



41P15NE8357 2.1679 CAIRO

010

Ecstall Mining Ltd.
Report on Geophysical Work
in
Cairo and Flavelle Townships

Claims: L 374496-374499, L 374760-374762, L 381376,
L 387565-387574, L 419184-419187

A magnetometer survey was carried out over this group of 22 contiguous claims. The claims are located in Lots 1 and 2, Con. IV and V, Cairo Township and Lots 11 and 12, Con. V, Flavelle Township.

Highway 66, which forms the southern boundary of the present grid, provides access to the property.

H. Lovell has mapped the geology of both Cairo (O.D.M. Geol. Rept. 51) and Flavelle (O.D.M. Prelim. Map P.264) Townships. It consists of an Archean volcanic-sedimentary assemblage intruded by granitic and syenitic dikes and stocks and Matachewan-type diabase dikes. Huronian sedimentary rocks of the Cobalt Group overlie the Archean rocks and are themselves intruded by Nipissing-type diabase dikes.

Previous geophysical work on the property consists of ground magnetic surveys by Dominion Gulf and Siseve Metals. However, neither survey covered all of the present claim group. Also, the grids were oriented at approximately 45° to the geological strike so that interpretation of the magnetic results did not correlate with the observed geology.

Results:

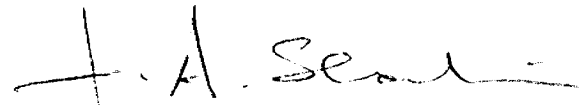
The sediments in the southern part of the claim group show up as a magnetic high. Appreciable amounts of magnetite, probably in the form of narrow discontinuous bands, are present throughout the sediments. Although the magnetite content may be quite high locally, it should not average more than 3-5% overall.

The sediment-syenite contact more or less coincides with the 1000 gamma contour and there is evidence for some inter-fingering of the two rock types. The syenite has considerable magnetic relief, particularly near the edge of the intrusive. It is likely that there has been magnetite segregation which, in view of the consistent N50°E strike of anomalies, may have

been controlled by jointing within the syenite.

There is no magnetic evidence for the three diabase dikes located east of the lake in claim L 374498 (G.R. 51).

JAS:ss



J. A. Slankis.



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.

Type of Survey(s) Geophysical
Township or Area Cairo & Flavelle Townships
Claim Holder(s) Ecstall Mining Ltd.
P.O. Box 175 Commerce Court Toronto M5L 1E7 Ontario
Survey Company Ecstall Mining Ltd.
Author of Report J. A. Slankis
Address of Author As above
Covering Dates of Survey May-December, 1974
Total Miles of Line Cut 31.7

MINING CLAIMS TRAVERSED
List numerically
Table with columns for prefix (L), number, and handwritten notes like '3/4 NC', '1/3 NC', etc.

SPECIAL PROVISIONS CREDITS REQUESTED
Table with columns for Geophysical, Geological, Geochemical and DAYS per claim.

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

DATE: JAN 3, 1975 SIGNATURE: J. A. Slankis
Author of Report or Agent

Res. Geol. Qualifications 2.686

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 2657 Number of Readings 2807
Station interval 50 Feet (25' detail) Line spacing 200' & 300'
Profile scale
Contour interval 200 Gammas

MAGNETIC

Instrument McPhar M700 Fluxgate Magnetometer
Accuracy -- Scale constant +/- 5 Gammas
Diurnal correction method Base Line read in 300' loops, corrected B.L. readings
Base Station check-in interval (hours) used to correct survey results
Base Station location and value At Line 0+00 and Base Line #1
Value = 450 Gammas

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

Alma Twp. - M.202

THE TOWNSHIP OF
OF **2.1679**
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

- Ⓟ Dump site, S.R.O. withdrawn from staking File 177224
- Ⓟ V.H.F. Tower cabin site S.R.O. reserved File 15376. V.2.
- Ⓟ M.T.C. Gravel Pit 206
- Ⓟ M.N.R. Gravel F.127307
- Ⓟ M.T.C. Pit 1313
- Ⓟ Gravel Pit 205
- Ⓟ Gravel Pit 204 F.127307
- Ⓟ Gravel Pit

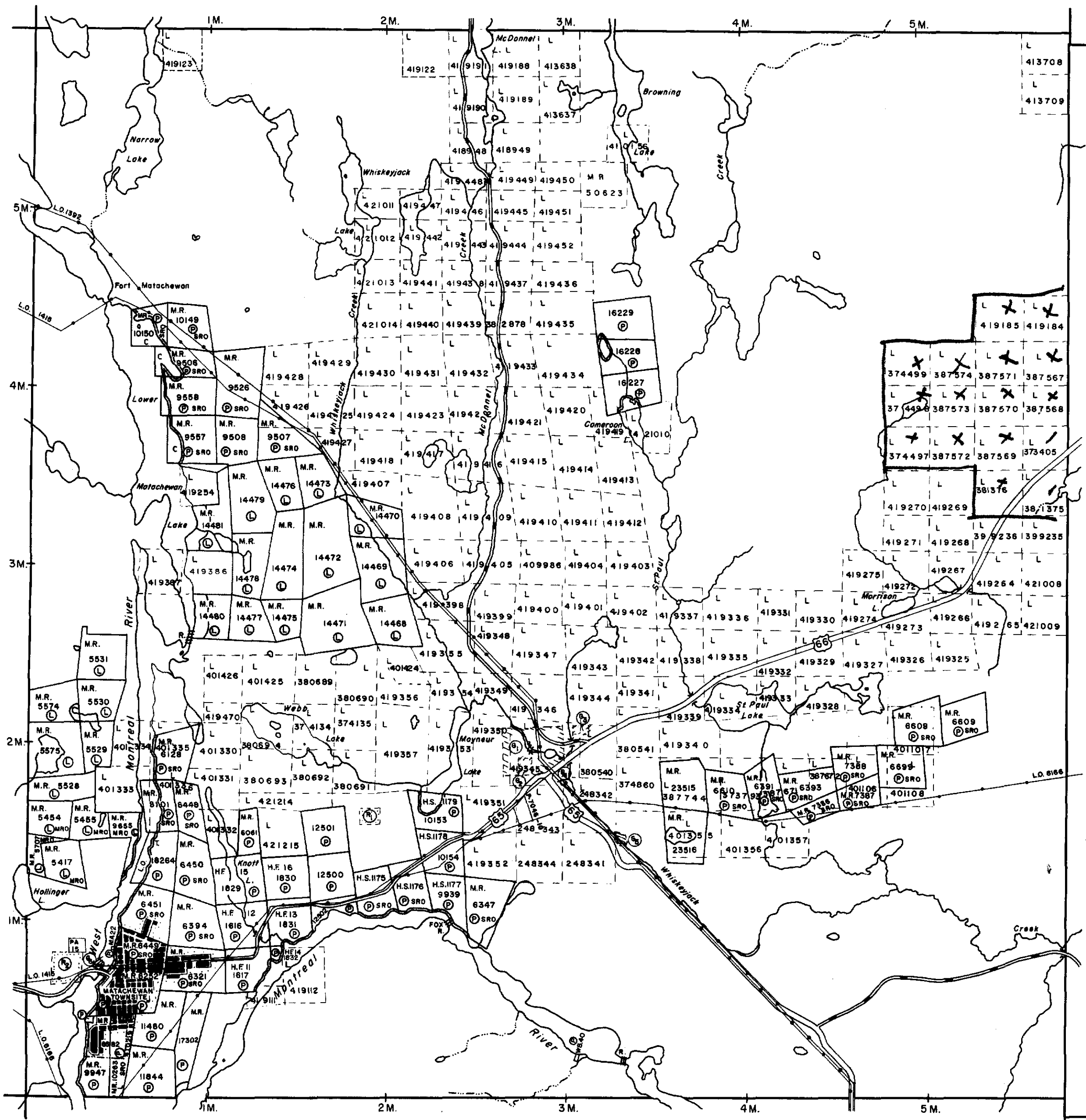
MINING LANDS
DATE OF ISSUE
JAN - 7 1975
MINISTRY OF NATURAL RESOURCES

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



NOTES

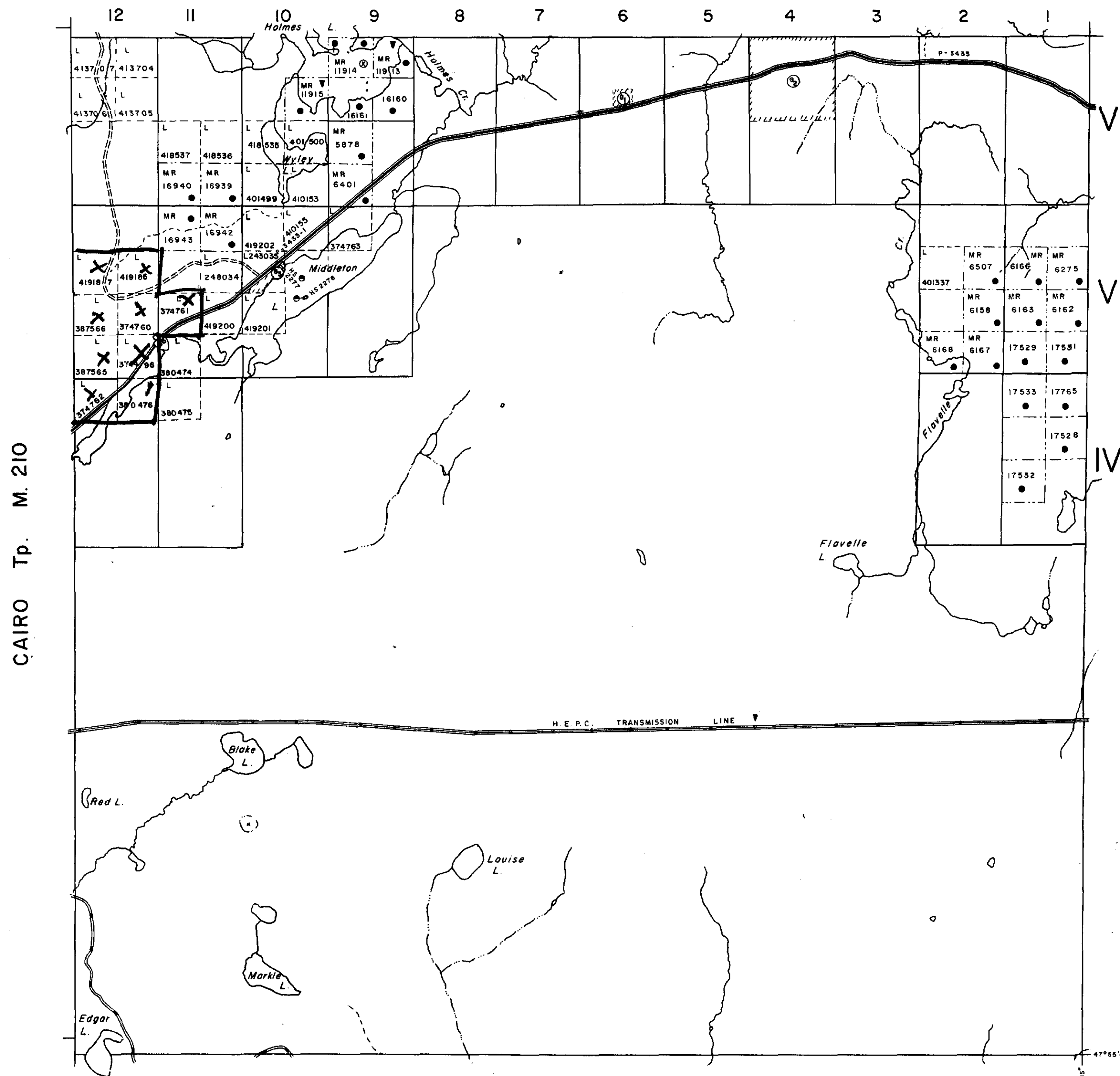
400' surface rights reservation along the shores of all lakes and rivers.

The subdivision of this Township into lots and concessions is partially annulled. December 3rd 1963

- ① M.T.C. Gravel Pit 203
- ② M.T.C. Gravel Pit 199
- ③ M.T.C. Pit 1394

MINING LANDS
DATE OF ISSUE
JAN - 7 1975
MINISTRY OF NATURAL RESOURCES

HOLMES Tp. M. 224

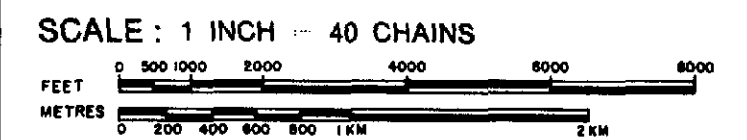


LEGEND

- 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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	▼
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕



ACRES	HECTARES
40	16

TOWNSHIP

FLAVELLE

DISTRICT

TIMISKAMING

MINING DIVISION

LARDER LAKE

Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date Feb '73

Plan No.

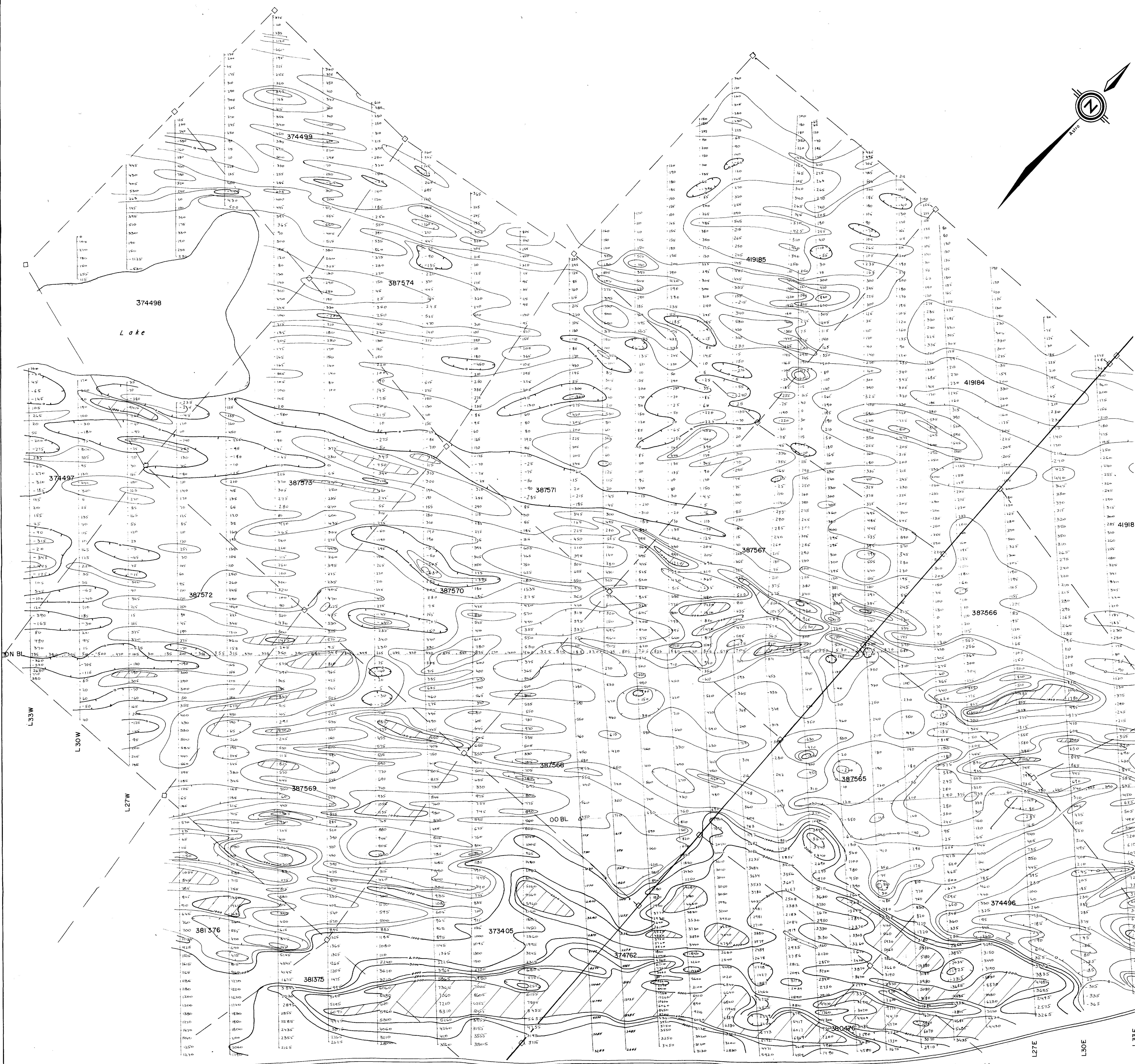
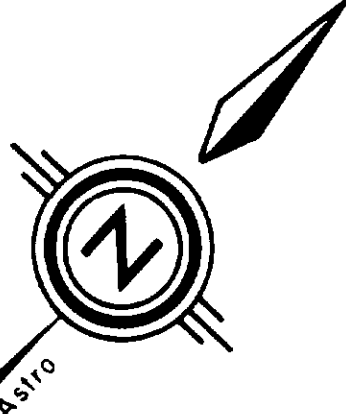
Whitney Block
 Queen's Park, Toronto

M. 220



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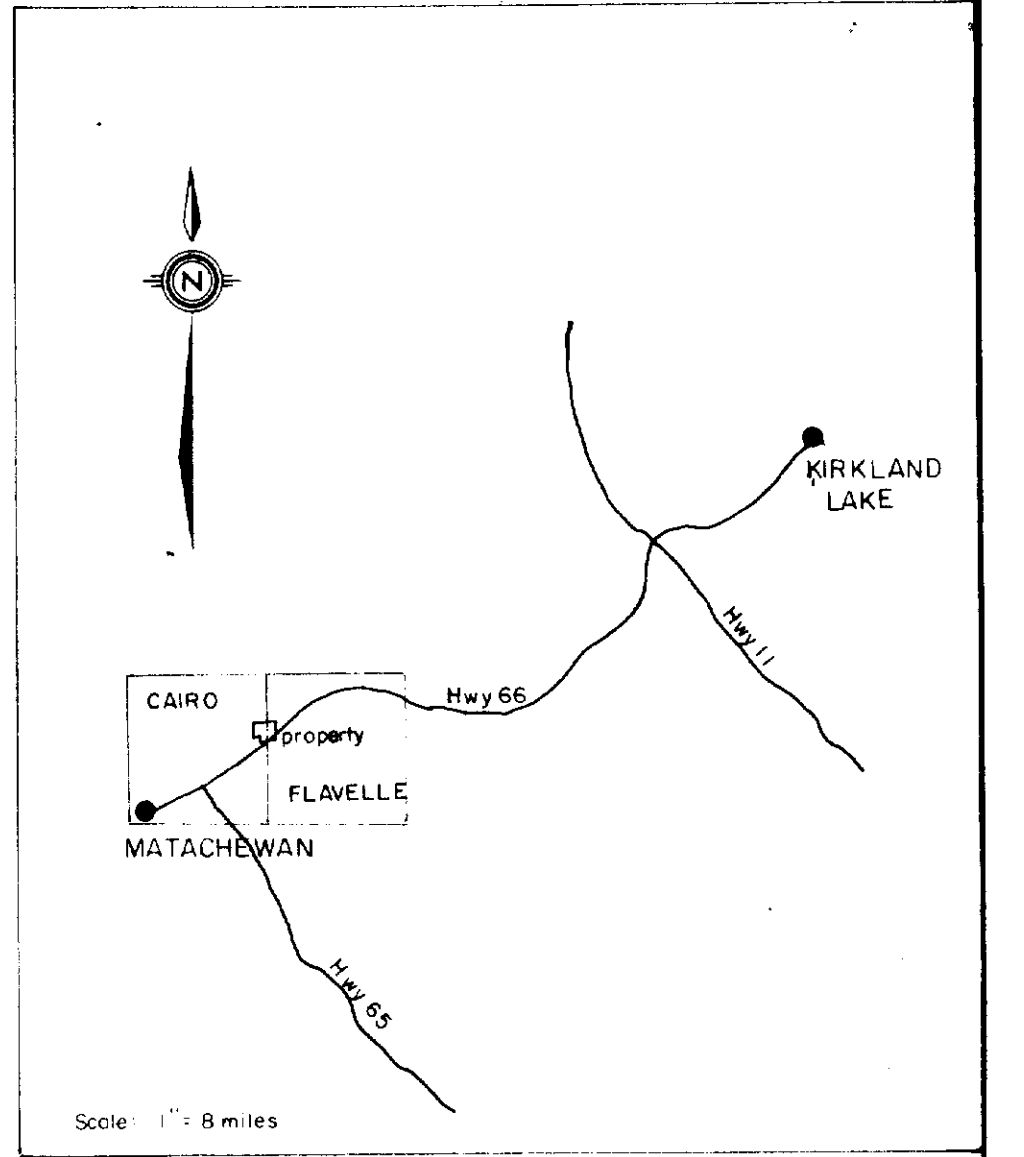
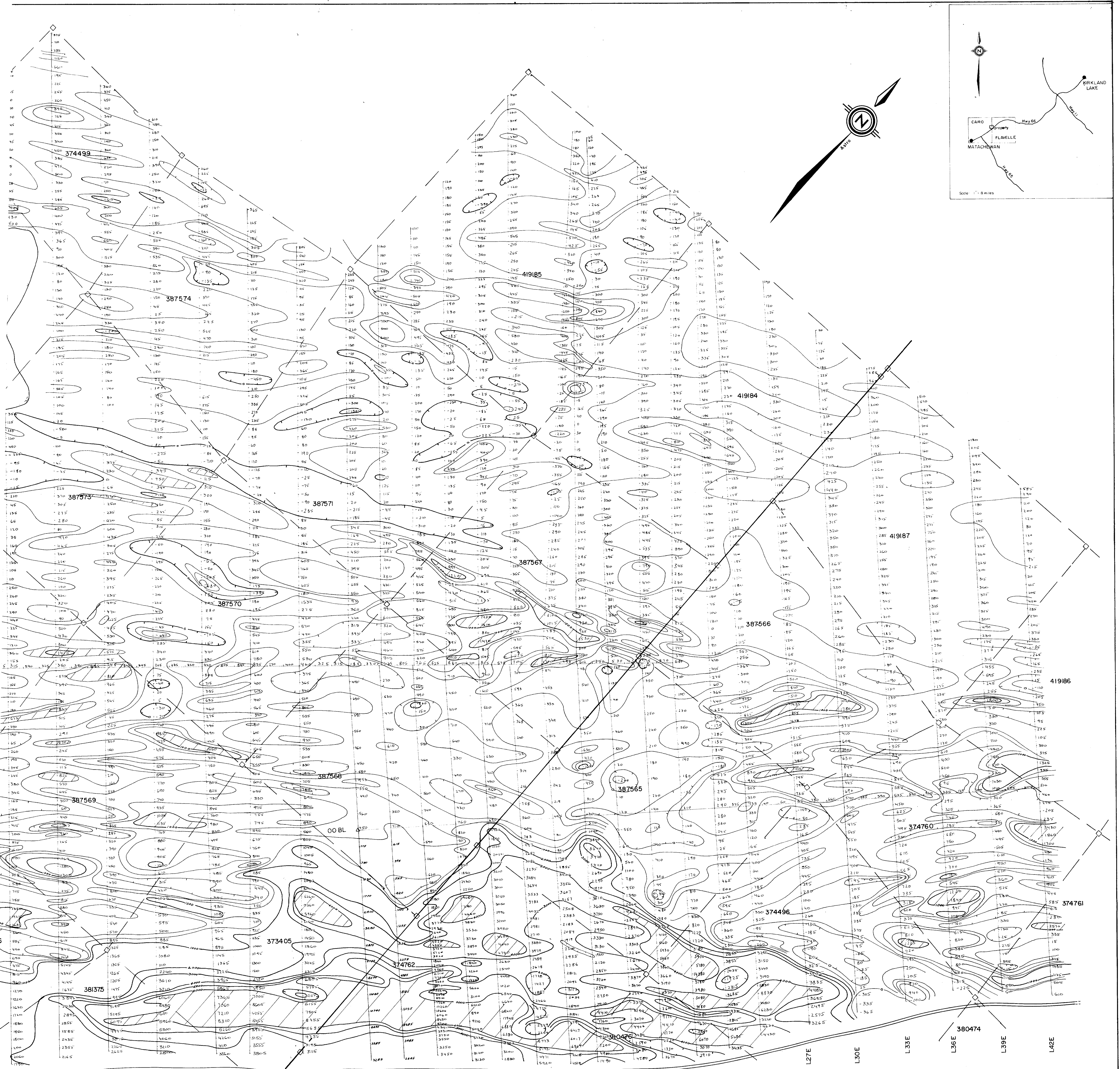
WILLISON Tp. M. 259



INSTRUMENT: McPhar M-700
Vertical Axis Flange Map
Zero level arbitrary

Δ Magnetic Base Station





INSTRUMENT
 McPhar M-700
 Vertical Field Fluxgate Mag.
 Zero level arbitrary

Scale: 1" = 200'			
ECSTALL MINING LTD.			
MAGNETIC SURVEY			
CAIRO 46 - FLAVELLE 41			
WORK BY	DRAWN BY	PROJ. NO.	DATE
D. E. T.	JP	220	Nov 1974

Δ Magnetic Base Station

J. A. Seal 3/1/75