



52F056E0138 2.1294 ROWAN LAKE

010

CRONE VLF SURVEY
AGGRESSIVE MINING LIMITED
CAMERON LAKE, ONTARIO.

SUMMARY

A 'Crone' radem VLF survey was run over the Company claims during the month of June, 1973.

The survey was run using the transmitting station in Seattle, Washington, with dip angles, field strength measurements and topography being recorded.

Four anomalous zones were located by the survey with two showing strong conductance and two with good cross-overs but medium to weak field strength readings. All four anomalies warrant exploration.

Anomaly 'A' covers a strike length of 1700 feet between lines 8-E and 8-W with a width of 100 to 150 feet. It passes just north of the trenched area and increases in both field strength and dip angle as it goes west. This anomaly could be due to wet clay and topography but the field strength measurements are high enough to warrant investigation.

Anomaly 'B' has a strike length of 800 feet, is south of the baseline and runs between lines 4-E and 12-E. It shows medium high field strength on lines 4-E and 8-E with the field strength on line 12-E only moderate. This anomaly is a short one and with only

moderate field strength but it cannot be discounted as being caused by clay or swamp as it is partially in swamp and partially on shallow, well-drained sandy overburden.

Anomaly 'C' was located at the south end of the property over a strike distance of 1700 feet and with widths up to 300 feet. It has not been de-limited on either end. Cross-overs are strong and the field strength measurements are from double to triple the normal field strength. This anomaly would not appear to be the result of the terrain or underlying ground conditions and should be thoroughly investigated.

Anomaly 'D' is over a strike distance of 2100 feet, north of the base line and runs off the property into Rowan Lake. It is probably the continuity of anomaly 'B'. Field strengths were low to medium, increasing in the direction of the lake. As most of the anomaly is over well drained overburden, it should be investigated.

PROPERTY

The property consists of 18 contiguous claims in the Rowan Lake area of Kenora District, Ontario.

Claim numbers are K346453 to K346470 inclusive.

ACCESS

The claims lie between two large lakes, Rowan and Cameron Lakes, approximately fifty miles southeast of the City of Kenora, Ontario.

The Kenora - Fort Francis highway is only fifteen miles to the west of the property but access is still by float plane from Kenora.

GENERAL

Starting from a series of trenches in claim 346464, a base line was run across the property in a direction north 71° east or south 71° west.

Every four hundred feet along this base line, cross lines were turned off in a direction north 49° west. Since the survey lines are at an angle to the base line, lines are only 365 feet apart. Lines were cut and chained with stations marked every hundred feet.

The Crone VLF was then run over the lines using Seattle, Washington, as the power source. The dip angles and field strength measurements were taken and notes were made so a topographical map could be made of the property. The dip angles were plotted by profile on a scale of 1° equal to 1 inch, the field strength measurements were contoured on a second map and a topographical map was made to show overburden, swamp, creeks, etcetera. The survey covered some 14 line miles with 784 stations.

Various cross-overs were located during the survey which plotted to show a general northeast-southwest trend. Four anomalous zones were located as shown on the attached plan.

DESCRIPTION OF ANOMALIES

Anomaly 'A', between lines 8-E and 8-W is found north of and adjoining the base line or north of the present trenches. Field strength is moderate to high and cross-overs are strong. The cross-overs continue strong on the ends of the anomaly on lines 12-E and 12-W but the field strength measurements or metal factor has dropped off to a medium reading on these lines.

Looking at the topographical map of the property, it can be seen that this anomaly is on the southeast side of a cliff face (low ground) on lines 8-E, 4-E and 0-0 and then follows the line of a creek. Because of the topography, the anomaly could be due to a layer of wet clay overlying the rock. However, field strength measurements are much higher than normal and therefore justifies exploring this anomaly.

The anomaly is 1700 feet in length and has a width of 100 to 150 feet.

Anomaly 'B', running south of the base line between lines 4-E and 16-E is a medium strong conductor, with strong cross-overs and a medium high field strength measurement between lines 4-E and 12-E.

The anomaly, though small cannot be discounted as being caused by clay or swamp as it is partially in swamp and partially over shallow, well drained, sandy overburden.

The anomaly warrants investigation.

Anomaly 'C', near the south border of the property, is the strongest conductor located and was not completely delineated.

It has been located between lines 32-W and 16-W and is two-hundred to three-hundred feet wide. Other survey lines to the east and west would probably extend the length of this anomaly.

Cross-overs were strong on all four lines and field strength measurements went from twice background to over three times background on line 28-W.

The topographical map shows this conductor to be traversing well drained sandy overburden over most of its distance.

This anomaly warrants a thorough investigation.

Anomaly 'D' on the east boundary of the claims and north of the base line was located over a strike length of 2100 feet but a portion of this anomaly was off the claims.

Except for line 28-E, cross-overs were weak and field strength measurements were low to medium.

As most of the anomaly is over well drained overburden, it should be investigated.

Other cross-overs were located on the property but as they were localized or plainly due to the underlying wet clay, they have been discounted as not warranting further work.

CONCLUSIONS and RECOMMENDATIONS

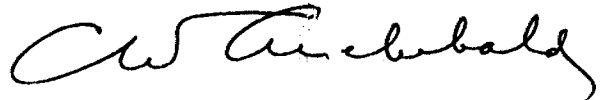
Four anomalous zones have been located which all warrant investigation.

Anomaly 'A' is parallel to, but north of the general trend of the zone of trenches, and could indicate a better mineralized area than was found in the trenched zone which would extend the north-south size of this zone.

Anomaly 'C' is the strongest and widest of the conductors and should be de-limited as it might run off the property to the east or south.

Anomalies 'B' and 'D' are comparatively small and with medium field strength but they should be investigated.

Respectfully submitted,



C. W. Archibald, B.A. Sc.,
P. Engineer of Ontario.

Toronto, Ontario.
August 24, 1973.

ASSESSMENT DETAILS

PROPERTY: Cameron Lake, Nolan Lake

MINING DIVISION: Kenora

LOCATION: Kenora District

PROVINCE: Ontario

TYPE OF SURVEY: Crone Radem VLF

LINE CUTTING MAN DAYS: 68

OPERATING MAN DAYS: 50

DATE STARTED: May 9, 1973
LINE CUTTING

EQUIVALENT 8 HR. MAN DAYS: 75

DATE COMPLETED: June 11, 1973
LINE CUTTING

CONSULTING MAN DAYS: 3

DRAUGHTING MAN DAYS: 11

DATE STARTED: June 12, 1973
SURVEY

TYPING MAN DAYS: 1

DATE COMPLETED: July 6, 1973
SURVEY

TOTAL MAN DAYS: 90
not inclusive of
line cutting

CONSULTANT:

C W Archibald, 702-100 Adelaide Street West, Toronto.

FIELD TECHNICIAN:

Frederick T. Archibald, 418 Glencairn Avenue, Toronto.

ASSISTANT OPERATOR:

Alex Mather, 386 Bedford Park Avenue, Toronto.

DRAUGHTSMEN:

Frederick T. Archibald, 418 Glencairn Avenue, Toronto.

Alan A. Archibald, 418 Glencairn Avenue, Toronto.

C. W. ARCHIBALD LIMITED

C. W. Archibald
C. W. Archibald, B.A. SC.,
P. Engineer of Ontario.

Toronto, Ontario.
August 24, 1973.

$$90 \times 7 = 630 + 68 = 698 \div (17 + 2) = \underline{36.7 \text{ days per claim}}$$



Ministry of Natural Resources

Fred W. Matthews, Supervisor, Projects Section, Ministry of Natural Resources, Whitney Block Parliament Buildings, Toronto



52F055E0138 2.1294 ROWAN LAKE

900 PROJECT SECTION

NOTIFICATION OF RECORDING OF ASSESSMENT WORK CREDITS

Date of Recording of Work ... September 12, 1973 ...
Recorded Holder ... Aggressive Mining Limited ...
702 - 100 Adelaide Street W, Toronto, Ontario ...
Township or Area ... Rowan Lake M.2580

Type of Survey and number of Assessment Days Credits per claim
GEOPHYSICAL Airborne [] Ground [x]
Magnetometer ... 40 days
Electromagnetic ... days
Radiometric ... days
GEOLOGICAL ... days
GEOCHEMICAL ... days
SECTION 86 (18) ... days

Mining Claims
(18) K346453 - K346470 mcl.

NOTICE TO RECORDED HOLDER

- [x] Survey reports and maps in duplicate must be submitted to the Projects Section, Toronto within 60 days from the date of recording of this work.
[] Reports and maps are being forwarded to Projects Section with this letter.

Handwritten signature of Mining Recorder

c.c. Aggressive Mining Limited

Telephone When replying kindly quote this file number

RECEIVED

SEP 18 1973

LANDS ADMINISTRATION BRANCH

Nov. 1

75-64



ONTARIO

Ministry of Natural Resources

Fred W. Matthews,
Supervisor, Projects Section,
Ministry of Natural Resources,
Whitney Block
Parliament Buildings, Toronto

RECEIVED

SEP 18 1973

PROJECTS SECTION

NOTIFICATION OF RECORDING
OF ASSESSMENT WORK CREDITS

Date of Recording of Work September 12, 1973
Recorded Holder Aggressive Mining Limited
..... 702 - 100 Adelaide Street W, Toronto, Ontario
(address)
Township or Area Rowan Lake M.2580

Type of Survey and number of Assessment Days Credits per claim
GEOPHYSICAL Airborne <input type="checkbox"/> Ground <input checked="" type="checkbox"/>
Magnetometer ... <u>40</u> 88 days
Electromagnetic days
Radiometric days
..... days
GEOLOGICAL days
GEOCHEMICAL days
SECTION 86 (18) days

Mining Claims
<u>(18) K346453 - K346470 incl.</u>

NOTICE TO RECORDED HOLDER

- Survey reports and maps in duplicate must be submitted to the Projects Section, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to Projects Section with this letter.

Harry [Signature]
Mining Recorder.

c.c. Aggressive Mining Limited

Telephone

When replying kindly quote this file number

RECEIVED

SEP 18 1973

LANDS ADMINISTRATION BRANCH

Nov. 1

**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT**

RECEIVED
SEP 11 1973
PROJECTS
SECTION

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 CRONE VLF
Township or Area Rowan Lake Area
Claim holder(s) Aggressive Mining Limited
702 - 100 Adelaide Street West, Toronto
Author of Report C. W. Archibald
Address 702 - 100 Adelaide Street West, Toronto
Covering Dates of Survey May 9 - July 16, 1973
(linecutting to office)
Total Miles of Line cut 18.5

*ph 362-7508
Archibald
ph 363-5054*

MINING CLAIMS TRAVERSED	
List numerically	
K (prefix)	346453 (number)
	346454
	346455
X	346456 <i>not covered</i>
	346457
	346458
	346459
	346460
X	346461 <i>1/2</i>
X	346462 <i>1/2</i>
	346463
	346464
	346465
	346466 <i>1/2</i>
	346467
	346468
	346469
	346470
<i>Circled claim not covered / No Credits</i>	
<i>(X) Marked claim 20 days each</i>	
TOTAL CLAIMS	18

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
Geophysical	40
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 27 Aug 1973 SIGNATURE: C. W. Archibald
Author of Report or Agent

PROJECTS SECTION
Res. Geol. _____ Qualifications 63A.412
Previous Surveys L.D.

Checked by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 790 Number of Readings 790
Station interval 100 foot
Line spacing 400 feet
Profile scale or Contour intervals Dip angles 1" = 50° field strength contour every
(specify for each type of survey) 50% over background

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

ELECTROMAGNETIC

Instrument Crone Radem VLF
Coil configuration _____
Coil separation _____
Accuracy Dip angle $\pm 1/2\%$ Field strength $\pm 2\%$
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 18.5 KHz Seattle, Washington
(specify V.L.F. station)
Parameters measured Dip angles and total field strength

GRAVITY

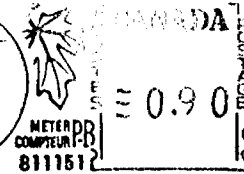
Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

MINISTRY OF NATURAL RESOURCES
OFFICE OF THE MINING RECORDER
118 CEDAR ST.
SUDBURY, ONT. P3E 1B4



Ontario

Ministry of
Natural
Resources

If not called for, please return to Ministry of Natural Resources

At: Mining Recorder's Office,
118 Cedar Street,
Sudbury, Ontario.

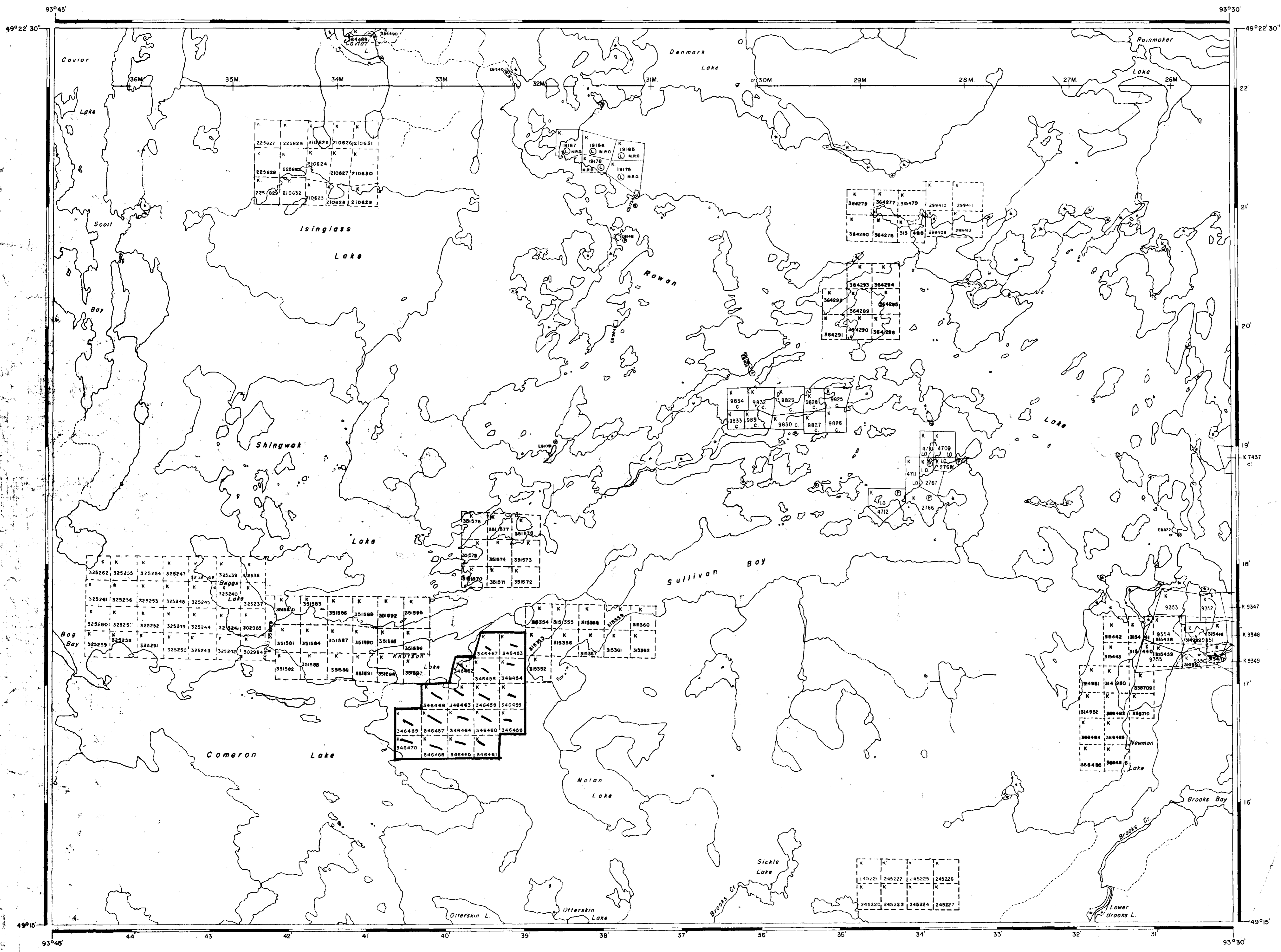
To:

Mr. Fred Matthews,
Supervisor, Projects Section,
Ministry of Natural Resources,
Whitney Block,
Queen's Park, Toronto Ontario.

RECEIVED

SEP 11 1973

LANDS ADMINISTRATION BRANCH



AREA OF

ROWAN 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 MUSKIEG	———
MINES	⋈
CANCELLED	C

NOTES

400' Surface Rights Reservation around all lakes and rivers.

- MINING LANDS -
 DATE OF ISSUE
 SEP 12 1973
 MINISTRY
 OF NATURAL RESOURCES

NATIONAL TOPOGRAPHIC SERIES 52 F 5

PLAN NO. **M.2580**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

2.12.94

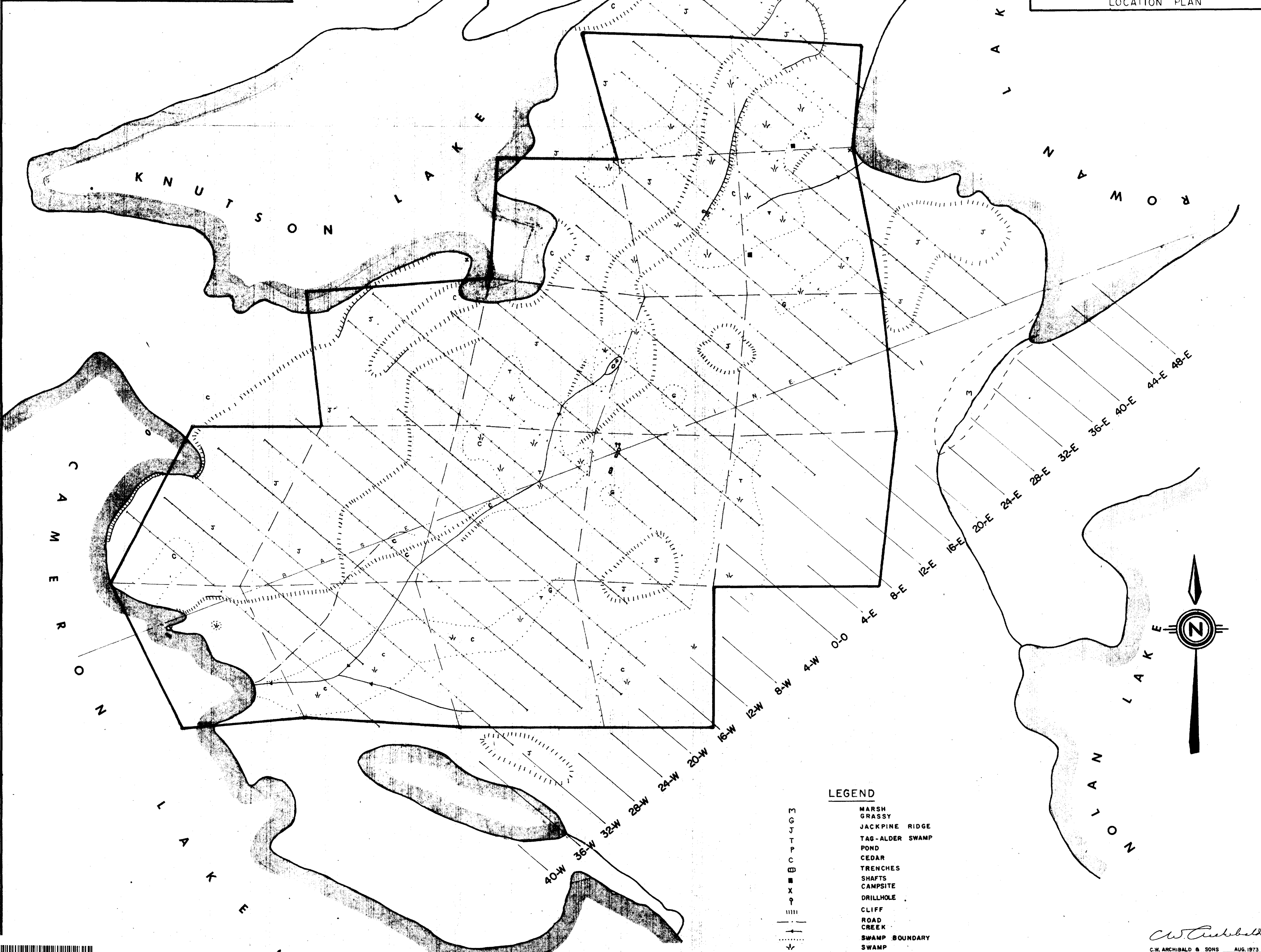
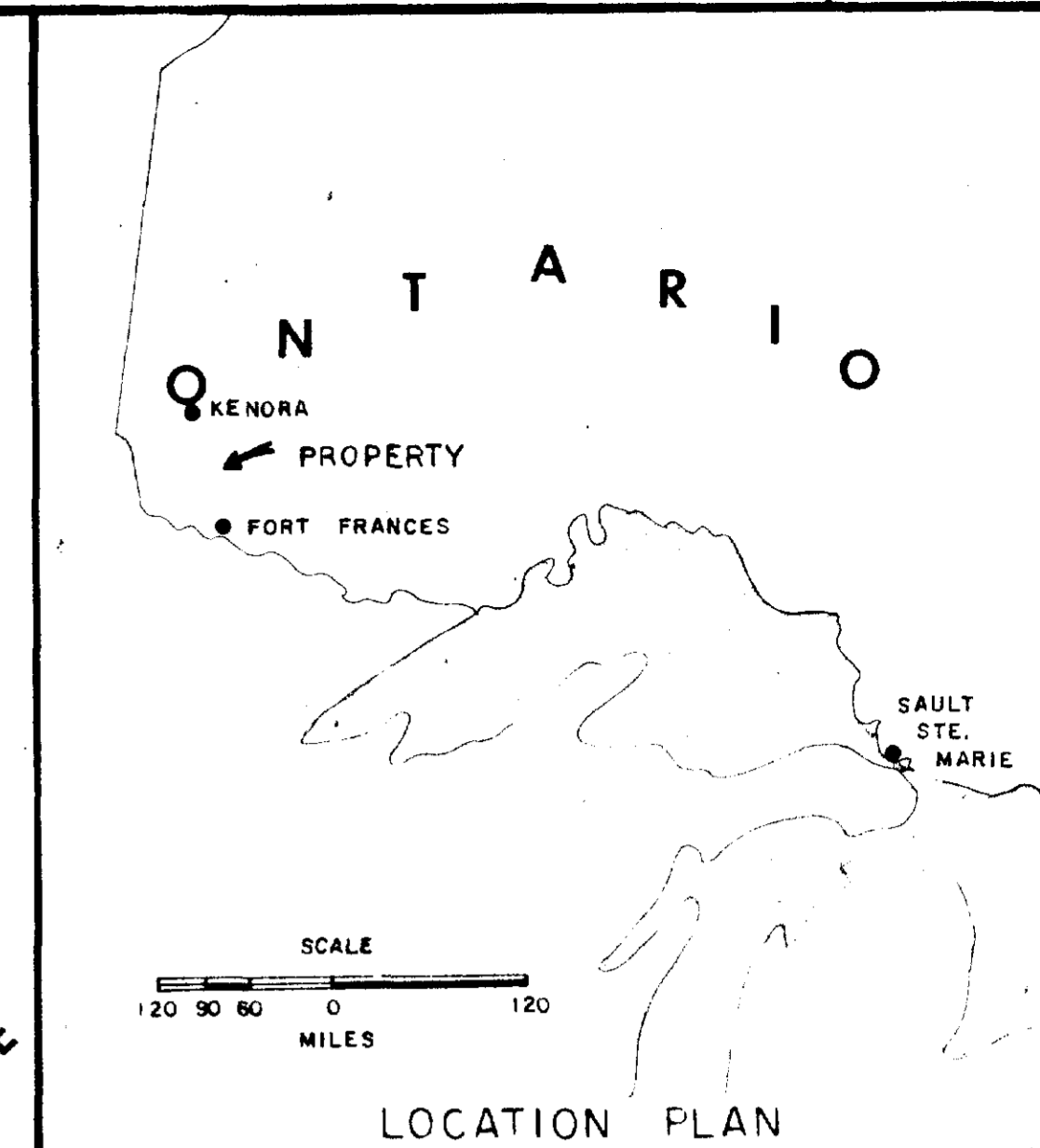
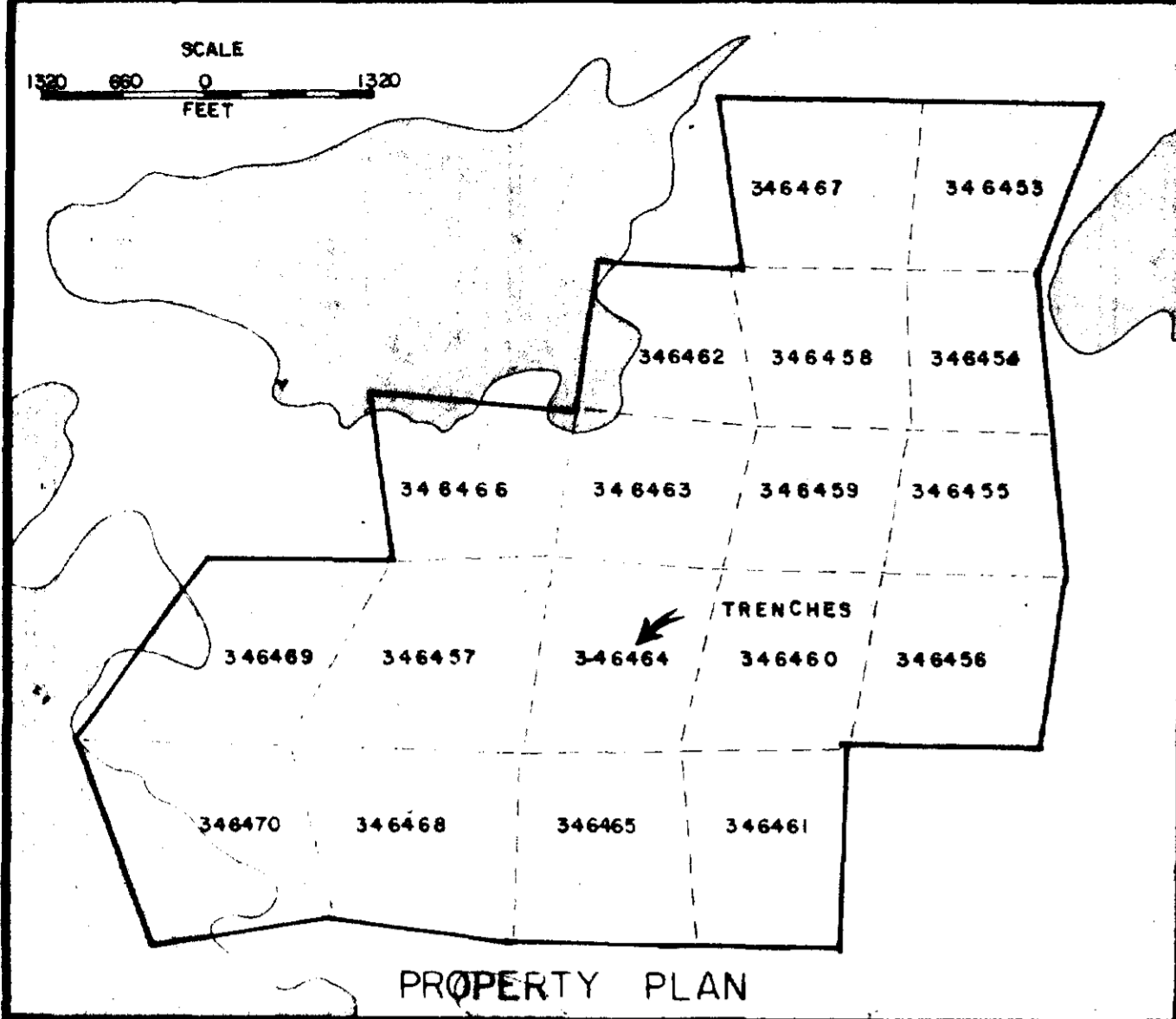
CRONE - GEOPHYSICAL SURVEY

AGGRESSIVE MINING LTD

ROWAN LAKE AREA - DISTRICT OF KENORA

TOPOGRAPHY

SCALE



- LEGEND**
- MARSH
 - GRASSY
 - JACKPINE RIDGE
 - TAG-ALDER SWAMP
 - POND
 - CEDAR
 - TRENCHES
 - SHAFTS
 - CAMPSITE
 - DRILLHOLE
 - CLIFF
 - ROAD
 - CREEK
 - SWAMP BOUNDARY
 - SWAMP



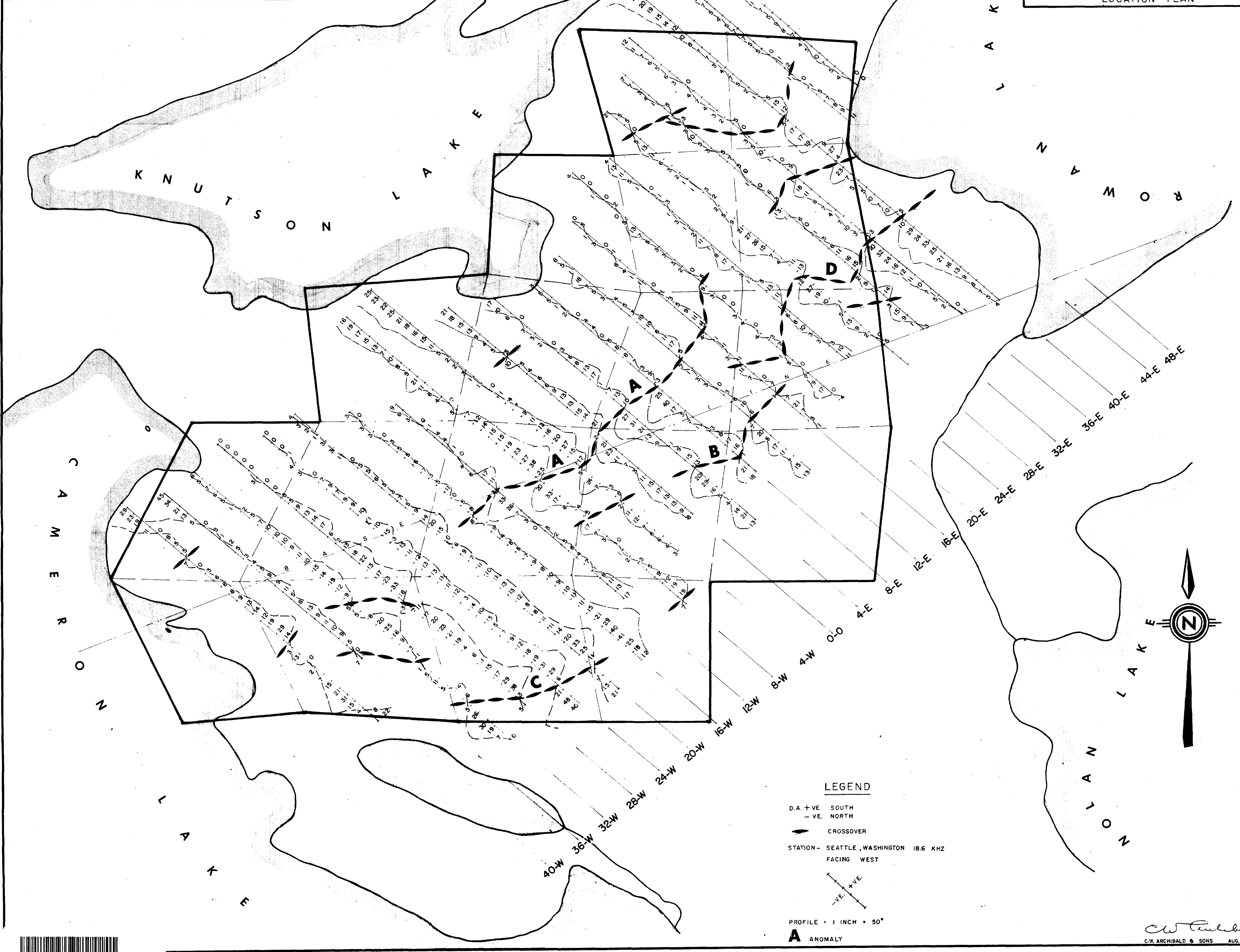
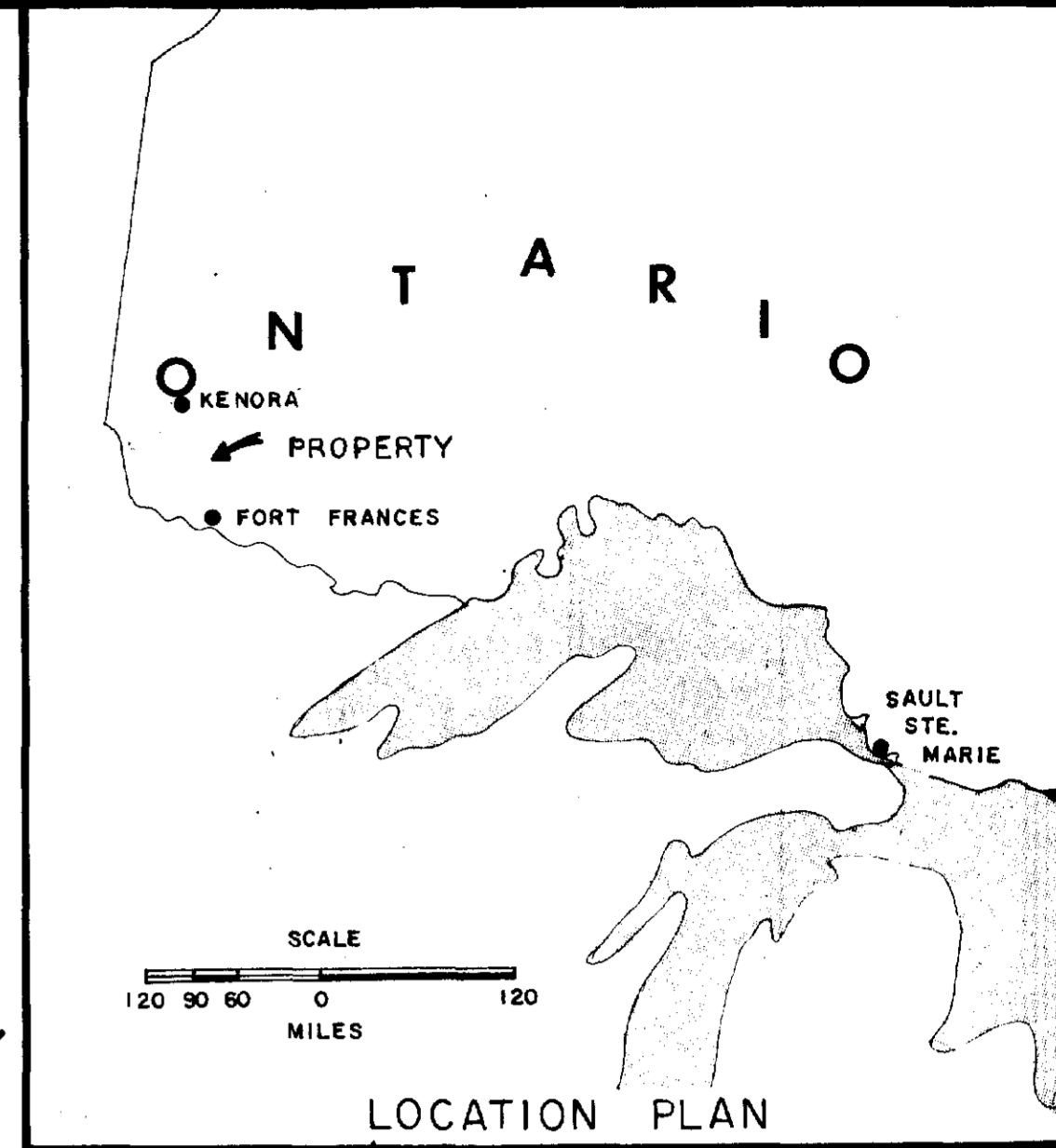
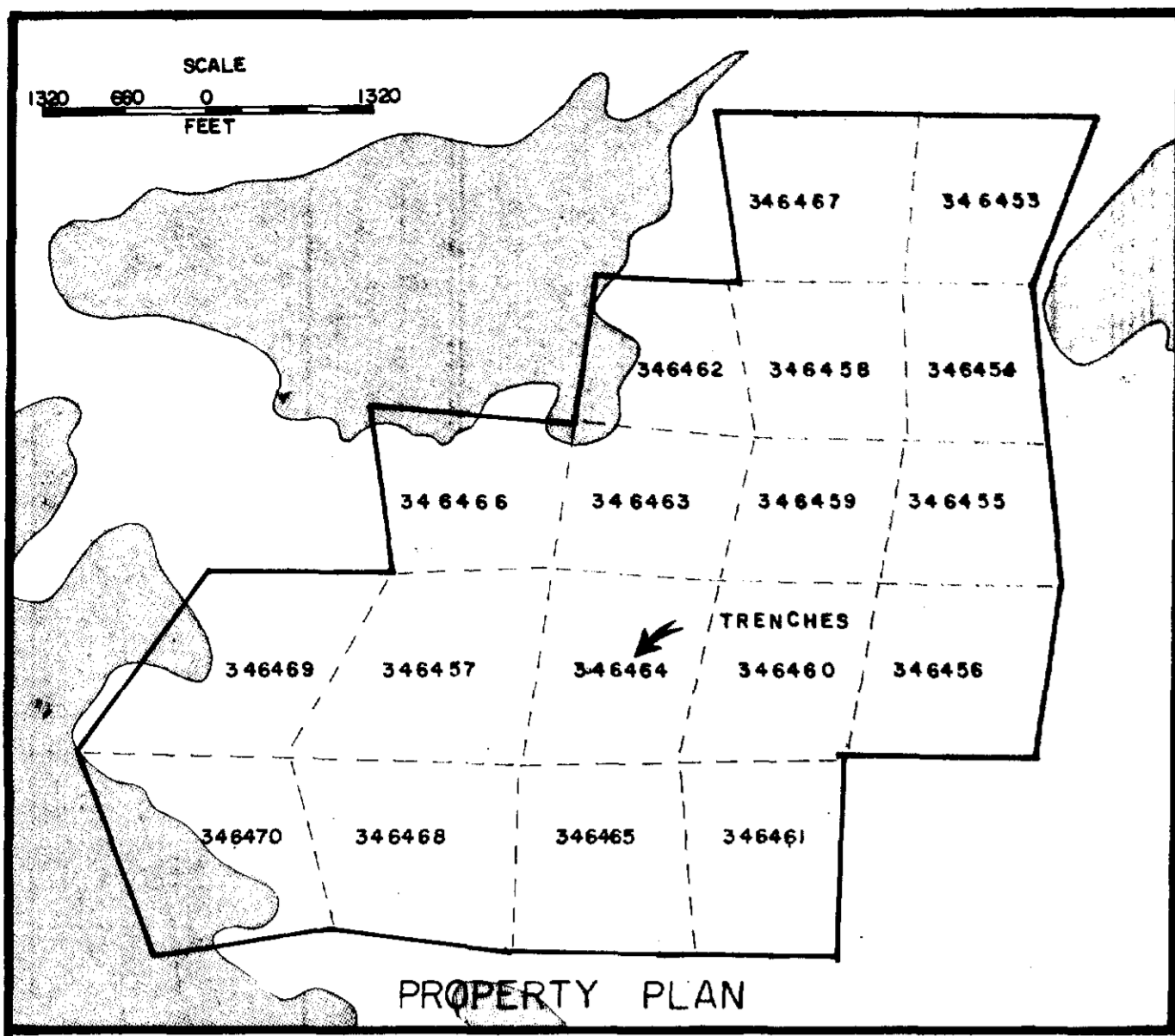
CRONE - GEOPHYSICAL SURVEY

AGGRESSIVE MINING LTD

ROWAN LAKE AREA - DISTRICT OF KENORA

DIP ANGLES

SCALE

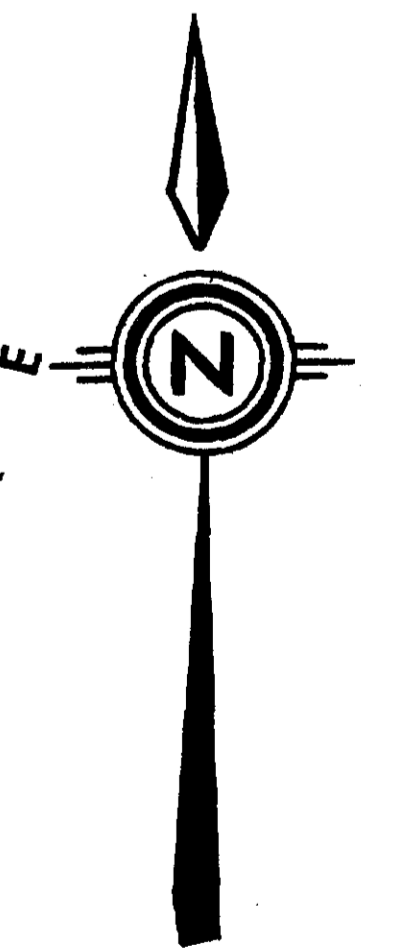


LEGEND

- D.A. + VE. SOUTH
- VE. NORTH
- CROSSOVER
- STATION - SEATTLE, WASHINGTON 18.6 KHZ
- FACING WEST
- VE +VE

PROFILE - 1 INCH = 50'

A ANOMALY

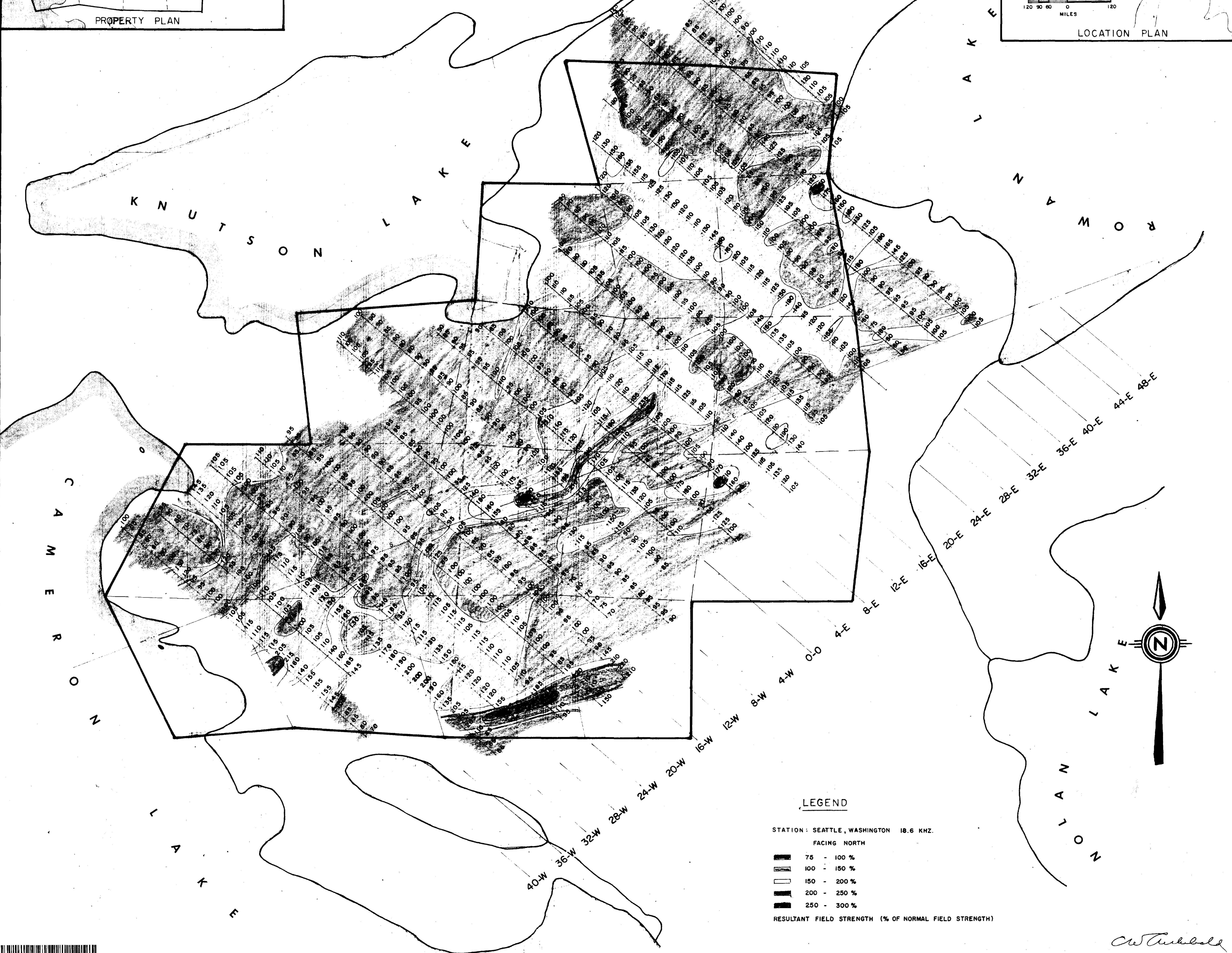
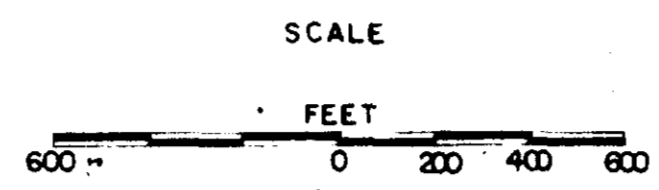
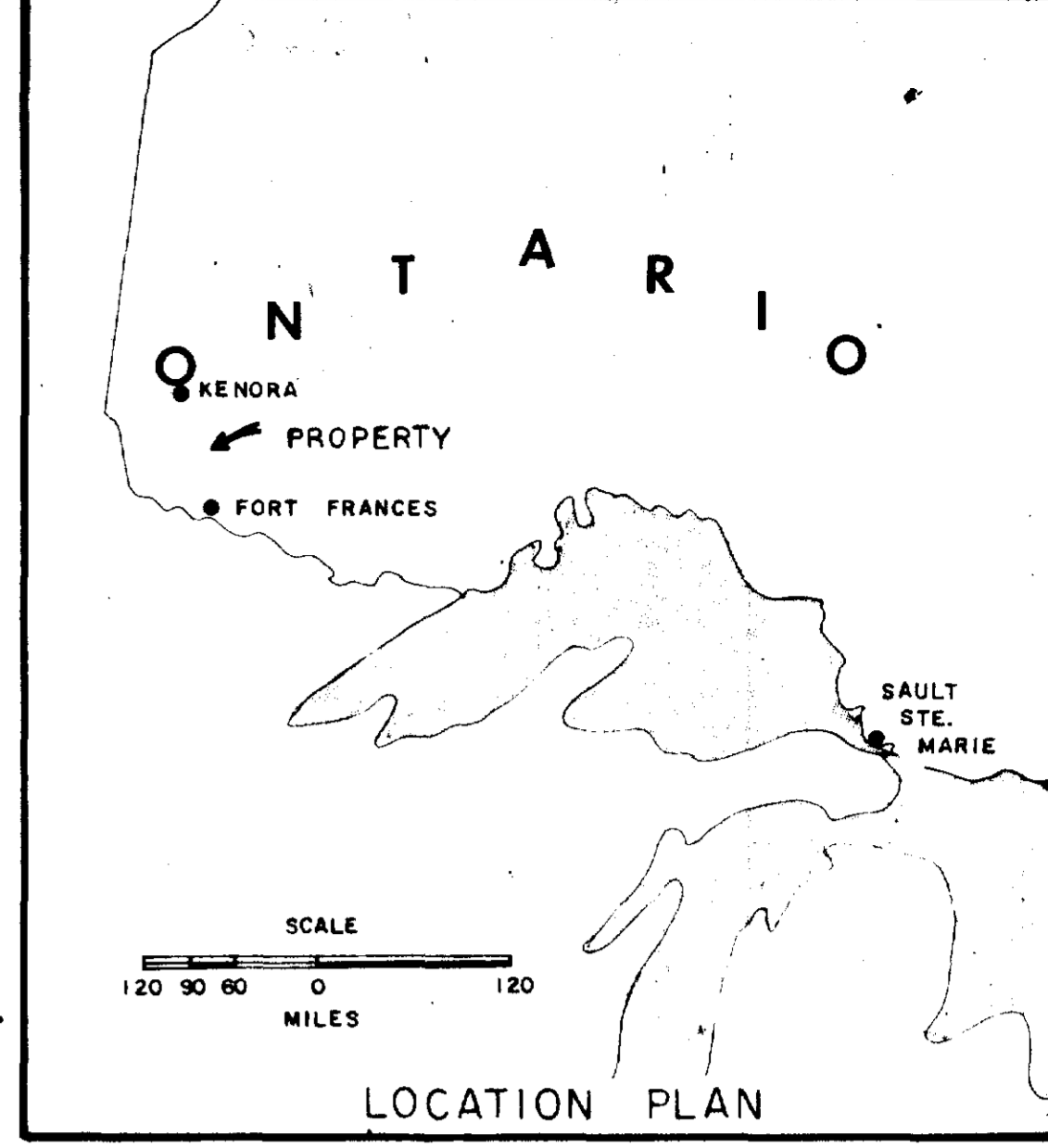
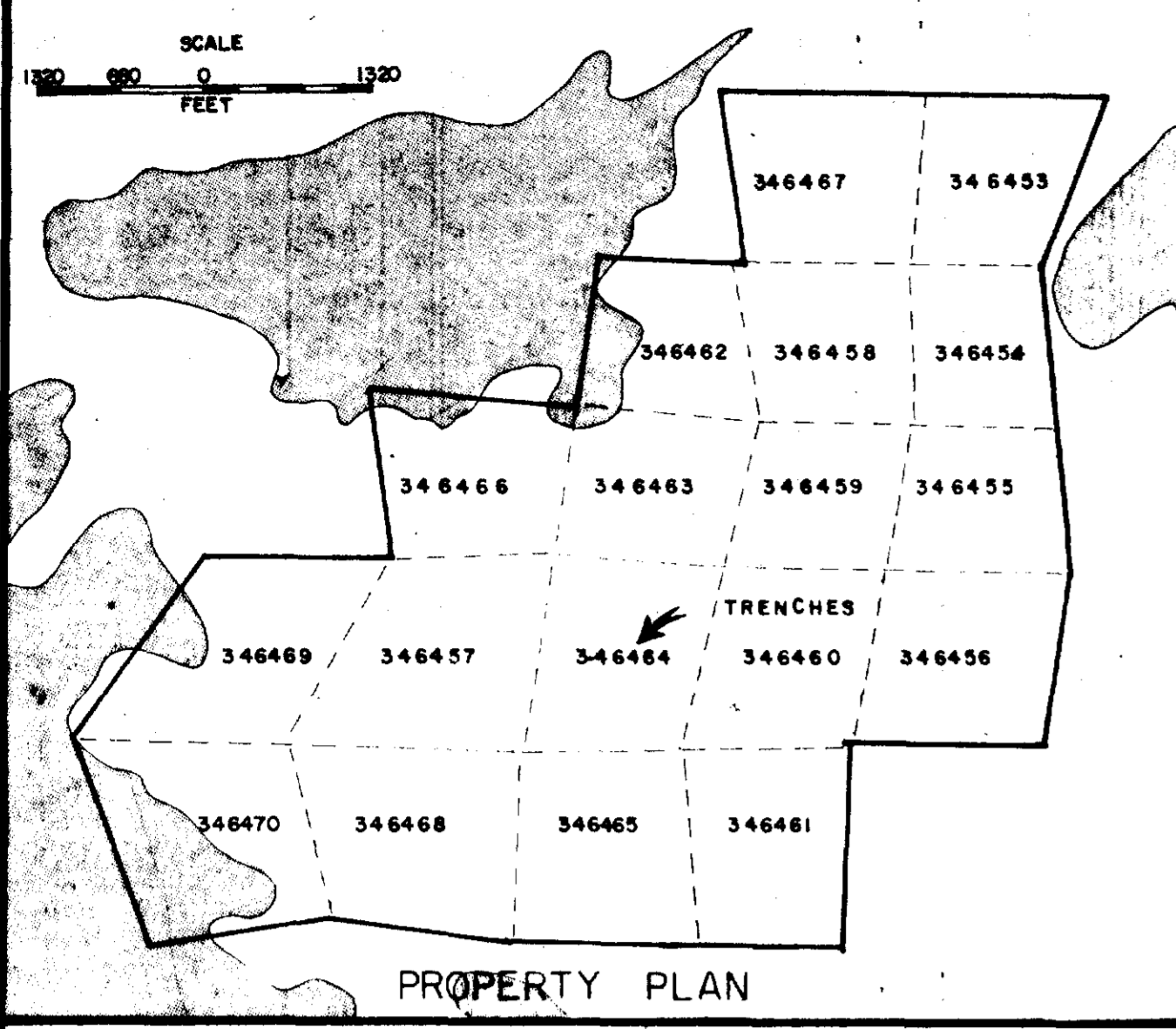


CRONE - GEOPHYSICAL SURVEY

AGGRESSIVE MINING LTD

ROWAN LAKE AREA • DISTRICT OF KENORA

FIELD STRENGTH MEASUREMENT



LEGEND

- STATION: SEATTLE, WASHINGTON 18.6 KHZ.
FACING NORTH
- 75 - 100 %
 - 100 - 150 %
 - 150 - 200 %
 - 200 - 250 %
 - 250 - 300 %
- RESULTANT FIELD STRENGTH (% OF NORMAL FIELD STRENGTH)

