

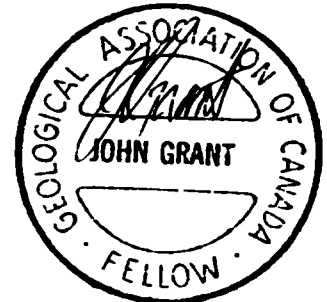
42A06NE0020 2.16089 CARMAN

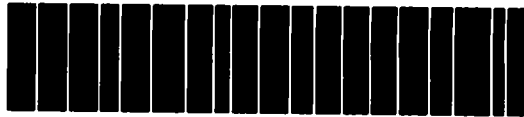
010

**GEOPHYSICAL REPORT
FOR
FALCONBRIDGE LIMITED
ON THE
CARMAN PROPERTY
CARMAN TOWNSHIP
PORCUPINE MINING DIVISION
TIMMINS, ONTARIO**

2.16089

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





42A06NE0020 2.16089 CARMAN

010C

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INTRODUCTION

Exsics Exploration Limited was retained by Falconbridge Limited to complete a Deep EM reconnaissance survey across selected lines of a grid which was cut during May and June of 1990.

The purpose of this survey was to test the property at depth, especially in the areas of high magnetic signature. These highs most probably relate to ultramafic units which may host economical nickel deposits.

Additional coverage with this survey method would be based on successful results of this reconnaissance survey.

PROPERTY LOCATION AND ACCESS

The property is located approximately 20 kilometers southeast of the City of Timmins in the Porcupine Mining Division. More specifically it is located in the west-southwest quadrant of Carman Township approximately 1300 meters east of the Township line between Carman and Shaw. Figure 1 and 2.

Access to the property was by way of a good gravel road which travels south-southeast from the Town of South Porcupine and is locally called the Langmuir road. This road is a well maintained gravel road and provides two wheel drive access to a secondary gravel road which runs east off of the Langmuir road and provides access to Marshal Minerals Carman Mine and Mill site. ATV travel, along a drill road, provides access to the southwest section of the survey area from the Mine and Mill site. Figure 2

CLAIM GROUP

The property consists of 7 unpatented mining claims numbered as follows:

P-1129603	P-1129604	P-1129605
P-1129606	P-1129607	P-1129608
P-1129609		

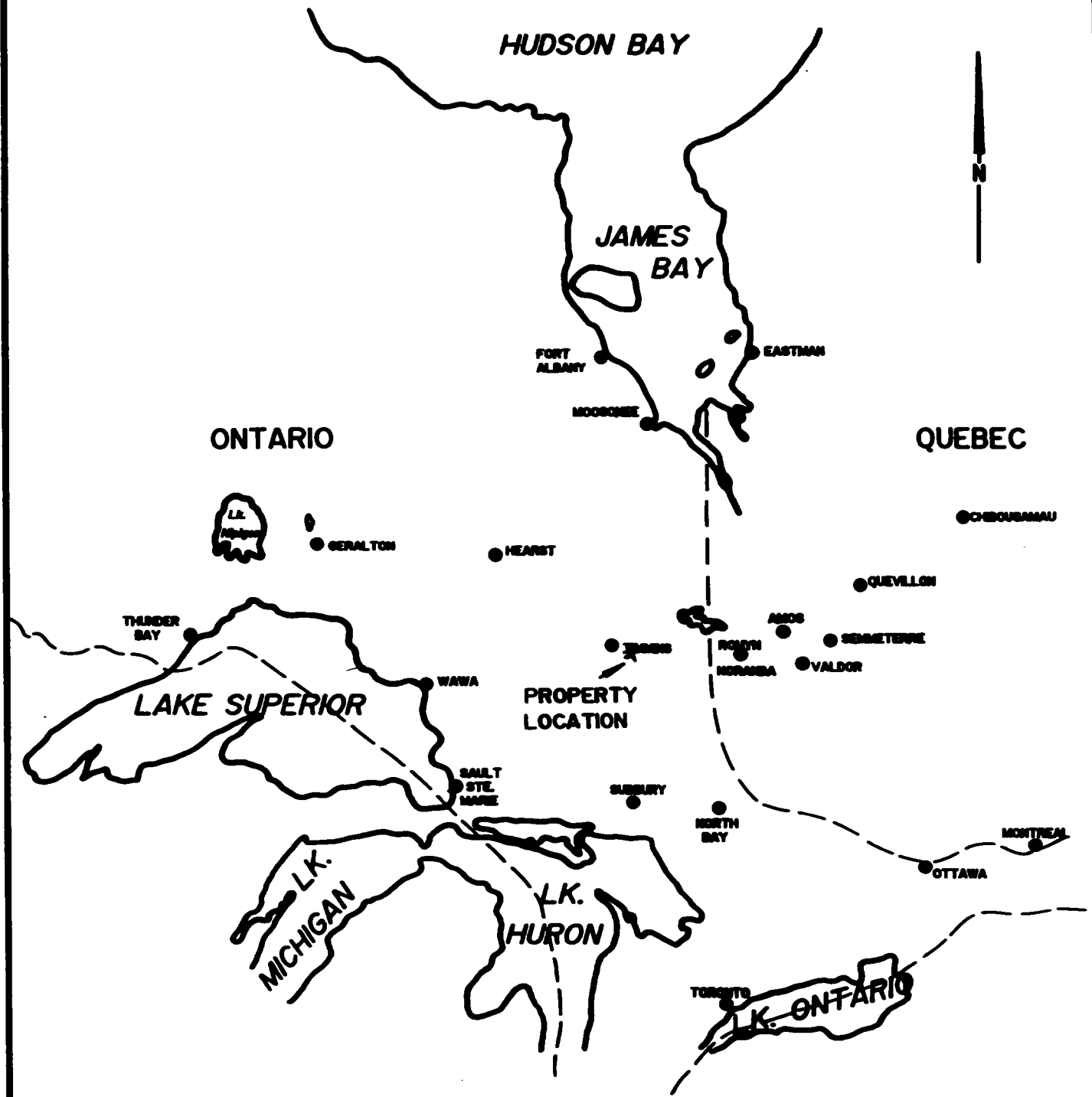
Refer to Figure 3, copied from MNM plan Map G-4000 Carman Township


PERSONNEL

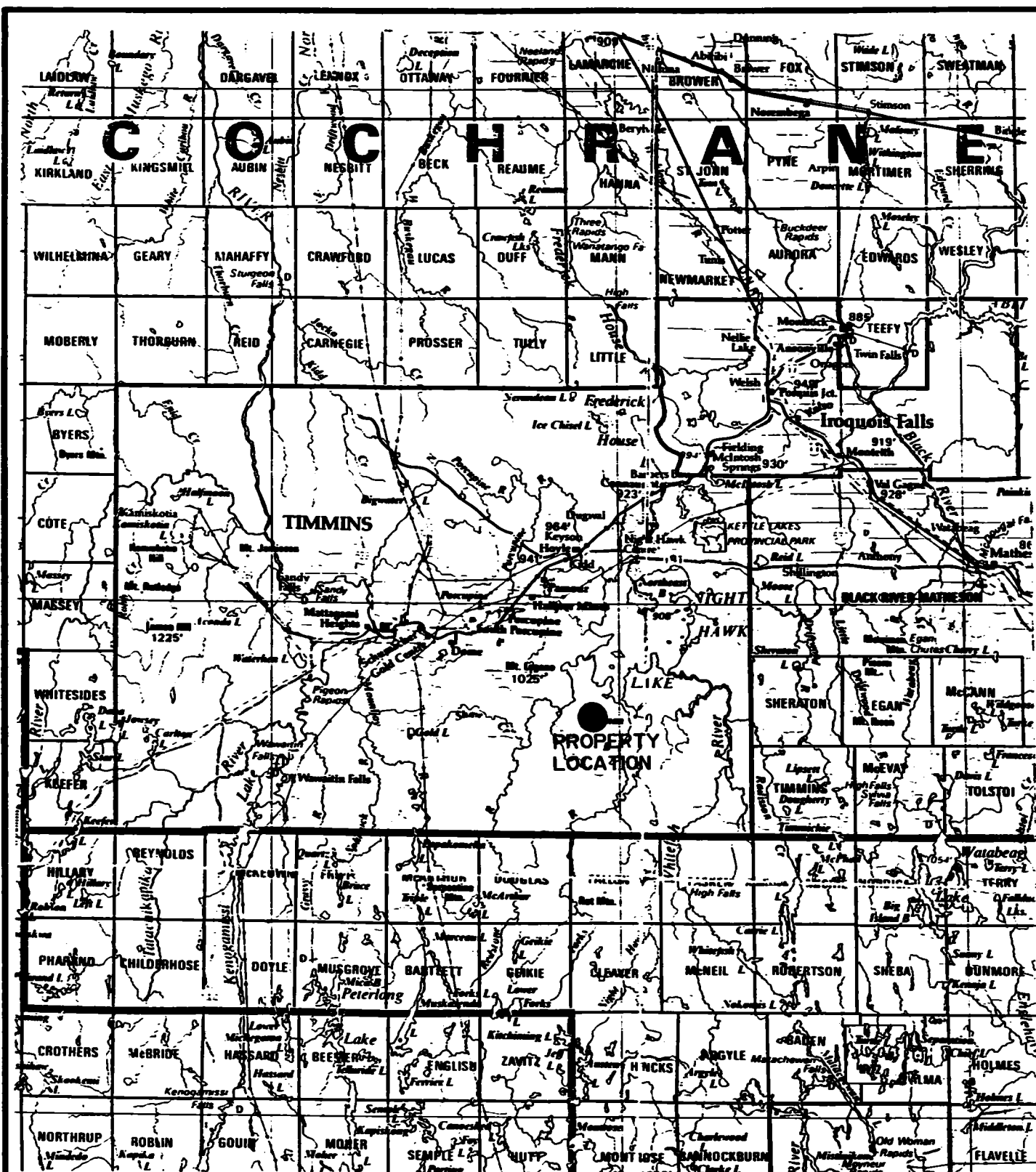
The field crew directly involved with collecting the data were

John C. Grant	Timmins, Ontario
Yvon Collin	Timmins, Ontario
Robin Mathieu	Timmins, Ontario
Norman Collin	Timmins, Ontario

The plotting and computer compilation was completed by P. Gauthier of Exsics Exploration Limited.



		
EXSICS EXPLORATION LTD. P.O. Box 1000, P4M-7X1 Sault Ste. Marie, Ontario Telephone: 705-263-4551		
CLIENT: FALCONBRIDGE LIMITED		
PROPERTY: CARMAN TOWNSHIP PN 8183		
TITLE: LOCATION MAP		
Fig. 1		
Date: April 1995	Scale: 1"=25miles	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-83



EXSICS EXPLORATION LTD.
 P.O. Box 1800, P48-771
 Suite B, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4511

CLIENT: FALCONBRIDGE LIMITED

PROPERTY: CARMAN TOWNSHIP PN 8183

TITLE: PROPERTY LOCATION

Fig. 2

Date: April 1995

Scale: 1:600,000

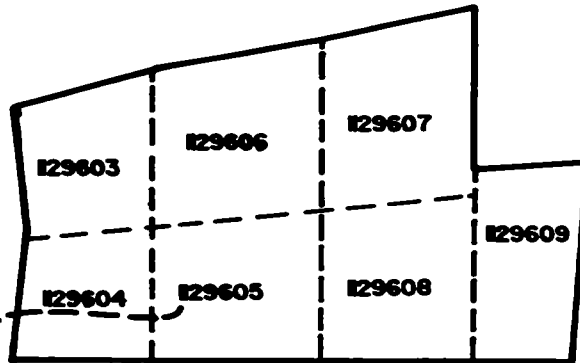
NTS:


Drawn:

Interp: J.C. Grant

Job No. E-113

SHAW TOWNSHIP
CARMAN TOWNSHIP



	EXSICS EXPLORATION LTD. P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
	CLIENT: FALCONBRIDGE LIMITED	
PROPERTY: CARMAN TOWNSHIP PN 8183		
TITLE: CLAIM SKETCH		
Fig. 3		
Date: April 1995	Scale: 1:20,000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-113

GEOPHYSICAL PROGRAM

This program consisted of a Crone Pulse EM-PEM Survey, utilizing the Crone Pulse EM System. Specifications can be found as Appendix A of this report.

Essentially it is an HLEM Survey with the advantage of a shorter coil separation resulting in deeper penetration. The shorter coil separation results in the ability to separate parallel conductive zones.

With the moving coil method, (HLEM), both transmitter and receiver traverse along the same survey line with a fixed coil separation; (a). The variation in coupling provided by the sweep of both transmitter and receiver over the suspected conductive body provides the method with shape and position information that is more detailed than that attainable from large fixed loop EM survey methods. This method provides a depth of exploration of 0.75 times the coil separation for a near vertical conducting surface and a 1.5 times coil separation for a flat dipping surface.

The receiver coil can measure all three components of the secondary field if required. The wide frequency spectrum through the eight channels discriminates between zones of varying conductivity. The unit is not restricted to accurate chaining or in exact co-planor positions as with conventional horizontal loop surveys. A gain pot on the receiver compensates for chaining errors and co-planor problems by maintaining a set primary field throughout the survey. In highly conductive surficial material the separation should be maintained to within 5% accuracy to keep the readings consistent.

When plotting the results, a typical profile would be a negative-positive-negative type response where the more negative shoulder represents the down dip side of the conductor.

The following parameters were kept constant throughout the survey:

Linespacing	-100 meters
Station Spacing	-20 meters
Coil Separation	-160 Meters
Theoretical Search Depth	-120 meters
Parameters Measured	-eight samples of the secondary field, horizontal component

The collected data was then plotted as stacked sections on mylar. These stacked sections represent the eight channels read at each station throughout the survey and are included in the back pockets of this report.

The reconnaissance survey was to be completed across lines 1300ME and 1400ME to test the magnetic units at depth. Lines 1900ME, 2000ME, 2100ME and 2200ME, were also tested to search for a strike or down dip extensions of conductive material parallelling the north contact of the ultramafic intrusive outlined by Timmins Geophysics Ltd. program of 1990.

Author's Note:

When the ground crew were traversing to lines 1900ME and 2000ME in preparation for surveying, a north-south claim line was crossed approximately 35-40 meters west of L1900ME. A claim post was located on this line and found to be the centre post for the following claims:

#1 Post	P-1129605
#2 Post	P-1129606
#3 Post	P-1129607
#4 Post	P-1129608

This would result in shifting the entire grid approximately 100 meters to the east.

Therefore, when referring to Timmins Geophysics report dated July 1990 and plan maps for Grid #1, Line 1900ME would shift approximately 100 meters to the east thus placing it across claims P-1129607 and P-1129608. Refer to Figure 4, location of PEM Survey coverage.

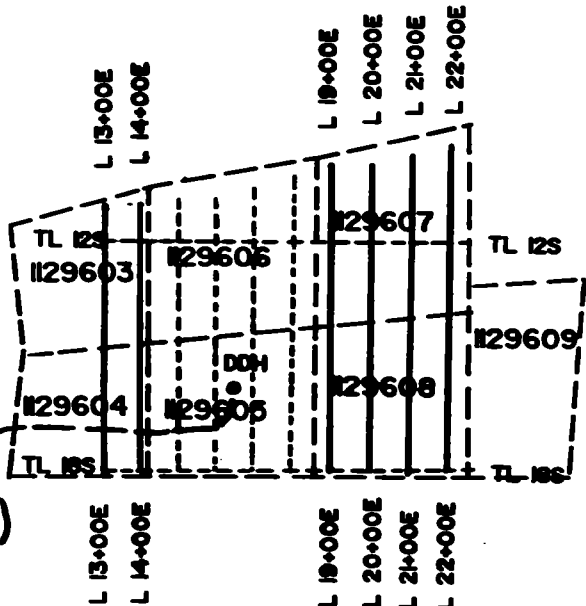
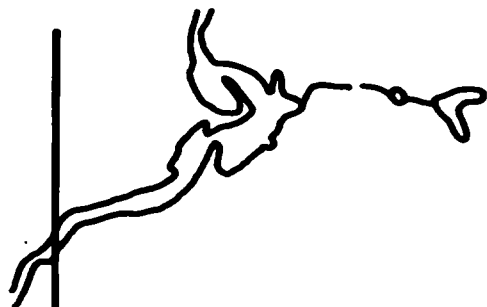
SURVEY RESULTS


Lines 1900ME and 2000ME were selected for the PEM reconnaissance survey to initially follow-up a narrow magnetic high lense like unit which strikes east-west across lines 1600ME/1500MS to L2000ME/1520MS. The unit appears to terminate next to a north-south diabase dike and may have also been cut off by a northwest-southeast striking fault zone. This fault zone may relate to the break between the ultramafics on the southwest and central portion of the grid, represented by the magnetic high activity, and the relatively flat magnetic to the north central and eastern sections.

The magnetic activity to the northeast and east sections of the grid, in the vicinity of Lines 2300ME to 2800ME may again relate to parallel dikes striking north-south.

A number of mafic to intermediate volcanics have been mapped in the vicinity of lines 2100ME to 2400ME, between the suspected dikes and north of the fault. The coverage of Lines 2100ME and 2200ME with the deeper penetrating system, may outline sulphide zones at depth. Similar volcanics to the north, on the patents have contained pyrite, chalcopryrite, lead and sphalerites.

SHAW TOWNSHIP
 CARMAN TOWNSHIP



	EXSICS EXPLORATION LTD. P.O. Box 1000, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4511	
	CLIENT: FALCONBRIDGE LIMITED	
PROPERTY: CARMAN TOWNSHIP PN 8183		
TITLE: PEM SURVEY COVERAGE		
Fig. 4		
Date: May 1995	Scale: 1:20,000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-13

Line 1900ME, 2000ME, 2100ME and 2200ME did not enhance the initial 1990 Max Min Survey results. Although the PEM survey penetration was approximately 120 meters vertical it did not return any encouraging results over the suspected magnetic lense like units situated between lines 1600ME to 2000ME at approximately 1500MS. The survey did not react to the suspected fault structure suggesting that there was no significant sulphide movement associated with the fault. No further work was carried out to the east of line 2200ME.

Lines 1300ME and 1400ME were also selected for PEM follow up as the 1990 magnetic survey showed a number of high magnetic lense like units within a broad area has been interpreted as ultramafics and was thought to be a good target area for sulphide deposition possibly relating to the magnetic lenses.

Again the PEM results were not too encouraging. Both lines reacted to surface conductivity between 1600MS and 1500MS. Line 1300ME appeared to react to a weak conductor of 3.5 to 4 Mhos situated at a depth of 90-100 meters. This zone appears to be centered at 1550MS and correlates to a direct magnetic high.

CONCLUSIONS AND RECOMMENDATIONS

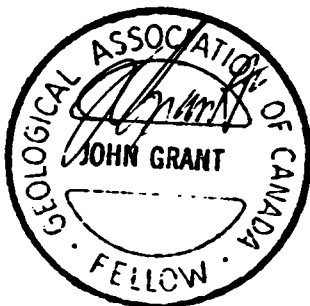
Overall, the PEM Survey was not successful in locating or outlining any definite deep rooted conductive zones. The survey outlined two areas of surface conductivity which may be explained by prospecting as there appears to be abundant outcrop in the area.

The weak, deep EM target outlined by the PEM Survey on L1300ME may be considered for follow-up work. On reviewing the 1777Hz Max Min data of Timmins Geophysics, Line 1400ME may have noted a weak narrow conductor at 1600MS. This could relate to the same source. The PEM Survey indicated surface conductivity at 1600MS and L1400ME as well.

Should a follow-up program be considered, detail mapping of the property would explain the surface responses. A possible Deep EM Survey may enhance the weak EM responses on L1300ME.

Respectfully Submitted

John C. Grant CET FGAC

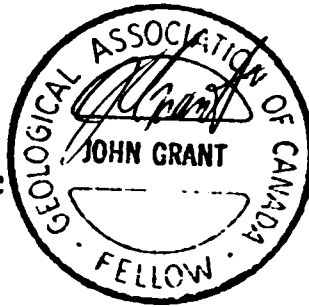


CERTIFICATE

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, CET, FGAC



APPENDIX A

CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA, L5C 1V8

AUSTRALIA OFFICE:
244 Newbridge Road,
MOOREBANK, N.S.W. 2170.

Phone: (416) 270-0096
TELEX: 06-861260

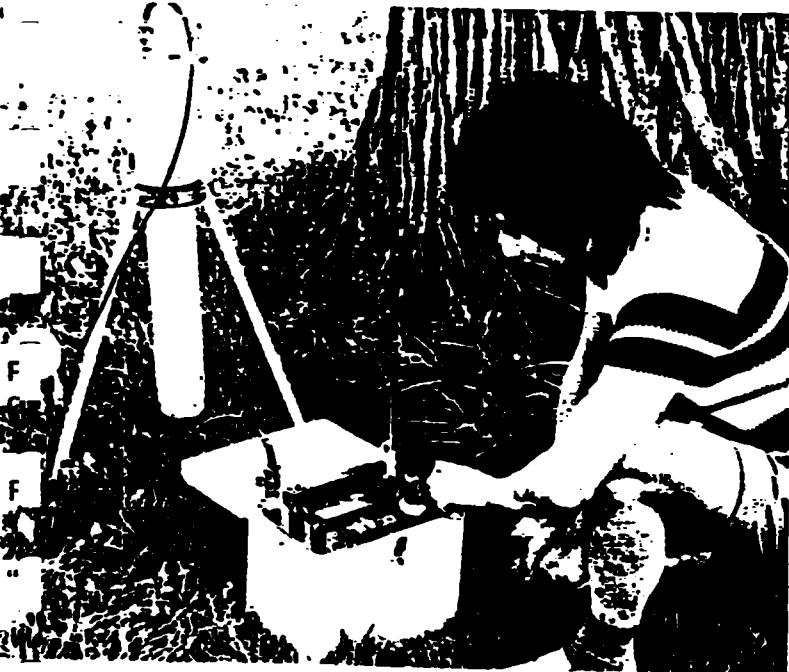
Phone: (02) 602-0937
TELEX: 71-22922



PULS

TEM

RECEIVER

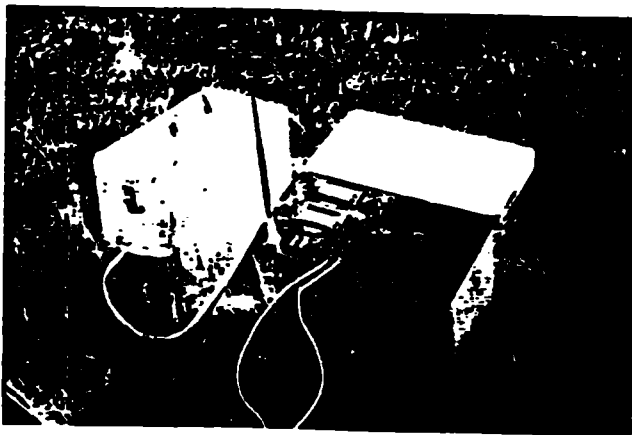


FLEXIBILITY:

The equipment is not restricted to a fixed method. Since it is a Time Domain Method there are no rigid geometrical restrictions as to coil configurations. The transmit coil energizes — as small or large horizontal loops or a vertical loop. The receive coil measures — all three components of the secondary fields if required. The wide frequency spectrum discriminates between zones of varying conductivity. With minor modifications the equipment has borehole capabilities to a depth of 300 meters.

INTERPRETATION:

The equipment is capable of measuring all 3 components of the secondary fields. This information can be translated into accurate estimates of the shape and position of the conductors. The method of direct plotting of induced current paths at different frequencies is a very effective interpretative method that can be performed in the field. A complete study of borehole response curves is available, (D. Wood's Thesis).



TRANSMITTER

EQUIPMENT SALES, RENTAL & CONTRACT SERVICES AVAILABLE

PEM SPECIFICATIONS

TRANSMITTER:

- Transmit Control: 37x25x21cm, Weight: 11kg (23 lbs)
- Output Voltage: 24 volt, maximum output current 20 amps
- Output Waveform: Switch selectable timebase of "10ms" or "20ms" with "10ms" timebase current on 10.8ms, ramp shut off for 1.4ms, current off 9.4ms — reversing continuous waveform. With "20ms" timebase current on and off times are doubled.
- Input Power from 2 of 12 volt rechargeable batteries. Standard equipment uses 2 of 12 volt, 20 amp hour Globe gel cells in an aluminum case that can be mounted on a packframe. Weight 18.1 kg (40 lbs) Optional Equipment — lightweight powerpack 4 of 6 volt, 8 amp hour rechargeable gel cells, Weight — 9 kg (20 lbs). Motor generator for continuous operation "DEEPEM" or Borehole EM, packframe mounted 3 HP, 4 cycle gasoline engine and 24 volt generator. Total weight 18 kg (40 lbs).
- Timing controls by radio and /or cable to receiver. Cable standard length — 100M.
- Control box dimensions: 20.5cm x 25.5cm x 36.5cm. Weight 10 kg (22 lbs).
- Transmit Loop: Variable in size and number of turns from standard 6 and 9 meter diameter aluminum loops to breakable loop 9 meters in diameter and single turn 100 meter square (or 400x400 feet square) for DEEPEM and Borehole capabilities. All loops have approximately 1 Ohm resistance and a weight of 15 kg (30 lbs).
- Battery Chargers: 2 of modified Gel cell chargers 14.4 volts, initial charge current 3 to 4 amps, 110 volts or optional 220 volt supply — 50-60Hz.
- Vertical Loop Mast: Optional extra — 5 pieces tubular aluminum 9 meters high. Weight 6 kg.
- High powered transmitters (24 volts, 80 amps) are available upon request.

RECEIVER:

Receiver Coil: Ferrite core antenna with preamplifier, mounted on a tripod. Dimensions: Height 63 cm, diameter 11 cm, weight 7 kg (16 lbs). Preamplifier power supply 2 of 9 volt batteries, vertical and horizontal levels are mounted on the coil.

Receiver Measuring Unit. Dimensions: 28 cm x 27 cm x 18 cm; weight 7 kg (16 lbs). Measurements on "10ms" time base. — Primary pulse: -100 to 0 μ sec., mid point — 50 μ s, position variable by means of a 10 turn pot — used to set zero time position at peak primary pulse. Primary pulse sample is usually set at "1000" by means of variable gain pot.

Eight samples of secondary field:

- (1) 100 to 200 μ s middle point 150 μ s
- (2) 200 to 400 μ s middle point 300 μ s
- (3) 400 to 700 μ s middle point 550 μ s
- (4) 700 to 1100 μ s middle point 900 μ s
- (5) 1100 to 1800 μ s middle point 1450 μ s
- (6) 1800 to 3000 μ s middle point 2400 μ s
- (7) 3000 to 5000 μ s middle point 4000 μ s
- (8) 5000 to 7800 μ s middle point 6400 μ s

Sample times can be doubled by switching to "20ms" time base. Receiver voltages are integrated over sample width and automatically stored and averaged over a 11 second period. Samples can also be read continuously.

SHIPPING: All instruments packed in foam lined wood boxes.

	<u>Shipping Weight</u>
(1) Box Receiver unit	14.5 kb (32 lbs)
(2) Box Transmitter unit	20 kg (45 lbs)
(3) Box Battery unit	28 kg (61 lbs)
(4) Box Receive Coil	16 kg (36 lbs)
(5) Box Transmit Coil, packframe, battery, chargers, timing cable	36 kg (80 lbs)

Total approximate shipping weight:

114.5 kg (254 lbs)



Report of Work Conducted After Recording Claim

Transaction Number
W950.00249

Mining Act

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) 670-7264.

16089

- 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 completed
 - Technical reports and maps must accompany
 - A sketch, showing the claims the work is



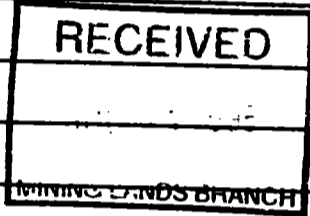
42A08NE0020 2.16089 CARMAN

900

Recorded Holder(s) Falconbridge Limited		Client No. 130679
Address Box 1140, 571 Moneta Ave., Timmins, ON., P4N 7H9		Telephone No. (705) 267-1188
Mining Division Porcupine	Township/Area Carman - stew	M or G Plan No.
Dates Work Performed From: May 3, 1995	To: May 5, 1995	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	EM-PEM-HLEM Ground geophysical survey
<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 \$ **4824**

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
Exsics Exploration Limited	PO Box 1880, Suite 13, Hollinger Bldg., Timmins, ON., P4N 7H9

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 May 13, 1995	Recorded Holder or Agent (Signature) <i>[Signature]</i>
-----------------------------	--

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
Lawrence Howland, 169 Balsam St. N., Timmins, ON.

Telephone No. 267-1188	Date May 13, 1995	Certified By (Signature) <i>[Signature]</i>
----------------------------------	-----------------------------	--

Recorder Office Use Only

Total Value Cr. Recorded \$ 4,824.	Date Recorded AUG 15/95	Mining Recorder T. Binkley	Recorded Stamp MAY 17 1995 @ 3:30 (C) (C)
	Deemed Approval Date	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
W9560.00249

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^e 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		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Exsics Expl. Ltd.		
	PEM-HEM SURVEY	4824	4824
Supplies Used Fournitures utilisées	Type		
Equipment rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			4824

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			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valueur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

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.

Working Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

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	Evaluation totale demandée
	× 0,50 =

Verification 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 in the accompanying Report of Work form.

I, as Assistant Geologist am authorized
(Recorded Holder) (Representative Position in Company)

to make this certification on

MAY 17 1995

0330 61 00
BCC

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(e)
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature _____ Date May 13 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

July 11, 1995

Our File: 2.16089
Transaction #: W9560.00249

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

Dear Mr. White:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
P-1129608 et al. IN CARMAN TOWNSHIP**

Assessment credits have been approved as outlined on the report of work form. The credits have been approved under Section 14 (Geophysical) of the Mining Act Regulations.

The approval date is July 11, 1995.

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

Yours sincerely,



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

SBB SBB/jn

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Sudbury, Ontario

	KEEFER	DENSON	THORNELOE	PRICE	ADAMS	ELDORADO	LANGRUR	BLACKSTOCK	TIMMIS	
WELL	HILLARY	REYNOLDS	MURKIN	FRIPP	McARTHUR	DOUGLAS	FALLON	FISKEN	MICHE	
YAMING	PIERSON	CHILDERS-ROSE	DOYLE	MUSGROVE	BARILETT	GENE	CLEMER	MUEL	ROBERTSON	
	CROWERS	McBRIDE	HASSARD	BEDMER	ENGLISH	ZWEZ	WICKS	ARCILE	BODEN	IR 72
EGAN	MORSEBUP	ROSLIN	COUIN	MOWER	SEMPLE	HURT	MORROSE	BIRROCK-BURN	PONELL	



INDEX MAP



M
C
M

ONOMIC

FALCONBRIDGE LIMITED

Exploration Division

Timmins ONTARIO



SHAW & CARMAN TOWNSHIPS

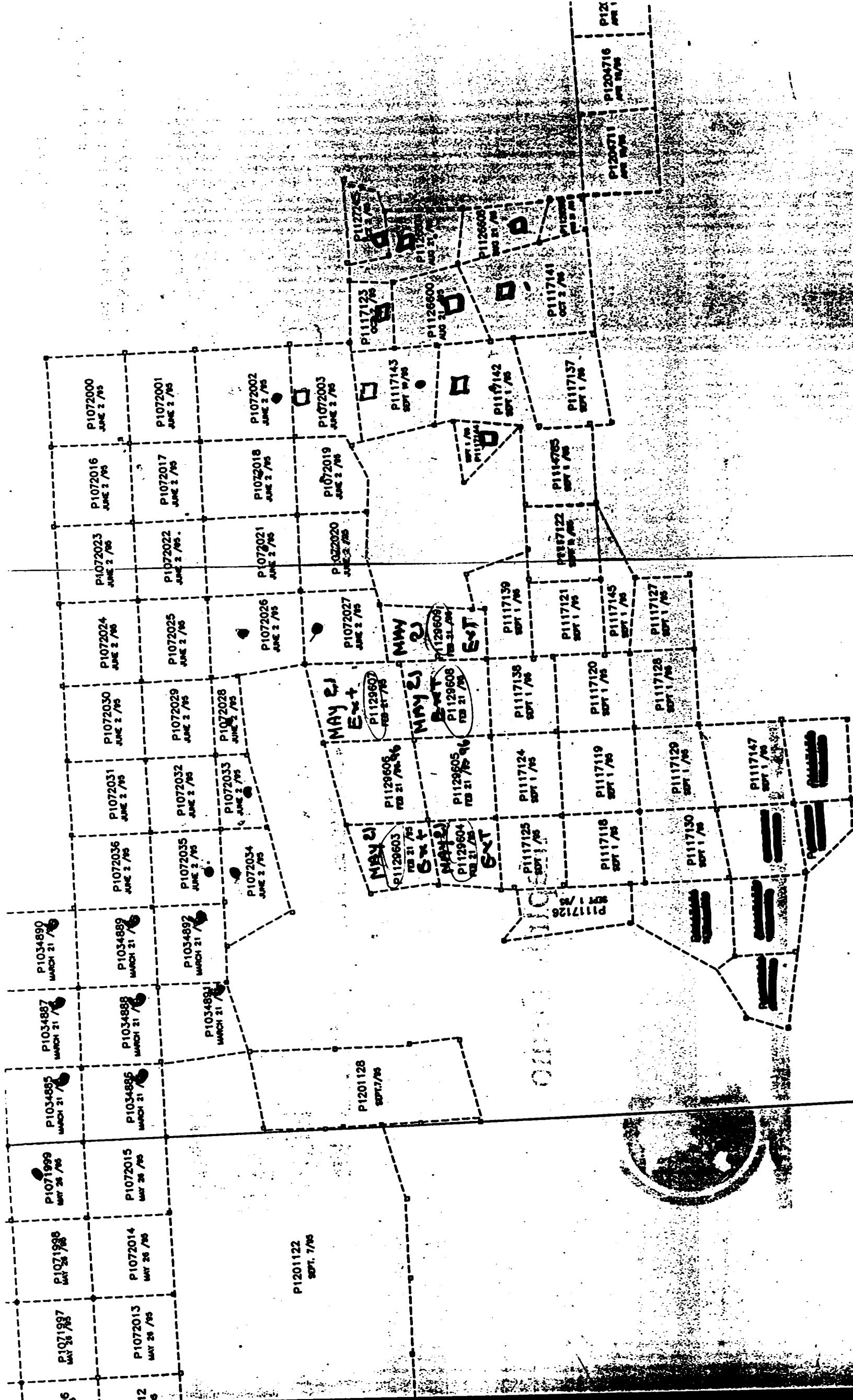
CLAIMS

(UPDATED ON JUNE 24/94)

TRACED: PCW/T.S./LL	DATE: 06/91,09/93	NTS: 42-A/6,7	PROJECT: 8183
DRAWN: LL	DATE: 10/09/93	MAP No: SHACAR	FILE: SHACAR-2
SUPERSEDED: D.Mc.	DATE: 09/93	SCALE 1:20 000 (metres)	
REVISED: IL	DATE: 06/94		

TED UTM NORTH
359° 54'





51

0004-G

CYBAM TWP

0000

MAP SYMBOLOGY

Aerial Cowlway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
District Township	Abandoned
Indian Reserve	Approved
Apprentice	Road
Let. Concession	By-law County Township
Apprentice	Access Road (road of doubtful maintenance or discontinue driveway)
Park Boundary	Trail, Road Bank (outside city)
Bridge	Rapids
Road, Railroad	Double line river with multiple rapids
Building	Single line river with multiple rapids
Chimney	Reservoir
Cliff, Mt. P. &	River, Stream, Canal
Contours	Apprentice
Interprovincial	Approach
Apprentice	Control Points
Depression	Horizontal
Control Points	Vertical
Horizontal	Vertical
Vertical	Culvert
Culvert	Falls
Falls	Double line river with multiple rapids
Double line river with multiple rapids	Fence, Hedge, Wall
Fence, Hedge, Wall	Feature Outline (Construction features, etc.)
Feature Outline (Construction features, etc.)	Flooded Land
Flooded Land	Loch
Loch	Marsh or Swamp
Marsh or Swamp	Mast
Mast	Mine Head Frame
Mine Head Frame	Outcrop
Outcrop	

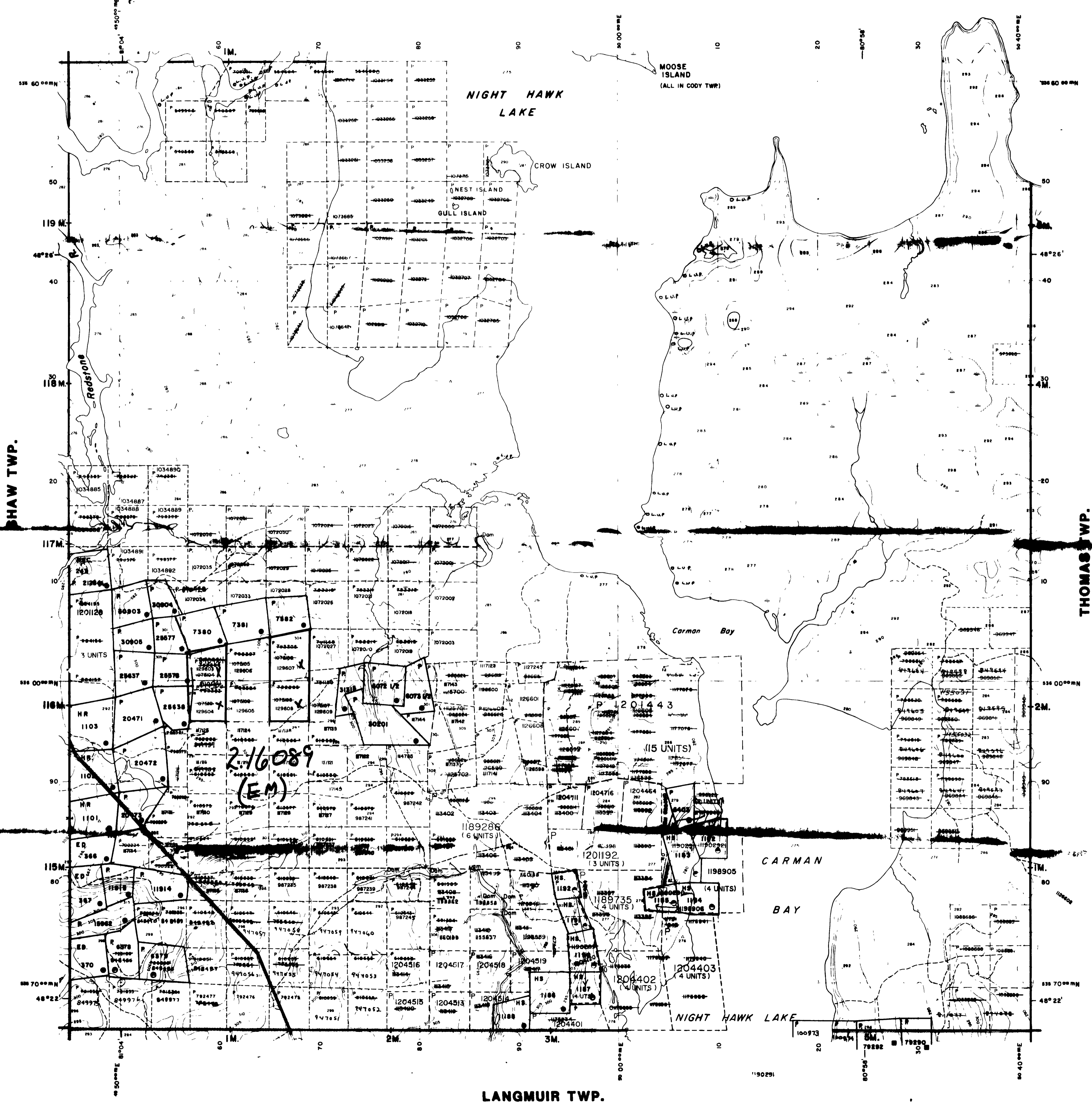
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M+S - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

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 L.

CODY TWP.



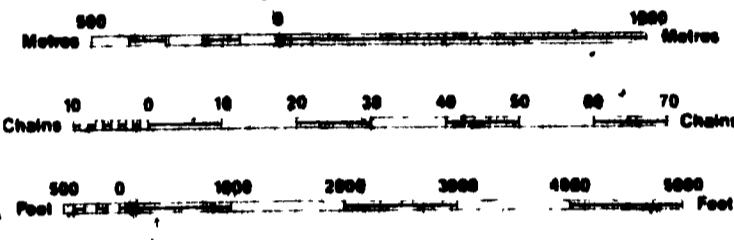
LEGEND

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 6 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 280, SEC. 53, SUBSEC. 1



SCALE 1:20 000
 GRID ZONE: 17
 THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/94
 FURTHER INFORMATION ON FILE.

ISSUED

JUL 6 1995

PORCUPINE MINING DIVISION

2.160

Rec'd Jan. 22/85

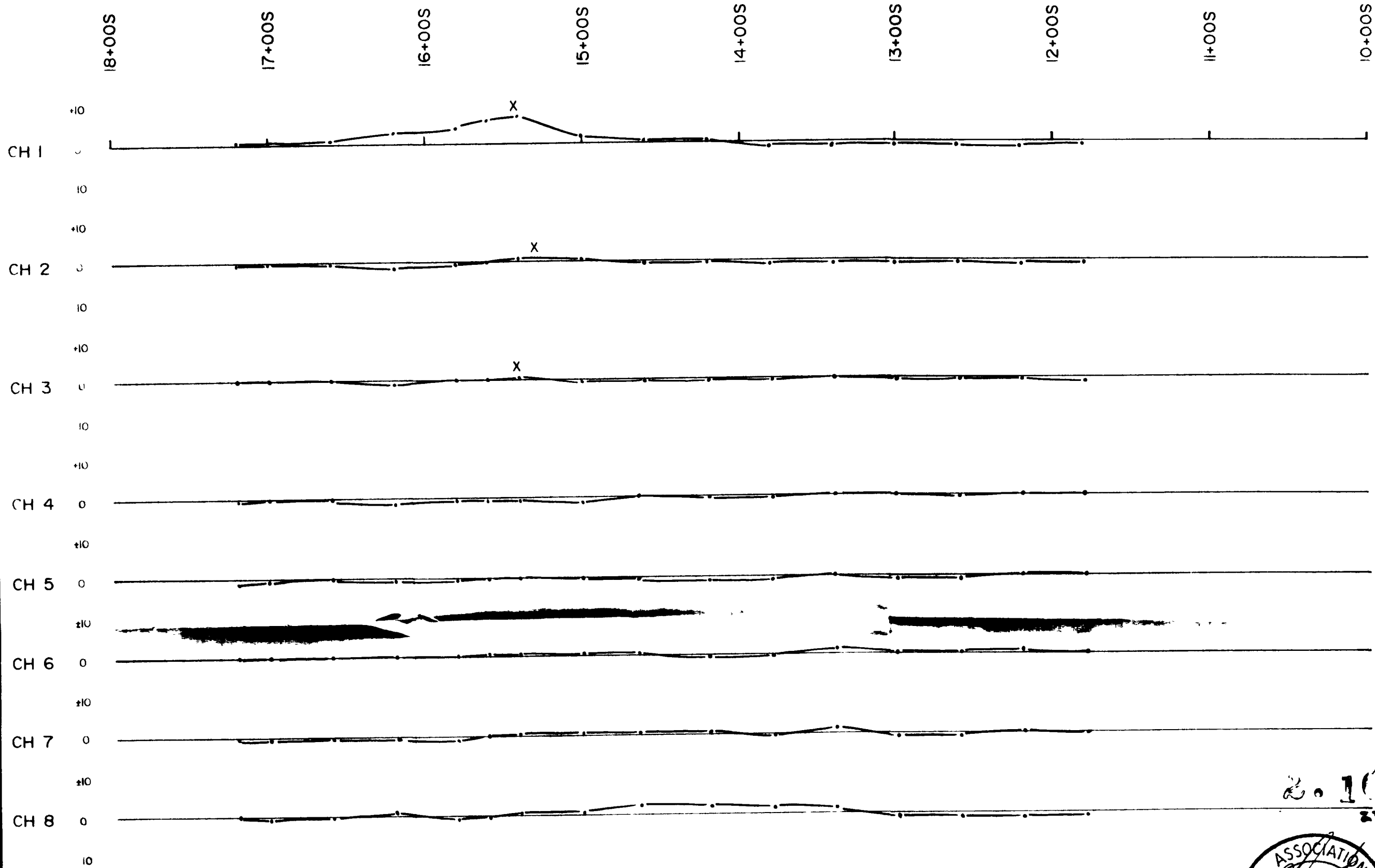
TOWNSHIP
CARMAN
 M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Land Management Branch
 Ontario

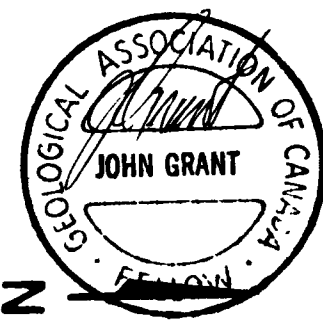
ORIGINAL COMPILED JULY 1984
 REVISED:
 Number
G-4000

LANGMUIR TWP.

1/2 June 29/85
1/20 July 13/85



2.1000



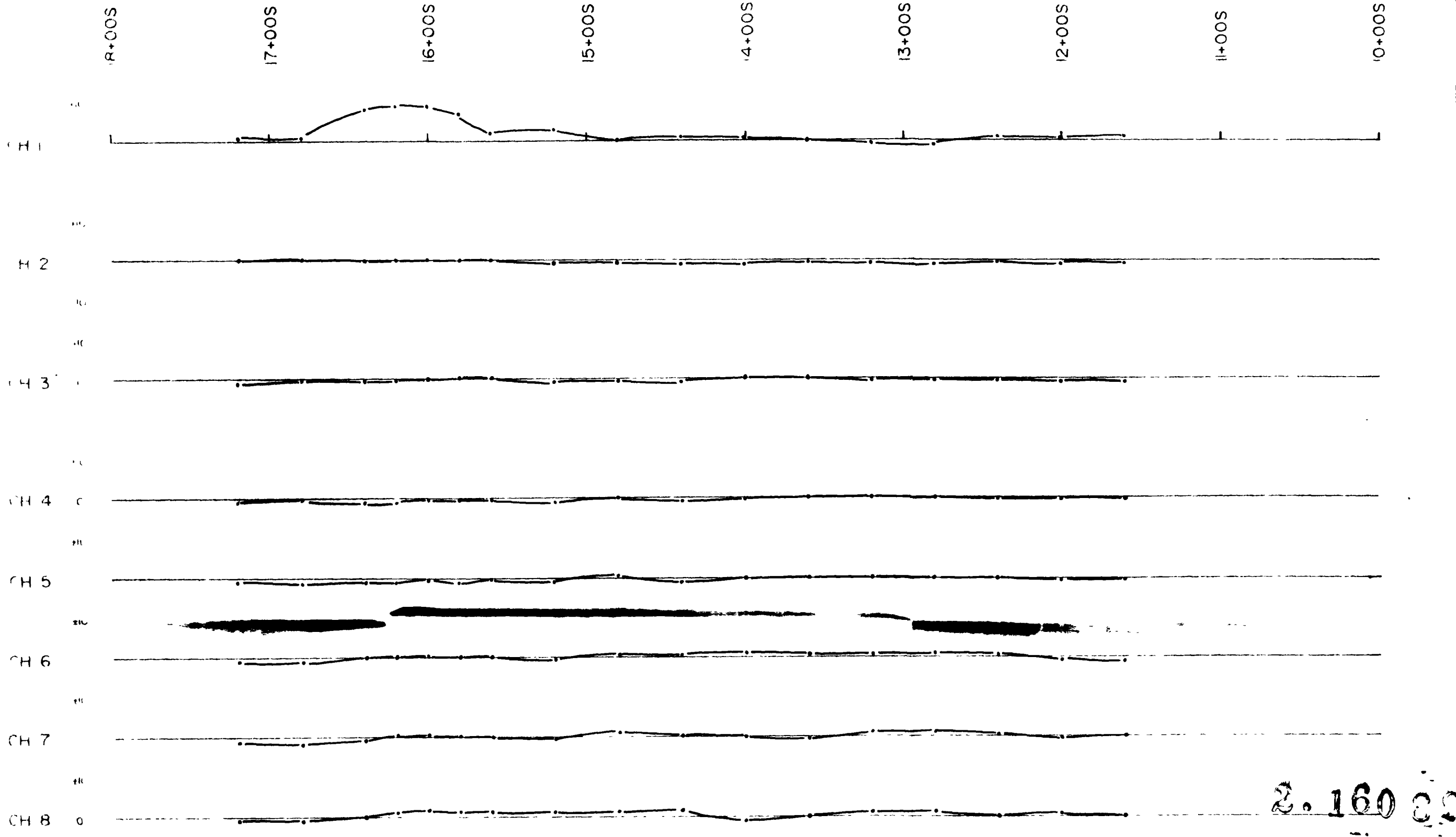
x= Conductor Axis
 Depth: 90-100m
 Conductivity: 3.5-4MHOS
 Dip: Vertical to Slightly South

Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted

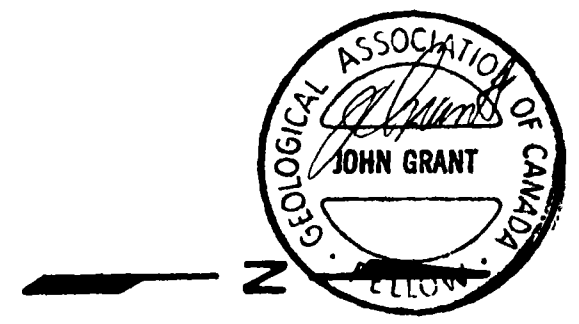
	EXSICS EXPLORATION LTD.		
	P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont Telephone 705-267-4151		
CLIENT	FALCONBRIDGE LIMITED		
PROPERTY	CARMEN TWP.		
TITLE	L 13+00 East PEM MOVING COIL SURVEY		
Date	May 1995	Scale 1:2500	
Drawn	P. Gauthier	Interp J.C. Grant	
		NTS	
		Job No E-113	



42A08NE0020 2 18089 CARMAN



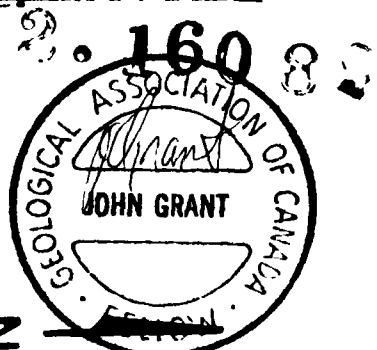
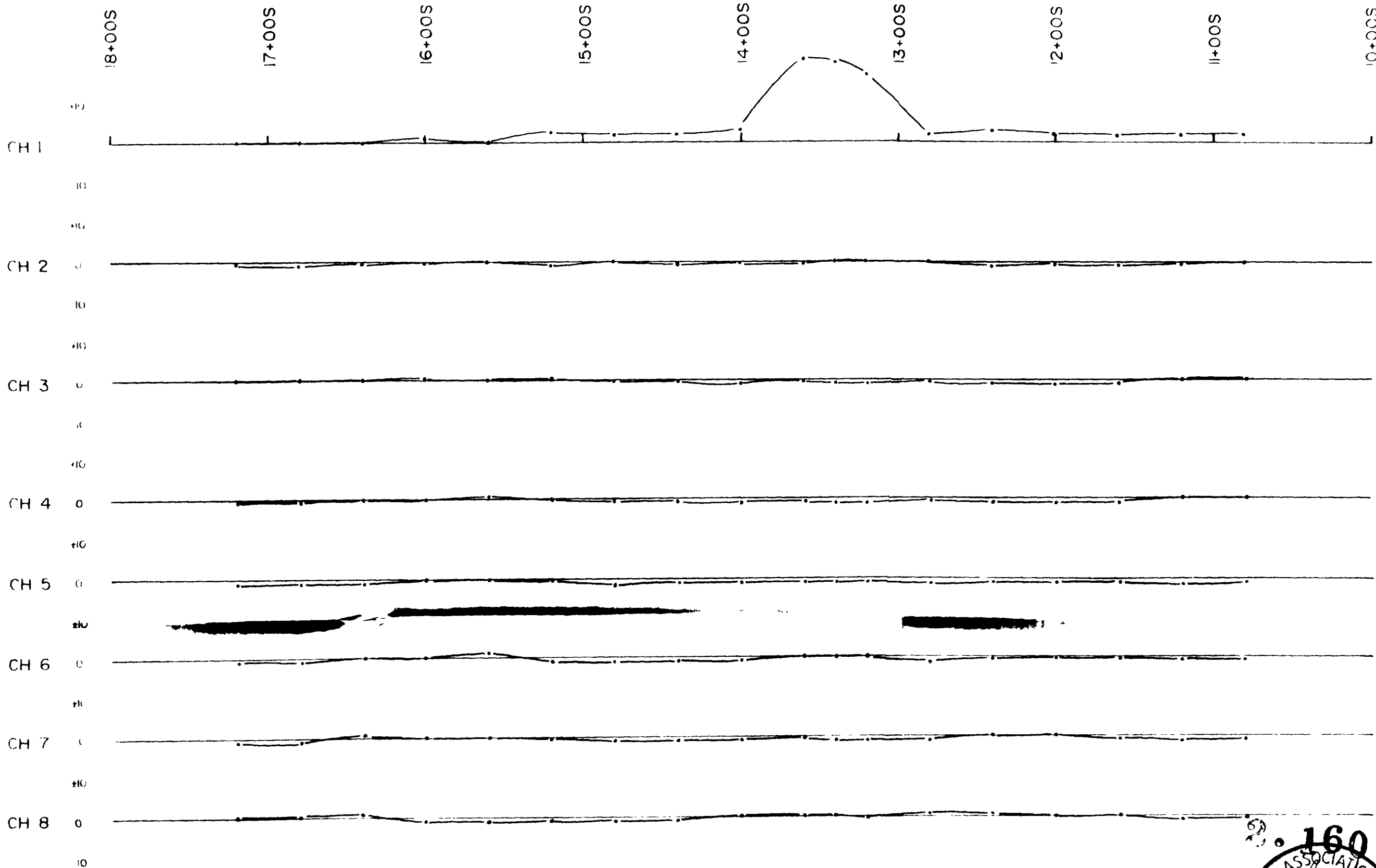
2. 160 00



220

Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted

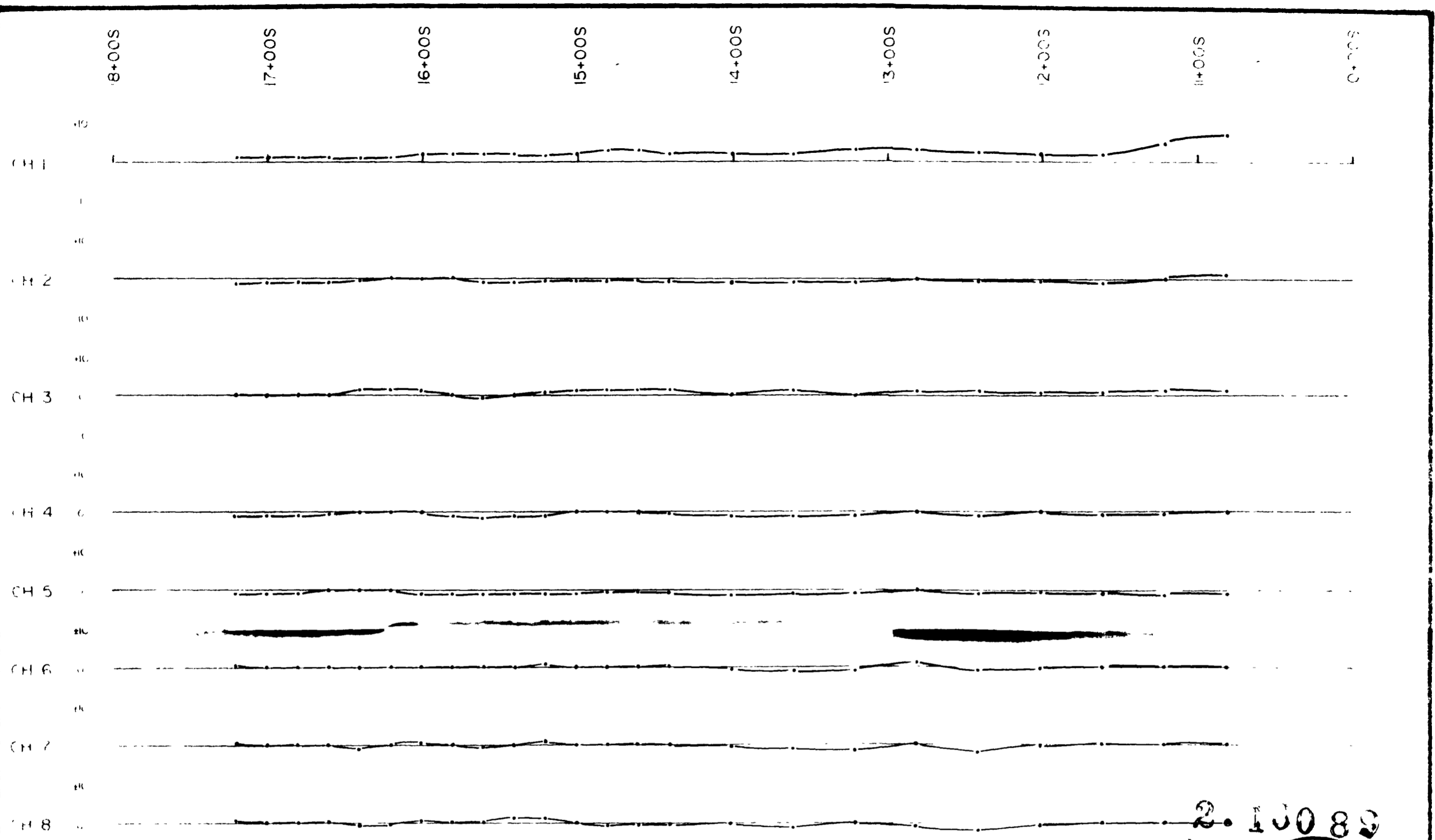
	EXSICS EXPLORATION LTD.		
	P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont Telephone 705-267-6151		
CLIENT	FALCONBRIDGE LIMITED		
PROPERTY	CARMEN TWP.		
TITLE	L 14+00 East PEM MOVING COIL SURVEY		
Date	May 1995	Scale	1:2500
Drawn	P. Gauthier	Interp	J.C. Grant
			NTS
			Job No F 113



Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted

	EXSICS EXPLORATION LTD		
	P.O. Box 1880, P4N-7X1 Suite 13 Hollinger Bldg Timmins Ont Telephone 705 267-4151		
	CLIENT	FALCONBRIDGE LIMITED	
PROPERTY	CARMEN TWP.		
TITLE	L 19+00 East		
	PEM MOVING COIL SURVEY		
Date	May 1995	Scale	1:2500
Drawn	P. Gauthier	Interp	J.C. Grant
		NTS	Job No F-113





2-15083



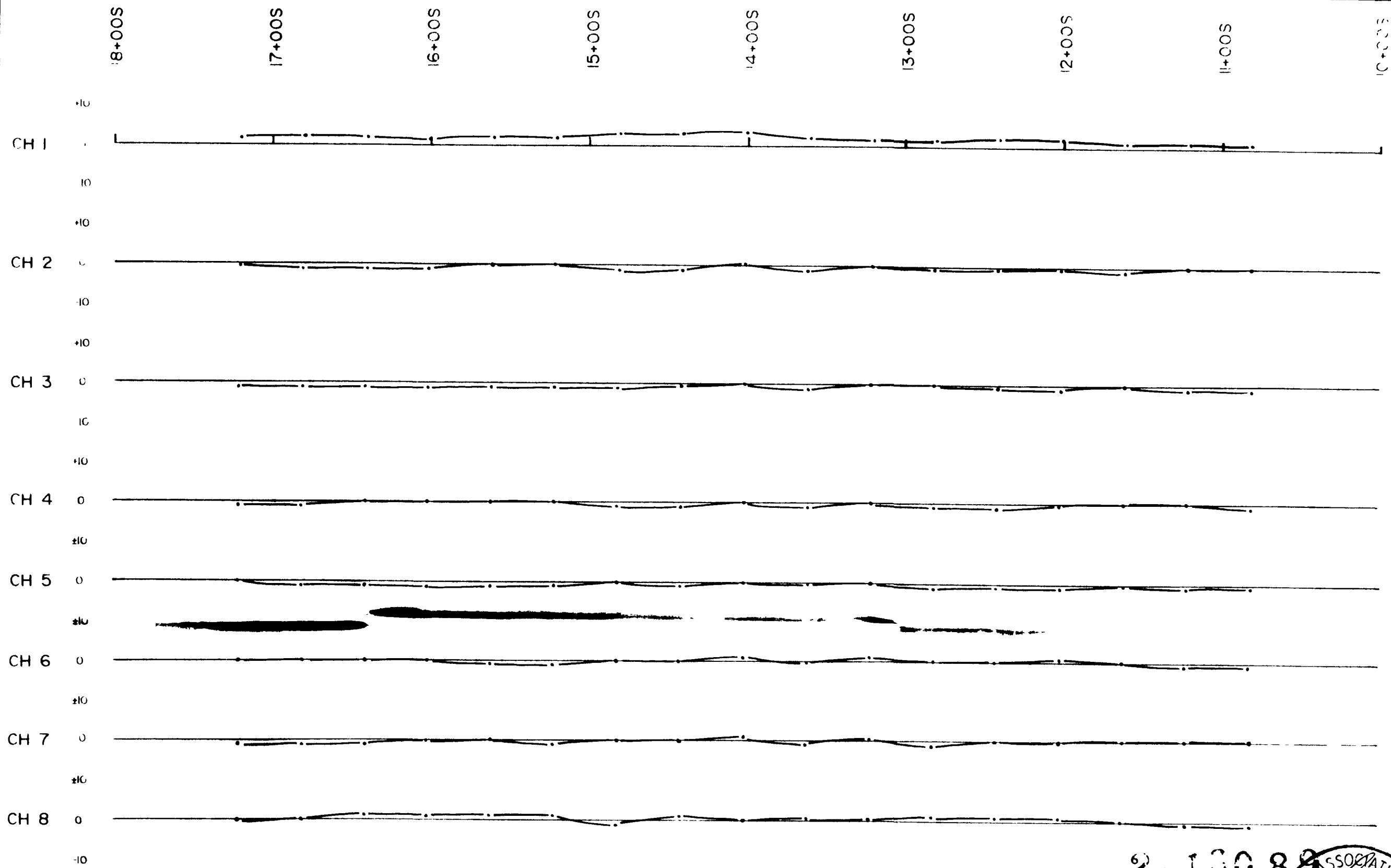
Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted



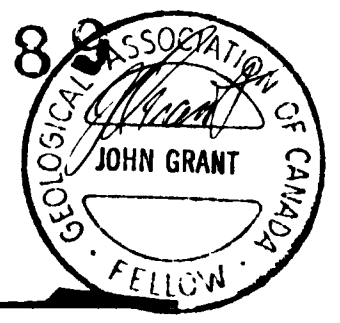
42A06NE0020 2 16089 CARMAN

240

	EXSICS EXPLORATION LTD		
	P.O. Box 1880 P4M TX1 Suite 11 Hollinger Bldg Timmins Ont Telephone 705 267 4151		
CLIENT	FALCONBRIDGE LIMITED		
PROPERTY	CARMEN TWP		
TITLE	L 20+00 East		
PEM MOVING COIL SURVEY			
Date	May 19 85	Scale	NTS
Drawn	Weather	Interp	Grant
		Job No	114



2.10088

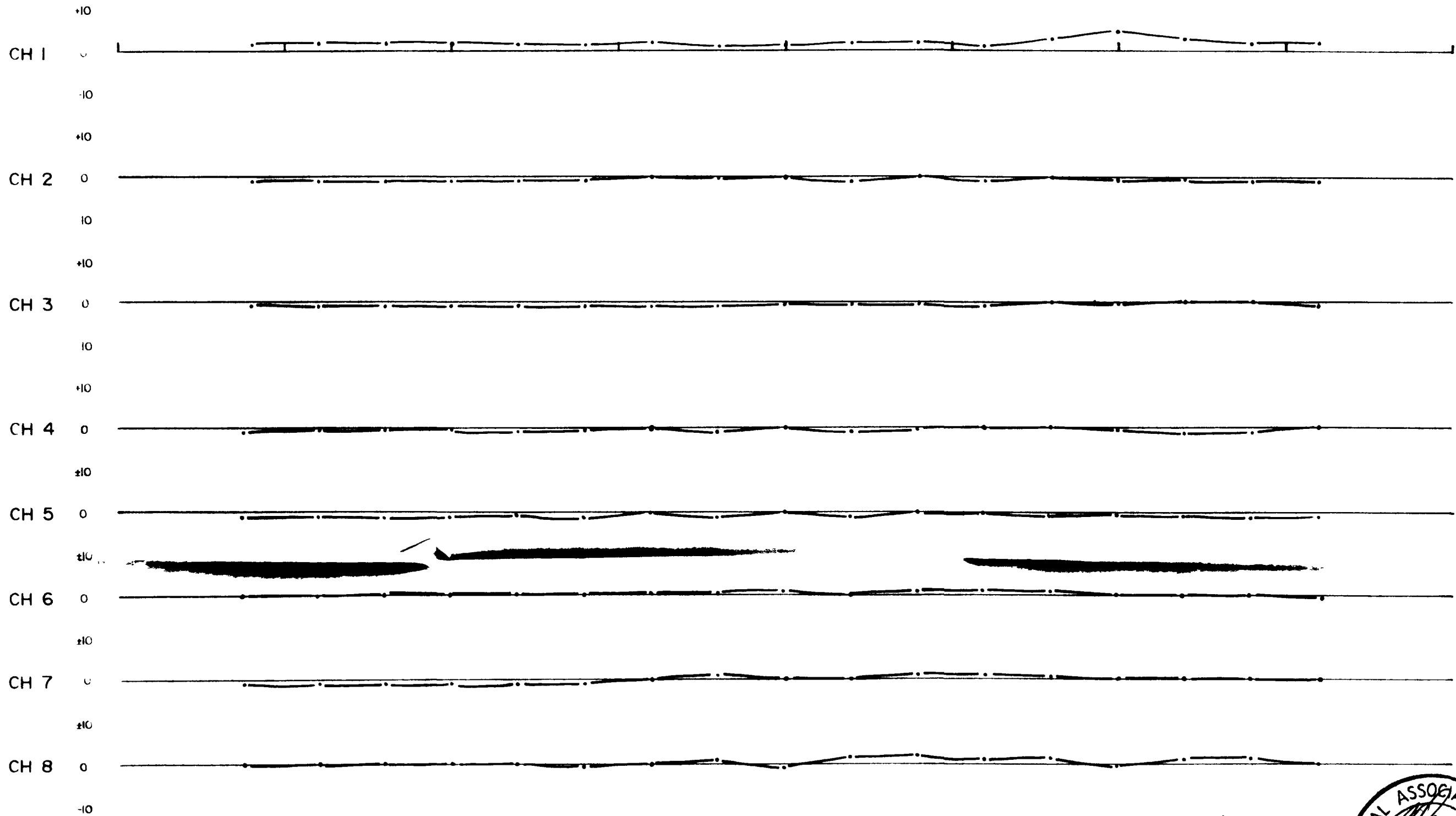


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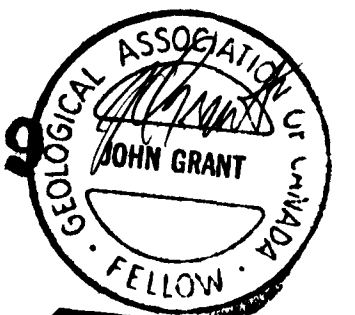
Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted

	EXSICS EXPLORATION LTD.		
	<small>P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg Timmins Ont Telephone 705-267-4151</small>		
CLIENT	FALCONBRIDGE LIMITED		
PROPERTY	CARMEN TWP.		
TITLE	L 21+00 East PEM MOVING COIL SURVEY		
Date	May 1995	Scale	1:2500
Drawn	P. Gauthier	Interp	J. Grant
		NTS	Job No 113

18+00S 17+00S 16+00S 15+00S 14+00S 13+00S 12+00S 11+00S 10+00S



2.16089



260

Coil Separation: 160m
 Primary Field Setting: 450
 Horizontal Component Plotted

	EXSICS EXPLORATION LTD. <small>P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont Telephone 705-267-4151</small>				
	CLIENT	FALCONBRIDGE LIMITED			
PROPERTY	CARMEN TWP.				
TITLE	L 22+00 East PEM MOVING COIL SURVEY				
Date	May 1995	Scale	1:2500	NTS	
Drawn	P. Gauthier	Interp	J. Grant	Job No	F 113