



GÉOLA  
DASE. EN EXPLORATION.



42A03NW0012 2 16596 MCARTHUR

010

2.16596

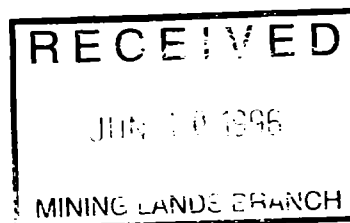
**GEOPHYSICAL SURVEYS – VLF & MAG  
PERFORMED ON A PROPERTY OF  
DYNAMIC RESOURCES INC.**

**PORCUPINE GOLD MINES  
McARTHUR TOWNSHIP, ONTARIO**

**L.Plante, M.Sc.      March 1996**

*Qual. # 2.16327*

96-788



## INTRODUCTION

Geophysical surveys, including V.L.F. and magnetics, were performed over a property owned by Dynamic Resources. The property is located in McArthur township, province of Ontario.

Interesting gold values were found on a quartz vein showing located near the shore of Triple lake. A shaft was sunk on the showing in 1938 for exploration of the vein (D.R. Pyke, 1978). Five holes were drilled in the shaft area in 1982 and permitted to outline a north-east mineralized zone of 150 feet long by 40 to 50 feet wide. The zone is silicified and associated with up to 5 % sulphides (pyrite, chalcopyrite and pyrrhotite). The assays returned low but anomalous gold values (R.C. Wells, 1982). Note the drill hole results were published only in 1986 (not for assesment).

A V.L.F. survey was carried out over a grid of flagged lines (J.C. Grant, 1985). Recent sampling of the vein in a trench gave good results (see the certificate in annex), so the present geophysical works were undertaken.

The purpose of our survey was locate possible conductive zones possibly associated to the known mineralization. The magnetic survey was done to define the geological structure of the property and to establish correlations with the other types of data.

### PROPERTY , LOCATION AND ACCESS

The property is located in McArthur township, at  $\pm$  30 km south of Timmins, Ontario. The property consists in three claim blocks, with three units each, including the following (360 acres or 144 hectares): P.1099558, P.1204357, P.1204358.

The property can be reached easily from Timmins, using highway 560 south down to the village of Shining Tree. A bush road, near the McArthur-Bartlett township boundary, leads to the north-north-east to the shaft area.

### GEOPHYSICAL WORK

During the period of February 25 to March 8, 1996, a V.L.F. (NAA; 23 km) and a magnetic survey (total field and measured vertical gradient; 23 km) were done over the property, both using an OMNI-PLUS from EDA. The magnetic data were corrected for diurnal variations using data from an automatic base station located in the field. A technical problem occurred with the V.L.F. inducing severe noise into the data. The problem was corrected and field measurements retaken.

The grid consists in a north-south set of lines, 50' to 100 metres apart, and on east-west tie-lines.

LOCATION MAP



DYNAMIC RESOURCES  
PORCUPINE GOLD MINES  
McArthur Twp., Ontario

N.T.S. 42A/03

SCALE 1: 10,000,000



GEOLA LTD 96-788

## DISCUSSION ON THE METHODS

### The V.L.F. method:

The primary V.L.F. field is constituted by a horizontal magnetic field and a vertical electrical field. It is generated by remote radio-communication antennas. The V.L.F. method consist in the measurement of In-Phase component and of Out-of-Phase component of the resultant vertical magnetic field which is produced by currents induced in a conductive source by the primary horizontal magnetic field. The readings are given as percents (%).

The V.L.F. electromagnetic method is normally used in non-conductive overburden areas to obtain information on the geological structure, reflected by conductive zones such as faults, shear zones and naturally, massive sulphides and graphite.

The conductive zones are picked up with varying amplitude readings depending on the following parameters: overburden conductivity, conductivity of the zone, depth, angle with the transmitter station and the geometry of the conductive zone.

Normally, a V.L.F. anomaly is not a diamond drill target on its own. It has to be in verified with other geophysical or geoscientific data.

During a survey, it is a good policy to use two (2) different stations perpendicular to one another. This can allow the detection of more conductors. However, due to the electro-

magnetic field line distortion present at the edge of a conductor, a false short conductor may be obtained with another perpendicular transmitter station.

Normally, the conductors producing these V.L.F. anomalies are located near the axis which have been interpreted and drawn on the profile map. However, they are possibly displaced and located between the "zero" of the profile (where it goes from positive to negative values) and the cross-over of the profile.

The second priority anomalies should be the first to be studied since they show the characteristic features of bedrock conductors. The "first priority" may be attributed to an anomaly if other favourable geoscientific data add to its value.

#### The magnetic method:

A concentration of minerals having a different magnetic susceptibility compared to the surrounding rocks, will give rise to variations in the earth's magnetic field. Systematic observation of the earth's total field over the property, allows us to outline zones of different magnetization, which are related to more or less magnetic geological units or concentrations of magnetic minerals. By measuring or calculating the vertical magnetic gradient, the resolution of the survey is increased, thus helping its interpretation. The magnetic field units are " gammas " ( $\gamma$ ) or " nanoTeslas " (nT).  $1 \gamma = 1 \text{ nT}$ .

Minerals having strong magnetic susceptibility are magnetite and pyrrhotite and are usually but not necessarily associated as primary or accessory minerals in massive sulphide

deposits or other possible economic mineralizations. Thus, coincident magnetic and H.E.M. or I.P. anomalies could be important but are not necessarily significant. The global interpretation of the magnetic survey, consisting in delimitating zones of different magnetic susceptibility, is highly advisable. This interpretation contributes in outlining the major geological units and structures such as faults on the property.



## DESCRIPTION AND INTERPRETATION

### The magnetic survey:

Noise is observed around the shaft area, and it is caused by old mining equipment and drill hole casings (?). Otherwise, the magnetic field is relatively uniform over the grid, with weak anomalies reaching 100 to 200 nT. The only exceptions are strong anomalies observed in the north-east corner of the grid. These anomalies strike north-north-west and would be produced by mafic intrusive rocks (diabase).

A possible circular (or slightly elliptic) feature is readily seen on the total field color map. This feature is centered on line 6+00 W,  $\pm$  3+00 N, and has a length of 450 metres east-west (long axis). It could represent a possible intrusive pipe with a magnetic ring. But this feature may be re-interpreted otherwise, when looking at the profiles. A north-north-west trend can then be envisaged.

A few  $\pm$  east-west trending anomalies can be interpreted to the west of the lake, particularly near base-line 0+00 N.

Low magnetic field is measured particularly over the east shore of Triple lake. This low can be interpreted as a possible north-north-west fault.

At least two anomalies form a north-east trend near the shaft area. These anomalies are located on line 4+50 E, at  $\pm$  0+60 S, and on line 5+00 E, at  $\pm$  0+25 S. The shape of the profiles indicates the source is relatively shallow. This magnetic



axis strikes parallel to the gold bearing quartz vein (which strikes at  $050^\circ$ , that is  $\pm$  north-east) and could be produced by secondary magnetite or by pyrrhotite, associated to the mineralization.

This axis cannot be extended to the north-east because of the noisy shaft area, but it may be possible to interpret its extension to the south-west, up to the other side of the lake (see very weak magnetic anomalies on the profile map). Only a very weak and questionable V.L.F. anomaly can be associated to one of these magnetic high (line 4+50 E,  $\pm$  0+60 S).

#### The V.L.F. survey:

The V.L.F. profiles show some relatively strong deflections but these are more likely to be produced by some overburden effects. No north-east trending V.L.F. axis could be interpreted from the data.

Two possible axes are located at  $\pm$  240 and 115 metres south of the shaft but they strike  $\pm$  east-west. They are not very well defined. A strong inverted cross-over is located just south of the shaft, along the base-line 0+00 N. It is possibly caused by the edge of outcropping area. An axis located at  $\pm$  200 metres north of the shaft strikes  $\pm$  north-west and is probably produced by some overburden effects. An other one located west of the lake, at around 1+40 S, seems also to be produced by some overburden effects.

One axis that may have some importance is located near the shore of the lake (see on line 4+00 E, station  $\pm$  2+05 N). It is weak but is associated to weak magnetic anomalies observed over a few lines, striking north-north-west. One could

interpret this as a possible shear zone with some secondary magnetite or pyrrhotite (?).

Finally, a possible west-south-west to east-west axis is interpreted in the north-east corner of the grid, where north-north-west striking diabase dykes are interpreted from the magnetic data. The V.L.F. anomaly on line 12+00 E,  $\pm$  5+70 N, is very well defined and the interpreted V.L.F. axis is located where some discontinuities seem to occur in the magnetic data. This may represent a possible fault.

#### **CONCLUSION AND RECOMMENDATIONS**

The V.L.F. survey permitted to detect some anomalies over the property. However, only one of them, located in the north-east corner of the grid, was well defined. The other anomalies are weak or not well defined, more probably related to some overburden effects. No interpreted V.L.F. axes can be associated directly to the known gold bearing quartz vein or to the silicified zone, nor is there any V.L.F. axis parallel to them.

A short magnetic axis has been interpreted just south of the shaft area. This axis strikes approximately north-east and could be produced by secondary magnetite or pyrrhotite associated to the mineralization. An other weak magnetic axis, associated to weak V.L.F. anomalies, strikes north-north-west and could be related to a fault.




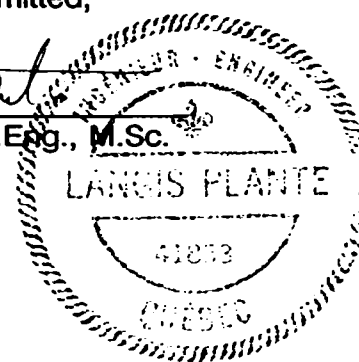
Since good assay results were obtained on the gold bearing quartz vein, even recently, the property warrants some more work. Apparently, the V.L.F. survey did not permit to uncover very interesting features, but the interpreted north-east striking magnetic axis south of the shaft may be significant.

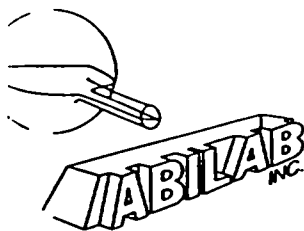
The mineralization consists in gold bearing quartz vein and in a silicified zone, associated with disseminated sulphides (Darke, 1995, and Wells, 1982). Consequently, in order to define these zones and their possible extensions, we recommend the property be covered with an I.P. survey, with the following specifications: dipole-dipole,  $a = 25$  metres,  $n = 1$  to 5. Since a good part of the grid is covered by the lake, the survey should be carried out during the winter.

We also recommend that a geological survey covering the entire grid, including prospection, should be undertaken during the following summer. All available data should then be studied and drilling recommended afterward.

Respectfully submitted,

By:   
Langis Plante, P.Eng., M.Sc.





# ABILAB INC.

1905, 3e Avenue, Val-d'Or (Québec) J9P 4N7  
Tél.: (819) 874-4723 Fax: (819) 874-0625

32718

04/03/96

CERTIFICAT D'ANALYSES N°: \_\_\_\_\_ DATE: \_\_\_\_\_

Ladel Explorations Inc.

Roches

n. \_\_\_\_\_ Échantillons: \_\_\_\_\_ Projet: \_\_\_\_\_

u e: \_\_\_\_\_ Nombre d'analyses: 14 Date reçu: 29/02/96

ments: Au, Ag Limite de détection: Au, Ag 0.001 oz/ton Méthode: Pyro, A.A.

<u>Echantillons</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>
GLR	0.850	0.408
GLR - 2	1.957	0.671
0 - 18	0.007	0.050
18 - 30	0.065	0.064
30 - 38	0.023	0.088
38 - 45	0.063	0.105
45 - 60	<0.001	0.029
Check		
45 - 60	<0.001	0.038
Blanc	<0.001	<0.001

ANALYSTE: \_\_\_\_\_





GÉOLA  
CONSEIL EN EXPLORATION

### **STATEMENT FOR ASSESSMENT WORK**

I, the undersigned, Langis Plante, for **Géola Limitée**,  
certify to the following:

During the period of February 25 to March 8, 1996,  
a V.L.F. (23 km) and a magnetic (23 km) surveys were performed  
over a property owned by **Dynamic Resources, Vancouver**.

The property is located in McArthur township, at  $\pm$   
30 km south of Timmins, Ontario. The property consists in three  
claim blocks, with three units each, including the following (360  
acres or 144 hectares): P.1099558, P.1204357, P.1204358.

#### **Description of the V.L.F. method:**

Instrument: OMNI-PLUS from EDA;  
Parameters: In-Phase and Out-of-Phase components;  
Stations: NAA (24,0 kHz);  
Precision: 1 - 2%;  
Interval: 10 metres.

#### **Description of the magnetic method:**


Instrument: OMNI-PLUS from EDA;  
Parameters: Total field and measured vertical gradient;  
Precision:  $\pm$  1 nT;  
Interval: 10 metres.

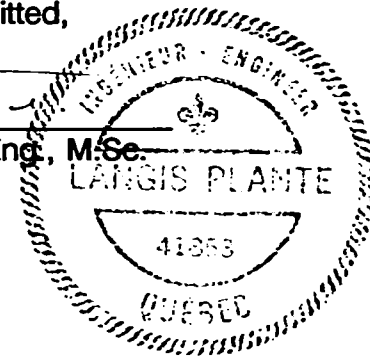
Operator:

(4 days)

Jacques Demers  
663, R.R. 1  
Authier-Nord, QC

Respectfully submitted,

By:   
Langis Plante, P.Eng., M.Sc.







Report of Work Conducted After Recording Claim  
Mining Act

Transaction Number  
W9660.00259

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 169 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.16596

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations Recorder.
  - A separate copy of this form must be co
  - Technical reports and maps must accom
  - A sketch, showing the claims the work is



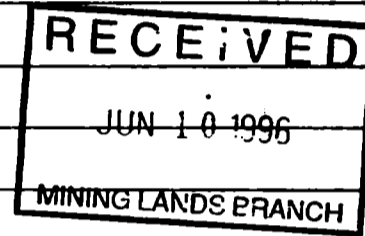
42A03NW0012 2 16596 MCARTHUR

900

Recorded Holder(s) Richard havoie		Client No. 157948
Address 1142 1st St. Val d'or, Quebec J9P4E5		Telephone No. 8198252066
Mining Division PORCUPINE	Township/Area McArthur	M or G Plan No. G-3227
Date Work Performed	From: February 26, 1996	To: February 27, 1996

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input checked="" type="checkbox"/> Assays	Rock / <sup>Hand</sup> Trenching / Sampling.
<input type="checkbox"/> Assignment from Reserve	



Total Assessment Work Claimed on the Attached Statement of Costs \$ 1,106

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Langis Plante / Géola conseil en Exploration	73, chemin Baie Carrière Val d'Or, Québec.

(attach a schedule if necessary)

Certification of Beneficial Interest \* See Note No. 1 on reverse side

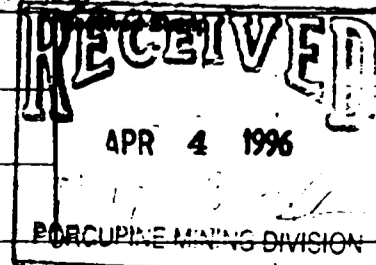
I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Richard havoie 1142 1st St Val d'or, Quebec J9P4E5		
Telephone No. 8198252066	Date April 4, 1996	Certified By (Signature) Richard havoie

For Office Use Only

Total Value Cr. Recorded 1106-	Date Recorded	Mining Recorder
	Deemed Approval Date JULY 3/96	Date Approved
	Date Notice for Amendments Sent	









Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

2.16595

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	700	
	Field Supervision Supervision sur le terrain		700
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Assay Abilab Inc	140	
			140
Supplies Used Fournitures utilisées	Type Paint, flagging tapes, sample bags, markers	82	
			82
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>1922</b>

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck 180km	54.50	
	300/km		
<b>RECEIVED</b>			
JUN 10 1996			
MINING LANDS BRANCH			
Food and Lodging Nourriture et hébergement	2 men	130	130
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>184.50</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>384.50</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)</b>			<b>1960.50</b>
<b>Value totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>			<b>1960.50</b>

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Richard Kavoie I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

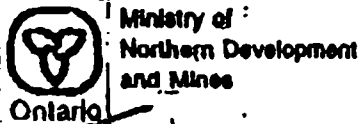
**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature: Richard Kavoie Date: 04-04-96



### Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
**W9660:00260**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 158 Cedar Street, Sudbury, Ontario, P3E 6A8, telephone (705) 670-7284.

**2.16590**

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>RICHARD LAVOIE</b>	Client No. <b>157948</b>
Address <b>1142 1st St. Val d'Or Quebec J9P4E5</b>	Telephone No. <b>819 8252066</b>
Mining Division <b>PORCUPINE</b>	Township/Area <b>McArthur</b>
	M or O Plan No. <b>G-3227</b>
Date Work Performed From: <b>February 25, 1996</b> To: <b>MARCH 8, 1996</b>	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>VLF and Magnetometer</b>
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

**RECEIVED**  
JUN 10 1996  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **13,624**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<b>Langis Plante / Géola Conseil Exploration</b>	<b>73, chemin Baie Carrière Val d'Or, Québec</b>

attach a schedule if necessary)

Verification of Beneficial Interest \* See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: **April 4, 1996** Recorded Holder or Agent (Signature): *[Signature]*

Verification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying:  
**RICHARD LAVOIE 1142 1st St Val d'Or, Québec J9P4E5**

Telephone No.: **819 8252066** Date: **April 4, 1996** Certified By (Signature): *[Signature]*

Office Use Only

Total Value Cr. Recorded <b>13,624</b>	Date Recorded	Mining Recorder
	Deemed Approval Date <b>JULY 3/96</b>	Date Approves
	Date Notice for Amendments Sent	

Received Stamp: **APR 4 1996**  
FORCUPINE MINING DIVISION



# Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
0900000266

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 169 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 870-7264.

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>RICHARD LAVOIE</b>	Client No. <b>157998</b>
Address <b>142 1st St. Val d'Or Quebec J9P4E5</b>	Telephone No. <b>819 8252066</b>
Mining Division <b>PORCUPINE</b>	M or G Plan No. <b>G-3227</b>
Township/Area <b>McArthur</b>	
Dates Work Performed From: <b>February 25, 1996</b> To: <b>MARCH 8, 1996</b>	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>VLF and Magnetometer</b>
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECEIVED  
JUN 10 1996  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **13,624**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<b>Langis Plante / Géola Conseil Exploration</b>	<b>73, chemin Baie Carrière Val d'Or, Québec</b>

(attach a schedule if necessary)

Certification of Beneficial Interest \* See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>RICHARD LAVOIE 142 1st St Val d'Or, Quebec J9P4E5</b>		
Telephone No. <b>819 8252066</b>	Date <b>April 4, 1996</b>	Certified by (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded <b>13,624</b>	Date Recorded <b>July 2 1996</b>	Mining Recorder <b>T. B. [Signature]</b>	Received Stamp <b>JUN 4 1996</b>
	Deemed Approval Date <b>July 2 1996</b>	Date Approved	
	Date Notice for Amendments Sent		







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

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

June 27, 1996

Our File: 2.16596  
Transaction #: W9660.00259

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Avenue, 1st Floor  
Timmins, Ontario  
P4N 2S7

Dear Mr. White:

**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND,  
CLAIM P.1099558 IN MCARTHUR TOWNSHIP**

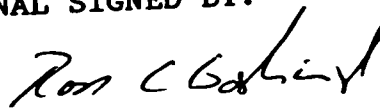
Assessment work credit has been approved as outlined on the attached Assessment Work Credit Form. The credit has been changed to reflect where the work was performed.


The credit has been approved under Section 17, Assays, of the Assessment Work Regulation.

**The approval date is June 25.**

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours sincerely,  
ORIGINAL SIGNED BY:

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

 LBJ/cc  
cc: Resident Geologist  
Timmins, Ontario

✓ Assessment Files Library  
Sudbury, Ontario

**DISTRIBUTION OF ASSESSMENT WORK CREDIT**

Note: credit distribution reflects the value of assessment work performed on mining land.

Date June 27, 1996  
File Number: 2.16596  
Transaction #: W9660.00259

**CLAIM NUMBER**

1099558

**VALUE OF WORK PERFORMED**

\$ 1106



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

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

August 14, 1996

Our File: 2.16596  
Transaction #: W9660.00260

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Avenue, 1st Floor  
Timmins, Ontario  
P4N 2S7

Dear Mr. White:

**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND,  
CLAIMS P.1099558 ET AL. IN MCARTHUR TOWNSHIP**

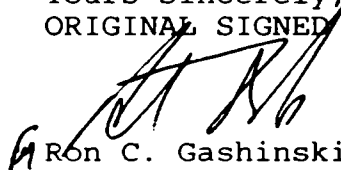
The 45 days outlined in the Notice dated June 27, 1996 have passed.

Accordingly, assessment work credit has been approved as outlined on the attached sheet. The credit has been approved under Section 12, Geophysics (MAG,VLF), of the Assessment Work Regulation.

**The approval date is August 14, 1996.**

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours Sincerely,  
ORIGINAL SIGNED BY:

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

LBJ/jf  
Enclosure:

cc: Resident Geologist  
Timmins, Ontario

✓ Assessment Files Library  
Sudbury, Ontario

**DISTRIBUTION OF ASSESSMENT WORK CREDIT**

Note: credit distribution reflects the value of assessment work performed on mining land.

**Date: August 14, 1996**

**File Number: 2.16596**

**Transaction #: W9660.00260**

<u>CLAIM NUMBER</u>	<u>VALUE OF WORK PERFORMED</u>
P.1099558	1778
1204357	1778
1204358	<u>1779</u>
	5335

**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**  
 SURFACE RIGHTS ONLY  
 SURFACE RIGHTS ONLY  
 SURFACE RIGHTS AND MINING RIGHTS

- (C2) SURFACE AND MINING RIGHTS WITHDRAWN UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P 60/84 NER DATED 94-MAY-02
- (C3) SURFACE AND MINING RIGHTS WITHDRAWN UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P 61/94 NER DATED 94-MAY-02

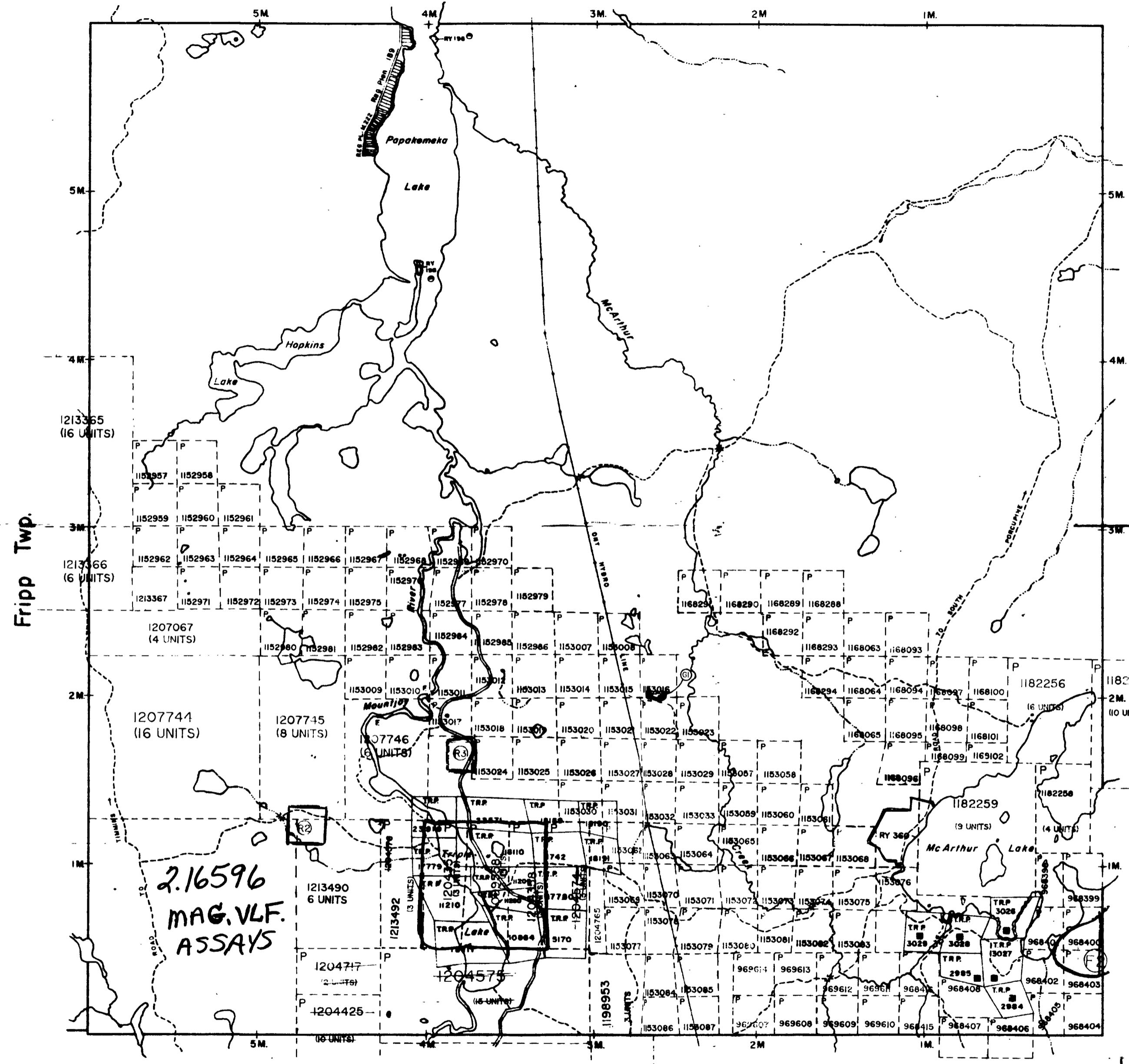
(R1) LAND USE PERMIT  
 COMMERCIAL CAMPGROUNDS

(F1) SUBJECT TO FORESTY ACTIVITY IN 1994/95

(F2) THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995-6. FURTHER INFORMATION AVAILABLE ON FILE.

G1 PENDING APPLICATION FOR AGGREGATE PERMIT. NOTICE RECEIVED 94-MAY-20

**Adams Twp.**



**Bartlett Twp.**

**LEGEND**

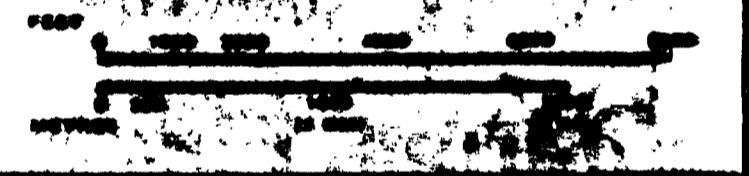
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, RANGE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL BOUNDARY
- MARCH OR BOUNDARY
- MINES
- TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	⊙
- SURFACE RIGHTS ONLY	⊙
- MINING RIGHTS ONLY	⊙
LEASE, SURFACE & MINING RIGHTS	⊙
- SURFACE RIGHTS ONLY	⊙
- MINING RIGHTS ONLY	⊙
LICENCE OF OCCUPATION	⊙
ORDER-IN-COURSE	⊙
RESERVATION	⊙
CANCELLED	⊙
RESERVED	⊙

THIS IS PART OF A PATENTED PLAN TO BE A PART OF ORIGINAL PATENT OF THE PUBLIC BY S.S. 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

SCALE: 1 INCH = 40 CHAINS



JUN 7 1994  
 TOWNSHIP *not updated*

**McARTHUR**  
 M.E.B. ADMINISTRATIVE DISTRICT  
 TIMMINS  
 MINING DIVISION  
 PORCUPINE  
 LAND TITLES/REGISTRY DIVISION  
 TIMISKAMING

Ministry of Natural Resources  
 Land Management Branch

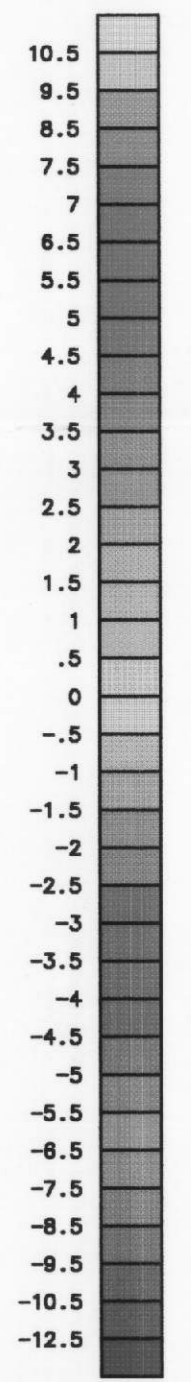
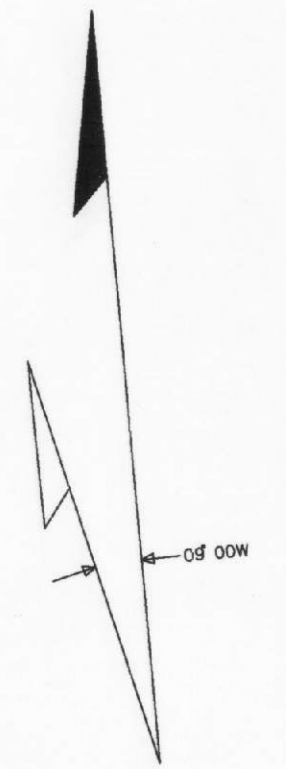
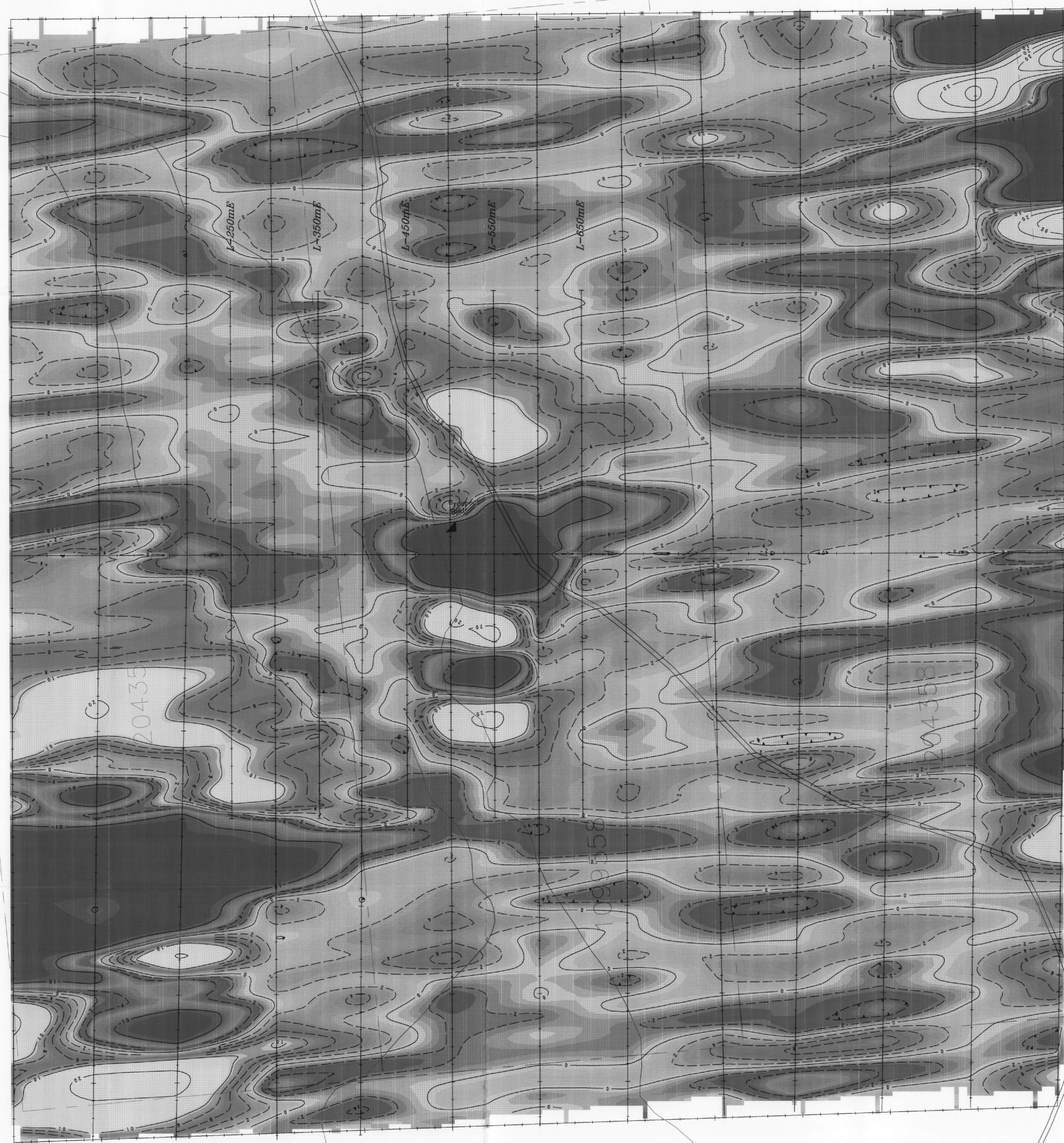
RECEIVED  
 ACTIVATED MAY 15/94  
 MINING LANDS BRANCH  
**G-3227**



L-0+00 L-100mE L-200mE L-300mE L-400mE L-500mE L-600mE L-700mE L-800mE L-900mE L-1000mE L-1100mE L-1200mE

(T.L. 600mN) 600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L.0+00  
100mS  
200mS  
300mS  
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500mS  
600mS  
(T.L. 700mS)

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500mN  
400mN  
300mN  
200mN  
100mN  
B.L.0+00  
100mS  
200mS  
300mS  
400mS  
500mS  
600mS  
(T.L. 700mS)



FRASER METHOD CONTOURS  
Freq. : NAA (24 kHz)

2.13596

RECEIVED  
JUN 10 1996  
MINING LANDS BRANCH

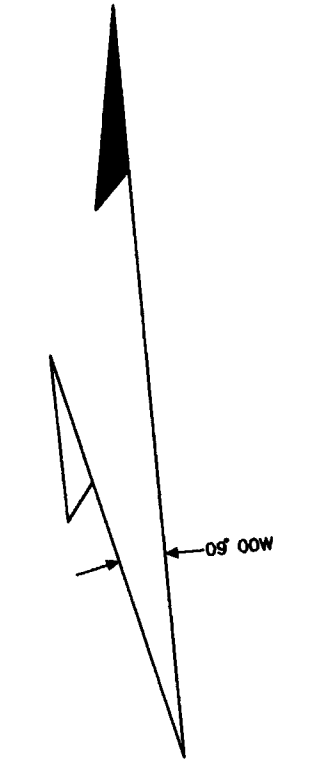
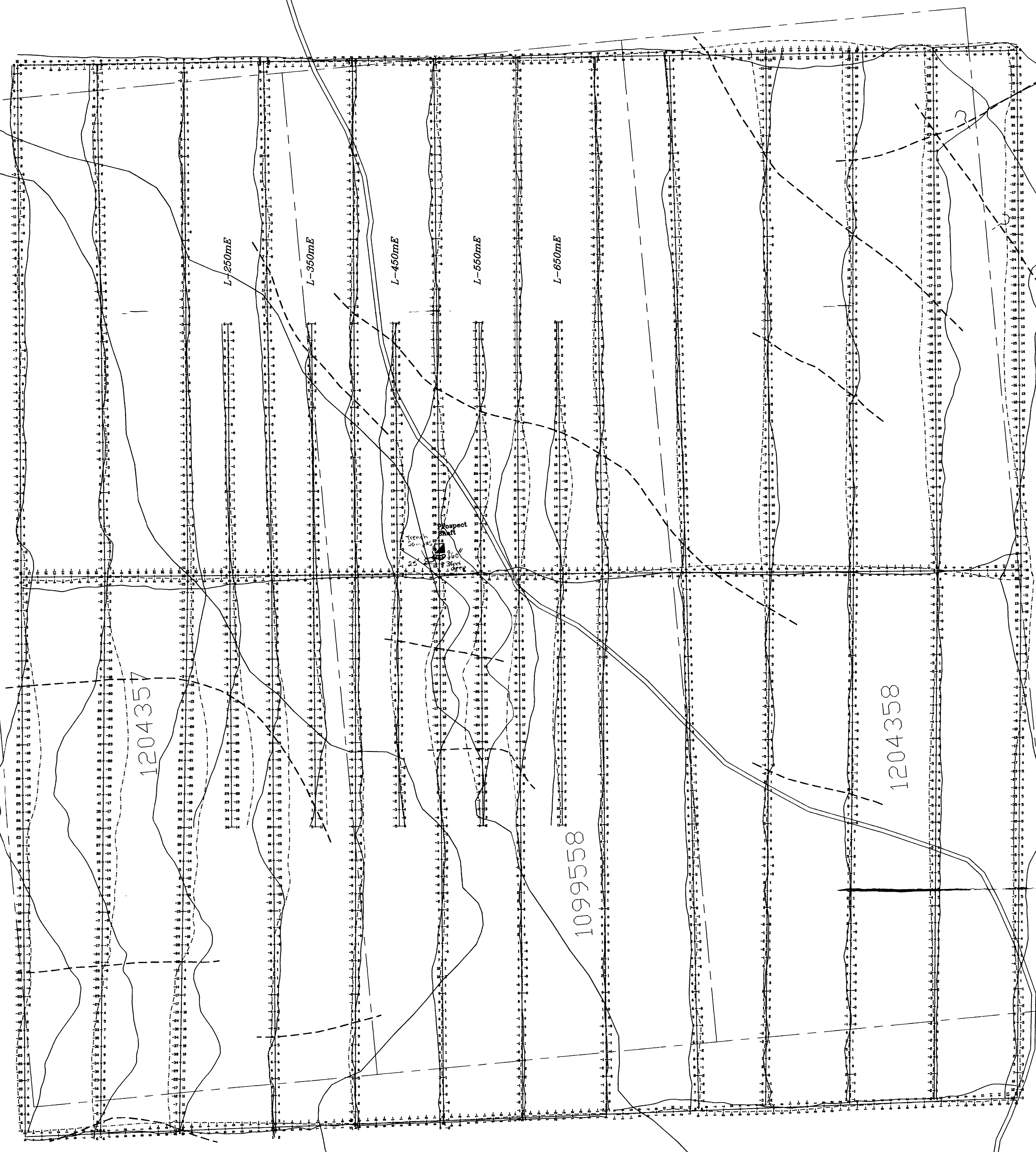


FOR: DYNAMIC RESOURCES	
SURVEY: V.L.F. (FRASER METHOD CONTOURS) <i>Inst: EDA OMNI-PLUS</i>	
BY: GEOLA LTEE	
EXECUTED BY: J. Demers Feb. 1996	PROJECT: PORCUPINE GOLD MINES McArthur Twp., Ont.
INTERPRETED BY: L. Plante M.Sc. Feb. 1996	
DRAWN BY: J. Proulx Tech. Feb. 1996	
APPROVED BY:	LAT: 48°12' 00" LONG: 81°17' 00"
REVISED BY:	SCALE 1:2500 0 25 50 75 100 Metres
PLAN No: 96-788	N.T.S. : 4/24/03

L-0+00 L-100mE L-200mE L-300mE L-400mE L-500mE L-600mE L-700mE L-800mE L-900mE L-1000mE L-1100mE L-1200mE

(T.L. 600mN) 600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L.0+00  
100mS  
200mS  
300mS  
400mS  
500mS  
600mS  
(T.L. 700mS)

(T.L. 600mN) 600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L.0+00  
100mS  
200mS  
300mS  
400mS  
500mS  
600mS  
(T.L. 700mS)



Sample numbers in this row  
Treated located near  
Station 01257N

GLR  
0-18  
10-30  
38-45  
Blume

2.16596

V.L.F. SURVEY  
Profiles IN-Phase component  
1 cm = 250 x

RECEIVED  
JUN 10 1996  
MINING LANDS BRANCH

1 cm = 250 x  
and Out-of-Phase component

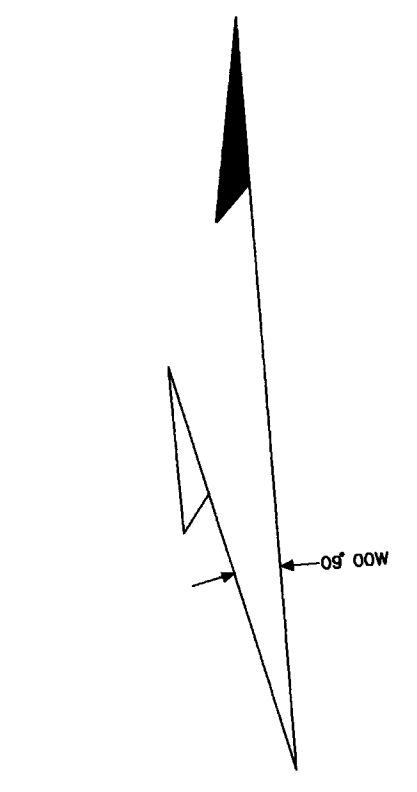
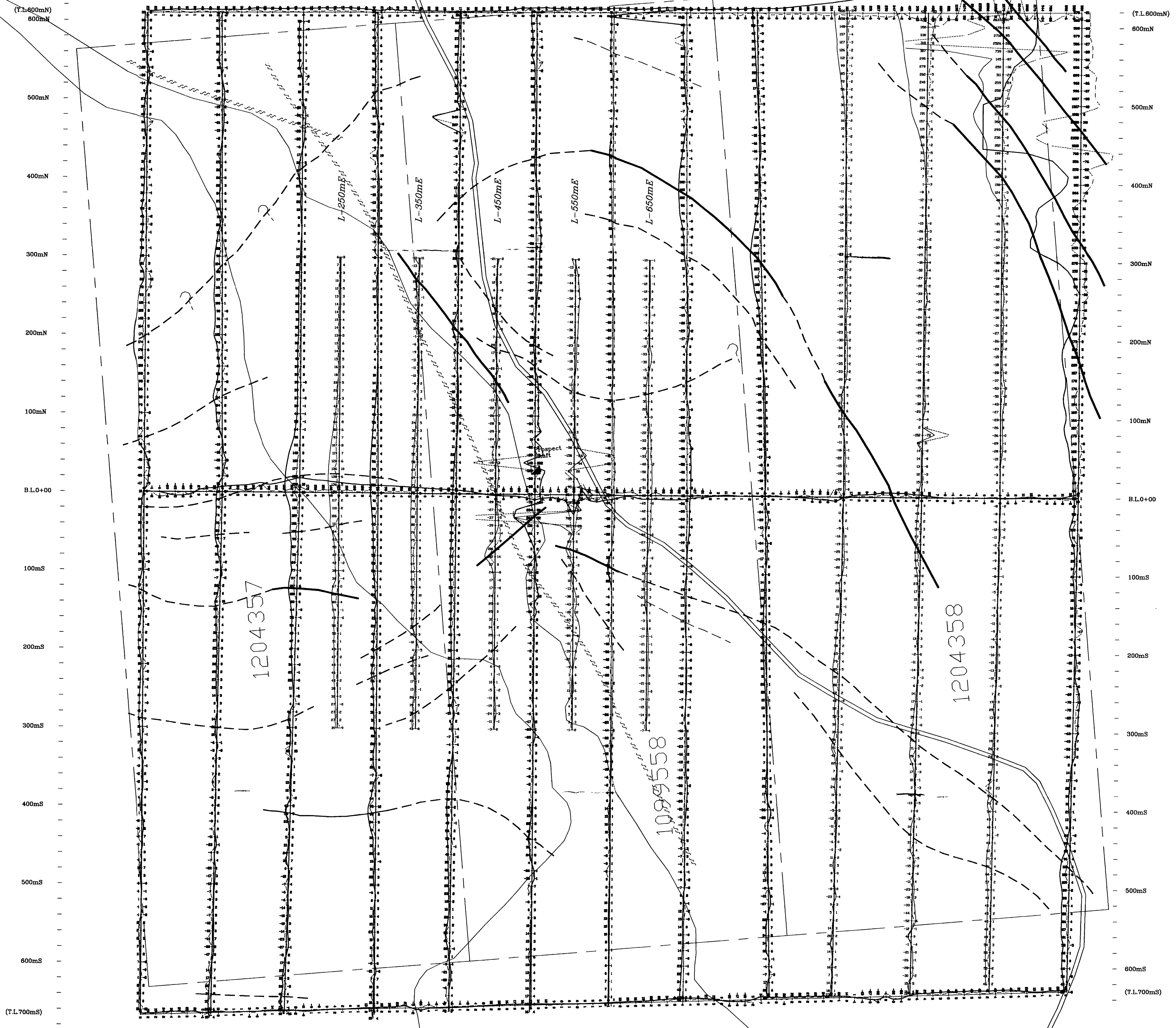
INGÉNIEUR - ÉMISSEUR  
LANGIS PLANTE  
41853  
QUEBEC

Triple Lake

FOR: DYNAMIC RESOURCES	
SURVEY: V.L.F. PROFILES (NAA) <small>Inst: Omni-Plus, Freq: NAA (Cutler 24.0kHz)</small>	
BY: GEOLA LTEE	
EXECUTED BY: J. Demers Feb. 1996	PROJECT: PORCUPINE GOLD MINES McArthur Twp., Ont.
INTERPRETED BY: L. Plante M.Sc. Feb. 1996	
DRAWN BY: J. Proulx Tech. Feb. 1996	
APPROVED BY:	LAT: 48°12' 00" LONG: 81°17' 00"
REVISED BY:	SCALE 1:2500
PLAN No: 96-788	N.T.S.: 42A/03



L-0+00 L-100mE L-200mE L-300mE L-400mE L-500mE L-600mE L-700mE L-800mE L-900mE L-1000mE L-1100mE L-1200mE



MAGNETIC SURVEY  
 Profiles: Total Field  
 Base level: 58650 nT  
 1 cm = 2500 nT

1 cm = 500 nT/m  
 and Vertical gradient

RECEIVED  
 MAR 16 1996  
 MINING LANDS BRANCH

2.16596

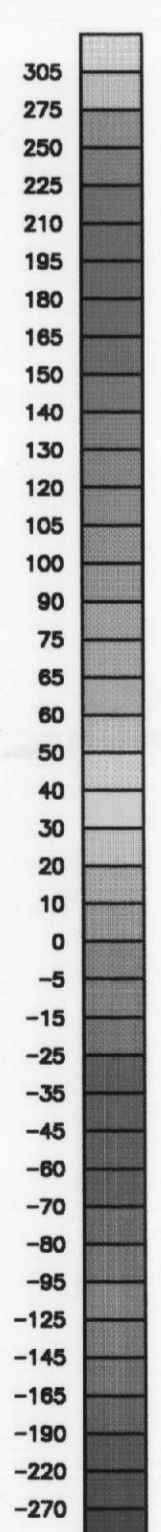
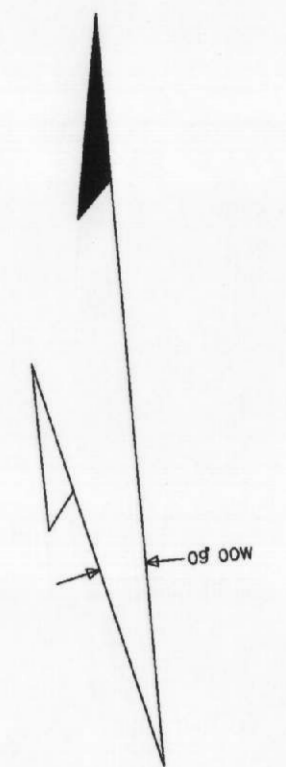
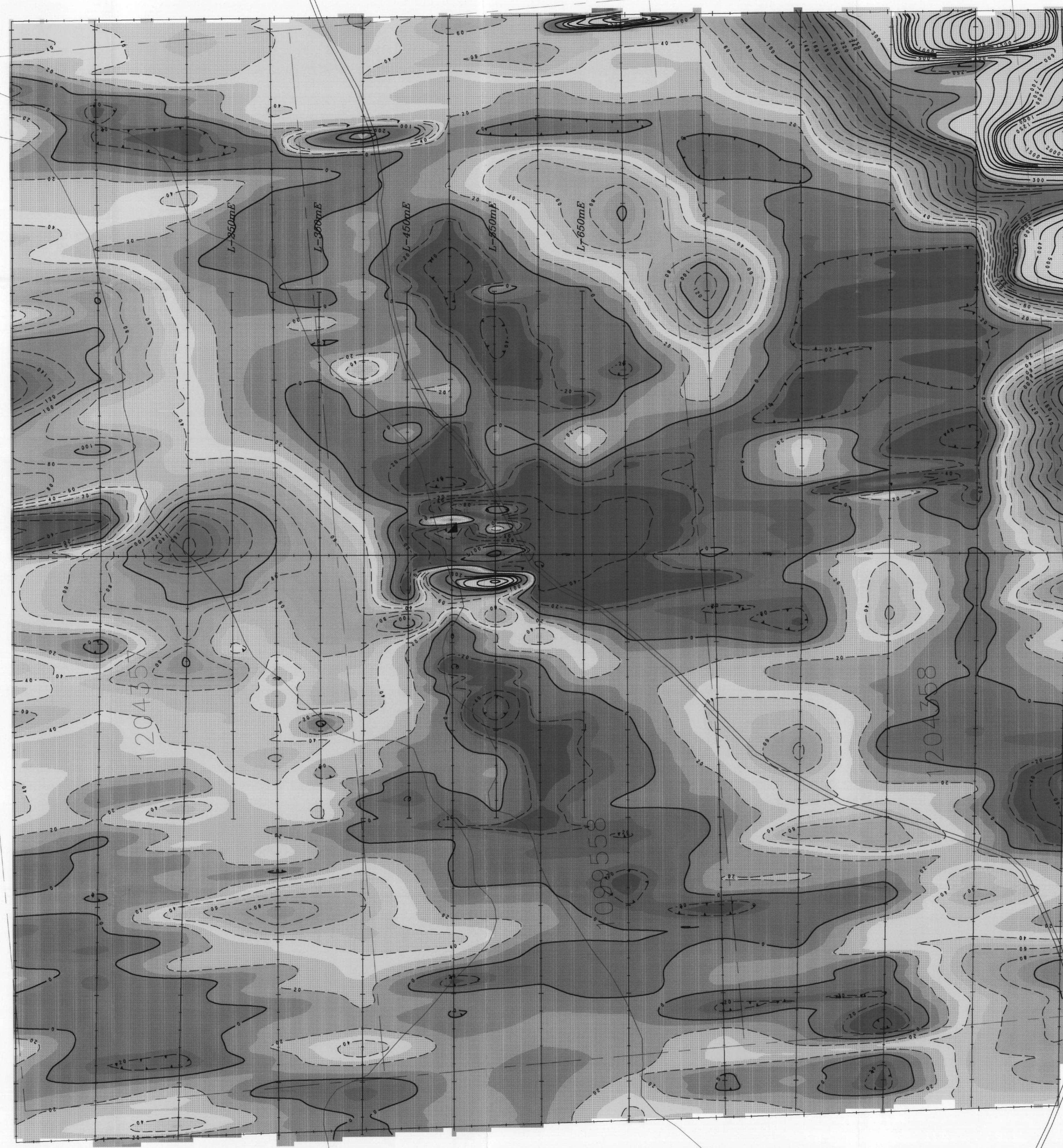


FOR: DYNAMIC RESOURCES	
SURVEY: MAGNETIC & GRADIOMETRIC PROFILES Inst: EDA OMNI-PLUS	
BY: GEOLA LTEE	
EXECUTED BY: J.Demers Feb. 1996	PROJECT: PORCUPINE GOLD MINES McArthur Twp., Ont.
INTERPRETED BY: L.Plante M.Sc. Feb. 1996	LAT: 48°12' 00" LONG: 81°17' 00"
DRAWN BY: J.Proulx Tech. Feb. 1996	SCALE 1:2500
APPROVED BY:	0 25 50 75 100 Mètres
REVISÉ BY:	N.T.S. : 42/03
PLAN No: 96-788	

L-0+00 L-100mE L-200mE L-300mE L-400mE L-500mE L-600mE L-700mE L-800mE L-900mE L-1000mE L-1100mE L-1200mE

(T.L. 600mN) 600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L. 0+00  
100mS  
200mS  
300mS  
400mS  
500mS  
600mS  
(T.L. 700mS)

(T.L. 600mN) 600mN  
500mN  
400mN  
300mN  
200mN  
100mN  
B.L. 0+00  
100mS  
200mS  
300mS  
400mS  
500mS  
600mS  
(T.L. 700mS)



RECEIVED  
JUN 10 1996  
MINING LANDS BRANCH

2.16596

MAGNETIC TOTAL FIELD  
Base 58650 nT



Triple  
Lake

FOR:	DYNAMIC RESOURCES	
SURVEY:	MAGNETIC TOTAL FIELD <i>Inst: EDA Orni-Plus, Proton Magnetometer</i>	
BY:	GEOLA LTEE	
EXECUTED BY:	J. Demers Feb. 1996	PROJECT:
INTERPRETED BY:	L. Plante M.Sc. Feb. 1996	PORCUPINE GOLD MINES
DRAWN BY:	J. Proulx Tech. Feb. 1996	McArthur Twp., Ont.
APPROVED BY:		LAT: 48° 12' 00" LONG: 81° 17' 00"
REVISED BY:		SCALE 1:2500
PLAN No: 96-788	N.T.S. : 42A/03	0 25 50 75 100 Metres

