



42G07SW0010 2.2083 CARGILL

2.2083

010

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APR 14 1976

LOGISITCS REPORT

PROJECTS UNIT.

on

LINE CUTTING AND MAGNETIC SURVEY

conducted in

CARGILL AND CUMMING TOWNSHIPS

Kapuskasing Area, Ontario

on behalf of

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

by

GEOTERREX LIMITED

Project No. 85-702

OTTAWA, ONTARIO
December 1975

A. KERR
Operator and
Project Manager

geoterrex



42G07SW0010 2.2083 CARGILL

010C

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Accompanying this report are numerical value plan maps and magnetic contour plan maps for each area surveyed.

I. INTRODUCTION

During the period from 22nd October to 13th November 1975, line cutting and ground magnetic surveys were carried out in the Cargill and Cumming Townships area near Kapuskasing, Ontario by Geoterrex Limited of 2060 Walkley Road, Ottawa, Ontario on behalf of International Minerals and Chemical Corporation, I.M.C. Plaza, Libertyville, Illinois, U.S.A.

II. PROCEDURE

Three grids were cut and chained over target areas defined by I.M.C. After establishing a good base line, "line of sight", traverse lines were cut 100 m. apart with pickets at 25 m. intervals. Magnetometer base stations were then established for each grid and readings taken along traverse lines at each picket. Whenever the magnetic gradient exceeded 100 gammas over a 25 m. interval, readings were then taken every 12.5 m.

To reduce background noise, the magnetometer sensor was mounted on an 8 foot staff.

III. EQUIPMENT

The instruments used were as follows:

- 1 Topofil Chaix metric chaining device
- 1 Geometrics G-816 nuclear precession magnetometer,
the specifications of which are attached.

IV. STATISTICS

Grid #1 (2,590 m. west of Lost River Bridge)

1,400 m. of base line and 10,445 m. of picket line were cut and chained. 710 magnetometer readings were taken to cover the traverse lines.

The line cutting on this area required 19 man days.

Grid #2 (West of Cargill Lake)

1,500 m. of base line and 7,400 m. of picket line were cut but only 1,100 m. of base line and 4,400 m. of picket line were eventually chained.

228 magnetometer readings were taken covering 2,800 m. of traverse line.

The discrepancy between line cut, line chained and line surveyed with the magnetometer occurred due to changes in instructions received from I.M.C. while the grid was being prepared.

The line cutting on the above area required 16 man days.

Grid #3 (South-east of Cargill Lake)

900 m. of base line and 5,700 m. of picket line were cut and chained.

362 magnetometer readings were taken to cover the traverse lines.

The line cutting on this area required 12 man days to complete.

V. PERSONNEL

A. Kerr, Geophysical Operator and Project Manager
761 Cooper Street
Ottawa, Ontario

A. Jacob, Line Cutter, 3 days
Amos Quebec

C. McDougall, Line Cutter, 3 days
Amos
Quebec

I. McDougall, Line Cutter, 10 days
Amos
Quebec

J. Mapachee, Line Cutter, 16 days
Amos
Quebec

J. Kistabish, Line Cutter, 4 days
Amos
Quebec

R. Kistabish, Line Cutter, 11 days
Amos
Quebec

The original plan was for the line cutting crew to consist of four men. Due to accidents and other unforeseen events, it was difficult at times to maintain this number, however, the line cutting crew was eventually increased to five men in order to compensate for the time lost at the beginning of the project.

It may be noticed that the line cutting performed required 47 man days to complete against an original estimate of 44 man days.

Respectfully submitted,

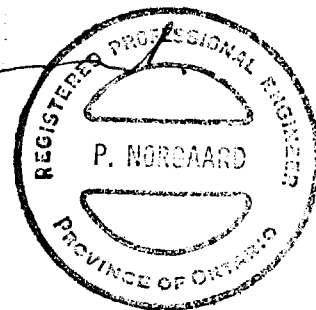
Anthony Kerr

Anthony Kerr

Senior Technician

Qualifications: Nil

P. Norgaard
Supervisor





Ontario

GEC



42G07SW0010 2.2083 CARGILL

file 2.2083.

900

RECEIVED

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

APR 14 1976

PROJECTS UNIT

Type of Survey(s) GROUND MAGNETOMETER.
Township or Area CARGILL TOWNSHIP.
Claim Holder(s) INTERNATIONAL MINERALS
CHEMICAL CORP. CANADA LTD.
Survey Company GEOTERREX LTD.
Author of Report A. KERR.
Address of Author 2060 WALKLEY RD, OTTAWA, Ont
Covering Dates of Survey Oct 22/75 to Dec 1/75
(line cutting to office)
Total Miles of Line Cut 23.9

MINING CLAIMS TRAVERSED	
List numerically	
P. 409094 ✓	
(prefix) (number)	
409095 ✓	
409099 ✓	
409100 ✓	
409103 1/3	
409104 1/2	
409052 ✓	
420249 1/4	
420250 3/4	
420253 1/2	
424461 ✓	
424462 ✓	
424463 1/2	
424467 1/3	
424468 ✓	
area of claim not covered = 3	
$15 \times 40 = 600 \div (15 + 3) = 33$	
days per claim	
TOTAL CLAIMS <u>15</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical - Electromagnetic _____ - Magnetometer <u>40</u> - Radiometric _____
ENTER 20 days for each additional survey using same grid.	- Other _____ Geological _____ Geochemical _____

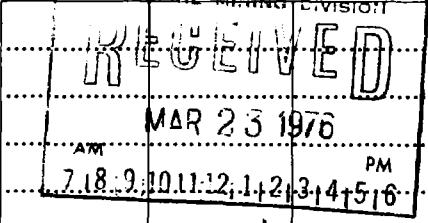
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: MAR 16/76 SIGNATURE: [Signature]
Author of Report or Agency

Res. Geol. L.D. Qualifications 63A.462

File No.	Type	Date	Claim Holder
2.1907	Airborne		



OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1300 Number of Readings 1300

Station interval 25 ; 12.5 meters Line spacing 100 meters

Profile scale _____

Contour interval 500 gmmms

MAGNETIC

Instrument G-816 Proton Precession Magnetometer

Accuracy – Scale constant ±1 gmmms

Diurnal correction method _____

Base Station check-in interval (hours) Once on each grid

Base Station location and value Once on each grid

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

Cumming Twp.

THE TOWNSHIP
OF 2.2083

CARGILL

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- | | |
|-----------------------|--------|
| PATENTED LAND | ⊗ |
| CROWN LAND SALE | C.S. |
| LEASES | ⊙ |
| LOCATED LAND | Loc. |
| LICENSE OF OCCUPATION | L.O. |
| MINING RIGHTS ONLY | M.R.O. |
| SURFACE RIGHTS ONLY | S.R.O. |
| ROADS | — |
| IMPROVED ROADS | — |
| KING'S HIGHWAYS | — |
| RAILWAYS | — |
| POWER LINES | — |
| MARSH OR MUSKEG | — |
| MINES | ⊗ |
| CANCELLED | C. |

NOTES

Water Power Reserve No 13 On White Otter Falls To Spruce Falls Power & Paper Co. Ltd. File 35146 Vol. 2
400' Surface Rights Reservation around all Lakes and Rivers.

DATE OF ISSUE

APR 21 1976

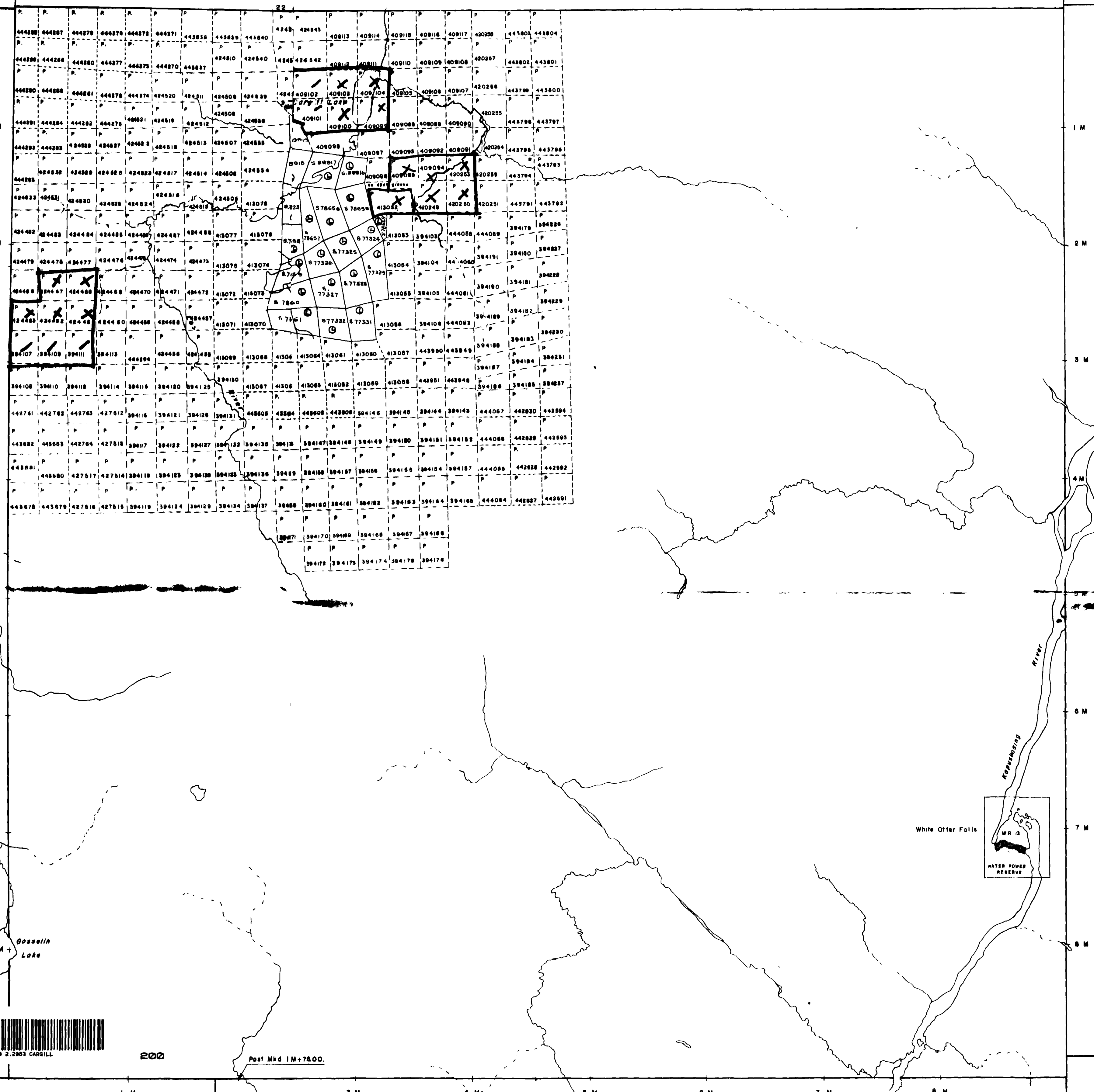
SURVEYS AND MAPPING
BRANCH

PLAN NO - M.701

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Ecclestone Twp.

Sulman Twp.



200

Post Mkd 1M+76.00.

Bourinot Twp.

Shanly Twp.

TOWNSHIP
CUMMING

OWENS
TOWNSHIP

Town of
KARUSKATING

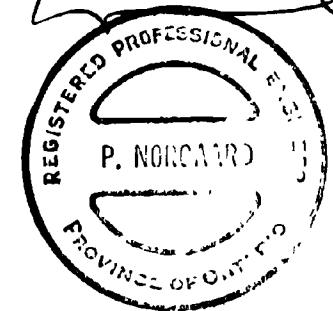
LOST RIVER

All weather road

KARUSKATING
RIVER

GRID NO 2

GRID NO 3

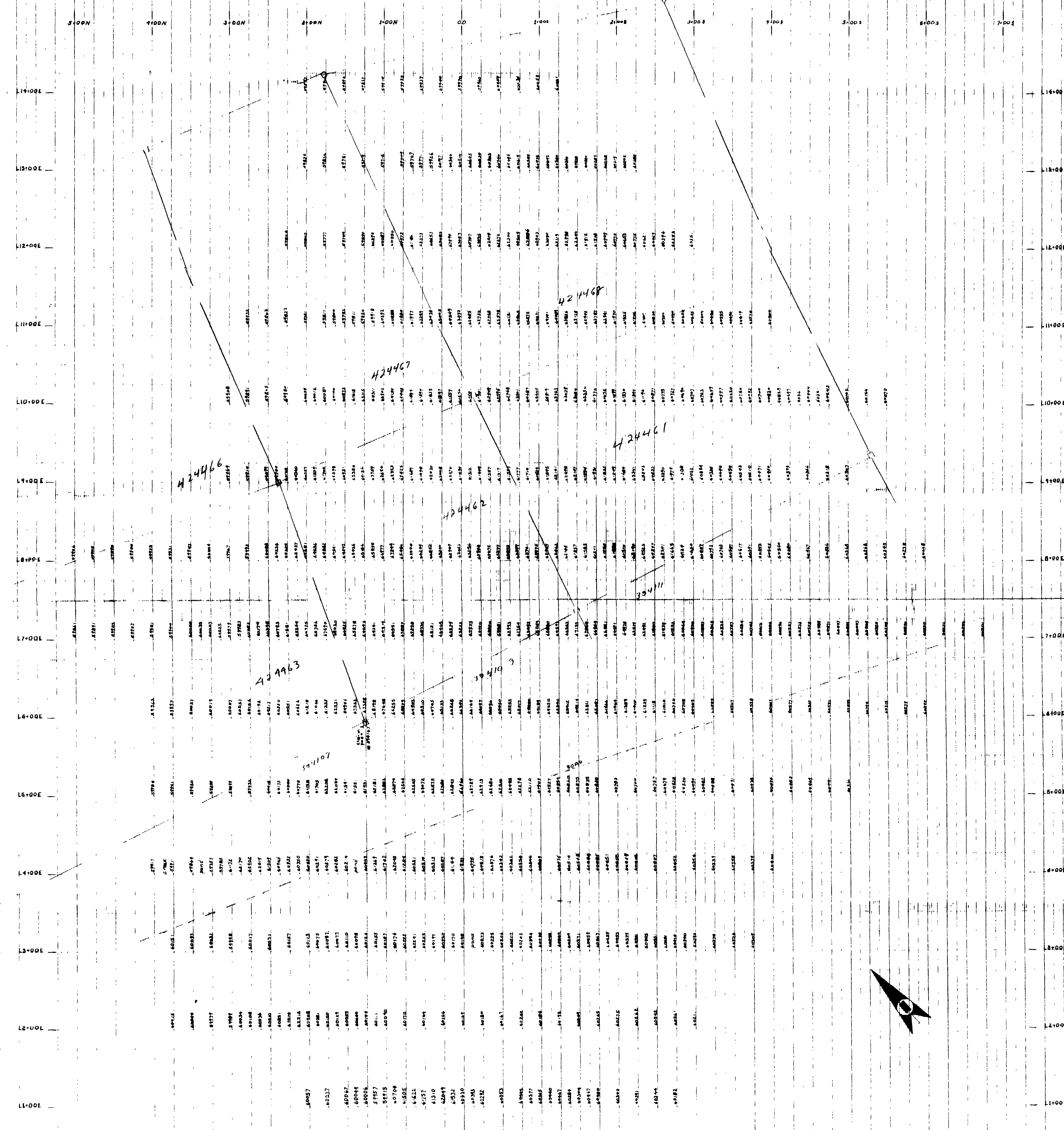


LOCATION / ACCESS MAP
Scale: 1 inch = 2 MI
R.W. McBain Jan/76
I.M.C. CARGILL PROJECT
GROUND MAGNETIC SURVEYS

CARGILL
TOWNSHIP

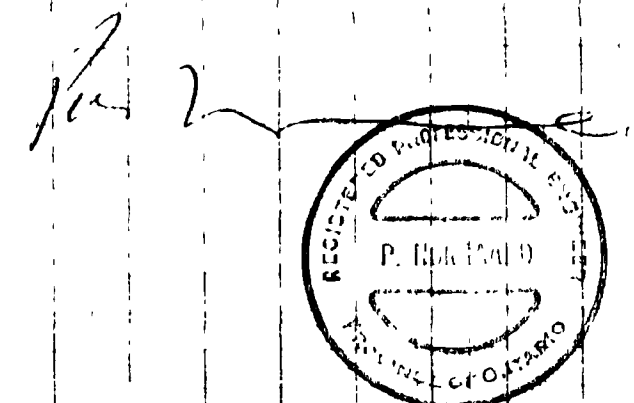
SULMAN
TOWNSHIP





MAGNETIC NUMERICAL VALUE PLAN MAP GRID, # 1

LOCATION
ROAD INTERSECTS THE BASE LINE
AT 42446. APPROX WEST OF
THE GATE AT LAST RIVER



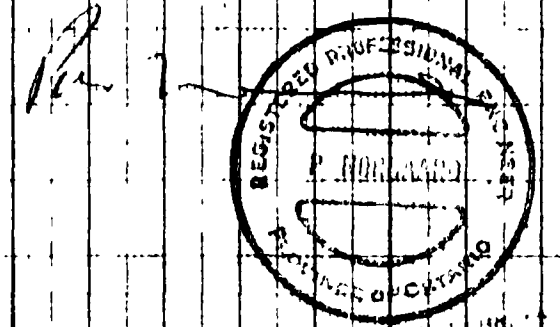
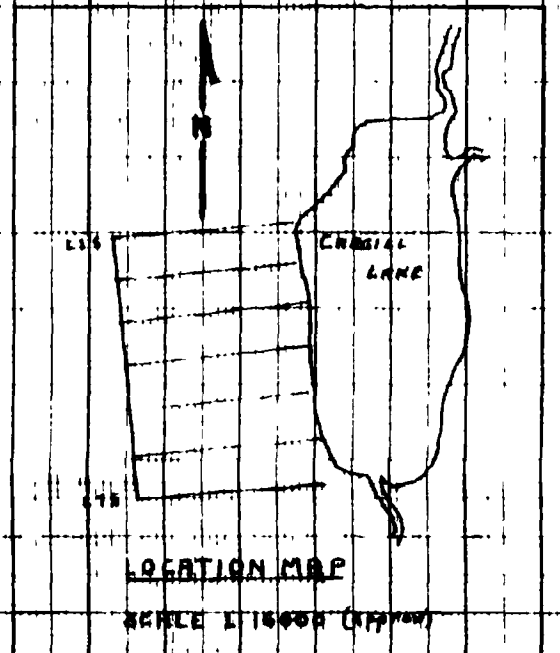
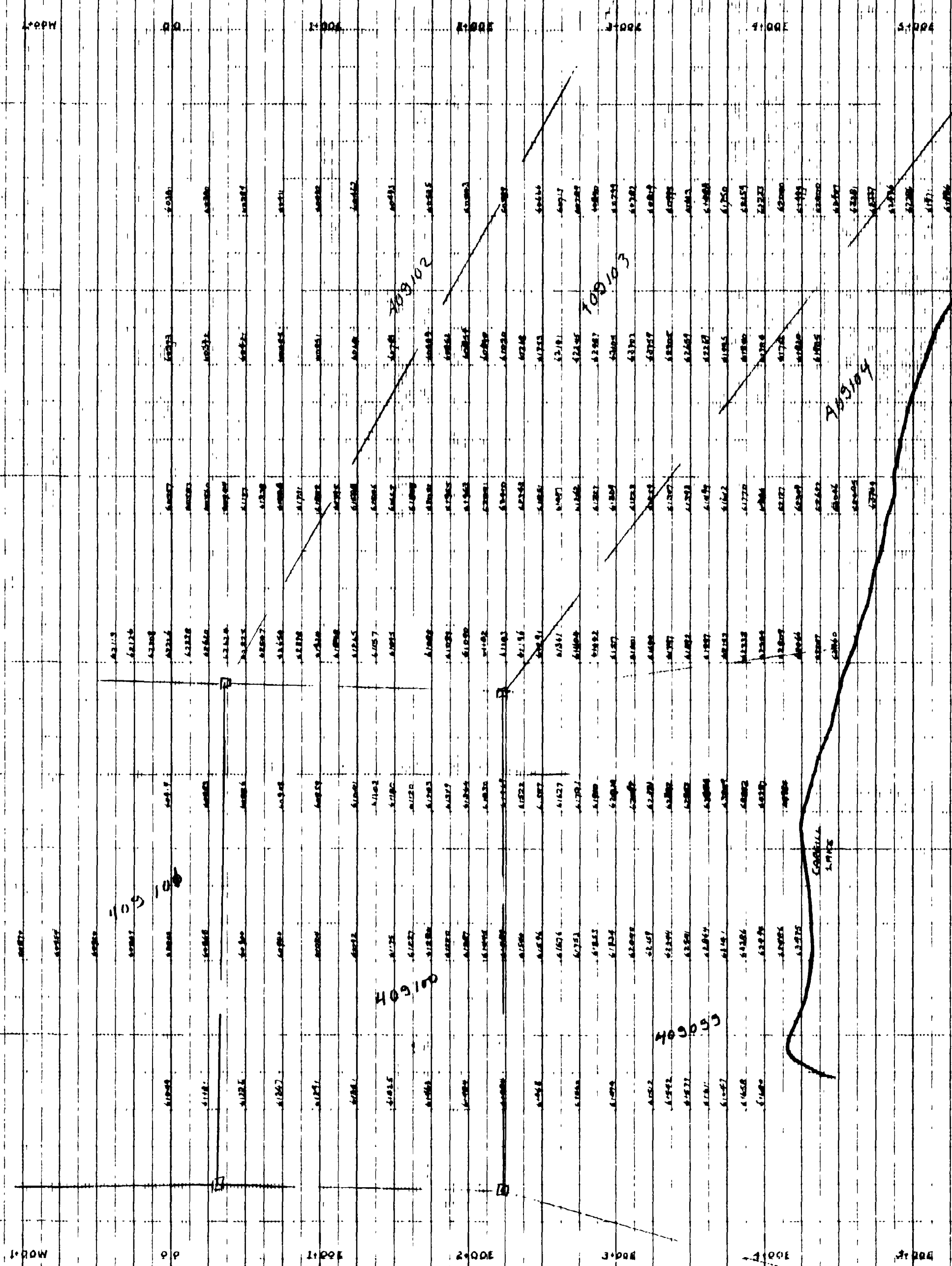
	SURVEYED & COMPILED BY geotrex	FOR INTERNATIONAL MINERALS & CHEMICAL CORPORATION
	TOTAL FIELD GROUND MAGNETIC SURVEY (MID) # 1	
Scales: 1:2500	INSTRUMENT GB16 NUCLEAR PRECESSION MAGNETOMETER	
SURVEYED BY: KFR DATE: NOV 1973		PLOTTED BY: A.K. GEOTREX PROJECT NO. 202




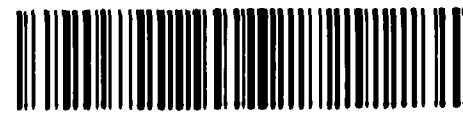


230

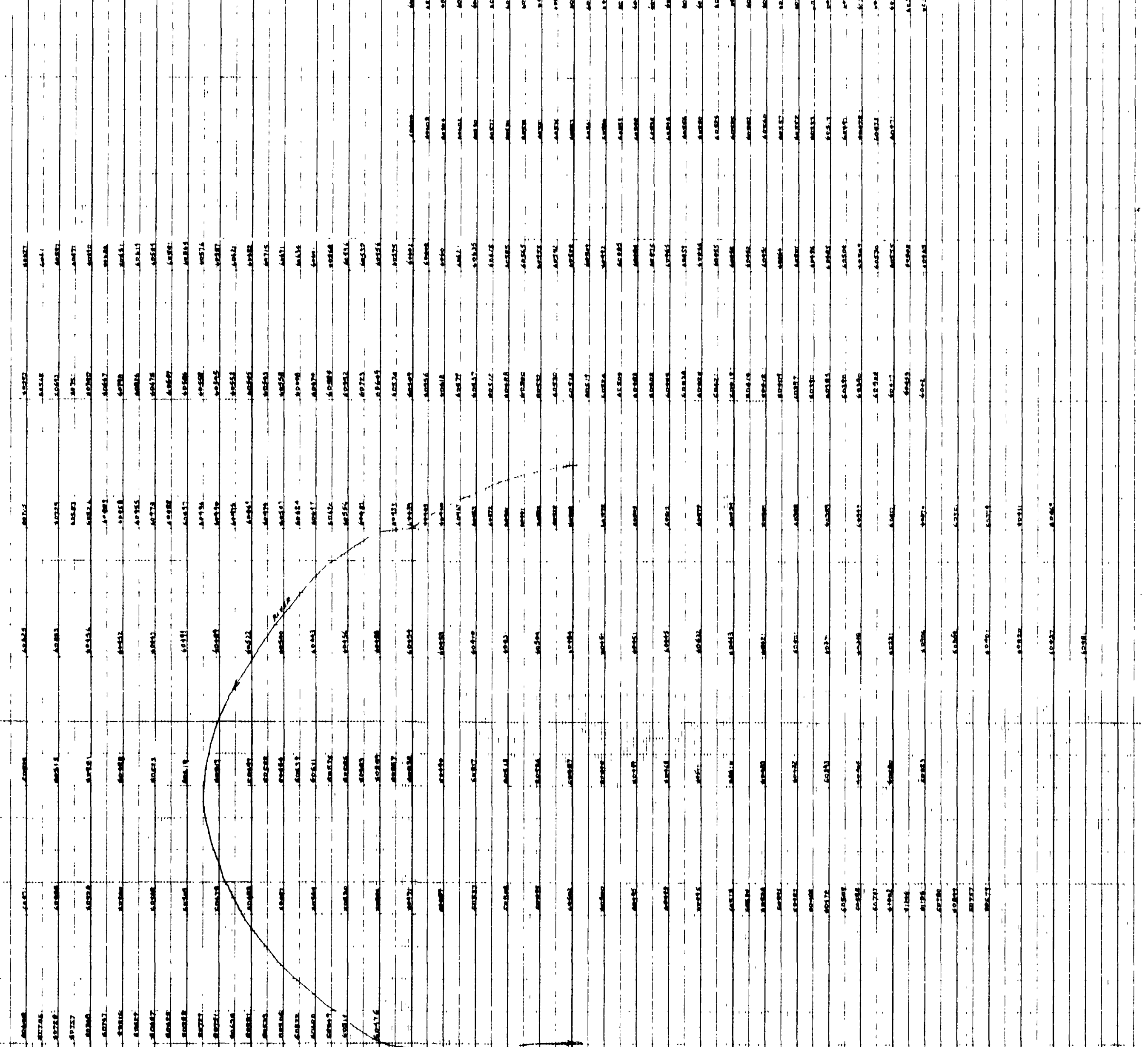
MAGNETIC NUMERICAL VALUE PLAN MAP GRID #2



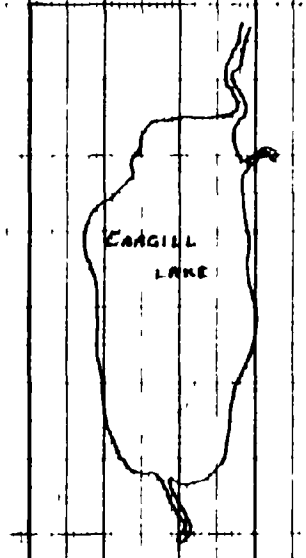
 SURVEYED & COMPILED BY geoterrex <small>INC.</small>	FOR INTERNATIONAL MINERALS & CHEMICAL CORPORATION
	TOTAL FIELD GROUND MAGNETIC SURVEY GRID #2
Scales: 1 2,500	INSTRUMENT G 616 NUCLEAR PRECESSION MAGNETOMETER
SURVEY BY KERR DATE NOV 1975	PLOTTED BY AK GEOTERRIX PROJECT NO. 00 708



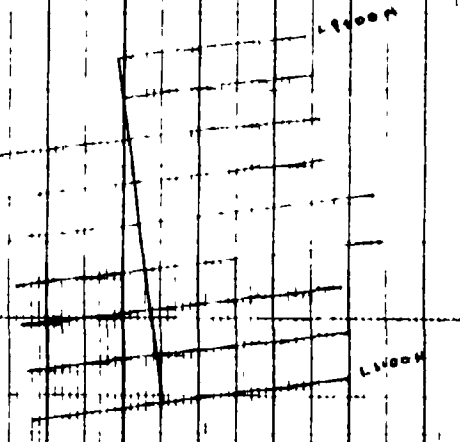
N 00 0 N
1 00 0 N
2 00 0 N
3 00 0 N
4 00 0 N
5 00 0 N
6 00 0 N
7 00 0 N
8 00 0 N
9 00 0 N



1 00 0 W
2 00 0 W
3 00 0 W
4 00 0 W
5 00 0 W
6 00 0 W
7 00 0 W
8 00 0 W
9 00 0 W



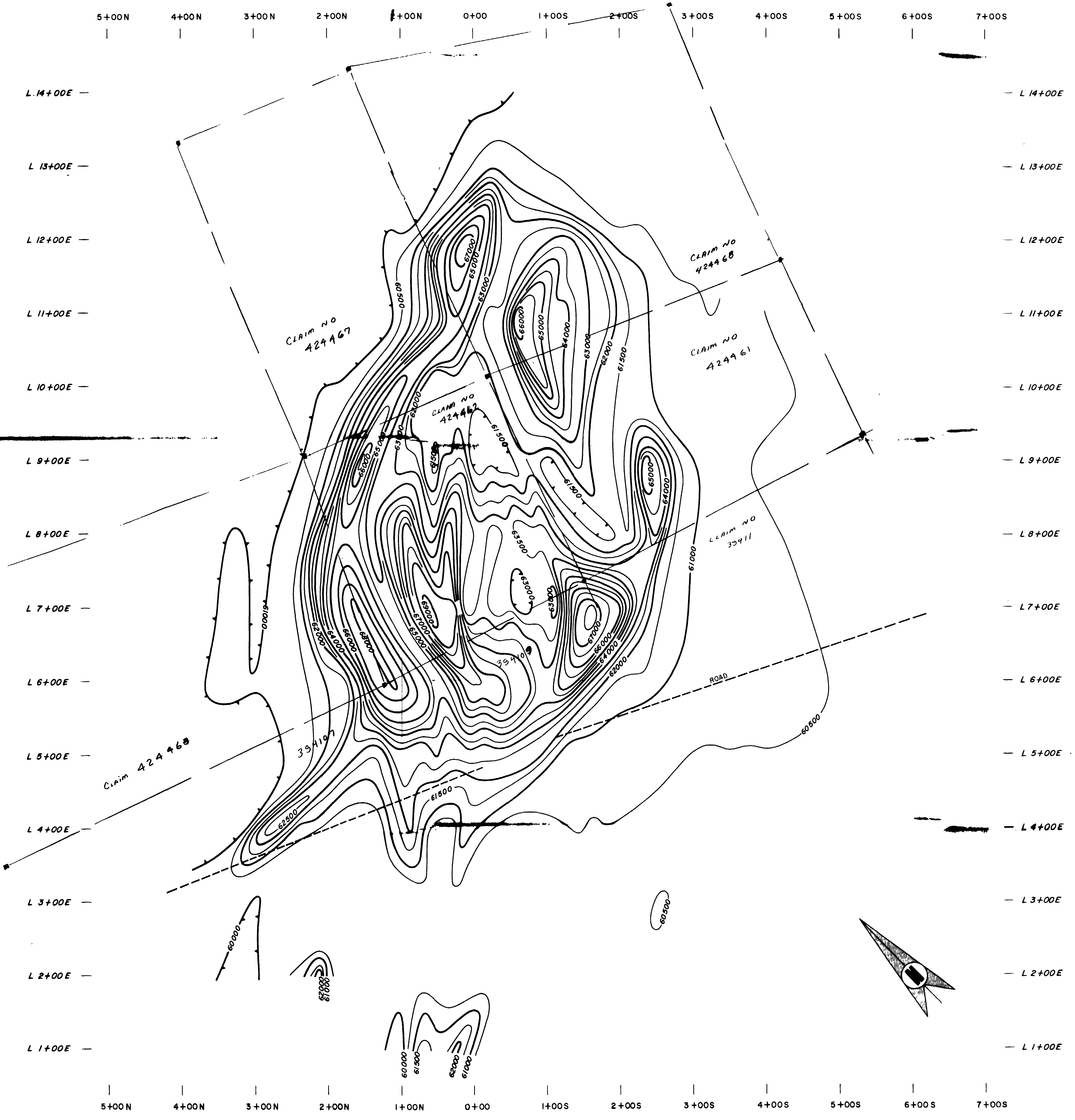
RELATION MAP
SCALE 1:16000 approx



Handwritten initials or signature.



	SURVEYED & COMPILED BY	FOR
	geotrex	INTERNATIONAL MINERALS & CHEMICAL CORPORATION
TOTAL FIELD GROUND MAGNETIC SURVEY GRID #3		
Scale:	INSTRUMENT	
1:2500	G 816 NUCLAR PRESSION MAGNETOMETER	
SURVEY BY KERR	DESIGNED BY A K	
DATE Nov 1978	GEOTREX PROJECT No. 80-788	

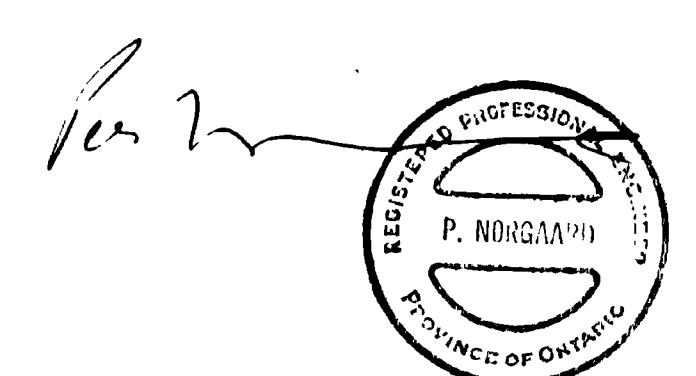
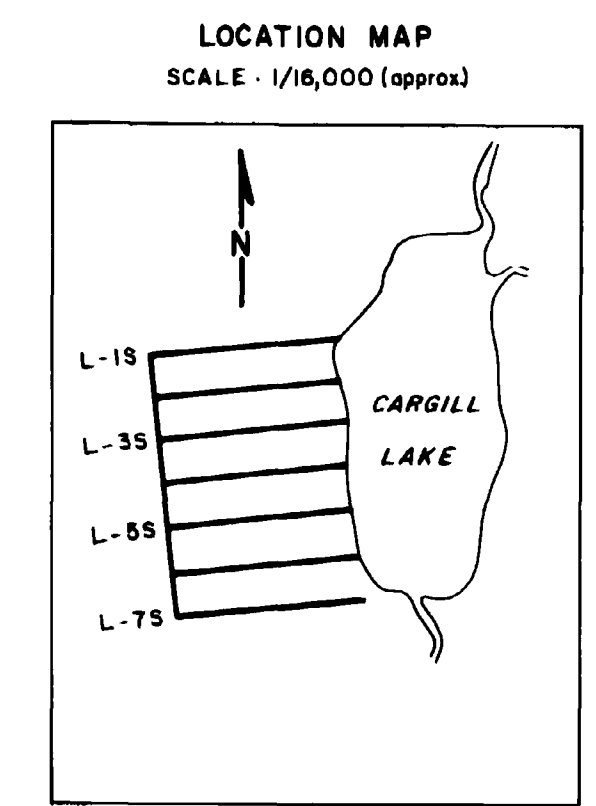
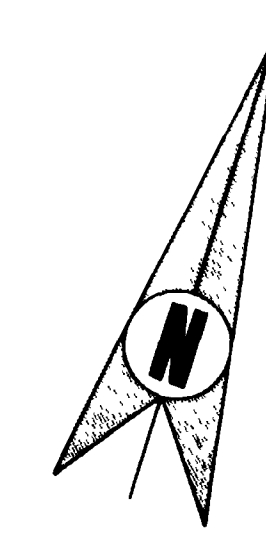
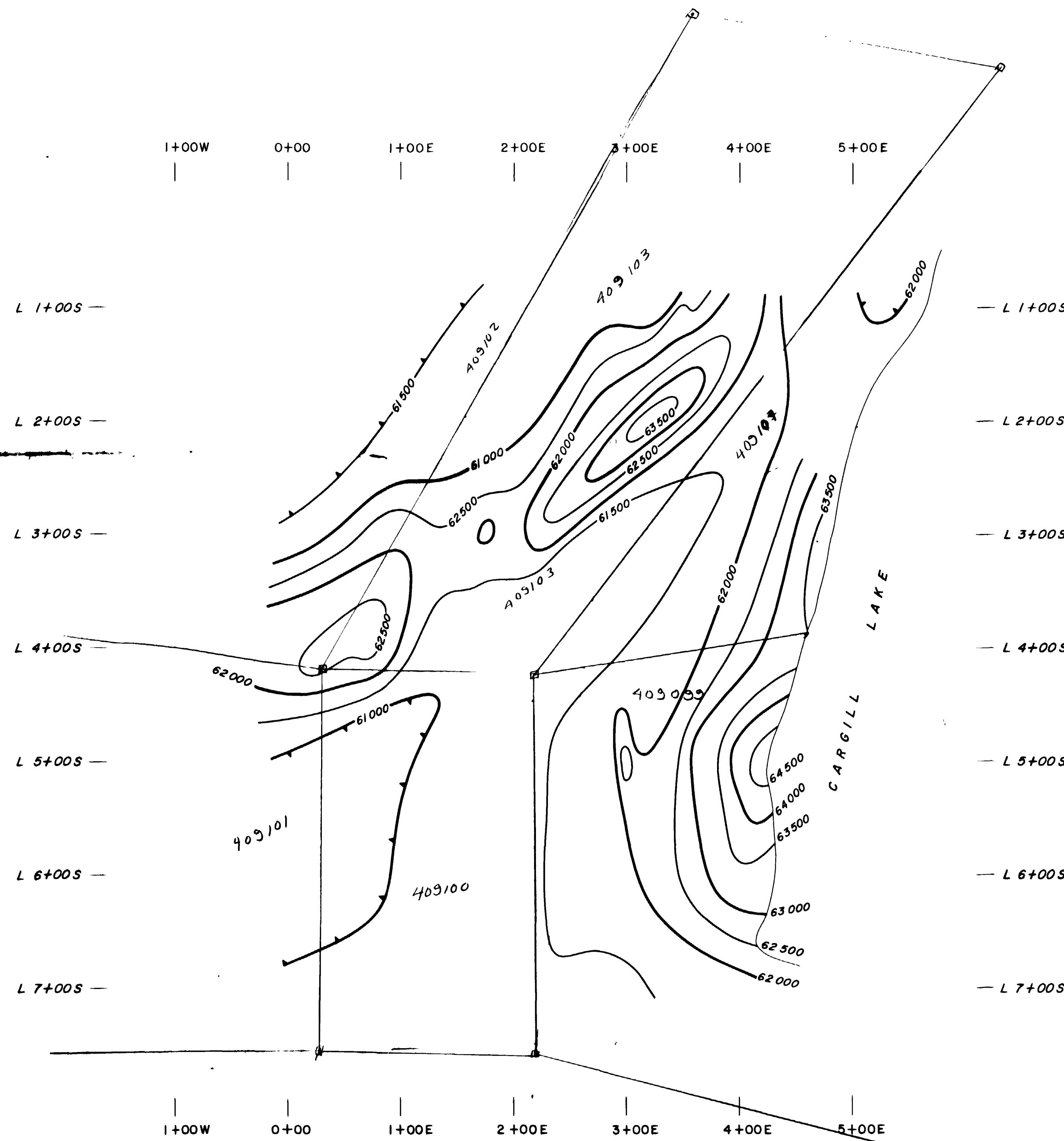


LOCATION:
 ROAD INTERSECTS THE BASE LINE
 AT 4+75E 2590M WEST OF
 THE GATE AT LOST RIVER

Per [Signature]

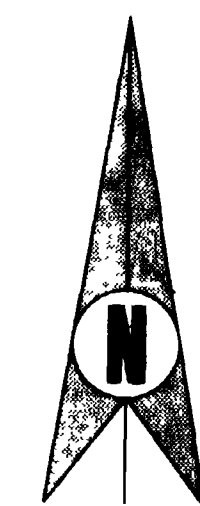
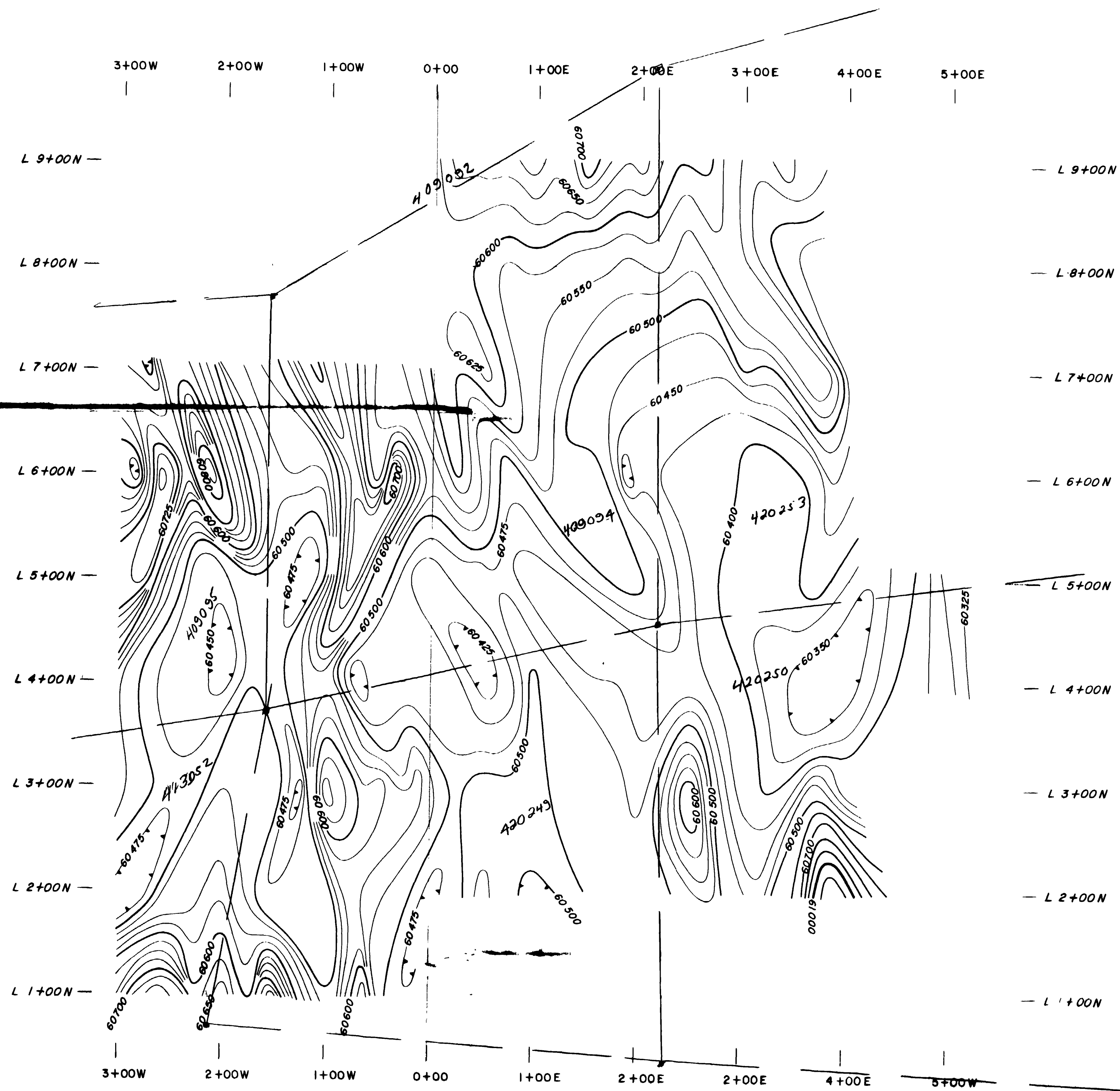
 SURVEYED & COMPILED BY geoterrex <small>INC.</small>	FOR INTERNATIONAL MINERALS AND CHEMICAL CORPORATION
	TOTAL FIELD GROUND MAGNETIC SURVEY
Scales: 1:2,500 CONTOUR INTERVAL 500	MAGNETIC CONTOUR PLAN MAP GRID # 1
Instruments: G 816 NUCLEAR PRECESSION MAGNE- TOMETER	SURVEY BY: KERR DATE: NOVEMBER 1978 PLOTTED BY: A.K. <small>(410) 963-1900 (1-800-387-1000)</small>



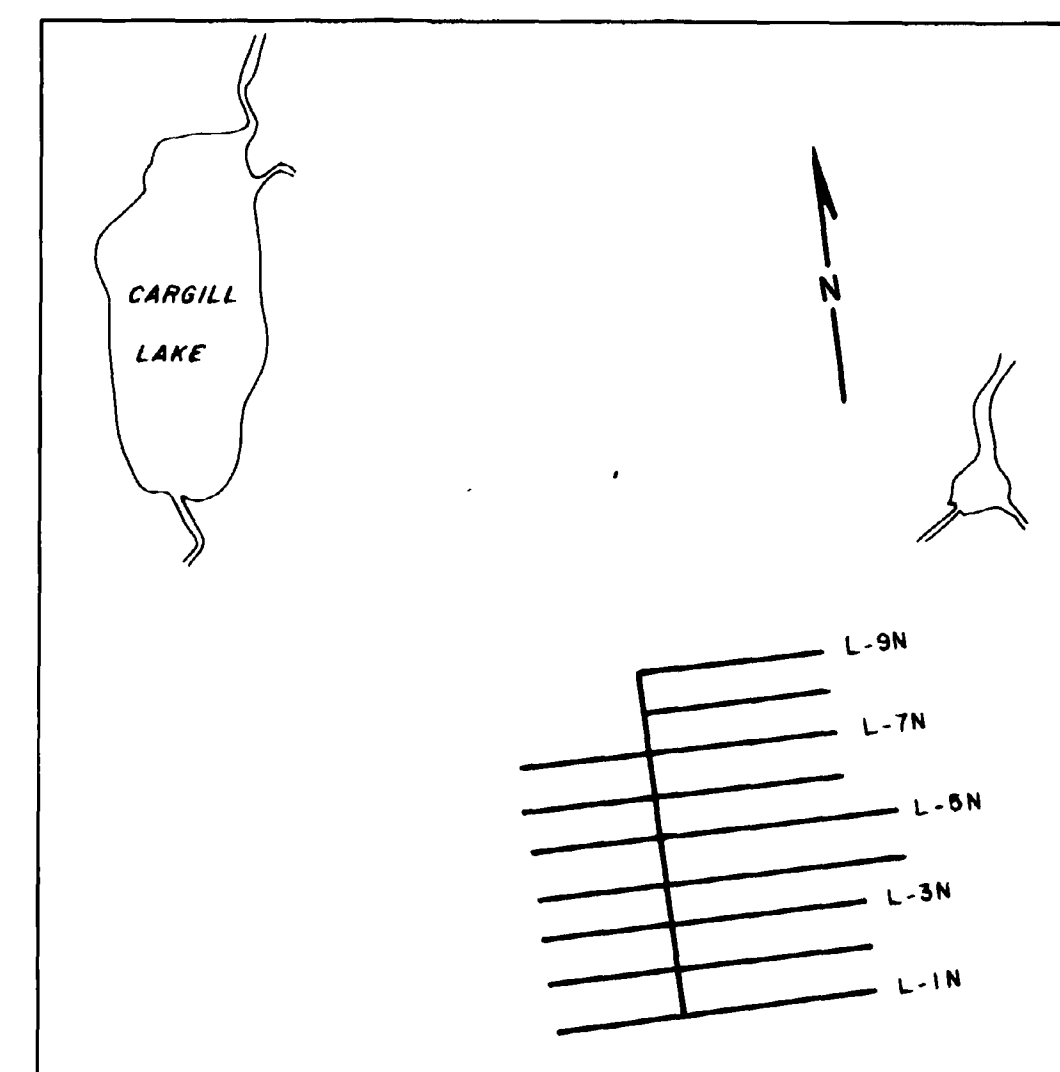


	SURVEYED & COMPILED BY geotrex	FOR INTERNATIONAL MINERALS AND CHEMICAL CORPORATION
	TOTAL FIELD GROUND MAGNETIC SURVEY	
Scales: 1:2,500 CONTOUR INTERVAL 500	MAGNETIC CONTOUR PLAN MAP GRID # 2	
Instruments: G 816 NUCLEAR PRECESSION MAGNE- TOMETER	SURVEY BY: KEAR DATE: NOVEMBER 1975	PLOTTED BY: A.K. GEOTREX PROJECT NO. 80-702





LOCATION MAP
SCALE 1/16,000 (approx)



P. N. Kerr
 REGISTERED PROFESSIONAL SURVEYOR
 P. N. KERR
 PROVINCE OF ONTARIO

	SURVEYED & COMPILED BY geoterrex	FOR INTERNATIONAL MINERALS AND CHEMICAL CORPORATION
	TOTAL FIELD GROUND MAGNETIC SURVEY	
Scales: 1 2,500 CONTOUR INTERVAL 25	MAGNETIC CONTOUR PLAN MAP GRID # 3	
Instruments: G 816 NUCLEAR PRECESSION MAGNE- TOMETER	SURVEY BY: KERR DATE: NOVEMBER 1978	PLOTTED BY: A. K. SCALE: PROJECT NO. 85-703

