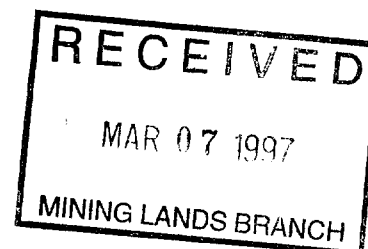




VAL D'OR SAGAX INC.
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2.17186

A REPORT ON GEOPHYSICAL SURVEYS
performed on the
HEWITT PROSPECT
Beatty Township, province of Ontario
and submitted to
ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
96-N142 February 1997



42A09SW0166 2.17186 BEATTY

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SUMMARY

On December 1996 and January 1997, magnetic, horizontal-loop EM and induced polarization surveys were carried out on behalf of Anglumaque Explorations Inc. and Totem Sciences Inc. on the Hewitt Prospect, Matheson area, province of Ontario.

The induced polarization survey has outlined 10 anomalous zones mostly corresponding with high resistivity patterns, while no bedrock conductor was delineated by the HEM survey.

Recommendations for further work consist of a detail geological survey followed by diamond drilling, if warranted, on all zones of interest.



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APPENDICES

ATTACHED TO THIS REPORT

List of maps at a scale of 1 : 5000

MAGNETIC SURVEY:

96-N142-1.1	Total field contours
96-N142-1.2	Total field profiles

HEM ELECTROMAGNETIC SURVEY:

96-N142-3.2	440 Hz Profiles
96-N142-3.4	1760 Hz Profiles
96-N142-3.7	14 080 Hz Profiles

INDUCED POLARIZATION SURVEY:

96-N142-4.2	Apparent resistivity contours (filter)
96-N142-4.3	Phase contours (filter)

GEOPHYSICAL INTERPRETATION:

96-N142-7.0	Geophysical interpretation
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1. INTRODUCTION

In December 1996 and January 1997, magnetic, electromagnetic (HLEM) and induced polarization surveys were carried out on a property owned by ANGLAUMAQUE EXPLORATIONS INC. and TOTEM SCIENCES INC., namely the HEWITT PROSPECT, located in Beatty Township, province of Ontario.

The surveys were designed to outline lithological and structural features and mineralization favorable for gold deposition.

2. PROPERTY, LOCATION AND ACCESS

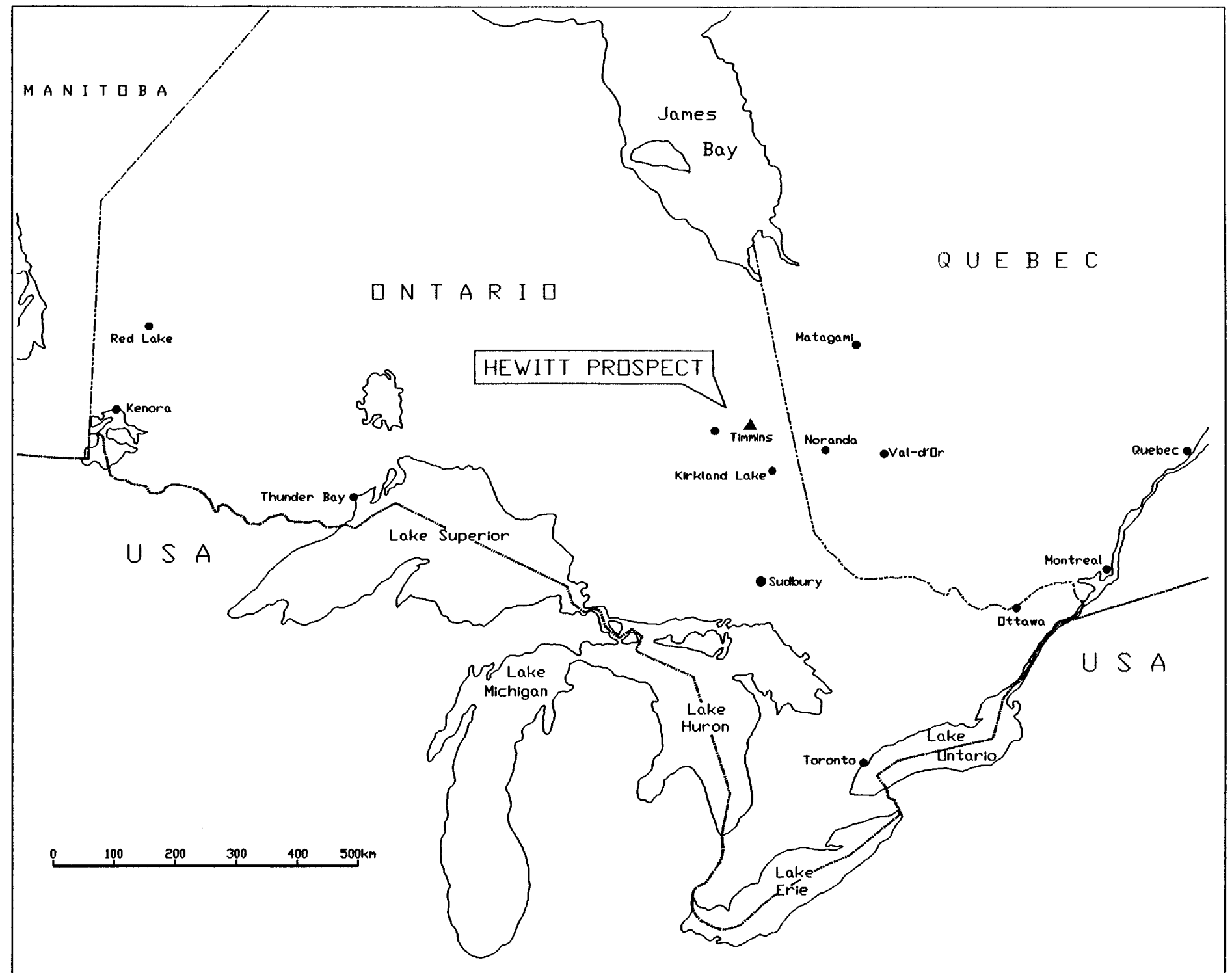
The property is located about 70 km east of Timmins and 10 km NE of Matheson, in Beatty Township, province of Ontario (figure 1). The access is from Matheson to the North via Road 101 and by colonization roads which traverse the property.

The mineral exploration permits have been registered with THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES OF ONTARIO. The area covered by the geophysical surveys is shown in Figure 2 of the present report.

3. GEOPHYSICAL SURVEYS

A total magnetic field survey, a horizontal-loop electromagnetic survey and an induced polarization survey were carried out on the property from December 10, 1996 to January 9, 1997. In total, 22,5 line-km of magnetic survey, 19,6 line-km of HEM survey and 18,3 line-km of IP survey were executed during this period.

Figure 1: General location



4. SURVEY SPECIFICATIONS AND INSTRUMENTATION

4.1. Survey grid

The geophysical surveys were carried out along a network of picket lines oriented NE-SW, spaced every 100 metres and chained with stations marked every 25 metres. The line deviations were also measured by means of tie-lines.

4.2. Magnetic survey

The magnetic readings were taken with a GSM-19 portable magnetometer manufactured by GEM Systems and operating with a sensor using the Overhauser effect. The total magnetic field was measured every 2 seconds in a continuous reading mode, with a resolution of 0,01 nanoTesla (nT). The readings were systematically controlled for location every 12,5 metres.

The magnetometer was operated with the sensor mounted on top of a backpack frame. The noise envelope is estimated at less than 5 nT after a short wavelength filter was applied to remove noisy spikes.

A base station magnetometer, located on the property and measuring the total magnetic field every 10 seconds, was used as a reference for correction of the diurnal variation.

4.3. Horizontal-loop EM survey

The electromagnetic survey was carried out with an Apex Parametrics MAXMIN I system, which was used in the horizontal coplanar loop mode with a 100-metre separation between the transmitting and receiving coils. Readings were taken every 25 metres along the lines. The system was operated at three different frequencies (440, 1760 and 14 080 Hz). Both the in-phase and out-of-phase components of the secondary field were measured and recorded as percentages of the primary vertical field with a precision of 1%. Wherever necessary, topographic corrections for slope were calculated for the in-phase component.

4.4. Induced polarization survey

The induced polarization and resistivity survey was executed by Val d'Or Sagax Inc. with an IRIS IP-6 time-domain receiver and with an IPT-1 transmitter using a 1,0 kW MG-1 motor generator manufactured by Phoenix. The survey was conducted with a dipole-dipole array using a 50-metre electrode separation (a). Primary voltage and chargeability values were measured every 50 metres for dipole separations (n) of 1 to 5 with a precision of 0,1 millivolt (mV) and 0,1 millivolt/volt, respectively.

5. RESULTS AND INTERPRETATION

5.1. Magnetic survey

The area covered by the present survey shows a moderate to strong magnetic relief where total field values vary between 57 400 and 59 500 nT, in general. This relief is, in fact, constituted of two principal magnetic domains whose junction likely represents a major geological contact traversing the property following a nearly E-W orientation. The first domain (DM-1) which occupies the northern half of the survey has a background level situated near 57 600 nT and is characterized by the presence of a few zones of magnetic high of about 200 to 500 nT showing an NW-SE orientation. The second domain (DM-2) presents a higher background level of about 58 400 nT with peaks of about 500 to 1500 nT which appear to be aligned following a general E-W orientation.

5.2. Horizontal-loop EM survey

No definite bedrock conductor was detected by the survey, as demonstrated by the flat profiles of the lowest frequency used (440 Hz). The strong fluctuations measured on the highest frequency (14 080 Hz) are likely due to a large zone of thick conductive overburden in the central part of the survey, to the opposite of the NE part where the flat profiles indicate sub-outcropping bedrock.

Only a few fluctuations, mostly of the quadrature component, were outlined on the medium frequency (1 760 Hz). These responses indicate a very low order of conductivity (< 1 siemen) which likely reflect conductive overburden.

5.3. Induced polarization survey

The apparent resistivities measured on the property are quite variable with values ranging rapidly from less than 100 Ω -m where the overburden is thick and conductive to more than 10000 Ω -m where the rock outcrops. The apparent resistivity contour map thus confirms the interpretation of the HEM survey with a zone of high resistivity in the NE and a zone of low resistivity in the central part of the grid.

On the other hand, the chargeability readings show a low background of less than 1 mV/V in areas of low conductivity which increases to a level of 5 to 8 mV/V where the rock outcrops.

The survey detected several polarization effects of 5 to 20 mV/V which are usually associated with zones of high resistivity. These responses were tentatively correlated to constitute 10 distinct anomalous zones. The following table presents their principal physical characteristics :

ANOMALY No.	CHARGEABILITY EFFECT (mV/V)	RESISTIVITY ASSOCIATION	MAGNETIC ASSOCIATION (nT)	POSSIBLE CAUSE
IP-1	10-15	strong - high	none	disseminated mineralization
IP-2	10-12	strong -high	locally 350	disseminated mineralization
IP-3	6-25	moderate - high (locally low)	none	disseminated to stringer min.
IP-4	10-13	strong-high	locally 400	disseminated mineralization
IP-5	9-11	strong-high	none	disseminated mineralization
IP-6	11-14	strong-high	none	disseminated mineralization
IP-7	10-18	moderate - high	none	disseminated mineralization
IP-8	4-10	low	close 400 to 1000	disseminated to stringer min.
IP-9	3-12	moderate - high	close 1000 to 1500	disseminated mineralization
IP-10	7-9	moderate - high	none	disseminated mineralization

As seen on the interpretation map, most anomalous responses are located in the NE part of the property and are associated with the large area of high resistivity. Thus anomalous zones IP-1, IP-2, IP-4, IP-5, IP-6 and IP-7 are thought to be caused by a bedrock uplift but could also partly be due to the presence of disseminated mineralization. Anomalous zones IP-9 and IP-10 which are associated with a local zone of resistivity high in the SW part of the survey also present the same characteristic. Finally, anomalous zones IP-3 (L100E/55S) and IP-8 (L800E/225N) present the best responses with moderate to locally strong chargeability effects associated with a rather low but poorly define resistivity feature.

6. CONCLUSION AND RECOMMENDATIONS

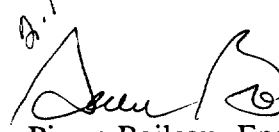

The geophysical surveys executed on the HEWITT PROSPECT detected, near the contact between two distinct magnetic domains, ten induced polarization anomalous zones which are associated, except for two of them, with high resistivity features. On the other hand, no definite bedrock conductor was outlined by the HEM survey.

We recommend the execution of a detail geological survey in areas of high resistivity in order to determine the nature of most IP anomalous zones.

Recommendations for further work should also include diamond drilling, if warranted, on all zones of interest selected in the light of all geological, geochemical and geophysical information available on the property.

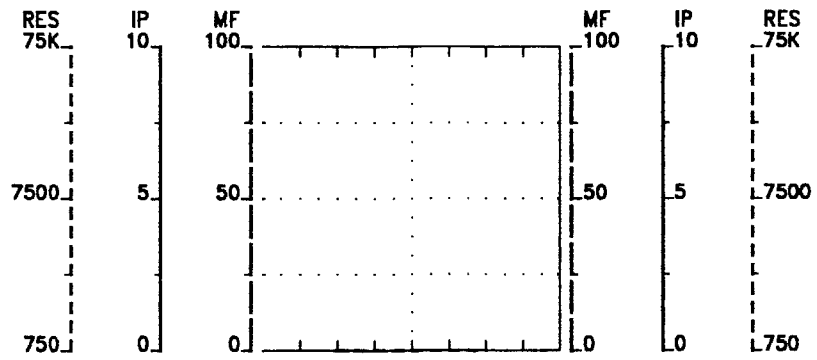
Respectfully submitted,

VAL D'OR SAGAX INC.

Anal. # 8.12.462

Pierre Boileau, Eng.
Geophysicist


PB/sl

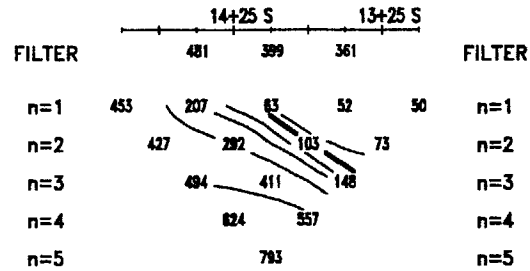
PSEUDOSECTIONS



TOPOGRAPHY

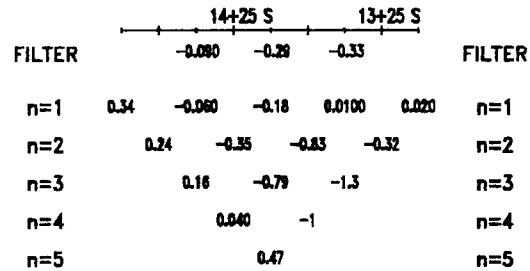
TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)



APPARENT RESISTIVITY (ohm-m)

APPARENT CHARGEABILITY (mV/V)

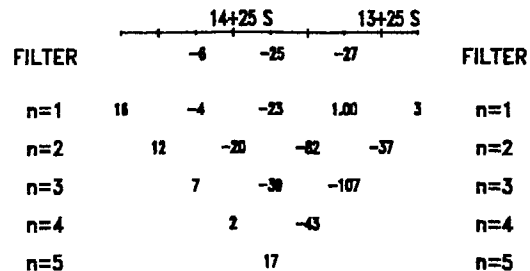


APPARENT CHARGEABILITY (mV/V)

INTERPRETATION

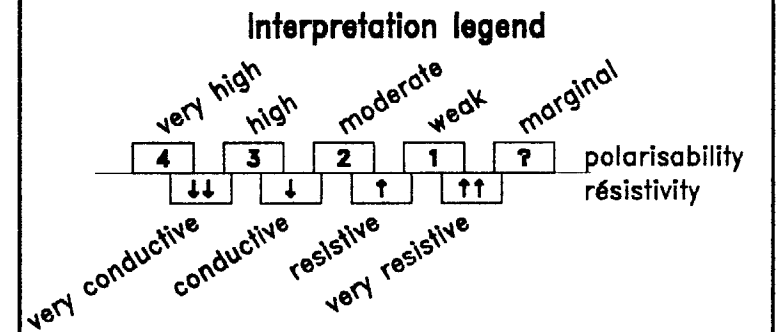
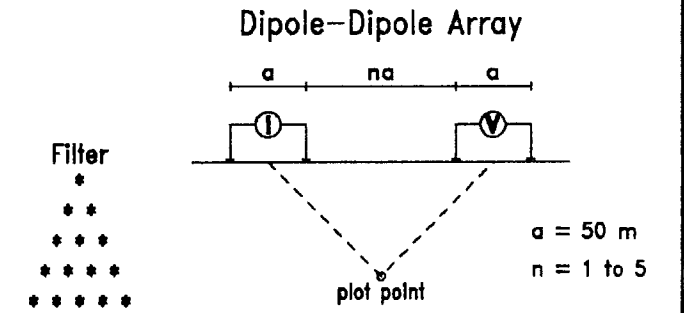
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)-0.5)



METAL FACTOR (1000*Ma/(Ra)-0.5)

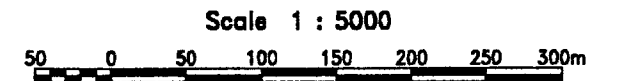
INDUCED POLARIZATION SURVEY



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 600W

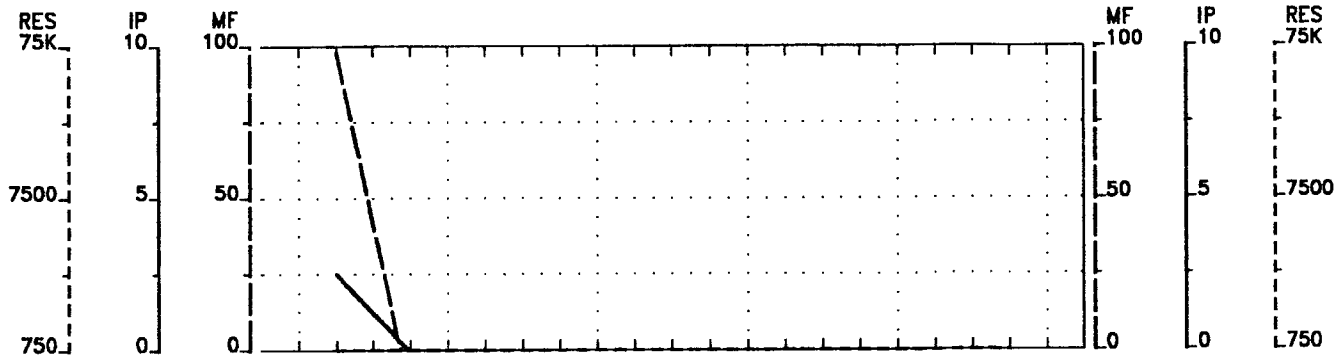


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
Matheson Area, Beatty Twp.

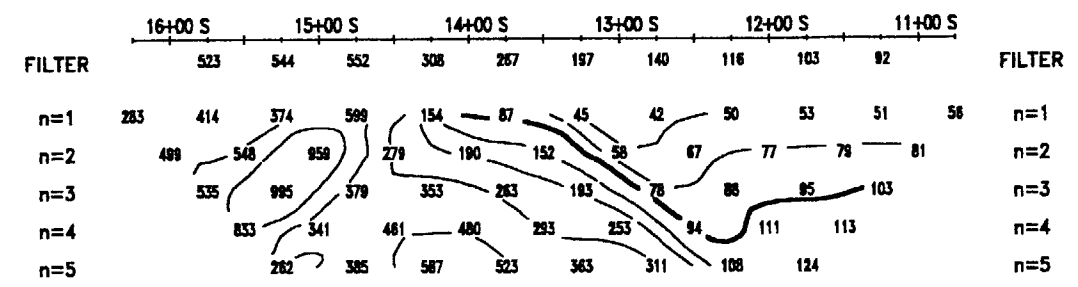
Interpreted by: Pierre Bolleau, Eng.
Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142

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TOPOGRAPHY

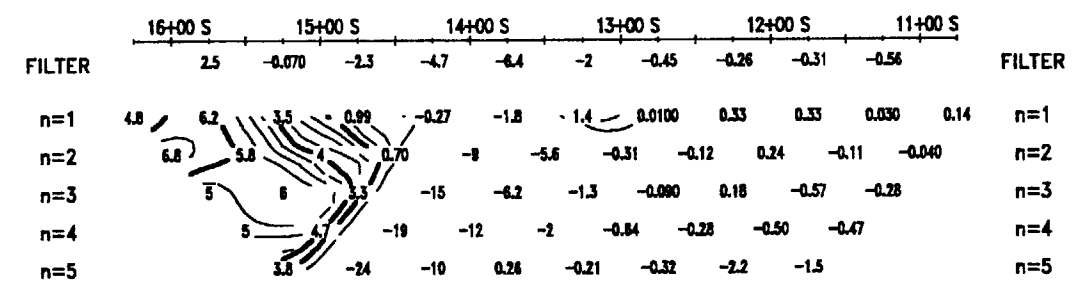
APPARENT RESISTIVITY (ohm-m)



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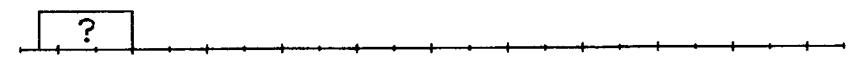
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APPARENT CHARGEABILITY (mV/V)



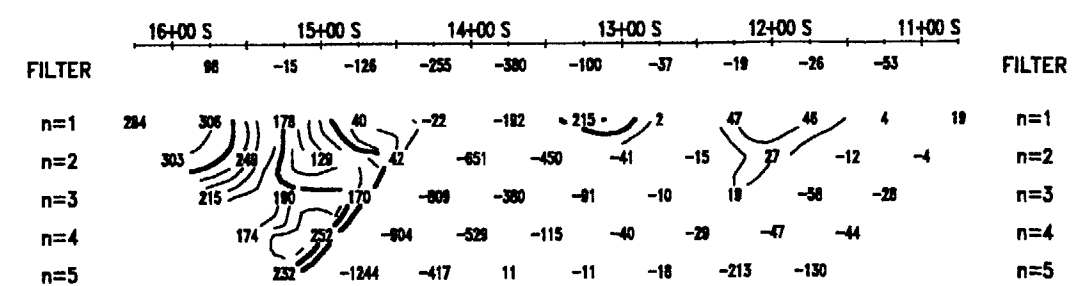
APPARENT CHARGEABILITY (mV/V)

INTERPRETATION



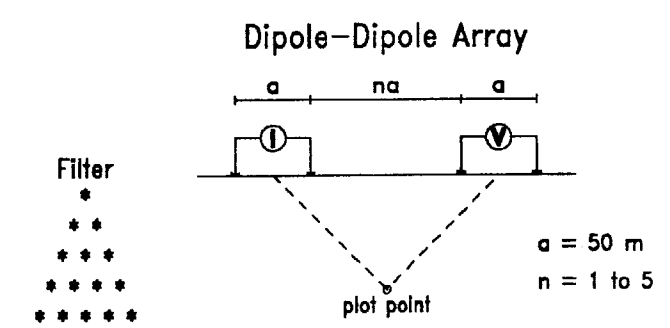
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)

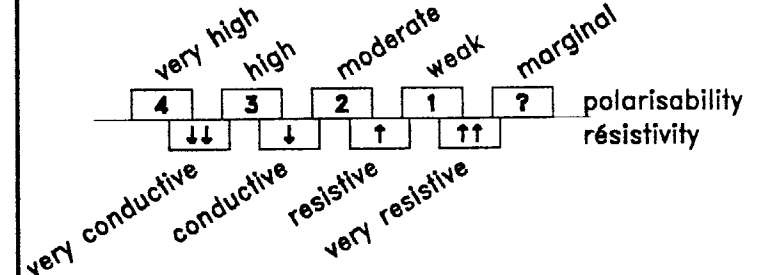


METAL FACTOR (1000*Ma/(Ra)~0.5)

INDUCED POLARIZATION SURVEY



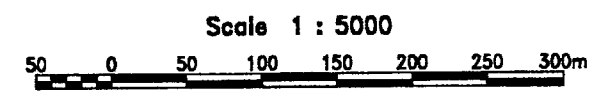
Interpretation legend



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 Chargeability: 0.5
 Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 500W

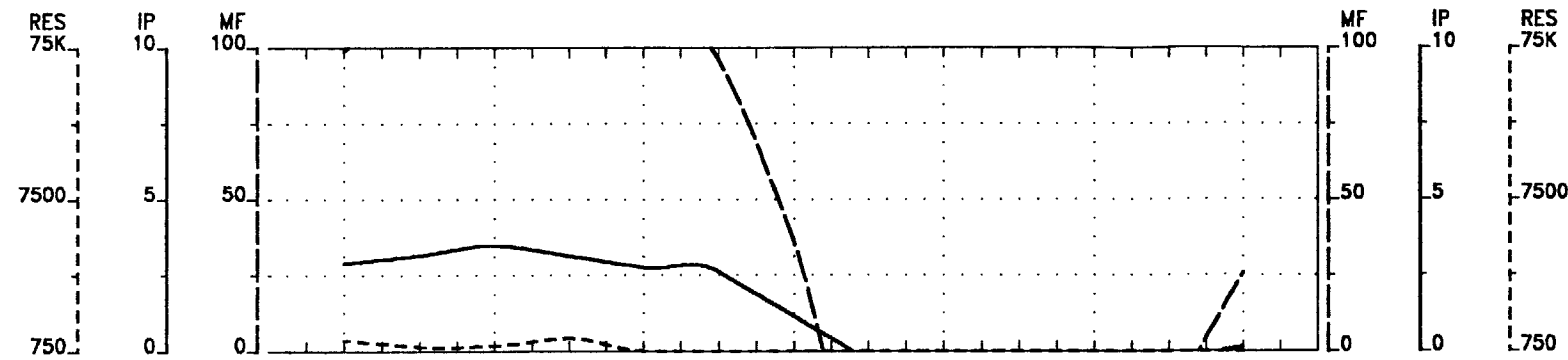


ANGLAUMAQUE EXPLORATIONS INC.
 TOTEM SCIENCES INC.

Hewitt Prospect
 Matheson Area, Beatty Twp.

Interpreted by: Pierre Bolleau, Eng.
 Date of survey: December 1996
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 Reference: 96-N142

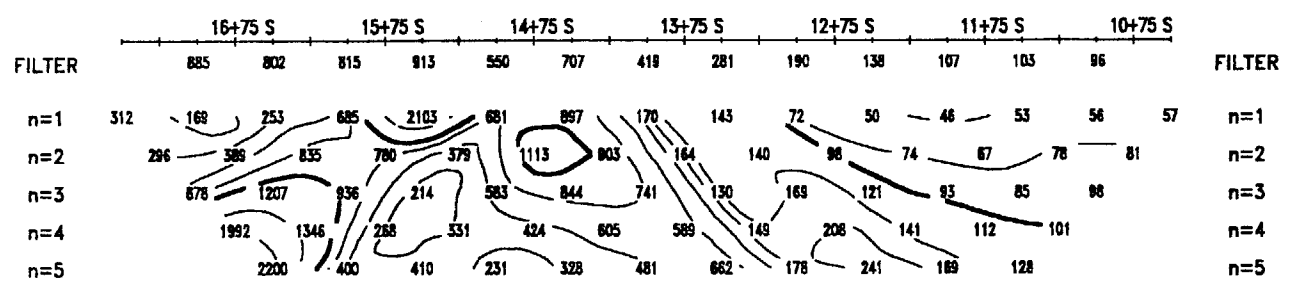




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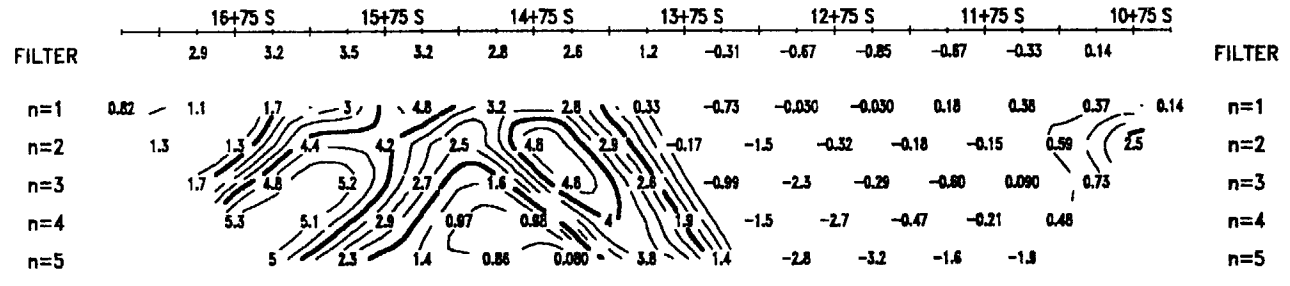
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APPARENT RESISTIVITY (ohm-m)



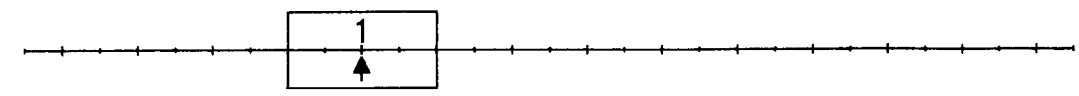
APPARENT RESISTIVITY (ohm-m)

APPARENT CHARGEABILITY (mV/V)



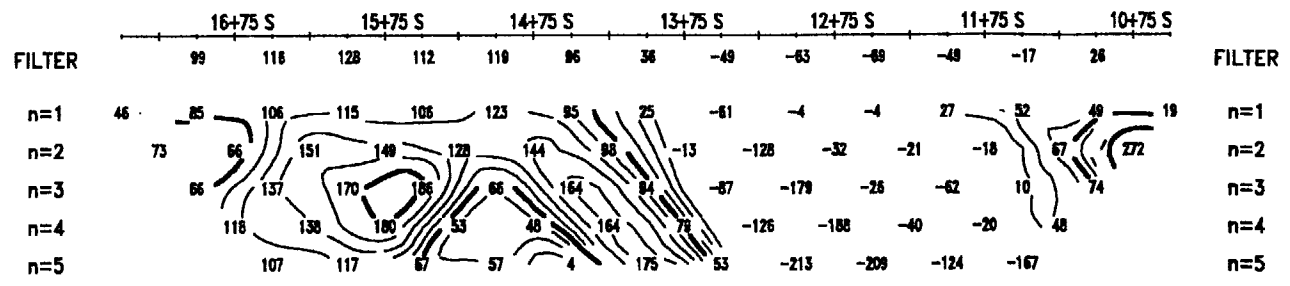
APPARENT CHARGEABILITY (mV/V)

INTERPRETATION



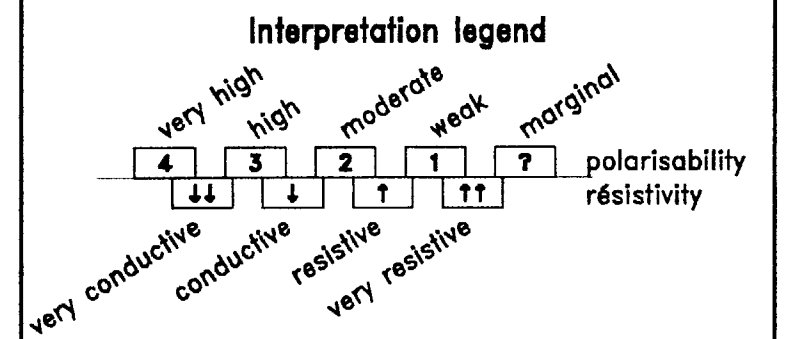
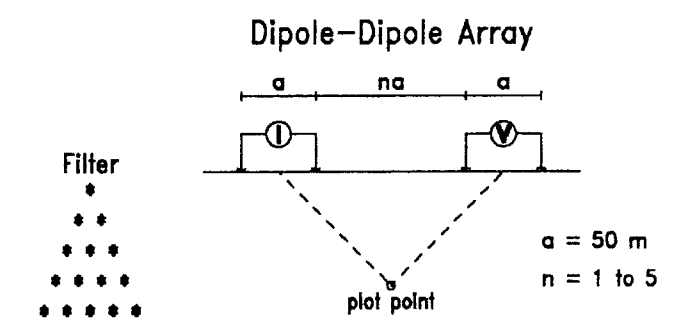
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)



METAL FACTOR (1000*Ma/(Ra)~0.5)

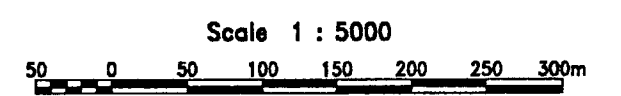
INDUCED POLARIZATION SURVEY



Contour Interval:
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 Chargeability: 0.5
 Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 400W

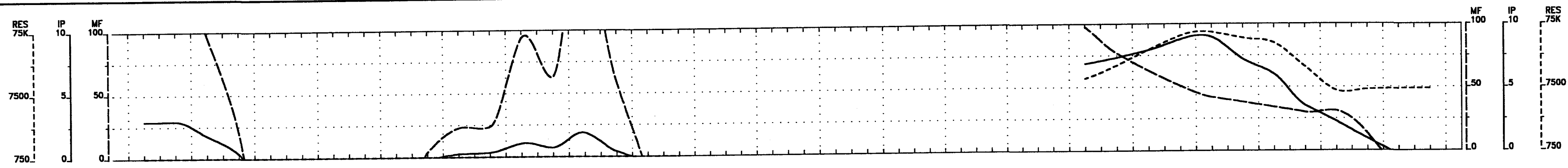


ANGLAUMAQUE EXPLORATIONS INC.
 TOTEM SCIENCES INC.

Hewitt Prospect
 Matheson Area, Beatty Twp.

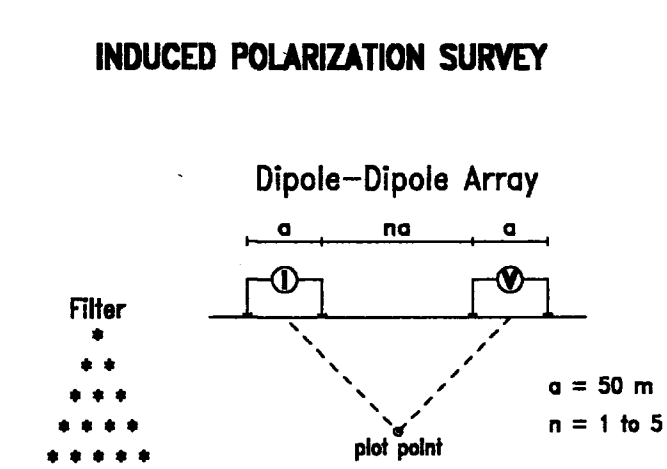
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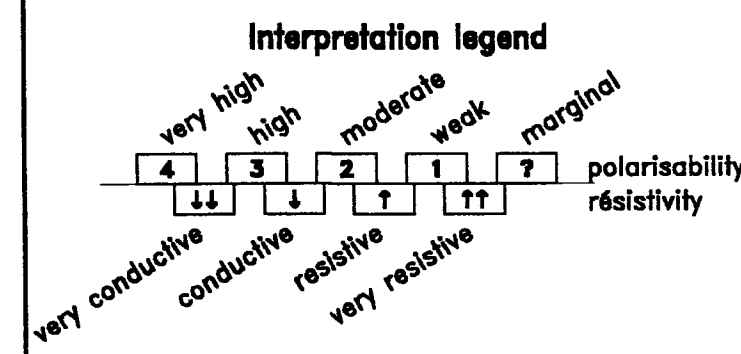
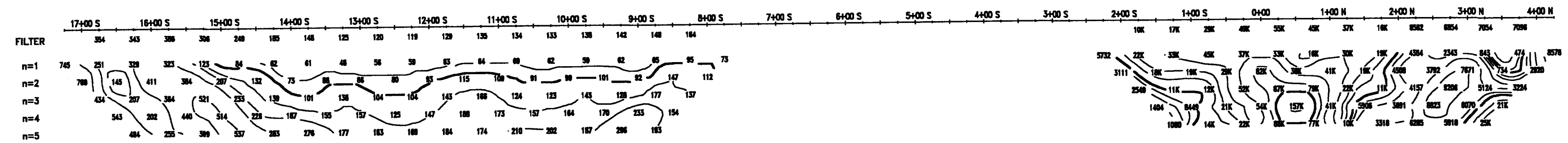
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TOPOGRAPHY



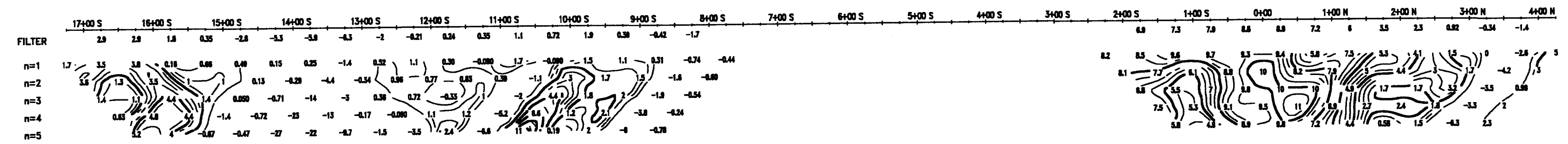
APPARENT RESISTIVITY (ohm-m)

APPARENT RESISTIVITY (ohm-m)



APPARENT CHARGEABILITY (mV/V)

APPARENT CHARGEABILITY (mV/V)

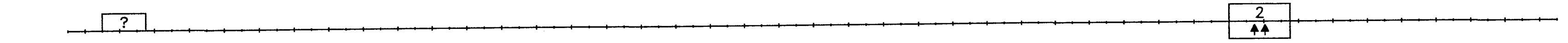


Contour interval:
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Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

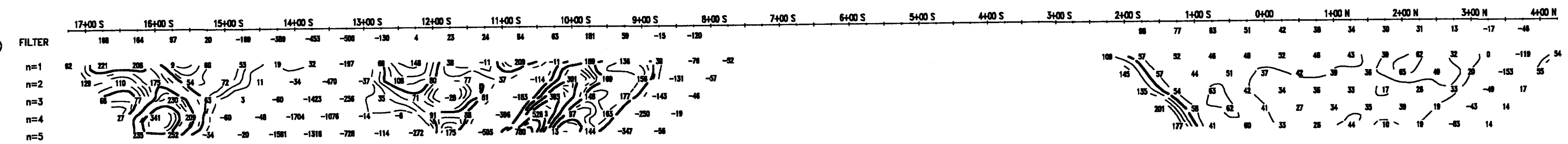
INTERPRETATION

INTERPRETATION

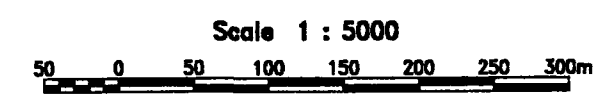


METAL FACTOR (1000*Ma/(Ra)~0.5)

METAL FACTOR (1000*Ma/(Ra)~0.5)



Line 100W

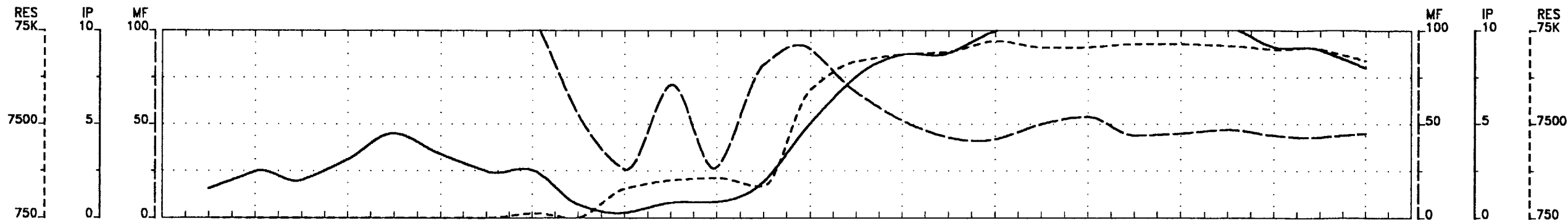


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
Matheson Area, Beatty Twp.

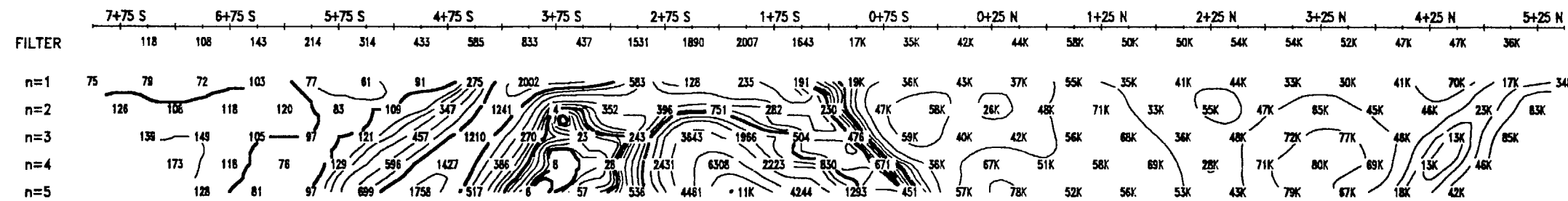
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Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142



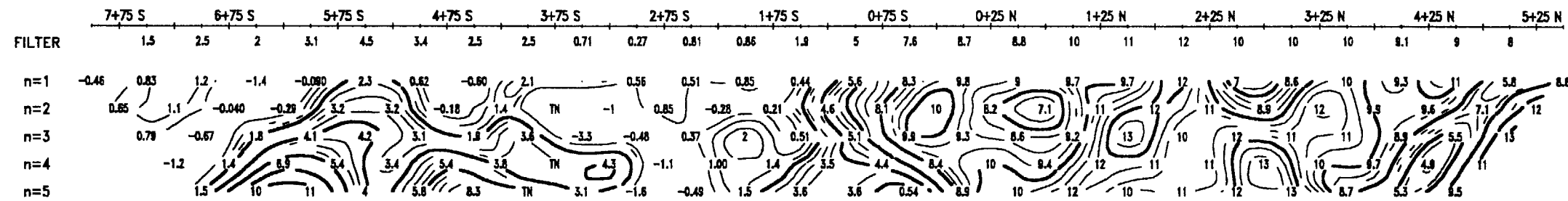


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APPARENT RESISTIVITY (ohm-m)

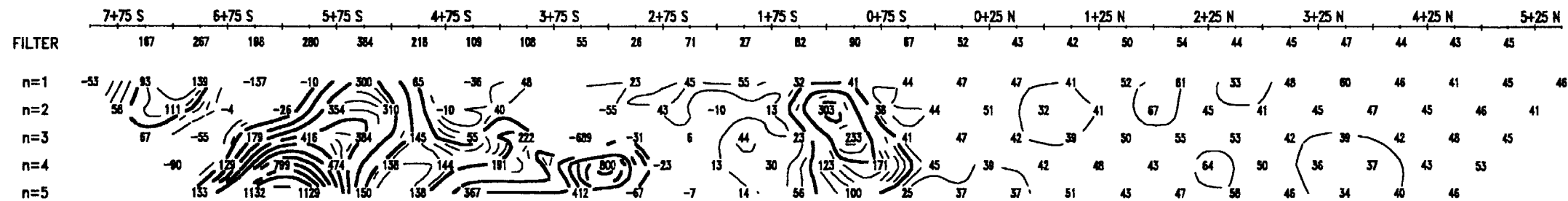


APPARENT CHARGEABILITY (mV/V)

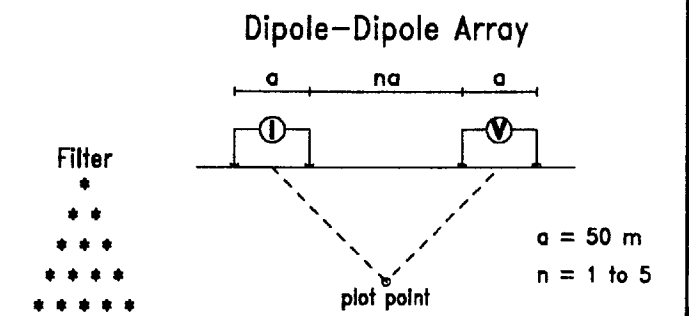


INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)-0.5)

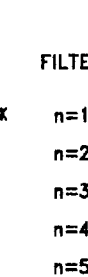


INDUCED POLARIZATION SURVEY

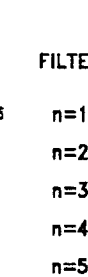


TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)

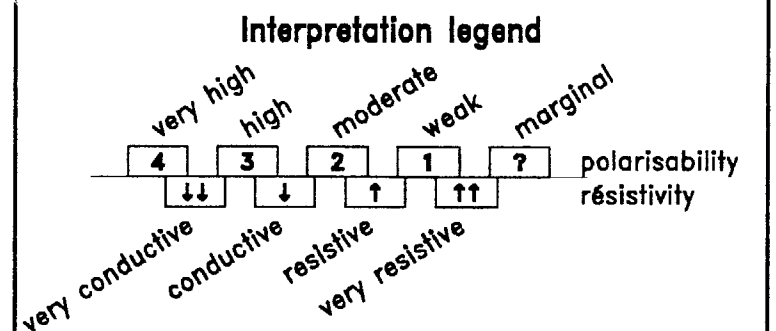


APPARENT CHARGEABILITY (mV/V)



INTERPRETATION

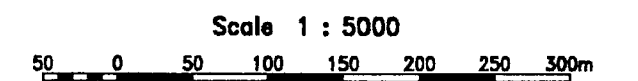
METAL FACTOR (1000*Ma/(Ra)-0.5)



Contour Interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10...
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 100E

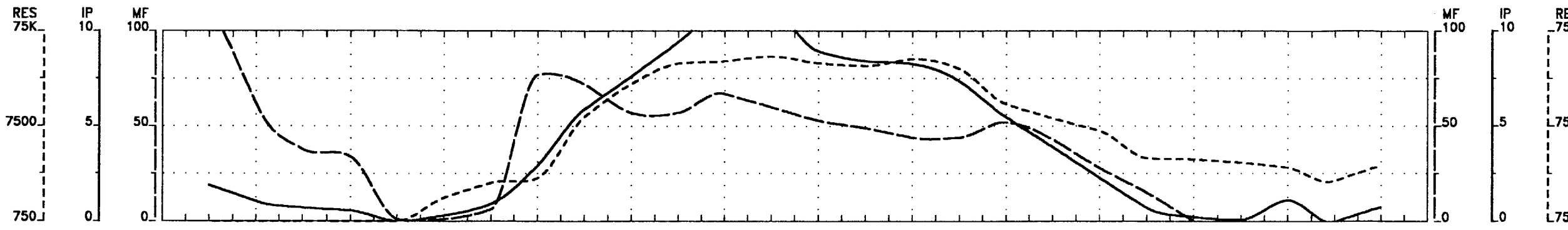


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

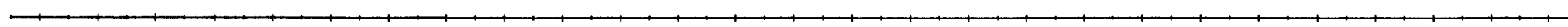
Hewitt Prospect
Matheson Area, Beatty Twp.

Interpreted by: Pierre Boileau, Eng.
Date of survey: December 1996
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Reference: 96-N142

VAL D'OR
SAGAX

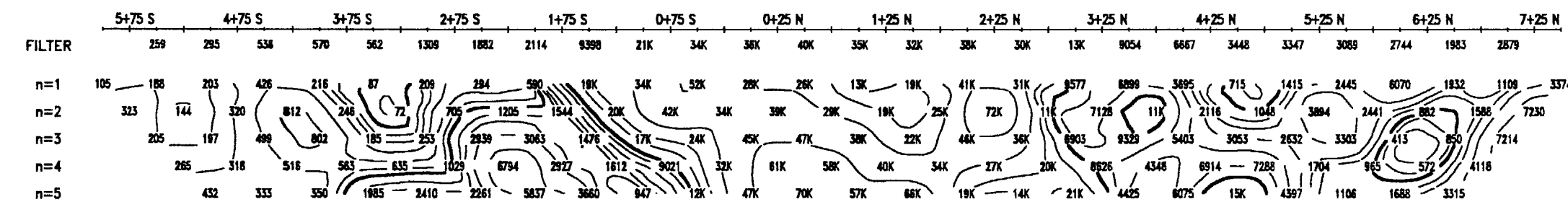


TOPOGRAPHY

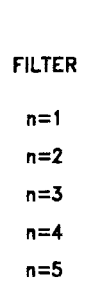


TOPOGRAPHY

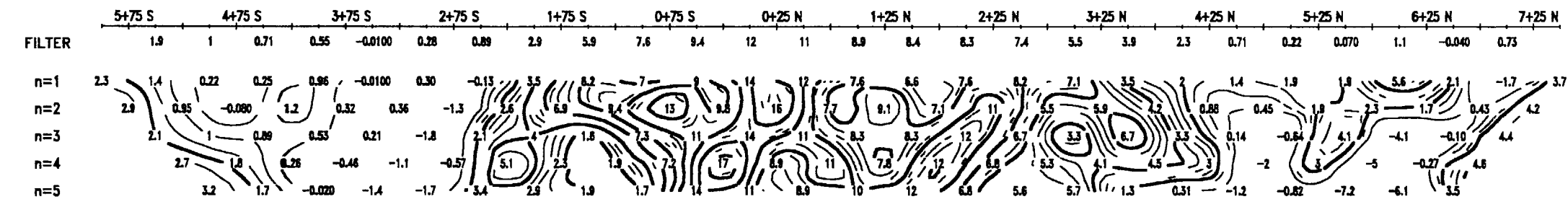
APPARENT RESISTIVITY (ohm-m)



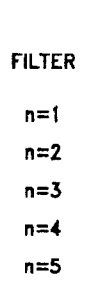
APPARENT RESISTIVITY (ohm-m)



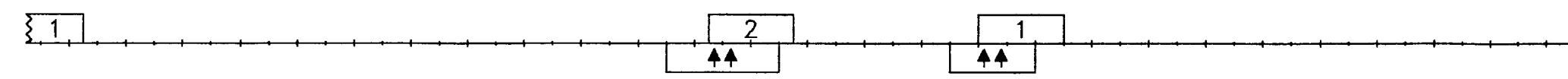
APPARENT CHARGEABILITY (mV/V)



APPARENT CHARGEABILITY (mV/V)

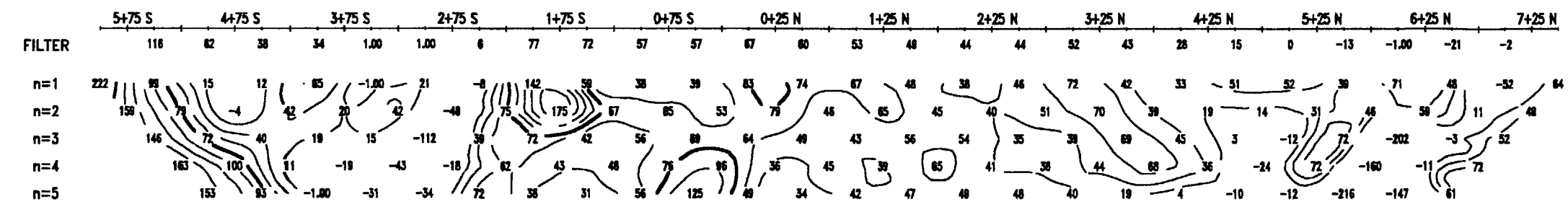


INTERPRETATION

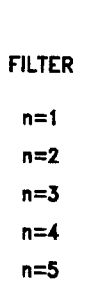


INTERPRETATION

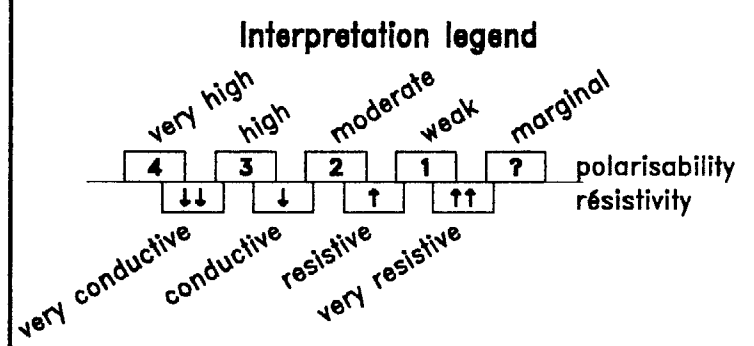
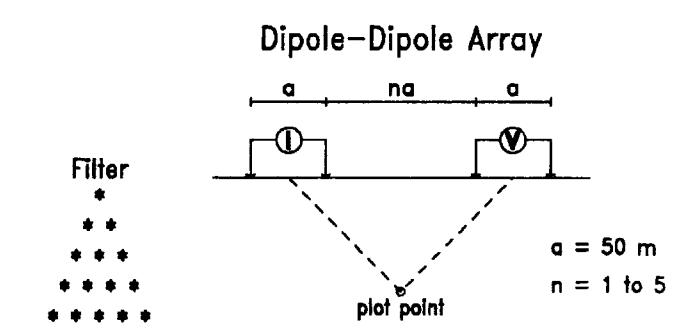
METAL FACTOR (1000*Ma/(Ra)~0.5)



METAL FACTOR (1000*Ma/(Ra)~0.5)



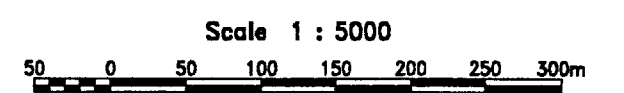
INDUCED POLARIZATION SURVEY



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 300E

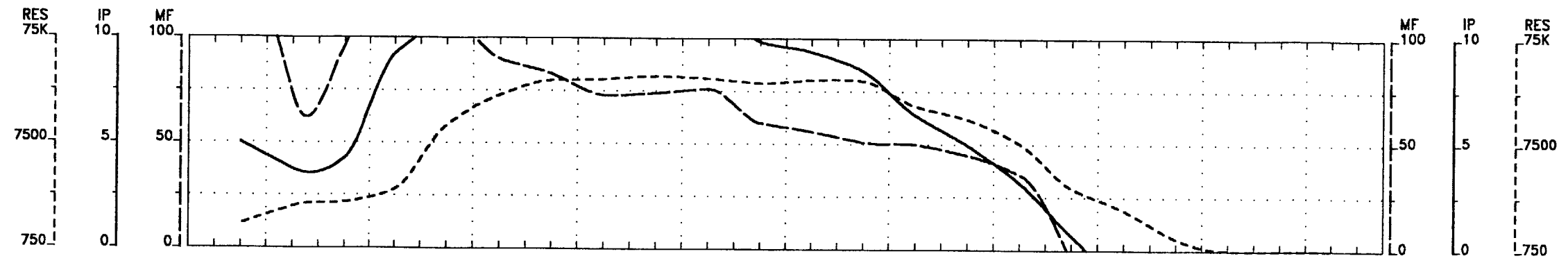


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
Matheson Area, Beatty Twp.

Interpreted by: Pierre Boileau, Eng.
Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142

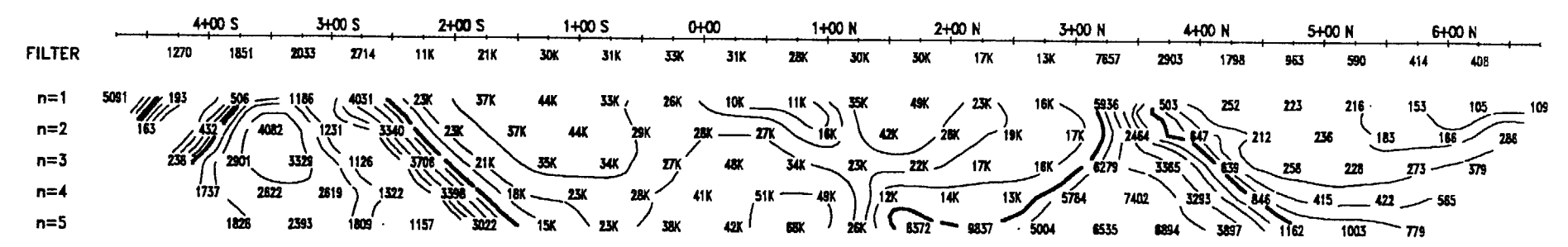




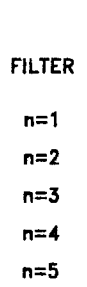
TOPOGRAPHY

TOPOGRAPHY

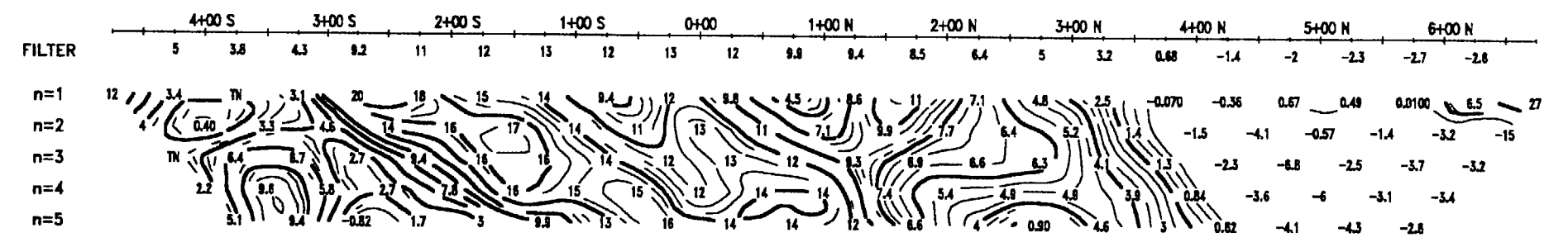
APPARENT RESISTIVITY (ohm-m)



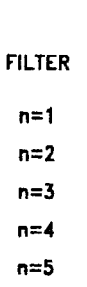
APPARENT RESISTIVITY (ohm-m)



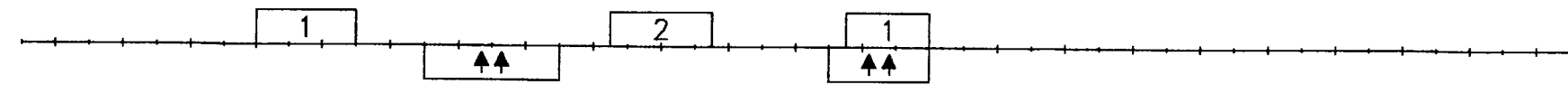
APPARENT CHARGEABILITY (mV/V)



APPARENT CHARGEABILITY (mV/V)

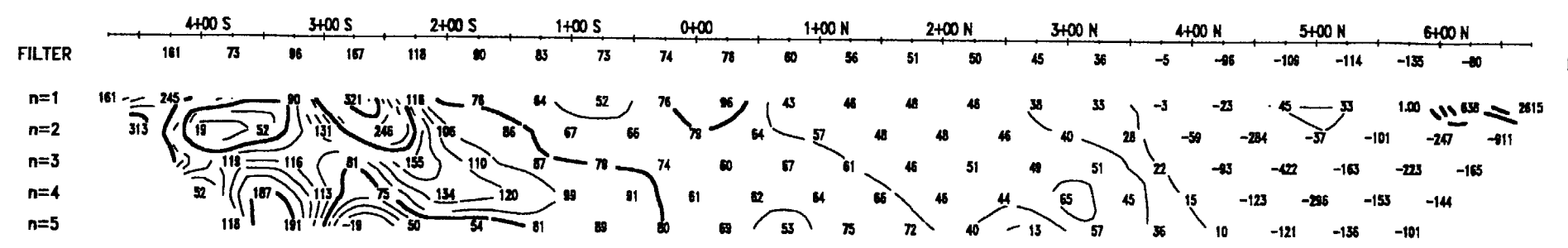


INTERPRETATION

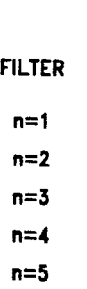


INTERPRETATION

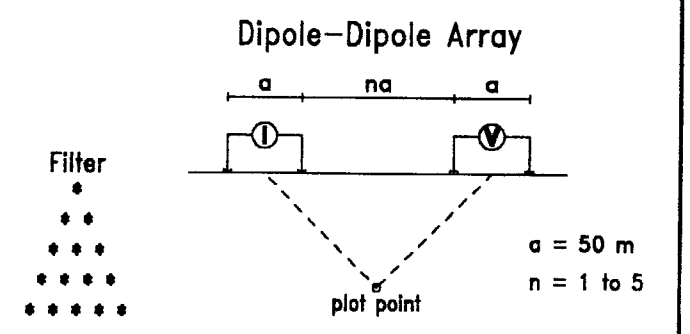
METAL FACTOR (1000*Ma/(Ra)~0.5)



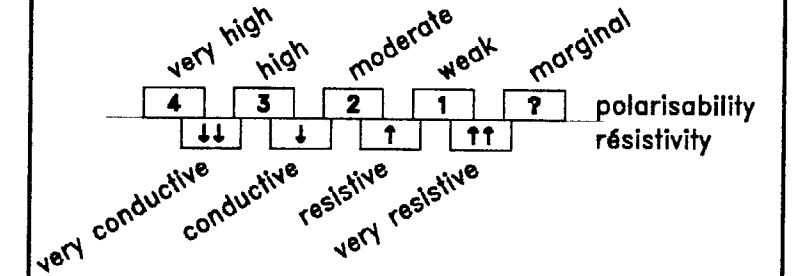
METAL FACTOR (1000*Ma/(Ra)~0.5)



INDUCED POLARIZATION SURVEY



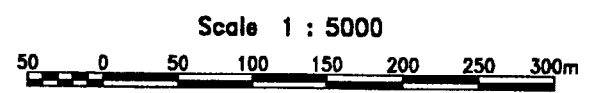
Interpretation legend



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 400E

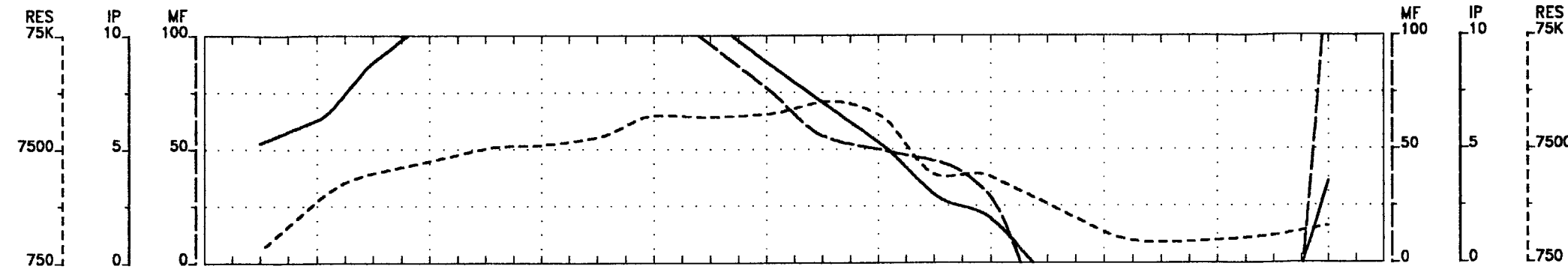


ANGLAUMAQUE EXPLORATIONS INC.
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Hewitt Prospect
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Reference: 96-N142

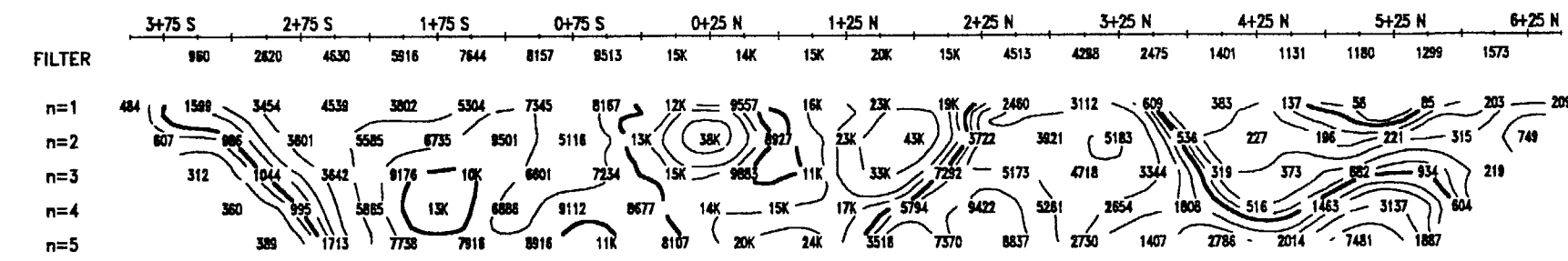




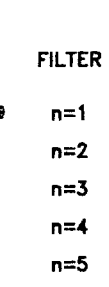
TOPOGRAPHY

TOPOGRAPHY

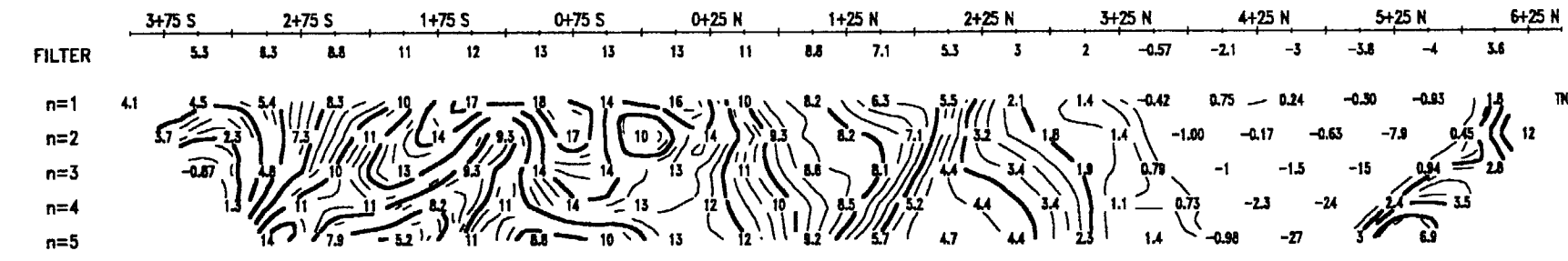
APPARENT RESISTIVITY (ohm-m)



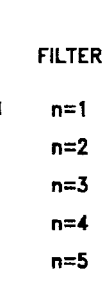
APPARENT RESISTIVITY (ohm-m)



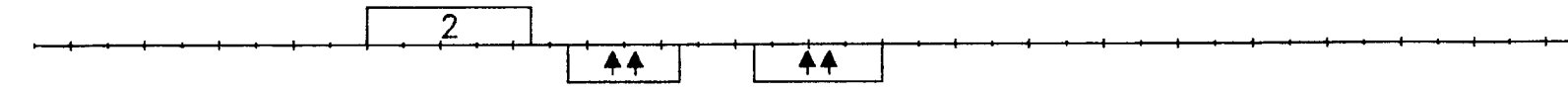
APPARENT CHARGEABILITY (mV/V)



APPARENT CHARGEABILITY (mV/V)

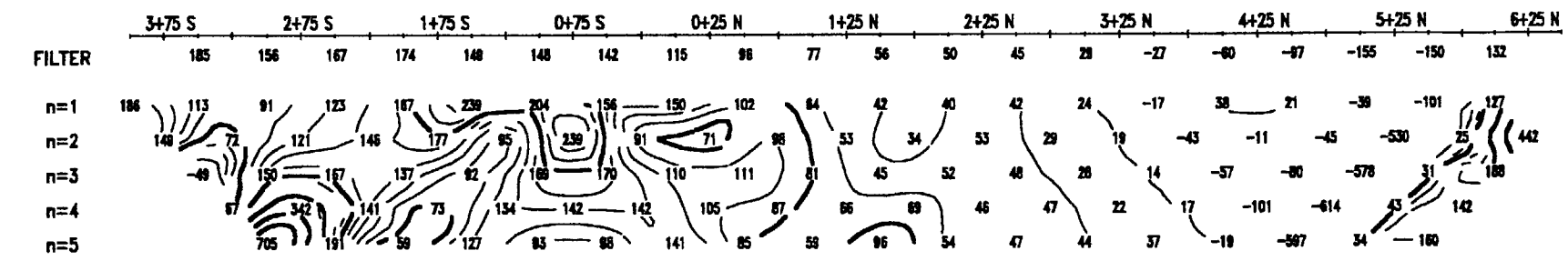


INTERPRETATION

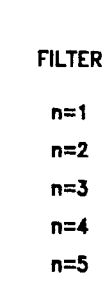


INTERPRETATION

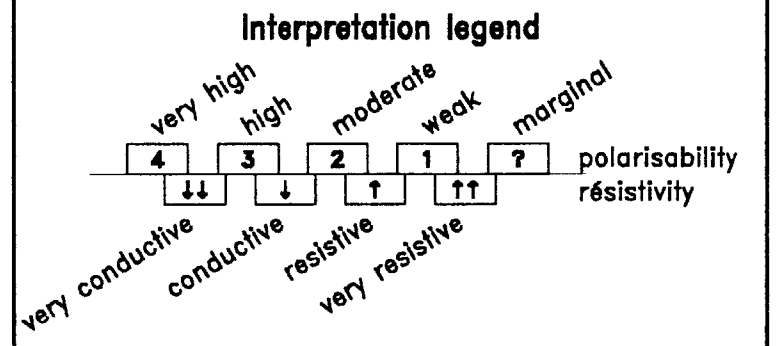
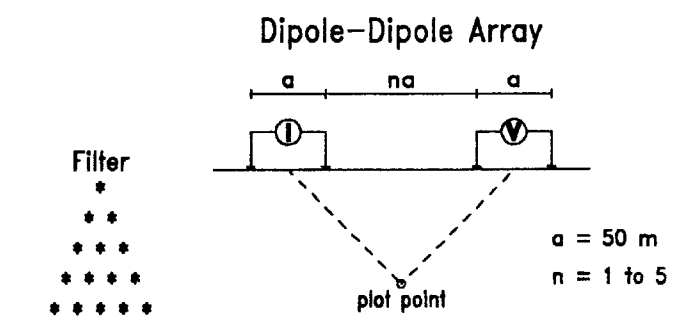
METAL FACTOR (1000*Ma/(Ra)~0.5)



METAL FACTOR (1000*Ma/(Ra)~0.5)



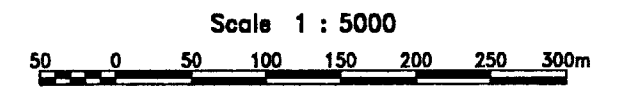
INDUCED POLARIZATION SURVEY



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 500E

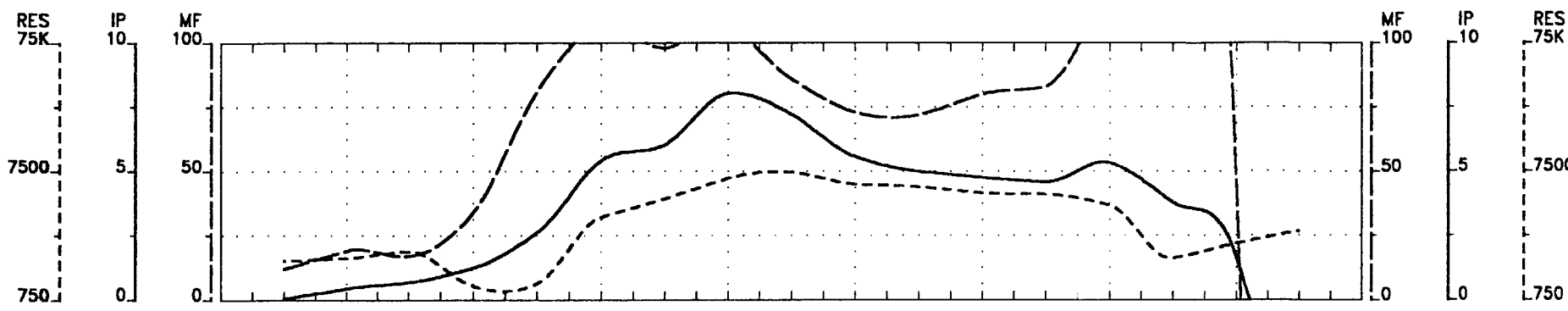


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

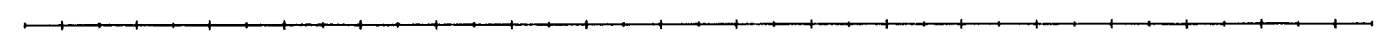
Hewitt Prospect
Matheson Area, Beatty Twp.

Interpreted by: Pierre Boileau, Eng.
Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142



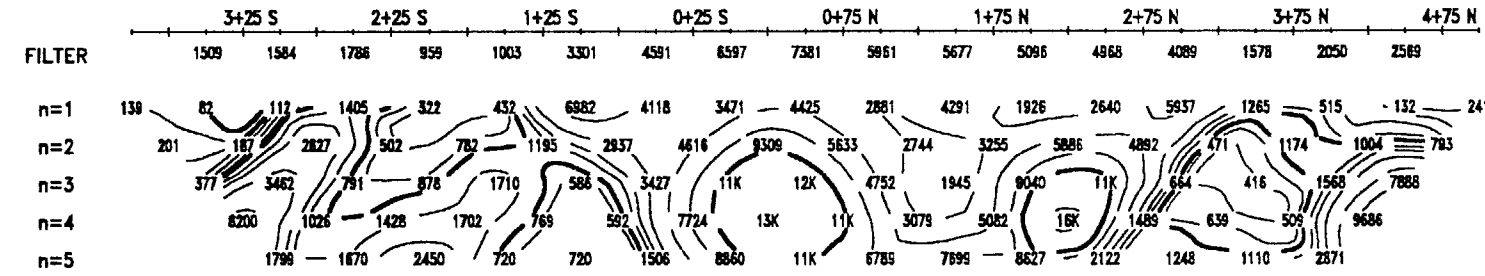


TOPOGRAPHY



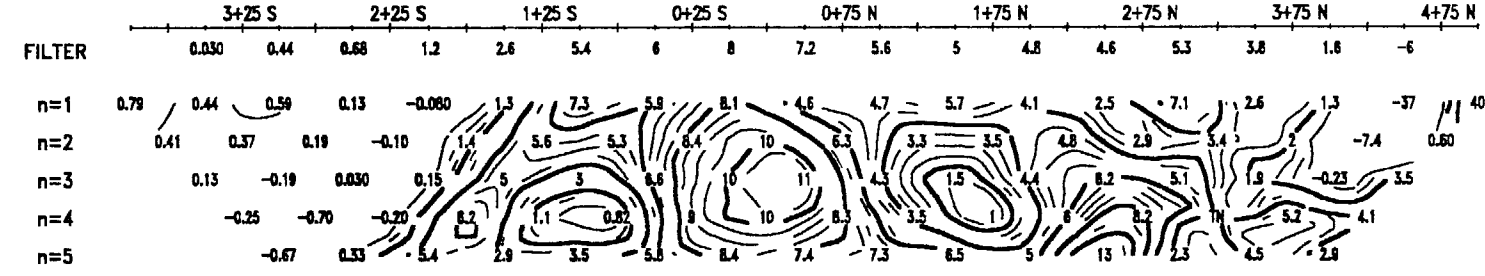
TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)



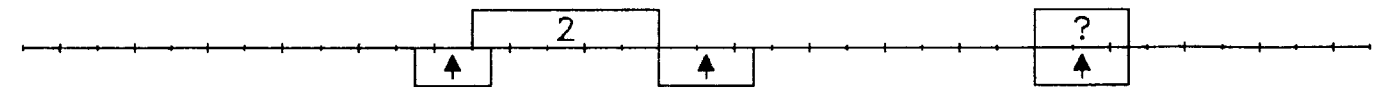
APPARENT RESISTIVITY (ohm-m)

APPARENT CHARGEABILITY (mV/V)



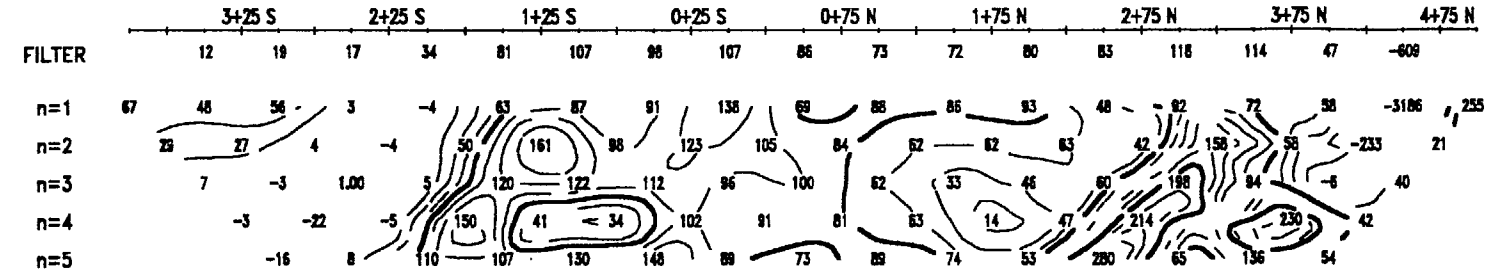
APPARENT CHARGEABILITY (mV/V)

INTERPRETATION



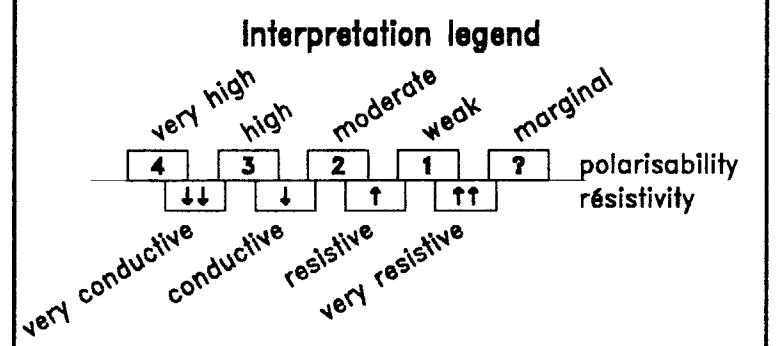
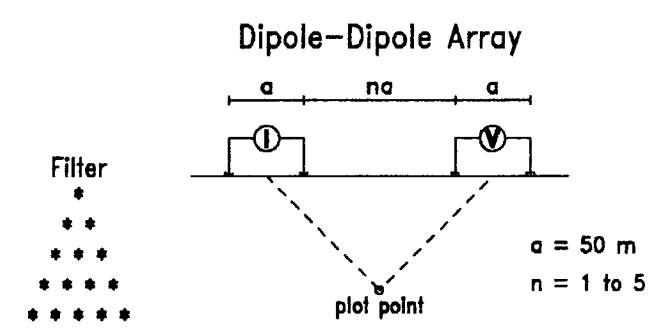
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)-0.5)



METAL FACTOR (1000*Ma/(Ra)-0.5)

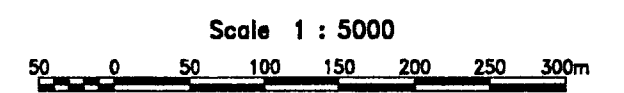
INDUCED POLARIZATION SURVEY



Contour Interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 600E

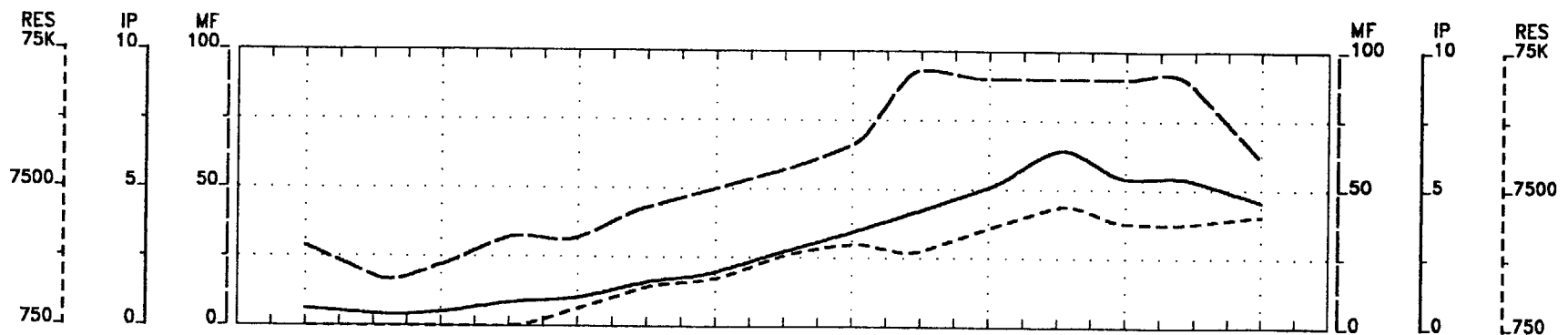


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
Matheson Area, Beatty Twp.

Interpreted by: Pierre Bolleau, Eng.
Date of survey: December 1996
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Reference: 96-N142



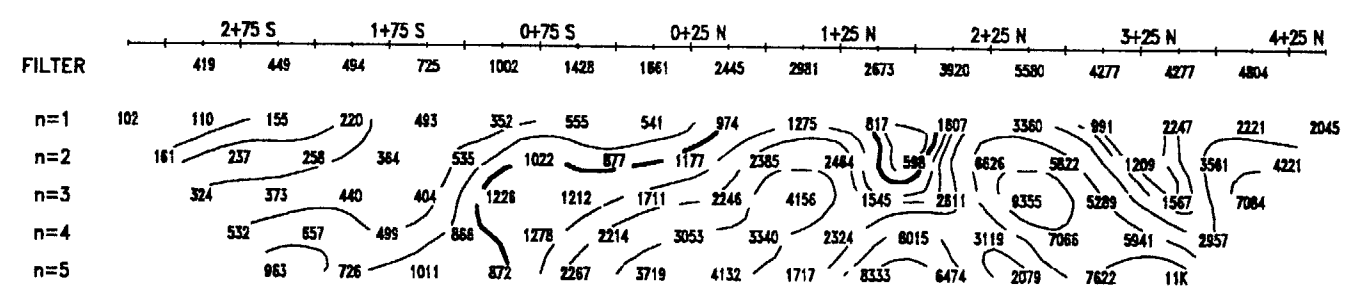


TOPOGRAPHY

TOPOGRAPHY

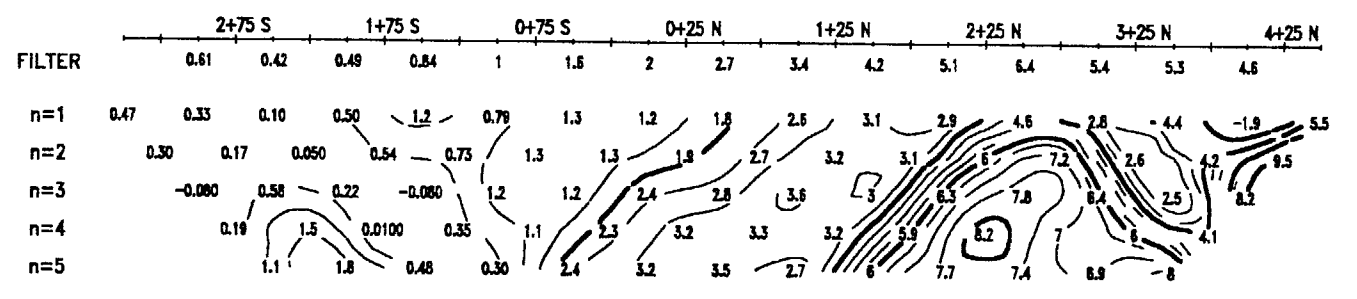
APPARENT RESISTIVITY (ohm-m)

APPARENT RESISTIVITY (ohm-m)



APPARENT CHARGEABILITY (mV/V)

APPARENT CHARGEABILITY (mV/V)

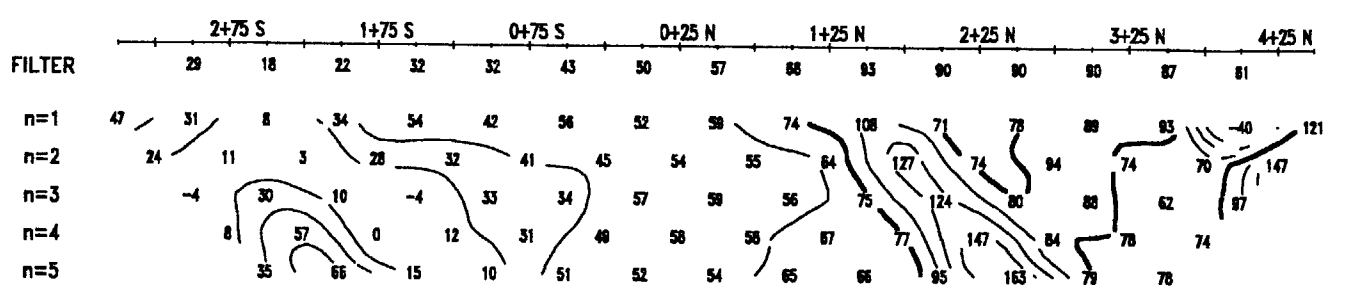


INTERPRETATION

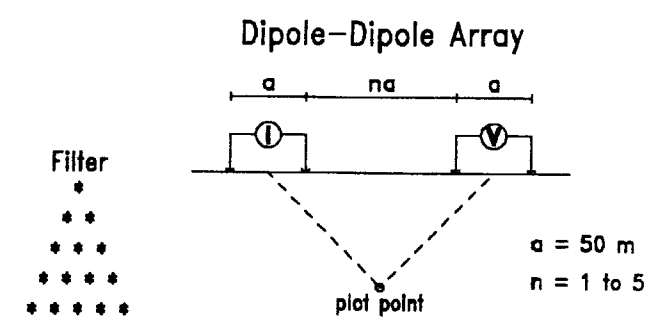
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)

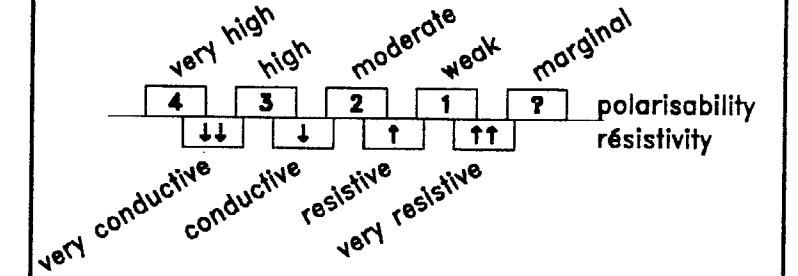
METAL FACTOR (1000*Ma/(Ra)~0.5)



INDUCED POLARIZATION SURVEY



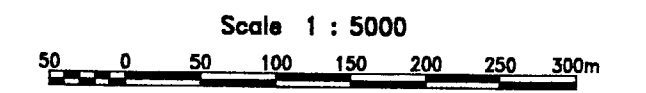
Interpretation legend



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 700E

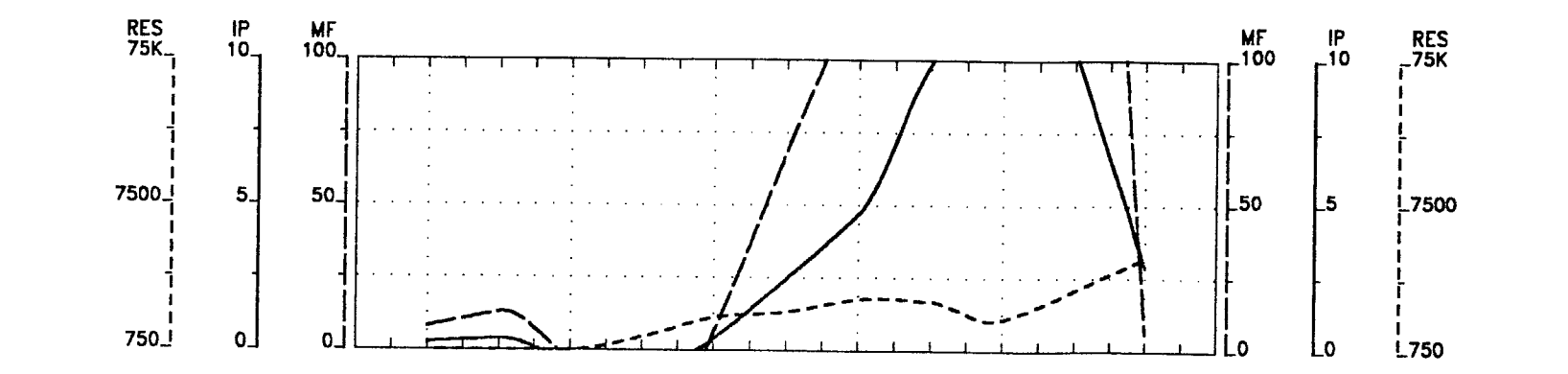


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
Matheson Area, Beatty Twp.

Interpreted by: Pierre Boileau, Eng.
Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142

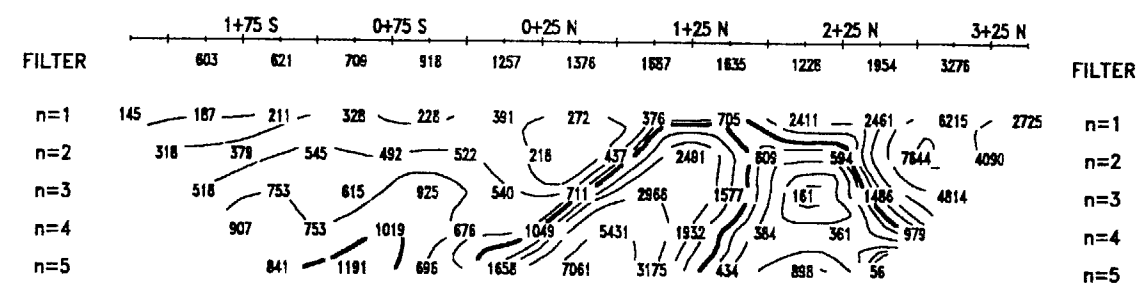




TOPOGRAPHY

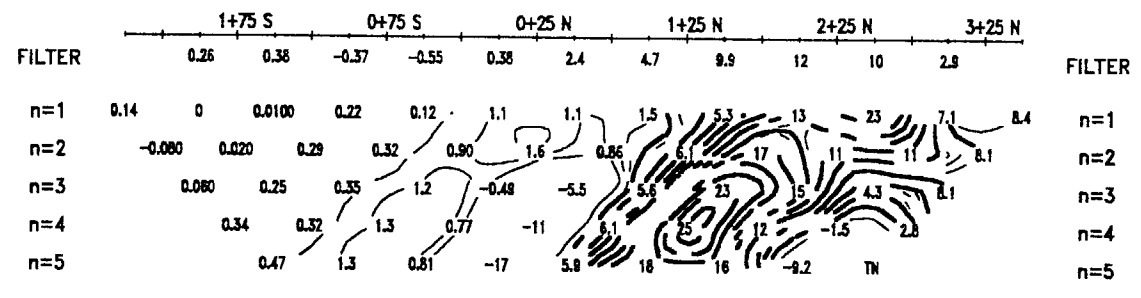
TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)



APPARENT RESISTIVITY (ohm-m)

APPARENT CHARGEABILITY (mV/V)

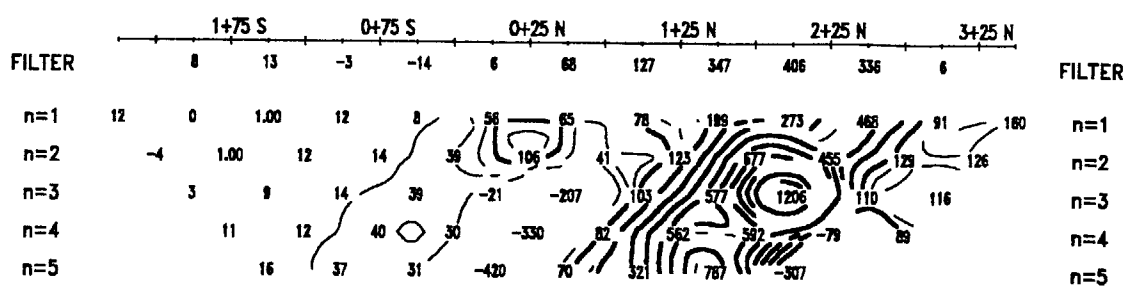


APPARENT CHARGEABILITY (mV/V)

INTERPRETATION

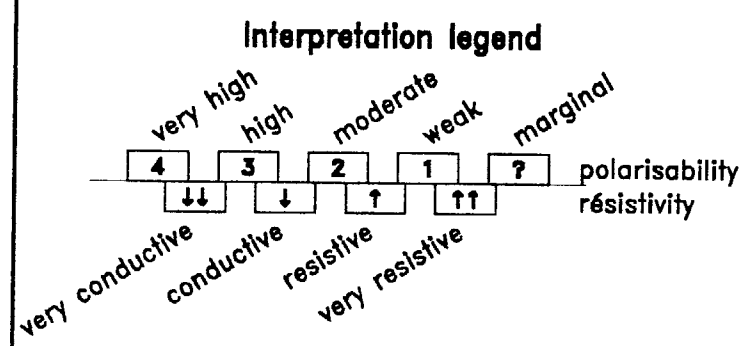
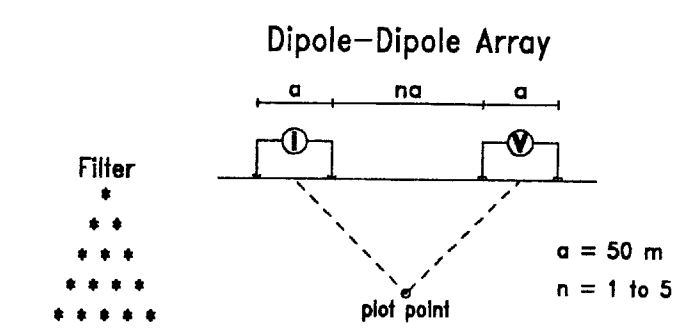
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)



METAL FACTOR (1000*Ma/(Ra)~0.5)

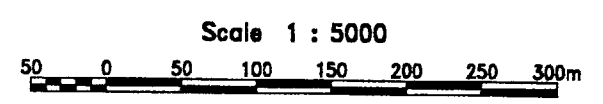
INDUCED POLARIZATION SURVEY



Contour interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 800E

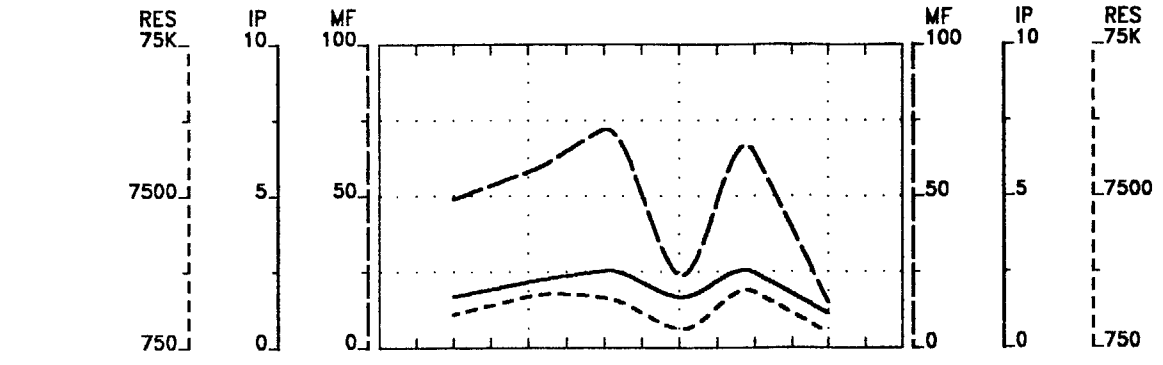


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TOTEM SCIENCES INC.

Hewitt Prospect
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Date of survey: December 1996
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Reference: 96-N142

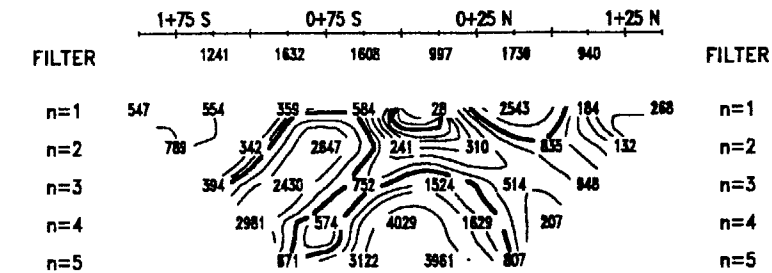




TOPOGRAPHY

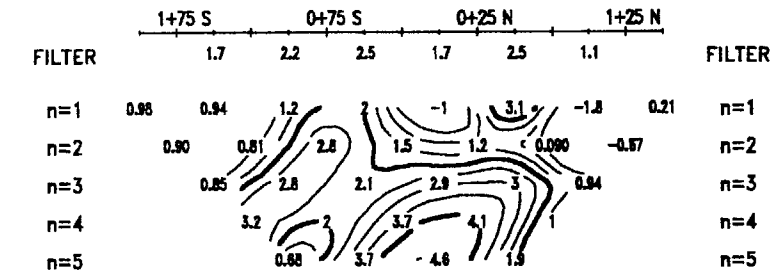
TOPOGRAPHY

APPARENT RESISTIVITY (ohm-m)



APPARENT RESISTIVITY (ohm-m)

APPARENT CHARGEABILITY (mV/V)

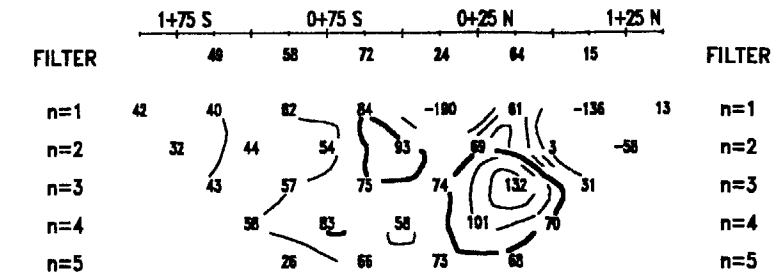


APPARENT CHARGEABILITY (mV/V)

INTERPRETATION

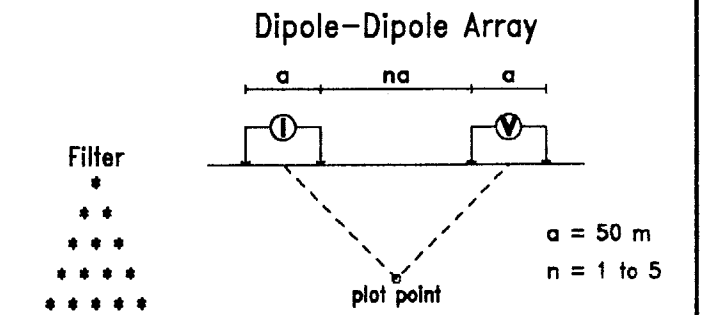
INTERPRETATION

METAL FACTOR (1000*Ma/(Ra)~0.5)

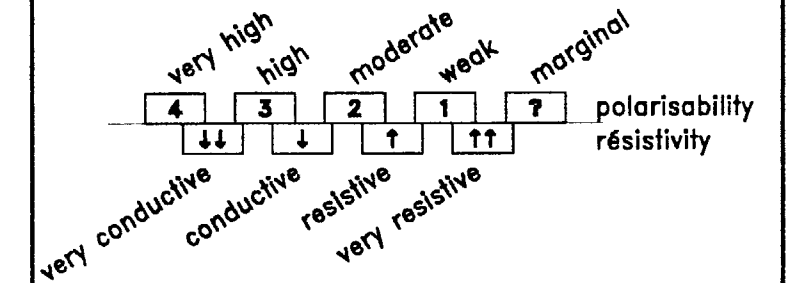


METAL FACTOR (1000*Ma/(Ra)~0.5)

INDUCED POLARIZATION SURVEY



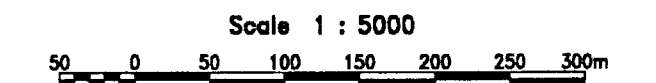
Interpretation legend



Contour Interval:
Resistivity: 1, 1.5, 2, 3, 5, 7.5, 10,..
Chargeability: 0.5
Metal Factor: 20

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1

Line 900E



ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.

Hewitt Prospect
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Interpreted by: Pierre Boileau, Eng.
Date of survey: December 1996
Surveyed by: Jean Meunier
Reference: 96-N142

VAL D'OR
SAGAX

Personal information collected Mining Act, the information is a Questions about this collecti 933 Ramsey Lake Road, Sudb



H: Hewitt Prospect
the Mining Act. Under section 8 of the correspond with the mining land holder. Development and Mines, 6th Floor.

900

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

2.17186

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

Name GLENN MULLAN / 297 3090 Canada Inc	Client Number 173700 / 300337
Address 152 chemin de la Mine Ecole Val d'Or, Quebec, J9P 4N7	Telephone Number (819) 824-1030
	Fax Number (819) 824-1003
Name Tom Obradovich	Client Number 177382
Address P.O. Box 1146 KIRKLAND LAKE, ONTARIO P2N 3M7	Telephone Number (705) 567-6883
	Fax Number (705) 567-6873

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

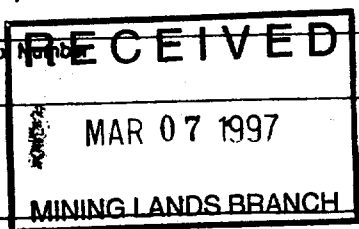
Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type Geophysics: Magnetics, H.E.M. Electromagnetics and Induced Polarization	Office Use
Dates Work Performed From 10/12/96 To 09/01/97	Commodity
Global Positioning System Data (if available)	Total \$ Value of Work Claimed \$30,992
Township/Area BEATTY M or G-Plan Number M-324	NTS Reference
	Mining Division Larder Lake
	Resident Geologist District K. Lake

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

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

Name Val d'Or Sagax Inc.	Telephone Number (819) 874-2001
Address 50 Lamagne Boul. Val d'Or, Quebec J9P 2H6	Fax Number (819) 874-2002
Name	Telephone Number
Address	Fax Number
Name MAR 07 1997	Telephone Number
Address MINING LANDS BRANCH	Fax Number
MINING LANDS BRANCH	



4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent <i>Larry J. Stoliker</i>	Date March 03, 1997
Agent's Address 103 Carter Ave, KIRKLAND LAKE, ONT P2N 1Z6	Telephone Number (705) 567-9980
	Fax Number (705) 567-6873

JUNE 04/97

must accompany this form.

Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L-1202733	6	\$13775	\$14400		
2 L-1206002	2	5509	4800	709	
3 1206563	1	2066	2400	334 215	
4 1206564	1	2755	2400	355	
5 1206565	1	1377	2400		
6 1207689	1	2755	2400	355	
7 1207690	1	2755	2192	563	
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$30992	\$30992	\$1982	

RECEIVED
 MAR 12 1997

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

Signature of Recorded Holder or Agent Authorized in Writing: Larry J. Stolik Date: March 03/97

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

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

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

MAR 07 1997

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

For Office Use Only

RECEIVED MINING DIVISION 97 MAR 6 AM 10 45	Deemed Approved Date <u>June 4/97</u>	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature) <u>Linda Poyant</u>		



Statement of Costs for Assessment Credit

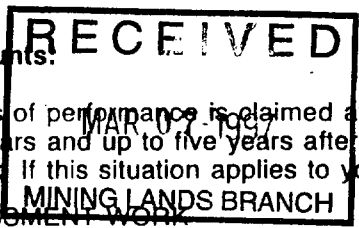
Transaction Number (office use) W9780.00155

TOH: Hewitt Prospect

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Includes entries for Linecutting, Magnetics, H.E.M., I.P., DRAFTING, Field Preparations, Consumables, and Food and Lodging Costs. Total Value of Assessment Work: 30992.48

Calculations of Filing Discounts:



- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 =

MINING LANDS BRANCH

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Larry J. Stoliker, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent I am authorized to make this certification.

Signature: Larry J. Stoliker, Date: March 03 1997

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



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

July 3, 1997

Roy Spooner
Mining Recorder
4 Government Road East
Kirkland Lake, ON
P2N 1A2

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

Dear Sir or Madam:

Submission Number: 2.17186

Status

Subject: Transaction Number(s): W9780.00155 Approval After Notice

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

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

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

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.17186

Date Correspondence Sent: July 03, 1997

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00155	1202733	BEATTY	Approval After Notice	June 19, 1997

Section:

14 Geophysical EM
14 Geophysical MAG
14 Geophysical IP

Thank you for your response to the 45 Day Notice dated May 5, 1997. The submitted information has clarified all costs associated with this submission. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

Correspondence to:

Mining Recorder
Kirkland Lake, ON

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

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

Larry J. Stoliker
KIRKLAND LAKE, ONTARIO, CANADA

GLENN J. MULLAN
SULLIVAN, QUEBEC

2973090 CANADA INC.
VAL D'OR, QUEBEC

THOMAS JOHN ELI OBRADOVICH
KIRKLAND LAKE, Ontario

Couison Twp. (M.340)

NOTES

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

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE WATBEAG MANAGEMENT UNIT, AND MAY BE SUBJECT TO FORESTRY OPERATIONS.

THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:

PO BOX 129
SWANSTKA, ONT.
POK ITO
705-642-3222

MINING RIGHTS WITHDRAWN FROM STAKING, PROSPECTING, SALE OR LEASE, SECTION 35, THE MINING ACT, RSO 1990 W-L-22/96 NER

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

98121

LEGEND

- LEASED FOR MINING RIGHTS ONLY
- PATENTED LAND
- PATENTED FOR SURFACE RIGHTS ONLY
- LEASE
- LICENSE OF OCCUPATION
- CROWN LAND SALE
- LOCATED LAND
- CANCELLED
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- HIGHWAY & ROUTE No.
- ROADS
- TRAILS
- POWER LINES
- MARSH OR MUSKEG
- MINES

*used only with summer resort locations or when space is limited.

TOWNSHIP OF

BEATTY

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

DR. k.k. PLAN No. M.324

DATE Oct./71

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

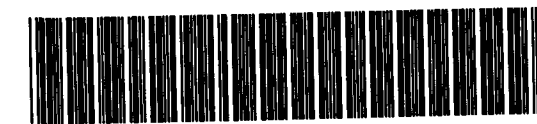
Carr Twp. (M.335)

Munro Twp. (M.376)

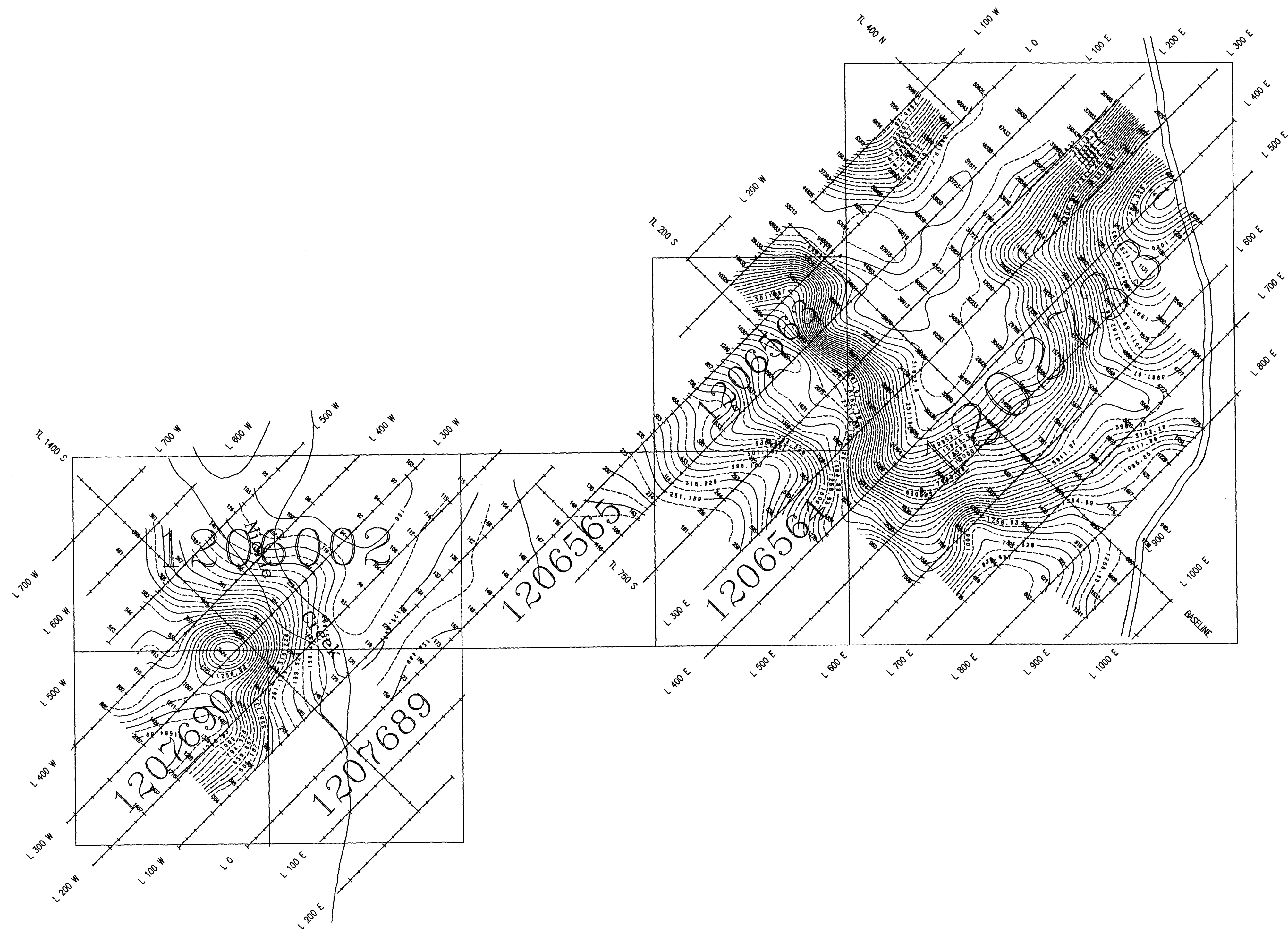
Hislop Twp. (M.355)

CIRCULATED NOVEMBER 29 1994

ARCHIVED JANUARY 25, 1994
ARCHIVED ON JUNE 01/95



42A09SW0166 2.17186 BEATTY



LEGEND

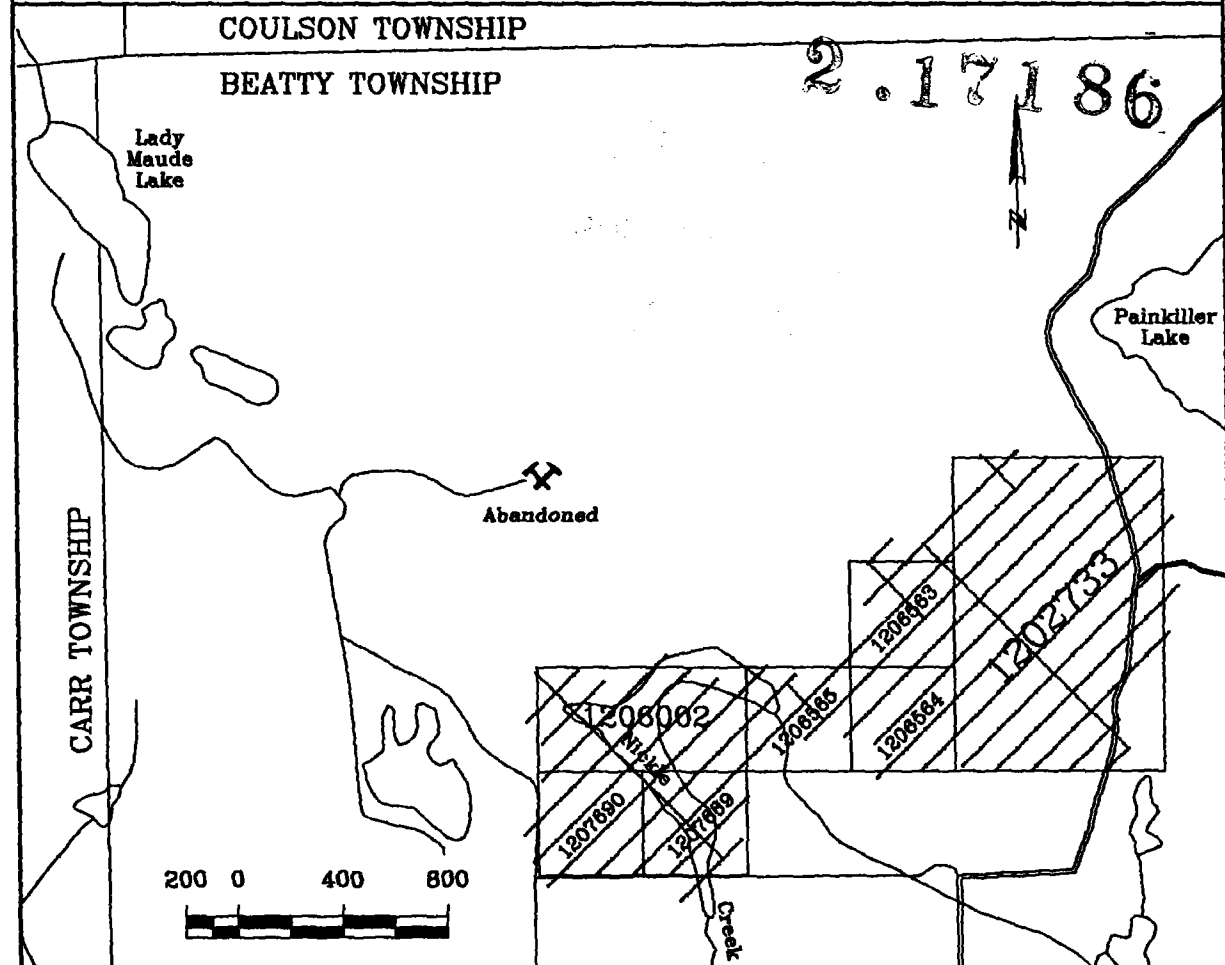
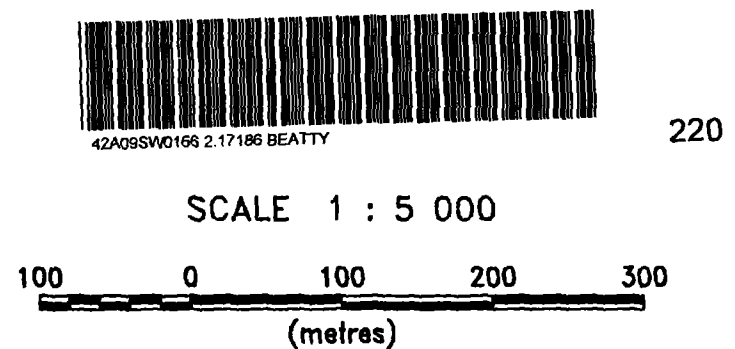
CONTOUR INTERVALS (Ohm-metre)

Logarithmic contours:

-----	0.05	10, 11.2, 12.5, 14.1, 16, 18, 20, 22 ..
-----	0.1	10, 12.5, 16, 20, 25, 32, 40 ..
-----	0.5	10, 32, 100, 320, 1000 ..

Electrode array: Dipole-dipole
 $a = 50 \text{ m}$ $n = 1, 2, 3, 4, 5$

Instruments: Iris Elrec-6, Phoenix IPT-1, MG-1
 Time cycle: 2 sec.

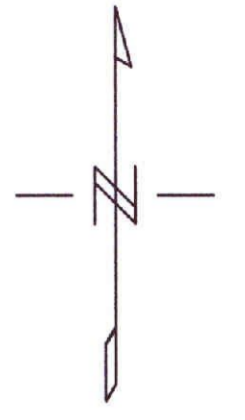
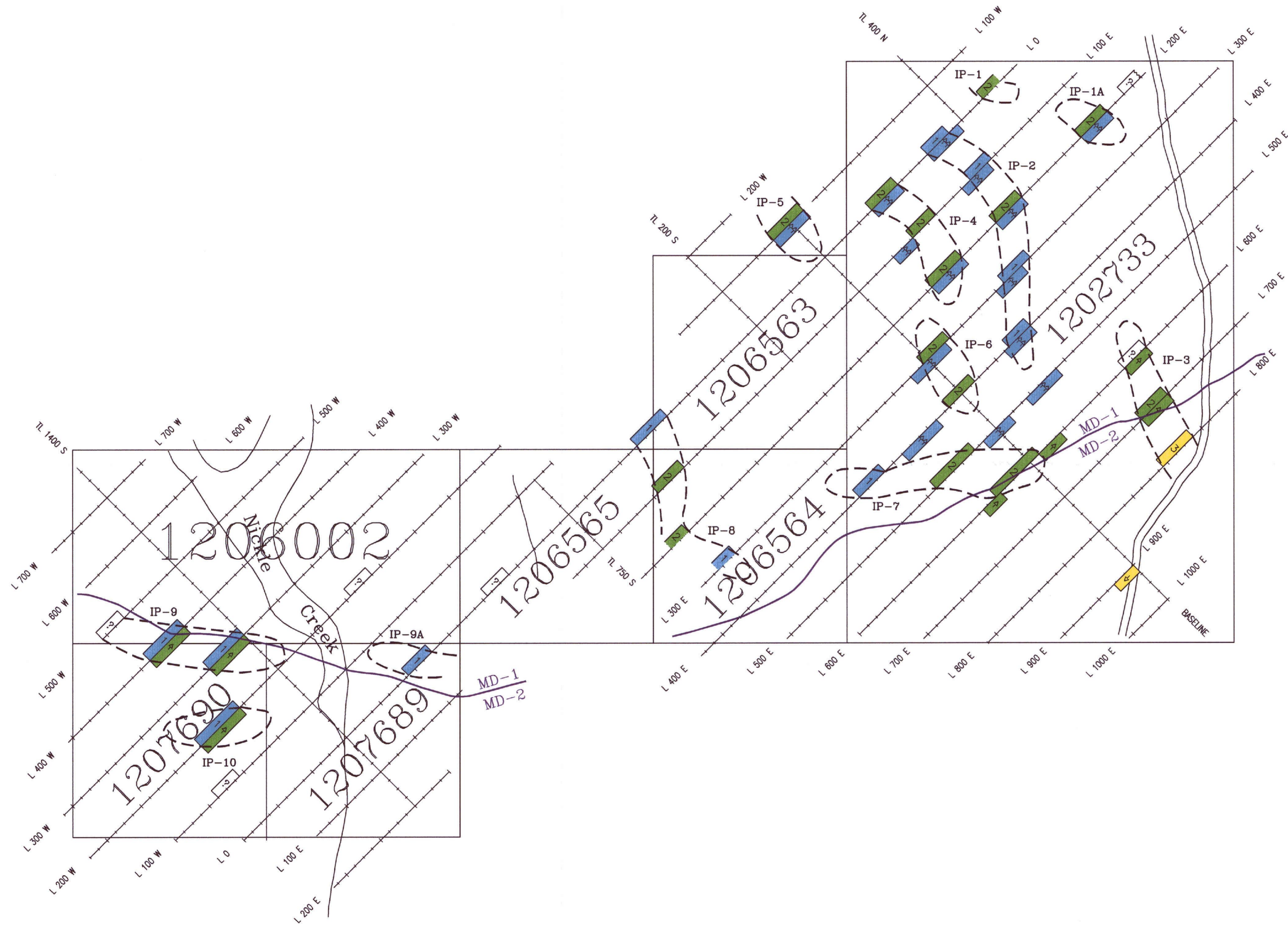


ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

INDUCED POLARIZATION SURVEY
RESISTIVITY CONTOURS (FILTER)

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97
 Scale 1 : 5 000 Drawing no. 96-N142-4.2

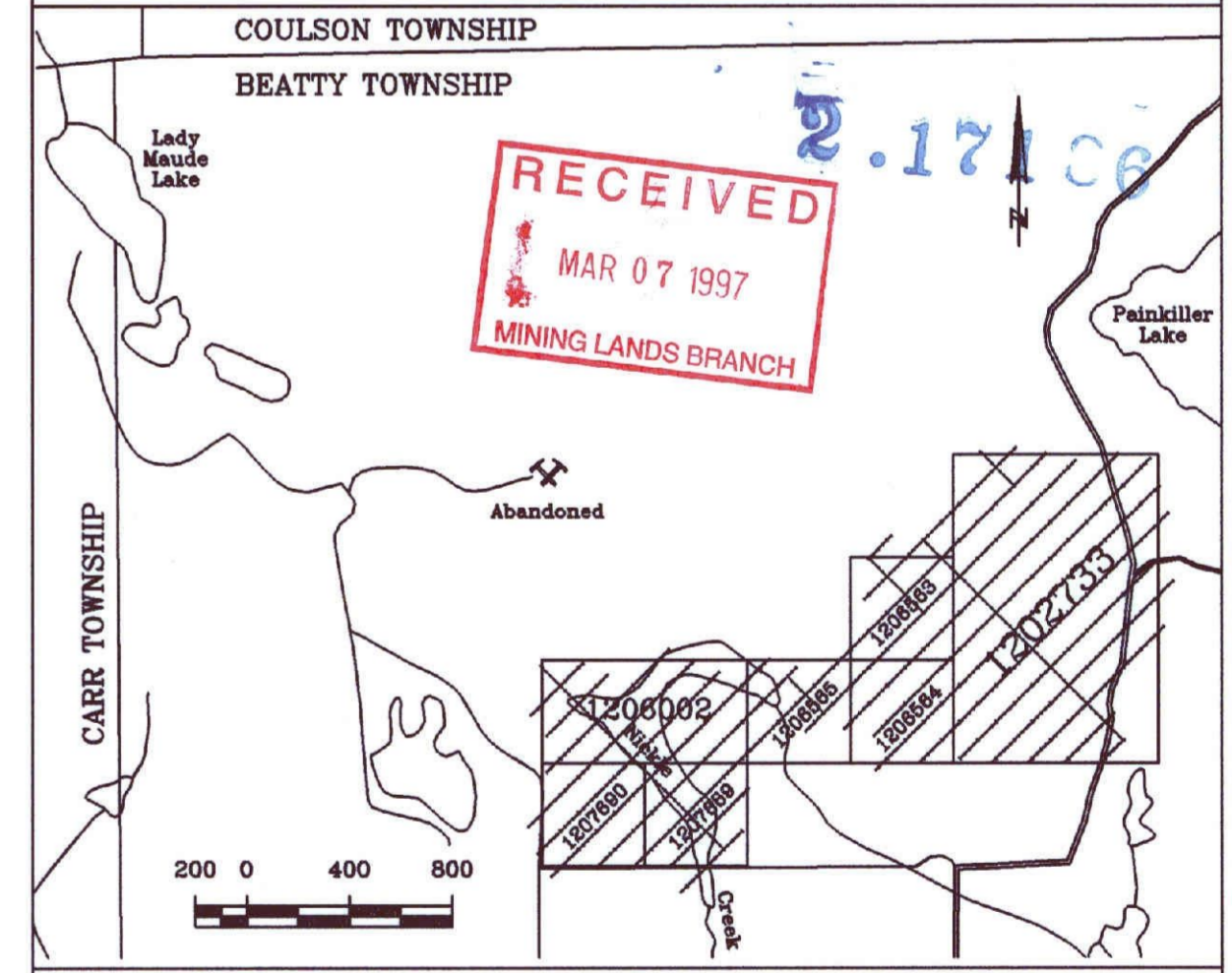
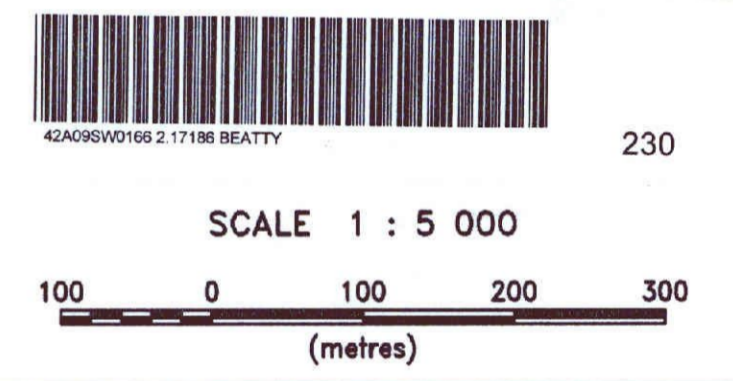


LEGEND

INDUCED POLARIZATION

POLARIZATION	RESISTIVITY
Very high 4	Very resistive 40
High 3	Resistive 30
Moderate 2	Conductive 20
Weak 1	Very conductive 10
Marginal 0	

MD-1
MD-2 Magnetic Domain



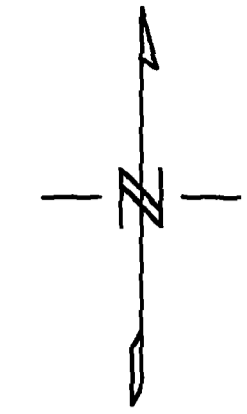
ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

INTERPRETATION

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-7.0



LEGEND

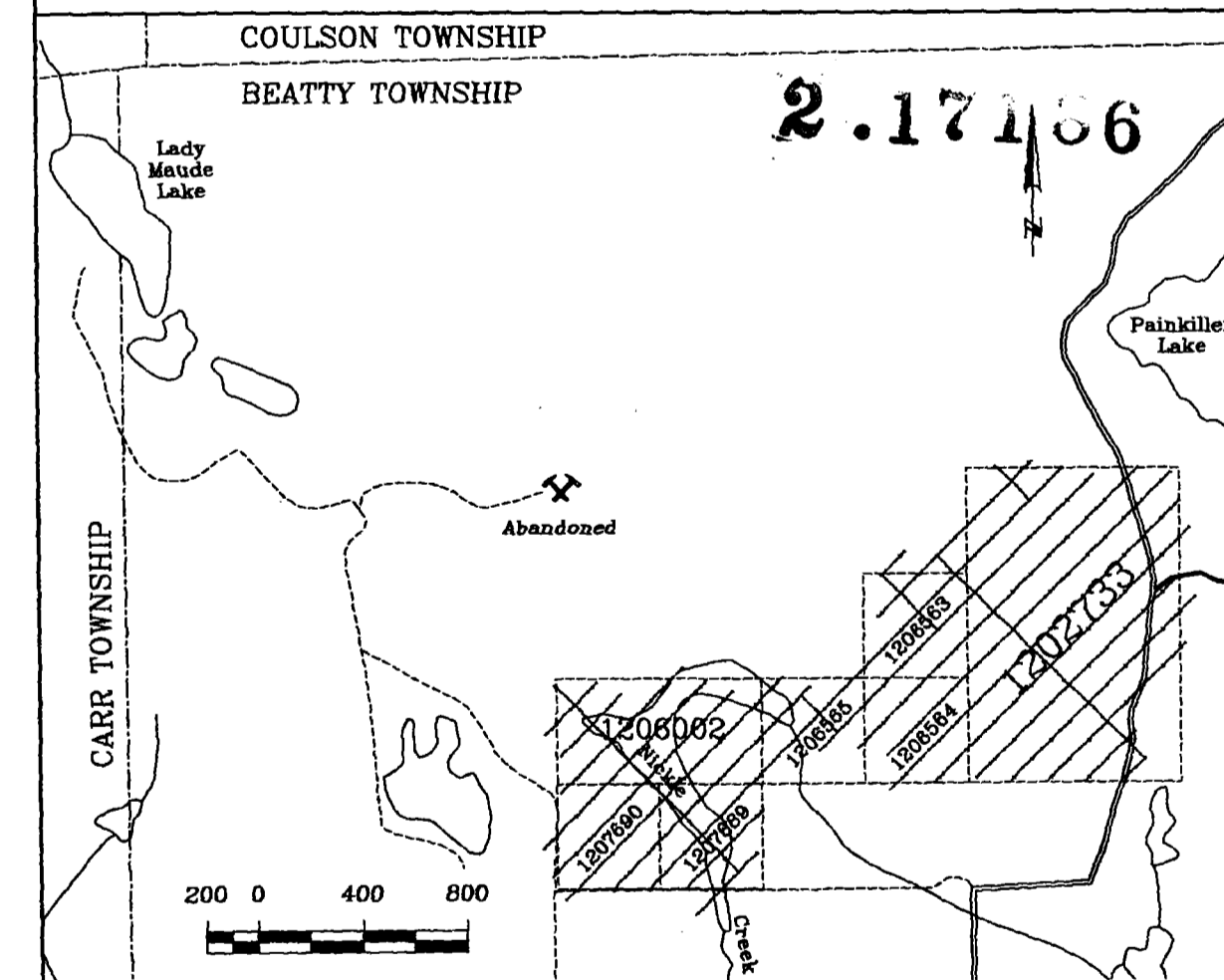
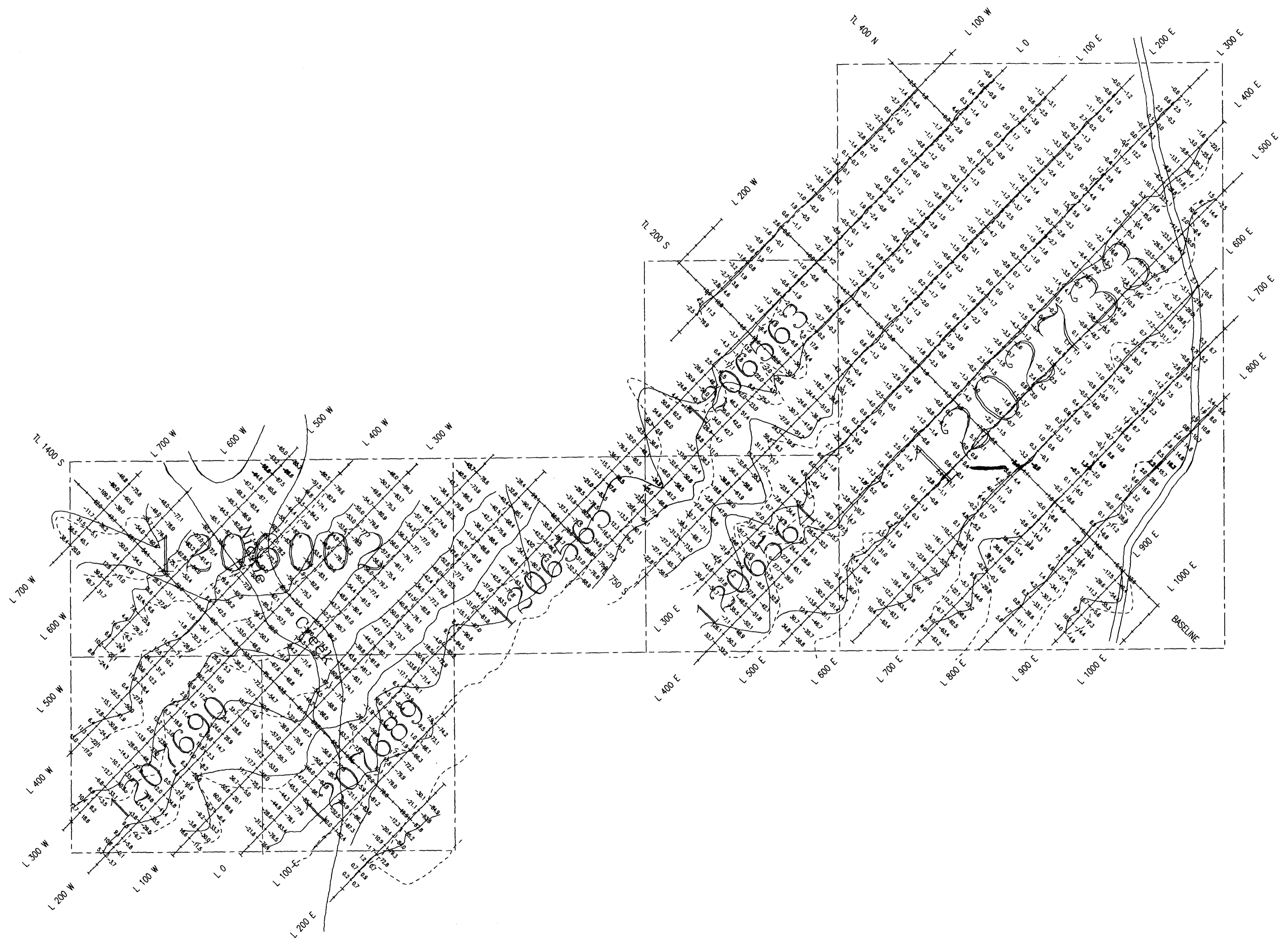
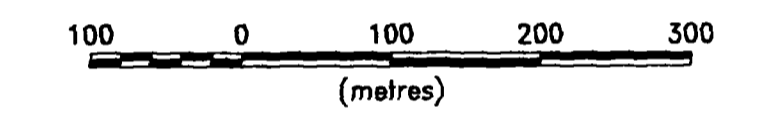
ELECTROMAGNETIC PROFILES

— In-phase 1 cm. = 40 %
 - - - Out-of-phase 1 cm. = 40 %

Readings: In-Phase 1 | -1 | Out-of-phase
 % %

Instrument: APEX, MAXMIN I

SCALE 1 : 5 000



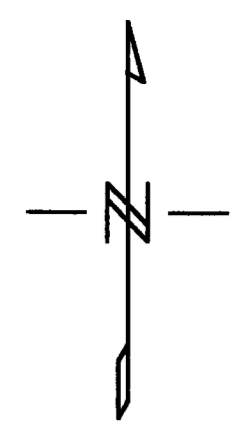
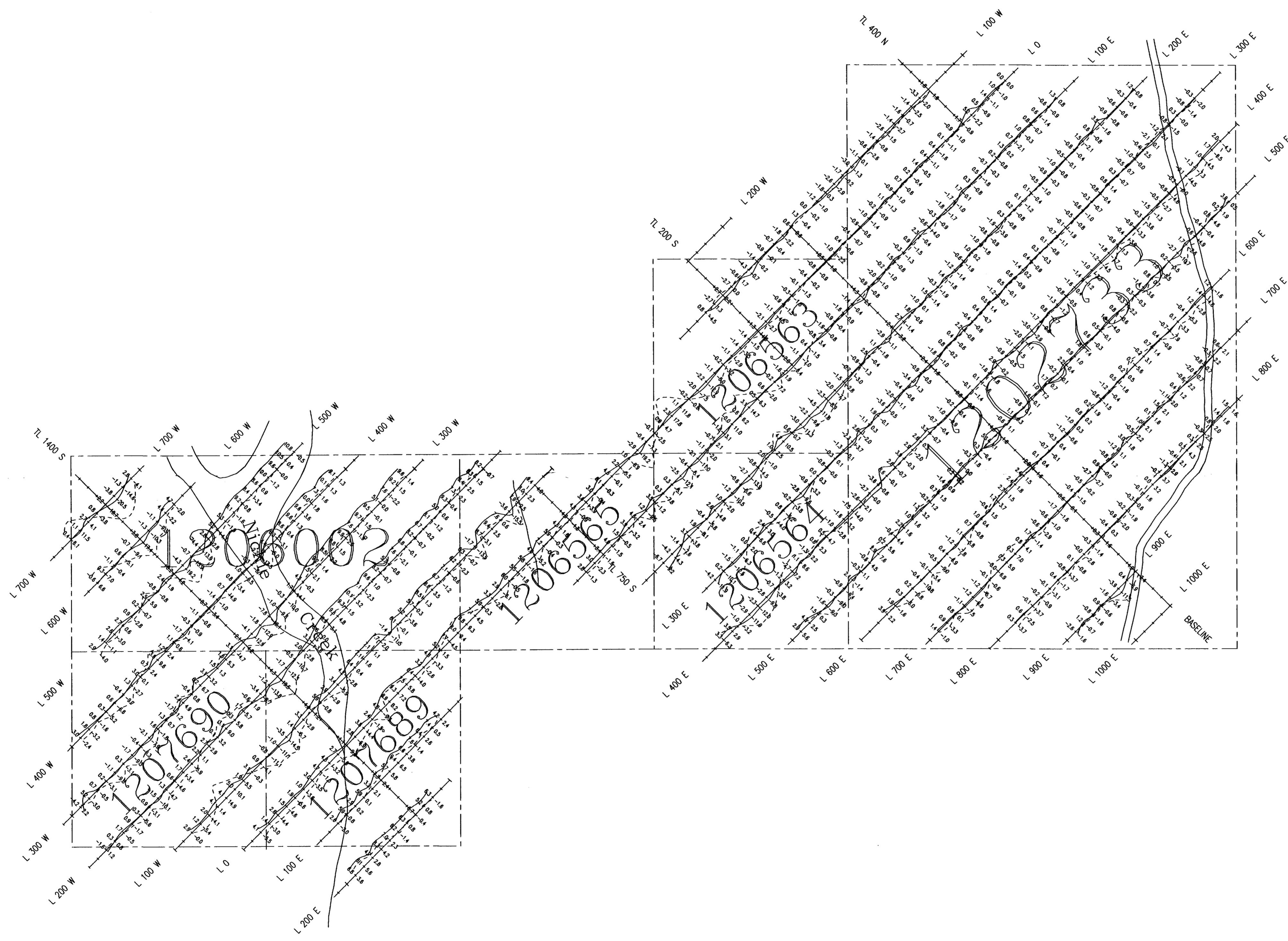
ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

ELECTROMAGNETIC HEM SURVEY
FREQUENCY = 14080 HZ CABLE 100 M

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-3.7

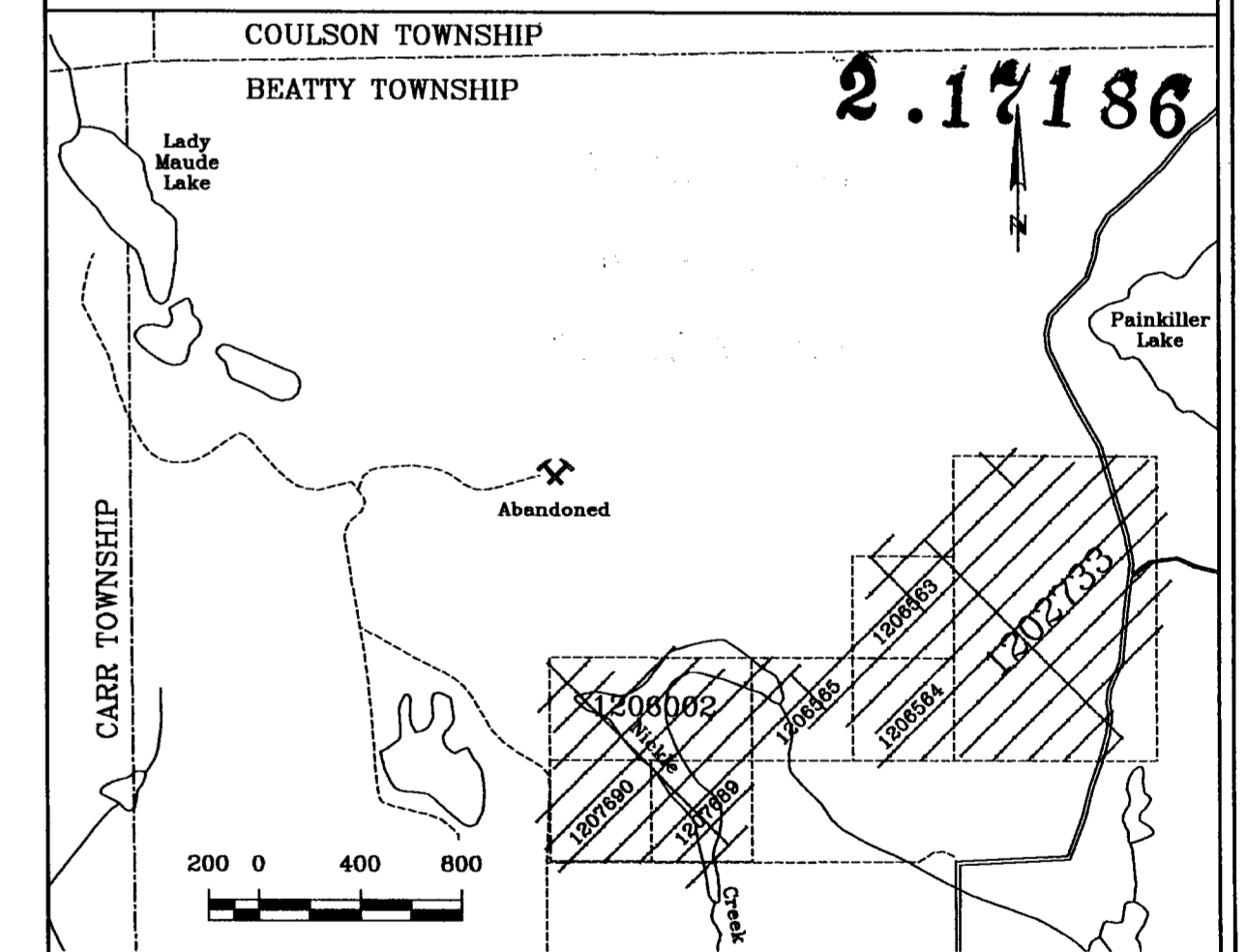
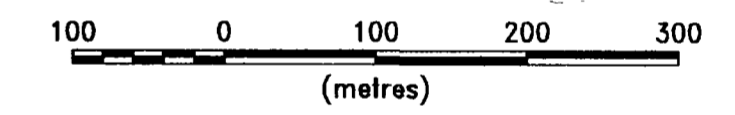


250

LEGEND

- ELECTROMAGNETIC PROFILES**
- In-phase 1 cm. = 20 %
 - - - - - Out-of-phase 1 cm. = 20 %
- Readings: In-Phase 1+-1 Out-of-phase
% %
- Instrument: APEX, MAXMIN I

SCALE 1 : 5 000



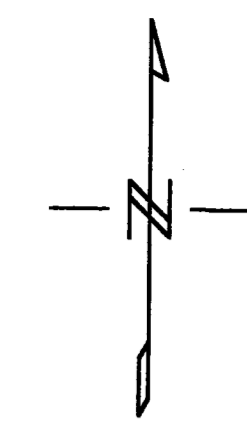
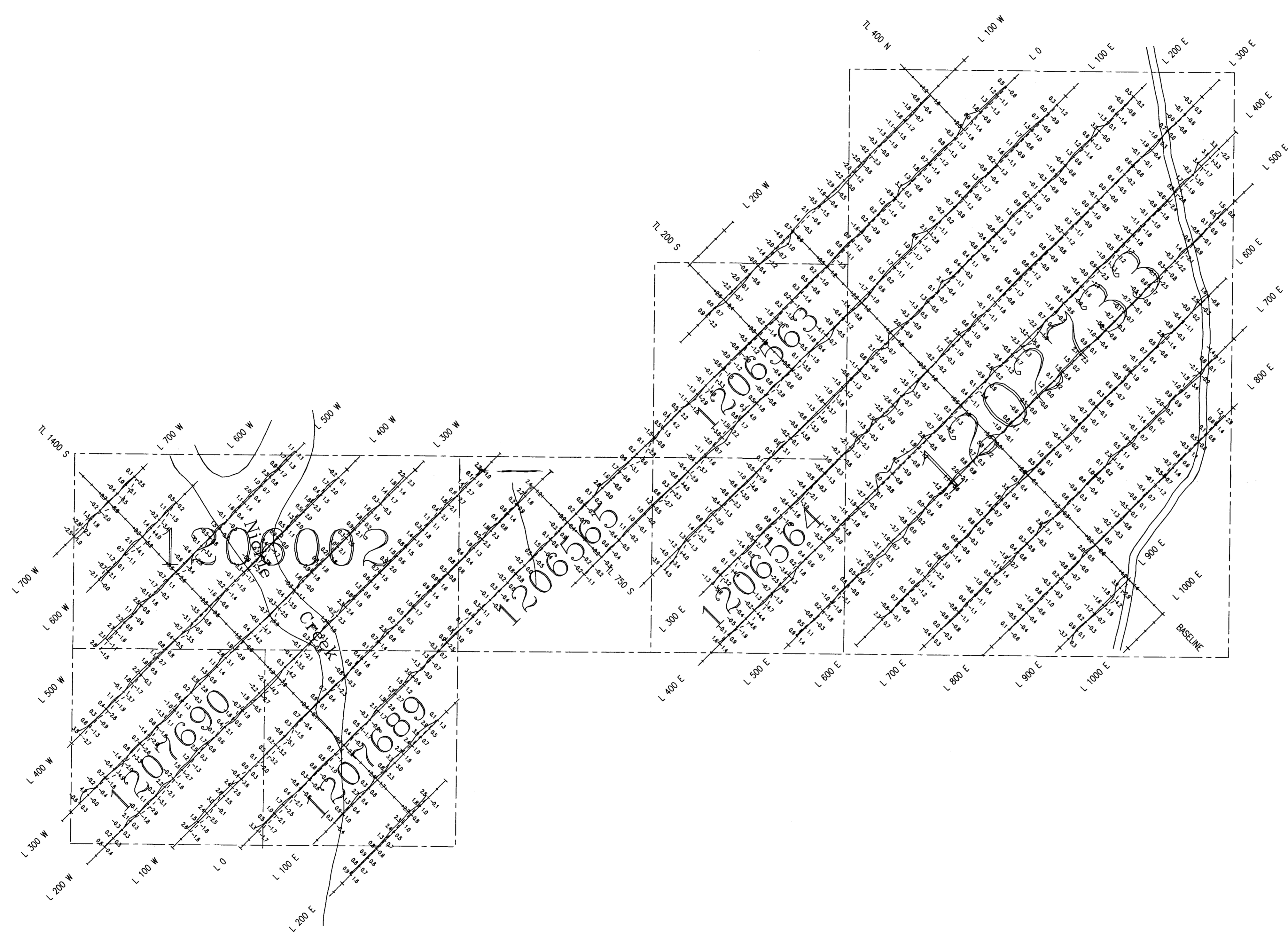
ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

ELECTROMAGNETIC HEM SURVEY
FREQUENCY = 1760 HZ CABLE 100 M

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-3.4

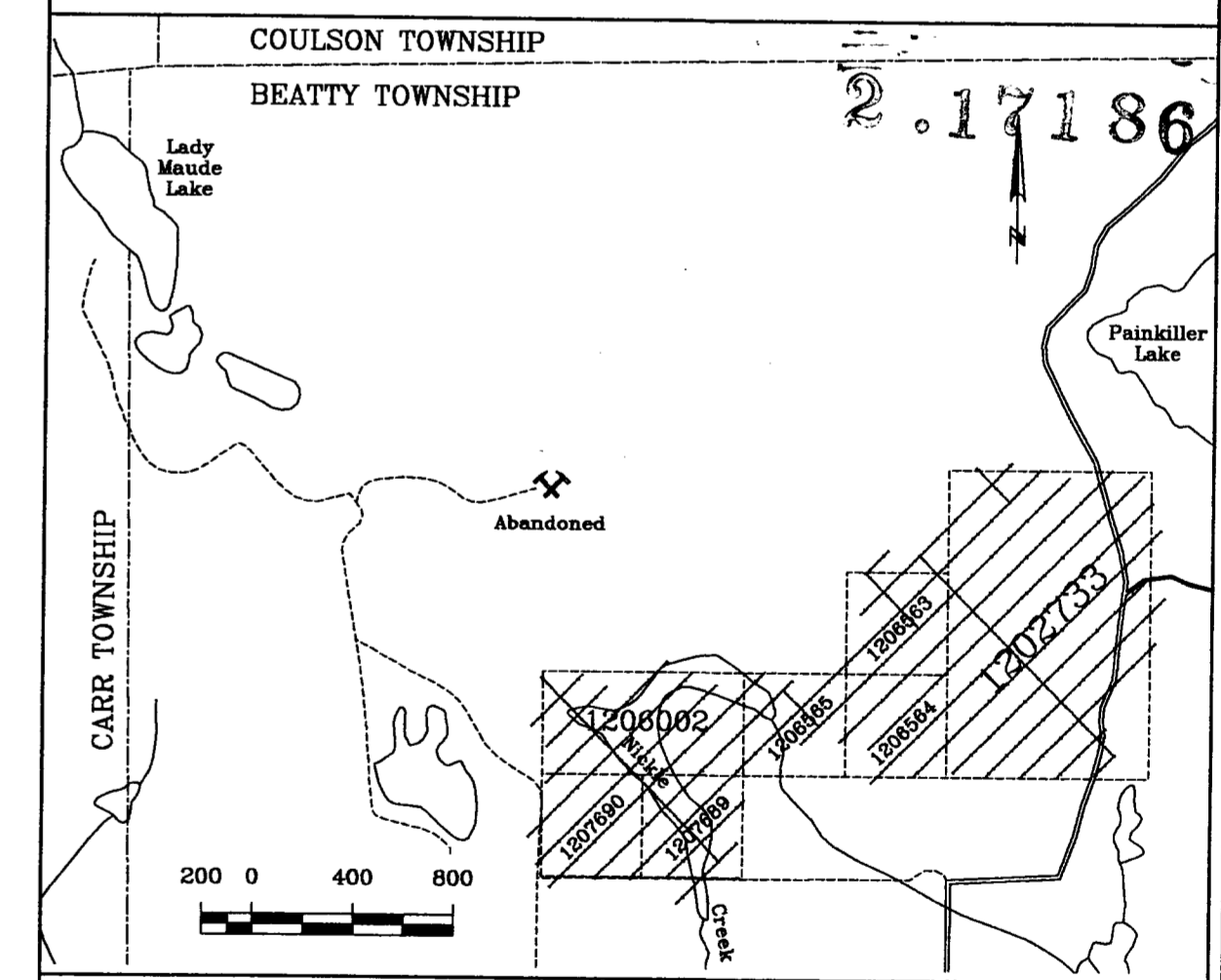
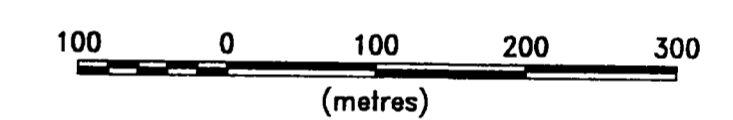


260

LEGEND

ELECTROMAGNETIC PROFILES
 - - - - - In-phase 1 cm. = 20 %
 - - - - - Out-of-phase 1 cm. = 20 %
 Readings: In-Phase 1 | -1 Out-of-phase
 % %
 Instrument: APEX, MAXMIN I

SCALE 1 : 5 000



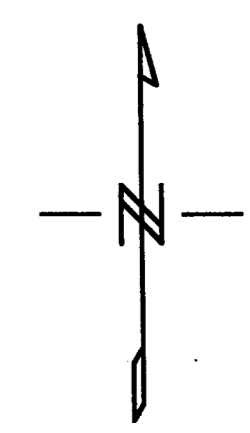
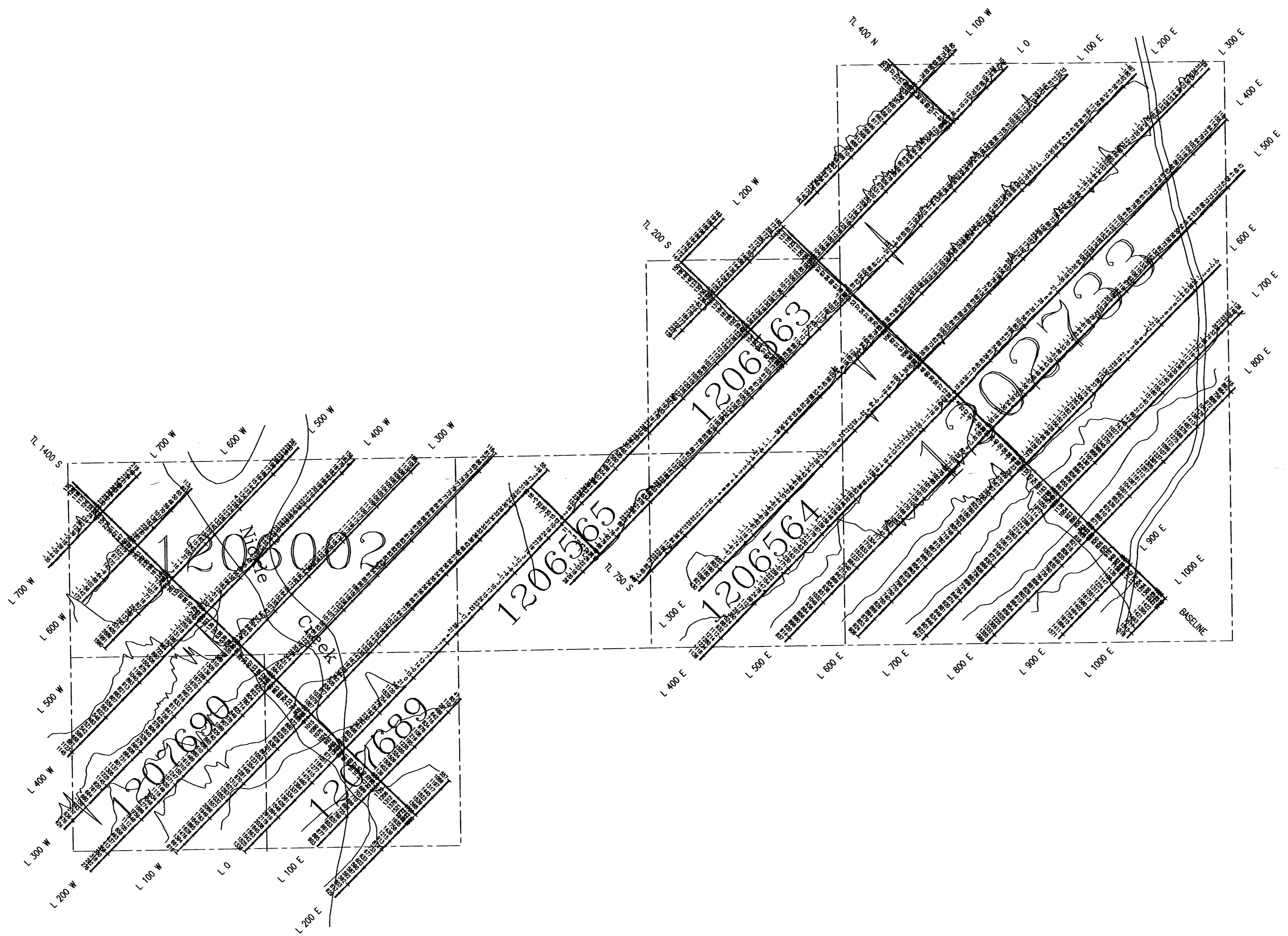
ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

ELECTROMAGNETIC HEM SURVEY
FREQUENCY = 440 HZ CABLE 100 M

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-3.2



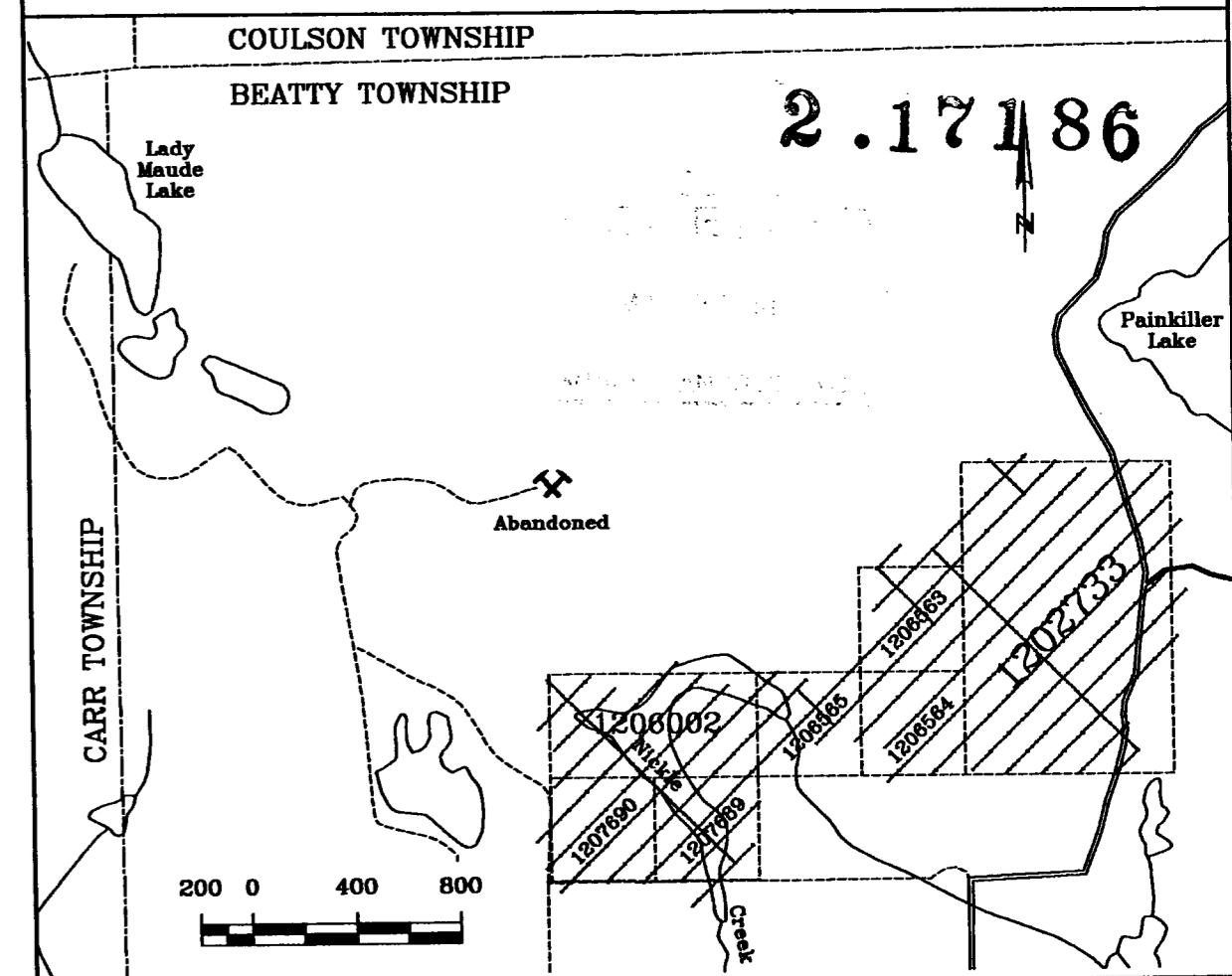
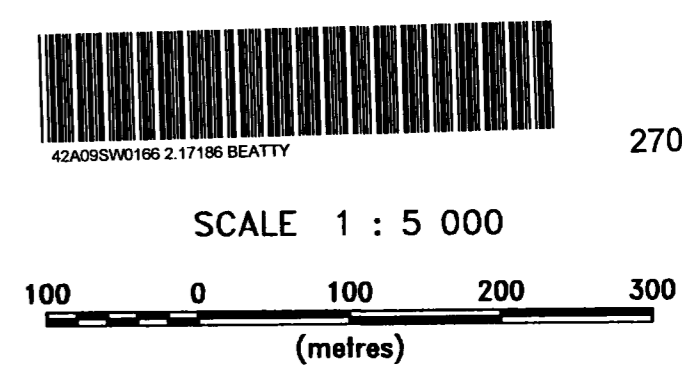
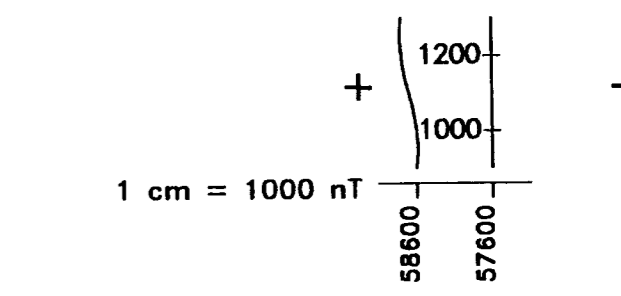
LEGEND

MAGNETIC PROFILES

Readings: Total field - 57600 nT

1 cm = 1000 nT

Instrument: GEM, GSM-19



ANGLAUMAQUE EXPLORATIONS INC.

TOTEM SCIENCES INC.

HEWITT PROSPECT

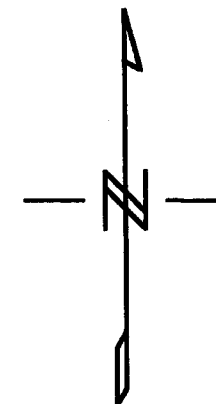
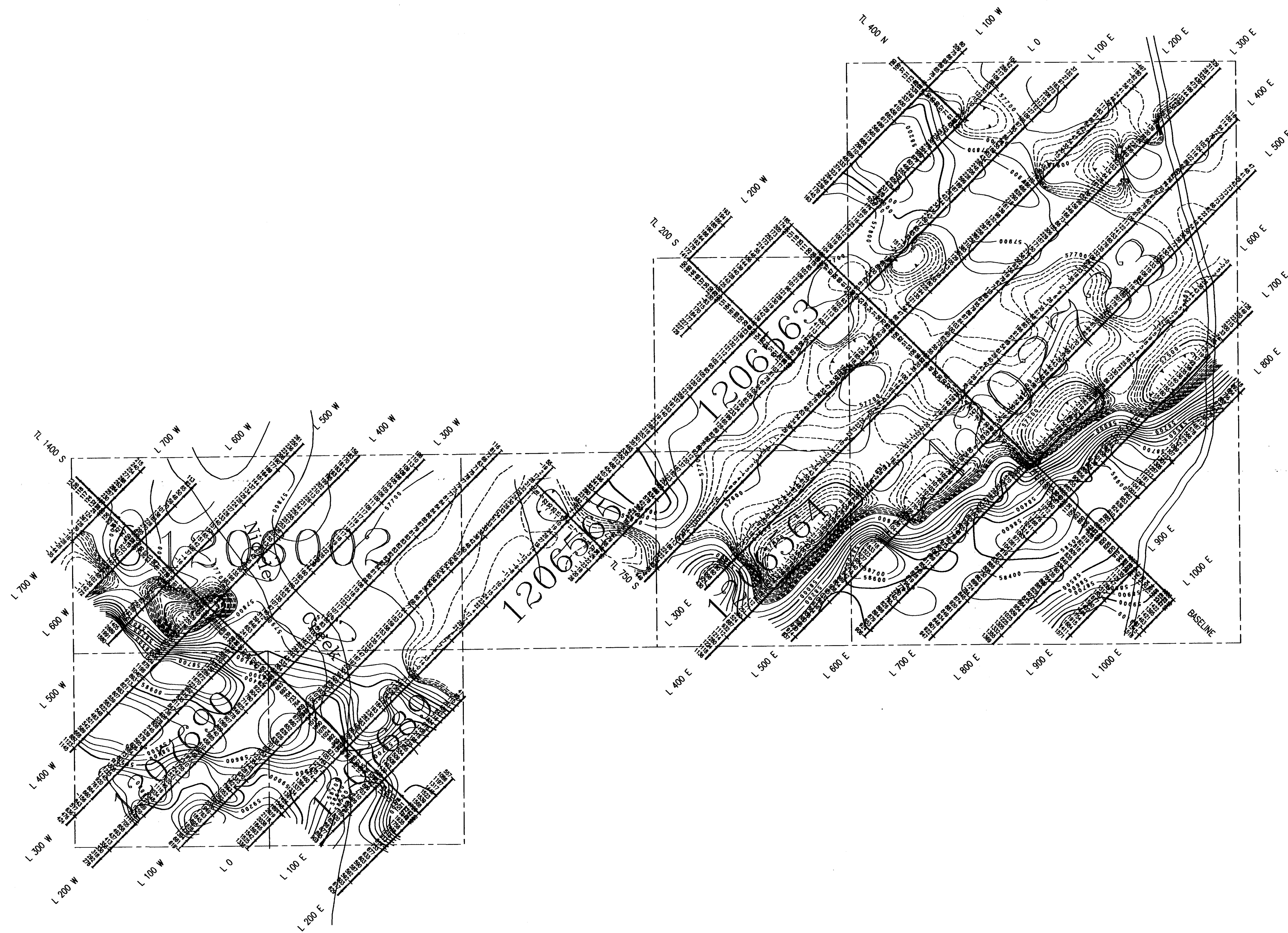
MAGNETIC SURVEY

TOTAL FIELD PROFILES

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-1.2

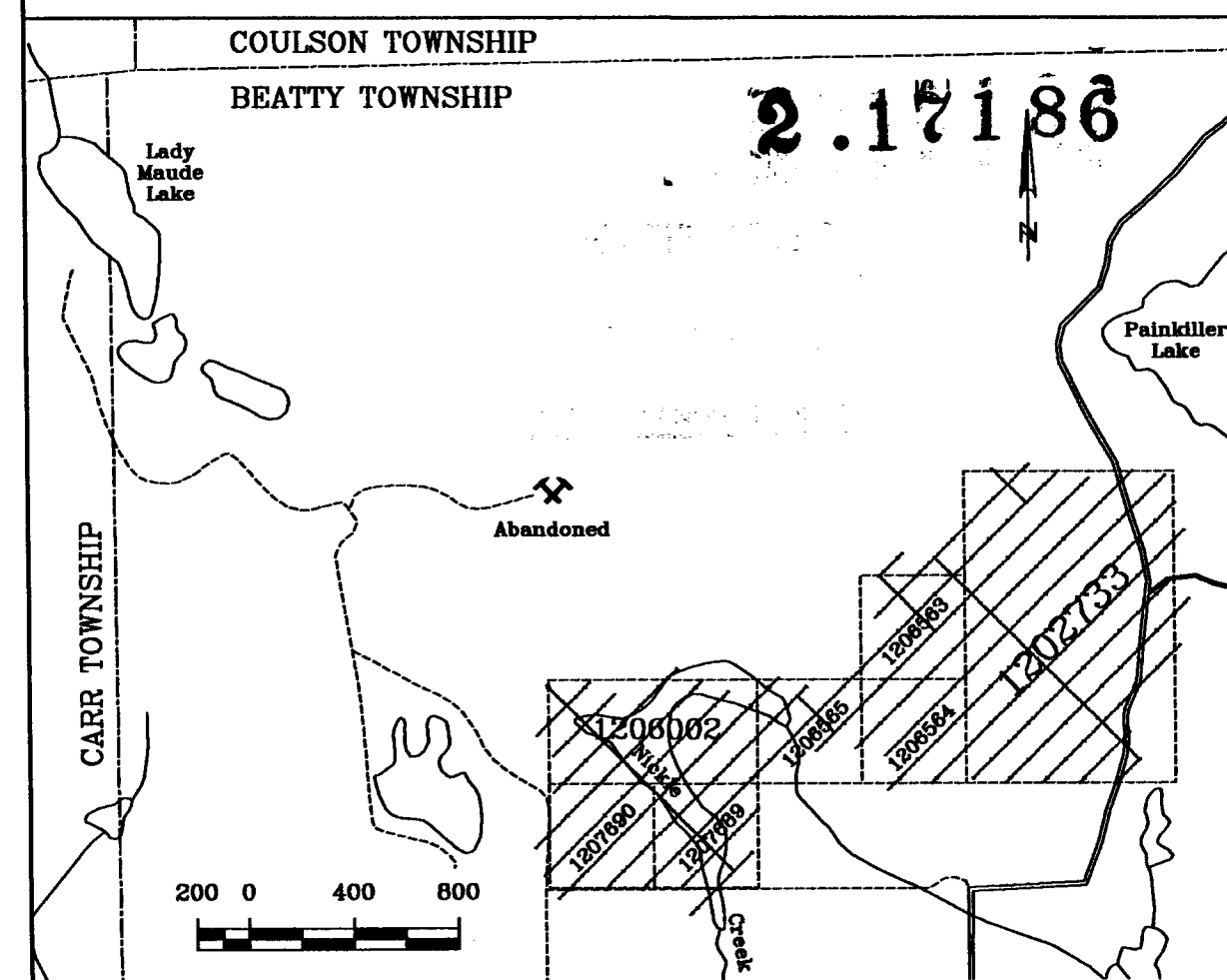
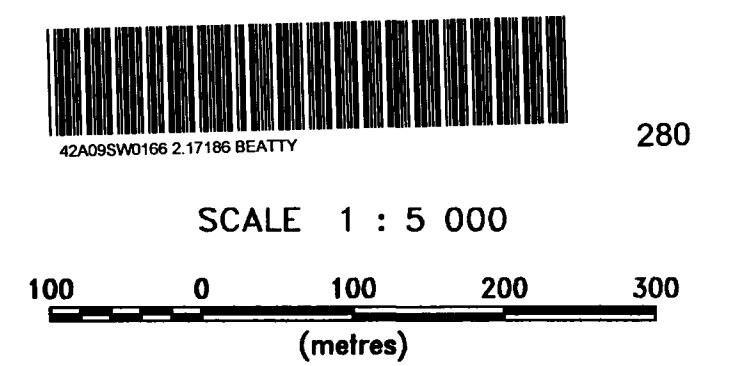


LEGEND

CONTOUR INTERVALS (nanoTesla)

--- 20
 --- 100
 --- 500

Readings: Total field - 57600 nT
 Instrument: GEM, GSM-19



ANGLAUMAQUE EXPLORATIONS INC.
TOTEM SCIENCES INC.
HEWITT PROSPECT

MAGNETIC SURVEY
TOTAL FIELD CONTOURS

VAL D'OR SAGAX INC.

Interpreted by: P. Boileau, Eng. Date 02/97

Scale 1 : 5 000 Drawing no. 96-N142-1.1