

GOLDEN CHALICE RESOURCES INC.

GEOPHYSICAL SURVEYS

LANGMUIR TP. PROJECT

March 2005

2.32121



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**I - INTRODUCTION :**

At the request of GOLDEN CHALICE RESOURCES INC., geophysical surveys were carried out during the month of March 2005, by Exploration Services Reg., on part of the Company's Langmuir Tp. property, Timmins area, Ontario.

The magnetometer survey was carried out in an attempt to facilitate the geological interpretation of the local geology and also to establish the relationship, if any, between the magnetic anomalies and the observed conductors.

The horizontal loop electromagnetic survey was carried out in an attempt to evaluate the local INPUT anomalies.

The surveys were undertaken within the framework of an ongoing exploration program targeting ultramafic units for their NICKEL potential.

**II - PROPERTY :**

The Langmuir Tp. property consists of 9 claims totalling 89 claim units of 16 hectares each. The claim numbers are as follows :

<u>Claim no.</u>	<u>Units</u>
3017517	04
3017518	11
4203563	10
4203564	15
4203567	16
4203568	08
4203569	08

4203570	01
4203571	16

**III – LOCATION & ACCESSIBILITY :**

The Langmuir Tp. claim block is located in the southeastern quadrant of Langmuir Tp. at the southern end of Night Hawk Lake at an approximate distance of 25 Km southeast of the town of South Porcupine.

From South Porcupine, the property is accessible by driving south-eastwards along an access road which traverses the western area of Langmuir and Fallon townships – an approximate distance of 30 Km.

**IV – GEOPHYSICAL SURVEYS :**

The surveys were carried out along a previously cut grid whose 1,1 Km long base line trends east-west ; cross lines spaced at 100 m intervals extend on both sides of the base line for a distance of 400 m. Thus, the magnetometer survey covered 10,7 line kilometers and the electromagnetic survey, 9,6 line kilometers.

**A) Magnetometer Survey :**

**Instrumentation :**

A Terraplus GEM-19 magnetometer was used for the survey with accompanying base station for diurnal corrections – readings were taken at every 12,5 meter intervals.

**Data Presentation :**

The data were plotted on maps at the scale of 1 :5 000 ; the report

contains a coloured map of the total field and a map with readings and magnetic profiles.

**Interpretation :**

In general, the intensity of the magnetic readings increase from north to south and from west to east. Most of the readings over the surveyed area are in the range of 1 000 to 3 000 gammas indicating the presence of an ultramafic body. The 1000 gamma contour line defines a very irregular contact in the northern part of the grid between 200 and 300 meters north. The readings varying between 3000 gammas to 6 000 gammas are randomly distributed and do not convey the presence of structural or lithological bedding, however, there is a certain symmetry to the magnetic high profile along most of the length of the outlined conductor between lines 300 W and 400 E.

**B) Electromagnetic Survey :**

**Instrumentation :**

An Apex Parametrics Maxmin II horizontal loop unit has been used for the survey tuned to the 444 and 1777 frequencies. Readings were taken at every 25 meter intervals with a coil separation of 100 m.

**Data Presentation :**

The data of the « In Phase » and « Out of Phase » components were plotted on maps at the scale of 1 :5 000 – the report contains 1 map for each frequency.

**Interpretation :**

A good conductor has been outlined in the central part of the grid between lines 300 W and 400 E – the conductor appears to continue eastwards beyond the surveyed area. The optimum response has been observed on line 400 E – the conductor axis crosses this line at 75 m S and is coincident with a definite magnetic anomaly.

The E. M. anomaly may be caused by a sulfide body containing pyrrhotite.

**V – CONCLUSIONS & RECOMMENDATIONS :**

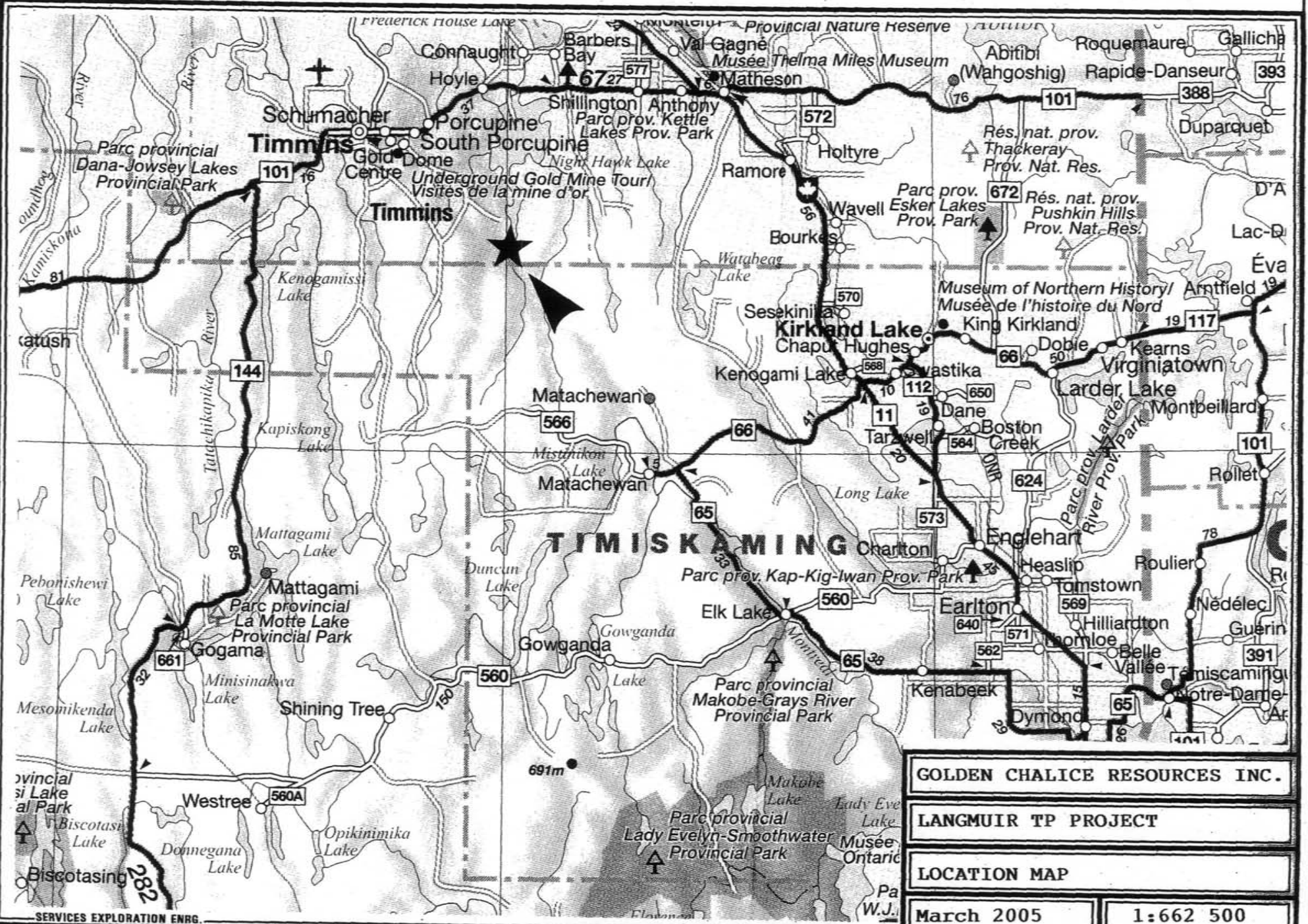
The magnetometer survey has indicated the presence of an ultramafic rock unit with its northern contact in the vicinity of 250 N.

The electromagnetic survey has outlined the presence of a good, 600 m long conductor with accompanying magnetic response.

The grid should be extended eastwards for another 600 m to determine the length of the outlined E. M. anomaly. Drilling could then proceed targeting the optimum response.

Respectfully submitted :

Edouard Chartré, B.A., B. Sc. :  March 29, 2005.



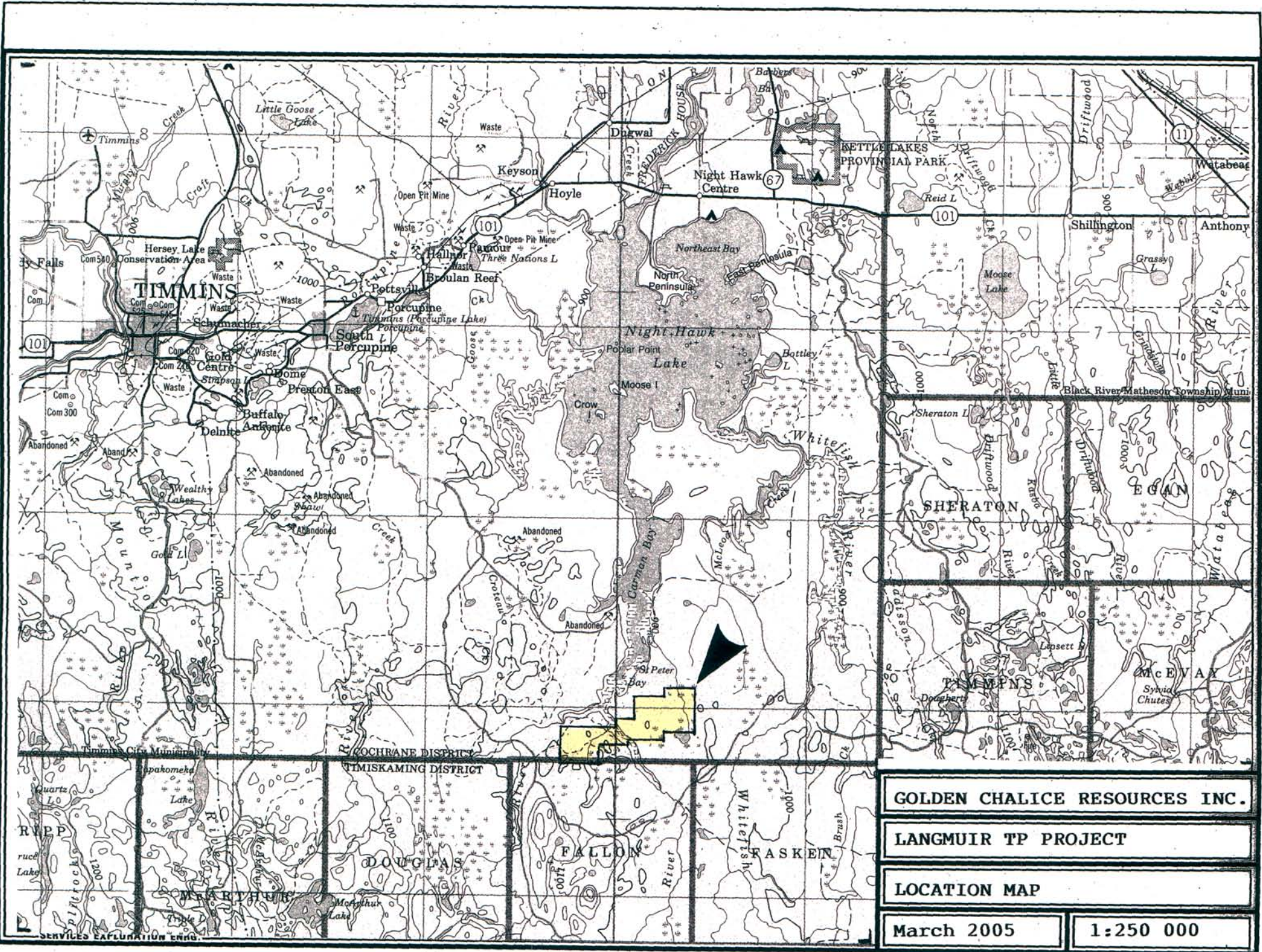
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**LOCATION MAP**

**March 2005**      **1:662 500**



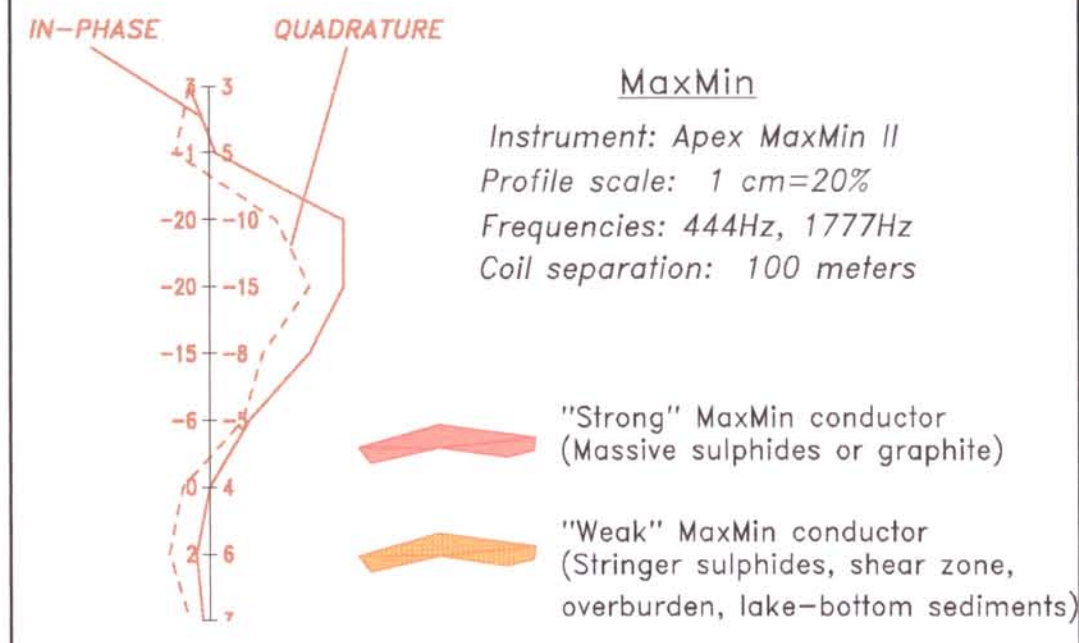








**MaxMin H.L.E.M. Legend**



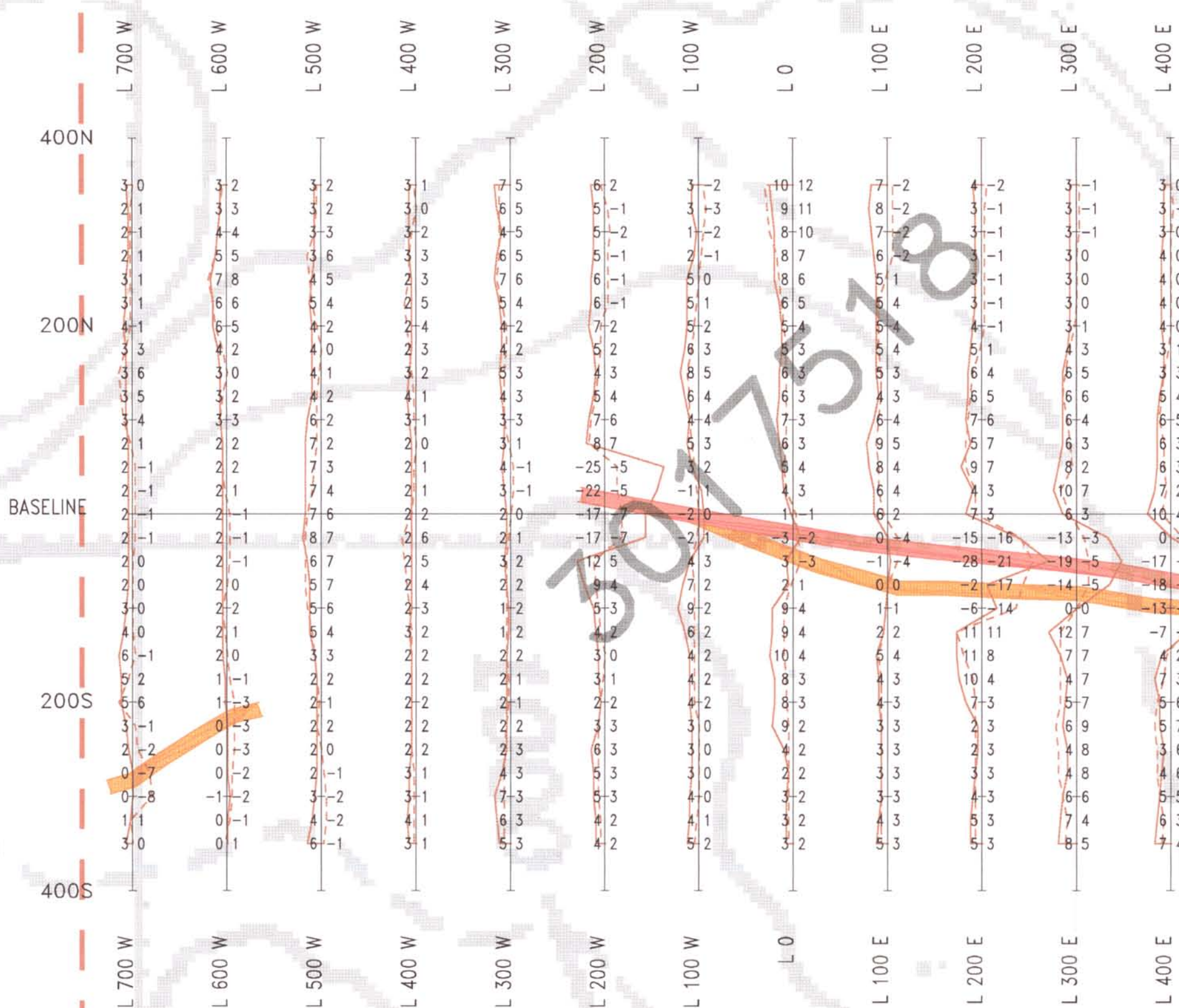
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 NTS 42A/7

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**LANGMUIR PROPERTY**

**Horizontal Loop E.M. survey**

Profiles of the In-Phase and Quadrature components

Profile scale: 1 cm=20% **Frequency : 1777 Hz** Coil separation: 100 meters

Data processing and interpretation by: Langmuir Township, Ontario

G. Lambert, P.Eng. Scale 1:5,000

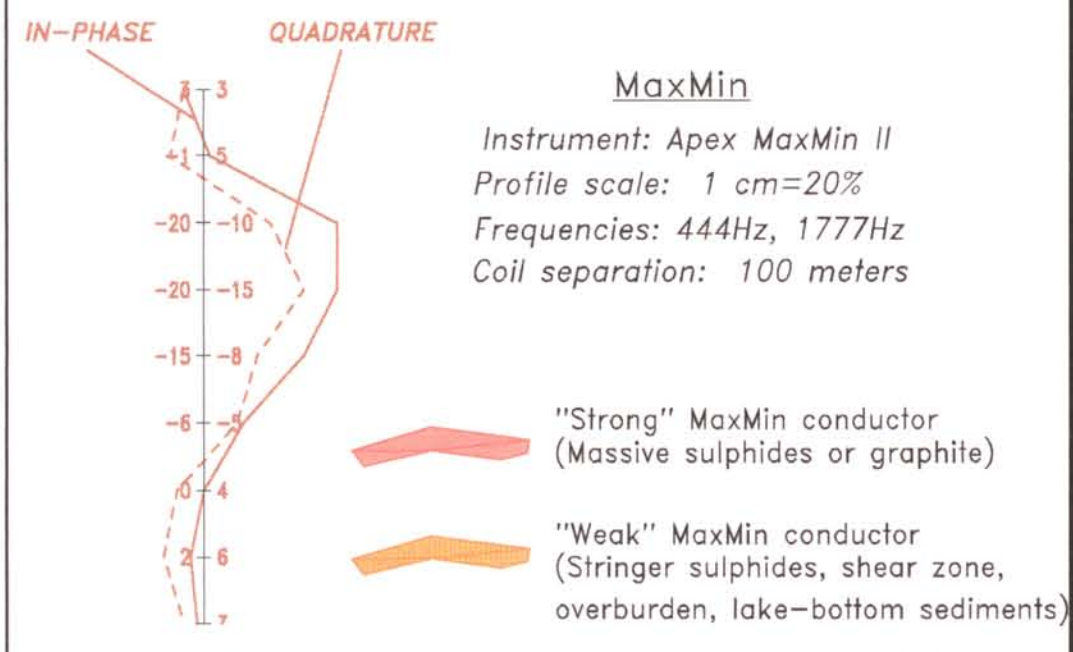
**LAMBERT GEOSCIENCES Ltd.** N.T.S. 42A/6, 42A/7

March 2005 Services Exploration, Rouyn-Noranda, Qub.

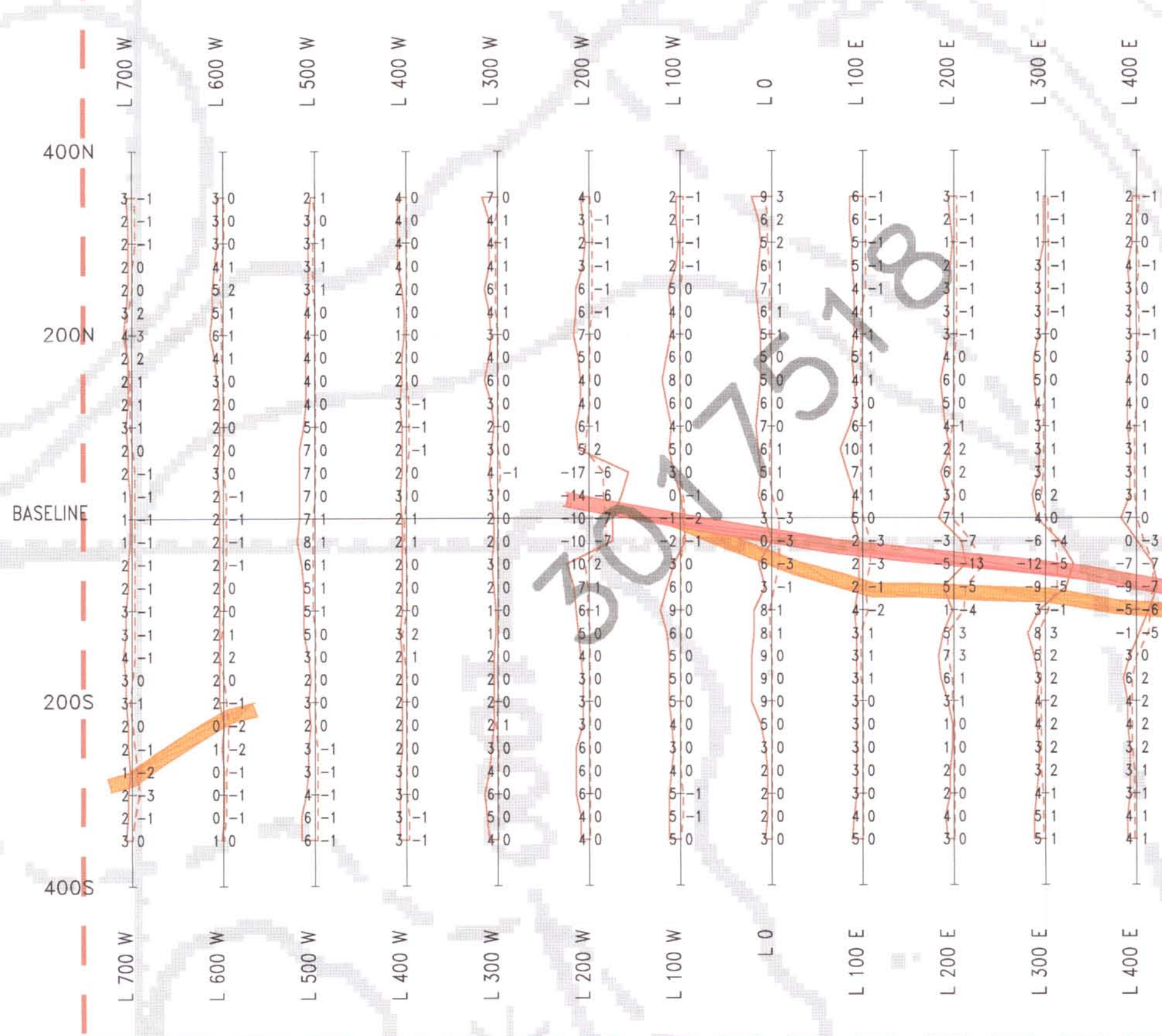




**MaxMin H.L.E.M. Legend**



NTS 42A/6  
NTS 42A/7



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**GOLDEN CHALICE RESOURCES Inc.**

**LANGMUIR PROPERTY**

**Horizontal Loop E.M. survey**

Profiles of the In-Phase and Quadrature components

Frequency : 444 Hz

Profile scale: 1 cm=20% Coil separation: 100 meters

Data processing and interpretation by: Langmuir Township, Ontario

G. Lambert, P.Eng. Scale 1:5,000

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Scale 1:5,000







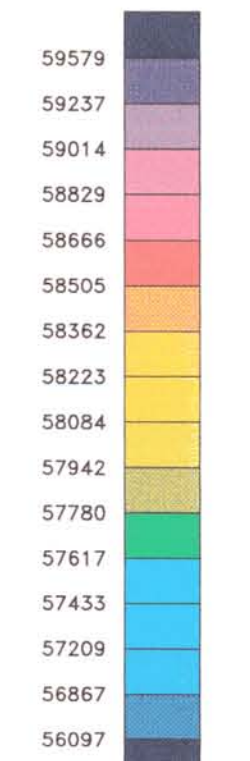
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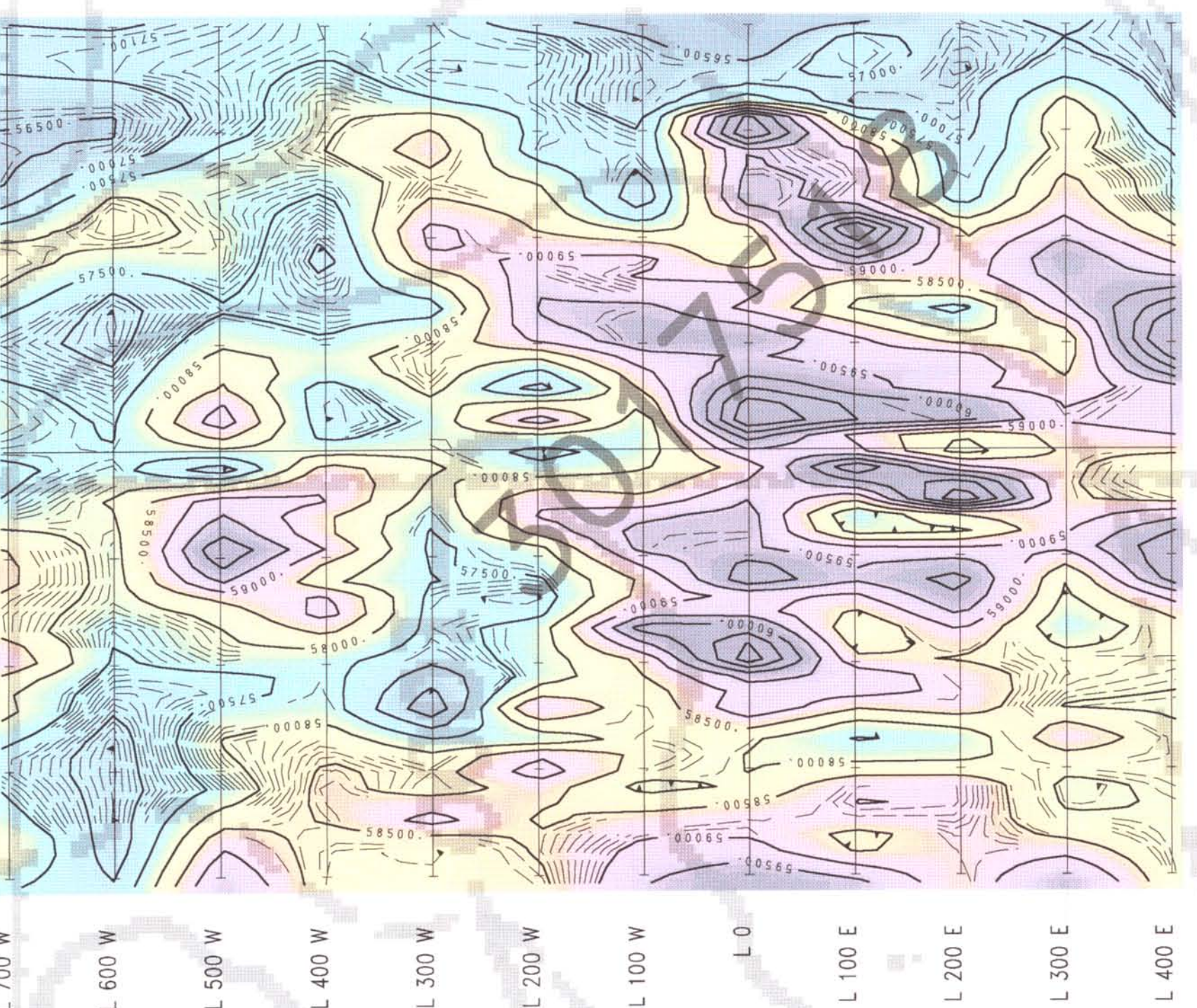
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Total Magnetic Field (Gammas)  
Contour interval: 50 gammas

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**LANGMUIR PROPERTY**

**Ground Magnetometer survey**

*Contours of the Total magnetic field*

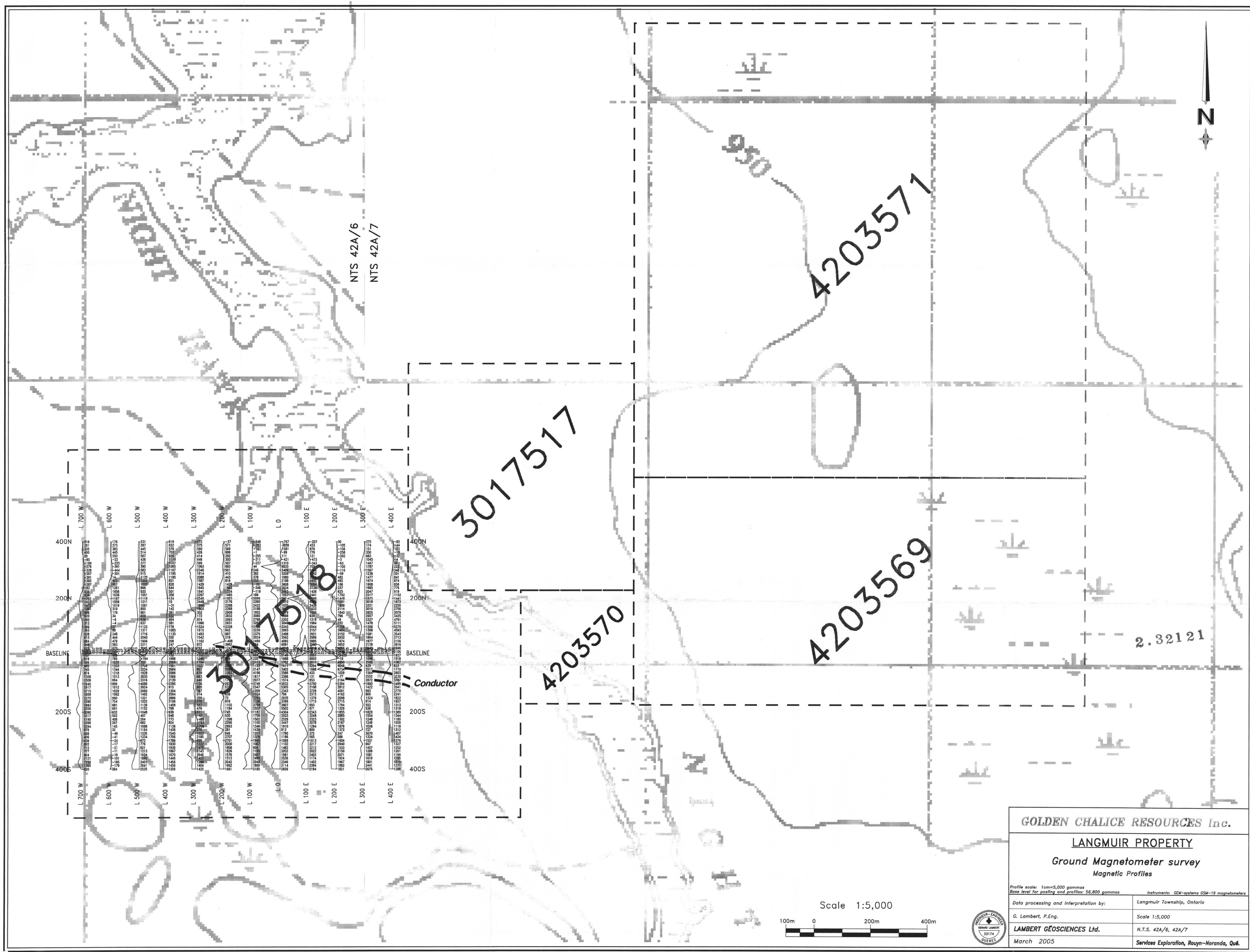
Contour interval: 50 gammas      Instruments: GEM-systems GSM-19 magnetometers

Data processing and interpretation by:	Langmuir Township, Ontario
G. Lambert, P.Eng.	Scale 1:5,000
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March 2005	Services Exploration, Rouyn-Noranda, Qué.

Scale 1:5,000







NTS 42A/6  
NTS 42A/7

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Conductor

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**Ground Magnetometer survey**  
Magnetic Profiles

Profile scale: 1cm=5,000 gammas  
Base level for posting and profiles: 56,800 gammas  
Instruments: GEM-systems CSM-19 magnetometers

<small>Data processing and interpretation by:</small>	Langmuir Township, Ontario
<small>G. Lambert, P.Eng.</small>	Scale 1:5,000
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