

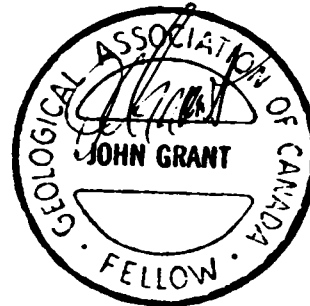


42A06NW0034 2.16222 DELORO

010

**GEOPHYSICAL REPORT  
FOR  
OUTOKUMPU MINES LIMITED  
ON THE  
DELORO PROPERTY, GRID A  
DELORO TOWNSHIP  
PORCUPINE MINING DIVISION**

**PREPARED BY: John C. Grant CET FGAC  
July 1995**



**2.16222**





42A06NW0034 2.16222 DELORO

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## INTRODUCTION

The services of Exsics Exploration Limited were retained by Outokumpu Mines Limited to complete a linecutting and ground geophysical program over a group of claims located in the central section of Deloro Township of the Porcupine Mining District of Northeastern Ontario. Figure 1.

The purpose of the program was to locate and outline conductive structure which would be considered favourable horizons for base metal deposition.

The linecutting portion of the program was completed between June 2 and 13, 1995. The geophysics was completed between July 6 and 8, 1995.

This report will deal with the results of the geophysical program.

## PROPERTY LOCATION AND ACCESS

Grid A of the Outokumpu properties in Deloro is situated in the Central section of the Township which is located in the Porcupine Mining Division, District of Cochrane. More specifically the grid is located southeast of McKay Lake and northwest of Shaw Creek. Figures 1 and 2. The entire grid is located approximately 12-15 kilometers south-southeast of the City of Timmins.

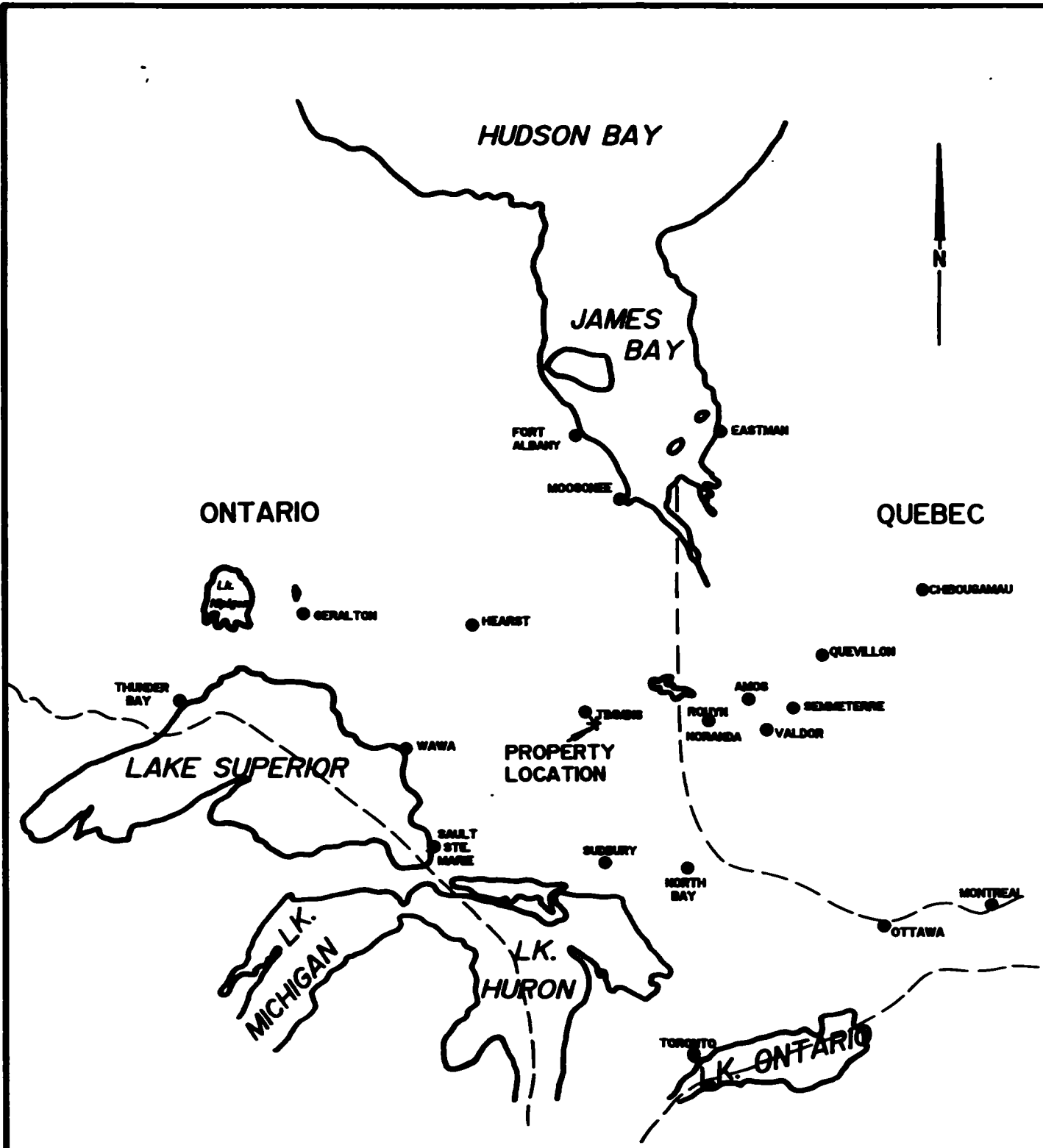
Access to the property during the survey period is relatively easy. The back road from Timmins to South Porcupine provides paved access to the Buffalo Ankerite Mine and Townsite. A good gravel road south from this townsite provides access to the south end of McKay Lake. A narrow ATV dirt road travels south-southeast from McKay Lake and provides access to BL4000ME/6760MN of the survey grid.


## CLAIM GROUP

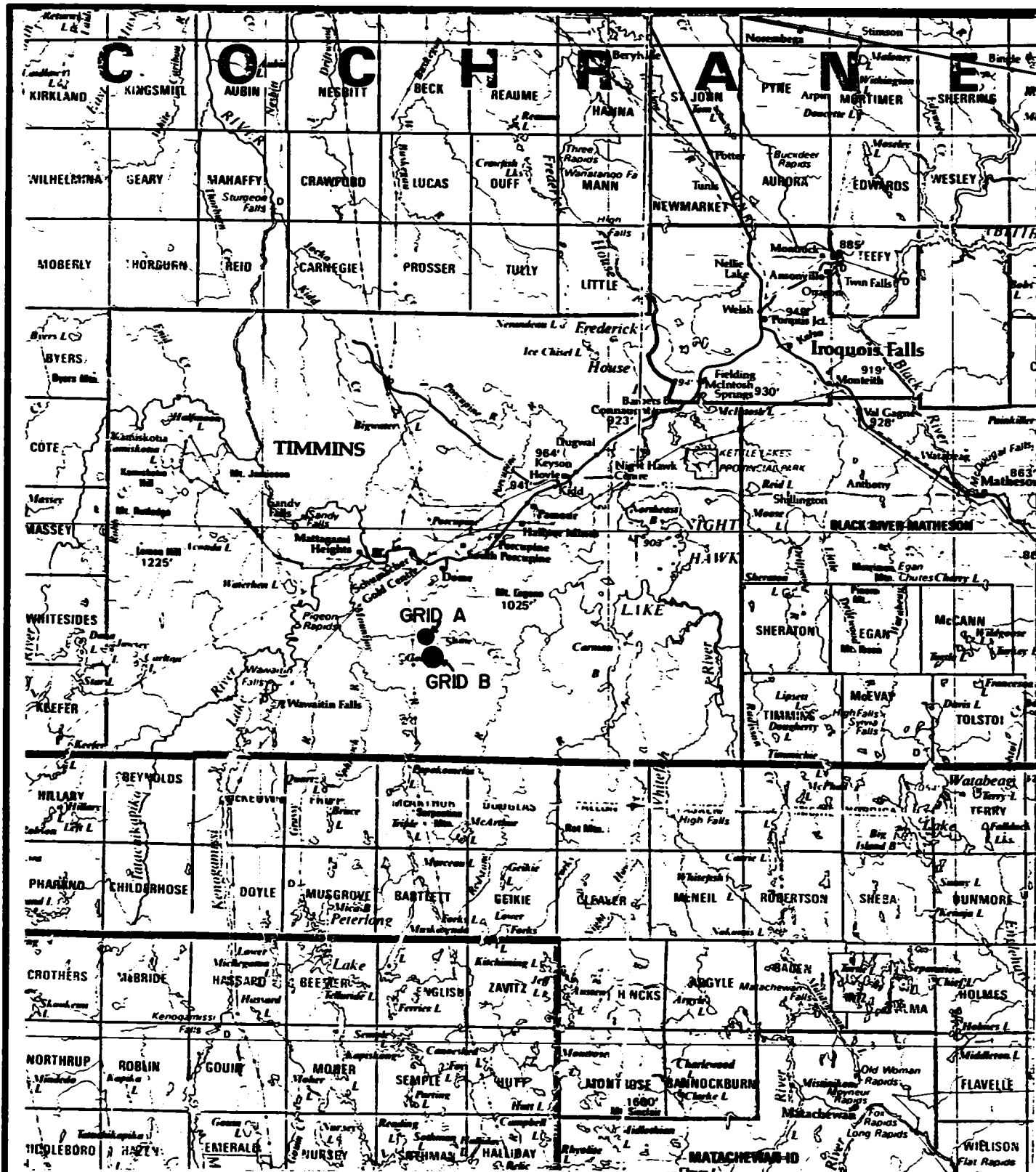
The three claim numbers which make up Grid A are as follows:

P-1204593	1 unit
P-1204594	8 units
P-1204596	1 unit

Refer to Figure 3, Copied from MNDM Plan Map G-3993, Deloro Township.



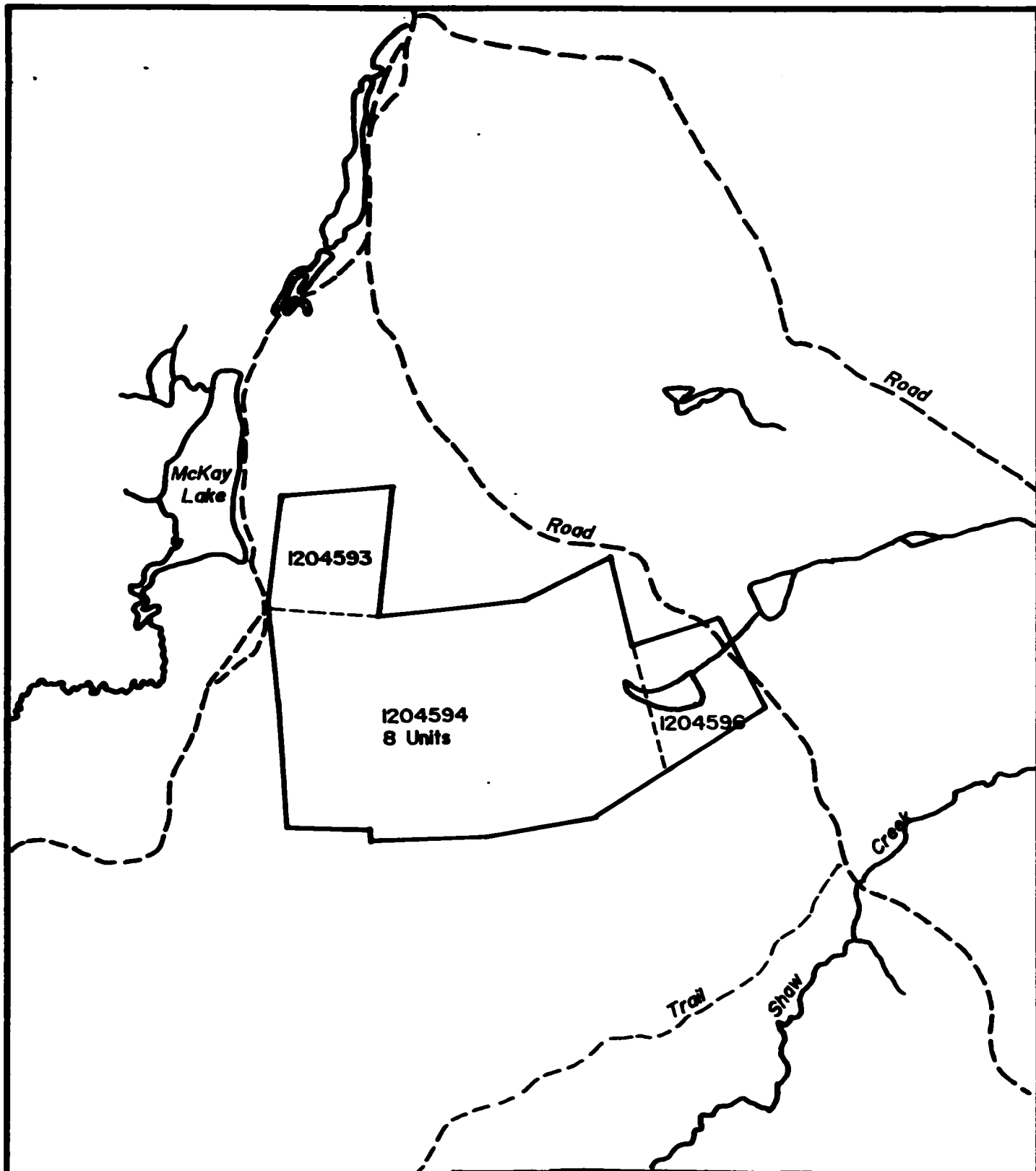
			<b>EXSICS EXPLORATION LTD:</b> P.O. Box 1000, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
			<b>CLIENT: OUTOKUMPU MINES LIMITED</b>		
<b>PROPERTY: DELORO TOWNSHIP</b>			<b>TITLE:</b>		
<b>LOCATION MAP</b>			Fig. 1		
<b>Date: July 1995</b>		<b>Scale: 1"=125miles</b>		<b>MNDM Plan#:</b>	
<b>Drawn: P. Gauthier</b>		<b>Interp: J.C. Grant</b>		<b>Job No. E-114</b>	



**EXSICS EXPLORATION LTD.**

P.O. Box 1000, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-451

<b>CLIENT: OUTOKUMPU MINES LIMITED</b>		
<b>PROPERTY: DELORO TOWNSHIP</b>		
<b>TITLE: PROPERTY LOCATION</b>		
Fig. 2		
Date: July 1995	Scale: 1:600,000	MNDM Plan#:
Drawn:	Interp: J.C. Grant	Job No. E-114



**EXSICS EXPLORATION LTD.**

P.O. Box 1000, P40-7X1  
 Suite 13, Hallinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151

**CLIENT: OUTOKUMPU MINES LIMITED**

**PROPERTY: DELORO TOWNSHIP**

**TITLE: GRID A**

**CLAIM SKETCH**

Fig. 3

Date: July 1995

Scale: 1:20,000

MMDM Plan#: G-3993

Drawn: P. Gauthier

Interp: J.C. Grant

Job No. E-114

### PERSONNEL

The field crew directly responsible for collecting the raw data were as follows:

J. C. Grant	-Timmins, Ontario
P. Gauthier	-Timmins, Ontario
Rob Mathieu	-Timmins, Ontario
Richard Mathieu	-Timmins, Ontario
Todd Mathieu	-Timmins, Ontario

The plotting and computer compilation was completed by P. Gauthier. The entire program was completed under the direct supervision of J. C. Grant.

### LINECUTTING PROGRAM

A detailed metric grid was first established across the property by first establishing a series of tielines which were cut north-south across the property at 400 meter intervals. Cross lines were then turned off of the 4000ME Baseline at 100 meter intervals and cut to the eastern limits of the property. All cut lines were chained with 20 meter pickets that were metal tagged.

### GEOPHYSICAL PROGRAM

This program consisted of a Total Field Magnetic Survey, done in conjunction with an HLEM Survey. The magnetic Survey was completed over all of the cutlines where as the HLEM Survey was completed over the cross lines only.

### MAGNETIC SURVEY

This survey was completed using the BRGM OMNI IV System. Specifications for these units can be found as Appendix A of this report. The following parameters were kept constant throughout the survey period.

Linespacing	-100 meters
Reading interval	-20 meters
Duurnal Correction	-Base Station Recorder
Base Record Interval	-30 second interval
Reference Field	-59,000 gammas
Datum Subtraction	-58,000 gammas
Unit Accuracy	- +/- 0.5 gammas

The collected, corrected and level data was then plotted onto a mylar base map at a scale of 1:5000. The data was then contoured at 20 gammas where possible. A copy of this contoured map is included in the back pocket of this report.

## HLEM SURVEY

This survey was completed using the Apex Parametrics MaxMin II System. Specifications for this system can be found as Appendix B of this report. The following parameters were kept constant throughout the survey.

Linespacing	-100 meter
Reading Interval	-20 meter
Coil Separation	-100 meters
Theoretical Search Depth	-50-60 meters
Frequencies Read	-1777Hz, 444Hz
Unit Accuracy	- +/- 0.5%
Parameters Measured	-inphase and quadrature components of the secondary field.

The collected data was then plotted directly onto a mylar base map, one map for each frequency, at a scale of 1:5000. The data was then profiled at 1 cm to +/- 20%. Any and all conductive axis were put directly onto the map and interpreted, line to line, if possible. A copy of each frequency has been included in the back pocket of this report.

## SURVEY RESULTS

The HLEM Survey appeared to have outlined two weak questionable zones across the northwest and south central section of the survey grid.

The first zone, called A, strikes approximately north-south across lines 7700MN to 7300MN. The conductor axis lies along the west flank of a moderate magnetic high unit which may represent a minor sulphide stringer within the andesitic unit.

The second conductive zone represents a questionable response at best. It strikes across lines 7000MN to 6700MN. It lies within an area of strong magnetic activity which probably relates to the underlying ultramafic intrusive units. Again the zone may relate to minor sulphide stringers.

The magnetics across the property generally match the expected geology. The area of strong magnetic activity between lines 7300MN/4550MN and lines 6800MN generally relates to a mapped ultramafic intrusive which covers most of the central and east section of the grid.

The moderate magnetic signature between lines 7800MN and 7300MN and lines 6700MN and 6600MN generally relates to the mafic to intermediate volcanics.



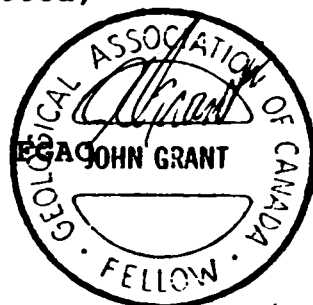
## CONCLUSIONS AND RECOMMENDATIONS

The HLEM Survey appears to have outlined two areas of interest. These being the location of Zones A and B. Both targets are extremely weak or deeper than the present survey coverage. A follow-up geological or geochemical survey may help in explaining these zones. There is evidence of old trenching to the north and on strike with Zone B which may help define its source.

Should follow-up geophysics be contemplated, then a moving coil PEM Survey may enhance both targets. The PEM survey is an HLEM system which uses a larger transmit coil for deeper penetration using similar coil separations as the MaxMin System. The PEM system is not affected by topography or coil separation errors and reads a wider frequency range which generally aids in definite conductor characteristics.

Respectfully Submitted,

John C. Grant, CET

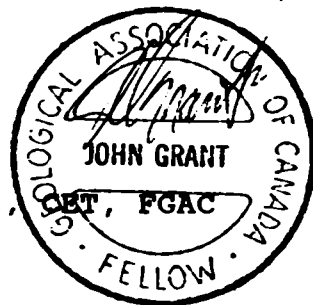


CERTIFICATE

I, John C. Grant, hereby certify that:

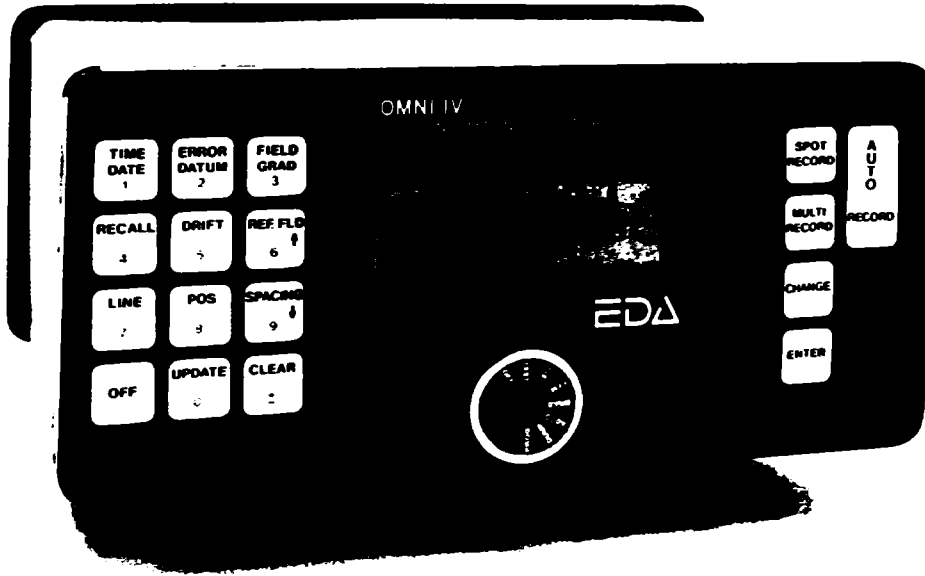
- 1) I am a graduate geophysicist (1975) of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology, Sudbury, Campus. I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited (5 years), North Bay office, and as Exploration Manager and Geophysicist for Exsics Exploration Limited from 1980 to present.
- 2) I am a Member of the Certified Engineering Technologist Association since 1984.
- 3) I am a member of the Geological Association of Canada.
- 4) I have been actively engaged in my profession for the last twenty (20) years, including all aspects of exploration studies, surveys and interpretations.
- 5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist. for property appraisal.

John Charles Grant,



**APPENDIX A**

# OMNI IV "Tie-Line" Magnetometer



- Four Magnetometers in One**
- Self Correcting for Diurnal Variations**
- Reduced Instrumentation Requirements**
- 25% Weight Reduction**
- User Friendly Keypad Operation**
- Universal Computer Interface**
- Comprehensive Software Packages**



## Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	$\pm 15\%$ relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	$\pm 0.02$ gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	$\pm 1$ gamma at 50,000 gammas at 23°C $\pm 2$ gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from $-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ . The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	$-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ ; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5 m separation - standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0 m separation - optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

E D A Instruments Inc.  
4 Thorncliffe Park Drive  
Toronto, Ontario  
Canada M4H 1H1  
Telex: 06 23222 EDA TOR  
Cable: Instruments Toronto  
(416) 425 7800

In U.S.A.  
E D A Instruments Inc.  
5151 Ward Road  
Wheat Ridge, Colorado  
U.S.A. 80033  
(303) 422 9112

Printed in Canada

**APPENDIX B**

# DEX MAGNETIC

**Five frequencies: 222, 444, 888, 1777 and 3555 Hz.**

**Maximum coupled (horizontal-loop) operation with reference cable.**

**Minimum coupled operation with reference cable.**

**Vertical-loop operation without reference cable.**

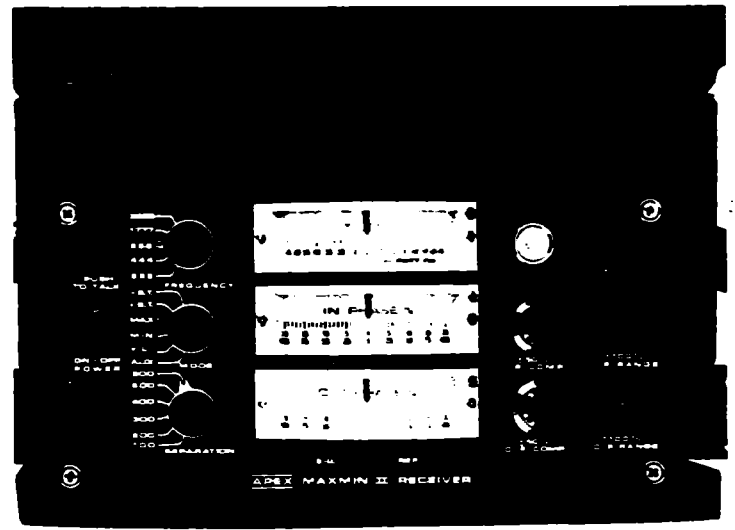
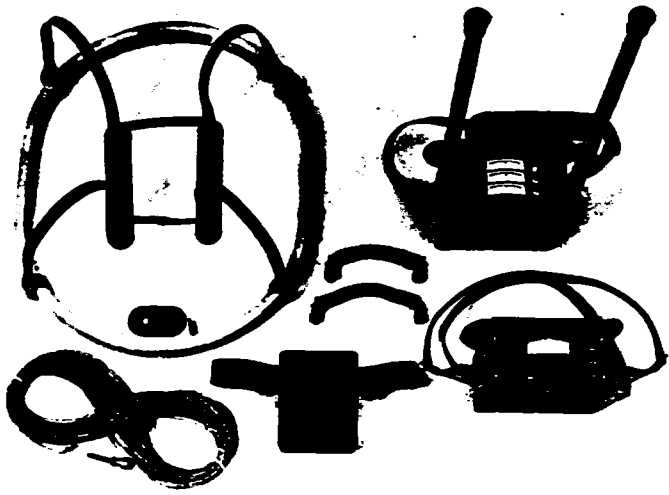
**Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.**

**Reliable data from depths of up to 180m (600 ft).**

**Built-in voice communication circuitry with cable.**

**Tilt meters to control coil orientation.**





222, 444, 888, 1777 and 3555 Hz.

**MAX:** Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.

**MIN:** Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.

**V.L. :** Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

25, 50, 100, 150, 200 & 250m (MMID) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).

Coil separations in V.L. mode not restricted to fixed values.

- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.

- Tilt angle and null in 90mm edgewise meters in V.L. mode.

**In-Phase:**  $\pm 20\%$ ,  $\pm 100\%$  by push-button switch.

**Quadrature:**  $\pm 20\%$ ,  $\pm 100\%$  by push-button switch.

**Tilt:**  $\pm 75\%$  slope.

**Null (V.L.):** Sensitivity adjustable by separation switch.

**In-Phase and Quadrature:** 0.25% to 0.5% ; **Tilt:** 1%.

$\pm 0.25\%$  to  $\pm 1\%$  normally, depending on conditions, frequencies and coil separation used.

- 222Hz : 220 Atm<sup>2</sup>
- 444Hz : 200 Atm<sup>2</sup>
- 888Hz : 120 Atm<sup>2</sup>
- 1777Hz : 60 Atm<sup>2</sup>
- 3555Hz : 30 Atm<sup>2</sup>

9V trans. radio type batteries (4). Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

12V 6Ah Gel-type rechargeable battery. (Charger supplied).

Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

Built-in signal and reference warning lights to indicate erroneous readings.

-40°C to +60°C (-40°F to +140°F).

6kg (13 lbs.)

13kg (29 lbs.)

Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification

200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

Phone: (416) 495-1612

Cables: APEXPARA TORONTO

Telex: 06-966773 NORDVIK TOR





# Report of Work Conducted After Recording Claim

## Mining Act

Transaction Number  
**W 9560.00325**  
**2.1.1.2**

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, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

**2.1622**

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



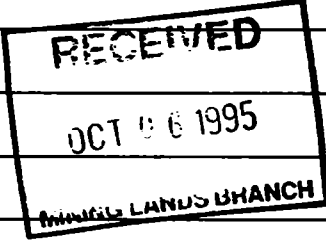
42A08NW0034 2.16222 DELORO

900

Recorded Holder(s) <i>Outokumpu Mines Ltd.</i>		Client No. <i>178525</i>
Address <i>P.O. Box 1123, Suite 30a, 637 Algonquin Blvd E, Timmins, Ont., P4N 7H9</i>		Telephone No. <i>(705) 264-5024</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Deloro Township</i>	M or G Plan No. <i>G-3993</i>
Date Work Performed From: <i>June 2, 1995</i>		To: <i>July 8, 1995</i>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<i>Line cutting, Magnetometer Survey, Max-Min (HLEM) Survey</i>
<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	



Total Assessment Work Claimed on the Attached Statement of Costs \$ *7,512<sup>00</sup>*

**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
<i>John L. Grant Esis Exploration Limited</i>	<i>P.O. Box 1800, Timmins, Ontario P4N 7X1</i>

(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 <i>July 24, 1995</i>	Recorded Holder or Agent (Signature) <i>Paul</i>
--	------------------------------	---

**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 <i>Paul Davis, Outokumpu Mines Ltd., P.O. Box 1123, Timmins, Ontario, P4N 7H9</i>		
Telephone No. <i>(705) 264-5024</i>	Date <i>July 24, 1995</i>	Certified By (Signature) <i>Paul</i>

**For Office Use Only**

Total Value Cr. Recorded <i>7,512</i>	Date Recorded	Mining Recorder <i>Yvonne White</i>	Stamp <b>RECEIVED</b> <i>1 1995</i> <i>1600 COL</i> PORCUPINE MINING DIVISION
Deemed Approval Date <i>OCT. 30 1995</i>	Date Approved		
Date Notice for Amendments Sent			

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	P. 120 4593	1
	P. 120 4594	8
	P. 120 4596	1
<b>Total Number of Claims</b>		<b>3</b>

Value of Assessment Work Done on the Claim	Value Applied to this Claim
751.00	750.00
6000.00	6000.00
751.00	750.00
<b>Total Value Work Done</b>	
<b>7512.00</b>	<b>7500.00</b>

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
750.00	1.00
6000.00	10.00
750.00	1.00
<b>Total Assigned From</b>	
<b>7500.00</b>	<b>12.00</b>

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1:** Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

**Note 2:** If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---	-----------	------



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

W 9560.00325

2.16222

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) 670-7284.

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) 670-7284.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Line cutting	4,250 <sup>00</sup>	
	Geophysical Surveys	3,262 <sup>00</sup>	
			7,512 <sup>00</sup>
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>7,512<sup>00</sup></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		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>		<b>Valueur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</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
	× 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	Remise pour dépôt 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 Project Geologist 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 précis 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 <u>Paul</u>	Date July 24, 1995
--------------------------	-----------------------

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

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

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

Our File: 2.16222  
Transaction #W9560.00325

October 11, 1995

Mining Recorder  
Ministry of Northern Development & Mines  
60 Wilson Ave.  
Timmins, Ontario  
P4N 2S7

Dear Mr. White:

**SUBJECT: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
1204593 ET AL. IN DELORO TOWNSHIP**

Assessment work credits have been approved as outlined on the attached sheet for this submission. **Note:** the credits have been distributed to better reflect the value of work submitted. The credits have been approved under Section 14, Geophysics(MAG,EM), Mining Act Regulations.

The approval date is **October 11, 1995**. Please indicate this approval on the claim record sheets.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705) 670-5856.

Yours sincerely,



Ron Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

BIG/

cc: Resident Geologist  
Timmins, Ontario

Assessment Files Library  
Sudbury, Ontario



**MAP SYMBOLOLOGY**

Aerial Cableway	Pipeline (lease mineral)
Boundary	Railroad
International	Single Track
District, Township	Double Track
Indian Reserve	Abandoned
Approximate	Turntable
Lease, Concession	Road
Approximate	Highway, County
Park Boundary	Turntable
Bridge	Access (road of doubtful maintenance, or abandoned driveway)
Road, Railroad	Trail, Bush Road (portage ways)
Building	Rapids
Chimney	Double line river with multiple rapids
Climb, Pit, Pile	Reservoir
Contours	River, Stream, Canal
Interpreted	Approximate
Depression	Structure (dam)
Control Points	Approximate
Horizontal	Location of flow
Vertical	Lock
Culvert	Spot Elevation (from spot)
Falls	Tower
Double line river	Transmission Line
Fence, Hedge, Wall	Pipes
Feature Outline (Construction features, etc.)	Tunnel
Flooded Land	Utility Poles
Lock	Wharf, Dock, Pier
Marsh or Swamp	Wooded Area
Mine Head Frame	
Outcrop	

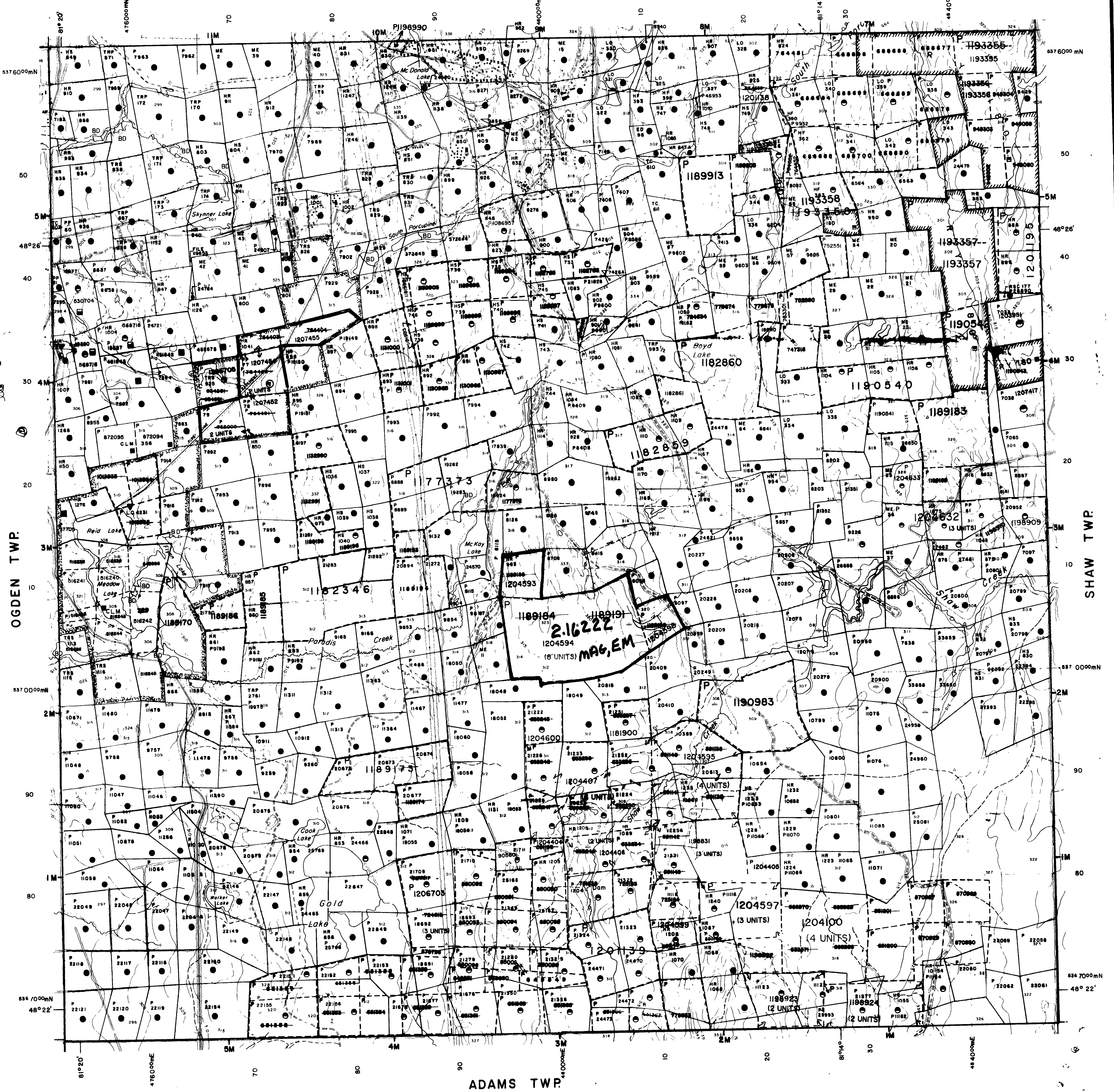
**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY			
S.R.O. - SURFACE RIGHTS ONLY			
M.S. - MINING AND SURFACE RIGHTS			
Order No.	Date	Disposition	File

W-18 (REVISED 1984) (APPLICATION UNDER THE PUBLIC LANDS ACT FOR A WASTE DISPOSAL SITE)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND 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

**TISDALE TWP.**



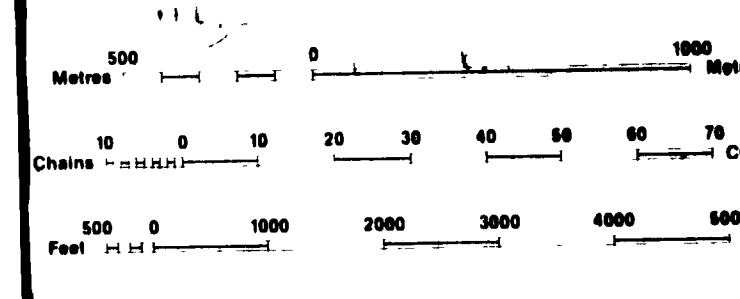
**LEGEND**

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE 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 SHORELINE	
MARSH OR MUSKEG	
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-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 320, SEC. 63, SUBSECTION 1



SCALE 1:20 000  
GRID ZONE 17

**NOTES**

- REGISTERED PLAN OF SUBDIVISION
- MINING CLAIMS SHOWN WITHIN THIS AREA ARE SUBJECT TO THE RIGHTS AND PRIVILEGES GRANTED TO DELNITE MINES LTD. UNDER AN EASEMENT ORDER DATED MAY 19, 1957.
- DOMESTIC MINES, LIMITED SURFACE RIGHTS LEASE #103926

**ISSUE**

1 OCT 05 1995

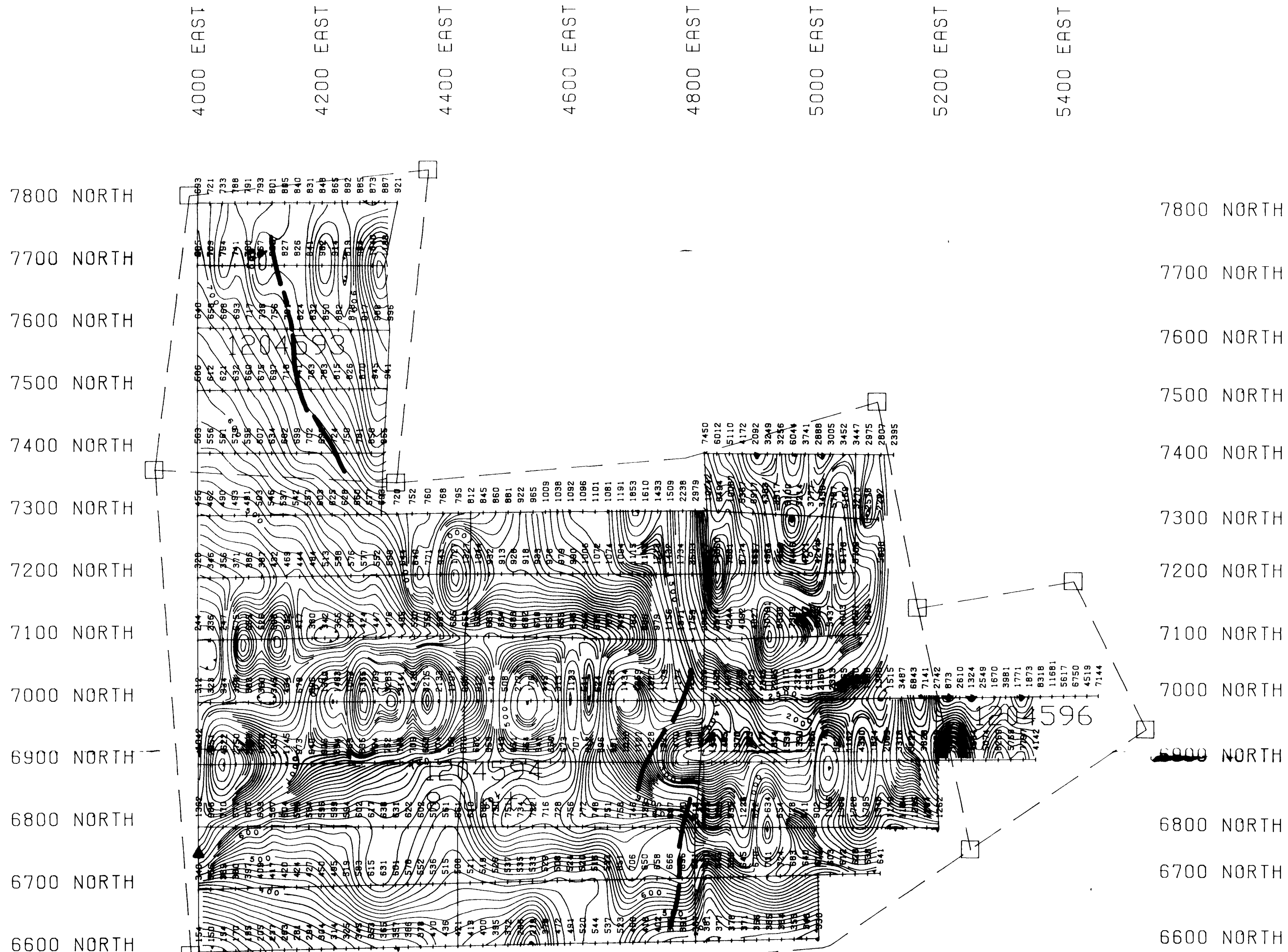
TOWNSHIP  
**DELORO**  
M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**COCHRANE**

Ontario Ministry of Natural Resources Land Management Branch  
ACTIVATED NOV 24/93 BY: D.C.

ORIGINAL COMPILATION JULY 1984  
REVISED CHECKED BY: ARW  
Number  
**G-3993**





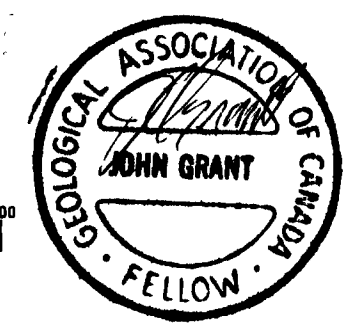
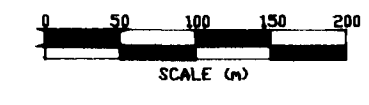



210

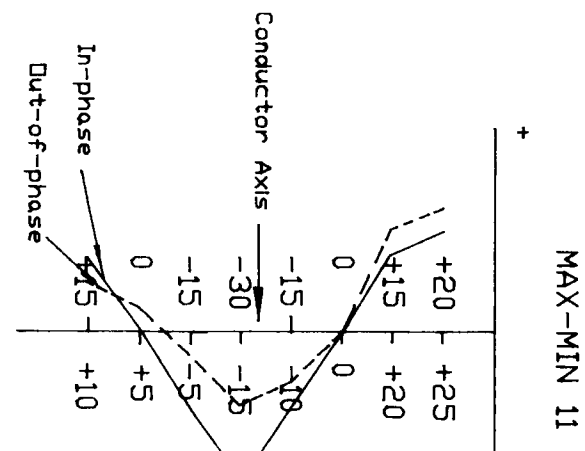
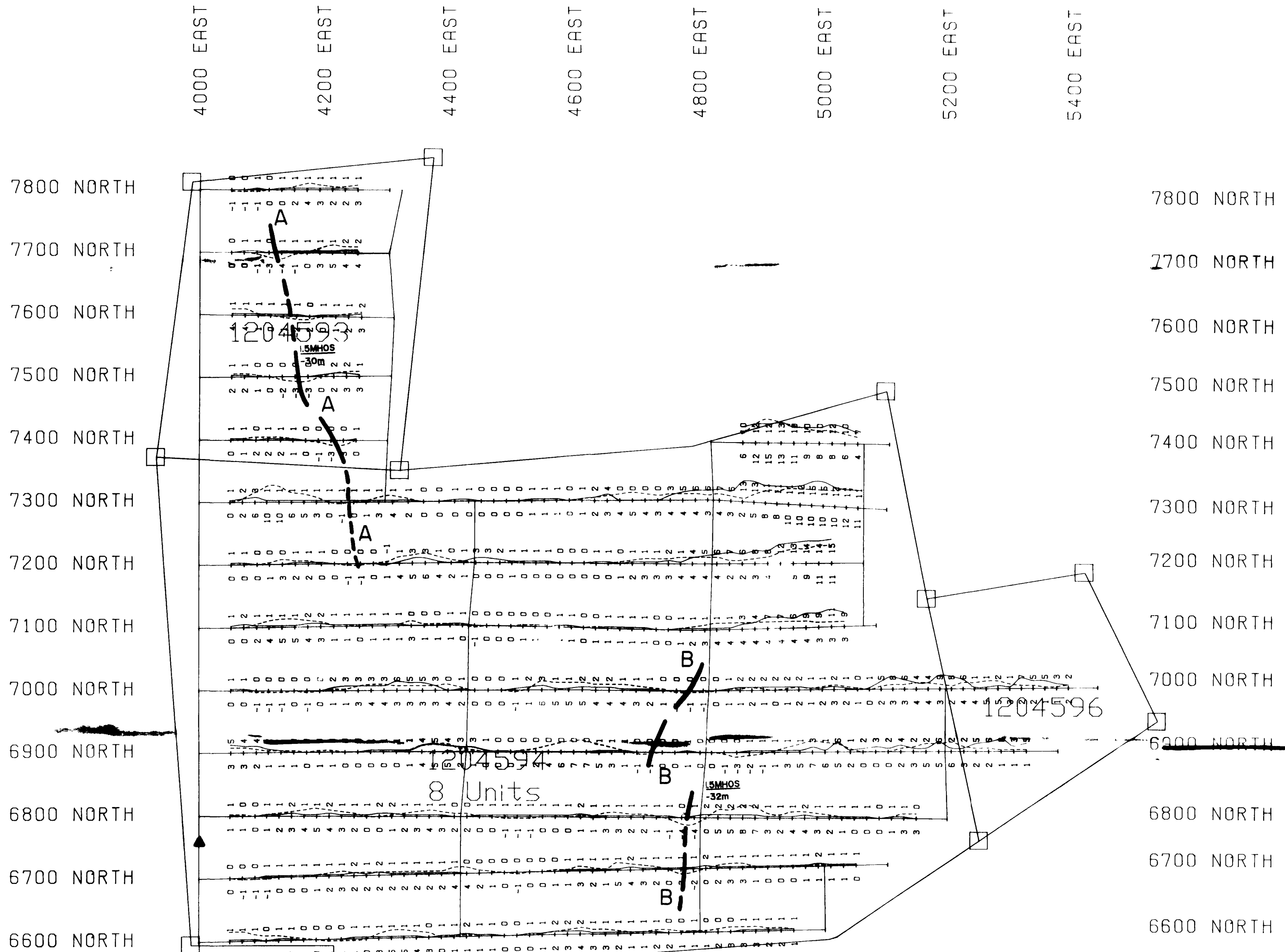
**LEGEND**

Instrument: EDA DMNI-1V  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 1 nano-teslas  
 Diurnals: Corrected by base station recorder  
 Contour Interval: 0,20,40,60,80,100,.....  
 Reference Field: 59,000 gammas  
 Datum Subtracted: 58,000 gammas  
 ▲ GRID A Base Station Location

2-16222



 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151			
			CLIENT: <b>OUTOKUMPU MINES LIMITED</b> PROPERTY: <b>DELORO TOWNSHIP</b> TITLE: <b>GRID A</b> <b>MAGNETOMETER SURVEY</b>
Date: <b>July 1995</b>	Scale: <b>1:5000</b>	NTS:	
Drawn: <b>P.Gauthier</b>	Interp: <b>J.C.Grant</b>	Job No.: <b>E-114</b>	



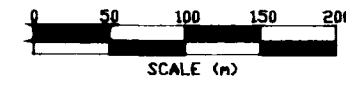
**LEGEND**

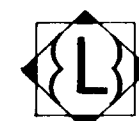
Instrument: Apex Parametrics Max-Min 11  
 Mode: Maximum Coupled, Horizontal Loop Survey  
 Parameters Measured: Inphase (%)  
 Out of phase (%)

Frequency: 1777 Hz  
 Coil Separation: 100m  
 Operator: R. & R. Mathieu  
 Profile Scale: 1cm=+/-20%

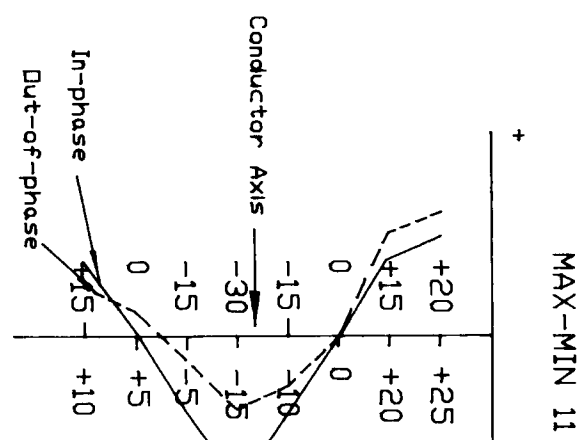
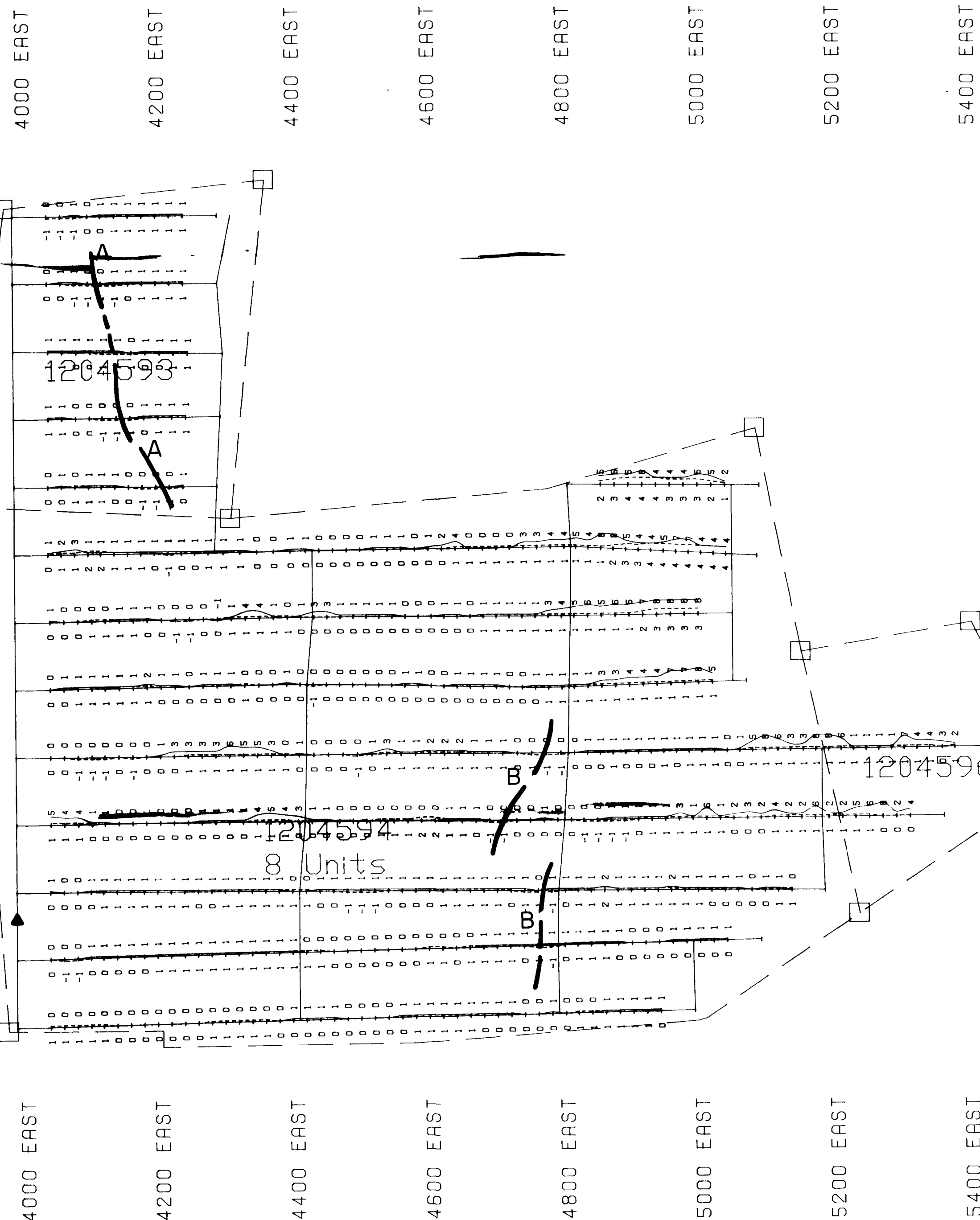
▲ GRID A Base Station Location

2.16222



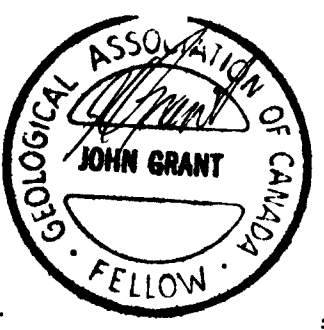
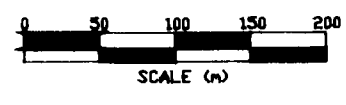
 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont Telephone: 705-287-4151		
CLIENT: <b>OUTOKUMPU MINES LIMITED</b>		
PROPERTY: <b>DELORO TOWNSHIP</b>		
TITLE: <b>GRID A</b>		
<b>MAX-MIN 11 1777 Hz</b>		
Date: July 1995	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-114






**LEGEND**  
 Instrument: Apex Parametrics Max-Min 11  
 Mode: Maximum Coupled, Horizontal Loop Survey  
 Parameters Measured: Inphase (%)  
 Out of phase (%)  
 Frequency: 444 Hz  
 Coil Separation: 100m  
 Operator: R. & R. Mathieu  
 Profile Scale: 1cm=+/-20%  
 ▲ GRID A Base Station Location

2.16222



 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
PROPERTY: <b>DELORO TOWNSHIP</b>		
TITLE: <b>GRID A</b> <b>MAX-MIN 11 444 Hz</b>		
Date: July 1995	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-114

