STEEP ROCK IRON MINES LIMITED

LITTLE GANELL LAKE PROPERTY

N.E. Corner of Freeborn Twp

Atikokan, Ontario

NTS 52-B-13
Lat 48° 50'
Long 91° 38'

GEOPHYSICAL REPORT

March 4, 1982

Raymond A. Bernatchez, P. Eng
Geologist
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INTRODUCTION AND HISTORY

Gold was first discovered in the Atikokan area in the 1870's, with the first production coming from the Harold Lake mine located 10 kilometres southwest of this property. Other significant gold showings near the property are the former Elizabeth Gold Mines (Fern-Elizabeth), Black Fly Prop, Baarts' showing 1500 metres west of the Little Ganell Lake property.

The area immediately west of the Little Ganell property has been prospected for gold and iron in the past. Two trenches are located on the property between lines 2+00N and 3+00N at 1+50E, low gold values were detected in a quartz vein mineralized with pyrite and chalcopyrite. Steep Rock drilled two holes on the west shore of a small lake 500 metres southwest of Little Ganell Lake.

Baarts claim group, purchased by Steep Rock Iron Mines in May 1962, was economically assessed by G. P. Thoday, P. Eng. from Haileybury, Ontario in August 1961. He mentions of a gold deposit on claim HP 573 located near the present Wagita Bay dam where a narrow quartz vein with high gold values was encountered.

Mr. Thoday also mentions that a drill hole by Tech Exploration intersected a 0.3 foot section assaying 20.64 oz of Au and 6.48 oz of Ag.

An additional hole numbered 18 in the Wagita Bay area returned several interesting gold assays as follows:

- 180'  0.08 oz Au
- 743'  0.04 oz Au
- 911'  0.22 oz Au
- 930'  0.08 oz Au

No section length for these intersections were available to Mr. Thoday.

It is interesting to compare the Little Ganell Lake anomalies with those of the Wagita Bay area. It is obvious that gold mineralization is present in the local area and that the anomalies on Little Ganell Lake warrant thorough investigation.

LOCATION

The property is very accessible from the north road at the north end of the Hogarth Pit. The south end of the property at 0+00 on the baseline is located 500 metres of the A-2 shaft. The baseline was cut at a bearing N35° E starting at the intersection of the north road with the road leading to Rifle Lake pump house.
The grid partially covers patented claims, FF 7556, FF 3641, FF 3642, FF 3643, FF 3660, HP 528, HP 575, and unpatented claims 487366, 487367, 487368, 487369, 487370, 487374, 487375, 487379, 487380, 487402, and 487403. Assessment work is only being applied for the unpatented claim group.

The claims are located approximately 7 miles north of Atikokan in the northeast corner of Freeborn Twp. The unpatented mining claims are bordered by patented claims FF 7553, FF 7554, FF 7555, FF 7556, FF 7956 to the west, FF 3641, FF 3642, FF 3643 to the south HP 528 and HP 575 to the north east. All the adjoining patented claims belong to Steep Rock Iron Mines Ltd.

**REGIONAL GEOLOGY**

The area around the property has been mapped notably by Shklanka (1964-65), O.D.M., E.S. Moore (1939), M.W. Bartley (1930), T.L. Tanton (1941), H.L. Smyth (1891), Steep Rock Iron Mines Ltd and Caland Ore Company Ltd. Numerous other publications have been written on the geology of the Steep Rock Iron Range and clay deposits for the area, too numerous to be listed in this report. One should refer to Shklanka's selected references O.D.M. 1972, Geol. Report No. 93 for a list of these publications.

The property lies within the Wabigoon Sub-province of the Superior Province in the Canadian Shield. The sub-province straddles an east-west metasedimentary belt located approx. 9.5 km south of the property, just south of Atikokan. The metasedimentary belt is bounded to the north by metavolcanic rocks of Archean age.

The metavolcanic and metasedimentary contact is structurally bounded by the East-West Quetico fault. A strong structural trend at N35°E predominates throughout the metavolcanic rocks north of the Quetico fault and immediately north of Atikokan. This structural trend persists through the ore zones of the Steep Rock ore zones and the Caland ore zones and into the hybrid granite-granodiorite-metavolcanic remnants zone located NE of the iron mines. This hybrid zone may form part of the Marmion Lake batholith.

**LOCAL GEOLOGY**

The geological mapping of the property is not completed and proper interpretation of magnetic and electromagnetic data is not possible at this time.

The preliminary geological mapping has revealed three major rock types trending N300E to N400E. They are mafic to intermediate intrusive rocks gabbroic to dioritic granodiorite in composition.
A Scintrex proton magnetometer with an accuracy of one gamma and digital read out was used to measure 738 ground magnetic susceptibilities. A closed loop system with tie-in on the baseline was used to correct for diurnal fluctuation.

The results show a strong lineal trend parallel to the baseline (N35°E). The magnetic readings vary from a high of +2473 gammas to a low of -473 gammas. Contour intervals are at 100 gammas, 50 gammas and 25 gammas.

Numerous magnetic highs and lows prevail throughout the surveyed area. They appear as discontinuous highs and lows. The magnetic highs are never more than 100 metres wide but average about 50 metres wide. These magnetic highs may be caused by rocks of mafic composition or by sulphide mineralization such as pyrrhotite.

The magnetic lows tend to be broader and more extensive and in places tends to transect the general N35°E foliation. This seems to be the situation between line 1700N and 2100N east of the baseline.

The N35°E structural trend persists throughout the property and may be an extension of the Bartley Fault system extending from the north end of the Hogarth Pit. Mineralization may be associated with these mafic to intermediate intrusive associated with structural zones.

The airborne magnetic map 80516 OGS Geophysical-Geochemical Series measuring the total Intensity Magnetic Field outlines moderately high magnetic anomalies on the property.

A ground electromagnetic survey using a Max Min II with readings at every 25 metres and a coil separation of 100 metres with in-phase and out-of-phase reading using two frequencies (444 Hz and 1777 Hz) was carried out over 15.825 km of picket line. Only 9.475 km of this survey was over the unpatented claims. Some strong conductive zones were detected on line 1N to 5N. Other discontinuous conductors were detected on lines 8N (0+25E), 9N (2+00W and 4+25W, 14N (1+25W), 19N (3+00W).

No field geological observation has been made yet to explain the ground or airborne anomalies. Fourteen airborne electromagnetic anomalies were detected over the surveyed area by the Questar survey and the results are shown on survey map No. 80516 and 80515. Flanking magnetic anomalies are associated with Anomaly B, Flight No. 30600E and Anomaly A, Flight No. 30590W.

Very strong anomalies are located at the south end of the grid on lines 1N to 5N. These anomalies correspond well with the strong airborne anomalies.
in the same area. No explanation has been found for these strong anomalies. It was noted that the rocks along the railroad near 0+00N are highly carbonatized and indicated extensive alteration of the rocks.

CONCLUSION

The conductors are true bedrock conductors. Alteration of the rocks are associated with the anomalies. Some weak gold-silver-copper mineralization has been discovered in the area near the anomalies. The geology and mineralization is similar to several gold environments within the granitoid complex associated with the Marmion Lake Batholith. eg (1) Black Fly property, 1200 metres west of the property, (2) Baarts property 1500 metres west of property and numerous other gold properties associated with the Marmion Lake Batholith.

RECOMMENDATION

a) Detail geological mapping of the property be completed in 1982.

b) The property should be evaluated for its gold potential associated with the airborne anomalies.

c) Should any favourable mineralization for gold be found a soil and rock geochemical survey should be conducted on the property to outline any zones covered by overburden.

Raymond A. Bernatchez, P.Eng.
Geologist

March 18/82
CERTIFICATION

I, Raymond A. Bernatchez, of 126 Willow Road, Atikokan, Ontario, do hereby certify that:

1) I am a Professional Engineer registered in the Province of Ontario.
2) I am an exploration geologist living in Atikokan, Ontario.
3) I graduated from the South Dakota School of Mines in Rapid City, South Dakota in 1972 with a B. Sc. degree in Geological Engineering.
4) I graduated from the Haileybury School of Mines in Haileybury, Ontario, with a Mining Technology diploma (3 year program) in May 1969.
5) I have been permanently employed in my profession since graduation in 1972.
6) I have no interest either directly or indirectly nor do I anticipate receiving such interest in the properties or securities of Steep Rock Iron Mines Ltd.
7) The attached report and its enclosed maps are the product of surveys carried out under my indirect supervision.
8) The surveys were carried out during the period of

May 1 ______ to May 30 ______, 1981.

Atikokan, Ontario

Date: March 29, 1982

Raymond A. Bernatchez, P. Eng.
Geologist
Steep Rock Iron Mines Ltd
PROVINCE OF ONTARIO
DEPARTMENT OF MINES
HON. PAUL LEDUC, Minister of Mines
Rickaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 48b

ROCK LAKE AREA
DISTRICT OF RAINY RIVER, ONTARIO

W. BARTLEY in Vol. XLVIII, Part 9, Ontario Department of Mines Annual Report, 1939

Scale 1:18,400 or 1/4 Mile = 1 Inch

LEGEND

QUATERNARY
PLEISTOCENE & RECENT
Gravel, sand and alluvium.
Erosion interval

PRE-CAMBRIAN
POST-TIMISKAMING(ALGOMAN?)
Breccia cemented by pseudodolomite.
Diorite and gabbro (may in part be Kee-watn).

INTRUSIVE CONTACT
TIMISKAMING TYPE
(including Seine & Steprock series)
1. Conglomerate (4a), greywacke (4b), arkose (4c).
2. Leucos and dikes (4d), pillow lava (4e), amygdoloidal lava (4f), diorite lava (4g).
3. Pseudodolerite ash rock.
4. Iron formation.
5. Limestone.
6. Conglomerate (4a), greywacke (4b), arkose (4c).

EROSIONAL UNCONFORMITY?
LAURENTIAN
1. Grey granite (3a), red hornblende granite (3b).

INTRUSIVE CONTACT
KEEWATIN
1. Iron formation.
2. Acid lava (3a), pillow lava (3b), tuff (3c), conglomerate (3d).
3. Intermediate to basic lava (3a), pillow lava (3b), tuff (3c), conglomerate (3d), diorite andesite (3e).

ROCK FORMATIONS INDICATED
(beneath the lake)

BY GEOPHYSICAL METHODS
(Survey conducted by A. A. Brant)

- Ash rock.
- Limestone and breccia.
- Greywacke.
- Granite.
- Intermediate to basic lava.
- Hematite.

Appendix (b)
PRE-CAMBRIAN

ALGOMAN

Scale 1" = 1 mile

- Gabbro and diabase dikes and small stocks.
- Hornblende syenite, grenodiorite, monzodiorite, diorite, and latite porphyry dikes or small stocks.
- Granite, granite gneiss, pegmatite, aplite, felsite, quartz and felsic porphyries.

TIMISKAMING (Sine and Steeprock series)

- Quartz-sericite schist, quartzite, bands of grey-wacke and shale, small lenses of iron formation, 1-3 feet thick, and occasional manganese and small lenses of carlsbadite.
- Quartzite, arkose, grey-silt and slate.
- Ferruginous carbonate and breccia (yellow, brown, and red weathering).
- Other, lava flows, agglomerate and tuff, interbedded with sediments.
- Limestone, blue to grey.
- Conglomerate, arkose, and quartzite.

LAURENTIAN

- Hybrid rocks, mixed granite and greenstone, hornblende and biotite gneiss.

KEEWATIN

- Banded iron formation.

- Pillow lavas, basalt, andesite, dacite, small areas of rhyolite, basalt, intrusions, agglomerate and tuff, and chlorite, hornblende and sericite schists derived from these various types of rock.

Moore 1937 ODM
Vol 1 XLVIII Part 2
Annual Report.

SYMBOLS

- Hill.
- Swamp.
- Elevation in feet above sea level.
- Motor road.
- Trail or portage.
- Glacial striations.
- Geological boundary.
- Strike and dip.
- Strike and vertical dip.
ONTARIO GEOLOGICAL SURVEY
GEOPHYSICAL/ GEOCHEMICAL SERIES
MAP 80516
ATIKOKAN – MINE CENTRE AREA
(EASTERN PART)
Airborne Electromagnetic Survey

DISTRICT OF RAINY RIVER
Scale 1" = 1/2 mi

NOS References: 528/12, 528/13
OGM/GSC Aeromagnetic Maps: H1326, H1336
OGM Geological Compilation Map: H065

INDEX MAP

LEGEND

- Channel Anomaly
- Channel Anomaly
- Channel Anomaly
- Channel Anomaly
- Channel Anomaly
- Magnetic Correlation

Note: The diagram includes a variety of symbols and lines representing different types of anomalies and electromagnetic data, along with a legend for interpretation.
Type of Survey: Magnetometer Survey

Township or Area: Freeborn Two, M-2361

Claim holder(s): Stenn Rock Iron Mines Ltd, Atikokan, Ontario, POT 1CO

Author of Report: Raymond A. Bernatchez

Address: Box 1376, Atikokan, Ontario

Covering Dates of Survey: March 1981, January 1982

Total Miles of Line cut: 27.0 km

SPECIAL PROVISIONS CREDITS REQUESTED

Geophysical

- Electromagnetic
- Magnetometer: 40
- Radiometric
- Other

Geological

Geochemical

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

Magnetometer

Electromagnetic

Radiometric

DAYS per claim

487366 3/4
487374 1/2
48739 1/2
487402 3/4

TOTAL CLAIMS: 10

RECEIVED

FEB 10 1982

MINING LANDS S...
GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

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: Electromagnetic Survey
Township or Area: Freeborn Twp M-2361
Claim holder(s): Steep Rock Iron Mines Ltd
Atikokan, Ontario POT 1CO
Author of Report: Raymond A. Bernatchez
Address: Box 1376, Atikokan, Ontario
Covering Dates of Survey: March 1981, January 1982
Total Miles of Line cut: 17.925 km

SPECIAL PROVISIONS
CREDITS REQUESTED

Geophysical
- Electromagnetic: 20
- Magnetometer
- Radiometric
- Other

Geological
Geochemical

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

Magnetometer: Electromagnetic: Radiometric

DATE: February 1, 1982
SIGNATURE: Raymond A. Bernatchez
Author of Report or Agent

PROJECTS SECTION
Res. Geol.: Qualifications
Previous Surveys

Checked by: date

GEOLOGICAL BRANCH

Approved by: date

GEOLOGICAL BRANCH

MINING CLAIMS TRAVERSED
List numerically

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RECEIVED
FEB 10 1982

MINING LANDS SECTION

TOTAL CLAIMS: 10
March 29, 1982

Land Administration Branch
Mining Land Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park
TORONTO, Ontario
M7A 1W3

Dear Sir:

I am submitting duplicate sets of geophysical reports and maps for evaluation as partial fulfilment of assessment work on the following properties in the Atikokan area. The properties are listed as follows with their respective claim numbers:

1) Marsh Lake Property - Schwenger Twp (M2364) Cl. No. 487657, 487658, 487659, 487360, 487361, 487363 and 560304.

2) Little Canell Lake Property - Freeborn Twp (M 2361) Cl. No. 487366 to 487370, 487374, 487375, 487380, and 487402.

3) Long Lake Property - Tanner Twp (M 2388) Cl. No. 560274, 560275, 560277, 560278, 560298 and 560300.

4) Turning Lake Property, Norway Lake Area (M 2385) Cl. No. 487412 to 487417, 487487 to 487495 inclusive.

5) Keewatin - Jefferson Lake Property (M 2384) Richardson Lake Cl. No. 487390 to 487401 inclusive (Jefferson Lake group); Cl. No. 487497, 487498, 487500 to 487504, 487456 to 487462, 487464 to 487466, 487468, 487424, 487428, 487432, 487436, (Keewatin Lake group).

Yours very truly,

Raymond A. Bernatchez, P. Eng.
Geologist

RAB: jef
## Notification of recording of assessment work credits

**Lands Administration Branch**  
**Mining Lands Section**  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

**Date of recording of work:** February 4, 1982

**Recorded holder:** Steep Rock Iron Mines Limited

**Address:** Atikokan, Ontario POT 1CO

**Township or Area:** Richardson Lake Area (M2384) Schwenger Twp. (M2364)  
Norway Lake Area (M2385) Hepburn Lake Area (M2388)  
Freeborn Township (M2361)

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**Notice to recorded holder:**

☑ Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

☑ Reports and maps are being forwarded to the Lands Administration Branch with this letter.

**Acting Mining recorder**

Steep Rock Iron Mines Limited  
P.O. Box 1376  
Atikokan, Ontario POT 1CO
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims K 487366 et al in the Township of Freeborn.

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

J. Skura/amc

cc Steep Rock Iron Mines Ltd.
Atikokan, Ontario
To: Geophysics

Mr. Barlow

Comments

☐ Approved ☐ Wish to see again with corrections  Date Oct 22/82  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: 5-1360)
Dear Madam:

RE: Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims TB 487366 et al in the Township of Freeborn.

The Geophysical (Electromagnetic & Magnetometer) Survey assessment work credits as listed with my Notice of Intent dated March 1, 1983 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
Phone: 416/965-1380

A. Barr:sc

c: Steep Rock Iron Mines Limited
   Atikokan, Ontario

c: Mr. Raymond A. Bernatchez
   Atikokan, Ontario

c: Resident Geologist
   Thunder Bay, Ontario
Dear Mrs. Audrey Hayes,

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

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

E.F. Anderson
Director
Lands Administration Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

A. Barr:sc

Encls:

cc: Steep Rock Iron Mines Limited
Atikokan, Ontario

cc: Mr. Raymond A. Bernatchez
Atikokan, Ontario

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario
An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the “Special Provision-Performance and Coverage” method and you are of the opinion that a re-appraisal under the “Man-days” method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.
Ministry of Natural Resources

Technical Assessment

Work Credits

Recorded Holder: Steep Rock Iron Mines Ltd.

Township or Area: Freeburn

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<td>□ Credits have been reduced because of corrections to work dates and figures of applicant.</td>
<td></td>
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</table>

TB 487366 to 70 incl.

487374 - 75

487380

487402

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

FM & Mag.

TB 487379

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.
**Notification of recording of assessment work credits**

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen’s Park, Toronto  
M7A 1W3

Date of recording of work: **February 4th, 1982**

Recorded holder: **Steep Rock Iron Mines Ltd.**

Address: **Atikokan, Ontario POT 1CO**

Township or Area: **Schwenger Township (M2364) Freeborn Twp. (M2361) Richardson Lake Area (M2384) Norway Lake Area (M2385)**

<table>
<thead>
<tr>
<th>Type of survey and number of Assessment days credit per claim</th>
<th>Mining claims</th>
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<tbody>
<tr>
<td>Geophysical</td>
<td>TB487357-59 incl., TB487361</td>
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<td>Electromagnetic</td>
<td>TB487363, TB487366-70 incl.</td>
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<td>Magnetometer</td>
<td>TB487374-75, TB487380,</td>
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<td>Radiometric</td>
<td>TB487402, TB487390-401 incl.</td>
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<td>Induced polarization</td>
<td>TB487412-17 incl., TB487487-95 incl.,</td>
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<td>Section 86 (18)</td>
<td>TB487500-04 incl., TB487456-62 incl.,</td>
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<td>Geological</td>
<td>TB487468-, TB487424-</td>
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<td>Geochemical</td>
<td>TB487428, TB487432, TB487436</td>
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<td>Man days □ Airborne □</td>
<td>□</td>
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<tr>
<td>Special provision ☑ Ground ☑</td>
<td>☑</td>
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Notice to recorded holder:

☑ Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

☑ Reports and maps are being forwarded to the Lands Administration Branch with this letter.

**Acting Mining recorder**

**Steeprock Iron Mines Limited**  
Atikokan, Ontario POT 1CO
REFERENCES
AREAS WITHDRAWN FROM DISPOSITION
S.R. - SURFACE RIGHTS  M.R. - MINING RIGHTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>Date Deposition</th>
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<tr>
<td>W69/75</td>
<td>24/H/76</td>
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DATE OF ISSUE
DEC 14 1982
Ministry of Natural Resources

NOTES
FLOODED LANDS ON UPPER BAR LAKE EL. 1335-45
GEODETIC SURVEY OF CANADA, SJ HANCOCK

THIS TOWNSHIP LIES WITHIN THE BOUNDARIES OF THE CORPORATION OF THE TOWNSHIP OF ATIKOKAN

REFERENCES