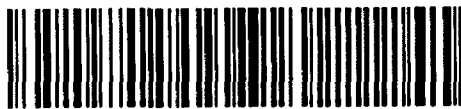


(17) 1970

(17) 1970



52G15NW0173 52G15NW0077A1 SIXMILE LAKE

010

R E P O R T

F O R

CANADEx MINING CORP. LIMITED

covering MAGNETIC and ELECTROMAGNETIC surveys

over their Sturgeon Lake area claim group

PATRICIA MINING DIVISION, ONTARIO

MARCH 1970

CLAIMS, LOCATION & ACCESS

The group consists of 24 contiguous claims numbered 227230 to 227241 and 227243 to 227248 and 227251 to 227256 all inclusive. They are located between Lyon Lake and Sturgeon Lake, 4.5 miles northeast of the Mattagami Lake Mines orebody located on Abitibi Pulp and Paper Block #7. Access is via winter road from the Mattagami mine site or via Sturgeon Lake.

PREVIOUS WORK & REPORTS

The Ontario Department of Mines, 1930 report Part II, Sturgeon Lake Area indicates the area primarily underlain by rhyolitic type rocks. The airborne magnetic map 1118 G, indicates a magnetic anomaly immediately south of Lyon Lake. There is no record of any previous exploration work having been carried out on the Canadex claim group.

LINECUTTING

A total of 22.4 miles of line were cut with a 400' line interval. The work was under contract to George Potter of Kirkland Lake, Ontario with work being carried out between October 15 and November 5, 1969.

INSTRUMENTS USED & OPERATORS

Magnetic - A Sharpe Fluxgate, vertical component magnetometer was used for the survey, reading directly in gammas with an accuracy of ± 15 gammas. Normal drift and diurnal corrections were applied to the readings.

Electromagnetic - The Crone Shootback EM method and equipment were used with a 200' coil separation and a basic reading frequency of 1800 Hz. Low Frequency readings taken at 480 Hz are marked L.F. Recorded reading is the "resultant dip angle in degrees" with an accuracy of plus or minus 1 degree.

Total mileage of the magnetic and electromagnetic surveys was 22.4. Some additional 300' coil separation electromagnetic coverage was carried out over the ice of Sturgeon Lake. Since these latter readings were all 0 or -1, they were not plotted on the map. A limited amount of vertical loop detail over the anomalous readings aided in the interpretation.

Both magnetic and electromagnetic surveys were carried out under the supervision of Garnet Flaherty of Bracebridge, Ontario during the period October 20 to November 20, 1969.

INTERPRETATION

Six separate conductive zones were detected on the claim group. The dip angles are not large, usually in the order of -5 to -6 degrees. This indicates that an excellent conductor

is detected under heavy overburden in the order of 100' to 150' or a moderate conductor is being detected under shallower overburden. Three of the conductors have direct magnetic correlation varying from two hundred to eight hundred gammas. These conductors will be described starting from the south of Lyon Lake and moving northward.

Conductor "A" This conductor occurs within 400' of the south boundary of the claim group under Lyon Lake. It appears wide and formational. It is associated with a magnetic high of 300 to 700 gammas. Overburden is expected to be in the order of 75'. A test hole has been spotted on Line 24 + 00E; 69 + 50S drilling grid south at -550° for a depth of 550'.

Conductor "B" This also occurs under Lyon Lake 500' north of conductor "A". It has weak magnetic correlation in the order of 200 gammas; overburden is expected to be approximately 75'. A test hole has been spotted on line 20E; 64 + 50S drilling south at -550° for 550'.

Conductor "C" This is a short conductor on line 16 + 00E immediately north of Lyon Lake. It is coincident with an 800 gamma magnetic high with overburden expected to be in the order of 40 feet. A test hole is spotted at 57 + 50S line 16 + 00E drilling grid south at -45° to a depth of 400'.

Conductor "D" This conductor crosses the width of the claim group at approximately 48 + 00 south. On lines 12E to 20E the conductor appears to be associated with near by parallel conductors thus it may be a banded formation. Magnetic correlation is very weak to nil. A test hole is spotted on line 12 + 00E, 45 + 50S drilling grid south at -45° to a depth of 700'. Overburden is expected to be in the order of 75' to 100'.

Conductor "E" This conductor is located immediately north of Base Line 30 + 00S between line 0 + 00 and line 20 + 00W. This conductor appears to be in the order of 600' wide with overburden approximately 100' deep. There is no magnetic correlation. One drill hole has been spotted to test the southern half of this conductor - if any values are obtained in this hole then another identical hole should be drilled from a position 400 feet grid north of this hole. The first hole is collared on Line 8 + 00W, 25 + 00 south, drilling at -45° to a depth of 700 feet.

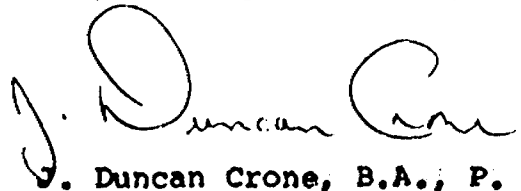
Conductor "F" This conductor at first appears to be a continuation of conductor D, being located approximately at 22 + 00 south between lines 8 + 00E and 12 + 00E. However this conductor has a flanking magnetic high of 2500 to 5000 gammas immediately to the south. Width of the conductor is in the order of 50 feet to 100 feet and depth less than 50 feet. A test hole has been spotted at 20 + 00S, line 12 + 00E drilling at -45° in a due south direction for 500 feet.

CONCLUSIONS

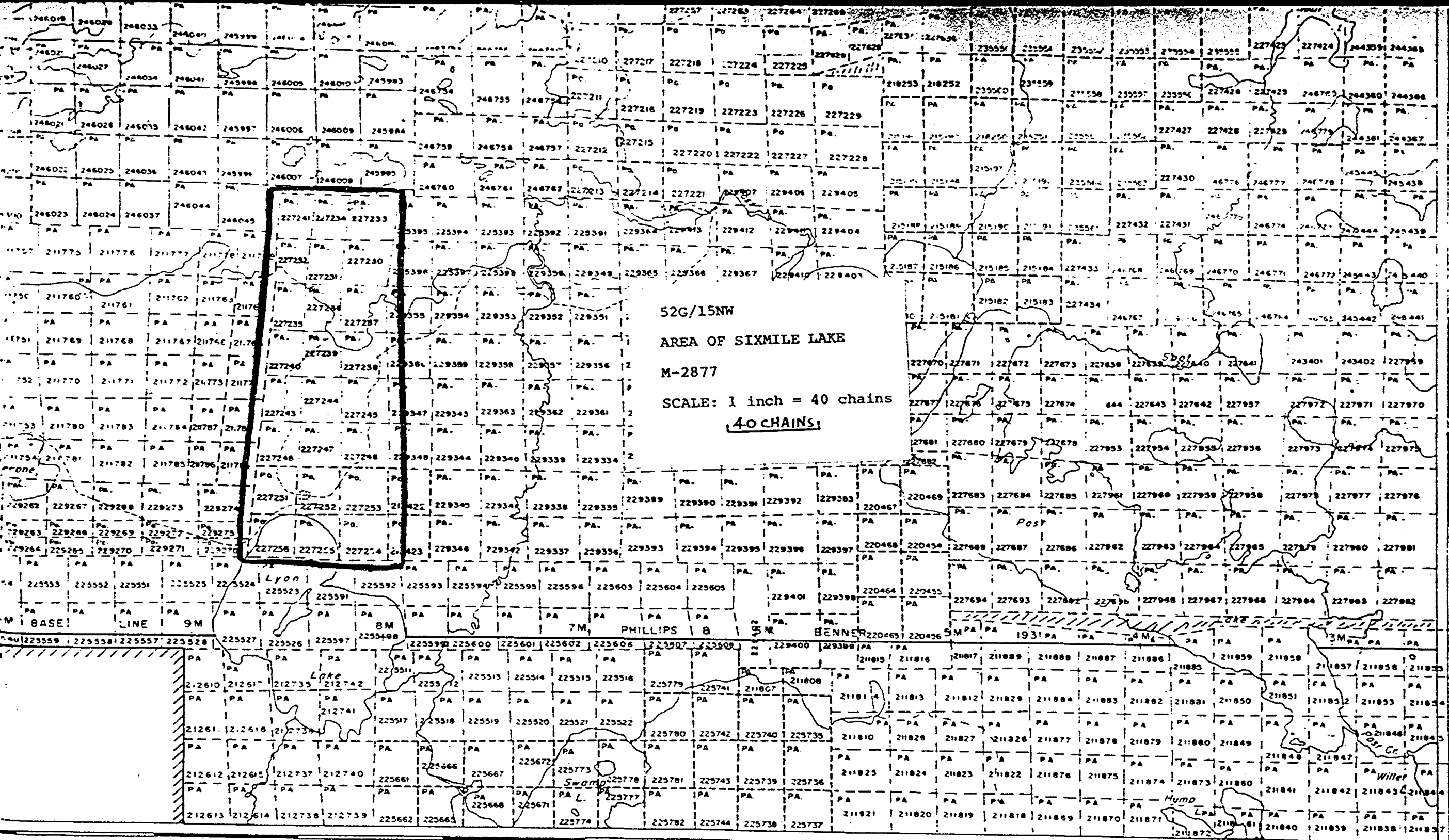
Six conductors were located all striking N 65° W. The conductors in most cases appear to dip between vertical and 70°N. They are usually of considerable width (greater than 100 feet) but most of this width being fracture filling type sulphide mineralization or interconnected bands of graphite.

A hole has been located to test each conductor. If values are intersected in a conductor then it is recommended that a RADEM-VLF-EM survey measuring dip angle and field strength be carried out on a detail grid with 200' line interval over the length of the conductor. This would assist in locating follow-up drill holes.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. Duncan Crone".

J. Duncan Crone, B.A., P. Eng.
Geophysicist.



55' 54' 53' 52' 51' 50' 49' 48' 47' 46' 90°45'

56'
55'
54'
53'

SPECIAL PROVISION
ASSESSMENT WORK DETAILS
Magnetic Survey

NAMES AND ADDRESSES

Chief Line Cutter or Contractor George Potter, Kirkland Lake, Ontario
Party Chief Garnet Flaherty, Bracebridge, Ontario
Consultant Duncan Crone, Port Credit, Ontario

COVERING DATES

Line Cutting October 15 to November 5, 1969
Field and Office October 20 to November 30, 1969

INSTRUMENT DATA

Make, Model and Type Sharpe Fluxgate MF-1
Scale Constant or Sensitivity directly in gammas \pm 15 gammas
or provide copy of instrument data from Manufacturer's brochure
Total Number of Stations Within Claim Group 1068
Number of Miles of Line cut Within Claim Group 22.4

ASSESSMENT WORK CREDITS REQUESTED

Geological Survey _____ Days per Claim
Geophysical Survey 40 Days per Claim

MINING CLAIMS TRAVERSED

PA 227230, PA 227231, PA 227232, PA 227233, PA 227234, PA 227235,
PA 227236, PA 227237, PA 227238, PA 227239, PA 227240, PA 227241,
PA 227243, PA 227244, PA 227245, PA 227246, PA 227247, PA 227248,
PA 227251, PA 227252, PA 227253, PA 227254, PA 227255, PA 227256,

TOTAL 24
DATE April 20, 1970 SIGNED J. Duncan Crone

SPECIAL PROVISION

ASSESSMENT WORK DETAILS

Electromagnetic Survey

NAMES AND ADDRESSES

Chief Line Cutter or Contractor George Potter, Kirkland Lake, Ontario
Party Chief Garnet Flaherty, Bracebridge, Ontario
Consultant Duncan Crone, Port Credit, Ontario

COVERING DATES

Line Cutting October 15 to November 5, 1969
Field and Office October 20 to November 30, 1969

INSTRUMENT DATA

Make, Model and Type Crone Shootback JEM - 480 - 1800 Hz
Scale Constant or Sensitivity + 1
or provide copy of instrument data from Manufacturer's brochure
Total Number of Stations Within Claim Group 1072
Number of Miles of Line cut Within Claim Group 22.4

ASSESSMENT WORK CREDITS REQUESTED

Geological Survey _____ Days per Claim
Geophysical Survey 20 Days per Claim

MINING CLAIMS TRAVERSED

PA 227230, PA 227231, PA 227232, PA 227233, PA 227234, PA 227235,
PA 227236, PA 227237, PA 227238, PA 227239, PA 227240, PA 227241,
PA 227243, PA 227244, PA 227245, PA 227246, PA 227247, PA 227248,
PA 227251, PA 227252, PA 227253, PA 227254, PA 227255, PA 227256,

TOTAL 24

DATE April 20, 1970 SIGNED Duncan Crone

AREA CODE — 416
TELEPHONE — 365-6918



63.2815

52 J/15 NW
WHITNEY BLOCK,
QUEEN'S PARK,
TORONTO 182, ONT

DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH

November 10th, 1970.

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

Dear Sir:

Re: Mining Claim no. Pa. 227230 et al,
Sioux Lake Area.

The Geophysical assessment work credits as shown on the attached list 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 "Fred W. Matthews".

Fred W. Matthews,
Supervisor,
Projects Section.

/dg.

c.c. Gordon G. Flaskett,
1501-380 Bay Street,
Toronto, Ont.

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



TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder ..Gordon G. Plaskett.....

Township or Area ..Sixmile Lake.....

Type of Survey and number of Assessment Days Credits per claim

GEOPHYSICAL Airborne Ground

Magnetometer40.....days

Electromagnetic20.....days

Radiometricdays

.....days

GEOLOGICAL.....days

GEOCHEMICAL.....days

SECTION 84 (14).....days

Special Provision Man days

NOTICE OF INTENT TO BE ISSUED

Credits have been reduced because of partial coverage of claims.

Credits have been reduced because of corrections to work dates and figures of applicant.

NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

Mining Claims

Pa. 227230 to 41 incl.

227243 to 48 incl.

227251 to 56 incl.

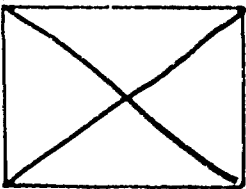
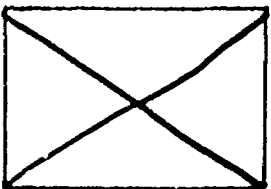
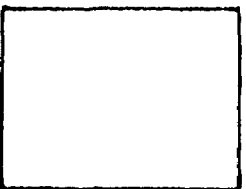
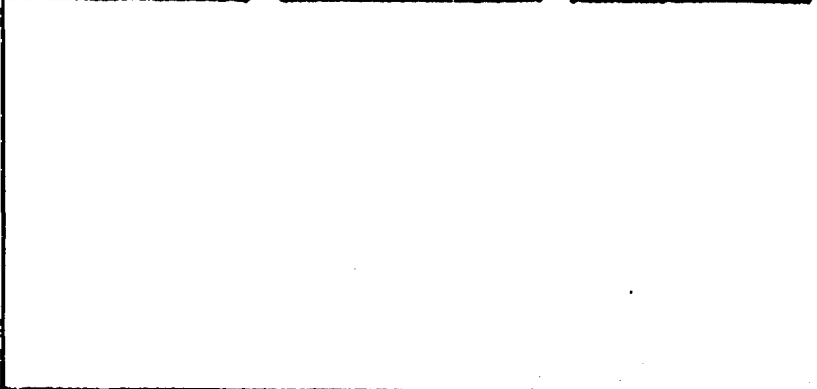
The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40;

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

526/15NW-0077-A1# 1-2

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)

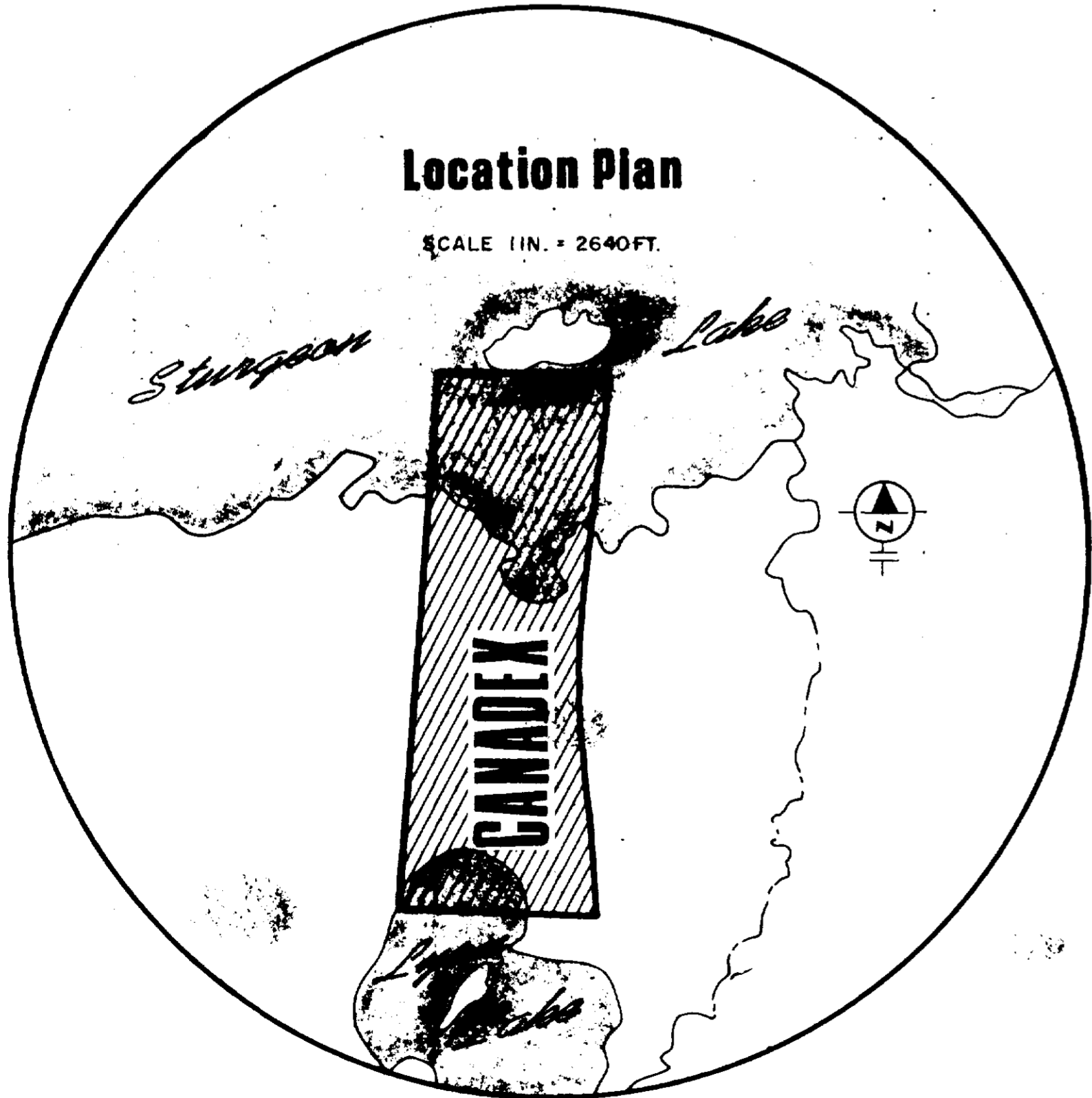
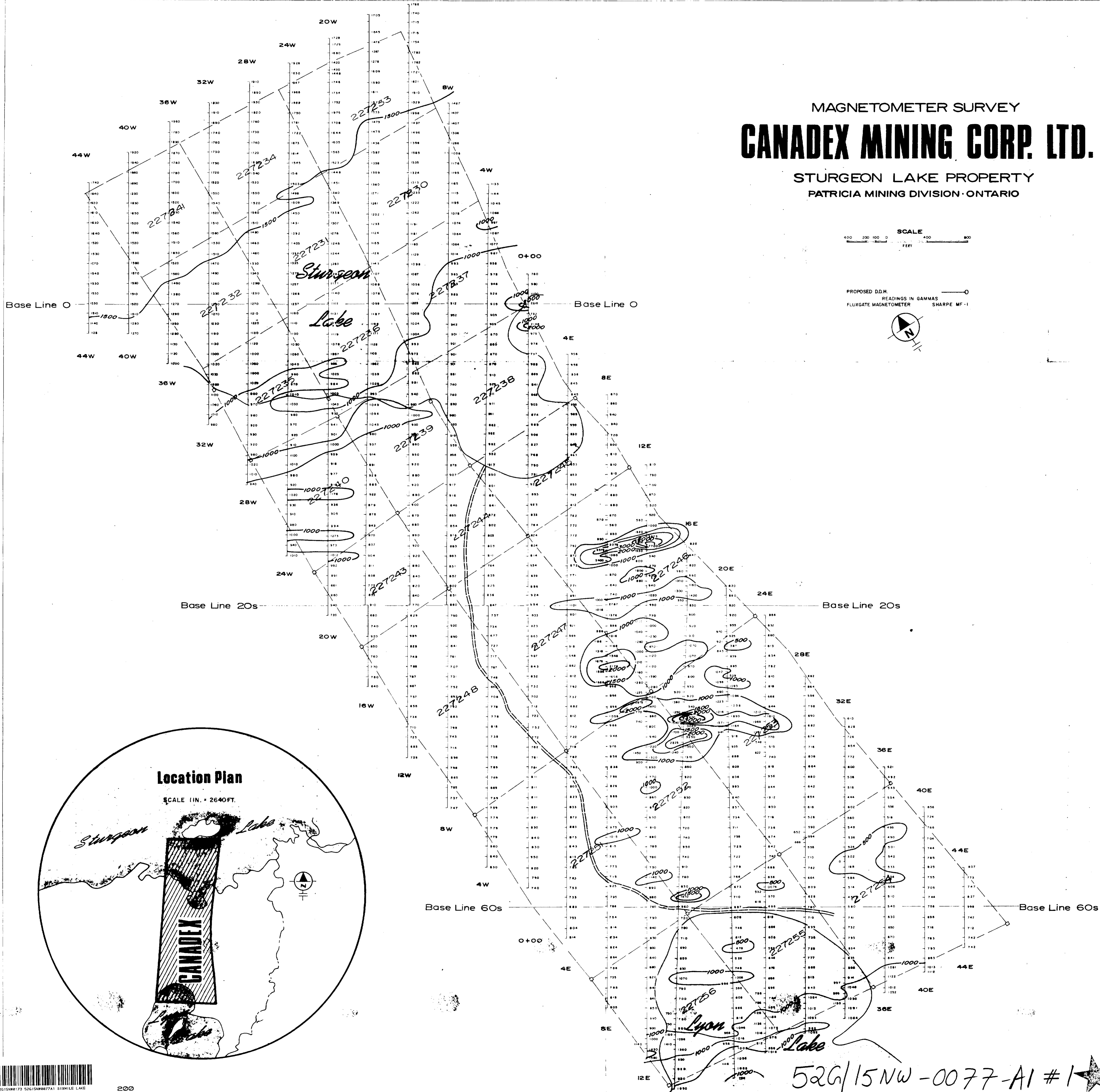
		
		

MAGNETOMETER SURVEY
CANADEx MINING CORP. LTD.

STURGEON LAKE PROPERTY
 PATRICIA MINING DIVISION - ONTARIO



PROPOSED D.M.
 READINGS IN GAMMAS
 FLUXGATE MAGNETOMETER SHARPE MF-1



200

52G/15NW-0077-A1 #1



J. D. Crone

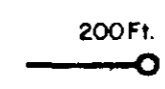
APRIL 1976

ELECTROMAGNETIC SURVEY
CANADIX MINING CORP. LTD. 63.2815

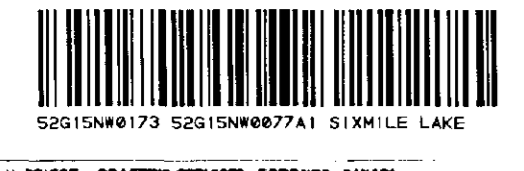
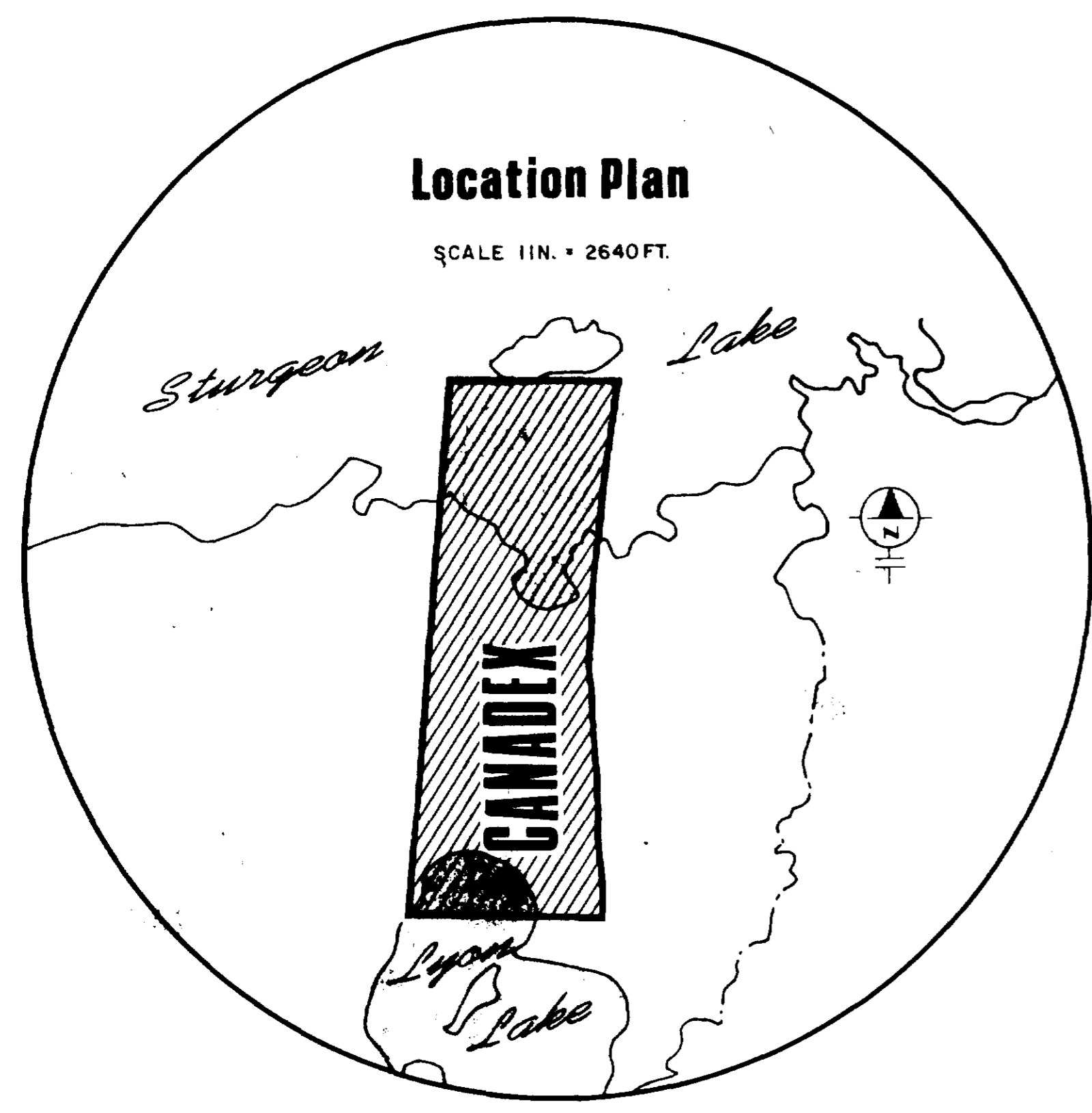
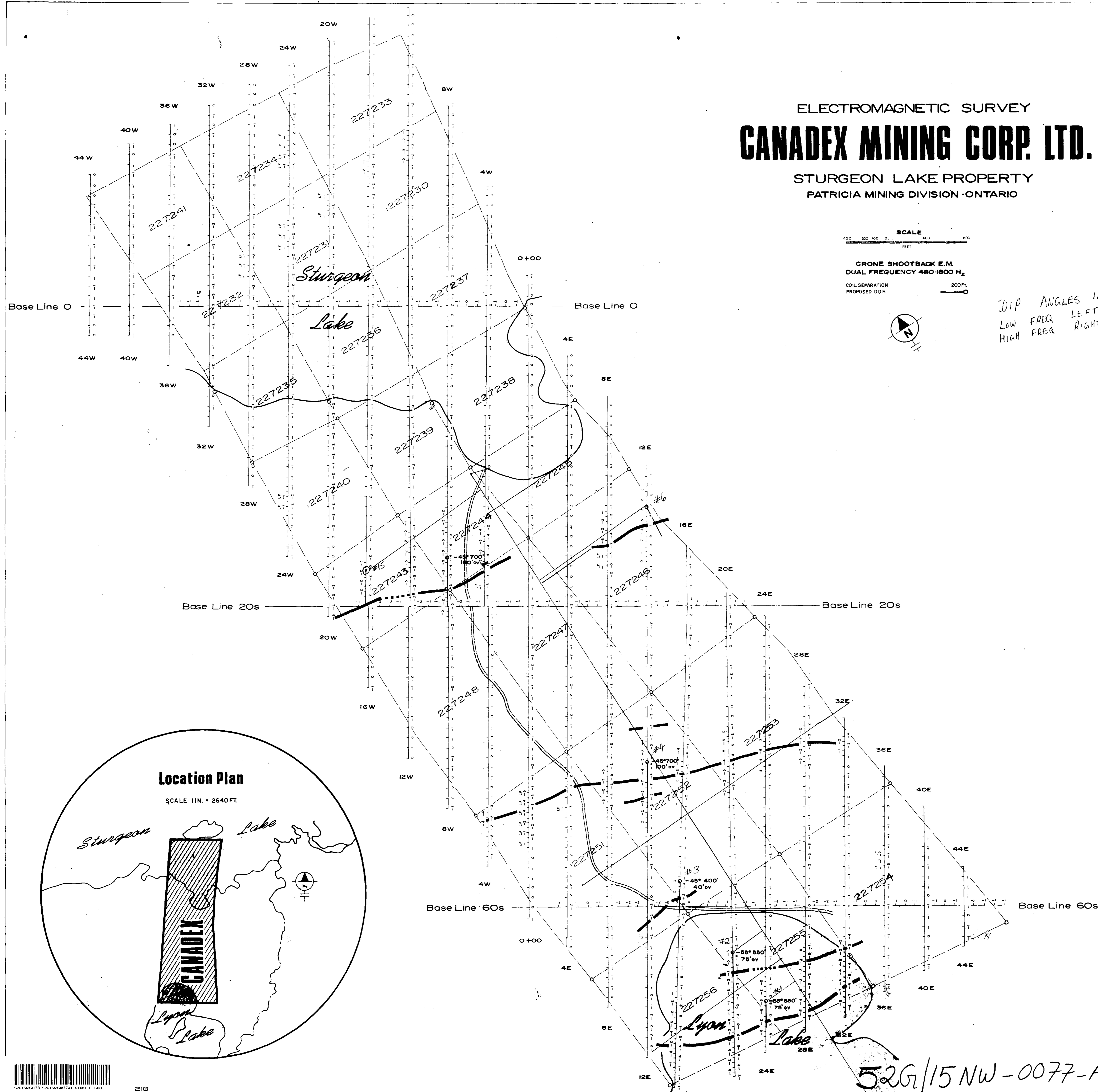
STURGEON LAKE PROPERTY
 PATRICIA MINING DIVISION - ONTARIO



CRONE SHOOTBACK E.M.
 DUAL FREQUENCY 480-1800 Hz
 COIL SEPARATION
 PROPOSED DDH



DIP ANGLES IN DEGREES
 LOW FREQ LEFT OF LINE
 HIGH FREQ RIGHT OF LINE



52G/15NW-0077-A1#2

