



41P15NE8256 2.1855 POWELL

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TEXASGULF CANADA LIMITED
REPORT ON GEOPHYSICAL WORK
IN THE MATACHEWAN AREA
FOR: F.J. GARBUTT

RECEIVED
JUL 15 1975
PROJECTS UNIT.

Claims - L-373404 and L-373405

W.A. GASTEIGER

July, 1975

TEXASGULF CANADA LIMITED
REPORT ON GEOPHYSICAL WORK
IN THE MATACHEWAN AREA
FOR: F.J. GARBUTT

Two separate claims, optioned from F. J. Garbutt were traversed by VLF electromagnetic surveys.

Claim L-373405 is located on Cairo side of the Cairo-Flavelle Township boundary along Highway 66, claim L-373404 is in Powell Township, about two miles north and one mile west of the southwest corner of the Township.

Both claims have had previous reconnaissance magnetic and geo-chemical surveys done by Mr. Garbutt. Both can be accessed easily by car or truck and a short walk.

Geologically, both claims are on the contacts of syenite and sediments.

SURVEY RESULTS:

Claim L-373404 has N-S lines cut at 300 foot intervals.

Dip angle readings were taken and a few crossovers, indicative of very poor conductors, were located. The most noticeable crossover, at 1+50S on Lines 0 and 3E occurred in a wet area and may be a result of wet,

weakly conductive overburden.

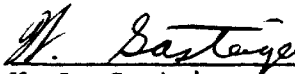
Claim L-373405 shows no indications of any sort of conductive response. Lines were cut at N45°W to cross the strike of the syenite-sediment contact.

RECOMMENDATIONS:

Very low frequency electromagnetic methods are used to locate poor conductors. The main purpose of these surveys was to determine if any sort of structural features, such as faults or shear zones, or weakly mineralized zones, could be detected in the syenite, since the syenite would not be very responsive to electromagnetic surveys of lower frequency.

Claim L-373404 should be looked at geologically to determine if any of these responses are bedrock expressions or just surficial effects.

WAG/gc


W. A. Gasteiger
July, 1975



Ministry of Natu

GEOPHYSICAL - GEOLOGI
TECHNICAL DATA



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900

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.

RECEIVED

JUL 15 1975

PROJECTS UNIT

Type of Survey(s) Geophysical
Township or Area Powell
Claim Holder(s) Texasgulf Canada Limited
P.O. Box 175, Suite 5000, Commerce Court, Toronto
Survey Company Same as above M5L 1E7
Author of Report W.A. Gasteiger
Address of Author P.O. Box 1140, Timmins, Ontario
Covering Dates of Survey May /75 to June /75
(linecutting to office)
Total Miles of Line Cut 1.5

MINING CLAIMS TRAVERSED
List numerically

L 373404 - S
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
--Electromagnetic 40
--Magnetometer
--Radiometric
--Other
Geological
Geochemical

DAYS
per claim

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

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

DATE: July 10/75 SIGNATURE: W. Gasteiger
Author of Report or Agent

Res. Geol. L.D Qualifications 2.1798

Previous Surveys

File No.	Type	Date	Claim Holder
63.1679	geological	1966	Canadian Northern
63.1530	mag	1964	B. Nixon Apple
2.1529	EM	1965	Tet-Sol
2.1532	geochem	1974	F. J. Garbath

TOTAL CLAIMS 1

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 73 Number of Readings 73
Station interval 100 feet Line spacing 300'
Profile scale 1" = 20 degrees
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

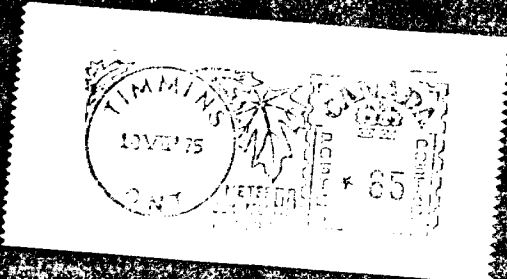
Instrument Geonics EM-16
Coil configuration
Coil separation
Accuracy + 1 degree
Method: [x] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Seattle, Washington, 18.6 KH2 (specify V.L.F. station)
Parameters measured Dip angle of the total electromagnetic field

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



Texasgulf Inc.

P.O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9

Mr. F. W. Matthews,
Supervisor, Special Projects Section
Ministry of Natural Resources,
Whitney Block, Queen's Park,
TORONTO, Ontario M7A 1X1

Return postage guaranteed.

1678

Baden Twp. (M.205)

THE TOWNSHIP OF
OF 2.1855
POWELL

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	(C.S.)
LEASES	(L)
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	(X)
CANCELLED	(=)

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

LO 7501 Covers Flooding Rights in This Twp. To Below Contour 870' CG To H.E.P.C. File 12290 Vol. 2

LO 1167 Shown True to Contour 910' CG

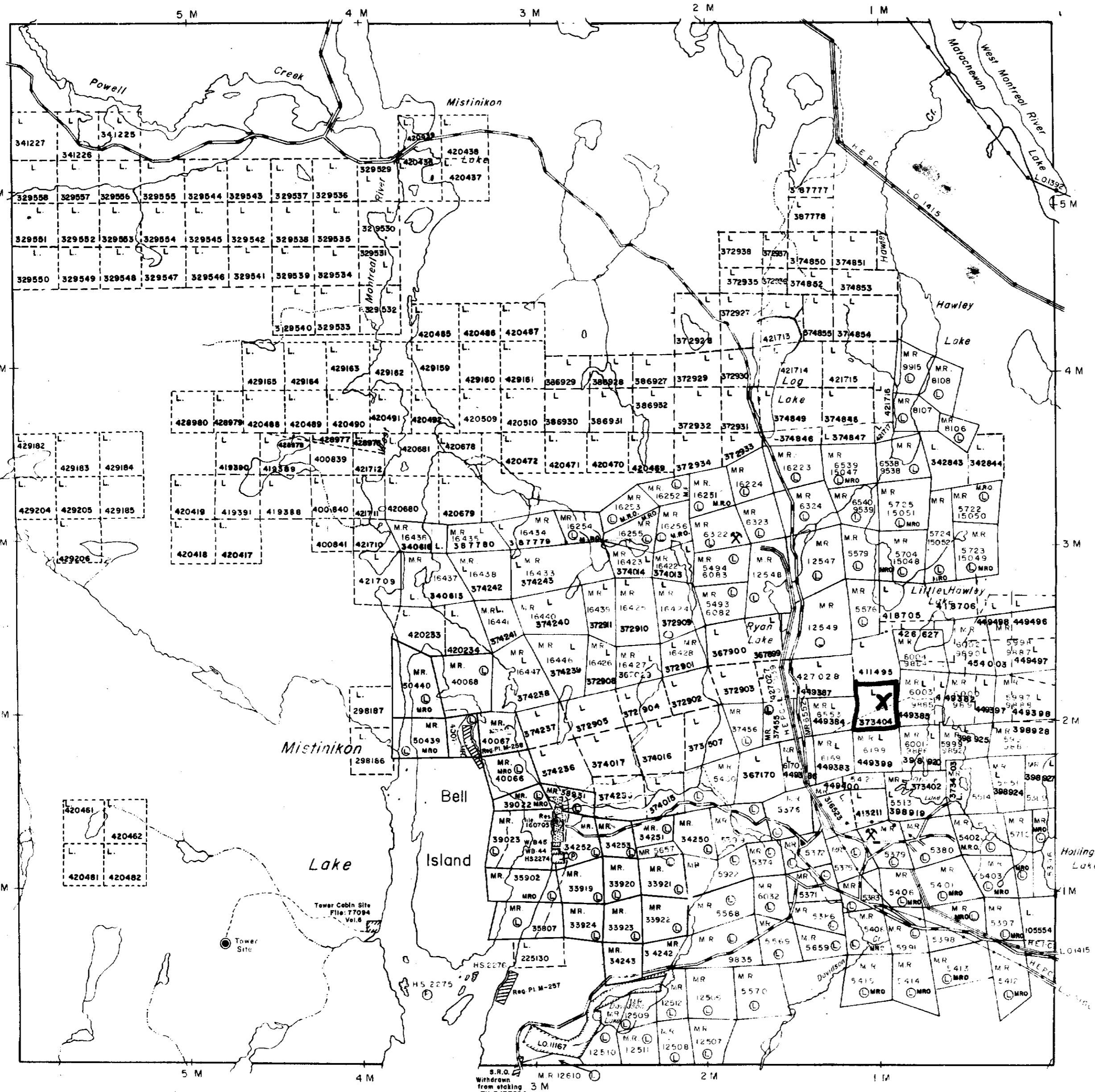
- MINING LANDS -
DATE OF ISSUE
JUL 17 1975
MINISTRY OF NATURAL RESOURCES

PLAN NO. **M.241**

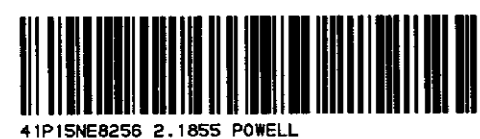
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Bannockburn Twp. (M.207)

Cairo Twp. (M.210)



Yarrow Twp. (M.260)



Alma Twp. - M.202

THE TOWNSHIP
OF **2.1855**
CAIRO

DISTRICT OF
TIMISKAMING

LARDER LAKE
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

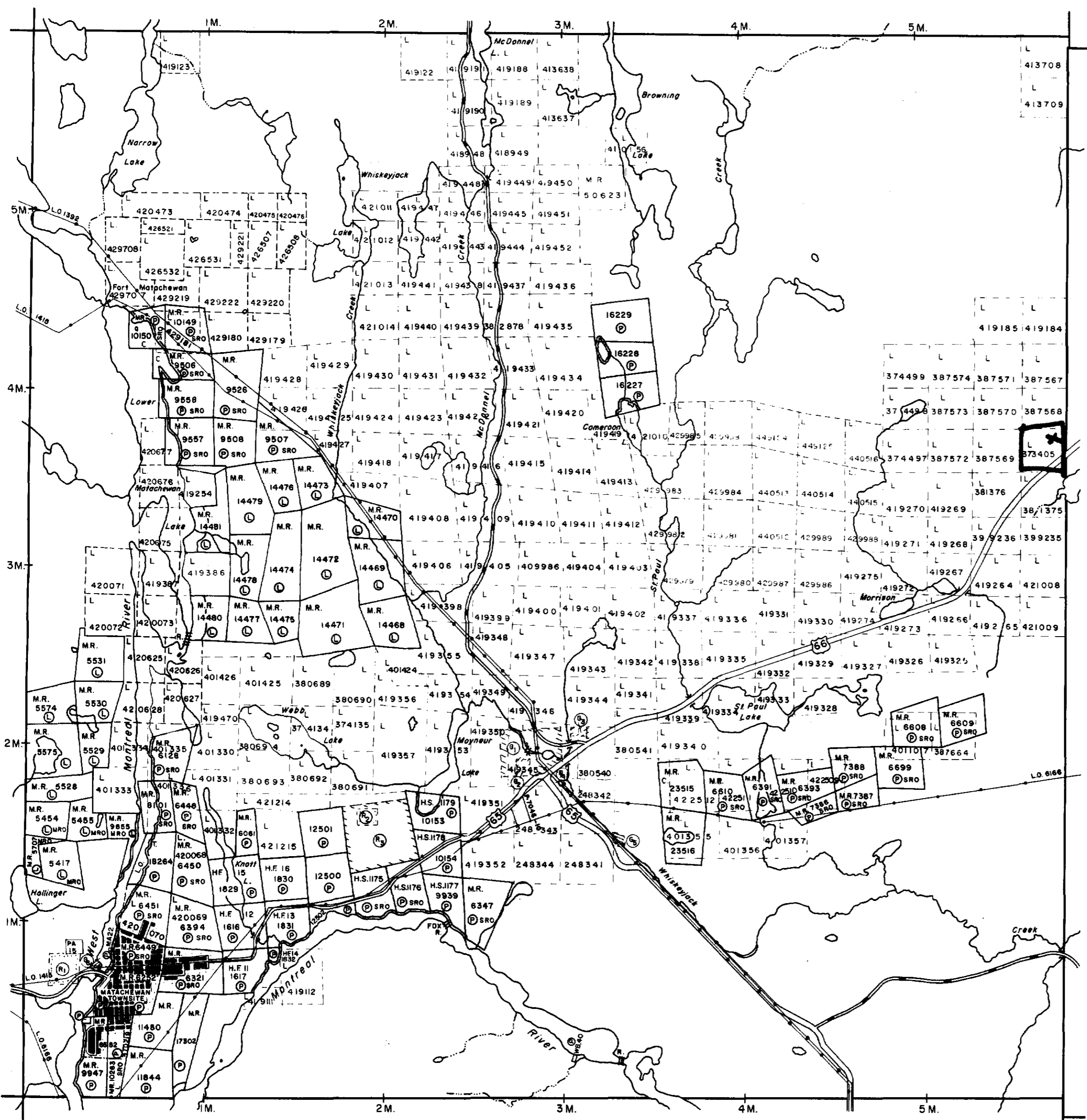
400' Surface Rights Reservation along the shores of all lakes and rivers

AREAS WITHDRAWN FROM STAKING				
S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS		
Section	Order No.	Date	Disposition	File
①	V.H.F. Tower cabin site		S.R.	15376 v.2
②	42(RSO '60)	1/8/68	S.R.	177224
③	43(RSO '70)	7/1/75	S.R.	177224

SAND and GRAVEL			
①	M.T.C. Gravel Pit 206	②	M.N.R. Gravel File 127307
②	M.T.C. Gravel Pit 1313	③	Gravel Pit 205
③	Gravel Pit 204, File 127307	④	Gravel Pit

- MINING LANDS -
DATE OF ISSUE
JUL 17 1975
MINISTRY
OF NATURAL RESOURCES

PLAN NO. **M.210**
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

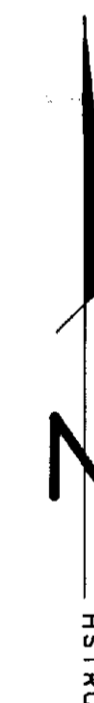
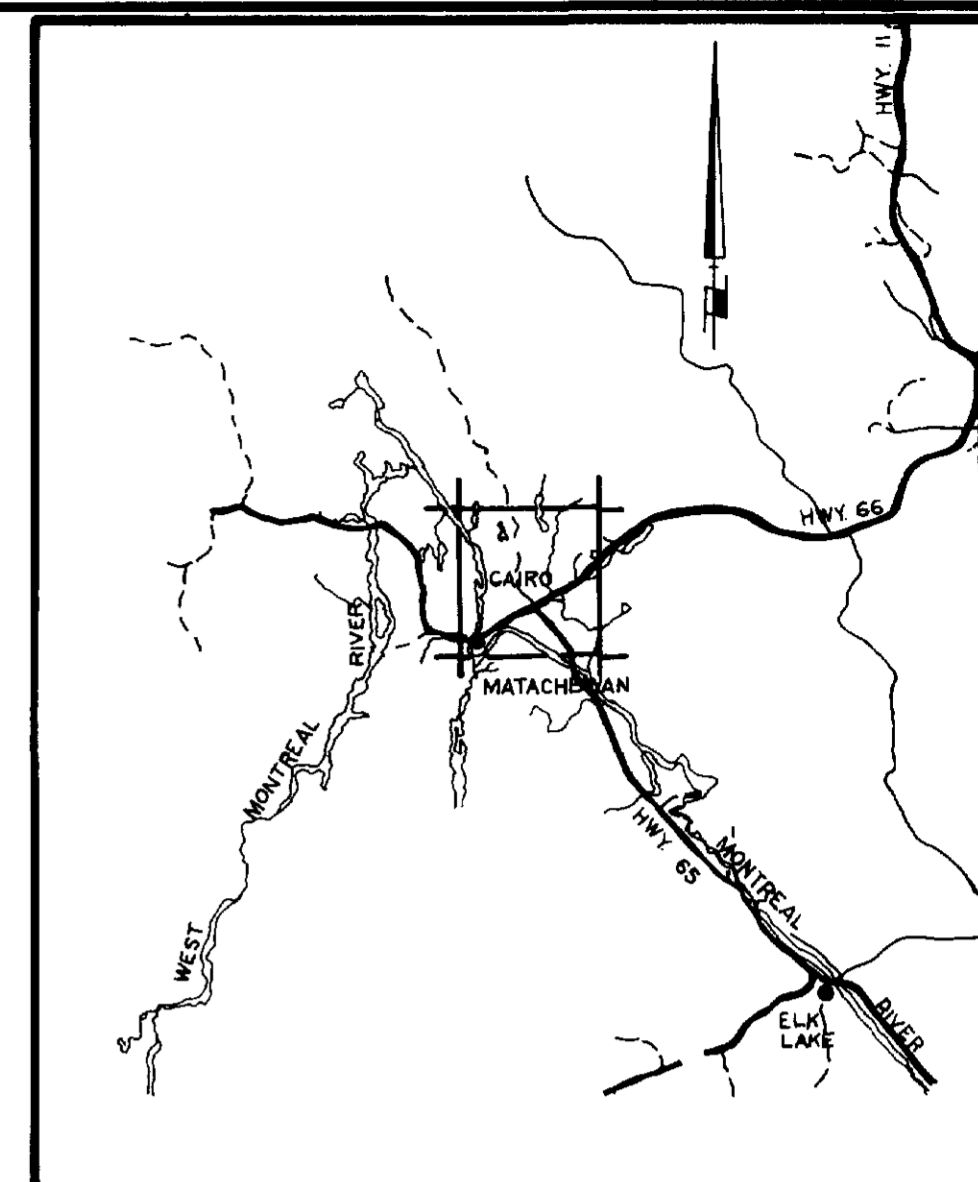
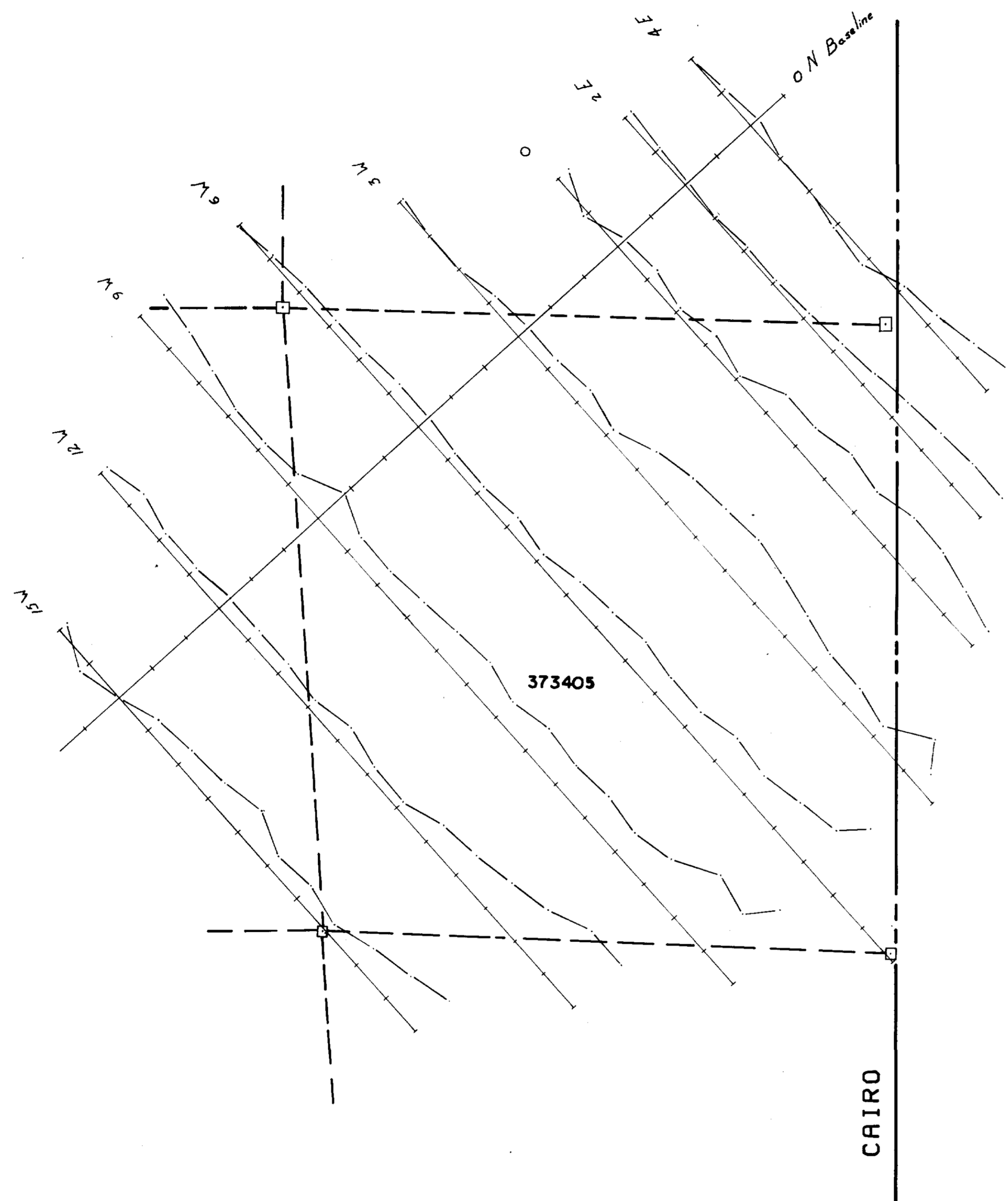


Powell Twp. - M.241

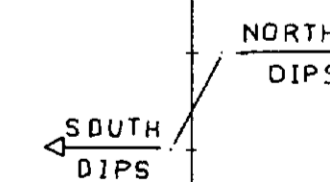
Flavelle Twp. - M.220

Kimberley Twp. - M.226





LEGEND



INSTRUMENT : CRONE RADEM
 TRANSMITTER : CUTLER, MAINE
 FREQUENCY : 17.8 KHZ
 PROFILE SCALE : 1" = 20'



TEXASGULF CANADA LTD.

V. L. F. SURVEY

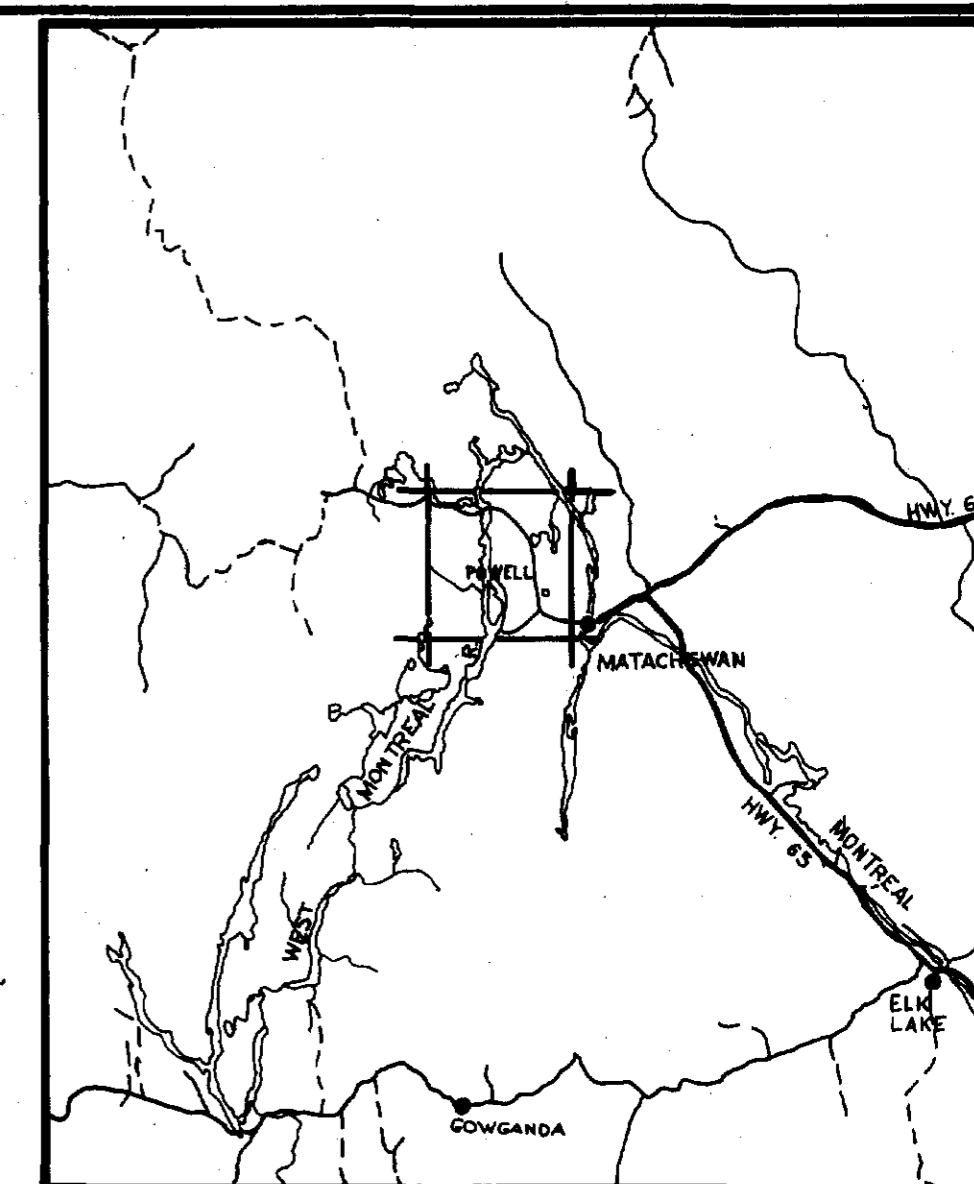
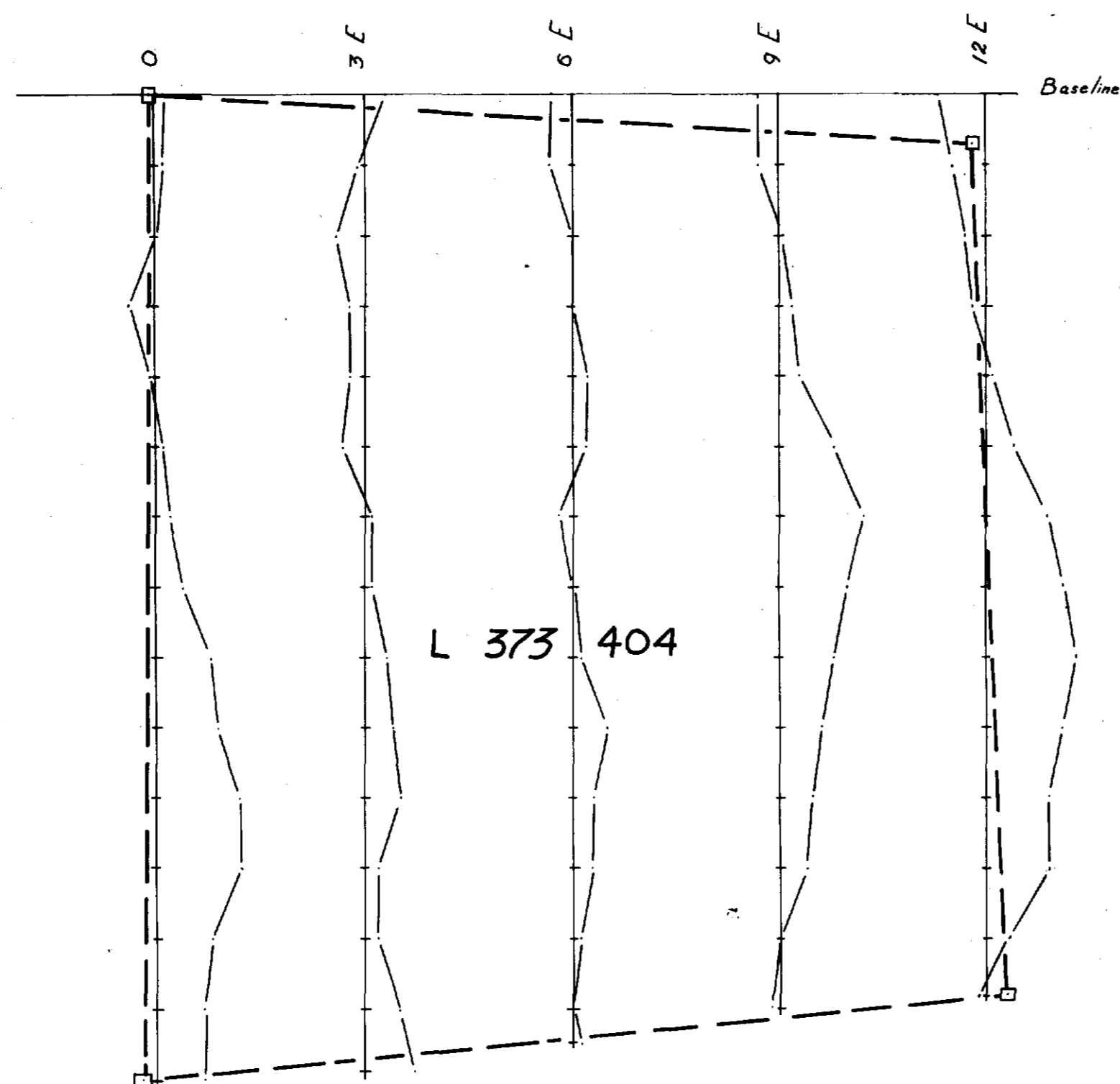
CAIRO 46

WORK BY

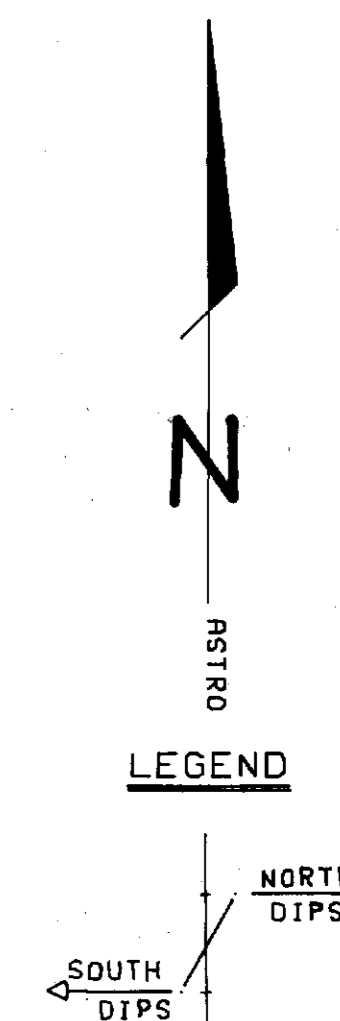
DATE

A. Boutequin





KEY MAP SCALE: 1" = 8 miles



INSTRUMENT : CRONE RADEM
TRANSMITTER : SEATTLE, WASHINGTON
FREQUENCY : 18.6 KHZ
PROFILE SCALE : 1" = 20'



TEXASGULF CANADA LTD.	
V. L. F. SURVEY	
POWELL 25	
WORK BY	DATE

2.1955

H. Gault

