

NOV 26 '85 PREPARE REPLY S, E. YUNDT J. R. MORTON J. C. SMITH V W. P. BROOK M. J. HOBAN D. W. SCOTT S. KEEN

Return To: R.6643

Report on a Magnetometer Survey Clarendon Township Eastern Ontario Mining Division Ontario for St. Joe Canada Inc.

by: David Molloy Qual.
October 1985
23124

SUMMARY:

St. Joe Canada Inc. owns two contiguous claims located in Clarendon Township, Ontario. The claims were acquired from Mr. G. Pearce who had outlined significant soil geochemical anomalies on the property.

Linecutting and ground magnetic surveys were carried out over the claims in March, 1985. The magnetic survey produced ENE trending anomalies.

INTRODUCTION:

Linecutting and a magnetometer survey were carried out on the Clarendon Township property of St. Joe Canada Inc. during March, 1985. The linecutting was conducted under contract to Bruce Fagan of R. R. #4, Coldwater, Ontario. The magnetometer and VLF surveys were completed by Bruce Fagan assisted by Tia Tennent of 1427 Dundas Crescent, Mississauga, Ontario. A total of 4.9km was surveyed.

PROPERTY, LOCATION AND ACCESS:

The Clarendon Township property is owned by St. Joe Canada Inc. and consists of two contiguous mining claims located in the western part of the township. The claim numbers are EO673566 and EO673567.

The property is located in N.T.S. 31C/14 with an approximate geographic centre positioned at lat. 44°54'N and long. 77°01'W.

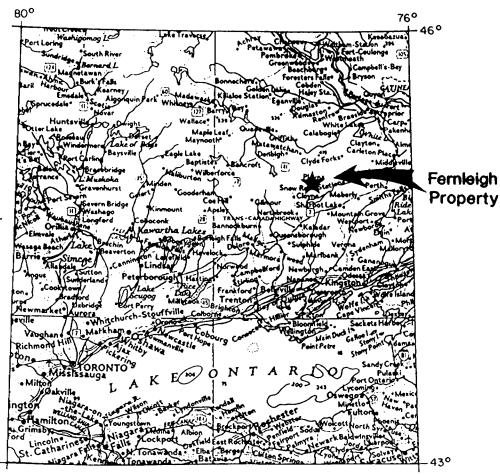
Access to the property is by foot directly north of Hwy. 506, 1 mile west of the town of Fernleigh, Ontario.

HISTORY:

The property was originally staked by Gary Pearce (R.R. #3, Novan, Ontario) for it's muscovite potential in 1981. In August, 1982 additional geologic, geochemical and VLF (EM-16) surveys were conducted by Mr. Pearce to assess the base metal potential of the property. As a result of zinc geochemical soil anomalies St. Joe Canada Inc. optioned the property from Mr. Pearce in January, 1985.

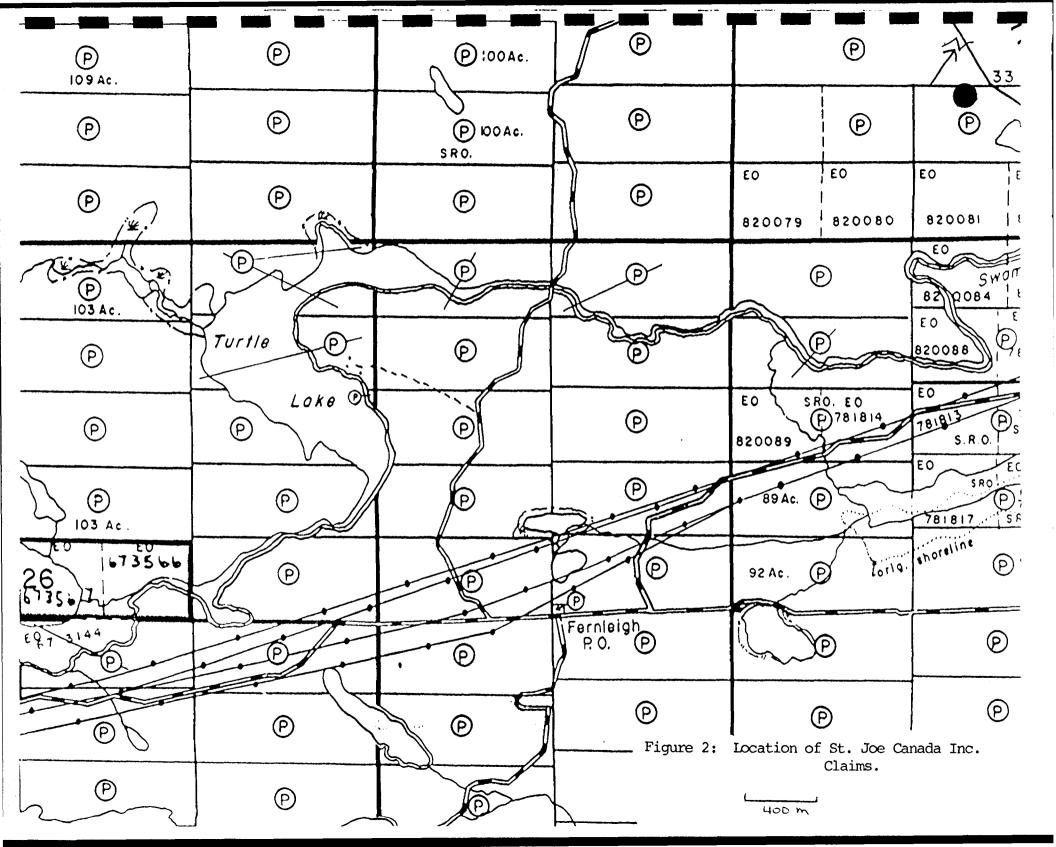
GEOLOGY:

The property lies within the Hastings Basin of the Central Metasedimentary Belt of the Grenville Province. The property is underlain by intercalated metasediments and metavolcanics intruded by later felsic to mafic plutonic rocks.



St. Joe Canada Inc. LOCATION MAP





MAGNETIC SURVEY RESULTS:

magnetic survey using an EDA Model PPM-350 magnetometer and a Model PPM-400 base station magnetometer was carried out along lines oriented north-south and spaced at 100m intervals. Readings were recorded at 12.5m intervals along each A detailed survey with 50m line spacing was carried out over a prominent zinc soil anomaly associated with dolomitic The survey results indicate a prominent positive magnetic anomaly with a relief of up to approximately 2500 gammas trending east-northeast across the southeastern portion of the The anomaly is associated with quartz-muscovitestaurolite schists and quartz-biotite-garnet-feldspar schists. The presence of magnetite as well as pyrite and pyrrhotite mineralization in these units accounts for this Flanking the anomaly to the southeast is a narrow zone of magnetic response which correlates well with a band of dolomitic marble. In the southeast corner of the claim group several small isolated magnetically positive anomalies with a relief ranging from about 600 to 2000 gammas occur in a pelitic schist unit which locally contains disseminated iron sulphides.

The quiet magnetic response occurring over the northern portion of the claim group relates to a thick section of quartz biotite gneiss.

CONCLUSIONS:

Each of the rock units on the property has a distinct magnetic signature and the magnetic survey was useful as a mapping tool in extending geological contacts under areas of overburden cover.

CERTIFICATE

I, David Earl Molloy, of the town of Unionville, Province of Ontario, do hereby certify that:

- 1. I reside at 49 Normandale Road, Unionville, Ontario.
- 2. I have worked as a geologist for the last 13 years.
- 3. I am a graduate of McMaster University with a B.A. Degree (1967) in Philosophy and of the University of Waterloo with a BSc Degree (1972) in Earth Sciences.
- 4. I am a member of the Prospectors and Developers Association, of the Canadian Institute of Mining and Metallurgy, and of the Geological Association of Canada.
- 5. The Magnetometer and VLF Surveys were done under my supervision and I was present when it was being carried out. I have supervised the preparation of the maps and have written the report.

Respectfully Submitted, St. Joe Canada Inc.

David E. Molloy



Mining Lands Section

File No 2.8665

Control Sheet

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MINING	LANDS	COMMENT	rs:			
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) ·					wa7/85	sessor

Date

REGISTERED

November 20. 1985

Report Of Work #57

St. Joe Canada Inc Suite 1116 111 Richmond Street West Toronto, Ontario M5H 2J4

Dear Sirs:

RE: Mining Claims EO 673566 & 67,

in Clarendon Township

I have not received the reports and maps (in duplicate) for the Geophysical (Magnetometer) Survey on the abovementioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on September 30, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on November 29, 1985.

If the material is not submitted to this office by Novembre 29, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

AB/mc

cc: Mining Recorder Toronto, Ontario Encl.

ST. JOE CANADA INC.

111 RICHMOND STREET WEST, SUITE 1116 TORONTO, CANADA M5H 2J4 (416) 367-1031

November 25, 1985

RECEIVED LAND MANAGEMENT BRANCH
NOV 26 '85
PREPARE REPLY
COMMENTS PLEASE
S. E. YUNDT
J. R. MORTON
J. C. SMITH
W. P. BROOK
M. J. HOGAN
D. W. SCOTT
S. KEEN
Return To: R.6643

Mrs. S.E. Yundt, Land Management Branch, Ministry of Natural Resources, Whitney Block, Room 6643, Queen's Park, Toronto, Ontario. M7A 1W3

Dear Mrs. Yundt:

Please find enclosed 2 copies of a "Report on a Magnetometer Survey" conducted on 2 claims in Clarendon Twp. A photocopy of the Report of Work is included for your reference.

Sincerely.

RJ:kg Encl. Robin Jowett Geologist

Adri Jouet

RECEIVED

110V 26 1985

MINING LANDS SECTION

Expend.

Days Cr.



Type of Survey(s)

Survey Company

Special Provisions

Man Days

Airborne Credits

Note: Special provisions

Type of Work Performed

Performed on Claim(s)

Instructio

credits do not apply

to Airborne Surveys.

Calculation of Expenditure Days Credits

Expenditures (excludes power stripping)

For first survey:

Enter 40 days. (This includes line cutting)

For each additional survey: using the same grid:

Complete reverse side

and enter total(s) here

Enter 20 days (for each)

Address

Magnetometer Claim Holder(s)

St. Joe Canada Inc.

same as above

Name and Address of Author (of Geo-Technical report) same as above

Credits Requested per Each Claim in Columns at right

Geophysical

- Electromagnetic

- Magnetometer

Radiometric

- Other

Geological Geochemica!

Geophysical

- Other Geological Geochemical

Electromagnetic

Magnetometer

Radiometric

· Electromagnetic

 Magnetometer Radiometric

Report of Work # 85-57 (Geophysical, Geological, Geochemical and Expenditures)

2.8665

Mining Act

FO. 673566

Clarendon | Prospector's Licence No T1109

Prefix

Township or Area

Toronto, Ontario M5H 2J4

Expend. Days Cr.

Date of Survey (from & to)

Mining Claims Traversed (List in numerical sequence)

23 06 85 Day Mo. Yr.

Mining Claim

673566

Number

Prefix

ΕO

If number of mining claims traversed exceeds space on this form, attach a list. Note: -

Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

Total Miles of line Cut

2.94

Number

Mining Claim

Do not use shaded areas below.

W8509.57

111 Richmond Street, West - Suite 1116

Days per Claim

40

Days per Claim

Days per Claim

Total Expenditures	Days Credits
\$	÷ [15] = [
	apportioned at the claim holder's
choice. Enter number of d	ays credits per claim selected

Date			Recorded Holder or Agent (Signature)
Sept.	25,	1985	And horas

	For Office Ose O		Total number of mining claims covered by this report of work. Mining Reporder	2
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	1000			
	7:8:9:10:11:	12,1,2,3	4.5.6	
	110)	3 O 1985		
	MINING RECORD	S OFFICE · 10		
and the second				
	673567			

In columns at right. Certification Verifying Report of Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying Robin Jowett Date Certified Sept. 25, 1985 Certified by (Signature) L5J 1G1 883 Sunningdale Bend, Mississauga, Ont. 1362 (81/9)

