



52J01SW0096 52J02SW0052 FOURBAY LAKE

010

52 J/02 SW (35)

REPORT FOR
MATTAGAMI LAKE MINES LIMITED

Covering MAGNETIC and ELECTROMAGNETIC
surveys over their

No. 30

CLAIM GROUP,

Kings Bay, Sturgeon Lake Area,
Patricia Mining Division, Ontario.

March, 1970.

Report for MATTAGAMI LAKE MINES LIMITED covering
MAGNETIC and ELECTROMAGNETIC surveys over their No. 30
claim GROUP, Kings Bay, Sturgeon Lake area, Patricia Mining
Division, Ontario.

LOCATION AND ACCESS:

This group of 28 contiguous claims numbered 212618 to 212634; 212656 to 212659 and 219046 to 219052 is located at the north end of Sturgeon Lake, adjacent to and immediately north of Kings Bay. Access is via Sturgeon Lake.

PREVIOUS WORK:

Eleven drill holes were completed on this property for C. J. Ryan during the period Dec. 4, 1946 to Jan. 16, 1947. Only gold assays are recorded thus it would appear that this exploration program was primarily concerned with the exploration of this mineral. Some values were intersected in the order of .04 to .08 ounces per ton usually associated with bluish quartz veins. Rock types consisted of andesite, dacite rhyolite and tuffs.

The GSC airborne magnetic map No. 52-J/2 flown at 1000' shows a magnetic high that is very weak (20 gammas in magnitude) in the claim group area.

EQUIPMENT USED:

Magnetic - A McPhar fluxgate magnetometer M-700 was used measuring the vertical component of the magnetic field directly in gammas. Accuracy of the instrument is ± 10 gammas. Normal procedures using base stations and applying drift corrections were carried out.

Electromagnetic - A Crone Shootback JEM unit was used with a coil separation of 200 and 300' and a basic operating frequency of 1800 Hz, with readings also being taken at 480 Hz in anomalous areas. The "resultant dip angle" in degrees is recorded using the mid point between the two operators.

LINECUTTING:

Two east-west base lines were established and a grid cut with a 400' line interval over a portion of the claim group. Linecutting was performed by Mattagami Lake Mines own crews total mileage being 1.8 miles of base line and 10.2 miles of line.

GEOPHYSICAL OPERATORS:

The field work was carried out by Mattagami Lake Mines crews under the party chief Robert Major, Box 190, Ignace, Ontario.

INTERPRETATION:

Numerous east-west striking conductors were detected several of which flank the north side of sharp magnetic anomalies of several thousand gammas. In other case magnetic correlation is weak to nil. All of the conductors appear to have a dip varying between vertical to 70° south, are narrow in width with depth of overburden varying rapidly from shallow to 75'.

Starting from south to north the following remarks can be made about the conductors:

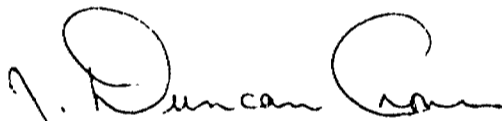
- 30-1 11 + 00 S, 12 E to 20 E. This conductor was intersected by C. J. Ryan DDH No. 10 and was found to be caused by pyrite-pyrrhotite mineralization with minor chalcopyrite.
- 30-2 6 + 50 S, 32 E to 40 E. This is probably a continuation of conductor 30-1.
- 30-3 This conductor is broken into four sections but runs from 4 + 00 S line 12 W to 1 + 50 N line 36 E. This conductor was not tested by previous drilling but appears very similar to the previous two conductors. A showing at the base line and 26 + 00 E indicates similar mineralization as that obtained in drill hole No. 10.
- 30-4 2 + 00 N, line 4 E to 20 E. This conductor would be intersected by Ryan DDH No. 11 with the conductor being explained by disseminated to stringer type pyrrhotite mineralization.
- 30-5 13 + 00 N, line 16 E to 20 E. An outcrop of rhyolite occurs 50' north of this conductor. Overburden could be 50' to 75' directly over the conductor, dip is 70° towards the south.

- 30-6 Approximately 14 + 50 north, line 8 E. Rhyolite outcrops occur 100' to the north and 100' to the south of this conductor. It is very similar to No. 30-5 with 50' to 75' of overburden a possibility.
- 30-7 14 + 00 N, line B W to 20 + 00 N line 12 E. This conductor appears to occur on a dacite-rhyolite contact that is exposed on line 4 E, 17 + 00 N. Rusty shearing over a width of 5' is exposed with rusty samples being taken.
- 30-8 28 + 00 N, lines 16 E to 20 E. This is a weak conductor occurring at a diorite-andesite contact. The weak indication occurring at 0 + 00 and BL 2 is probably an extension of this anomaly.

CONCLUSIONS:

The numerous anomalies appear to be caused primarily by fracture filling type mineralization of pyrite and pyrrhotite occurring along the contacts of different rock types. Soil sampling is recommended to see if base metal values are associated with any of the conductors.

Respectfully submitted,



J. DUNCAN CRONE B. A., P. Eng.
geophysicist.

Crone J.E.M. Dual Frequency unit

Each coil is a combined transmitter - receiver

Frequencies - High 1800 C.P.S.

Low 480 C.P.S.

Input to transmitter: - 0.6 x 12 Watts

Receiver sensitivity - 1800 C.P.S. approx. 0.10 microvolt

480 C.P.S. approx. 0.10 microvolt

Methods of operation. J.E.M. (shoot back)

(Ref. Interpretation Theory in Applied Geophysics Grant &

West - McGraw Hill - Page 448)



52J01SW0096 52J02SW0052 FOURBAY LAKE

020

52 J/02 SW (35)

REPORT FOR
MATTAGAMI LAKE MINES LIMITED

Covering a GEOLOGICAL SURVEY
over their

NO. 30

CLAIM GROUP

Kings Bay, Sturgeon Lake Area,
Patricia Mining Division, Ontario.

May, 1970.



020C

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POCKET: GEOLOGICAL AND GEOCHEMICAL
PLAN ANOMALY NO. 30

LOCATION AND ACCESS:

Sturgeon Lake is located in the districts of Kenora and Thunder Bay in northwestern Ontario. Road access is via Highway No. 599 from Ignace, Ont. This latter highway meets several of the bays extending from the north-west shoreline of Sturgeon Lake. The main transcontinental C. N. R. line passes immediately north of the lake at Savant and a C. N. R. spur line from Thunder Bay to Sioux Lookout passes some eight miles to the south. Ignace on the Trans Canada Hwy. No. 17 is located 45 miles to the south on the main C. P. R. transcontinental line. No Hydro or telephone lines service the area. At the present time an Ontario government access road is under construction from Sturgeon Lake to Sioux Lookout a distance of approximately 50 miles west.

The Mattagami Group No. 30 is located approximately at the intersections of longitude 90° 45' and latitude 50° 00' in the district of Thunder Bays. The property is situated along the north shoreline of Kings Bay and is accessible only by boat or aircraft. Highway No. 599 is six miles to the north-west.

PROPERTY

The 28 claim group is wholly owned by Mattagami Lake Mines Ltd. with head offices at Matagami, Quebec. The claims were staked for Mattagami's account in May, 1969 and are numbered;

212616 to 212634 inclusive,
212656 to 212659 " .
and 219046 to 219052 " .

HISTORY :

The property received its first examination during the early 1900 's when gold was the chief mineral sought after by the prospectors of that era. Modern day prospecting began in 1946 when the claims were covered with resistivity surveys by H. Lundberg and subsequently diamond drilled in 1946 by C. J. Ryan and Associates. Only sparse pyrite mineralization associated with gold-quartz veins was encountered.

In February, 1969 Mattagami Lake Mines Ltd. conducted an airborne electromagnetic survey over the claim group which was restaked by the latter company in May, 1969. During August 1969 Mattagami Lake Mines carried out detailed geophysical and geological surveys over the property along an established grid system at 400 foot intervals.

GEOLOGY:

The Sturgeon Lake area is underlain by a Keewatin greenstone belt trending in an east-west direction to Sturgeon Narrows and thence in a north-south direction to Savant. The Belt varies from 16 miles to 2 miles in width and is surrounded to the north and south by granitic intrusions. A narrow belt of Timiskaming-type sediments occupies the central part of the volcanic belt in a synclinal fashion.

Intruding the above rocks are various younger types of rocks such as feldspar porphyry, diorite, diabase, syenite, basic and ultrabasic varieties.

Claim Group 30 owned by Mattagami Lake Mines is underlain mainly by acid to intermediate type volcanic flows striking in an east-west direction and intruded by diorite sills and dike. While outcrops are generally sparse adequate attitudes were observed to ascertain that complex folding is present about east-west trending axial planes.

Geophysical results indicated several anomalies on the surface which were investigated by detailed mapping and trenching. Most of the anomalies were attributed to east-west trending shear zones in the Keewatin volcanic flows accompanied with narrow bands of massive pyrite and pyrrhotite mineralization. No economic minerals other than minor chalcopyrite were noticed.

TABLE OF FORMATIONS:

PRECAMBRIAN

PROTEROZOIC

Keweenawan
Diabase and Diorite Dikes

ARCHAEN

INTRUSIVES

- { Syenite
Granite
Gabbro, Peridotite

SEDIMENTS - Tamiskaming-Type
conglomerate, greywacke, siltstone

VOLCANICS - Andesite
Dacite
Rhyolite

CONCLUSIONS AND RECOMMENDATIONS:

After detailed geophysical and geological surveys had been conducted over Group 30 in the Sturgeon Lake area by Mattagami Lake Mines it was concluded that no new evidence of economic mineralization within the property was uncovered. No further work is recommended at this time although the claims should be kept in good standing and work reactivated if results from nearby properties should prove important.

Respectfully submitted



May 31, 1970.

J. D. Harvey, P. Eng.

REFERENCES:

Ont. Dept. Mines - Annual Report 1901, Part II,
Sturgeon Lake Area, pp. 102-103,
W. E. H. Carter.

Ont. Dept. Mines - 20th Annual Report 1911, Vol. XX, Part I,
Sturgeon Lake Gold Field, pp. 133 - 157
E. S. Moore.

Ont. Dept. Mines - Vol. XXX, Part II, 1920
Ontario Gold Deposits, pp. 41, 42
P. E. Hopkins.

Ont. Dept. Mines - Vol. XXXIX, Part II, 1930
Sturgeon Lake Gold Area, pp. 36-50,
A. R. Graham

Ont. Dept. Mines - Geological Report No. 24, 1964
Metlonga Lake Area,
D. P. Rogers.

Ont. Dept. Mines - Preliminary Map No. P. 253, 1966,
Minitaki-Sturgeon Lakes Sheet,
1" = 2 miles.

Aeromagnetic Map Ignace No. 7104,
1" = 4 miles.

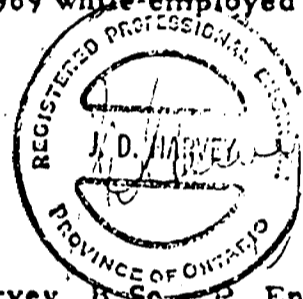
Aeromagnetic Maps
Watcomb No. 1127 G
Bell Lake No. 1117 G
Sturgeon Lake 1118 G
1" = 1 mile

Crone, J. D. Report for Mattagami Lake Mines Ltd.,
on geophysical surveys, Group 30
Sturgeon Lake Area.

CERTIFICATE OF QUALIFICATION

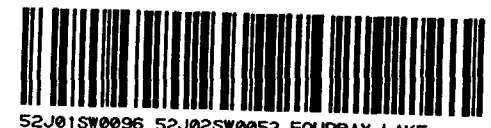
I, J. D. Harvey, of the City of Toronto, in the County of York, Province of Ontario, hereby certify:

- 1) That I am a geologist residing at 293 Doris Ave., Toronto, Ont.
- 2) That I am graduate of the University of New Brunswick with the Degree of Bachelor of Science.
- 3) That I am a registered Professional Engineer in the Province of Ontario and have practised my profession as Geologist for a total of 10 years.
- 4) That the accompanying report is based on personal knowledge of the property gained during August, 1969 while employed by Mattagami Lake Mines Ltd.

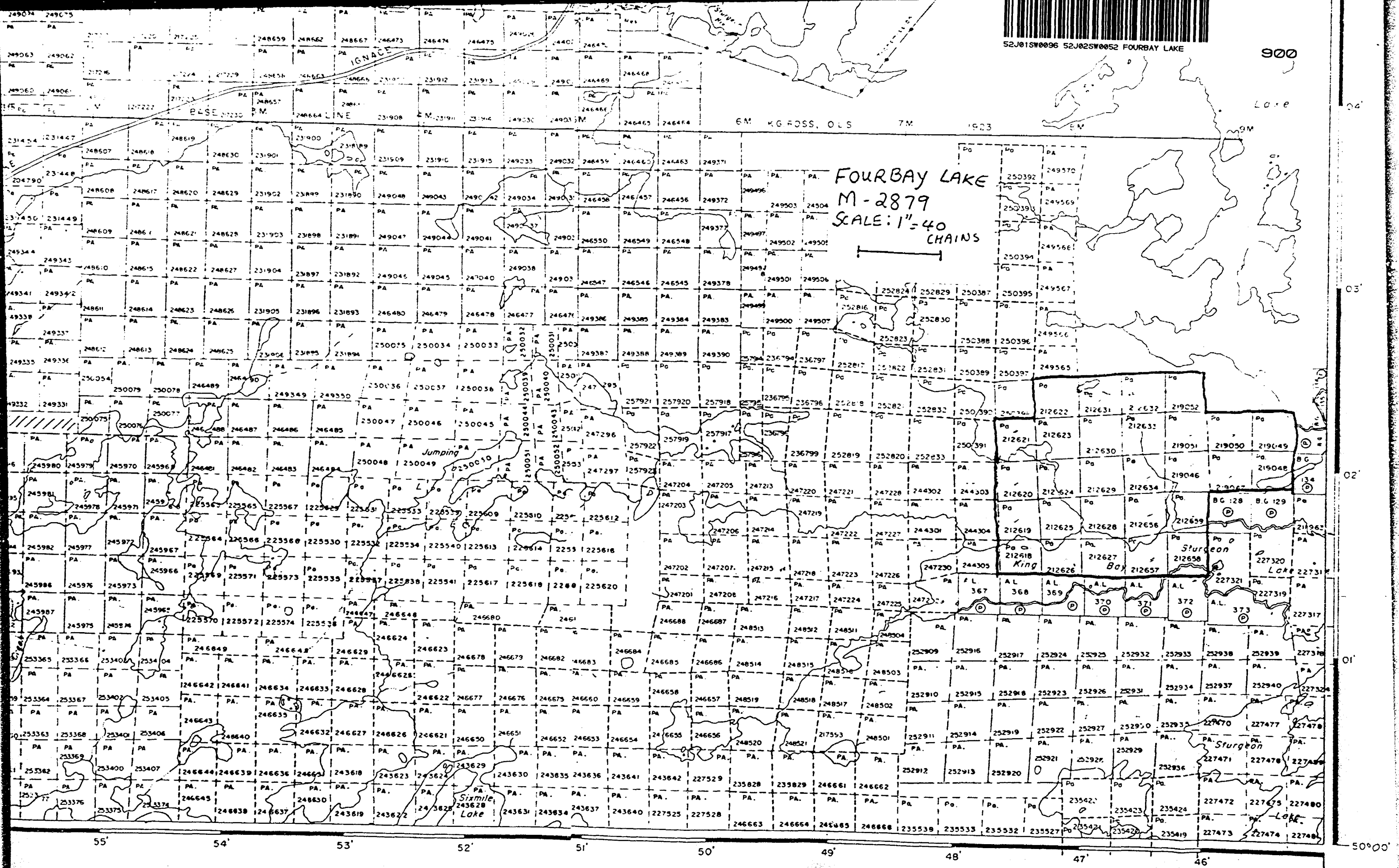


J. D. Harvey, B.Sc., P. Eng.

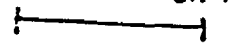
May 31, 1970.



900



FOURBAY LAKE
M-2879
SCALE: 1"=40
CHAINS



55' 54' 53' 52' 51' 50' 49' 48' 47' 46'

Sixmile Lake

50'00"

FOUR BAY LAKE

GROUP '30'

#163



ONTARIO

M-2877

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of..... PATRICIA Mining Division

I, MATTAGAMI LAKE MINES LIMITED T - 84

name of Recorded Holder

Miner's Licence

205 - 8 King St. East, Toronto

Post Office Address

do hereby report the performance of 315 days of Magnetometer Survey.....

type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
.....
.....
.....	SEE ATTACHED LIST
.....
.....

All the work was performed on Mining Claim (s) as above
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.

For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.

For Compressed Air or Other Power Driven or Mechanical Equipment

Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.

For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.

With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.

For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.

For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

GEOPHYSICS

L. GERVAIS - 510-St-Regis,
St. Isidore, Quebec.

August 1 - 30/69.

INSTRUMENT USED -

McPHAR M 700 FLUXGATE MAG

Date May 12, 1970.....

Signature of Recorded Holder or Agent
John D. Harvey

The Mining Act
Certificate Verifying Report of Work

I, JOHN D. HARVEY

..... 205 - 8 King St. East, Toronto
(Post Office Address)

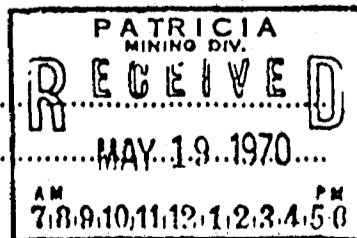
hereby certify:

1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.

2. That the annexed report is true.

Dated May 12, 1970.....

Signature
John D. Harvey



THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

#63

GROUP '30'

MAGNETOMETER SURVEY

ASSESSMENT CREDITS:

GEOPHYSICS

$$1. \text{ Gervais} - 30 \text{ days} \times \frac{12}{8} \text{ hours} \times 7 = \underline{\underline{315 \text{ days}}}$$

Total----- 315 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS;

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	11	PA 212632	11
PA 212619	14	PA 212633	11
PA 212620	14	PA 212634	11
PA 212621	12	PA 212656	11
PA 212622	11	PA 212657	11
PA 212623	11	PA 212658	11
PA 212624	11	PA 212659	11
PA 212625	11	PA 219046	11
PA 212626	11	PA 219047	11
PA 212627	11	PA 219048	11
PA 212628	11	PA 219049	11
PA 212629	11	PA 219050	11
PA 212630	11	PA 219051	11
PA 212631	11	PA 219052	11

FOUR BAY LAKE
#64 M-2877

GROUP '30'

#64



ONTARIO

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of.....PATRICIA.....Mining Division
I,MATTAGAMI LAKE MINES LIMITED.....T - 84
name of Recorded Holder Miner's Licence
.....205 - 8 King Street East, Toronto.....
Post Office Address
do hereby report the performance of675.....days of Electromagnetic Survey.....
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
.....
.....
.....
.....
.....
.....
.....
.....

SEE ...ATTACHED ...LIST

All the work was performed on Mining Claim (s)A.S. a. Gouge.....
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
- Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

LINE CUTTING

W. Hanbury - McWatters, Quebec, August 1-30/69

GEOPHYSICS

R. Major - 8 King St. E., Toronto August 1-30/69
G. Venne - Miquelon, Quebec, August 1-30/69

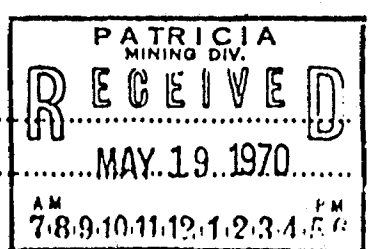
INSTRUMENT USED - CRONE J. E. M. SHOOTBACK

DateMay 12, 1970.....

John D. Harvey
Signature of Recorded Holder or Agent
John D. Harvey

The Mining Act
Certificate Verifying Report of Work

I,JOHN D. HARVEY.....
.....205 - 8 King St. East, Toronto.....
(Post Office Address)



hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated.....May 12 1970.....

John D. Harvey
Signature
John D. Harvey

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

64

ASSESSMENT CREDITS:LINE CUTTING:

W. Hanbury - 30 days x $\frac{12}{8}$ hours x 1 = 45 days

GEOPHYSICS:

R. Major - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

G. Venne - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

Total----- 675 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS;

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	27	PA 212632	24
PA 212619	24	PA 212633	24
PA 212620	24	PA 212634	24
PA 212621	24	PA 212656	24
PA 212622	24	PA 212657	24
PA 212623	24	PA 212658	24
PA 212624	24	PA 212659	24
PA 212625	24	PA 219046	24
PA 212626	24	PA 219047	24
PA 212627	24	PA 219048	24
PA 212628	24	PA 219049	24
PA 212629	24	PA 219050	24
PA 212630	24	PA 219051	24
PA 212631	24	PA 219052	24

FOUR DAY LAKE

GROUP '30'

#65

#65



ONTARIO

M-2877

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of..... PATRICIA.....Mining Division

I,..... MATTAGAMI LAKE MINES LIMITED..... T - 84

name of Recorded Holder..... Miner's Licence

..... 205 - 8 King St. East, Toronto..... Post Office Address

do hereby report the performance of 693..... days of GEOLOGICAL..... type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
.....
.....
.....
.....
.....
.....
.....
.....

SEE...ATTACHED...LIST

All the work was performed on Mining Claim (s) AS ABOVE
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment - Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

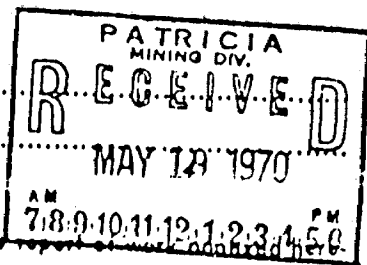
GEOLOGY

- J. Harvey - 205 - 8 King St. E. Toronto August 21-27/69
- A. Jackson - Minnedosa, Man. August 1-30/69
- B. Taylor - Newcastle, N. B. August 1-30/69

Date..... May 12, 1970.....
Signature of Recorded Holder or Agent..... John D. Harvey

The Mining Act Certificate Verifying Report of Work

I,..... JOHN D. HARVEY.....
..... 205 - 8 King St. East, Toronto.....
(Post Office Address)



- hereby certify:
- That I have a personal and intimate knowledge of the facts set forth in the report to, having performed the work or witnessed same during and/or after its completion.
 - That the annexed report is true.

Dated..... May 12 1970.....
Signature..... John D. Harvey

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

#65

ASSESSMENT CREDITS:GEOLOGY

J. Harvey - 6 days x $\frac{12}{8}$ hours x 7 = 63 days
 W. Jackson - 30 days x $\frac{12}{8}$ hours x 7 = 52.5 days
 B. Taylor - 30 days x $\frac{12}{8}$ hours x 7 = 52.5 days
 Total----- 693 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS;

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	25	PA 212632	25
PA 212619	22	PA 212633	25
PA 212620	22	PA 212634	25
PA 212621	24	PA 212656	25
PA 212622	25	PA 212657	25
PA 212623	25	PA 212658	25
PA 212624	25	PA 212659	25
PA 212625	25	PA 219046	25
PA 212626	25	PA 219047	25
PA 212627	25	PA 219048	25
PA 212628	25	PA 219049	25
PA 212629	25	PA 219050	25
PA 212630	25	PA 219051	25
PA 212631	25	PA 219052	25

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
MAGNETOMETER	510 St. - Denis L. Gervais St. Isidore, P. Q.	Aug. 1-30/69	45
ELECTROMAGNETIC	R. Major } 8 King St. E., Toronto	Aug. 1-30/69	45
	G. Yenne Miquelon, P. Q.	Aug. 1-30/69	45
GEOLOGICAL	J. Harvey } 8 King St. E., Toronto	Aug. 21-27/69	9
	G. Jackson } Toronto	Aug. 1-30/69	45
	B. Taylor Newcastle, N. B.	Aug. 1-30/69	45

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR TECHNICAL DAYS _____

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
W. Hanbury	McWatters, Quebec.	Aug. 1-30/69	45

TOTAL 8 HOUR LINE-CUTTING DAYS 279

ASSESSMENT WORK BREAKDOWN

1. Type of Survey **MAGNETOMETER**
2. Township or Area **FOURDAY LAKE AREA**
3. Numbers of Mining Claims Traversed by Survey
- PA 212618 to 212634 inclusive
- PA 212656 to 212659 "
- PA 219046 to 219052 "
-
4. Number of Miles of Line Cut **10.1** Flown
- *5. Number of Stations Established **253**
- *6. Make and type of Instrument Used **McPHAR M 700 FLUXGATE**
- **± 10 Gammas**
- *7. Scale Constant or Sensitivity
- *8. Frequency Used and Power Output

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) **45**

Total 8 hour Line-Cutting Days **45**

Calculation

$$\frac{45}{\text{Technical}} \times 7 = \frac{315}{\text{Line-cutting}} + \frac{45}{\text{Line-cutting}} = \frac{360}{\text{Line-cutting}} \div \frac{28}{\text{Number of claims}} = \frac{12.9}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
 If otherwise, please explain

Dated: **October 8, 1970.**

Signed: *J. D. Harvey*
J. D. Harvey

- Note: (A) * Complete only if applicable.
 (B) Complete list of names, addresses and dates on reverse side.
 (C) Submit separate breakdown for each type of survey.
 (D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

- 1. Type of Survey ELECTROMAGNETIC.....
- 2. Township or Area FOURBAY LAKE AREA.....
- 3. Numbers of Mining Claims Traversed by Survey
 PA 212618 to 212634 inclusive.....
 PA 212656 to 212659 ".....
 PA 219046 to 219052 ".....
- 4. Number of Miles of Line Cut 10.1..... Flown
- *5. Number of Stations Established 542.....
- *6. Make and type of Instrument Used CRONE J. E. M. SHOOTBACK.....
- *7. Scale Constant or Sensitivity + 0
 - 1 Resultant Dip Angle.....
- *8. Frequency Used and Power Output 480 - 1800 cps.....

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 90.....
 Total 8 hour Line-Cutting Days

Calculation

$$\frac{90}{\text{Technical}} \times 7 = \frac{630}{\text{Line-cutting}} + \frac{630}{\text{Number of claims}} \div \frac{28}{\text{Assessment credits per claim}} = \frac{22.5}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
 If otherwise, please explain

Dated: October 8, 1970.....

Signed: *J. D. Harvey*.....
 J. D. Harvey

- Note: (A) * Complete only if applicable.
 (B) Complete list of names, addresses and dates on reverse side.
 (C) Submit separate breakdown for each type of survey.
 (D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

1. Type of Survey GEOLOGICAL
2. Township or Area FOURBAY LAKE AREA
3. Numbers of Mining Claims Traversed by Survey
- PA 212618 to 212634 Inclusive
- PA 212656 to 212659 " "
- PA 219046 to 219052 " "
-
4. Number of Miles of Line Cut 10.1 Flown
- *5. Number of Stations Established
- *6. Make and type of Instrument Used
- *7. Scale Constant or Sensitivity
- *8. Frequency Used and Power Output

9. Summary of Assessment Credits (details on reverse side)
- Total 8 hour Technical Days (Include Consultants, Draughting etc.) 99
- Total 8 hour Line-Cutting Days

Calculation

$$\frac{99}{\text{Technical}} \times 7 = \frac{693}{\text{Line-cutting}} = \frac{693}{28} \div \frac{\text{Number of claims}}{28} = \frac{24.8}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
 If otherwise, please explain

Dated: October 8, 1970.

Signed: J. D. Harvey

- Note: (A) * Complete only if applicable.
 (B) Complete list of names, addresses and dates on reverse side.
 (C) Submit separate breakdown for each type of survey.
 (D) Submit in duplicate.

MAGNETOMETER SURVEY

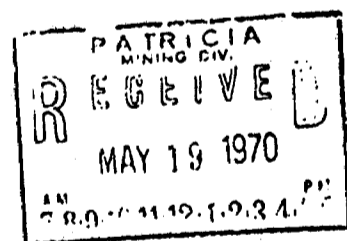
ASSESSMENT CREDITS:GEOPHYSICS

1. Gervais - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

Total----- 315 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS:

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	11	PA 212632	11
PA 212619	14	PA 212633	11
PA 212620	14	PA 212634	11
PA 212621	12	PA 212656	11
PA 212622	11	PA 212657	11
PA 212623	11	PA 212658	11
PA 212624	11	PA 212659	11
PA 212625	11	PA 219046	11
PA 212626	11	PA 219047	11
PA 212627	11	PA 219048	11
PA 212628	11	PA 219049	11
PA 212629	11	PA 219050	11
PA 212630	11	PA 219051	11
PA 212631	11	PA 219052	11



52 0/2 SW (35) D

GROUP '30'

GEOLOGICAL SURVEY

ASSESSMENT CREDITS:

GEOLOGY

J. Harvey - 6 days x $\frac{12}{8}$ hours x 7 = 63 days

W. Jackson - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

B. Taylor - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

Total----- 693 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS;

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	25	PA 212632	25
PA 212619	22	PA 212633	25
PA 212620	22	PA 212634	25
PA 212621	24	PA 212656	25
PA 212622	25	PA 212657	25
PA 212623	25	PA 212658	25
PA 212624	25	PA 212659	25
PA 212625	25	PA 219046	25
PA 212626	25	PA 219047	25
PA 212627	25	PA 219048	25
PA 212628	25	PA 219049	25
PA 212629	25	PA 219050	25
PA 212630	25	PA 219051	25
PA 212631	25	PA 219052	25

PATRICIA
MINING DIV.
RECEIVED
MAY 19 1970
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

42 J/02 SW (35)

GROUP '30'

ELECTROMAGNETIC SURVEY

ASSESSMENT CREDITS:

LINE CUTTING:

W. Hanbury - 30 days x $\frac{12}{8}$ hours x 1 = 45 days

GEOPHYSICS:

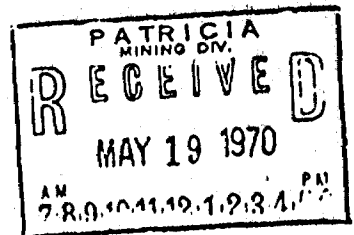
R. Major - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

G. Venne - 30 days x $\frac{12}{8}$ hours x 7 = 315 days

Total----- 675 days

TO BE APPLIED ON FOLLOWING CONTIGUOUS CLAIMS:

CLAIM NO.	DAYS	CLAIM NO.	DAYS
PA 212618	27	PA 212632	24
PA 212619	24	PA 212633	24
PA 212620	24	PA 212634	24
PA 212621	24	PA 212656	24
PA 212622	24	PA 212657	24
PA 212623	24	PA 212658	24
PA 212624	24	PA 212659	24
PA 212625	24	PA 219046	24
PA 212626	24	PA 219047	24
PA 212627	24	PA 219048	24
PA 212628	24	PA 219049	24
PA 212629	24	PA 219050	24
PA 212630	24	PA 219051	24
PA 212631	24	PA 219052	24



AREA CODE — 416
TELEPHONE — 365-6918



63.2819

WHITNEY BLOCK
QUEEN'S PARK
TORONTO, ONT.

DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH

November 23, 1970.

Mr. W. A. Buchan,
Mining Recorder,
Court House,
Sioux Lookout, Ont.

Dear Sir:

Re: Mining Claim No. Pa. 212620 et al,
Fourbay Lake Area.

The Geophysical and Geological assessment work credits as listed with my Notice of Intent dated November 2, 1970 have been approved as of the date above. Please inform the recorded holder and so indicate on your records.

Yours very truly,


A handwritten signature in cursive script, appearing to read "F. Matthews".

Fred W. Matthews,
Supervisor,
Projects Section.

/dg.

c.c. Mattagami Lake Mines Ltd.,
205 - 8 King St., E.,
Toronto, Ontario.

c.c. H. L. King, ✓
Resident Geologist,
808 Robertson St.,
Kenora, Ont.

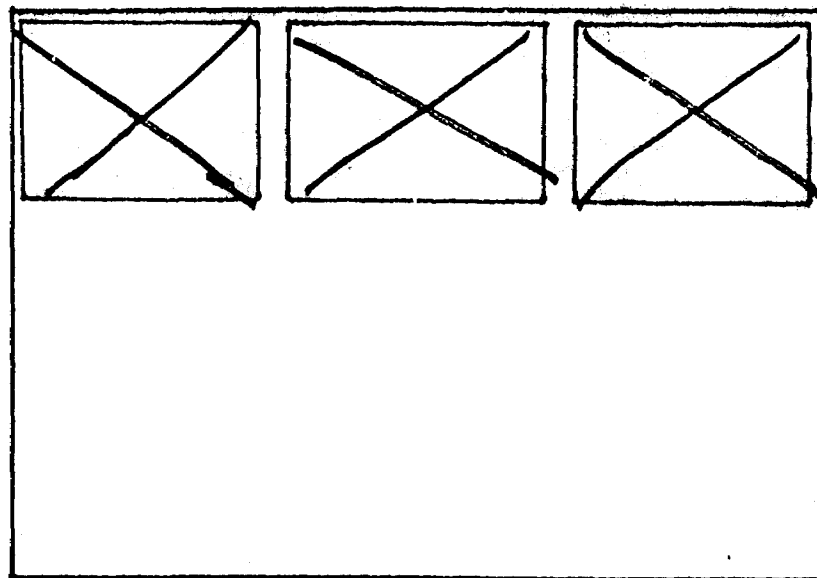


SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

525/02SW-0052 #1-3

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

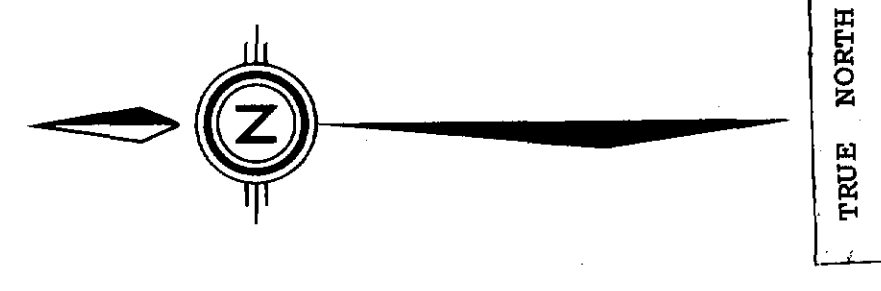
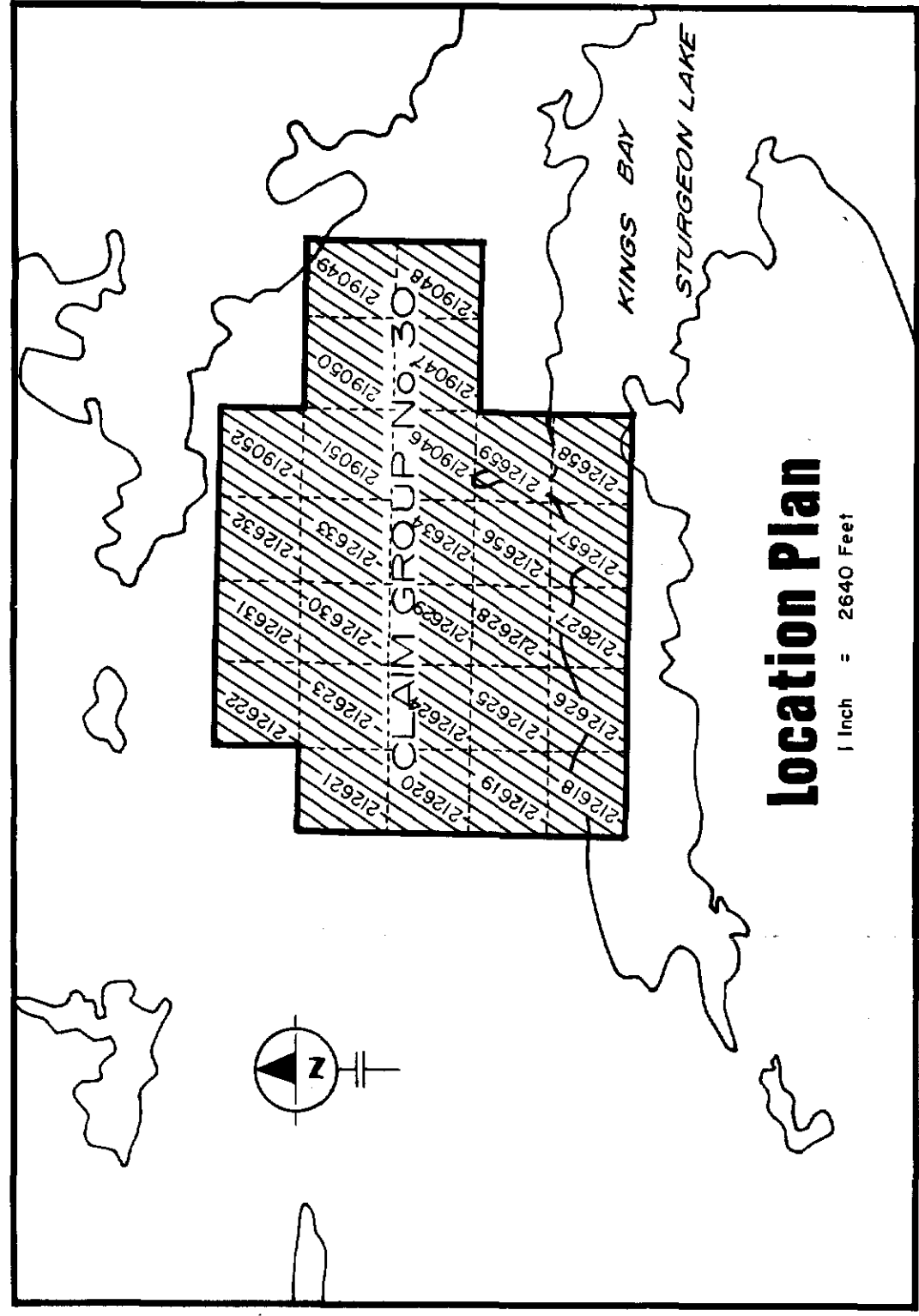
(X)



•FOR ADDITIONAL
INFORMATION

SEE MAPS:

52J/02'SW-0052 # 4



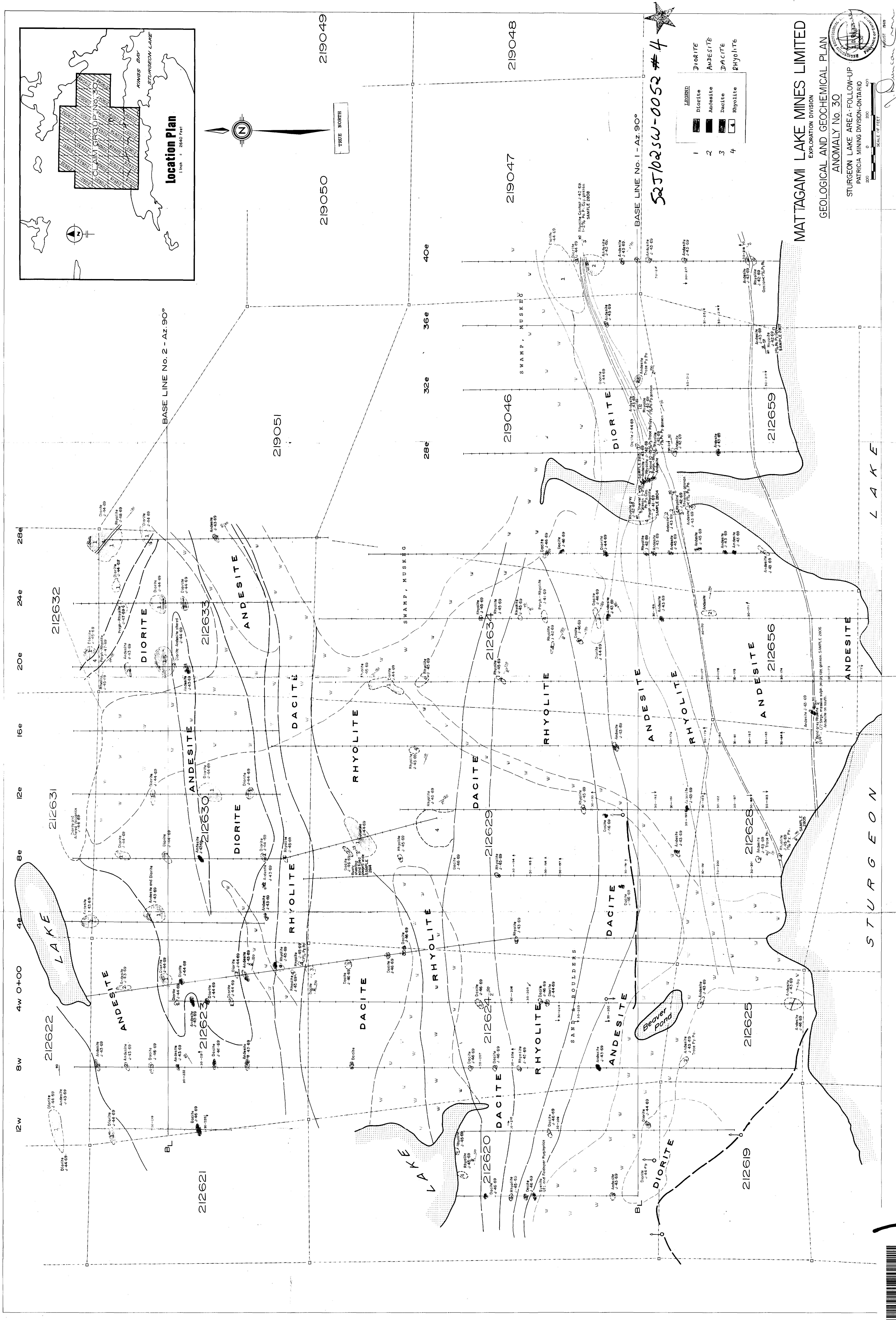
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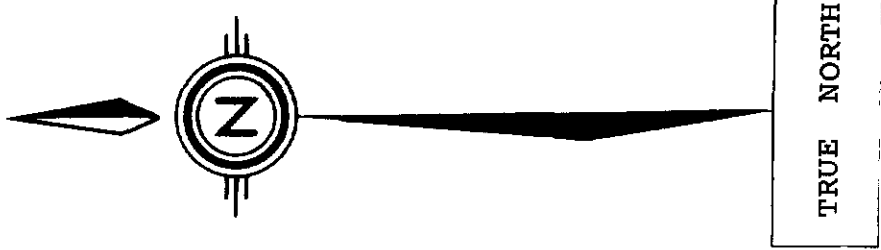
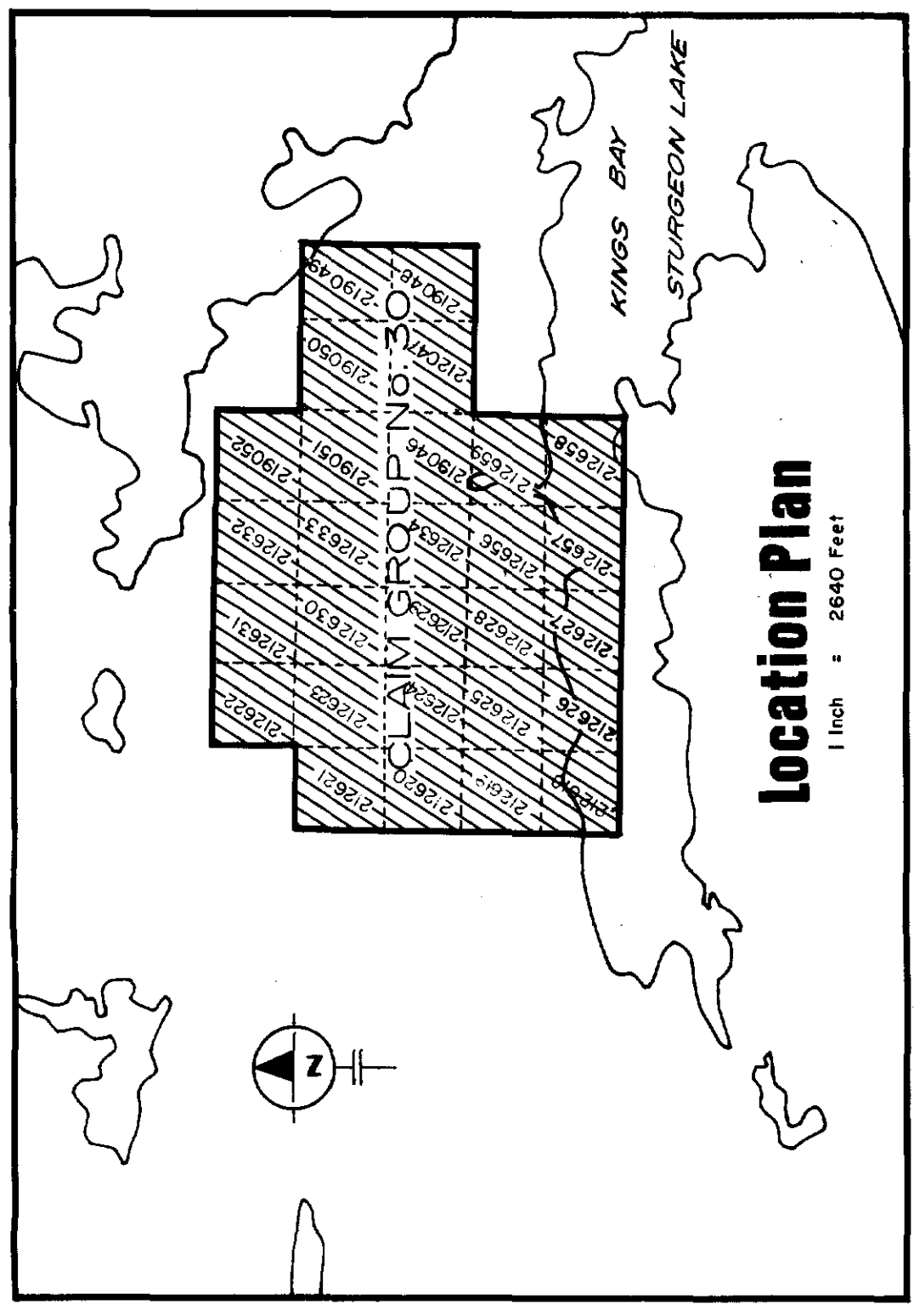
MATTAGAMI LAKE MINES LIMITED
 EXPLORATION DIVISION
ANOMALY No. 30

STURGEON LAKE AREA - FOLLOW-UP
 PATRICIA MINING DIVISION-ONTARIO

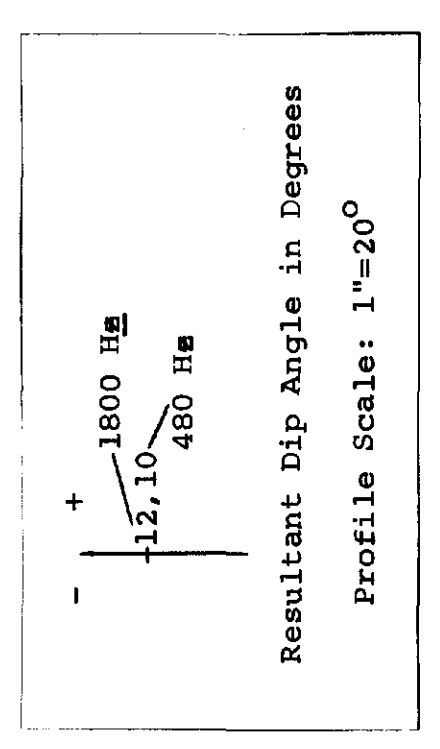


FILE NO: 632819





52J/02sw-0052 #3



INSTRUMENT: CRONE J.E.M. 480-1800 Cps 300' SEPARATION
CONDUCTOR
PROBABLE CONDUCTOR

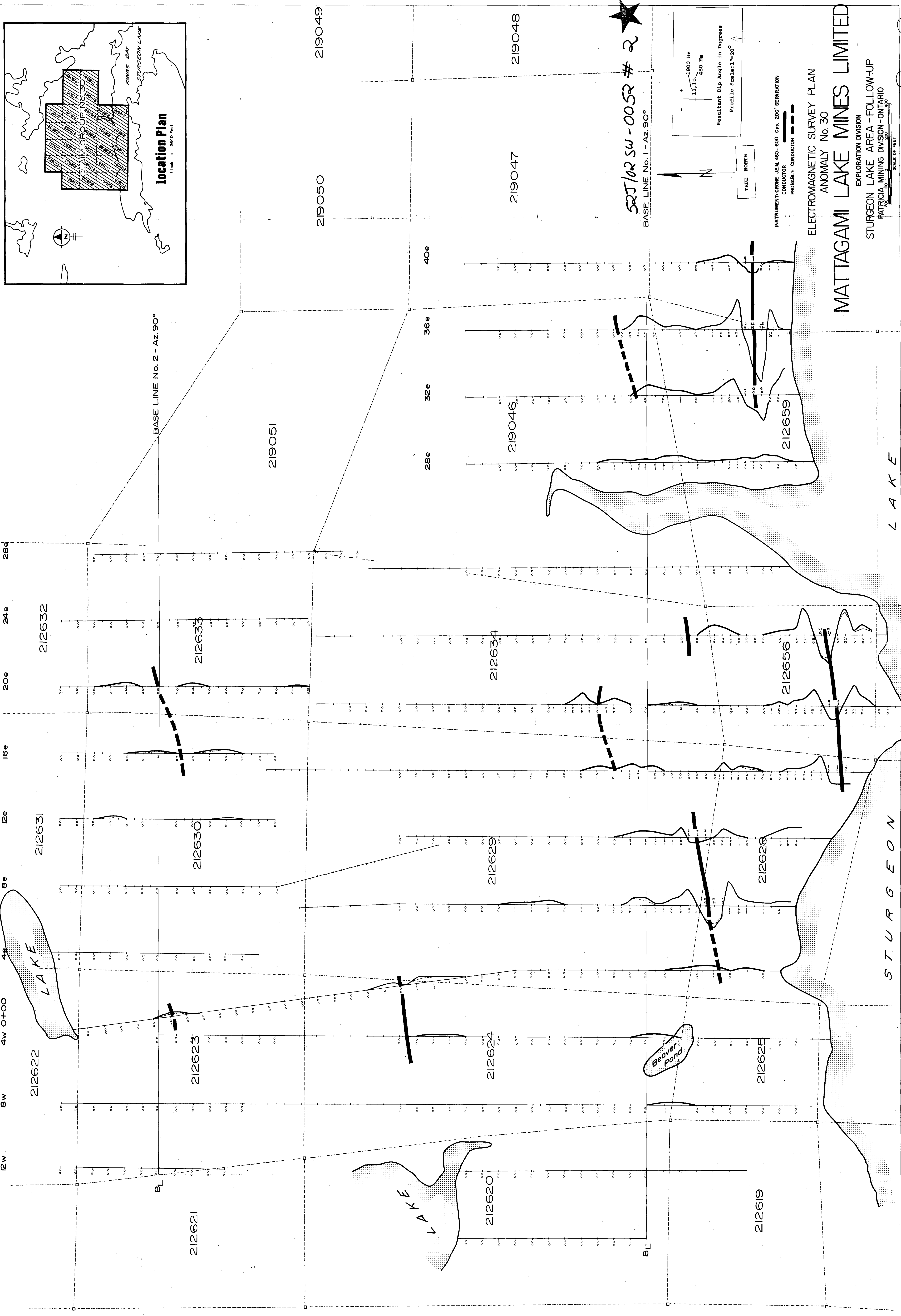
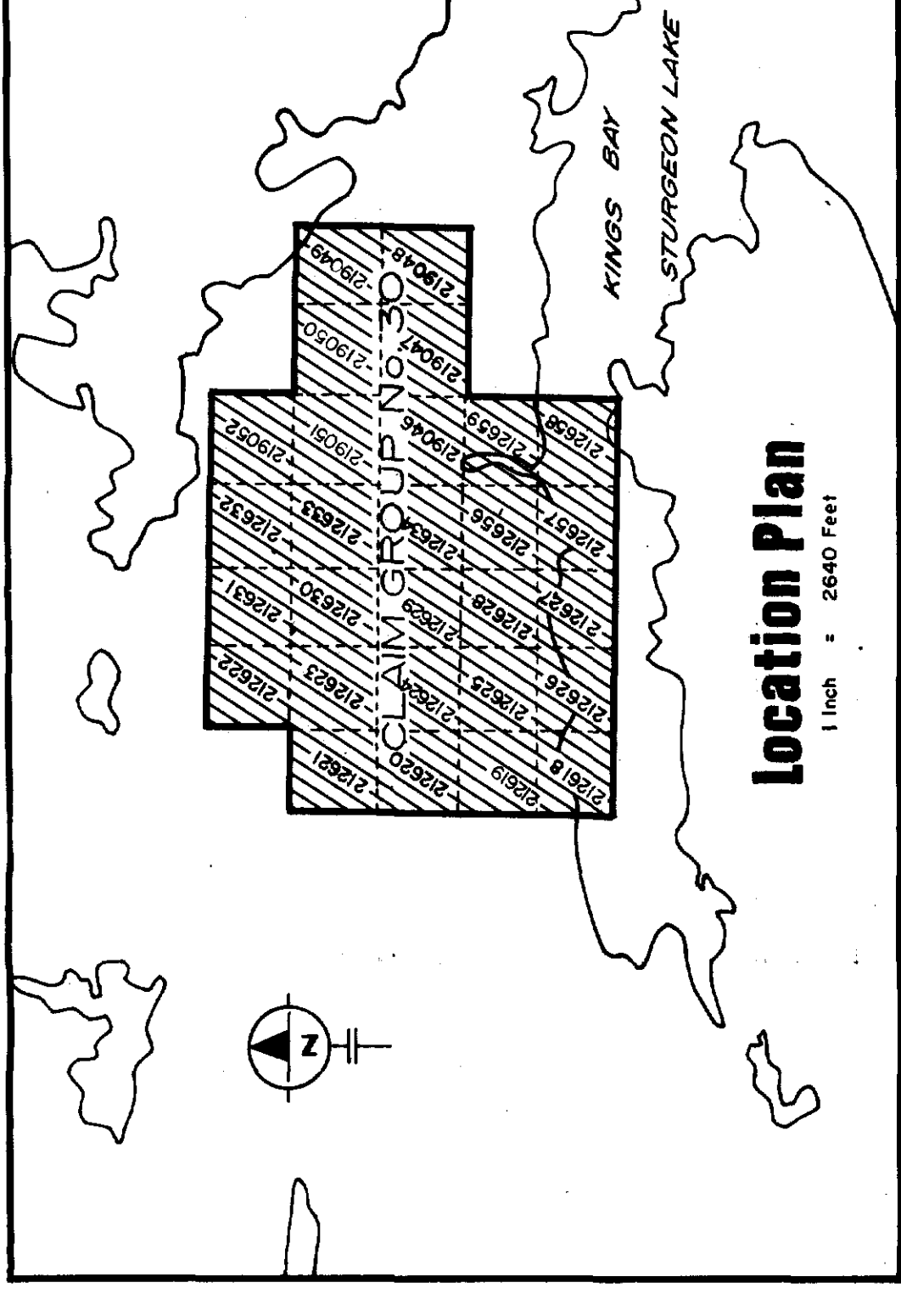
MATTAGAMI LAKE MINES LIMITED
EXPLORATION DIVISION
ELECTROMAGNETIC SURVEY
ANOMALY No. 30
STURGEON LAKE AREA-FOLLOW-UP
PATRICIA MINING DIVISION-ONTARIO

L A K E

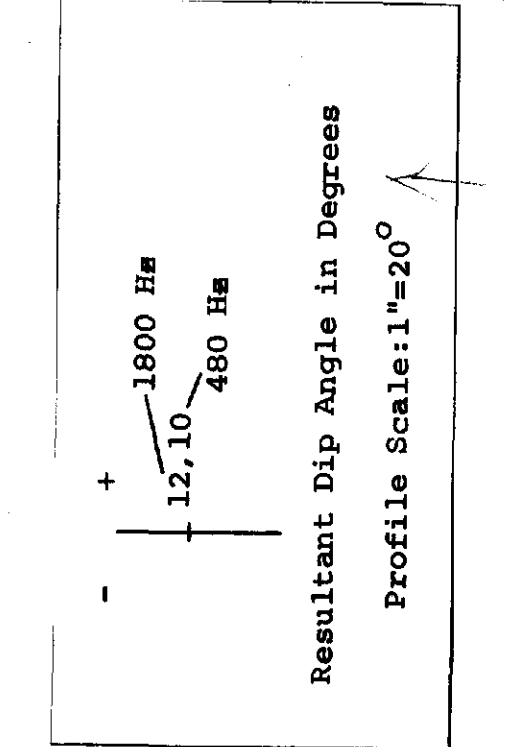
S T U R G E O N

4687 045
D.L.M. CO.
212656 (35)





525/02 SW-0052 # 2



INSTRUMENT CRONE JEAN 480-1800 Cpr. 200 SEPARATION
CONDUCTOR
PROBABLE CONDUCTOR

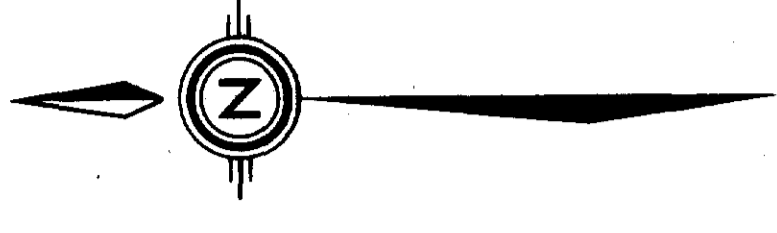
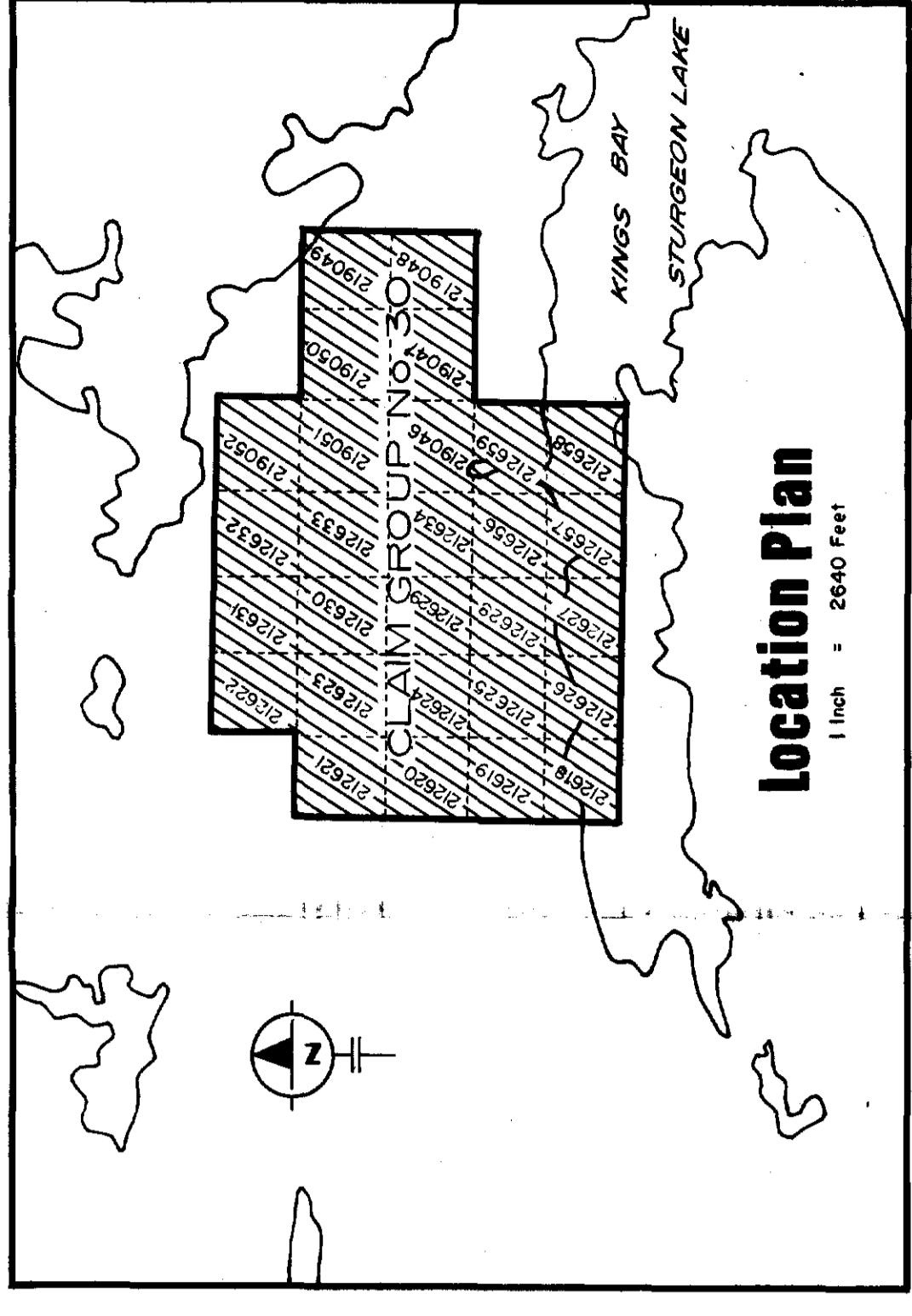
ELECTROMAGNETIC SURVEY PLAN
ANOMALY No. 30
MATTAGAMI LAKE MINES LIMITED
EXPLORATION DIVISION
STURGEON LAKE AREA - FOLLOW-UP
PATRICIA MINING DIVISION-ONTARIO

L A K E

S T U R G E O N

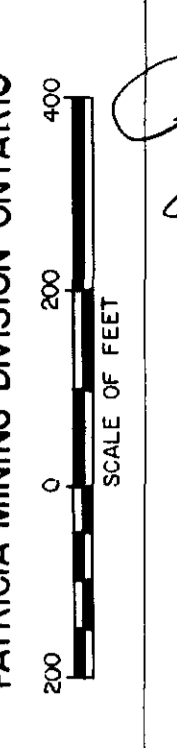
83 2/19





525/02 sw - 0052 # 1

MATTAGAMI LAKE MINES LIMITED
EXPLORATION DIVISION
MAGNETOMETER SURVEY
ANOMALY No. 30
STURGEON LAKE AREA FOLLOW-UP
PATRICIA MINING DIVISION-ONTARIO



STURGEON LAKE

AUGUST 1989

