REPORT ON
GEOLOGICAL MAPPING
CLAIM: 1223329
BEAVER CREEK PROPERTY
SOUTH LORRAIN TOWNSHIP
LARDER LAKE MINING DIVISION
ONTARIO
FOR
H.A. MOORE

RECEIVED
JAN 29 1998
GEOSCIENCE ASSESSMENT OFFICE

F.J. SHARPLEY
AUGUST 1997
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Beaver Creek Property

Geological Map 1:2500
Compilation Map 1:2500
SUMMARY

The Beaver Creek Property consists of 8 non-patented mining claim units located in the South Lorrain area of the Larder Lake Mining Division of Ontario. The property lies on the eastern rim of the Cobalt Embayment where silver mining has produced 23 million ounces from 1908 to 1965.

During the period of June 26 1997, geological mapping was carried out on claim 1223329 of the Beaver Creek Property to investigate possible northward extensions of the Keeley silver-cobalt-nickel veins.

A significant assay of a sample from the dump of old workings on the east boundary of claim 1223329 returned values of 8.71% Ni, 6.47% Co, 29.79% As with trace elements of silver, copper and gold. The sample contained a 2 inch calcite vein in diabase with cobaltite, niccolite, pyrite and cobalt bloom.

A program of humus geochemistry is recommended to evaluate the VLF-EM conductors "F", "S", "T", "U" and "V" in Keewatin volcanics, Coleman conglomerate and Nipissing diabase for silver, nickel, cobalt, arsenic and copper mineralization.
1.0 INTRODUCTION

Geological mapping on claim: 1223329 was authorized by H.A. Moore on the Beaver Creek Property in South Lorrain Township, Larder Lake Mining Division, Ontario. The geological survey was designed to investigate the area for old workings and to assess the claim for economically potential silver and cobalt mineralization.

The field work was carried out during June 1997.

2.0 PROPERTY

2.1 Claims

The Beaver Creek Property consists of 8 contiguous, non-patented mining claim units in South Lorrain Township in the Larder Lake Mining Division of Ontario.

The claims are numbered as follows:

- L-1137486: 2 unit - South Lorrain Township
- L-1198615: 1 unit
- L-1198616: 1 unit
- L-1207574: 2 unit
- L-1223329: 1 unit
- L-1223330: 1 unit

The claims total 320 acres or 128 hectares and are registered in
the name of H.A. Moore.

2.2 Location and Access

The property is located 25 km southeast of Cobalt, Ontario and 4 km west of Lake Timiskaming. Access is from Highway 11B at North Cobalt and south on Highway 567 to South Lorrain for 27 km. The property straddles the highway. Ontario Hydro power lines pass within two miles of the property.

2.3 Topography

The topography on the property is mainly outcrop ridges with intervening swampy valleys. Topographic relief on the property is approximately 60 metres. There are two small beaver ponds on the Beaver Creek Property. The forest cover is mixed with spruce, birch, poplar, balsam and alders.

The climate is typical of northern Ontario with snow cover and cold weather from mid November until May.
3.0 EXPLORATION HISTORY

The first geological map covering South Lorrain was published by Barlow (1899) with his report on the Nipissing and Temiscaming Region. The first geological report devoted entirely to South Lorrain was by Burrows (1909) and Knight (1922). The first detailed geological report to cover the township was by Todd (1925). Aeromagnetic coverage of the area in 1965 was provided by the GSC. McIlwaine (1970) provided the most recent work in ODM Geological Report 83 on Geology of South Lorrain Township at a scale of one inch to 1/2 mile.

There is evidence of considerable pitting and trenching that probably occurred during the period from 1907-1913 and from 1921-30 (Thompson 1959). The present claims L-1223329 (formerly RL481), was a patented claim at one time.

A pit or shaft is evident on claim RL482 near the west boundary with 1223329 (formerly RL481).

In 1996, H.A. Moore carried out 1.98 km of linecutting, magnetometer and VLF-EM surveys on claim 1223329.

In 1997, H.A. Moore carried out 1.98 km geological survey on claim 1223329.
4.0 GEOLOGY

4.1 Regional Geology

The Beaver Creek Property lies in the Abitibi Subprovince of the Superior Province of the Precambrian Shield. The project area is situated within the Cobalt Embayment and forms the part known as the South Lorrain or Silver Centre Mining Camp (Figure 1).

The Nipissing Diabase in the South Lorrain area forms a dome structure with the axis striking north-northeast. The older Keewatin metavolcanics, Coleman conglomerate, Firstbrook laminated quartzites and Lorrain feldspathic quartzites over and underlay the diabase sheet.

Prominent northwest faults (Maidens Lake) and north-northeast faults (Beaver Lake) cross the area.

4.2 Property Geology

The Beaver Creek Property lies within the Cobalt Embayment on the eastern rim (Figure 1) composed of Archean and Proterozoic rocks. The rocks on the property consist of Keewatin metavolcanics, Cobalt Group Coleman conglomerate and Nipissing diabase.

The Maidens Lake fault crosses the property. The formations are
striking northerly and dipping at a shallow angle to the west.

5.0 MINERALIZATION

5.1 REGIONAL MINERALIZATION

Production from the South Lorrain Mining Camp from 1908 to 1965 totalled 23 million ounces of silver, 3.5 million pounds of cobalt, 63,450 pounds of nickel and 10,292 pounds of copper. The most production was from the years 1909 to 1913 and from 1922 to 1931 with the main production totalling 82 percent from the Keeley and Frontier Mines.

The silver occurs in the native state in carbonate veins and vein systems. These veins systems have a close relationship with the Huronian-Archean unconformity where Nipissing diabase sills and steeply dipping Archean volcanic sequences coincide. The vein systems are fault controlled.

In the South Lorrain area the production has come mainly from the 300 feet of metavolcanics overlying the diabase dome on the western flank in vein systems striking north or northeasterly but a minor production has come from the diabase. The ore is mainly native silver, cobaltite and niccolite in calcite veins. The South Lorrain area has an unusual occurrence of secondary
enrichment due to deep pre-glacial oxidation on the Wood's vein at the Keeley mine (McIlwaine 1970).

5.2 Property Mineralization

On claim 1223329 (formerly RL481) at the east boundary with claim RL482 there are a series of pits, trenches and possible a shaft striking 160, 150 and 145 degrees (Geological Map: 1:2,500). The possible shaft is maybe 15 metres deep with an extensive muck pile. Samples from the muck pile indicate a calcite vein of 2 inches containing cobaltite, niccolite and pyrite with cobalt bloom which assayed 8.71% Ni, 6.47% Co and 29.79% As with traces of silver, copper and gold (Table No. 1). Most of the workings are on adjacent claim RL482 but are striking onto claim 1223329.
6.0 CURRENT WORK CARRIED OUT

6.1 Geological Mapping

During the period of June 26, 1995 the claim 1223329 of the Beaver Creek Property was mapped geologically by the writer on a scale of 1:2500. The property has picket lines spaced at 100 metre intervals and stations at 25 metre intervals. The grid consists of 1.98 line km of picket line with the baseline off the claim but oriented in a north-south direction.

The mapping consists of outlining the surface geology, topography, vegetation, soil cover, roads and claim posts. The outcrop areas outline the rock-type, structure, alteration and mineralization.

The geological mapping was plotted on one sheet on a scale of 1:2500. The plotting of the geology of claim 1223329 was coordinated with the mapping of the remainder of the Beaver Creek Property.

One rock sample which was mineralized, was analyzed for silver, cobalt, nickel and copper by Swastika Laboratories (a division of TSL/Assayers Inc.) at Swastika, Ontario. The results are shown in Table 1.
7.0 DISCUSSION OF RESULTS

7.1 Geological Mapping

The Keewatin Volcanics (1) do not outcrop on claim - 1223329 although this rock-type is interpreted to occur on lines 0, 1N, 2N and 3N at about 2+00E.

The Coleman Conglomerate (5) occurs on claim - 1223329 in numerous outcrops on line 2N at 1+50E. The rock-type is more of a pebble conglomerate with numerous 1" pebbles of granite in a greywacke matrix.

The Nipissing Diabase (8) is a medium to coarse grained massive intrusive rock with disseminated magnetite. The rock-type is occasionally pinkish when there is an increase in K2O.

The rock formations strike northerly and dip at about 15 degrees west.

The Maidens Lake fault strikes northwest across the claim and dipping southwest. The fault appears to offset the formations.
8.0 CONCLUSIONS AND RECOMMENDATIONS

A significant assay of a sample from the dump of old workings on the east boundary of claim 1223329 returned values of 8.71% Ni, 6.47% Co, 29.79% As with trace elements in silver, copper and gold. The sample contained a 2 inch calcite vein in diabase with cobaltite, niccolite, pyrite and cobalt bloom.

A program of humus geochemistry is recommended to evaluate the VLF-EM conductors "F", "S", "T", "U" and "V" in the Keewatin volcanics, the Coleman conglomerate and the Nipissing diabase for silver, nickel, cobalt, arsenic and copper mineralization (Compilation Map).
REFERENCES


EMR (1983) Topographic Map: 31 M/4 Temagami; 1:50,000

EMR (1982) Topographic Map: 31 M/3 Fabre; 1:50,000

G.S.C. (1965) Fabre: Aeromagnetic Series Map 1481G 1 inch to 1 mile
Temagami: Aeromagnetic Series Map 1491G 1 inch to 1 mile

Knight C.W. (1922) Geology of the mine workings of Cobalt and South Lorrain silver areas; Ontario Department of Mines, Vol.31,pt.2, 374p.(published 1924) and accompanying maps

Loring F. (1911) Private Report for Marathon Silver Mines Ltd. One file with O.D.M.


OGS (1971) Sudbury Cobalt Sheet; Geological Compilation Series Map 2188

Sharpley, F.J. (1994) Exploration Report on S.L. Mor Project Beaver Creek Property, South Lorrain Township Larder Lake Mining Division, Ontario For H.A. Moore

Sharpley, F.J. (1996) Exploration Report on Soil Geochemical Survey S.L. Mor Project Beaver Creek Property South Lorrain Township Larder Lake Mining Division, Ontario For
H.A. Moore

Sharpley, F.J. Report on Geological Mapping
(1997) Beaver Creek Property
Claim:-1223329
South Lorrain Township
Larder Lake Mining Division, Ontario For
H.A. Moore

Thompson R. Report on Claim T-46550
(1959) South Lorrain; Resident Geologists Report
Cobalt, Ontario. On file with the O.D.M.

Walker W. Report on Geophysical Surveys,
(1966) Mobiko Mines Limited
South Lorrain Township
On file with the O.D.M.

MNR Claim Map: G-3448: South Lorrain Township
(1997)
CERTIFICATE OF QUALIFICATION

I, Frederick James Sharpley of the City of Burlington, Province of Ontario, do hereby certify:

1) That I am a consulting geologist and reside at 2372 Sinclair Circle, Burlington, Ontario, L7P 3C3.

2) That I graduated from the University of Saskatchewan, Saskatoon, Saskatchewan, holding a degree of Bachelor of Arts, Geology (1959).

3) That I am a Fellow of the Geological Association Of Canada.

4) That I have practised my profession as a mineral exploration geologist for a period of 35 years.

5) That I personally was involved with the technical supervision of the work and the report.

6) That I have no financial interest in the Beaver Creek Property.

Burlington Ontario
August 18, 1997

F.J. Sharpley
APPENDIX I:

LIST OF FIGURES
Fig. 2. Simplified geology of the Cobalt Embayment illustrating the general area encompassing economic deposits and most occurrences of Ag–sulpharsenide mineralization (modified from Ontario Geological Survey Map 2391).
H.A. MOORE
BEAVER CREEK PROPERTY
CLAIM MAP: G-3448
SOUTH LORRAIN TOWNSHIP, ON
LANDER LAKE MINING DIVISION
SCALE: 1:20,000
Fig 3
MORE PROJECT

PHOTOGRAPHIC MAP

SOUTH LORRAIN TOWNSHIP, ON

ARDER LAKE MINING DIVISION

SCALE: 1:50,000
H. A. Moore
BEAVER CREEK PROPERTY
GEOLOGY MAP: O.G.S. 2194
SOUTH LORRAIN TWP., ON
LARDER LAKE MINING DIVISION
SCALE: 1:31,680

Fig. 5
APPENDIX II:

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APPENDIX III:

ASSAYS
Geochemical Analysis Certificate

Company: H.A. MOORE
Project: Beaver Creek PO#
Att': H.A. Moore

We hereby certify the following Geochemical Analysis of 2 Rock samples submitted JUN-30-97 by .

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One assay ton portion used.

Certified by

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705)642-3244  Fax (705)642-3300
Declaration of Assessment Work Performed on Mining Land

Ministry of Northern Development and Mines

Personal information collected on this form is obtained under the authority of subsections 85(2) and 86(3), R.S.O. 1990

Instructions: - For work performed...
- Please type on separate paper.

1. Recorded holder(s) (Attach a list if necessary)

Name: Hugh A. Moore
Address: 38 Wellington St N, New Liskeard, Ont. P0J 1P0

2. Type of work performed: Check (x) and report on only ONE of the following groups for this declaration.

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
- Physical: drilling, stripping, trenching and associated assays
- Rehabilitation

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Seal River Expl Ltd
Address: 2372 Sinclair Circle, Burlington, On.

4. Certification by Recorded Holder or Agent

Hugh A. Moore, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Hugh A. Moore
Date: Jan 19/97

Received by: GeoScience Assessment Office
Date: Jan 20, 1993
5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

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6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- [ ] 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- [✓] 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- [ ] 3. Credits are to be cut back equally over all claims listed in this declaration; or
- [ ] 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.
Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Transaction Number (office use) W9880.00032

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</tr>
<tr>
<td>1.981 km²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meech Lake Computer Drilling</td>
<td>2 days</td>
<td>300.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150.00</td>
</tr>
<tr>
<td>Miltenyi Points Samples</td>
<td>6 Elements</td>
<td>193.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>61.26</td>
</tr>
</tbody>
</table>

Associated Costs (e.g. supplies, mobilization and demobilization).

Transportation Costs

<table>
<thead>
<tr>
<th>Units of Work</th>
<th>Cost Per Unit of work</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>480 Kms</td>
<td>30</td>
<td>140.00</td>
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</tbody>
</table>

Food and Lodging Costs

<table>
<thead>
<tr>
<th>Units of Work</th>
<th>Cost Per Unit of work</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 days - Room x Board</td>
<td>100/day</td>
<td>200.00</td>
</tr>
</tbody>
</table>

Total Value of Assessment Work

<table>
<thead>
<tr>
<th>Units of Work</th>
<th>Cost Per Unit of work</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

HUGH A. MOORE (please print full name) do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as HUGH A. MOORE (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: HUGH A. MOORE
Date: Jan 19/98
March 27, 1998

HUGH ALLEN MOORE
38 WELLINGTON STREET NORTH
BOX 746
NEW LISKEARD, Ontario
P0J-1P0

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Dear Sir or Madam:

Subject: Transaction Number(s):
Submission Number: 2.18078

Status

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12080
Copy for: Assessment Library
**Work Report Assessment Results**

<table>
<thead>
<tr>
<th>Transaction Number</th>
<th>First Claim Number</th>
<th>Township(s) / Area(s)</th>
<th>Status</th>
<th>Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>W9880.00032</td>
<td>1223329</td>
<td>SOUTH LORRAIN</td>
<td>Deemed Approval</td>
<td>March 24, 1998</td>
</tr>
</tbody>
</table>

Section:
12 Geological GEOL

Assessment work credit has been redistributed, as outlined on the attached Distribution of Assessment Work Credit sheet, to better reflect the location of the work.

**Correspondence to:**
Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**
HUGH ALLEN MOORE
NEW LISKEARD, Ontario
The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: March 27, 1998

Submission Number: 2.18078

Transaction Number: W9880.00032

<table>
<thead>
<tr>
<th>Claim Number</th>
<th>Value Of Work Performed</th>
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</thead>
<tbody>
<tr>
<td>1223329</td>
<td>1,600.00</td>
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</table>

Total: $1,600.00