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REPORT

COVERING

MAGNETIC AND ELECTRONAGNETIC SURVEYS

Post Lake Claim Group - Xennoo Option

STURGEON LAKE AREA, PATRICIA MINING DIVISION, OMTARIO

CLAIMS	52		
HAPS:	2		
SURVEY81	- Magnetic - Electromagnetic	-	Shari Shari

- Sharpe MF-2 Fluxgate

Sharpe SE-600
Vertical loop
Broadside.

PROJECTS SECTION TORONTO ECEIVE R DEC 1 4 1970 71819110,11121112131415.B

MAGNETIC AND ELECTROMAGNETIC SURVEYS

POST LAKE CLAIM GROUP - KENNCO OPTION					
STURGEON	LAKE AREA,	PATRICIA	MINING	DI	VISION, ONTARIO
CLAIMS:	52				
SURVEYS:		metic ectromagne	tic	-	Sharpe MF-2 Fluxgate Sharpe SE-600 Vertical Loop Broadside
MAPS:	2				

LOCATION AND ACCESS:

The claim group is situated on the northeast shore of Post Lake. Access is via bush plane or the winter road from the Mattabi Mine on Abitibi block #7, or via bush road south from Sturgeon Lake. The claims are a portion of a large contiguous group extending from Post Lake to Quest Lake. The claim numbers covered by the surveys and this report are as follows: 227640 to 227643, 227953 to 227959, 227960, 227961, 227963, 227964, 227965, 227969 to 227984, 243401, 243402, 243412 to 243416, 243419 to 243422, 243425 to 243427, 244442, 246763 to 246765 and 246770, 246771. Total number of claims 52.

PREVIOUS WORK AND REPORTS:

Maps

Ontario	Department	of Mines	Bell Lake Sheet	#1117G
Ontario	Department	of Mines	Sioux Lookout	#2169

The government airborne magnetic map has a strong magnetic high underlying Post Lake and another magnetic high 1 1/2 miles northwest of 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 <u>Garnet Flaherty of Brace-</u> Lridge, Ontario during the period June 20 to September 25, 1970.

<u>Magnetic Survey</u> - A <u>Sharpe MF-2</u> 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 <u>2267</u>.

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 anous lous 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.

<u>Conductor A</u> - 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'.

<u>Conductor B</u> - 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° .

<u>Conductor C</u> - 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'.

<u>Conductor D</u> - 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'.

<u>Conductor E</u> - Length 3000' and may continue eastword 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 4001. 4.33

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Respectfully submitted,

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ASSESSMENT WORK DETAILS

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Chief Line Cutter or (a service to the to the service to	
Party Chief	G. Flaherty	Bracebr	Address idge, Ontario
Consultant	J.D. Crone,	3607 Wolfedale Road,	Address Minsissauga, Ontario.
COVERING DATES			Address
	Field Geology or Geophys	June 20 to Sep	tember 25, 1970
	OfficeOctol	ber 1 to October 16, 19	70.
INSTRUMENT DATA	Make, Model and Type	Sharps MF-2 Fluxgat	:e `
	Scale Constant or Sensiti	S. Constant 20 gam	ma; Sensitivity <u>+</u> 10 gammas
	Or provide copy of instru	ment data from Manufacturer's	brochure.
ASSESSMENT WORK	CREDITS REQUESTED	Geological Survey	Days per Claim
ASSESSMENT WORK	CREDITS REQUESTED		Days per Claim 20 Days per Claim
MINING CLAIMS TR	AVERSED		20 Days per Claim
MINING CLAIMS TR PA-227640 to 223	AVERSED 7643 incl; PA-227953	Geophysical Survey	20 Days per Claim
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227	AVERSED 7643 incl; PA-227953 7984 incl; PA-243401	Geophysical Survey	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 incl;
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227 to 243422 ipcl;	AVERSED 7643 incl; PA-227953 7984 incl; PA-243401	Geophysical Survey to 227961 incl; PA-2 ; PA-243402; PA-24341	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 TOFESTOWAL PROFESTIONAL
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227 to 243422 ipcl;	AVERSED 7643 incl; PA-227953 7984 incl; PA-243401 PA-243425 to 243427	Geophysical Survey to 227961 incl; PA-2 ; PA-243402; PA-24341	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 IDCL:
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227 to 243422 ipcl;	AVERSED 7643 incl; PA-227953 7984 incl; PA-243401 PA-243425 to 243427	Geophysical Survey to 227961 incl; PA-2 ; PA-243402; PA-24341	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 incl; QROVESTIONAL STATION ALL DAYS DESCRIPTION ALL DAYS DES
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227 to 243422 ipcl;	AVERSED 7643 incl; PA-227953 7984 incl; PA-243401 PA-243425 to 243427 246771.	Geophysical Survey_ to 227961 incl; PA-2 ; PA-243402; PA-24341 incl; PA-245442; PA	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 incl; QROVESTIONAL STATION ALL DAYS DESCRIPTION ALL DAYS DES
MINING CLAIMS TR PA-227640 to 227 PA-227969 to 227 to 243422 ipcl; PA-246770; PA-2	AVERSED 2643 incl; PA-227953 2984 incl; PA-243401 PA-243425 to 243427 246771. Cen II, 1976	Geophysical Survey_ to 227961 incl; PA-2 ; PA-243402; PA-24341 incl; PA-245442; PA	20 Days per Claim 27963 to 227965 incl; 2 to 243416 incl/ PA-243419 -246763 to 246765 TDE 500MA/ PROFESSIONAL ST S2 claims S2 claims Autor of on the set Autor of on th

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	ASSESSMENT WORK DETAILS
'ype of Survey	Electromagnetic A separate form is required for each type of survey
bief Line Cutter or C	
Party Chief	Nome Address
Consultant J.D.	Name Address
COVERING DATES	Name Address Address
	Field Geology or Geophysics June 20 to September 25, 1970
	Office October 1 to October16, 1970
NSTRUMENT DATA	Make, Model and Type Sharpe SE-600 Unit-Vetical Loop Broadside.
	Scale Constant or Sensitivity Dip Angle of Resuttant Field to 1/2 degree
	Or provide copy of instrument data from Manufacturer's brochure.
ASSESSMENT WORK (CREDITS REQUESTED Geological SurveyDays per Claim
	Geophysical Survey40 Days per Claim
	643 incl; PA-227953 to 227961 incl; PA-227963 to 227965 incl;
	984 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 that is story
246770; PA-2467	J. D. CRONE
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DATE_Octo-	ben 21,1970 SIGNED Hartoning
•	Special provision credits do not apply to Radiometric Surveys.

PROJECTS SECTION DEPARTMENT OF MINES	AND NORTHERN AFFAIRS FILE: 2.213
TECHNICAL ASSESS	MENT WORK CREDITS
	t, Mr. Gordon Houston and Mr. George Pott
Township or Area Quest and Sixm	ile Lakes Areas
Type of Survey and number of Assessment Days Credits per claim	Mining Claims
GEOPHYSICAL Airborne Ground X	
Magnetometer17.,6days	PA. 227640 to 43 Inclusive
35 Electromagneticdays	227953 to 61 Inclusive
Radiometricdays	227963 to 65 Inclusive
	227969 to 84 Inclusive
GEOLOGICALdays	243401 - 02
GEOCHEMICALdays	243412 to 16 Inclusive
SECTION 84 (14)days	243419 to 22 Inclusive
Special Provision X Man days	243425 to 27 Inclusive
	245442
NOTICE OF INTENT TO BE ISSUED	246763 to 65 Inclusive
Credits have been reduced because of partial coverage of claims.	246770 - 71
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:	
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AREA CODE - 416 TELEPHONE -- 365-6918



WHITNEY BLOCK. QUEEH'S PARK TORONTO 182, ONT.

DEPARTMENT OF MINES AND NORTHERN AFFAIRS

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. march

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

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PA ++372 1244375 **FP**o 245405 247348 1 244387 244393 244399 'AT FX ST. 23/2093 1 232686 244371 244376 244362 1244368 244394 1244400 1247350 247365 [Pe. 1245465 PA PA T PA. t PA ÷ PA. 295027 295026 NOUESIM 24+370 1244377 244383 1244389 1244501 12 45407 1244395 247351 77 77 PAT FA I 75 PA' ÞE 1225030 232690 293028 244349 244378 244394 24439 0 244398 (** 245402 245408 247352 H 247343 "|| "PA" || 1 m PA PA + ==== T, PA PA. 295033 29/5032 1295031 295034 1 PA. 1 FA. Pe. Pa 24436.8 24437 (0 244395 2443) 1 244397 245403 245409 245409 247302 PA. 295036 | 295037 295038 295039 T PA; PA T 74." O 1 24 24 2437 245 430 1245 429 245422 245421 245414 243410 247361 24735 1 2002/05 1 295041 1 295040 245428 LO J PA. 295046 1295047 29504 PĀ 245 132 243 427 1 245 4 PA PA, 10M 1 295050 1 295049 M. - -4 M. à k e 45433 245426 245425 245418 245417 245413 1(297 295053 1 295055 295056 295054 PA PA <u>ه م</u> ا 2434 135 24 441 243417 3423 243429 24 5447 · TPA ta -I PA 24 295058 43424 1243430 1243436 95060 - 8 1249 PA 129506 Po 2434 243449 249892 434 243441 PA ΉM. 24/0730 248723 8722 Ψ_{Po} PA 243438 2434 243444 243430 248724 24 8721 P A PA TPA PA Ιž 248729 I. α PA 1 Pa **W** õ Po 243421 243439 $\widetilde{\alpha}$ PA PA | PA 248728 248725 248720 P PA 243440 243446 2434 52 243422 243428 ø 248727 248726 248719 1 (PA **PA** 1 PA T, PA हो TPa PA PA PAIM PA 2 M. BASE I 1 LINE N1227980 227988 227987 2) Si 211434 227988 PATT PAT 2 | PA | 227 2 ~ | nTPA PA 227990 22799 211524 211522 2115 22 211521 1 2279691 12434067 81 248712 248717 i-D PA Pe. DA <u>Пн</u>. PA PA. PA PA Ň 10 10 7. N|211559 12H358 196. 227996 N 227994 227995 \leq 248716 243407 248713 248710 1211557 211556 TPAS Willer PA 0 24 PA | Pa. Pe. PA Т 12 k 8 12 27999 122 7997 1 #1 FEIISSE LEIISSE F Loke 0 248715 248714 246709 12434101 NI 211594 121159 NADO - 14 ------1244941 244542 L 49°52'30"---44' 43 42 41 90°45'



