

**AntOro RESOURCES Inc.**

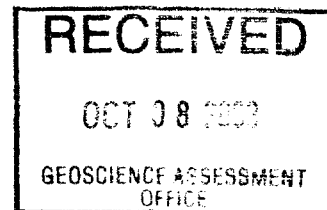
**REPORT**

**ON**

**MAGNETIC AND HORIZONTAL LOOP EM SURVEYS**

**WHITE LAKE PROJECT**

**BY**



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GEOPHYSICIST**



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**YOUCEF GHANEM, M.Sc.**  
**CONSULTANT GÉOPHYSICIEN**

**MARCH 2003**



## SUMMARY

Ground geophysical surveys, including Magnetic method and Horizontal Loop EM, were carried out between January 25<sup>th</sup> and March 19<sup>th</sup> 2003 by Geoplan, on behalf of AntOro Resources Inc., on its properties of White Lake, located in White Lake townships North and South, Ontario, at 40 km North-west the town of White River.

A total of 42.85 linear km of line cutting was made before proceeding to the survey. The lines were spaced at 100 m in the Western part and 50 m in the North-Eastern part of the surveyed area. The stations along the survey lines were spaced at 25 m.

The lines and stations localization were controlled by measurements of GPS at the beginning and end of each line.

The Total Magnetic Field measurements were made at each station with a GEM Systems GSM-19 Magnetometer ( resolution of 0.1 nT ) and covered all the 42.85 line km. Another magnetometer of the same type was used as a Base Station.

The Horizontal Loop EM measurements of In-Phase and Out-of-Phase components were made on 3 frequencies (444 hz, 888 hz and 1777 hz), with an APEX parametrics MAX-MIN II ( with a 50 m cable ) cover the North-Eastern part of the Grid, totalizing 16 km.

The analysis of the magnetic data with the Total Field intensity varying from 56700 nT à 67300 nT shows two predominant trends : NW-SE and SSW-NNE

The Horizontal Loop EM data indicates the presence of a shallow conductor striking NW-SE, with an estimated depth to its top of 5 to 20 m, and a conductance of 15 to 20 Siemens, and a subvertical dipping towards the East.

The EM conductor shows direct association with the magnetic signature.  
It is recommended to test by drilling the HEM conductor on its best responses, if not yet explained geologically.

## **RÉSUMÉ**

**Un levé géophysique comprenant les mesures du champ magnétique total et du champ électromagnétique ( boucle horizontale Max-min II ) a été réalisé entre le 25 janvier et le 19 février 2003 par Geoplan, pour le compte de Ressources AntOro Inc., sur ses propriétés situées en Ontario, dans les cantons Nord et Sud de White lake, à 40 km au Nord-Ouest de la ville de White River.**

**Une coupe de lignes totalisant 42.85 km a été effectuée avant de procéder aux mesures géophysiques. Les lignes sont espacées de 100 m dans la partie Ouest, et de 50 m dans la partie Nord-Est. Les stations piquetées le long des lignes sont espacées de 25 m.**

**Les mesures du champ magnétique total, effectuées à l'aide d'un magnétomètre GSM-19 de GEM Systems ainsi que d'une station de base du même type, couvrent la totalité des lignes coupées soient 42.85 km linéaires.**

**Les mesures électromagnétiques des composantes en phase et en quadrature sur 3 fréquences (444 hz, 888 hz and 1777 hz) totalisant 16 km linéaires, ont été effectuées seulement sur la partie Nord-Est des propriétés avec un MAX-MIN II d'APEX Parametrics ayant un câble de 50 m de longueur.**

**La localisation des stations a été contrôlée à l'aide d'un GPS au début et à la fin de chaque ligne du levé.**

**L'analyse des données électromagnétiques a permis de mettre en évidence dans la partie Nord-Est de la région étudiée, un conducteur de direction NO-SE et de faible profondeur de 5 à 20 m, et une conductance de 15 à 20 Siemens, et avec un pendage subvertical vers l'Est.**

**Les données magnétiques dont l'intensité varie de 56700 nT à 67300 nT montrent deux tendances prédominantes : NO-SE et SSO-NNE.**

**Le conducteur Électromagnétique montre une association directe avec la signature magnétique.**

**Pour comprendre la présence de ce conducteur, nous suggérons de faire un forage sur les meilleures réponses électromagnétiques, si le conducteur n'est pas déjà expliqué géologiquement.**

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### MAPS (in pocket)

<b>Magnetic and Horizontal LOOP EM surveys</b>	<b>SCALE</b>
Magnetic total Field Profiles	1 : 5 000
Magnetic Total Field Contours and color	1 : 5 000
HLEM FREQ 444HZ (I,Q) Profiles	1 : 5 000
HLEM FREQ 888HZ (I,Q) Profiles	1 : 5 000
HLEM FREQ 1777 HZ (I,Q) Profiles	1 : 5 000



## **1. INTRODUCTION**

**Ground geophysical surveys, including Magnetic method and Horizontal Loop EM, were carried out between January 25<sup>th</sup> and March 19<sup>th</sup> 2003 by Geoplan, on behalf of AntOro Resources Inc., on its properties of White Lake, located in White Lake townships North and South, Ontario, at 40 km North-west the town of White River.**

**The surveys were executed to map magnetic and electromagnetic signatures of the underlying geological formations and mineralized structures.**

**The Line cutting totalizing 42.85 km was done on the AntOro Resources Inc. White Lake properties between January 25<sup>th</sup> to March 19<sup>th</sup> 2003.**

**The Horizontal Loop EM (MAXMIN II) survey totalizing 16 km was executed on the North-Eastern part of the grid, between february 21<sup>st</sup> and 23<sup>rd</sup> with an APEX parametrics MAXMIN II, operating on 3 frequencies 444 hz, 888 hz and 1777 hz with a 50 m cable.**

**The magnetic survey measurements were taken on March 14,15,16,17 and 20<sup>th</sup> with a GEM Systems GSM-19 magnetometer. Another GSM-19 magnetometer was used as a base station for the correction of magnetic field diurnal variations.**

**This Technical report will show the results obtained from this survey, and their analysis.**

## **2. PROPERTY LOCATION AND ACCESS**

**The property is located on the Eastern shores of White Lake (see figure 1), in White Lake townships, Ontario, at 40 km North-West of the Town of White River, and 2 km North of White lake bridge.**

**The access to the property is easy and can be done by using public roads, such as Trans-Canada Highway ( No 117 ) up to White Lake bridge and then to the property ( see figure 1 ).**

**The figure 2 shows surveyed area and the claims registration number.**



FIGURE 1 : LOCATION MAP



2. 264 26

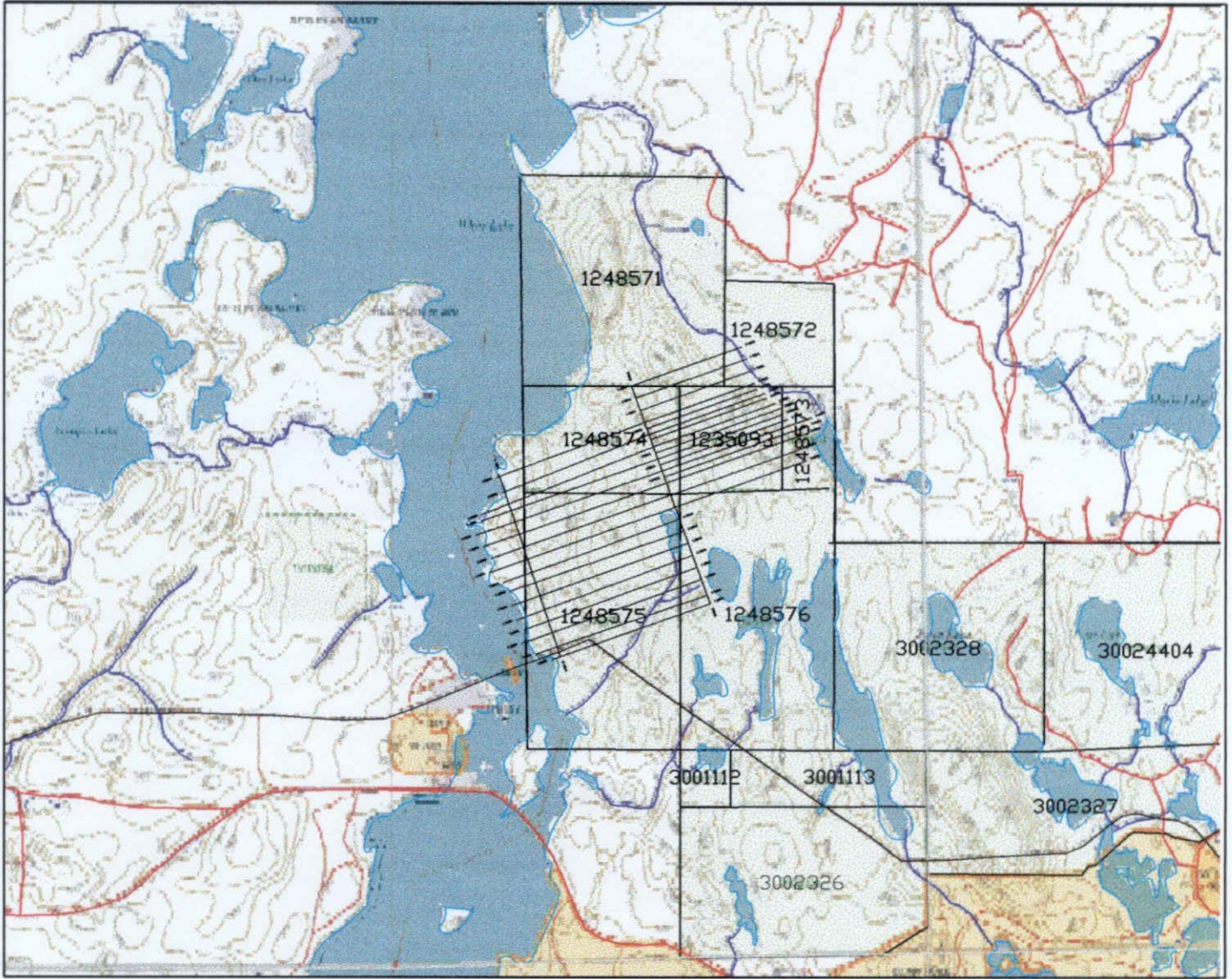


FIGURE 2 : CLAIMS MAP AND SURVEY GRID  
SCALE 1:50 000

### **3. WORK EXECUTED ON THE PROPERTY**

#### **3.1 LINE CUTTING**

**A total of 42.85 km of line cutting was done between January 25<sup>th</sup> and March 19<sup>th</sup>. The line were cut with a separation of 100 m in the Eastern part of the grid and 50 m in the North-Eastern part, and stations at 25 m spacing.**

#### **3.2 HORIZONTAL LOOP EM**

**The MAXMIN survey covers the North-Eastern part of the surveyed area, covering 16 line km. The survey was done between February 21<sup>st</sup> to 23<sup>rd</sup>.**

#### **3.3 MAGNETIC SURVEY**

**The magnetic survey totalizing 42.85 line km was executed between March 16<sup>th</sup> to 17<sup>th</sup> and so on March 20<sup>th</sup>.**

### **4. SURVEY METHODS and INSTRUMENTS**

#### **4.1 HORIZONTAL LOOP EM SURVEY**

**An APEX Parametrics MAXMIN II with a 50 m cable was used to carry out the survey. The resolution of the instrument is 1% of the Primary field.**

**The electromagnetic components In-Phase and Quadrature were measured on three (3) frequencies 444 hz, 888 hz and 1777hz. The measurements were taken by two technicians ( Dominique Béland and Gabriel Heneault) standing at picket station, at a distance of 50m ( cable length ).**

#### **4.2 MAGNETIC SURVEY**

**A GEM Systems GSM-19 portable magnetometer with a 0.01 nT resolution was used during this survey. The measurements were made at each station, every 25 m along the survey line.**

**A second magnetometer of the same type was used as a base station which was established near the camp, between lines 2600 S and 2700S on the western part of the survey grid.**

## 5. RESULTS AND INTERPRETATION

The collected magnetic and EM data were processed and corrected. the results are plotted as profiles, contours and color maps.

The analysis of the magnetic data with the Total Magnetic Field intensity varying from 56 700 nT to 67 300 nT with an average value of 58 000 nT, shows two predominant trends:

- NW-SE in the Central and in the North-Eastern parts of the survey
- SSW-NNE in the Western part.

The NW-SE structure in the North-East part shows a magnetic field intensity variation from 400 nT to 2000 nT above the average.

The Horizontal Loop EM data indicates the presence of a shallow conductor striking NW-SE, with an estimated depth to its top of 5 to 20 m, and a conductance of 15 to 20 Siemens, and a subvertical dip towards the East.

The EM conductor shows a direct magnetic association of 400 nT to 2000 nT.

The EM conductor properties are estimated as follow:

<u>Line No</u>	<u>conductance(Siemens)</u>	<u>depth (M)</u>
Line 1900 S	16	10
Line 2000 S	20	10
Line 2100 S	16	15
Line 2140 S	16	10
Line 2200 S	15	15

The best EM responses are located on survey lines 2000 S and 2100 s. This conductor is shown in red on all EM Profile maps.

## 6. CONCLUSION AND RECOMMENDATIONS

The magnetic and Horizontal Loop EM (MAXMIN II) surveys carried out by AntOro Resources Inc. on its White Lake properties, have allowed to detect within a moderate to locally strong magnetic relief, a moderate HEM conductor with a direct magnetic association.

It is recommended to test by drilling the HEM conductor on its best responses, if not yet explained geologically,

## 7. QUALIFICATION CERTIFICATE

I, **Youcef GHANEM** of the town of Val-d'Or, Abitibi, Québec, do certify that :

1) I am a graduate of Moscow geological Research Institute (MGRI) Russia (1976 Engineer Geophysicist, M.Sc.) and from Ecole Polytechnique of Montréal, Geophysical Laboratory (M.Sc.A 1988) in Geophysics

2) I have practiced my profession continuously for 27 years since my graduation

3) I am a member of l'Ordre des Géologues du Québec ( 431 )

4) I have no beneficial interest in the property discussed in this report nor do I expect to receive any in the future.



A handwritten signature in black ink, appearing to read "J. Ghanem".

**Youcef Ghanem, M.Sc.**  
Consulting geophysicist



Date: 2003-DEC-19

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

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400, RUE ST.-JACQUES O.  
MONTREAL, QUEBEC  
H2Y 1S1 CANADA

Tel: (888) 415-9845  
Fax:(877) 670-1555

**Submission Number:** 2.26426  
**Transaction Number(s):** W0340.01584

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

The 45 days outlined in the Notice dated November 3, 2003 have passed. Assessment work credit has been approved as outlined on the attached Work Report Summary.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by phone at (705) 670-5856.

Yours Sincerely,



Ron C. Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist  
Antoro Resources Inc.  
(Claim Holder)

Assessment File Library  
Antoro Resources Inc.  
(Assessment Office)

David Hughes Albert  
(Agent)

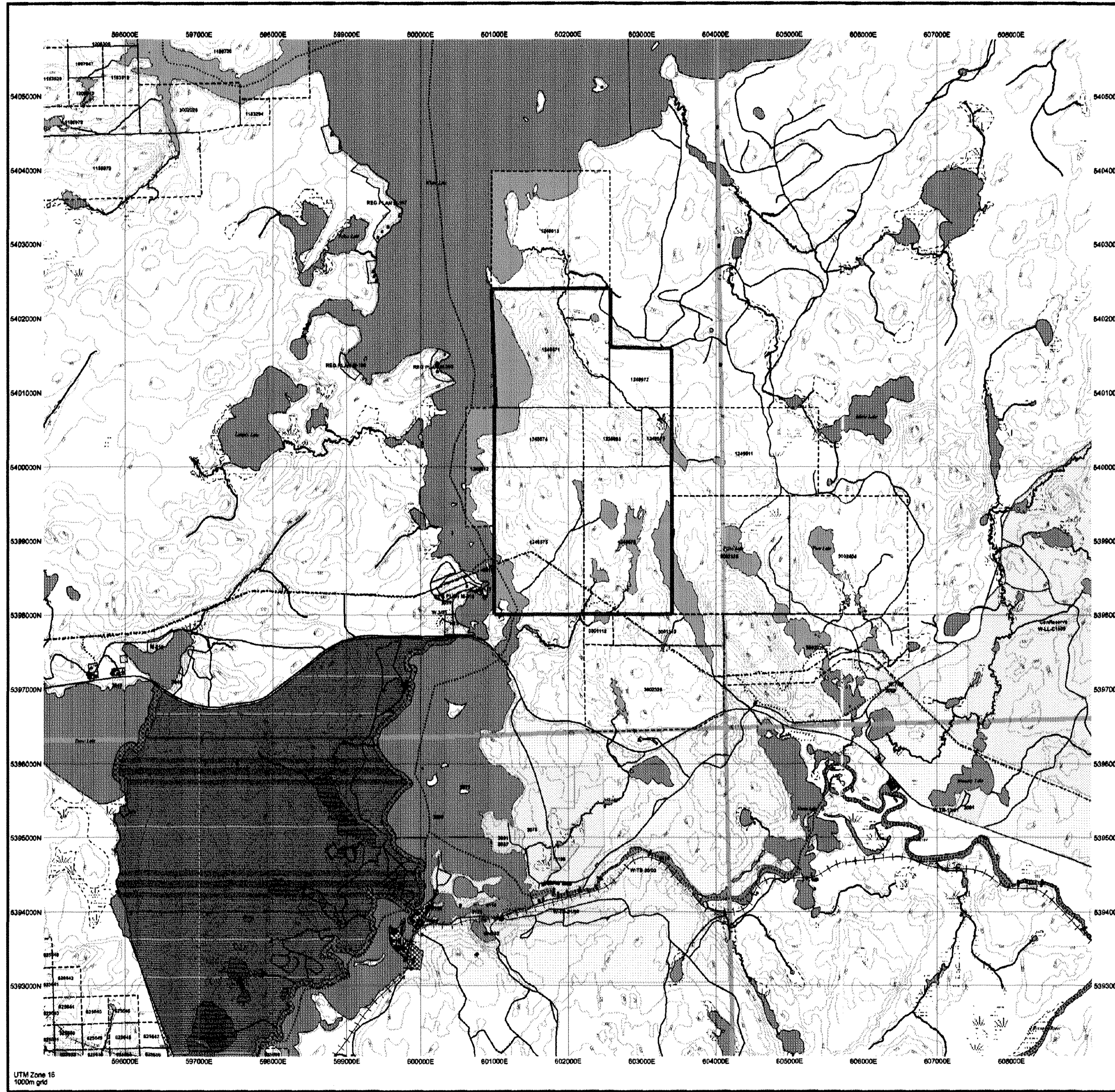


Date / Time of Issue: Fri Dec 19 12:55:32 EST 2003

TOWNSHIP / AREA PLAN WHITE LAKE-SOUTH AREA G-0623

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Thunder Bay Land Titles/Registry Division THUNDER BAY Ministry of Natural Resources District WAWA



**TOPOGRAPHIC**

- Administrative Boundaries
- Township
- Cadastral Lot
- Provincial Park
- Soils Reserve
- Cut-Off Pike
- Canal
- Mine Shaft
- Mine Headframe
- Railway
- Road
- Trip
- Natural Gas Pipeline
- UTM Grid
- Tower

**Land Tenure**

**Freehold Patent**

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

**Leasehold Patent**

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

**License of Occupancy**

- User Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

**Other**

- Land Use Permit
- Order In Council (not open for bidding)
- Water Power Lease Agreement
- Mining Claim
- Paid Only Mining Claims

**LAND TENURE WITHDRAWALS**

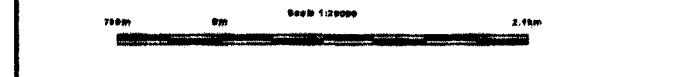
1234 Areas Withdrawn From Disposition

Mining Act Withdrawal Types

- W 10 Surface And Mining Rights Withdrawal
- W 12 Surface Rights Only Withdrawal
- W 13 Mining Rights Only Withdrawal
- W 14 Order In Council Withdrawal Types
- W 15 Surface Rights Only Withdrawal
- W 16 Mining Rights Only Withdrawal

**IMPORTANT NOTICES**

No



LAND TENURE WITHDRAWAL DESCRIPTIONS

Headframe	Type	Date	Description
1990	W 10	Jan 1, 2001	THEREA LAC SUBJECT TO FLOODING TO ELEVATION 33.5 METERS
2198	W 10	Jan 1, 2001	LANDS BELONGING TO THEREA LAC SUBJECT TO FLOODING AND OTHER RIGHTS
2938	W 10	Jan 1, 2001	FLOODING RIGHTS ON WHITE LAKE AND RAUVINE LAKE TO CONTOUR 108.0 FT +L.P.
2970	W 10	Jan 1, 2001	CHERRY HILLS S.D.S. IN A.P. 111501 V. 1
3017	W 10	Jan 1, 2001	WITHDRAWN FROM DISPOSITION APRIL 1, 1991. P. 18866 P-31-287
3048	W 10	Jan 1, 2001	P-31-287
3089	W 10	Jan 1, 2001	P-31-287
3090	W 10	Jan 1, 2001	WITHDRAWN FROM DISPOSITION APRIL 1, 1991. P. 18866 P-31-287
3091	W 10	Jan 1, 2001	G.C. RESERVE
3092	W 10	Jan 1, 2001	FLOODING RIGHTS ON WHITE RIVER AND WHITE LAKE TO CONTOUR ELEVATION
3093	W 10	July 26, 1991	APPLICATION FOR SURFACE RIGHTS TIA 1887-30-1901
3094	W 10	Jan 1, 2001	FLOODING RIGHTS ON WHITE RIVER AND WHITE LAKE TO CONTOUR ELEVATION
3095	W 10	Jan 1, 2001	CADASTRE AND MINING RIGHTS WITHDRAWAL FROM STAKING. SEC. 28 MINING ACT R.S.O. 1990
3107	W 10	Jan 1, 2001	M.T.G. PARK SITE P-31-334
3108	W 10	Jan 1, 2001	CADASTRE RESERVE SURFACE RIGHTS ONLY. FILE # 8850
3110	W 10	Jan 1, 2001	ALL MINING CLAIMS ALONG WHITE RIVER AND CONNECTING LAKES ARE SUBJECT
3112	W 10	Jan 1, 2001	M.T.G. PARK SITE P-31-334
3118	W 10	Jan 1, 2001	SURFACE RIGHTS ONLY WITHDRAWN FROM STAKING. SEC. 28 MINING ACT R.S.O.
3123	W 10	Jan 1, 2001	SEC. 28 WITHDRAWAL FROM STAKING. SEC. 28 MINING ACT R.S.O.
3158	W 10	Jan 1, 2001	SURFACE RIGHTS ONLY WITHDRAWN FROM STAKING. SEC. 28 MINING ACT R.S.O.
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2.26426  
MAG  
EM

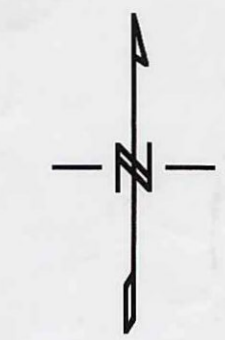
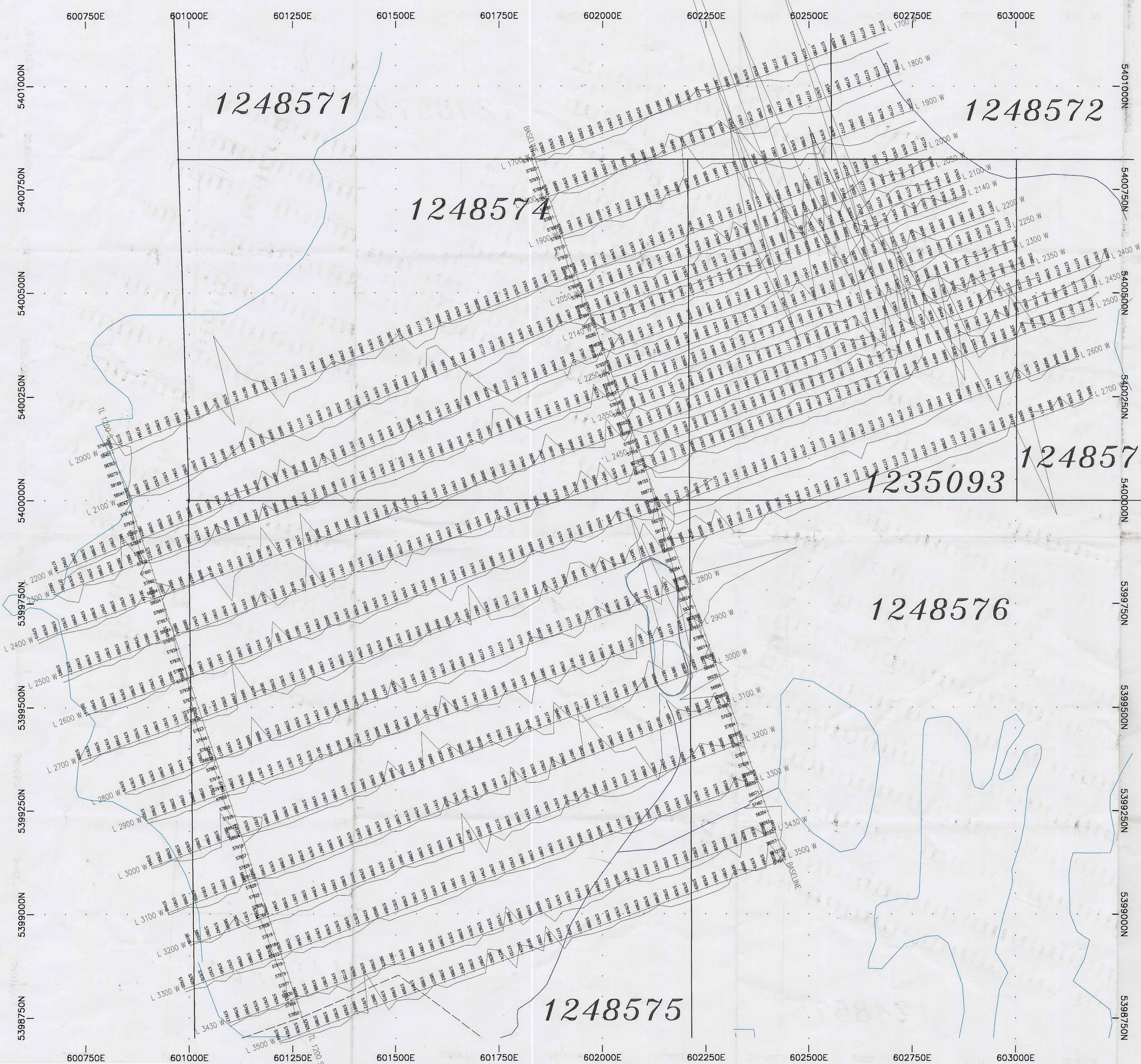


**General Information and Limitations**

Contact Information: Provincial Mining Records Office, 19th Street, Toronto, Ontario

This map may not show unprocessed data and therefore is not suitable for legal purposes. Users assume liability for any use of this map. The map is provided for informational purposes only. It is not to be used for any other purpose. The map is provided for informational purposes only. It is not to be used for any other purpose.



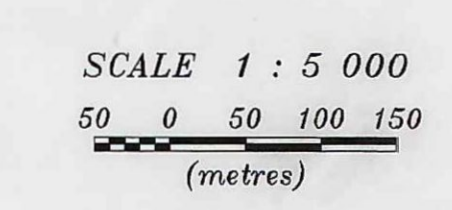


**MAGNETIC SURVEY**  
**HORIZONTAL SCALE : 1 CM = 50 METERS**  
**VERTICAL SCALE : 500 nT / CM**  
 ——— MAGNETIC FIELD  
 READINGS = TOTAL FIELD - 58000 nT  
 Instruments: CEM SYSTEMS, GSM-19

COORDINATES: NAD83 ZONE16

2. 264 26

——— Claims limits  
 - - - - - 1235093 Claims identification



**AntOro Resources Inc.**  
**WHITE LAKE AREA**

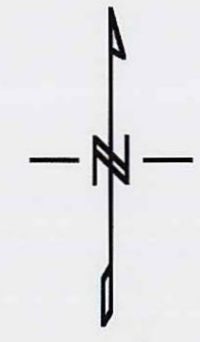
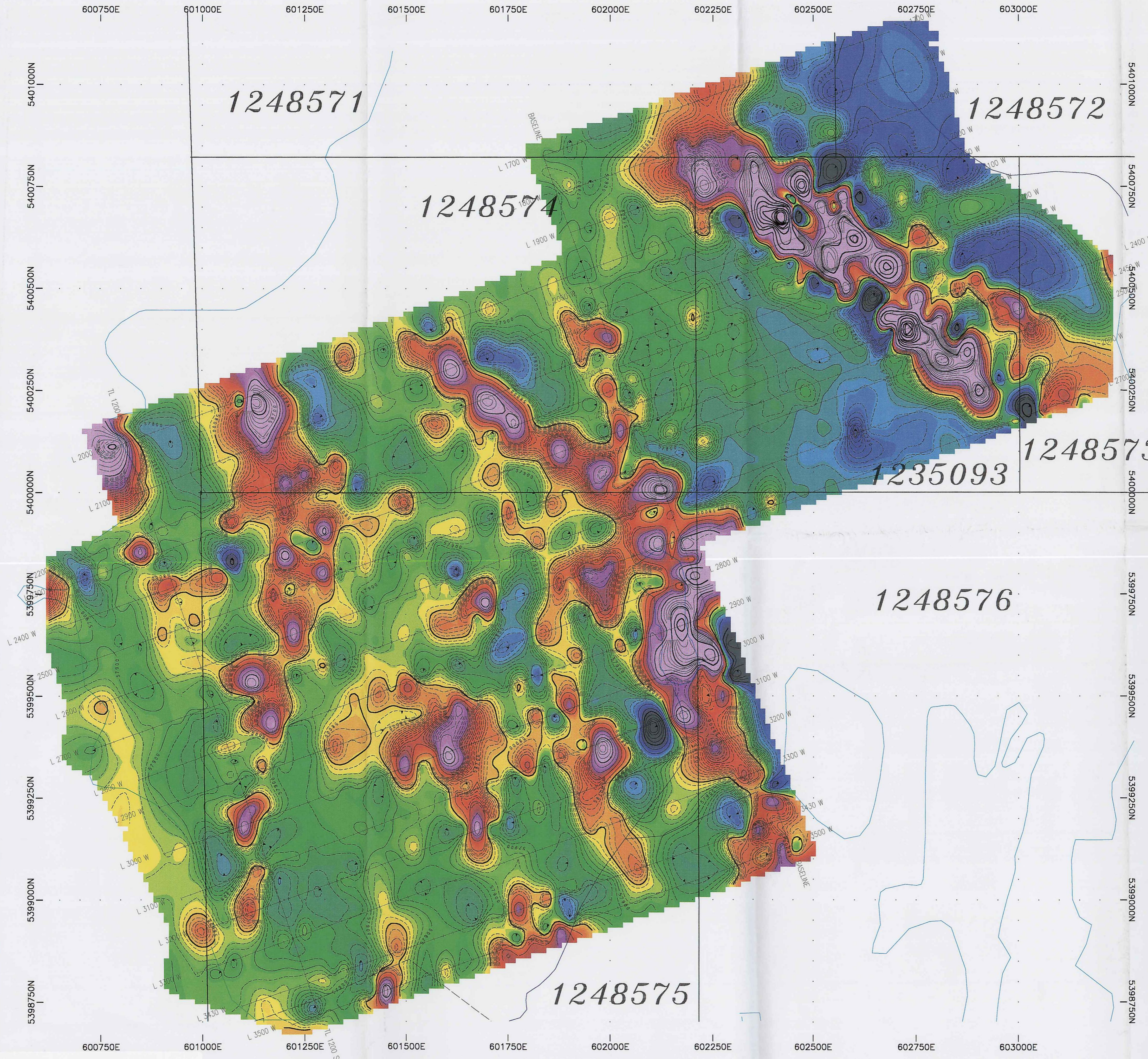
**MAGNETIC SURVEY**  
**TOTAL MAGNETIC FIELD PROFILES**

surveyed by: *Dominique Belland ( GEOPLAN )*

Processed by: *Youcef Ghanem (YCHAN GEOPHYSIQUE)*

Date: 03/2003 Draw no. 2003-ANTORO-MAGPR

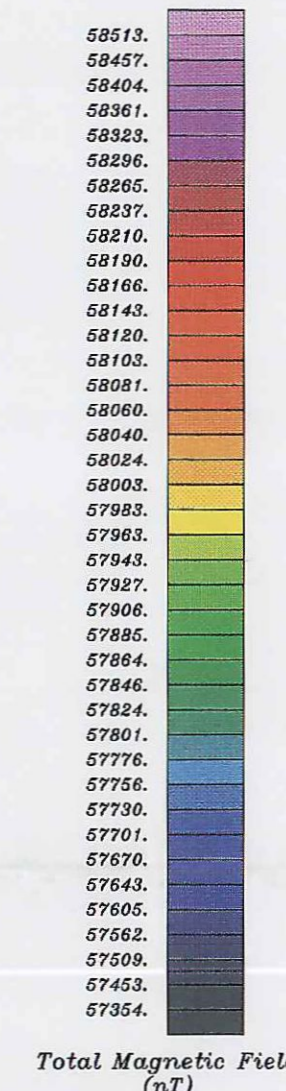




**CONTOUR INTERVAL (nanoTesla)**

- 20
- 100
- 500
- 1000

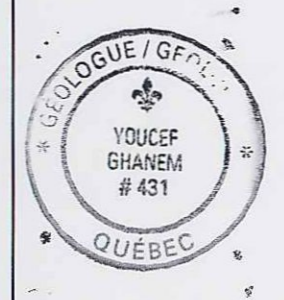
Instruments: GEM SYSTEMS, GSM-19



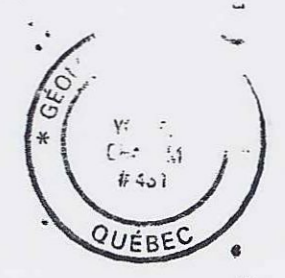
COORDINATES: NAD83 ZONE16

2.26426

Claims limits  
1235093 Claims identification



SCALE 1 : 5 000  
50 0 50 100 150  
(metres)



**AntOro Resources Inc.**  
**WHITE LAKE AREA**

**MAGNETIC SURVEY**  
**TOTAL MAGNETIC FIELD COLOR CONTOUR MAP**

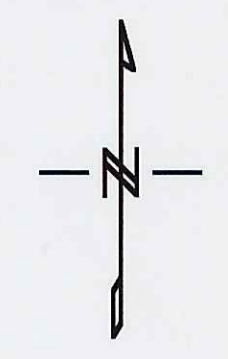
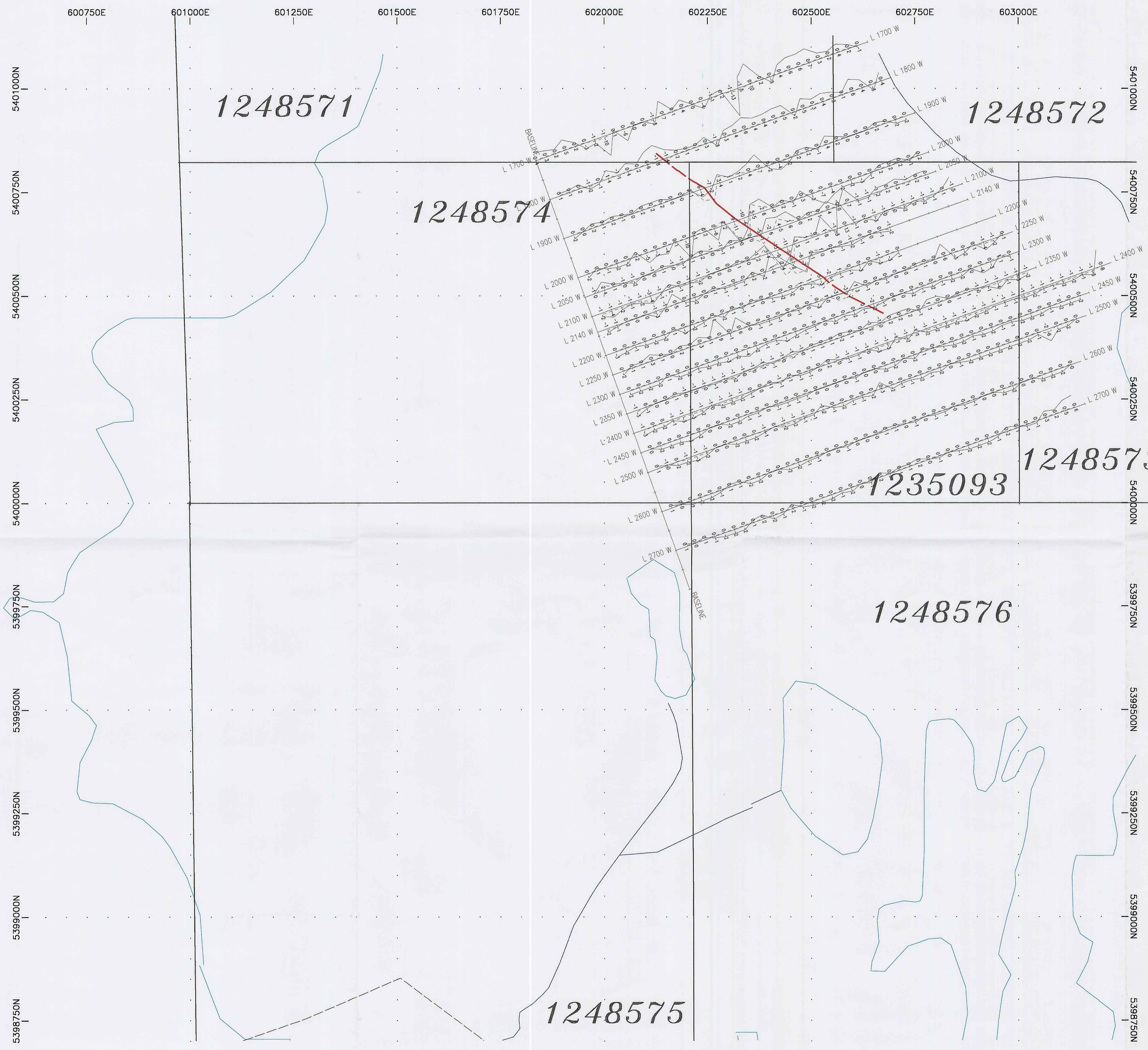
surveyed by: *Dominique Belland (GEOPLAN)*

Processed by: *Youcef Ghanem (YOGHAN GEOPHYSIQUE)*

Date: 03/2003 Draw no. 2003-ANTORO-COLCONMAC







**HORIZONTAL EM LOOP (50 METERS CABLE)**  
**HORIZONTAL SCALE : 1 CM = 50 METERS**  
**VERTICAL SCALE : 10 UNITS / CM**  
 — INPHASE  
 - - - OUT OF PHASE  
*Instruments: APEX PARAMETRICS MAXMIN II*

**EM CONDUCTOR**  
 Claims limits  
 1235093 Claims identification

2. 264 26

COORDINATES: NAD83 ZONE 16

SCALE 1 : 5 000  
 50 0 50 100 150  
 (metres)



**AntOro Resources Inc.**  
**WHITE LAKE AREA**

**HORIZONTAL EM LOOP (MAXMIN II) SURVEY**  
**INPHASE & QUADRATURE PROFILES : FREQ 444 HZ**

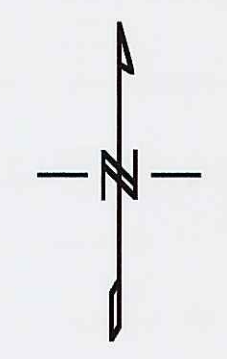
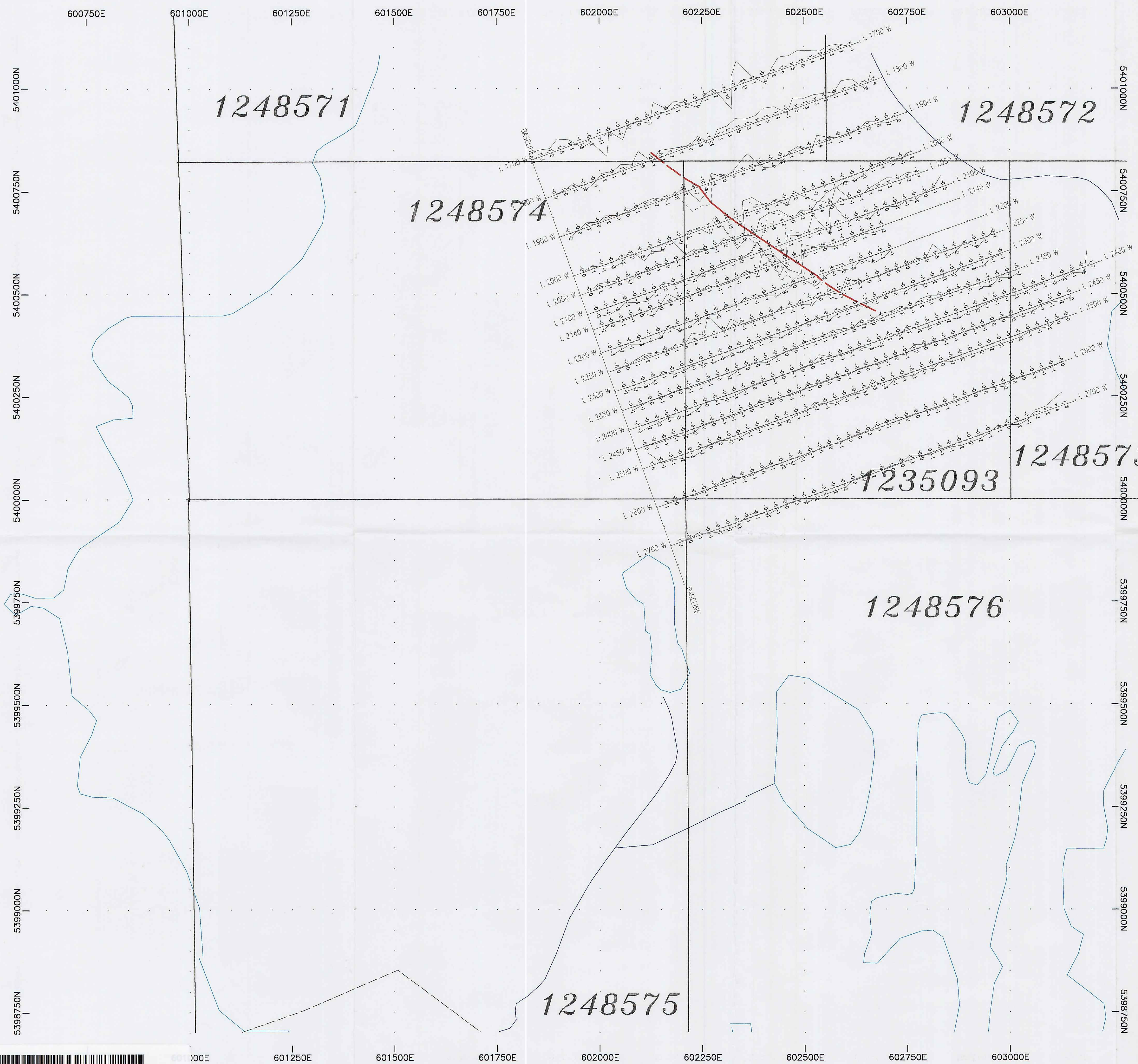
surveyed by: *Dominique Belland ( GEOPLAN )*

Processed by: *Youcef Ghanem (YOGHAN GEOPHYSIQUE)*

Date: 03/2003 Draw no. 2003-ANTORO-HEML444







**HORIZONTAL EM LOOP (50 METERS CABLE)**  
**HORIZONTAL SCALE : 1 CM = 50 METERS**  
**VERTICAL SCALE : 10 UNITS / CM**  
 — INPHASE  
 - - - OUT OF PHASE  
*Instruments: APEX PARAMETRICS MAXMIN II*

— EM CONDUCTOR  
 — Claims limits  
 1235093 Claims identification

2.26426

COORDINATES: NAD83 ZONE16

SCALE 1 : 5 000  
 50 0 50 100 150  
 (metres)



**AntOro Resources Inc.**  
**WHITE LAKE AREA**

**HORIZONTAL EM LOOP (MAXMIN II) SURVEY**  
**INPHASE & QUADRATURE PROFILES : FREQ 888 HZ**

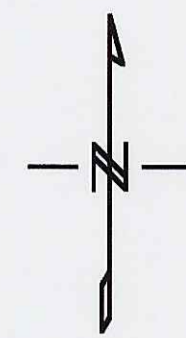
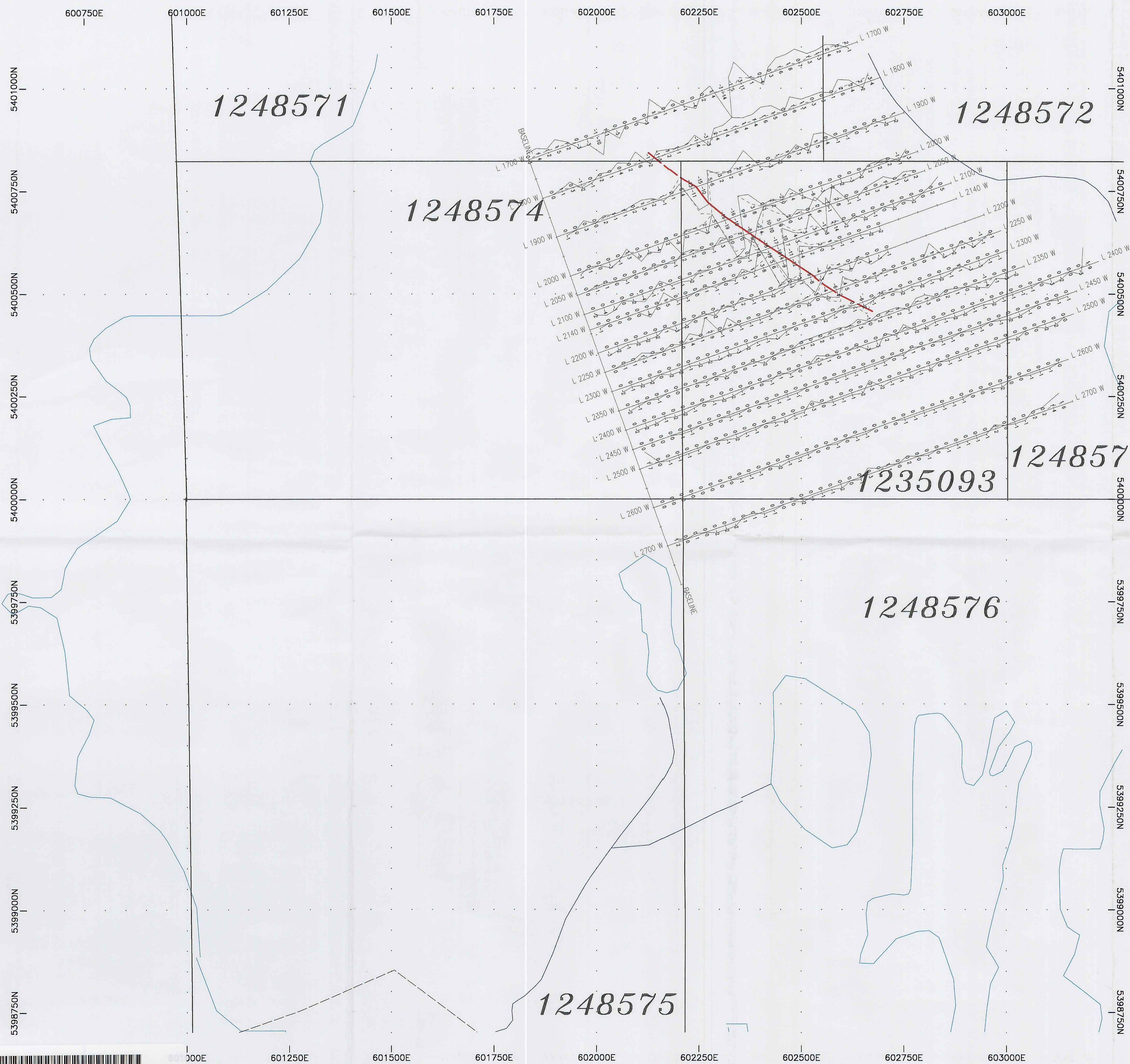
*surveyed by: Dominique Belland ( GEOPLAN )*

*Processed by: Youcef Ghanem (YOGHAN GEOPHYSIQUE)*

*Date: 03/2003 Draw no. 2003-ANTORRO-HEML888*







**HORIZONTAL EM LOOP (50 METERS CABLE)**  
**HORIZONTAL SCALE : 1 CM = 50 METERS**  
**VERTICAL SCALE : 10 UNITS / CM**  
 — INPHASE  
 - - - OUT OF PHASE  
*Instruments: APEX PARAMETRICS MAXMIN II*

— EM CONDUCTOR  
 — Claims limits  
 1235093 Claims identification

2.26426

COORDINATES: NAD83 ZONE16

SCALE 1 : 5 000  
 50 0 50 100 150  
 (metres)



**AntOro Resources Inc.**  
**WHITE LAKE AREA**

**HORIZONTAL EM LOOP (MAXMIN II) SURVEY**  
**INPHASE & QUADRATURE PROFILES : FREQ 1777 HZ**

*surveyed by: Dominique Belland ( GEOPLAN )*

*Processed by: Youcef Ghanem (YOGHAN GEOPHYSIQUE)*

*Date: 03/2003 Draw no. 2003-ANTORRO-HEML1777*

