



52E09SW0032 63.2166 MANROSS

010

REPORT

ON

COMBINED MAGNETOMETER-ELECTROMAGNETIC SURVEY

DONE FOR

K. G. ELLARD (1966) GRUBSTAKE

MANROSS TOWNSHIP

(LAKE OF THE WOODS)

KENORA MINING DIVISION, ONTARIO

JUNE 15th, 1967.

JOHN J. D. FILO, B.A.Sc., P.Eng.

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MAPS INCLUDED IN BACK ENVELOPE

MAGNETOMETER SURVEY	Scale: 1" = 200 feet
SE-200 E.M. SURVEY	Scale: 1" = 200 feet

CONCLUSIONS

Several 1450 cps conductors with associated magnetic anomalies were located in the combined magnetometer-electromagnetic survey which may be of economic importance. Two (No. 1 and 2) of these have been traced for a minimum strike length of 800 feet, and one remains open to the west. A third conductor (No. 3) with little or no magnetic association has been traced for 1200 feet and similarly remains open to the west.

The geological-geophysical characteristics of the portion of the property covered by the combined survey indicate a favourable environment for the occurrence of a base metal deposit. Because of this, further work to include prospecting, trenching, an extension of the survey to the west and diamond drilling should be implemented.

RECOMMENDATIONS

The following work is recommended in descending order of priority:

CONDUCTOR NO. 1

Geophysical coverage to be extended to the west, if practical, and a diamond drill hole (D.D.#1) on L-12W to be collared at 155 and drilled North at an angle of -45° for a length of 200 feet.

CONDUCTOR NO. 2

To be drilled (D.D. #2) on L Q+00, collared at 0+50W and drilled South at an angle of -45° for a length of approximately 200 feet.

CONDUCTOR NO. 4

To be drilled on a low priority basis on L4W (D.D. #3), collared at 35, if possible and drilled South at -45° for a length of 200 feet.

Low priority prospecting with follow-up stripping and trenching is recommended for Conductors No. 3 and 5 and the unnumbered isolated single cross-over conductors remaining on the property.

INTRODUCTION

At the request of Mr. K. G. Ellard of the "K. G. Ellard (1966) Grubstake Agreement", a combined magnetic-electromagnetic survey was carried out on a portion of the K. G. Ellard (1966) Grubstake property in Manross Township (Lake of the Woods), Kenora Mining Division, Ontario.

The purpose of the survey was to check the geophysical characteristics associated with a copper showing located at 1+50W/0+80S across which two chip samples returned 1.25% Cu across 12 feet and 1.49% Cu across 8 feet on either side of a pit blasted across a copper bearing chert zone. Additional coverage included that portion of the property from approximately 1/4 mile North of this showing to 1800 feet South, 1000 feet West and 1400 feet East.

The survey was accomplished from a camp set up on the property and was completed during the interval of May 21 to May 29, 1967 by Mr. A. C. Langston of Fife Geophysics Limited.

The instruments utilized in the survey were an MF-1 vertical component, fluxgate magnetometer and an SE-200 electromagnetic unit with an operating frequency of 1450 cycles per second. Both instruments are constructed by Sharpe Instruments

of Canada Limited whose main manufacturing plant is located in Downsview, Ontario.

PROPERTY, LOCATION AND ACCESS

The area surveyed geophysically consists of approximately 4 contiguous, unpatented mining claims, comprising the east central portion of a 36 claim group, as shown on the accompanying maps.

The entire block of ground consists of the following claims:

K-39869 to K-39877 inclusive
and K-39880 to K-39906 inclusive

Access is by float or ski-equipped aircraft based at Kenora, landing in Witch Bay, some 15 air-miles South-East of Kenora, Ontario. Alternately, the property is accessible by road to Witch Bay and by boat to the South shore of Witch Bay. The property is criss-crossed by many bush roads, suitable for bringing in a diamond drill and the necessary supplies.

DISCUSSION OF RESULTS

Several interesting electromagnetic conductors and magnetic anomalies were located in the combined survey. The general trend of both the conductors and the magnetic anomalies is roughly parallel to the baseline which strikes N70°E.

In coincidence with the original copper showing and a magnetic anomaly immediately south of the baseline and designated Conductor No. 2, an 800 foot conductor has been located. Its strike extent has been closed off to the east and west.

This conductor appears to have a vertical dip or a very steep north dip. Its amplitude is moderate in intensity and the copper values encountered on it, make it economically important. It should be drilled.

Approximately 1/4 mile south of the baseline and designated Conductor No. 1 is a moderate to strong conductor associated with magnetics that are typical of a sulphide (Pyrrhotite-containing) conductor. It has been traced for 800 feet and is still open to the west. It appears to dip vertically. This conductor is a first priority drill target.

Conductor No. 3 is the longest (1200 feet) conductor located on the property. It lies approximately 500 feet north of the baseline. Although moderate in intensity, it does not appear to have a definite magnetic association. Its electromagnetic characteristics suggest that it may be a shear zone of very limited width. Low priority prospecting is warranted on this conductor.

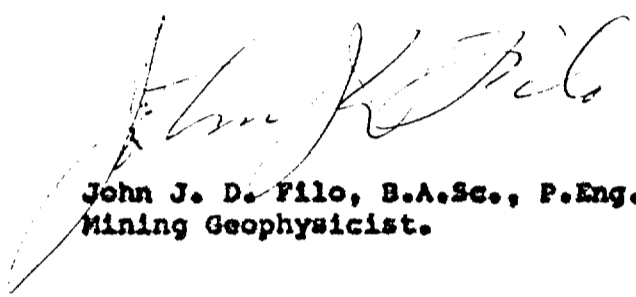
Conductor No. 4 is weak to moderate, paralleling Conductor No. 2 and lying about 400 feet south. It is associated with magnetics, in part at least and would be a low priority drill target.

The last remaining numbered conductor (Conductor No. 5) lies on the probable strike extension of Conductor No. 3. On the two lines where it is delimited by cross-overs, L8E and L12E, it is moderate to weak in intensity with no appreciable magnetic association. This conductor is open to the east but does not appear to warrant any further geophysical coverage.

In addition, a total of five, unnumbered, isolated cross-overs were located during the course of the survey.

Their relationship to magnetic features is variable and indefinite and as such, they warrant further prospecting with follow-up stripping and trenching only on a very low priority basis.

Respectfully submitted,
FILO GEOPHYSICS LIMITED,



John J. D. Filo, B.A.Sc., P.Eng.
Mining Geophysicist.

June 15th, 1967.



Bigstone Bay (M.1815)

AREA OF
WHITEFISH BAY
&
MANROSS TWP
(LAKE OF THE WOODS)
DISTRICT OF
KENORA
KENORA
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PAIENATED LAND
- CHOWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSK-LG
- MINES
- CANCELLED
- TRAILS

NOTES

- 400' Surface Rights Reservation Around All Lakes & Rivers
- Reserve Flooding Rights Up To 1064' Above Mean Sea Level On All Lands Bordering On Lake Of The Woods File 4922 Vol I
- Pipestone Provincial Park Shown Thus
- Islands In The Lake Of The Woods Thereto Do NOT Form Part Of Manross Twp.
- Boundary Of Manross Twp Shown Thus

DATE OF ISSUE

AUG 16 1967

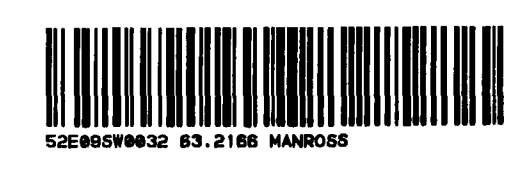
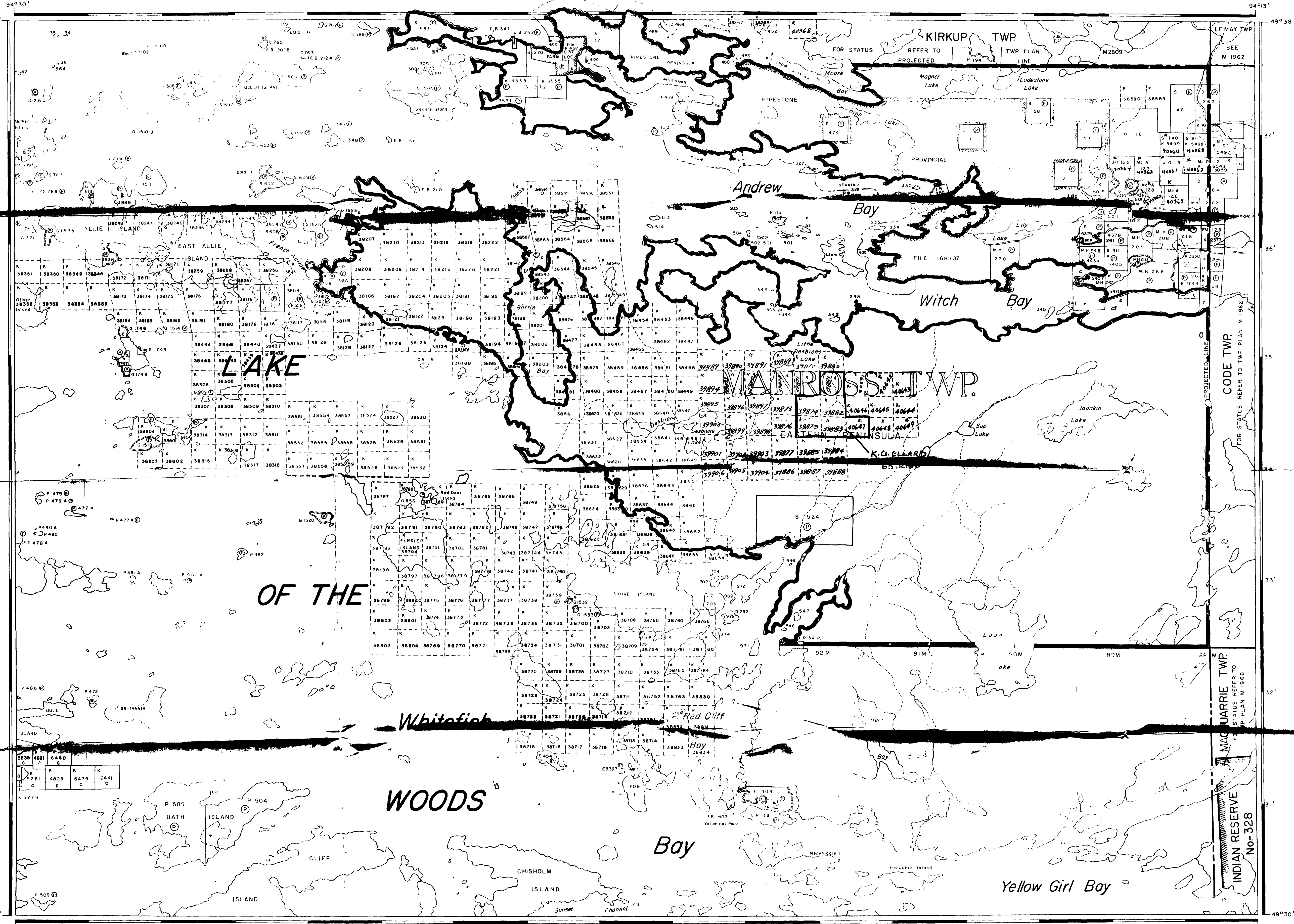
ONTARIO DEPT. OF MINES

ONT. DEPT. OF MINES
MINING LANDS BR.
THIS MAP FOR CHECKING
PURPOSES ONLY - MUST
NOT BE SOLD.

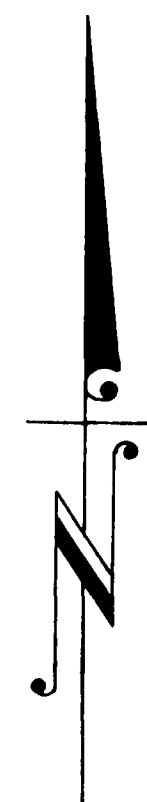
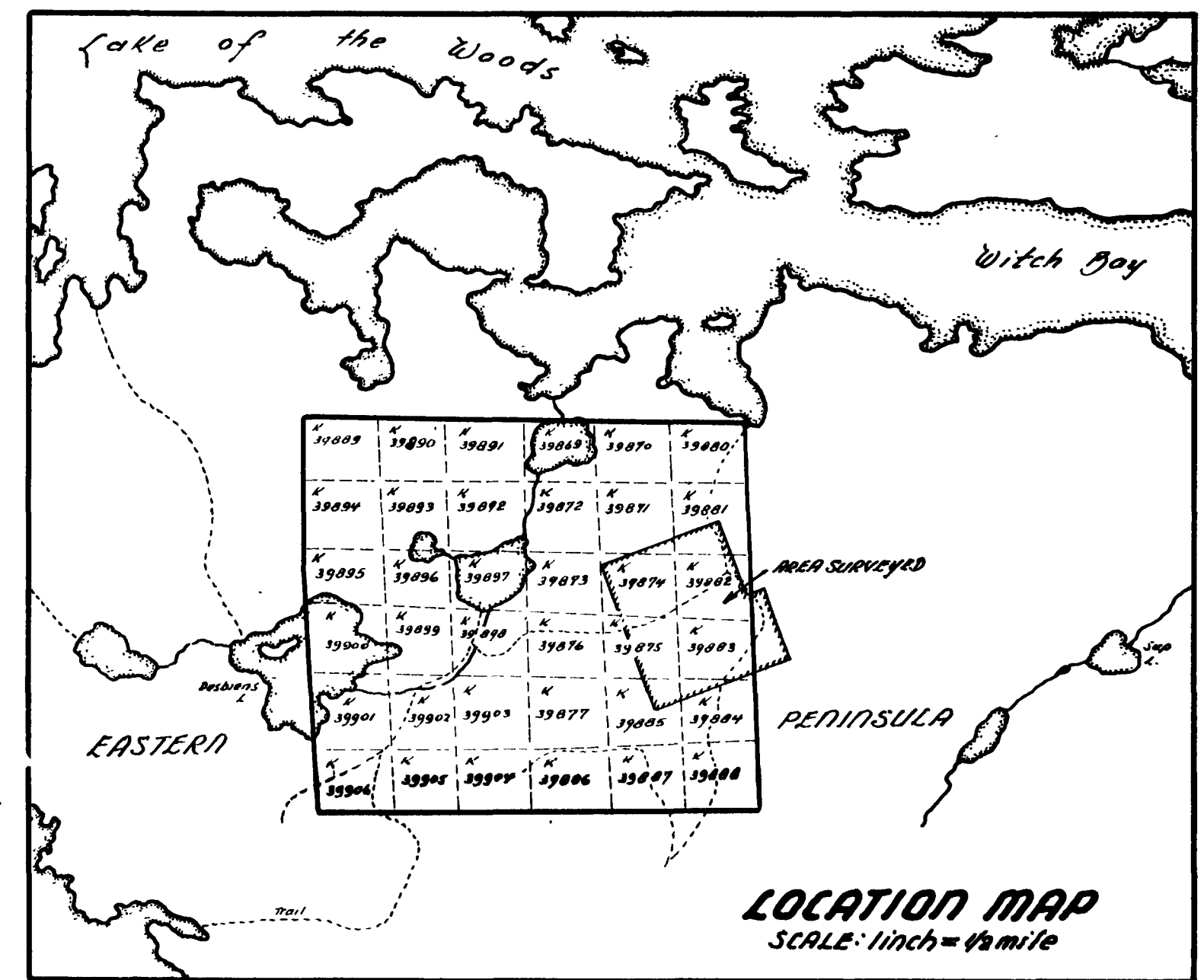
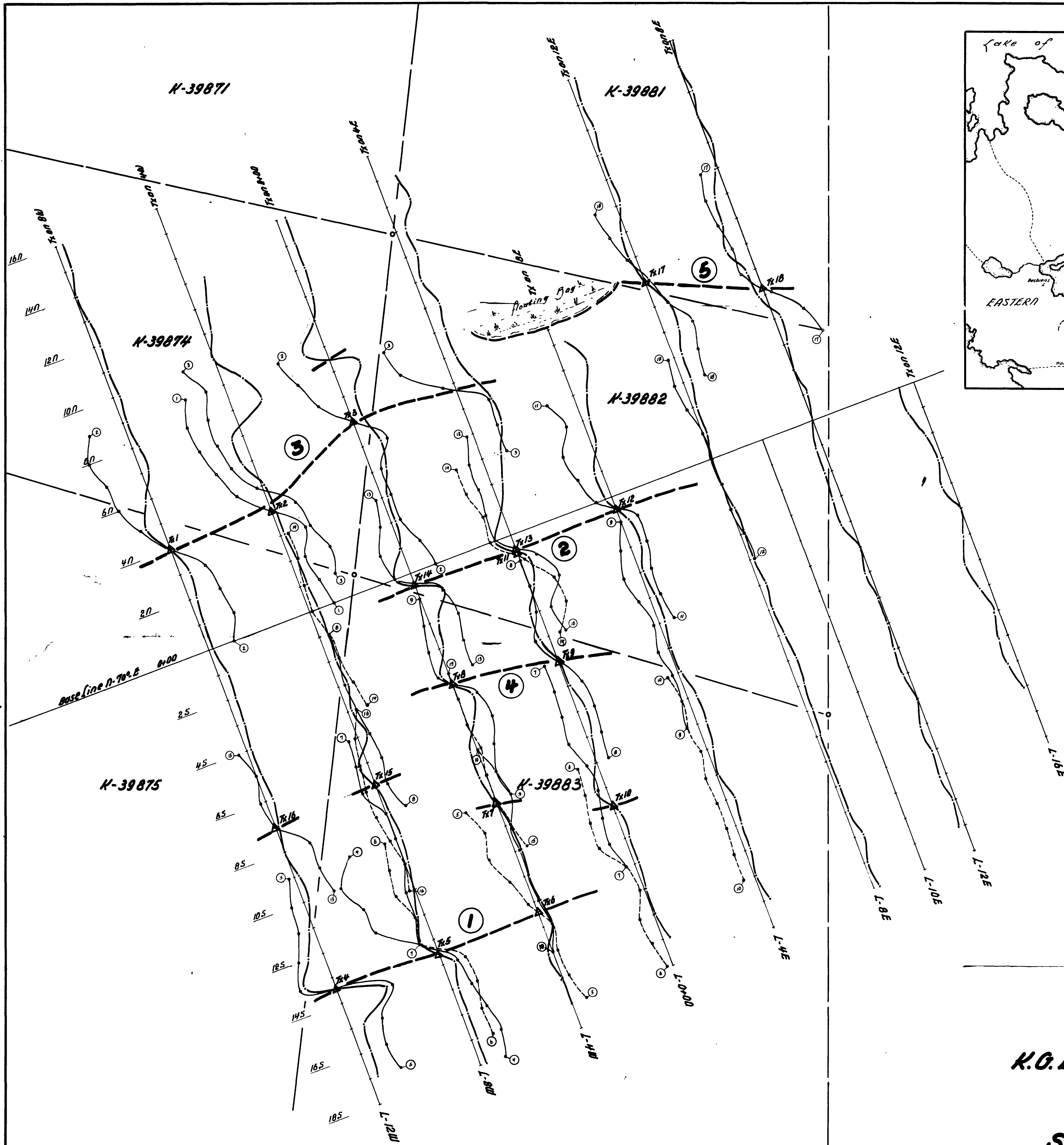
PLAN NO.-M.2338

DEPARTMENT OF MINES
- ONTARIO -

Wiley Bay (M.2337)



Aulneau Peninsula (M.2640)



- LEGEND**
- ① EM Conductor & Conductor No.
 - Broadside Method Profile
 - Fan Method Profiles
 - Profile from Station 0+1
 - △ Tx1 Transmitter Station

K.G. ELLARD (1966) GRUBSTAKE

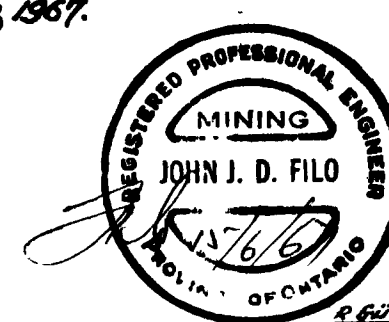
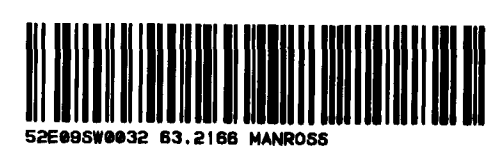
MADROSS TOWNSHIP
(LAKE OF THE WOODS)
KENORA MINING DIVISION

SE-200 EM SURVEY

SCALE: 1" = 200'

DATE: June, 1967.

FILO GEOPHYSICS (LIMITED)



K-39871

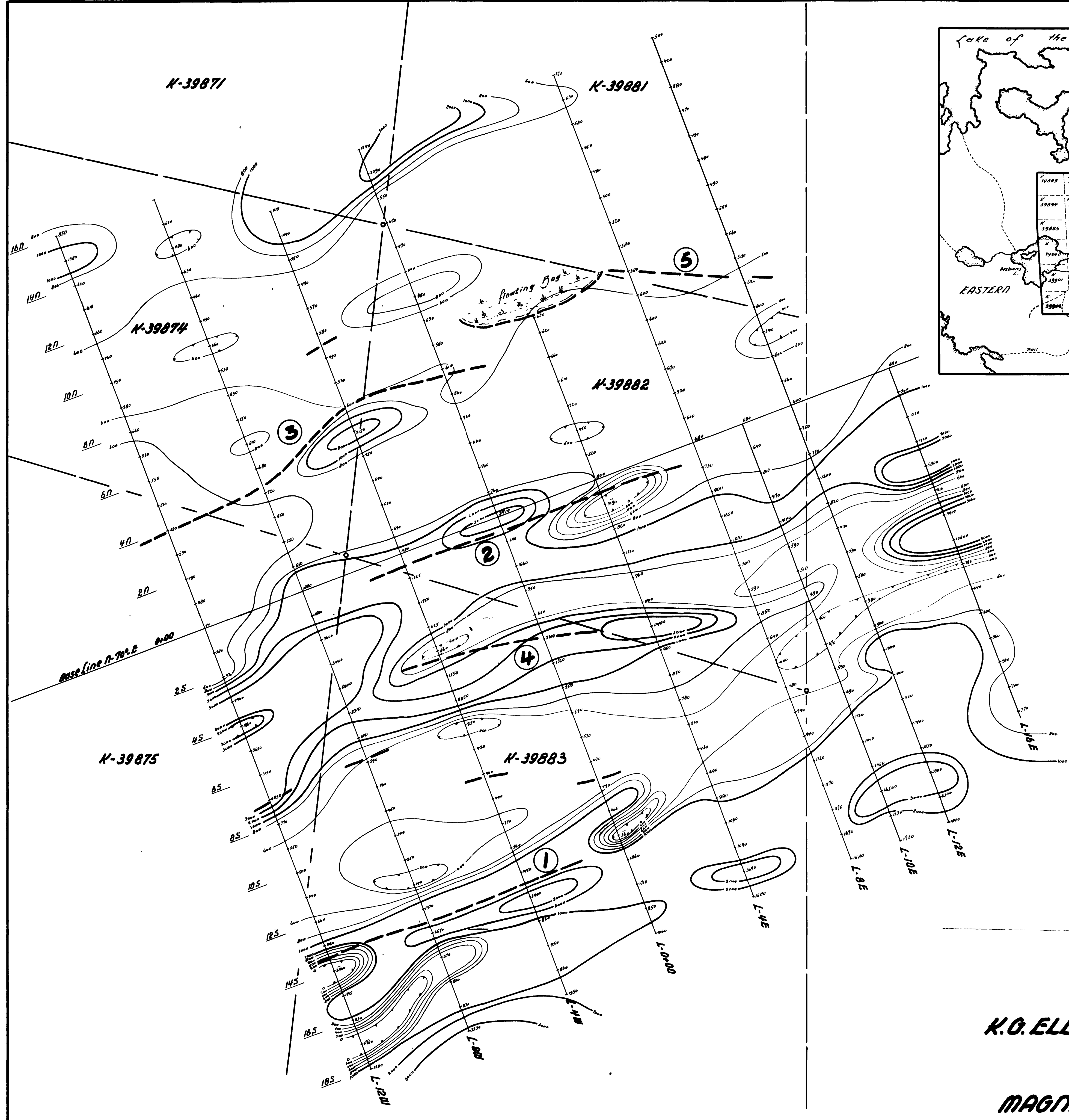
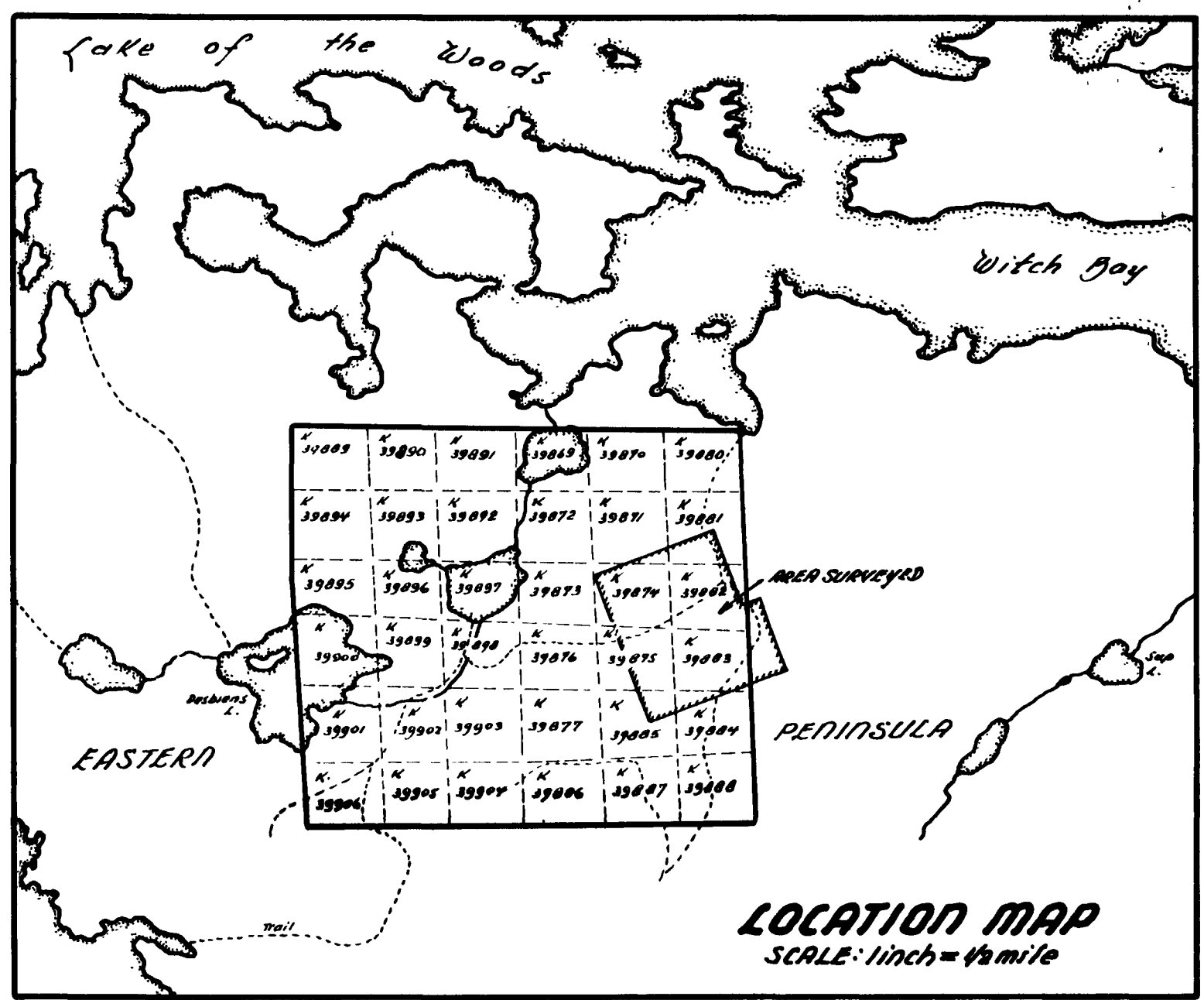
K-39881

K-39874

K-39882

K-39875

K-39883



LEGEND

Contour Interval
 From 0-1000 Gammas - 200 Gammas
 from 1000-3000 --- 1000 ---

200 200 Gamma Contour
 1000 1000 Gamma Contour
 Low Mag.
 EM Conductor (conductor 12)

K.O. ELLARD (1966) GRUBSTAKE

MANROSS TOWNSHIP
(LAKE OF THE WOODS)
KENORA MINING DIVISION

MAGNETOMETER SURVEY

SCALE: 1" = 200'

DATE: June, 1967

FILO GEOPHYSICS (LIMITED)

