

INTRODUCTION:

In late March, 1981, work was carried out on mining claim number Pa 486411. This work consisted of cutting a grid over the claim, and then completing on EM 16 survey over that grid.

LOCATION AND ACCESS:

The claim is located on Savant Lake, on the Poisson Township map sheet number M.1865. It lies to the east of Girard Island in the southern portion of the lake. A snowmobile trail running from highway 599 to the north part of Savant Lake was used to get to the claim.

THE GRID:

In order to properly cover the claim, seven lines were cut, each 50 metres apart and averaging about 225 metres in length. A 300 metre baseline was cut as a control. In all, 2150 metres of line was cut. Stations were placed at 12.5 metre intervals on the lines, for a total of 156 stations. Because of the approximately east-west trending quartz veins on the island, the grid lines were oriented at 010° in order to cross the strike of the veins.

THE INSTRUMENT:

The instrument used for the survey was the Geonics EM 16 VLF (very low frequency) Electromagnetic unit, the VLF method uses the military and time standard VLF transmissions as primary field. The unit is used to measure the secondary fields radiating from the local conductive targets. Both the in-phase and quadrature(?) were recorded, with the in-phase data being filtered by the Fraser Filtering Method. The transmitter in Seattle, Washington was used for this survey.

THE GEOPHYSICAL SURVEY:

The intent of this survey was to hopefully define the quartz veins where overburden or water obscured the geology. It was hoped that the veins would be conductive enough to be picked up by the EM 16 unit. Any conductors that do appear in this survey are short and poorly defined, indicating that either the veins are short and poorly mineralized or that the unit was not sensitive enough to pick up the veins in this environment.

SUMMARY:

A grid was put in and an EM 16 survey was completed over mining claim number Pa.486411. The survey indicated a few short conductors, which may represent quartz veins which appear in outcrop on this claim.

Paul Burchell (B.Sc.-Geology)

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**



Geophysical Report on Mining Claim #486411

Introduction - In late March, 1981, work was carried out on mining claim number Pa 486411. This work consisted of cutting a grid over the claim, and then completing an EM-16 survey over that grid.

Location and Access - The claim is located on Savant Lake, on the Princeton Township map sheet number M. 1865. It lies to the east of Bernard Island in the southern portion of the lake. A snowmobile trail running from highway 599 to the north part of Savant Lake was used to get to the claim.

The Grid - In order to properly cover the claim, seven lines were cut, each 50 metres apart and averaging about 225 metres in length. A 300 metre baseline was cut as a control. In all, 2150 metres of line were cut. Stations were placed at 12.5 metre intervals on the lines, for a total of 156 stations. Because of the approximately east-west trending quartz veins on the island, the grid lines were oriented at 010° in order to cross the strike of the veins.

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Geophysical Survey - The intent of this survey was to hopefully define the quartz veins where overburden or water obscured the geology. It was hoped that the veins would be conductive enough to be picked up by the EM-16 unit. Any conductors that do appear in this survey are short and poorly defined, indicating that either the veins are short and poorly mineralized, or that the unit was not sensitive enough to pick up the veins in this environment.

Summary - A grid was put in and an EM-16 survey was completed over mining claim number Pa 486411. The survey indicated a few short conductors, which may represent quartz veins which appear in outcrop on this claim.

Paul Burchell (B.Sc. - geology)



52J08NW0166 52J08NW0017A1 POISSON

900

January 18, 1982.

Mr. Fred W. Matthews, Supervisor
Projects Unit
Land Management Branch
Ministry of Natural Resources
Room 6404 - Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir,

Please consider the following report and maps (2 copies) re assessment work on the mining claim No. Pa 486411. This work was done by myself and my crew for Mr. Alan Best, the holder of the claim.

Yours truly,

Paul Burchell

January 18, 1982

Mr. Fred W. Matthews,
Supervisor Projects Unit.
Land Management Branch,
Ministry of Natural Resources
Room 6404 - Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

RECEIVED

JAN 29 1982

MINING LANDS SECTION

Dear Sir;

Please consider the following report and map (2 copies) as assessment work on mining claim no. Pa. 486411. This work was done by myself and my crew for Mr. Alan Best, the holder of the claim.

Yours truly,

Paul Burchell.

April 14, 83
Mr. F. F. Anderson

Dear Sirs
I wrote to Mr.
Paul Burchell on claim
No 486411
Also to Preweda on
claim No 487244-46.
Hope to get work
reports in order soon.
I have had trouble
reaching these men.
Mr. Preweda is still
in northern Manitoba.

| | |
|------------------------|-------------------------------------|
| RECEIVED | |
| Loss Management Branch | |
| CIRCULATE | <input checked="" type="checkbox"/> |
| PLEASE | <input type="checkbox"/> |
| APR 19 1983 | |
| SEARCHED | |
| SERIALIZED | |
| INDEXED | |
| FILED | |

Thank you
Alan Best
Savant Lake
Ont
POV-250

April 14, 1983

Mr. F. F. Anderson

Dear Sir;

I wrote to Mr. Paul Burchell on claim No.486411.
Also to Preweda(?) on claim No. 487244-46, hope to
get work reports in order soon, have had trouble
reaching these men. Mr. Preweda(?) is still in
northern Manitoba.

Thank you

Alan Best
Savant Lake, Ont.
POV-250



Ministry of
Natural
Resources

Your file: 52 J/8 NW (32)

1983 06 13

Our file: 2.4509

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

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claim
PA 486411 in the Township of Poisson

The Geophysical (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 this mining claim and
so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Ministry of Natural Resources
RECEIVED
JUN 1 9 1983
RESIDENT GEOLOGIST
SIOUX LOOKOUT

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-1380

Jul

R. Pichette:mc

Attach:

cc: Mr. Allan Best
Savant Lake, Ontario
POV 2S0

cc: Resident Geologist
Sioux Lookout, Ontario



1983 06 13

| | |
|------------------|------------------|
| Recorded Holder | ALLAN BEST |
| Township or Area | POISSON TOWNSHIP |

| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed |
|---|------------------------|
| Geophysical Electromagnetic _____ 20 _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/> | Pa 486411 |
| <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> 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:



Ontario

24509

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Supervisor, Projects Unit
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: December 18, 1981

Recorded holder: Allan Best

Address: Savant Lake, Ontario

Township or Area: Poisson Township M-1865

| Type of survey and number of Assessment days credit per claim | Mining claims |
|--|--|
| Geophysical | Pa. 486411 |
| Electromagnetic <u>20</u> days | |
| Magnetometer _____ days | |
| Radiometric _____ days | |
| Induced polarization _____ days | |
| Section 86 (18) _____ days | |
| Geological _____ days | |
| Geochemical _____ days | |
| Man days <input type="checkbox"/> | Airborne <input type="checkbox"/> |
| Special provision <input type="checkbox"/> | Ground <input checked="" type="checkbox"/> |

Notice to recorded holder:

Survey reports and maps in duplicate must be submitted to the Projects Unit, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Projects Unit with this letter.

David H. Coates
Mining recorder
c.c. Mr. Allan Best
Savant Lake, Ont.

#81-133



Ministry of
Natural
Resources

Geotechnical
Report
Approval

Apr 26/83
1983

File 24509

Mining Lands Comments

- You wanted to see this report again.

To: Geophysics *Mr. Barlow*

Comments

Approved Wish to see again with corrections

Date *May 11/83* Signature *R Barlow*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date _____ Signature _____

To: Geochemistry

Comments

WD

Approved Wish to see again with corrections

Date _____ Signature _____

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



Mining Lands Comments

- no qualifications -
 - map not signed
 - need raw data

To: Geophysics

Mr. Barlow

Comments

- ULF maps not signed
 - ULF maps requires readings
 - ULF maps needs (150y MMP)

Approved

Wish to see again with corrections

Date

Oct 6/82

Signature

[Signature]

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

February 16, 1983

2.4509

Mr. Allan Best
Savant Lake, Ontario
POV 2S0

Dear Sir:

Re: Geophysical (Electromagnetic) Survey submitted on
Mining Claim ~~Pa~~ 486411 in the Township of Poisson

Enclosed is a copy of our letter dated October 21, 1982,
requesting additional information for the above mentioned survey.

Unless you can provide the required data by February 26, 1983,
the mining recorder will be directed to cancel the work credits
recorded on December 18, 1981.

For further information, please contact Mr. F.W. Matthews at
416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

D. Wice

Encl.

cc: Mining Recorder
Patricia

*Fred
Paul Burchell brought in
the attached. It's not all here
yet but Best is forwarding
the raw data to Burchell so
he can provide C & D.*

A.

February 16, 1983

2.4509

Mr. Allan Best
Savant Lake, Ontario
POV 2S0

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E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

D. Wice

Encl.

cc: Mining Recorder
Patricia

*Fred
Paul Burchell brought in
the attached. It's not all here
yet but Best is forwarding
The raw data to Burchell so
he can provide c & d.*

A.

1982 10 21

2.4509

Mr. Allan Best
Savant Lake, Ontario
POV 2S0

Dear Sir:

RE: Electromagnetic Survey submitted on Mining
Claim ~~2~~ 486411 in the Township of Poiseon

Enclosed are the plans for the above mentioned report.
In order to complete your submission we require the
following information (in duplicate).

- a) a brief resume of Paul Burchill's
qualifications (requirements enclosed)
- b) both maps must be signed by Mr. Burchill.
- c) V.L.F. maps must show a reading i.e. raw
data at each station
- d) a key map showing the location of the
property with respect to township
boundaries.

For further information, please contact Mr. F.W. Matthews
at 416/965-1380.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:ac

Encls:

cc: Mining Recorder
Sioux Lookout, Ontario

*Burchill called
Nov 4/82 - will
return maps as
soon as possible.
J.*

1982 02 18

2.4509

Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on mining claim Pa 486411 in the Township of Poisson.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6430
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/smc

RESUME

PAUL STUART BURCHELL

PAUL BURCHELL
1996 BATHURST STREET APT. 138
TORONTO, ONTARIO
PHONE: (416) 781-4209

BORN: Moncton, New Brunswick, 10 March, 1957

HEIGHT: 5'9" WEIGHT 145 lb.

MARITAL STATUS: Single

EDUCATION:

High School: Markham District High School (1975)

University: University of Waterloo, Waterloo, Ont.
Honours Bachelor of Science (Geology) 1980

WORK EXPERIENCE:

May 15, 1982 - November 30, 1982
URANGESSELLSCHAFT CANADA LTD., Toronto, Ontario
SUPERVISOR - T. Beesley

- during the summer months, employed as Party Chief in a helicopter supported uranium exploration program in the Keewatin District, N.W.T.
- duties included the organization and supervision of detailed geologic, geochemical and geophysical surveys, & participation in reconnaissance mapping and prospecting surveys.
- from September until November, employed in Toronto office
- duties included co-authoring final report and the completion of final drafting.

April 10, 1980 - January 31, 1982
UNION MINIERE MINING AND EXPLORATION CO. LTD., Don Mills, Ont.
SUPERVISOR - R. Dehenne

- from October 1, 1980 until Jan. 31, 1982, employed as Exploration Geologist in Savant Lake, Ontario and Toronto, Ontario
- duties included core logging, surface mapping, supervision of and participation in geophysical surveys (EM-16, Max-Min, magnetometer), and diamond drill supervision in primarily felsic volcanic terrain.
- duties also included the evaluation of mine prospects.
- from April 10, 1980 to October 1, 1980, employed as Mine Geologist at the Thierry Mine, Pickle Lake, Ontario
- duties included grade control, underground mapping, core logging, and drill hole planning in this intrusive, ultramafic ore body.

May 1, 1979 - August 31, 1979

URANGESELLSCHAFT CANADA LTD., Toronto, Ontario

SUPERVISOR - R. Koch

- employed as Geophysical Crew Chief in the Dubawnt Basin, N.W.T.
- duties included the supervision of and participation in VLF-EM, resistivity, gravity, Max-Min, and IP geophysical surveys, in an attempt to locate favourable structures for uranium deposits

May 1, 1978 - August 31, 1978

BETH-CANADA MINING CO. LTD., Toronto, Ont.

SUPERVISOR - D. Molloy

- employed as Geological Assistant in Northwestern Ontario
- duties included aiding the geologist in mapping surveys, as well as participating in geophysical and geochemical surveys.

September 1, 1977 - December 1, 1977

NORANDA EXPLORATIONS, Thunder Bay, Ontario

SUPERVISOR - L. Kaye

- employed as Geological Assistant in Northwestern Ontario
- duties included participating in geophysical and geochemical surveys

January 4, 1977 - April 8, 1977

AMOCO CANADA PETROLEUM CO. LTD., MINING DIVISION, Toronto, Ontario

SUPERVISOR - S. Coulson

- employed as Geophysical Assistant in Northwestern Ontario

May 1, 1976 - August 31, 1976

DEPT. OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT, Yellowknife, N.W.T.

SUPERVISOR - W. Padgham

- employed as Geological Assistant in the MacKenzie Mountains, N.W.T.

June 21, 1975 - August 31, 1975

DEPT. OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT, Yellowknife, N.W.T.

SUPERVISOR - M. Braden

- employed as Assistant Expeditor for government geology camps operating out of Yellowknife

B.Sc. THESIS : VLF Studies in Overburden Thickness Near Guelph, Ontario

References supplied on request.

P. Bardell

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52 J/08 NW-0017-A1 #1

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



