



VAL D'OR
GÉOPHYSICAL



41010NE0561 2.13563 CUNNINGHAM

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2.13563

MAGNETIC SURVEY
property of
COMINCO LIMITED
SHUN CLAIM GROUP Project
Cunningham township
Ontario province
August 1990

G. Lambert R. Turcotte



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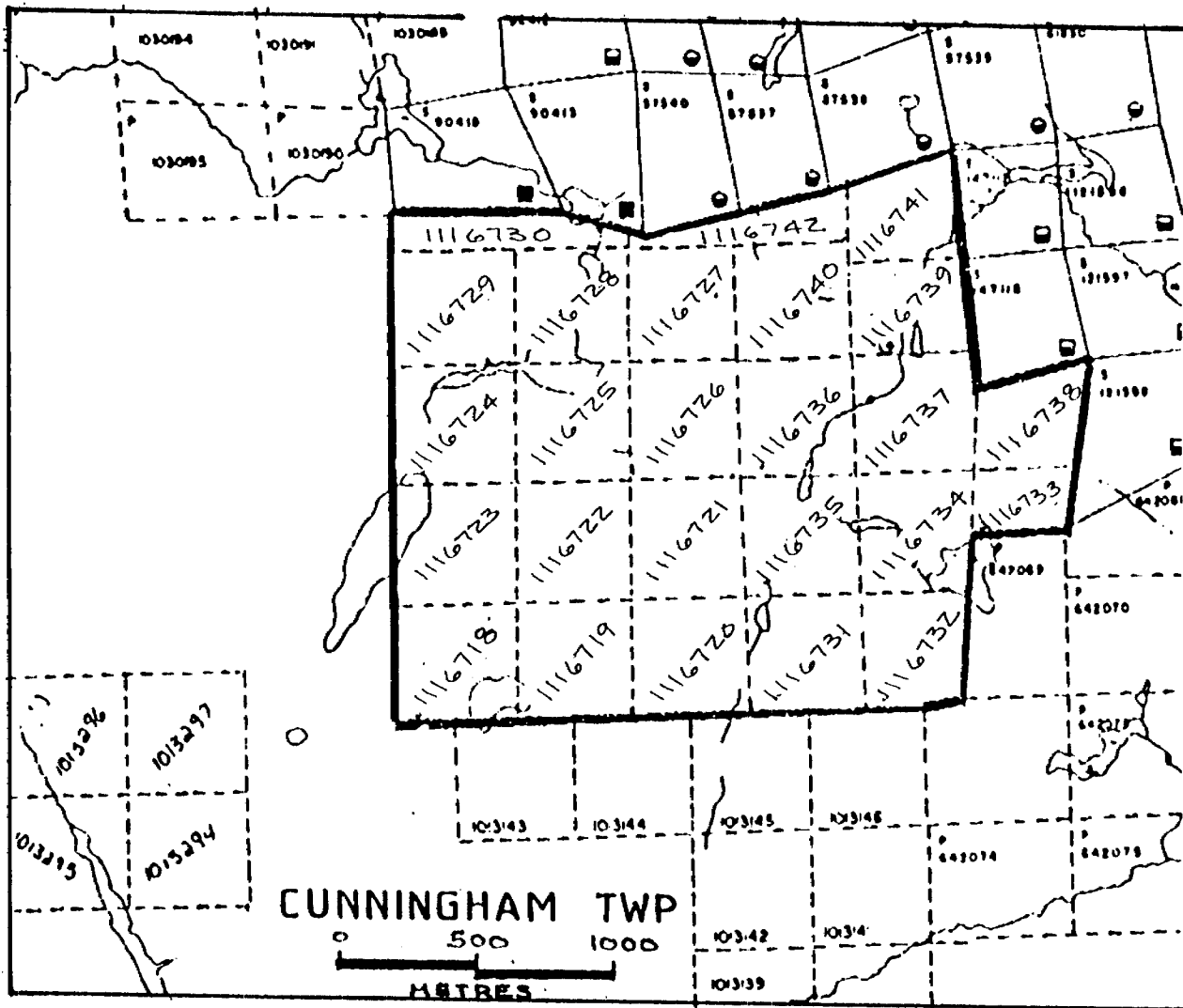
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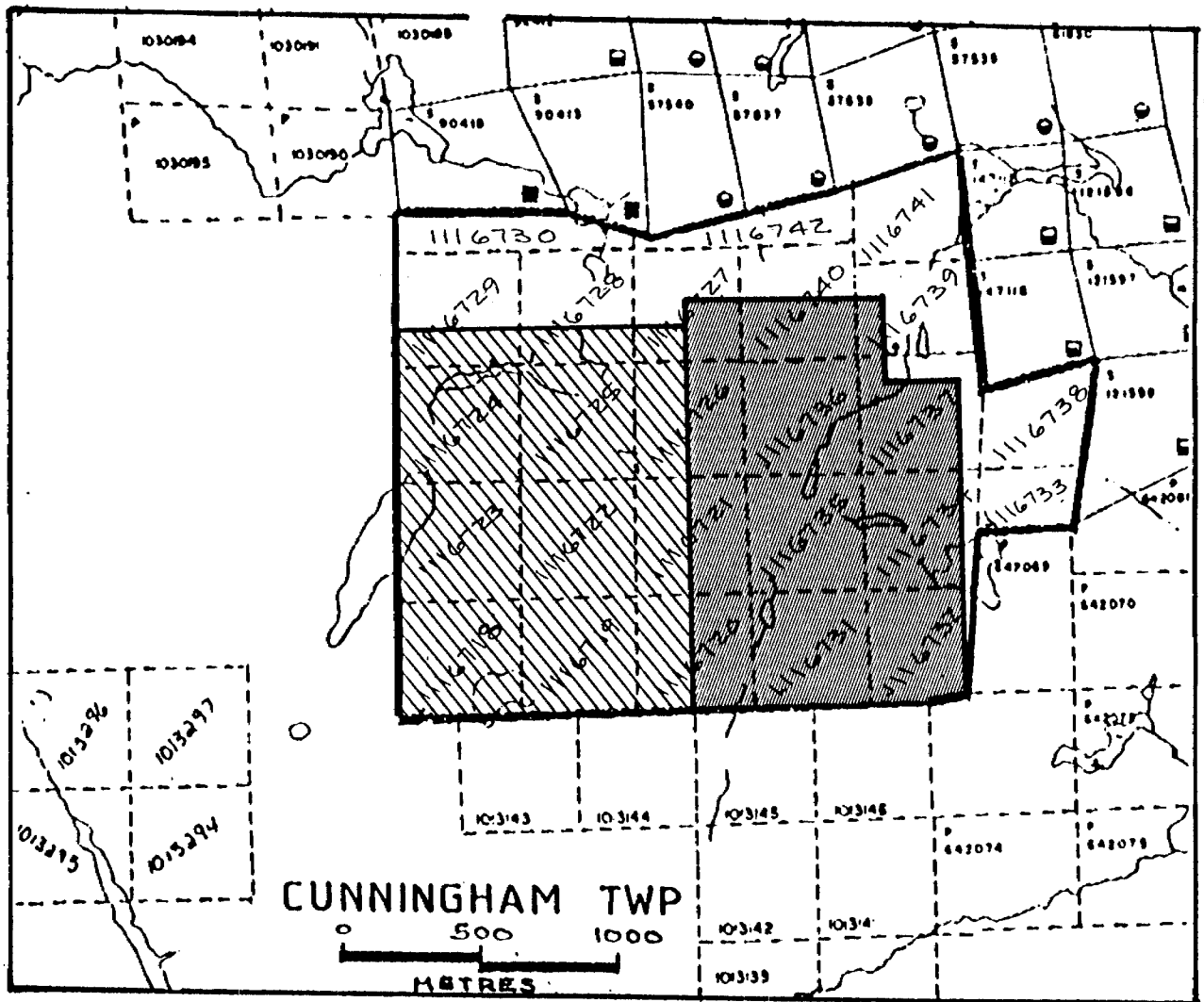
<u>DRAWING NO.</u>	<u>MAGNETIC SURVEY</u>
1.1	Total field contours
1.2	Total field and gradient profiles

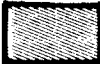





COMINCO LIMITED
SHUN CLAIM GROUP Project
Figure #1 : Index of claims





-  Surveyed in April 1990
-  Surveyed in July 1990

COMINCO LIMITED
SHUN CLAIM GROUP Project
Figure #2 : Area surveyed



INTRODUCTION

In July 1990, a complementary magnetic survey was carried out on a property owned by COMINCO LIMITED, (SHUN CLAIM GROUP Project), in Cunningham township, Chapleau area, province of Ontario.

The survey was designed to locate structures favorable for gold or base metal deposition.

PROPERTY, LOCATION AND ACCESS

The property is located approximately 28 kms South-East of the town of Chapleau, in Cunningham township, Chapleau area, province of Ontario.

The property is easily accessible by logging roads which can be taken from the Chapleau - Sultan highway.

The property claims have been registered with the Ontario Department of Natural Resources and the numbers are presented on the fig. #1 of this report.

GEOPHYSICAL WORK

A total magnetic field and gradient survey was carried out on part of the property between July 1st to 5th, 1990.

A total of 14.4 kms was covered by the magnetic survey using the EDA OMNI-PLUS proton precession instruments.



SURVEY SPECIFICATIONS

The magnetic survey was carried out along a network of North - South picket line cut at 100 metres intervals. The lines were chained and stations marked at 25 metres intervals.

The magnetic readings were taken with a proton precession magnetometer recording simultaneously the value of the total magnetic field and the measurement of the vertical gradient, with a precision of 0.1 gamma and 0.1 gamma/metre respectively. The separation between the sensors was 0.5 metre and the height of the upper sensor was 3.2 metres above the ground. The readings were taken systematically every 12.5 metres with detail every 6.25 metres in the anomalous areas.

A base station magnetometer measuring the variation of the total magnetic field at 20 seconds intervals was used as a reference for correction of the diurnal variation.

RESULTS AND INTERPRETATION

The magnetic survey has mapped the Northwestern extension of most magnetic units which had been previously mapped in the East. There appears to be somewhat more continuity along strike than in the Eastern sector. Two main groups of magnetic horizons were outlined, all striking NW-SE. The general wavelength of the profiles suggest fairly shallow sources and the irregular amplitudes indicate that the causative horizons vary in thickness and/or in magnetite concentration.

The background lithologies probably consist of low susceptibility felsics or sediments whereas the magnetic horizons could be related to gabbro sills or minor Iron Formations.



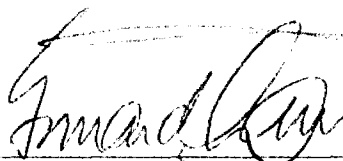
CONCLUSION AND RECOMMENDATIONS

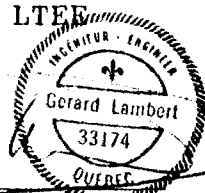
The complementary magnetic survey that was carried out on the Western half of the SHUN CLAIM GROUP project have resulted in the mapping of shallow units striking NW-SE.

The area should be checked in the field for mapping purposes and eventually additional geophysical techniques such as VLF-EM or I.P. should be applied in order to map electrical resistivity and mineral content variations.


Respectfully submitted,
VAL D'OR GEOPHYSIQUE LTEE

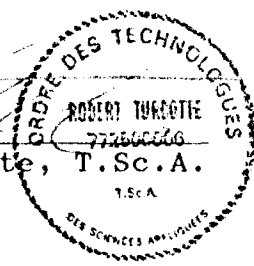
By :


Gérard Lambert, B.Sc.A., Ing.
Consulting Geophysicist



And by :


Robert Turcotte, T.Sc.A.





-4-

CERTIFICATE

I, undersigned, Gérard Lambert, P. Eng., certify that:

I reside at 679 Murdoch ave, Rouyn-Noranda, Quebec, since 1983.

I am a graduate of Université Laval, Quebec where I have obtained a B.Sc.A. in Geological engineering in 1978.

I have been engaged in Exploration Geophysics since 1972 and have been practicing as a professional engineer since 1978.

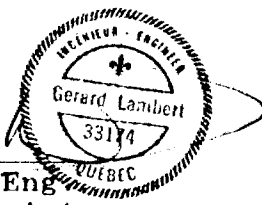
I am a member of the Ordre des Ingénieur du Québec since 1978.

I am a member of the Quebec Prospector Association, the Prospector & Developers Association of Canada, the Society of Exploration Geophysicist, the European Association of Exploration Geophysicists and the Canadian Institute of Mining & Metallurgy.

This report is based on the information contained in the survey described. The interpretation of the data was made using methods known in the literature and based on my personal experience.

I have not received, nor do I expect to receive directly or indirectly any interest in the claims that belong to COMINCO LIMITED.

Rouyn-Noranda, this August 24, 1990.



Gérard Lambert, P. Eng.
Consulting Geophysicist

2.11295

CERTIFICATE

THIS IS TO CERTIFY THAT:

I am a resident of Val d'Or, province de Quebec, since 1977.

I am a technologist graduated from "Collège du Nord-Ouest", Rouyn, Quebec in 1977.

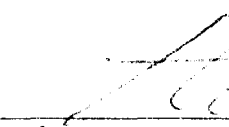
I have been actively engaged in geophysical exploration since 1977 and have acquired a wide range of experience in geophysical methods and techniques.

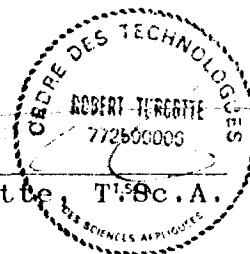
I am a member of "Corporation professionnelle des Technologues des Sciences Appliquées du Québec" and also a member of the Quebec prospectors association and of the Canadian Institute of Mining and Metallurgy.

I do not hold nor do I expect to receive an interest of any kind in these claims held by COMINCO LIMITED.

Signed in Val d'Or, this August 24, 1990.

By:


Robert Turcotte, T.Sc.A.





Ministry of Northern Development and Mines
Ontario

4162495 DOCUMENT NO. W 9006-60



41010NE0561 2.13563 CUNNINGHAM

900

Mining Act

Report of Work 2.13563
(Geophysical, Geological and Geochemical S

Type of Survey(s) MAG	Mining Division Porcupine	Township or Area Cunningham
Recorded Holder(s) Cominco Ltd.	2.13563	Prospector's Licence No. A-10043
Address 2200 - 120 Adelaide St. West, Toronto, Ontario	11/11 11/11	Telephone No. 869-1850
Survey Company Val D'or Geophysique - 50 Boulevard, Lamaque Val'dor Quebec	Date of Survey (from & to) Day 01 Mo 07 Yr 90 Day 05 Mo 07 Yr 90	
Name and Address of Author (of Geo-Technical Report) G. Lambert & R. Turcotte - As above		

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
Man Days Complete reverse side and enter total(s) here	Geological Geochemical	Days per Claim
	- Electromagnetic - Magnetometer - Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological Geochemical	Days per Claim
	Electromagnetic Magnetometer Other	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1116718	40			
P	1116719	40			
P	1116720	35 MAX			
P	1116721	35 MAX			
P	1116722				
P	1116723				
P	1116724	40			
P	1116725	40			
P	1116726	35 MAX			

RECORDED
SEP 28 1990

Total miles flown over claim(s).
Date **Sept. 20/90** Recorded Holder or Agent (Signature) *[Signature]*

Total number of mining claims covered by this report of work. **9**

Certification Verifying Report of Work

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

Name and Address of Person Certifying
R.C. LaRoche - C/O Cominco Ltd. 2200- 120 Adelaide St. W. Toronto Ontario

Telephone No. **416-869-1850** Date **Sept. 20/90** Certified By (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **345**

Date Recorded **SEPT. 28, 90**

Date Approved as Recorded **See revised work statement**

Mining Recorder *[Signature]*

Provincial Manager, Mining Lands

Received Stamp

RECEIVED
SEP 28 1990



Recorded Holder
Cominco Ltd.

Township or Area
Cunningham

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer <u>23.2</u> days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>P 1116718 to 726 incl.</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
SUDBURY, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

Your File: W9006.60495
Our File : 2.13563

January 22, 1991

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

Dear Madam/Sir:

RE: Notice of Intent dated December 19, 1990 for Geophysical
(Magnetometer) Survey submitted on Mining Claim P 1116718
et al in Cunningham Township.

The assessment work credits, as listed with the above
mentioned Notice of Intent have been approved as of the above
date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours sincerely

R. C. Gashinski
Provincial Manager, Mining Lands
Mines and Minerals Division

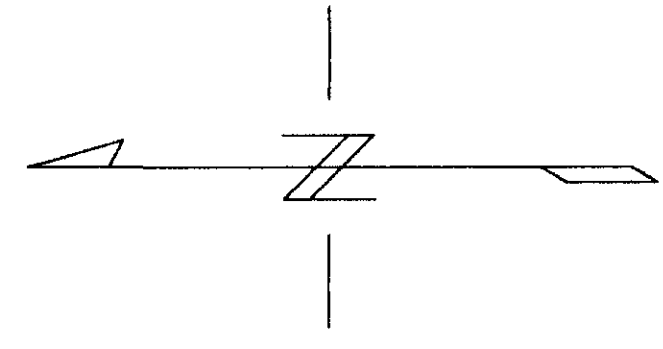
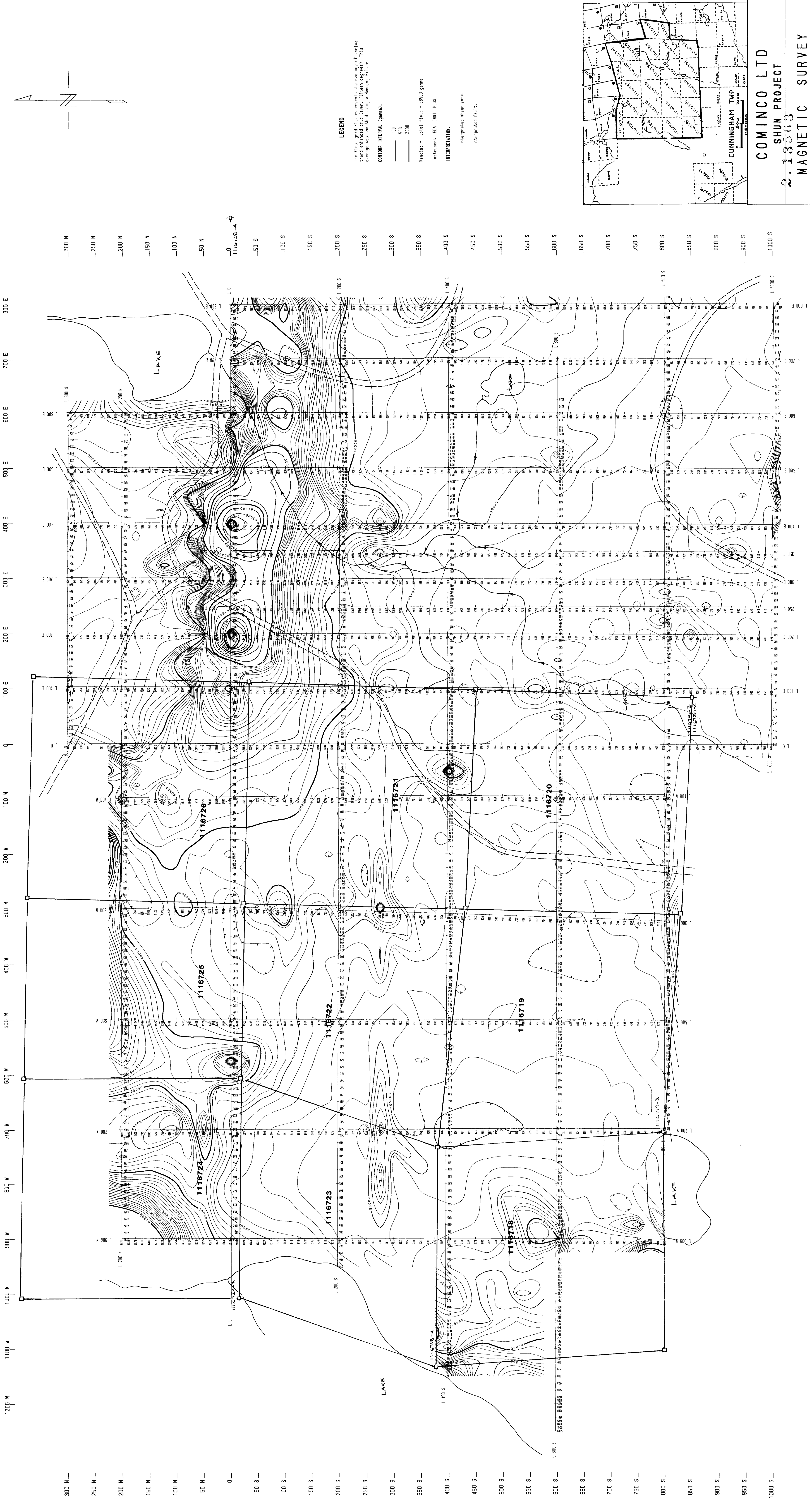
RJS
LJS/dvl
Enclosure

cc: Mr. W. D. Tieman
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Cominco Ltd.
Toronto, Ontario

G. Lambert/R. Turcotte
Val d'Or, Quebec



LEGEND

The final grid file represents the average of twelve magnetometer readings. The final grid file was averaged using a Hanning Filter.

CONTOUR INTERVAL (gauss)

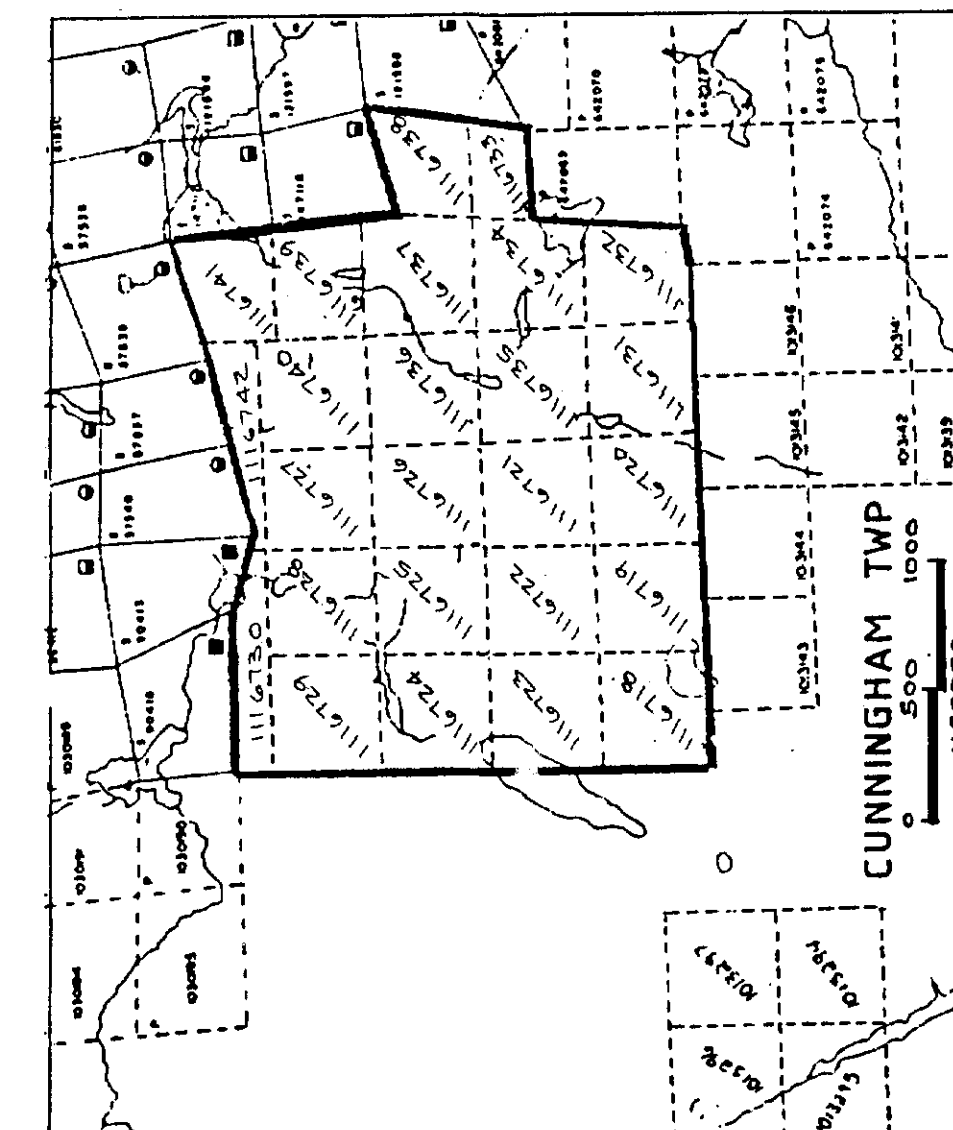
- 100
- 500
- 2000

Reading = Total Field - 58000 gauss

Instrument: EDA DMI PLUS

INTERPRETATION

- Interpreted shear zone.
- Interpreted fault.



**COMINCO LTD
SHUN PROJECT
MAGNETIC SURVEY
TOTAL FIELD CONTOUR**

VAL D'OR GEOPHYSIQUE LTEE
Interpreted by: G. Lebert P. Eng. Date 7/90

Scale 1:2500
Drawing no. 90-527-1.1
Map no.

