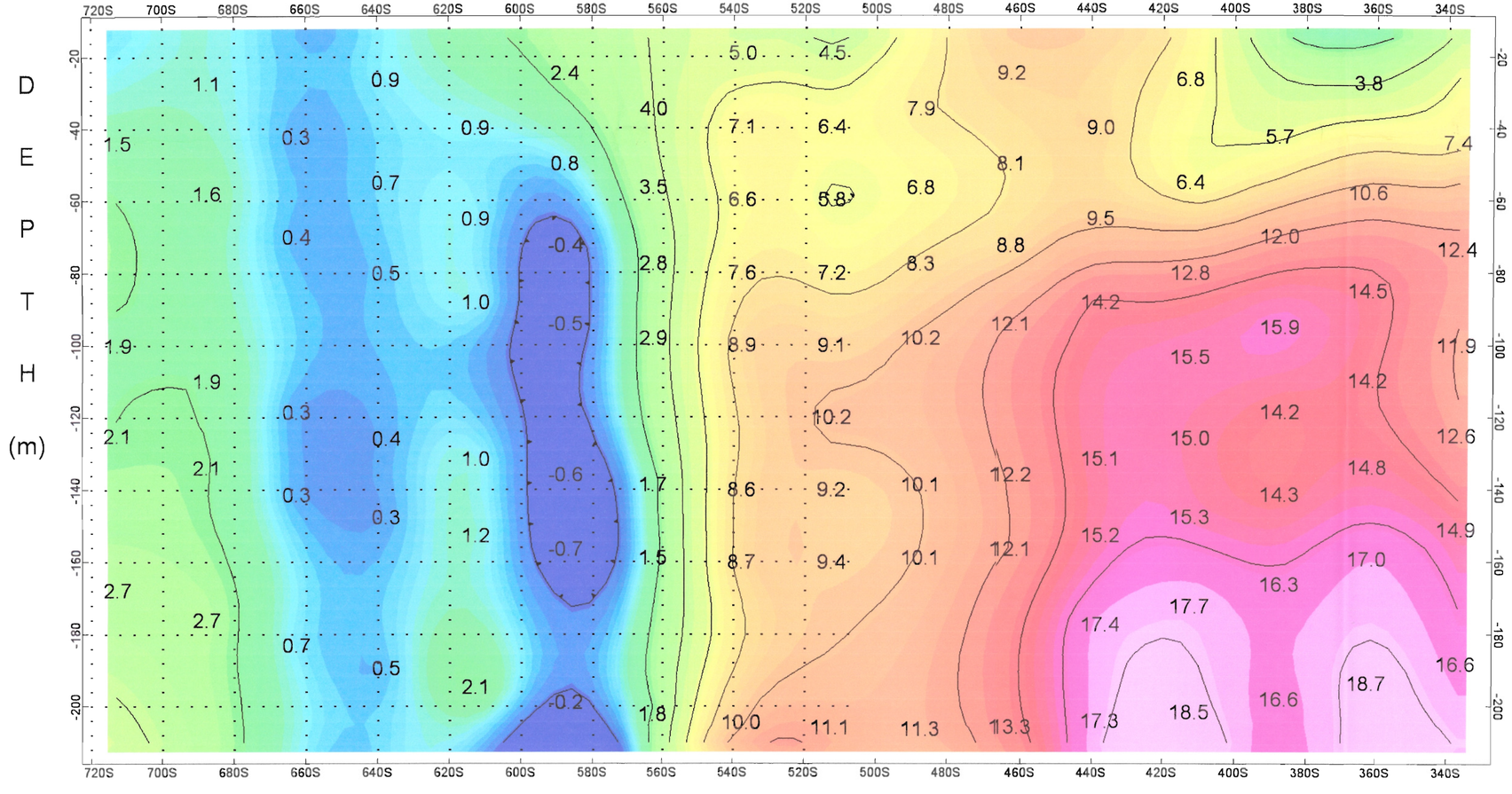
Richview Resources Inc.

Kirkland Lake Gold Property

Insight Section
Detailed DCIP Surveys
Kirkland Lake, ON, Canada

Time Domain 4s pulse
Elrec Pro/Huntec 7.5kVA
Processed by: DJw
QA/QC: MK
March 2006

Insight Geophysics Inc.



Insight Section

Chargeability

L 8+00E

Scale 1:1000

20 0 20 40 60

metres

MPH CONSULTING LIMITED

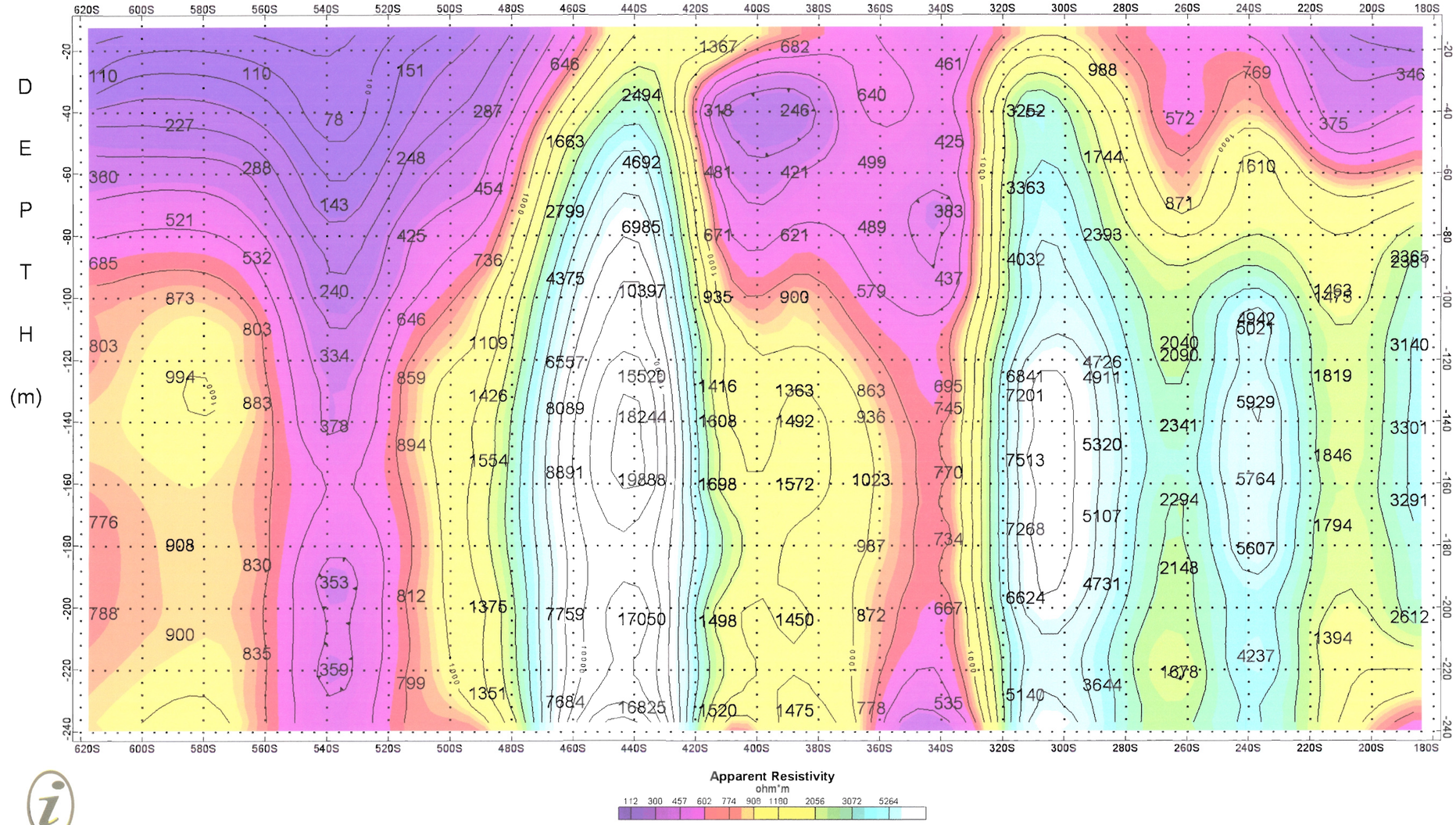
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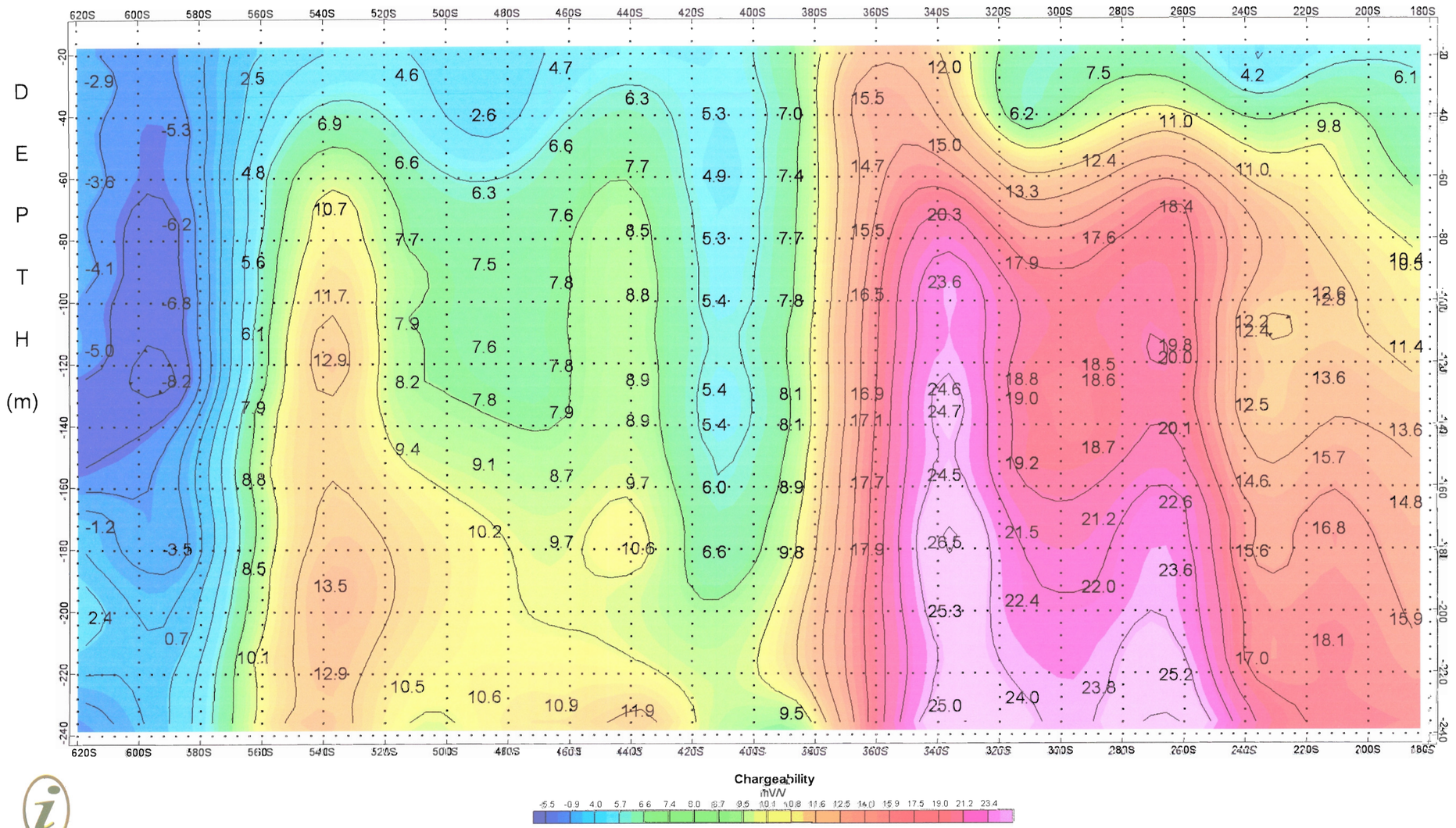
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metres

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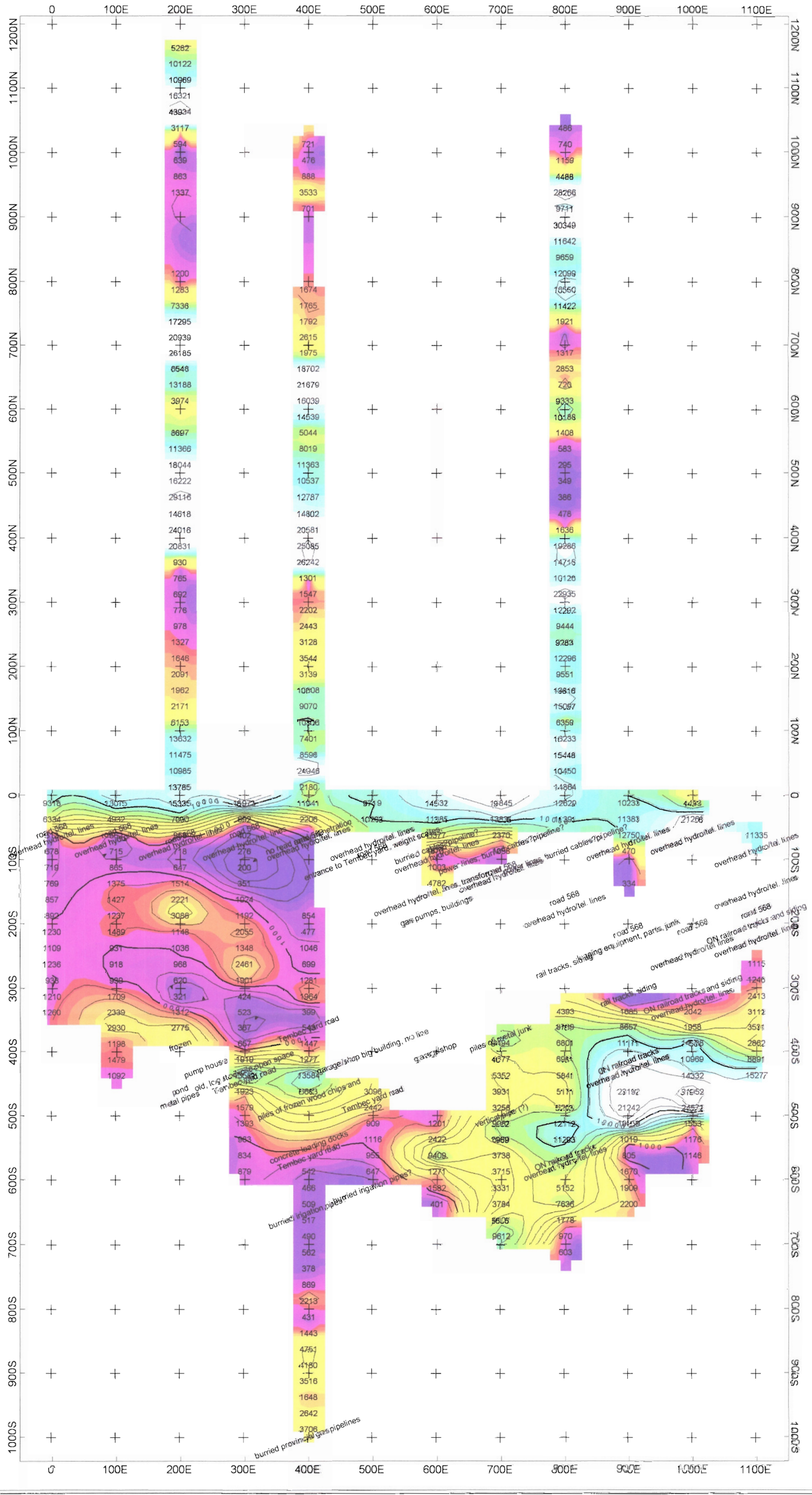
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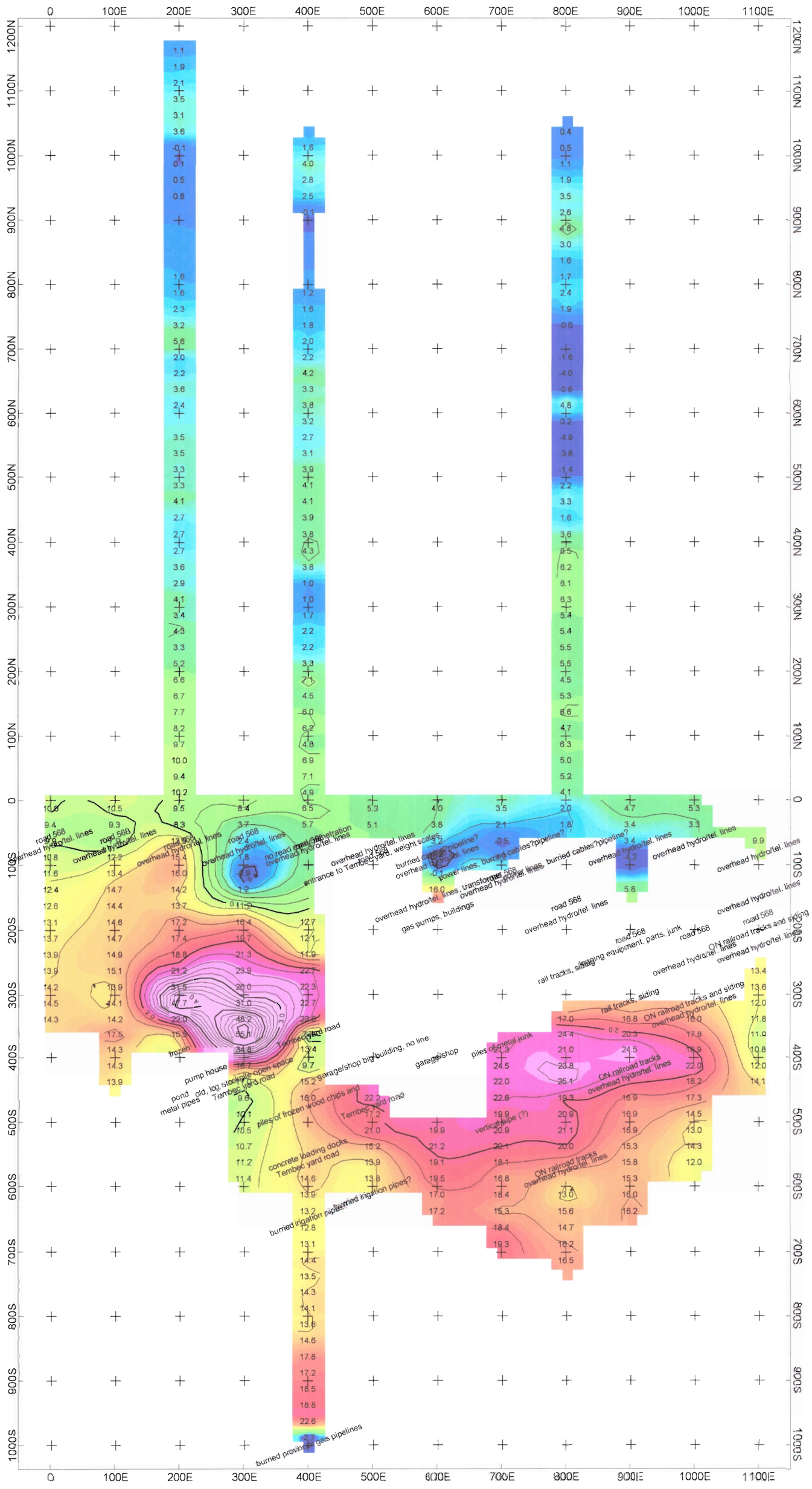


MPH Consulting Ltd.

Richview Property
Ontario, Canada
Tuned Gradient Survey - Apparent Resistivity

Time Domain IP - 4 sec Square Wave
Elrec Pro / Huntec MKIV (7.5 kW)
Data QA/QC: MK Final Processing:CP
C-38 March 2006

Insight Geophysics Inc



Scale 1:5000

50 0 50 100 150 200 250 300 350

metres

Total Chargeability

mV/V

0.2 1.9 3.1 4.0 5.7 9.6 12.5 14.0 15.0 16.1 17.8 20.4 23.6

MPH Consulting Ltd.

Richview Property
Ontario, Canada
Tuned Gradient Survey - Total Chargeability

Time Domain IP - 4 sec Square Wave
Elrec Pro / Huntec MKIV (7.5 kW)
Data QA/QC: MK Final Processing:CP
C-38 March 2006

Insight Geophysics Inc