



52G15NE0024 52G15NE0020A1 QUEST LAKE

010

**R E P O R T
C O V E R I N G**

MAGNETIC AND ELECTROMAGNETIC SURVEYS

Post Lake Claim Group - Kennco Option

STURGEON LAKE AREA, PATRICIA MINING DIVISION, ONTARIO

CLAIMS: 52

MAPS: 2

SURVEYS:	<ul style="list-style-type: none"> - Magnetic - Electromagnetic 	<ul style="list-style-type: none"> - Sharpe MF-2 Fluxgate - Sharpe SE-600 Vertical loop Broadside.
-----------------	---	--

PROJECTS SECTION
TORONTO

R E C E I V E D

DEC 14 1970

AM 7 8 9 10 11 12 1 2 3 4 5 6 7 PM

Post Lake. The high under Post Lake is probably due to iron formation within a sedimentary band shown on the geological map as underlying and along the northeast shore of Post Lake. The remaining claim group area is mapped as being predominately andesite.

LINECUTTING:

A 400' line interval grid was cut under contract to George Potter of Kirkland Lake, Ontario. A total of 51 miles of line were cut during the period January 15 to April 1, 1970.

GEOPHYSICAL EQUIPMENT, METHOD AND OPERATORS:

Both surveys were carried out by Garnet Flaherty of Brace-bridge, Ontario during the period June 20 to September 25, 1970.

Magnetic Survey - A Sharpe MF-2 Fluxgate magnetometer was used measuring the vertical component of the earth's magnetic field directly in gammas, with an accuracy of ± 10 gammas. Normal survey procedures of setting up base stations and correcting for drift were carried out. Total number of stations 2267.

Electromagnetic Survey - A Sharpe SE-600 EM unit was used with the vertical loop, broadside method and a Tx to Rx coil separation of 400'. The dip angle of the resultant field was measured in degrees. Frequency is 1600 Hz. Some detail work using the fixed transmitter method and the same equipment was also carried out over anomalous areas. Total number of stations 2407.

INTERPRETATION:

Five strong conductors marked A, B, C, D, & E, were detected along with several weak anomalies. Two strongly magnetic areas produced reverse anomalies.

Conductor A - Length 1600', dip approximately vertical, no magnetic correlation. A proposed test drill hole should be collared on line 98W, 16+00S drilling grid south at -45° for 400'.

Conductor B - Length 1200', dip approximately vertical, no magnetic correlation. This conductor is on strike with "A" and has the same characteristics. Proposed test drill hole to be collared on line 138W, 15+00 south, drilling grid south at -45° .


Conductor C - This conductor is strong for 1000' and continues on as a weak anomaly to the west. It occurs in a broad magnetic low caused by a strongly magnetic formation 800' to the north. A proposed test drill hole should be collared on line 158W, 24+00N and drilling grid north at -45° for 400'.

Conductor D - Length 800 open to the east, no magnetic correlation. A proposed test drill hole should be collared on line 54W 24+00 south, drilling grid south at -45° for 400'.

Conductor E - Length 3000' and may continue eastward as a weaker anomaly. This conductor has consistent magnetic correlation in the order of 200 gammas. It is weaker than the other anomalies perhaps due to heavier overburden. A proposed test drill hole should be

collared on line 74W at 17+00 north drilling grid south at -45° for 400'.

Respectfully submitted,


REGISTERED PROFESSIONAL ENGINEER
J. D. CRONE
J. Duncan Crone, B.A., P.Eng.
Geophysicist.
October 16, 1970.
PROVINCIAL ENGINEERING BOARD OF ONTARIO



SPECIAL PROVISIONS

900

ASSESSMENT WORK DETAILS

Type of Survey Magnetometer
A separate form is required for each type of survey

Chief Line Cutter or Contractor _____

Party Chief G. Flaherty Name Bracebridge, Ontario Address

Consultant J.D. Crone, Name 3607 Wolfedale Road, Address Mississauga, Ontario.

COVERING DATES Line Cutting _____
Field Geology or Geophysics June 20 to September 25, 1970
Office October 1 to October 16, 1970.

INSTRUMENT DATA Make, Model and Type Sharpe MF-2 Fluxgate
Scale Constant or Sensitivity S. Constant 20 gamma; Sensitivity + 10 gammas
Or provide copy of instrument data from Manufacturer's brochure.

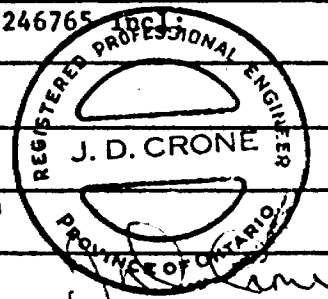
Total Number of Stations Within Claim Group 2267 Number of Miles of Line cut Within Claim Group _____

ASSESSMENT WORK CREDITS REQUESTED Geological Survey _____ Days per Claim 20
Geophysical Survey _____ Days per Claim

MINING CLAIMS TRAVERSED
PA-227640 to 227643 incl; PA-227953 to 227961 incl; PA-227963 to 227965 incl;
PA-227969 to 227984 incl; PA-243401; PA-243402; PA-243412 to 243416 incl; PA-243419
to 243422 incl; PA-243425 to 243427 incl; PA-245442; PA-246763 to 246765 incl;
PA-246770; PA-246771.

TOTAL 52 claims

DATE October 21, 1970 SIGNED J. D. Crone



Special provision credits do not apply to Radiometric Surveys.

SPECIAL PROVISION

ASSESSMENT WORK DETAILS

Type of Survey Electromagnetic
A separate form is required for each type of survey

Chief Line Cutter or Contractor C. Potter Kirkland Lake, Ontario
Name Address

Party Chief G. Flaherty Bracebridge, Ontario.
Name Address

Consultant J.D. Crone, 3607 Wolfedale, Road, Mississauga, Ontario.
Name Address

COVERING DATES Line Cutting January 15 to April 1, 1970
Name Address

Field Geology or Geophysics June 20 to September 25, 1970

Office October 1 to October 16, 1970

INSTRUMENT DATA Make, Model and Type Sharpe SE-600 Unit-Vetical Loop Broadside.

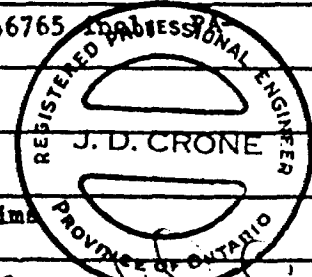
Scale Constant or Sensitivity Dip Angle of Resultant Field to 1/2 degree
Or provide copy of instrument data from Manufacturer's brochure.

Total Number of Stations Within Claim Group 2407 Number of Miles of Line cut Within Claim Group 51

ASSESSMENT WORK CREDITS REQUESTED Geological Survey _____ Days per Claim
Geophysical Survey 40 Days per Claim

MINING CLAIMS TRAVERSED

PA-227640 to 227643 incl; PA-227953 to 227961 incl; PA-227963 to 227965 incl;
PA-227969 to 227984 incl; PA-243401; PA-243402; PA-243412 to 243416 incl; PA-243419 to
243422 incl; PA-243425 to 243427 incl; PA-245442; PA-246763 to 246765
246770; PA-246771.



_____ TOTAL 52 claims

DATE October 21, 1970 SIGNED J.D. Crone

Special provision credits do not apply to Radiometric Surveys.



TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder

Mr. Leslie Scott, Mr. Gordon Houston and Mr. George Potter

Township or Area

Quest and Sixmile Lakes Areas

Type of Survey and number of Assessment Days Credits per claim

GEOPHYSICAL Airborne Ground

Magnetometer17.6.....days

Electromagnetic35.....days

Radiometricdays

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. 227640 to 43 Inclusive	
227953 to 61 Inclusive	
227963 to 65 Inclusive	
227969 to 84 Inclusive	
243401 - 02	
243412 to 16 Inclusive	
243419 to 22 Inclusive	
243425 to 27 Inclusive	
245442	
246763 to 65 Inclusive	
246770 - 71	

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;

AREA CODE -- 416
TELEPHONE -- 365-6918



WHITNEY BLOCK
QUEEN'S PARK
TORONTO 1B2, ONT.

DEPARTMENT OF MINES AND NORTHERN AFFAIRS
MINING LANDS BRANCH

April 21st, 1971.

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

Re: Mining Claims PA. 227640 et al,
Quest and Sixmile Lakes Areas,
File No. 2.213

Dear Sir:

The Geophysical (Magnetometer and Electromagnetic) assessment work credits as listed with my Notice of Intent dated April 6th, 1971, 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.

c.c.Mr. George Potter,

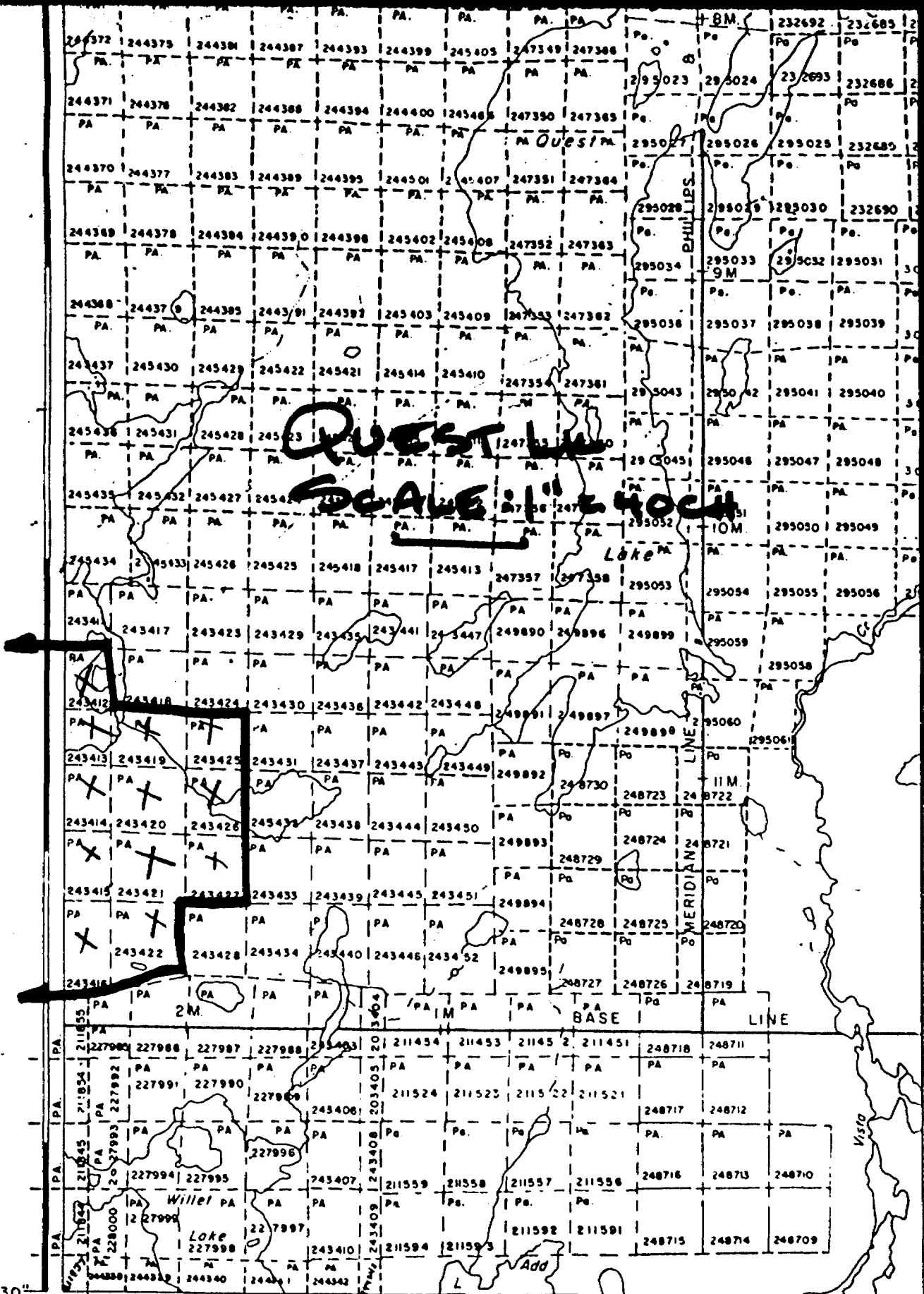
c.c.Mr. G. Houston,

c.c.Mr. Leslie Scott,

c.c.Kennco Explorations (Canada)Ltd.,

c.c.Mr. H. L. King. ✓

FWM/mr



49°52'30"

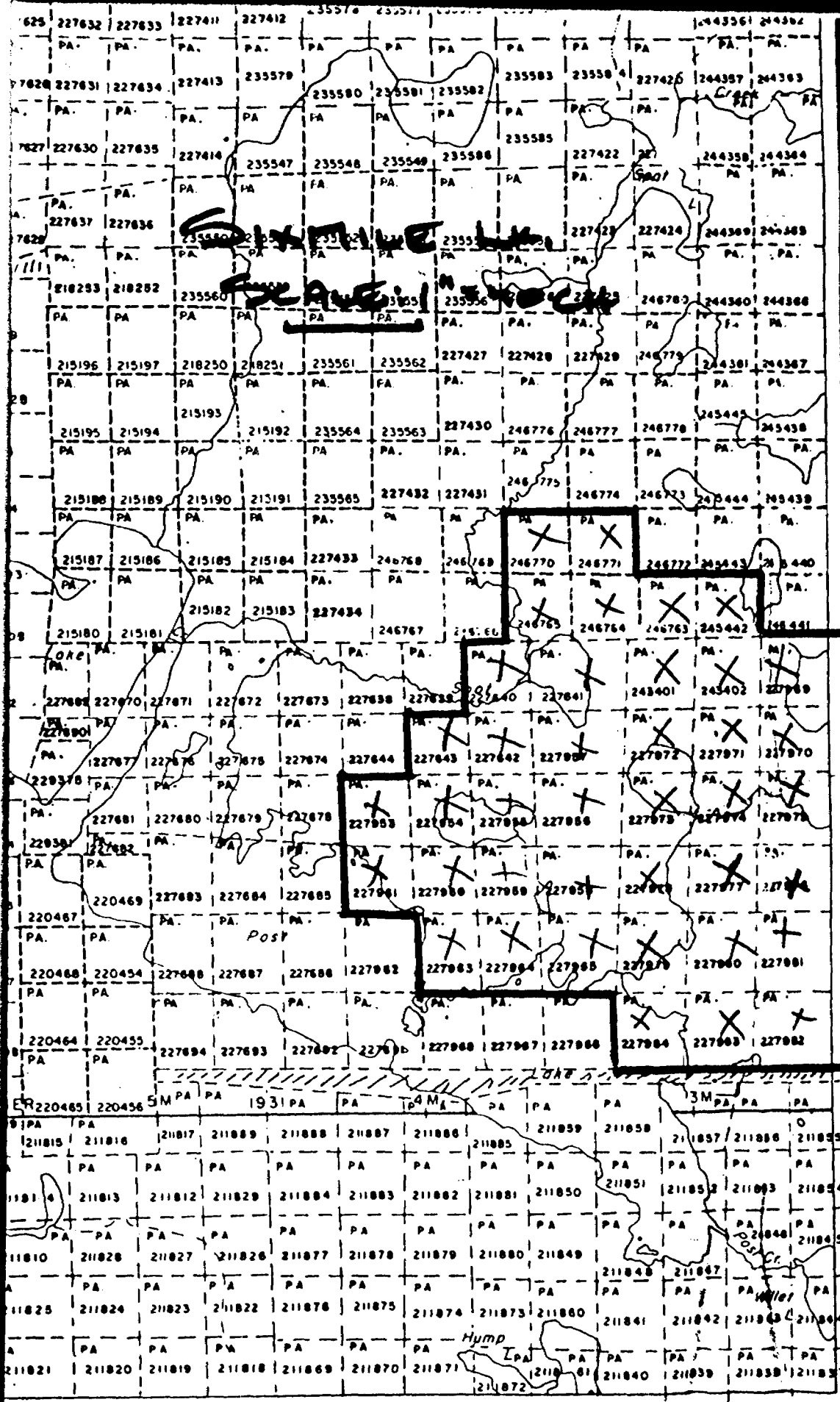
90°45'

44'

43'

42'

41'



Quest Lake Area - M.2875

400
all

NATI

f

