

GUNNEX LI

SUITE 1707, 80 RICHMOND STREET WEST

TELEPHONE 363-.....



52F05SW0155 63.2486 DOGPAW LAKE

010

63.2486

FLINT LAKE CLAIMS - KENORA MINING DIVISION

GEOPHYSICAL SURVEYS, 1969

The Flint Lake claims were staked by A. O. Zeemel in April, 1968, to cover the old Falnora gold deposit. During the course of staking it was discovered that magnetic anomalies occur in the east portion of the claims. Subsequent electromagnetic surveying by Gunnex located two anomalies, one in close proximity to the gold- and pyrite-bearing shear zone at the Falnora shaft, the second within the lake and possibly associated with faulting trending north-west through the lake. Further surveying and diamond drilling is required. Due to very rough ground, the electromagnetic system used was found unsuitable for surveying of a portion of the southern and eastern part of the claim group.

GEOLOGY - Reference: Map 42B ODM 1943

Following staking, a brief reconnaissance of the portions of the property of greatest interest was completed by two prospectors. Nothing in the way of new mineralization was found and panning of mineralized schist from old trenches on claims K42380 and K42390 gave negative results.

Previous work by Noranda in 1945, including 6,500 feet of drilling, outlined a shear zone in tuffaceous rocks striking N.75°E, dipping 85°S and lying along the south side of the lake (claims K42379 and K42388). Within this shear are pyritized and silicified sections carrying free gold and gold-bearing pyrite. One 200-foot section returned drill hole values between 0.11 and 0.37 oz Au over widths up to 11 feet. A second section 450 feet long gave some drill inter-sections up to 0.23 oz Au over 8 feet with one 5-foot section returning 1.40 oz Au.

In view of the apparent relationship between sulphides and gold values, the electromagnetic survey was conducted over this zone and adjacent area.

According to Map 42B, a band of basic rock trending northeast enters the lake from the southwest and possibly extends eastward from the east shoreline.

LINE CUTTING

A base line was established in an east-west direction and lines cut at 400-foot intervals over sufficient claims to test the Falnora shaft zone and the magnetic highs in the east part of the group. Section lines were picketed at 100-foot intervals. A total of 13.3 miles of picket line plus over 2 miles of base line were cut and chained by E. Sobiski, Bud Sobiski and John Harrison, all of Kenora, between February 11th and March 1st, 1969. Deep snow considerably hampered this phase of the project.

MAGNETOMETER SURVEY

W. G. Langley, Gunnex geophysical operator, completed a magnetic survey over all section lines using an ABEM torsion-wire instrument and measuring the

vertical component of the magnetic field. Readings were corrected for diurnal variation and plotted at 1 inch to 200 feet. The sensitivity of the instrument is ± 10 gammas.

Marked magnetic highs are present traversing claims K42390 and K42855 in a N.75°E direction and on both sides of the base line extending eastward from line 20E in an easterly direction. Several intermittent small but well marked highs trend northwest from line 20E and north of the base line.

The northeast and east-trending highs are likely due to the basic rock as shown on map 42B and striking in the same direction. However, since the peak anomalies are in the order of 5000 to 8000 gammas above the surrounding tuffaceous rocks, the source material likely contains a notable amount of magnetite.

The west-northwest strike of the lake shorelines and the apparent termination of both magnetic highs within the lake suggests that a northwest fault may occupy the central axis of the lake itself.

ELECTROMAGNETIC SURVEY

This survey was conducted by R. R. Smith, Gunnex geophysical operator, and John Harrison, assistant. Readings were taken every 100 feet along section lines with a Sharpe SE-300 at 1600 cycles and using the broadside method. Readings were plotted as dip angles at a scale of 1 inch to 200 feet.

Two anomalies of note were recorded. The first lies about 500 feet north of the Falnora shaft and lies sub-parallel to the shaft shear zone. Examination of dip angles indicates a possible south dip for the conductor. The anomaly is quite distinct over a 2,000-foot length. This anomaly may represent a pyritized shear zone and if so could be gold-bearing.

The second anomaly lies 300 to 400 feet north of the south shoreline and within the lake. It too is about 2,000 feet long. A patch of open water on section 32E precluded confirmation of the anomaly where it probably crosses this line. The anomaly could represent a mineralized portion of a fault zone, or parallel structure, striking at an acute angle to the northeast trending magnetic anomaly. It could also represent a steepening of the shoreline with a high angle contact between rock ledge and lake bottom deposits.

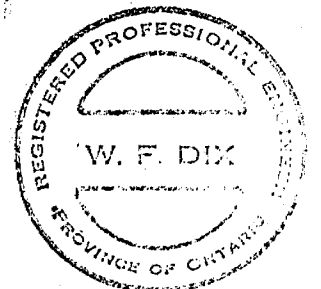
CONCLUSIONS

Both electromagnetic conductors warrant diamond drilling. Further electrical work should be completed over the unfinished portion of the claim group. The Crone system or Ronka M16 equipment should be considered.

Detailed prospecting and geochemical sampling should be carried out on the magnetic peaks and their flanks.

Toronto, Ontario.
April 15, 1969.

W. F. Dix



ASSESSMENT WORK

LINE CUTTING

E. Sobiski	Kenora, Ontario	Feb 10th to March 1st, 1969 incl.
Bud Sobiski	Kenora, Ontario	Feb 10th to March 1st, 1969 incl.
John Harrison	Kenora, Ontario	Feb 10th to March 1st, 1969 incl.

Base line	2.0 miles
Section line	<u>13.3 miles</u>
Total:	15.3 miles chained at 100' intervals.

MAGNETIC SURVEY

W. G. Langley, Gunnex Limited, Toronto March 6th to 15th, 1969 incl.

Stations read (including some 50-foot stations) - 820 readings

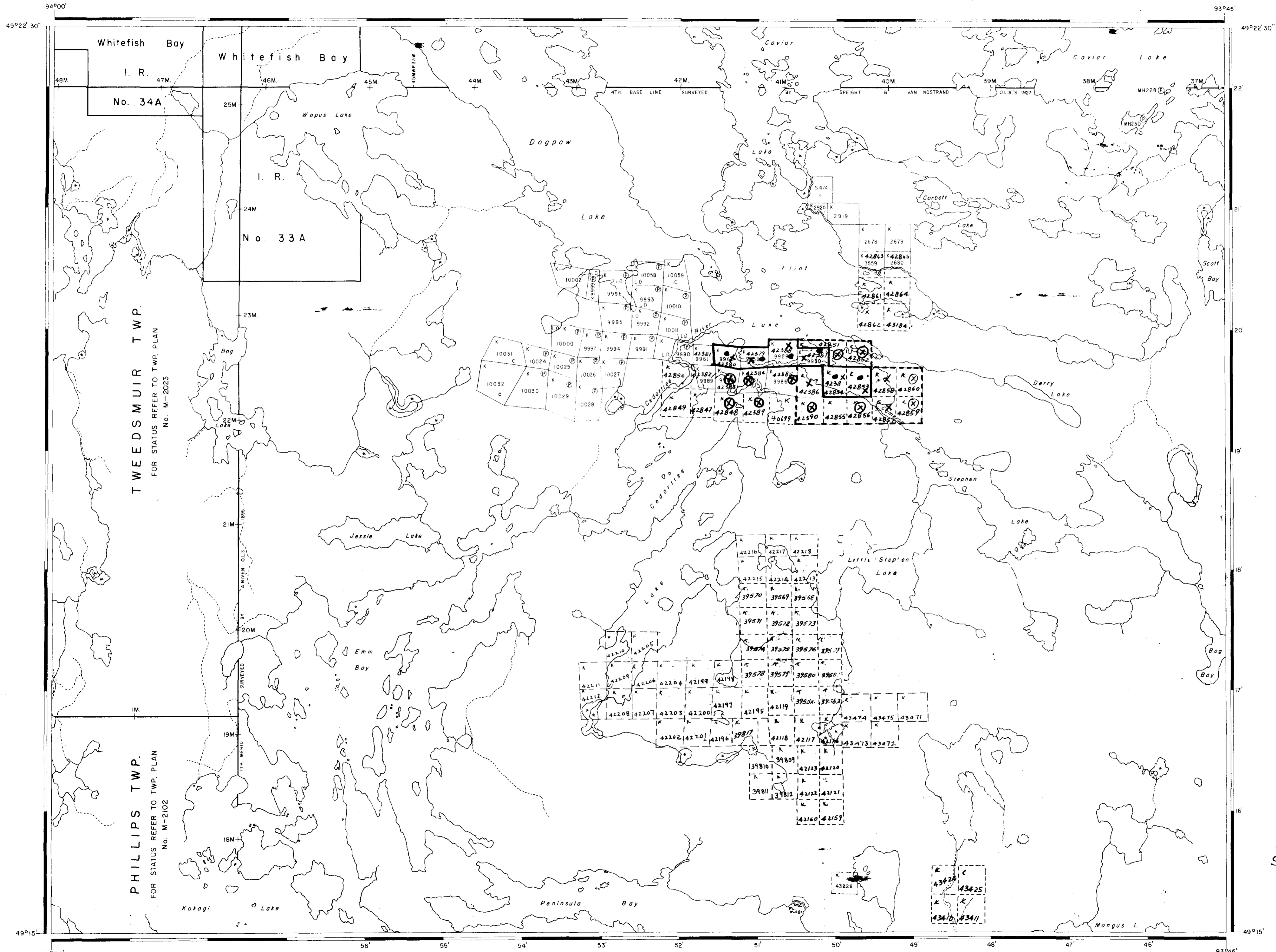
Miles surveyed - 13.3 miles

ELECTROMAGNETIC SURVEY

R. R. Smith, Gunnex Limited, Toronto
John Harrison, Kenora, Ontario March 8th - 15th, 1969 incl.

Miles surveyed - $\frac{8.01 \text{ miles} \times 5,280}{100} = 423 \text{ readings}$

NOTE: For assessment recorded April, 1969, only that portion of lines cut and surveyed within the claims under application was utilized.



AREA OF
CLAIM MAP
DOGPAW LAKE

DISTRICT OF
KENORA

KENORA
 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 around all lakes and rivers.

DATE OF ISSUE
 SEP 4 1969
 ONTARIO DEPT. OF MINES

E-M SURVEY

- - claims recorded.
- X - claims covered.
- Ⓧ - claims mapped but not traversed.

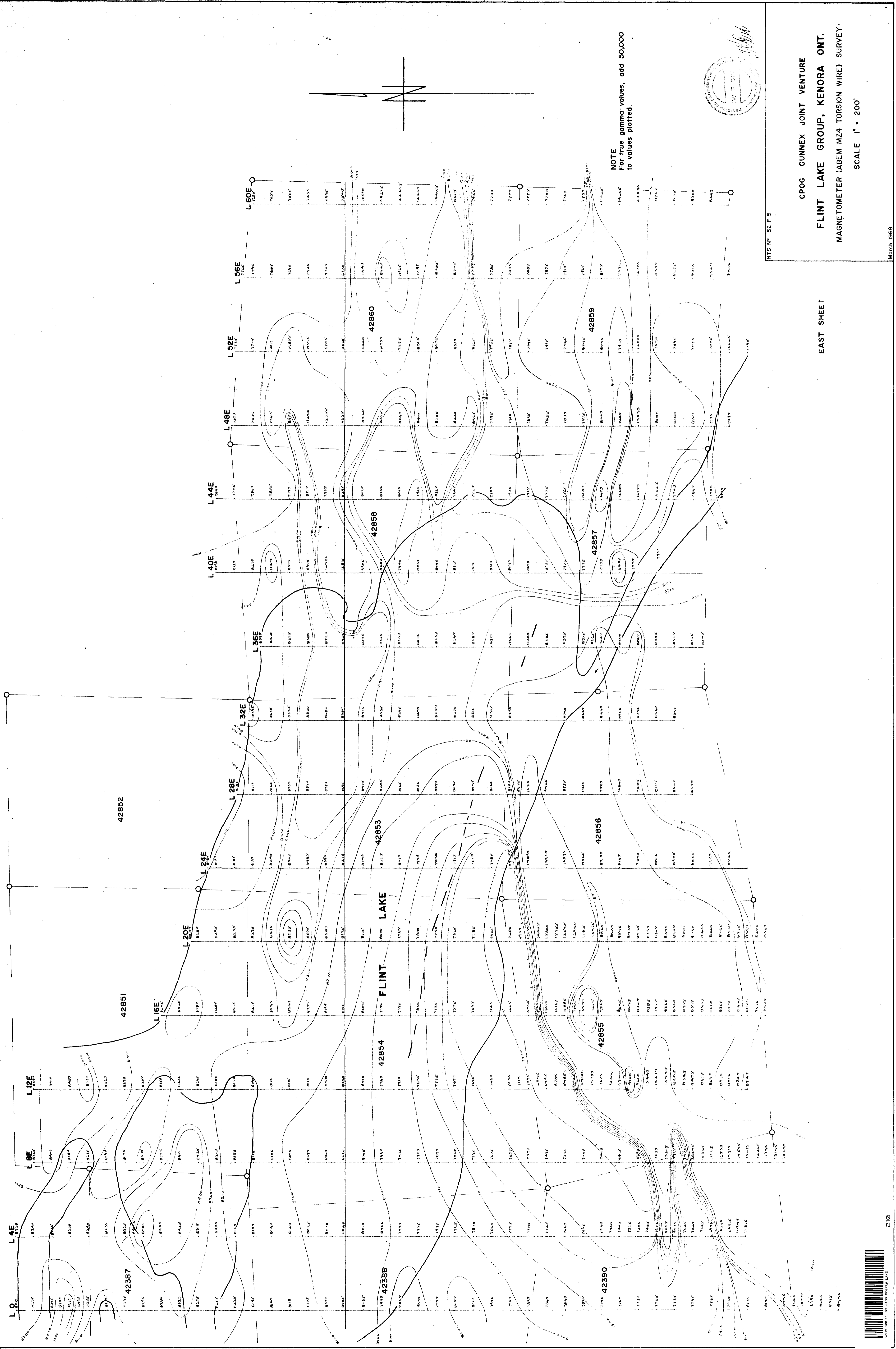
PLAN NO. **M.2585**

DEPARTMENT OF MINES
 - ONTARIO -

PHILLIPS TWP.
 FOR STATUS REFER TO TWP. PLAN
 No. M-2102

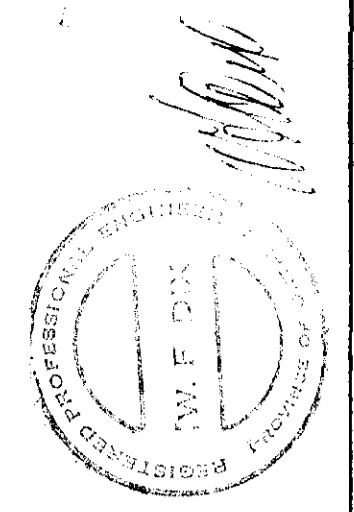
TWEEDSMUIR TWP.
 FOR STATUS REFER TO TWP. PLAN
 No. M-2023



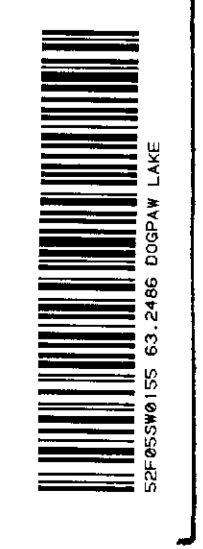


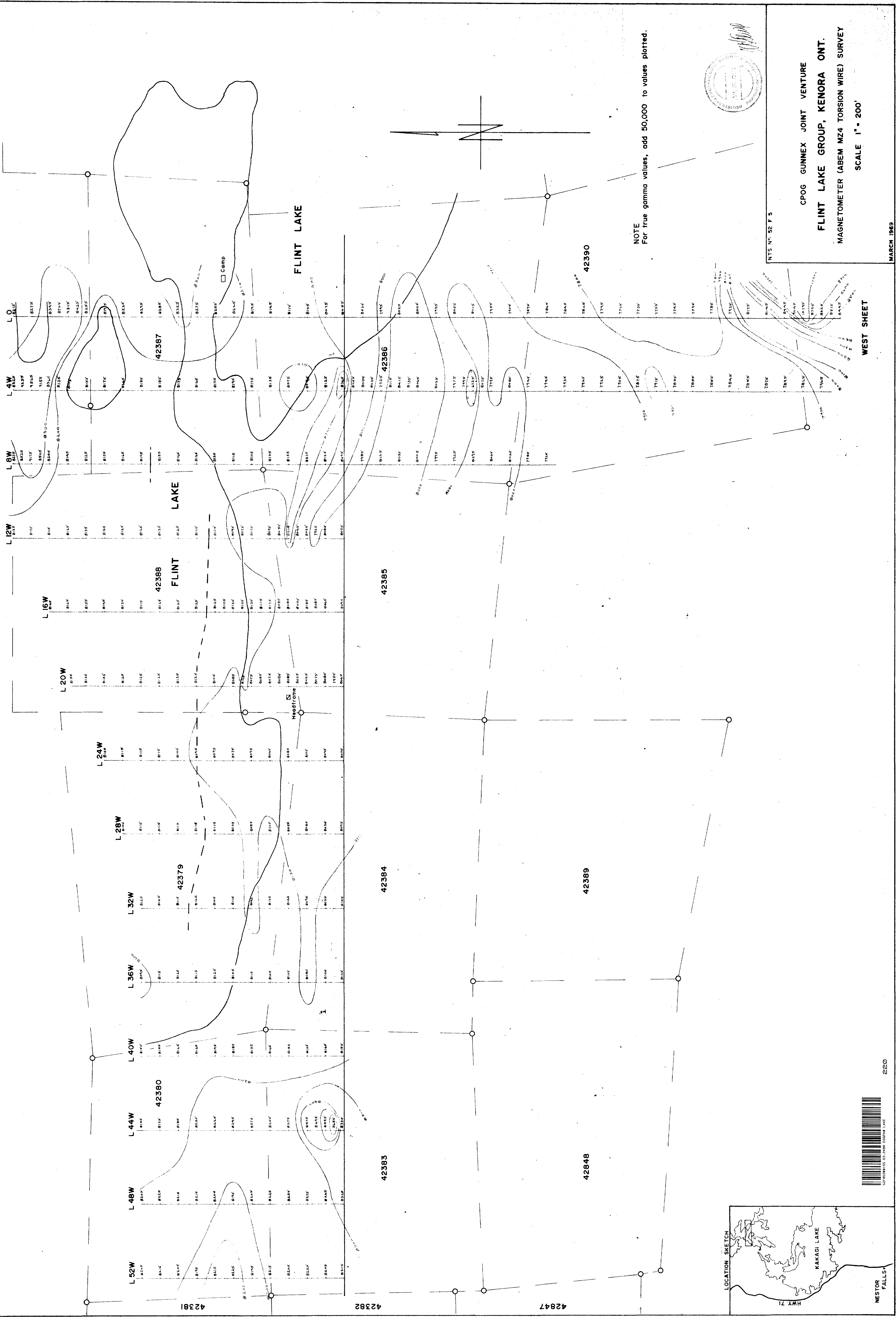
NTS No. 52 F 5

CPOG GUNNEX JOINT VENTURE
 FLINT LAKE GROUP, KENORA ONT.
 MAGNETOMETER (ABEM M24 TORSION WIRE) SURVEY
 SCALE 1" = 200'

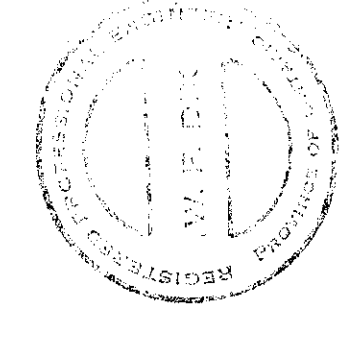


EAST SHEET





NOTE
For true gamma values, add 50,000 to values plotted.



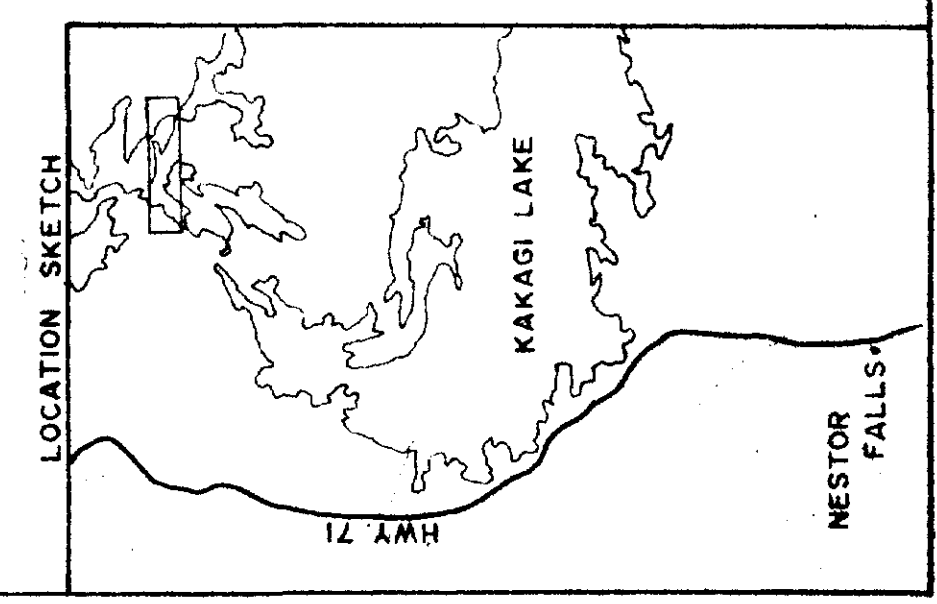
NTS No. 52 F 3

CPOG GUNNEX JOINT VENTURE
FLINT LAKE GROUP, KENORA ONT.
MAGNETOMETER (ABEM M24 TORSION WIRE) SURVEY

SCALE 1" = 200'

MARCH 1969

WEST SHEET



250



NTS N° 52 F 5

CPOG GUNNEX JOINT VENTURE
FLINT LAKE GROUP, KENORA ONT.
 ELECTRO-MAGNETIC (SE 300) SURVEY
 SCALE 1" = 200'

March 1969

EAST SHEET

42851 42852 42853 42854 42855 42856 42857 42860 42865 42866 42867 42890

L.0 L.4E L.8E L.12E L.16E L.20E L.24E L.28E L.32E L.36E L.40E L.44E L.48E L.52E L.56E L.60E

FLINT LAKE

Open Water

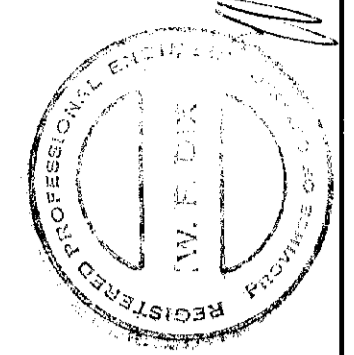
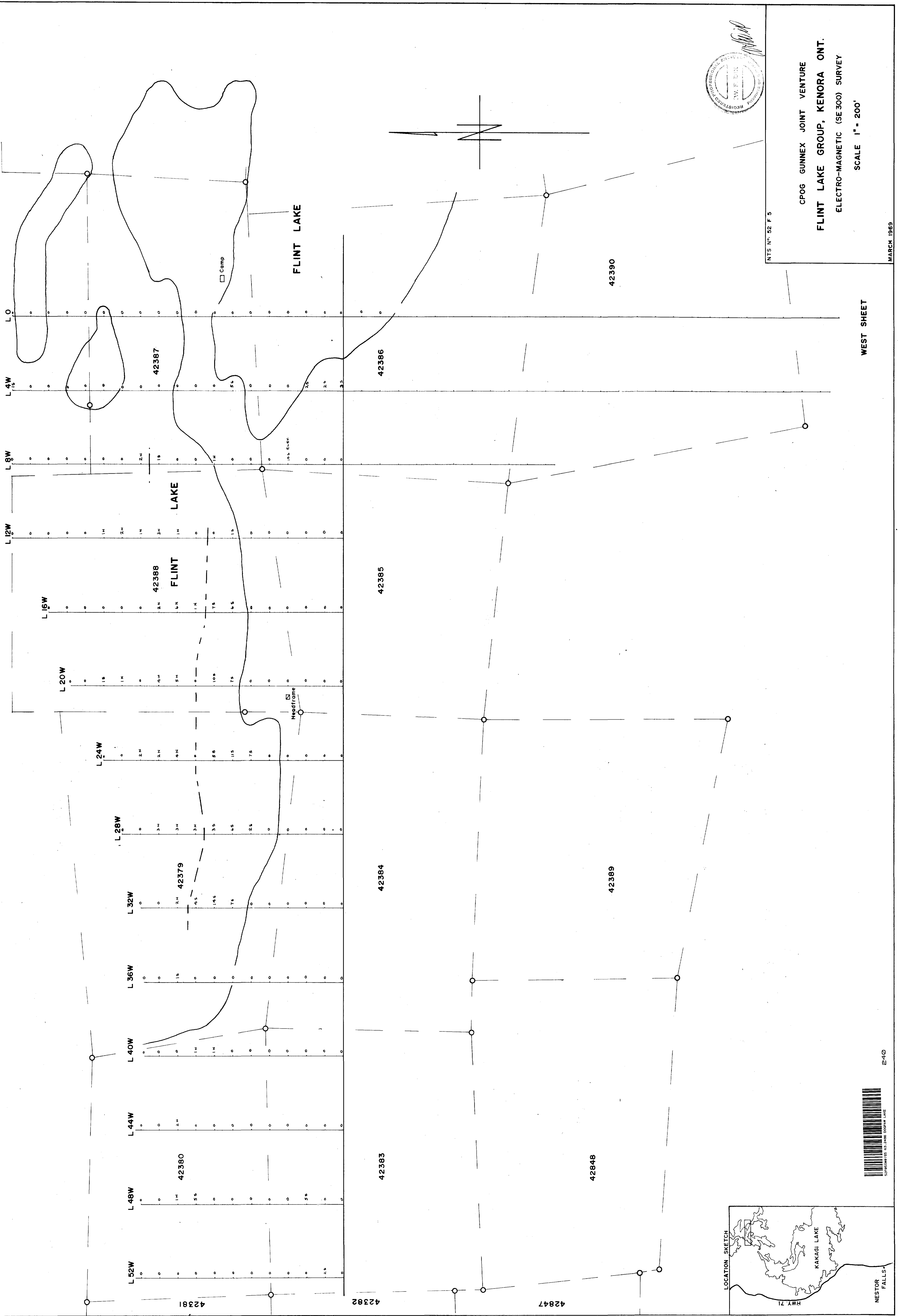
Indicates Conductor

Detail work plotted on left side of lines.

REGISTRATION OF PROFESSIONAL ENGINEERS
 M. F. D. W. 1969

290

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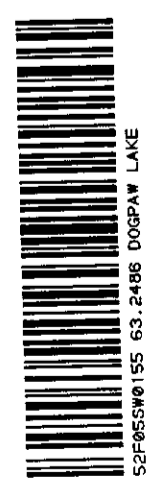
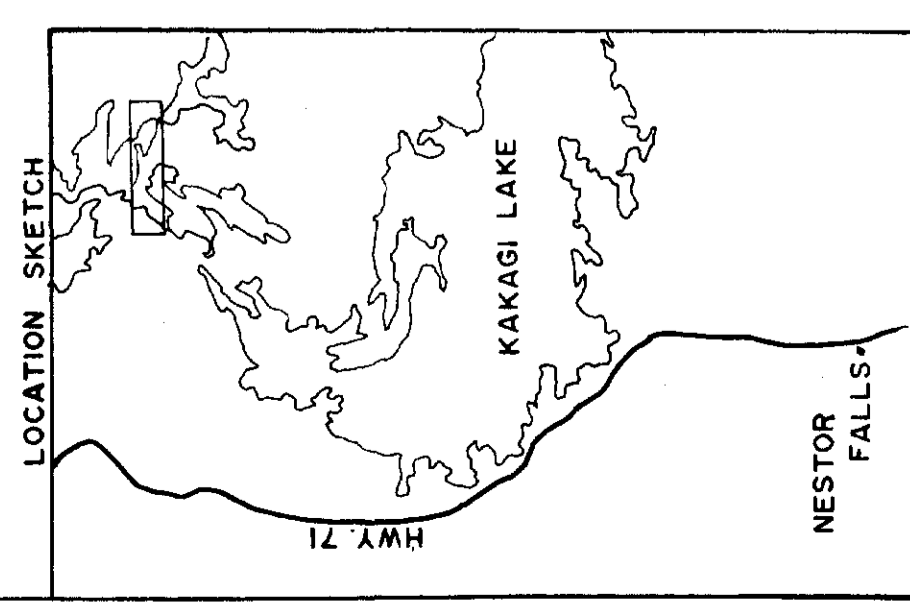
NTS No. 52 F 5

CPOG GUNNEX JOINT VENTURE
 FLINT LAKE GROUP, KENORA ONT.
 ELECTRO-MAGNETIC (SE 300) SURVEY

SCALE 1" = 200'

MARCH 1969

WEST SHEET



210

NESTOR FALLS
 SURVEYING 1952-1988
 DORRAN LAKE