.4158

sherritt

52J02NE0054 52J02NE0059 BECKINGTON LAKE

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SEP 2 8 1981

MINING LANDS SECTION

REPORT ON THE DAVIDSON-CARR PROPERTY

Project Code 1256

N.T.S. 52-J-2-E M-1740

Claims: K 437070 to 437085 inclusive
436994 to 436996 inclusive
487304 to 487307 inclusive

Date: September 21, 1981

Author: D. G. Clement

sherritt

DAVIDSON-CARR PROPERTY

Project Code 1256 N.T.S. 52-J-2-E M-1740

Claims: K 437079 to 437085 inclusive
436994 to 436996 inclusive
487304 to 487307 inclusive

INTRODUCTION

The property consist of 16 mining claims located in the Beckington Lake area approximately 9.6 miles South East of Savant Townsite. During the period of March 1981 a grid was completed on the property, followed by a horizontal electromagnetic and vertical magnetometer survey.

LOCATION AND ACCESS

The property is approximately 9.6 miles south-east of S vant Lake Townsite. Access can be made by boat and plane in the summer and skidoo in the winter.

OWNER

The property is held by Stan Johnson, 18 Front Street, Sioux Lookout, Ontario.

GENERAL GEOLOGY (N.T.S. 52-J-2-E)
(O.G.S. Map-2420) (Vincent Scime - Geologist, Sherritt Gordon Mines Limited)

The general geology is archean metamorphosed mafic meta-volcanick intrusive rocks, somewhat foliated with Au bearing structures of mineralized quartz veins. The veins of the Powell Occurrence (claims 487304 to 307 inclusive) lie roughly within the NE to NNE foliation, while the Davidson-Carr has a N.W. trend. Sulphide mineralization associated with the quartz veins consist mainly of pyrite and chalcopyrite with minor pyrrhotite and tetrahedrite.

...2

PRESENT WORK

(a) Linecutting: the linecutting was completed by Alex Kozy, Ignace, Ontario. The grid consists of 5.25 miles of E. W. Baselines at 25°true at 3960' and 1884' intervals.

Total Baseline	5.25 miles
Total Picketline	25.75 miles
Total	31 miles

(b) Geophysical Surveys: The magnetometer survey was completed with a Scintrex Vertical Fluxgate Magnetometer MF-2. Readings were taken at 50' intervals. Base stations were located on the baseline and looped into the cross-section lines. Maps are plotted at Horizontal scale 1" = 20%.

Electromagnetic: The electromagnetic survey was completed with an Apex Max-Min II using an "in-line" horizontal mode configuration. Two frequencies were employed during the survey, 888 and 3555 Hz., coil separation were 400' and readings taken at 100 foot intervals. Maps are plotted at horizontal scale of 1" = 20%.

September 21, 1981

Donald G. Clement
Sherritt Gordon Mines Limited
Dryden Operation

TECHNICAL DATA STATEMENT

Claims: K 437079
437080
437081
437082
437083

K 436994
436995
436996

K 437084
437085

K 437133
437134

K 487304
487305
487306
487307

Two geophysical surveys were completed over the 16 claim group. A proton magnetometer survey and a max/min survey (880 cps and 3555 cps). The area covers approximately 1 square mile on the north-east arm of Sturgeon Lake. The property covers two old mining sites, the Davidson-Carr on the east side of the lake and the Powell Property on the west side (Squaw Lake Map 2420). The purpose of the present investigation was to delineate any possible structural trends that might re-enforce further prospecting.

The magnetics in the area of the claims generally indicate a north-south trend to the magnetics. The magnetics may broadly be divided into 3 main areas, a central area over the lake of lower magnetics (background 400-600 gammas and 1000 to 1200 feet wide), flanked by higher magnetics to the east and west, ranging from 600-700 gammas to magnetic highs of 1500 gammas to several thousand gammas.

The east magnetic zone is about 1200 feet wide and expresses itself in a series of parallel to subparallel lensoid anomalies from several 100 feet long to over 1000 feet long, ranging in intensities from 1000 gammas to several thousand gammas.

The trends appear to represent localized concentrations of higher magnetite in the more basic volcanic units, these trends are in turn paralleled by lower magnetic areas which represent the more felsic volcanics. The broken, disjointed nature of the trends appears to indicate a series of N.W.-S.E. faults.

The magnetics on the west of the claim group appear to be somewhat less intense, but take the same general pattern as those to the east side of the claims except that the magnetic highs diminish in intensity toward the north and have little magnetic expression under the lake.

...2

The central area of magnetics beneath the lake lack any intense expression as compared with those flanking it to the east and west. This may in part be caused by a low magnetic content of a diorite intrusive which on the geology map is shown to be striking into that area from the south.

Electromagnetic (Max-Min Survey)

The max-min survey does not indicate any conductive zones of interest.

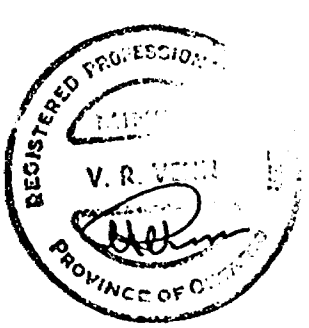
In the area between S 524 N; 550 E and 516 N; 750 E several in-phase readings and zero out-of-phase probably express the high topography along the lake shore.

MINERALIZATION

Davidson-Carr In the area of the mine sight (S 516 N - 750 E) a break in the magnetic trend may indicate a Northwesterly trending fault, that should be examined further. The EM anomaly associated with it could in this instance not be caused entirely by the topography. It should be examined further.

Powell Property There is little if any geophysical evidence that the mineralized zone can be detected. Detailed geology and geophysics (100' 7+ E.M. cable and closer magnetometer readings) would do much to improve this situation.

September 21, 1981



V. R. Venn

900

File

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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SEP 2 8 1981
MINING LANDS 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(s) ELECTROMAGNETOMETER & MAGNETOMETER
Township or Area BECKINGTON LAKE (M-1740)
Claim Holder(s) STAN JOHNSON

Survey Company SHERRITT GORDON MINES LIMITED
Author of Report V. VENN; D. CLEMENT
Address of Author Box 723, Dryden, Ontario P8N 2Z4
Covering Dates of Survey July & August 1981
(linecutting to office)
Total Miles of Line Cut

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	–Electromagnetic	20
	–Magnetometer	40
	–Radiometric	
ENTER 20 days for each additional survey using same grid.	–Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Sept 21/81 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

P	437079	EM Mag
P	437080	
P	437081	
P	437082	
P	437083	
P	436994	
P	436995	
P	436996	
P	437084	
P	437085	
P	437133	
P	437134	
P	487304	
P	487305	
P	487306	
P	487307	

If space insufficient, attach list

TOTAL CLAIMS 16

837 (5/79)

Fog Lake & Manion T

BECKINGTON LAKE
M-1740
1"=40 chains

1"
1" = 40 CHAINS.

Squaw Lake Area - M.1904

502903

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations Magnetometer 1552 EM 896 Number of Readings Mag. 1552 EM 1792

Station interval 100' Line spacing 400'

Profile scale 1" = 20%

Contour interval 100 γ

MAGNETIC

Instrument Scintrex Fluxgate MF-2

Accuracy – Scale constant 10 gamma on 1000 scale

Diurnal correction method Scintrex MB/2 Base station plus looping between adjusted baselines

Base Station check-in interval (hours)

Base Station location and value Base line

ELECTROMAGNETIC

Instrument Apex Max-Min II

Coil configuration Horizontal Loop

Coil separation 400 ft.

Accuracy 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 888 and 3555 Hz. (specify V.L.F. station)

Parameters measured In-phase & Quadrature

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File
2.4158

Recorded Holder
STAN JOHNSON

Township or Area
Beckington Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 20 days	Pa 437079-85 inclusive Pa 436994-96 inclusive Pa 437133-34 inclusive
Magnetometer 40 days	
Radiometric ____ days	
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

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; Section 86(18)-60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File
2.4158

Recorded Holder
ARTHUR MOUSSEAU

Township or Area
Beckington Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 20 days	Pa. 487304-07 inclusive
Magnetometer 40 days	
Radiometric ____ days	
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on

Ontario Ministry of Natural Resources

Your file: 52 J/2 NE (49)

Our file: 2.4158

August 26, 1982

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P. O. Box 669
Sioux Lookout, Ontario
P0V 2T0

Dear Mr. Hanson:

Re: Geophysical (Magnetometer and Electromagnetic) Survey on Mining Claims Pa 487304-07 inclusive, in the area of Beckington Lake

The Geophysical (Magnetometer and Electromagnetic) Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E. F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-1316

Ministry of Natural Resources
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SEP 0 2 1982
RESIDENT GEOLOGIST
SIOUX LOOKOUT

/em

Encl.

cc: Mr. Arthur Mousseau
Sioux Lookout, Ontario

cc: Mr. Donald G. Clement
Dryden, Ontario

cc: ✓Resident Geologist
Sioux Lookout, Ontario

SHERRITT GORDON MINES LIMITED

AREA–STURGEON LAKE
GROUP–DAVIDSON–CARR
MAGNETOMETER SURVEY
N.T.S. 52-J-2
PLAN SCALE 1" = 200'
CONTOUR INTERVAL 100 ɣ
OPERATOR: D. BREEZE
DRAWN BY: T.B. NICKEL
AUGUST 1981

V. R. VINN

2.4158
duplicate

LEGEND
CLAIM LINE
■ CLAIM POST
SHORELINE

52J/02NE-0059,#1

52J/02NE-0059,#1

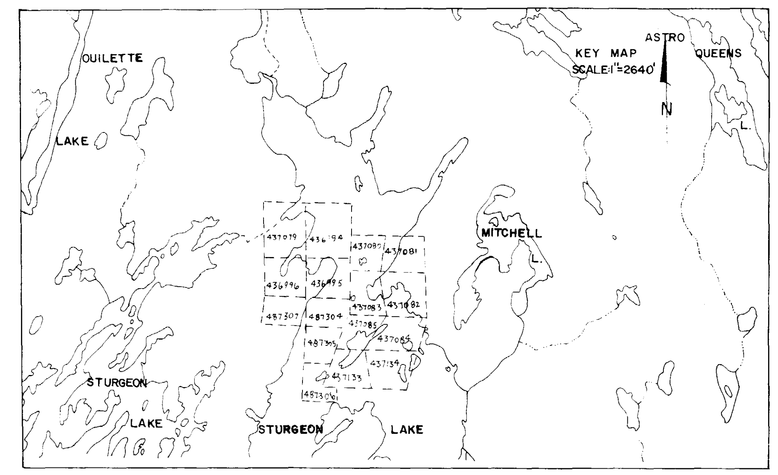
200

532 N 528N 524N 520N 516N 512N 508N 504N 500N 496N 492 N 488N 484N 480N 476N 472N 468N 464N 460N

240 E
238E
236E
234E
232 E
230 E
228E
226 E
224 E
222 E
BASELINE 220E
218 E
216E
214E
212 E
210 E
208E
206E
204E
202E
BASELINE 200E
198E
196E
194 E
192 E
190E
188 E
186E

WCP
437084
437134
437082
437081
SHAFT
ISLAND
ISLAND
ISLAND
437133
437085
ISLAND
ISLAND
437080
437083
ISLAND
487306
487305
436994
436995
487304
437079
487307
BENT CABLE
BENT CABLE
BENT CABLE
TRENCH
436996

525/02NE-0059,#3



SHERRITT GORDON MINES LIMITED

AREA—STURGEON LAKE
GROUP—DAVIDSON—CARR
ELECTROMAGNETIC SURVEY
MAX—MIN 2
N.T.S:52—J—2
FREQUENCY: 888
OPERATOR: D.BREEZE
SCALE: 1"=200' ALSO 1"=20%
COIL SEPARATION 400'
DRAWN BY: T.B.NICKEL
AUGUST 1981

REGISTERED PROFESSIONAL ENGINEER
V. B. VOYER
PROVINCE OF ONTARIO

LEGEND:
IN PHASE
OUT OF PHASE
CLAIM LINE
CLAIM POST
SHORELINE

ASTRO MAG

525/02NE-0059,#3

52J02NE0054 52J02NE0053 BECKINGTON LAKE
210

532 N 528 N 524 N 520N 516 N 512 N 508N 504N 500N 496N 492N 488N 484N 480N 476N 472N 468N 464N 460N

240 E 238 E 236 E 234E 232 E 230E 228 E 226 E 224 E 222 E BASELINE 220E 218 E 216 E 214 E 212 E 210 E 208E 206E 204E 202E BASELINE 200E 198 E 196E 194E 192 E 190E 188E 186E

WCP

437084

437082

437081

SHAFT

437134

ISLAND

437085

437133

437080

437083

ISLAND

ISLAND

ISLAND

ISLAND

487305

487306

436994

436995

487304

437079

487307

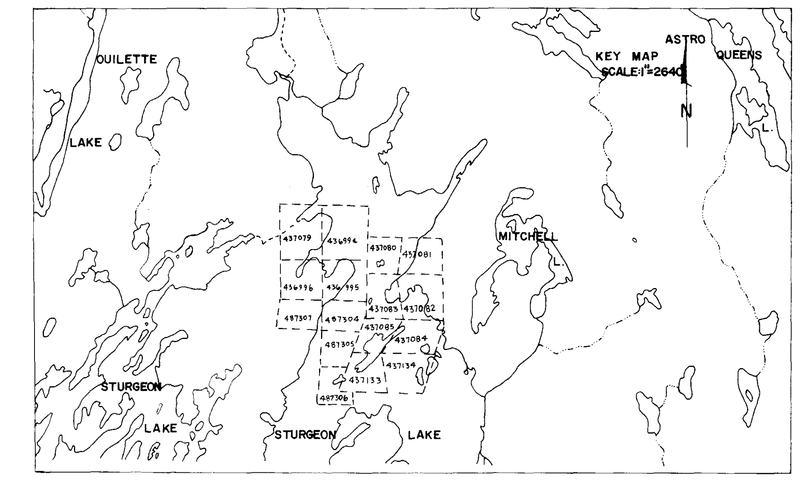
BENT CABLE

BENT CABLE

TRENCH

436996

52J/02NE-0059,#2



SHERRITT GORDON MINES LIMITED

AREA-STURGEON LAKE
GROUP-DAVIDSON-CARR
ELECTROMAGNETIC SURVEY

MAX-MIN 2
N.T.S.52-J-2
FREQUENCY-3555
OPERATOR-D.BREEZE
SCALE-1"=200' ALSO 1"=20%
COIL SEPARATION-400'
DRAWN BY-T.B.NICKEL
AUGUST 1981

V. R. VERIN
MINING

LEGEND:
- IN PHASE
- OUT OF PHASE
- CLAIM LINE
- CLAIM POST
- SHORELINE

ASTRO MAG

52J/02NE-0059 ,#2

52J/02NE-0059,#2