

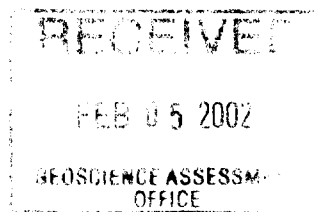


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**REPORT ON GEOLOGICAL MAPPING
ON PART OF THE HESS LAKE GRID
Hess Township, Ontario
for
Champion Bear Resources Ltd.**

January, 2002 Seymour M. Sears

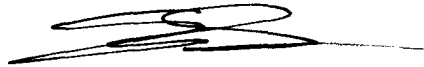


SUMMARY

A geological mapping program was carried out over 26.8 kms of a 47 kilometre grid covering Hess (Clear) and Depot Lakes in the southwest corner of Hess Township, Ontario. The grid was assumed to cover approximately a 5 kilometre strike length of the Hess Offset dyke, a rock known to host copper/nickel and platinum group metals (PGM's) in the Sudbury area. The rock exposure is limited due to the lake cover. However, the area is underlain mostly by Nipissing Diabase, Espanola limestone, marble and related sediments and granite. The favourable Hess offset dyke was located on an island in the eastern end of the area mapped. No significant mineralization was observed.

The mapping should be continued over the eastern half of the grid.

Respectfully submitted,



Wawa, Ontario
January, 2002

Seymour M. Sears, B.A., B.Sc.
Geologist

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INTRODUCTION

This report presents a summary of the results from a work program carried out from October 1st to November 30th, 2001 on the Hess Lake grid, part of the Iron Mask Project of Champion Bear Resources Ltd. The work was carried out and the report written by personnel of Sears, Barry and Associates Ltd. of Wawa, Ontario.

PROPERTY, LOCATION AND ACCESS

The Iron Mask Property consists of 95 contiguous, unpatented mining claims and 6 leased claims totalling approximately 781 claims (12,505 hectares). It is centered near the village of Cartier, approximately 68 kilometres along Highway 144 north of Sudbury, Ontario (Figures 1 & 2). The project area covers parts of five townships - Ermatinger, Hart, Moncrief, Hess and Hartly. The grid upon which this work was completed (the Hess Lake Grid) covers parts of nine claims located in the southwest corner of Hess Township. The claims are numbered as follows:

Champion Bear Resources Ltd. List of Claims - Sudbury Project

*** (Note: Claims upon which work was completed are highlighted)

<i>Claim #</i>	<i>Units</i>	<i>Twp</i>	<i>Claim #</i>	<i>Units</i>	<i>Twp</i>	<i>Claim #</i>	<i>Units</i>	<i>Twp</i>
1043524	16	Hart	1214820	6	Hart	1230804	12	Mncf
1076346	3	Mncf	1214821	1	Hart	1230806	10	Hess
1163246	2	Hart	1214955	4	Hart	1230847	1	Hess
1164300	1	Hess	1214991	16	Mncf	1230856	12	Hart
1165353	2	Hart	1214994	16	Mncf	1230859	4	Hart
1174426	3	Hrty	1215818	6	Hess	1230860	5	Hart
1179399	4	Hart	1215824	16	Hrty	1231174	16	Hess
1179646	6	Hrty	1218244	15	Hrty	1231175	12	Hess
1179647	9	Hrty	1218245	4	Hrty	1231176	16	Hess
1179649	15	Hrty	1218246	2	Hrty	1231177	6	Hess
1197716	6	Hart	1218247	3	Hrty	1231178	2	Hess
1197717	12	Hart	1223178	2	Hess	1231179	10	Hess
1197718	9	Hart	1223179	2	Hess	1231341	12	Hrty
1197722	16	Hart	1223180	9	Hess	1231342	6	Hrty

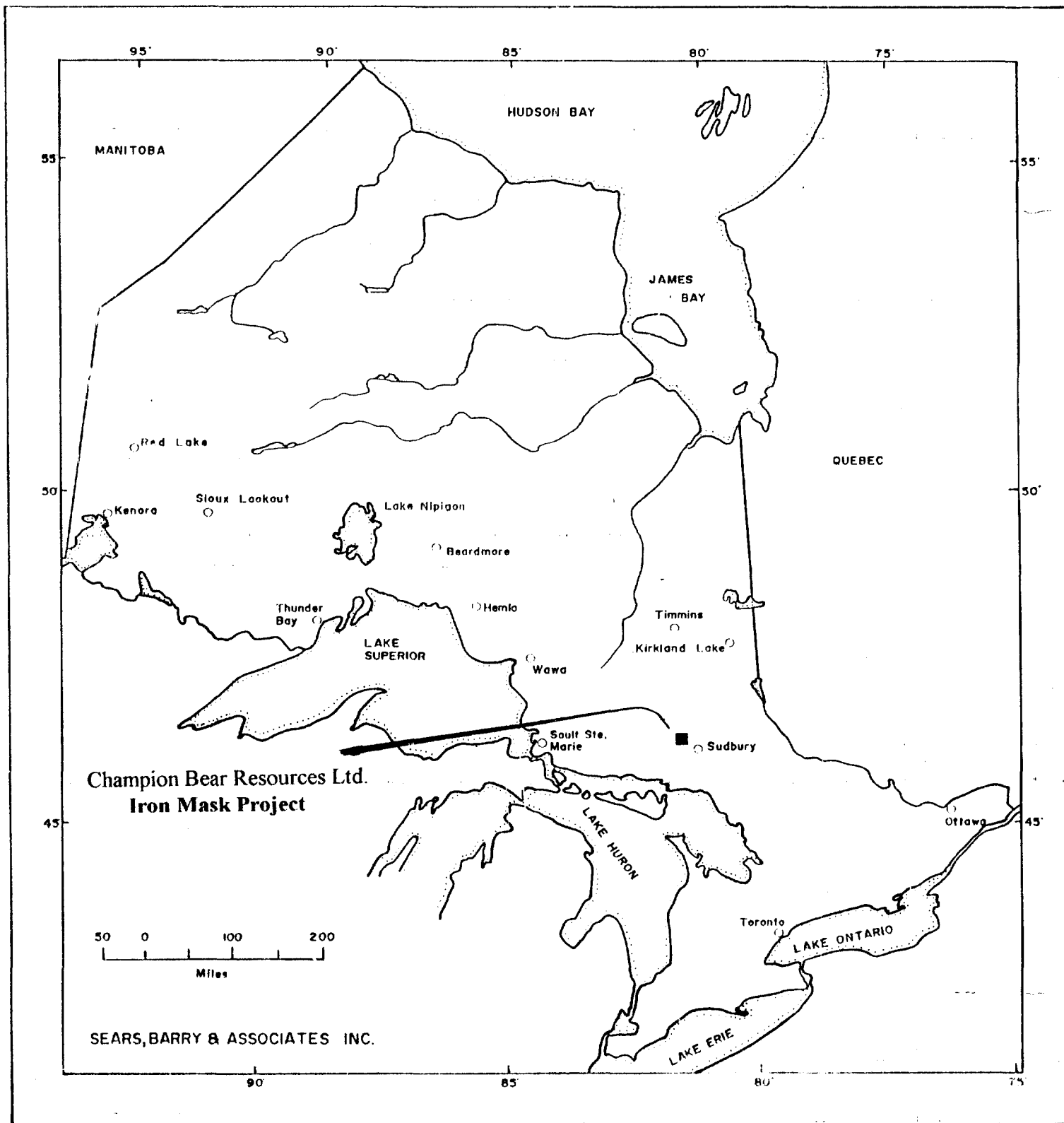


Fig. 1: Regional Location Map of Ontario.

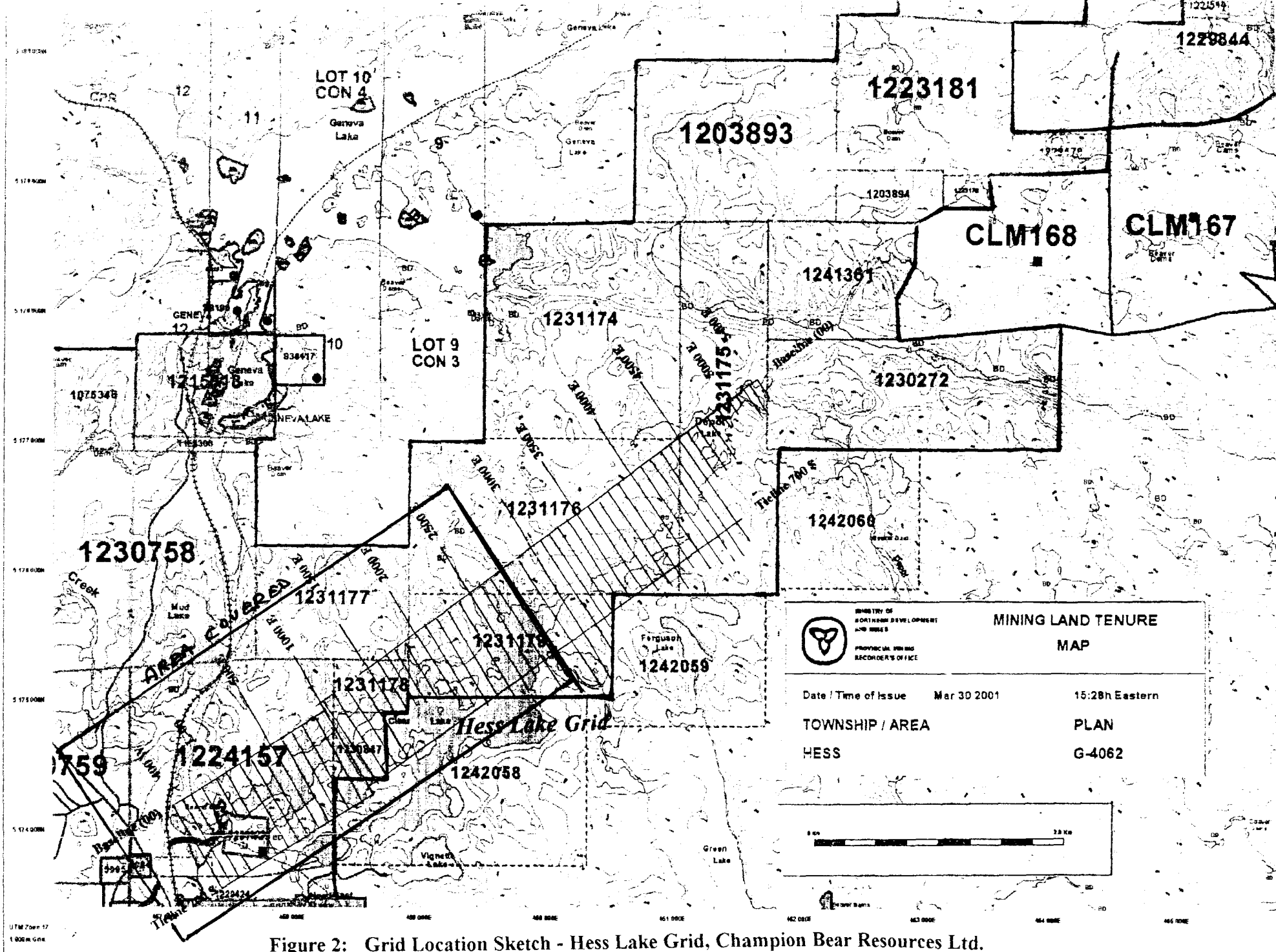


Figure 2: Grid Location Sketch - Hess Lake Grid, Champion Bear Resources Ltd.

These rights in these mining claims shall survive with the Provincial Mining Recorder's Office of the Ministry of Northern Development and Mines in all situations, including in the event of a change of ownership. These rights shall not be affected by any transfer, assignment, or other disposition of the claims, and shall remain in effect until the claims are surrendered to the Province. These rights shall not be affected by any transfer, assignment, or other disposition of the claims, and shall remain in effect until the claims are surrendered to the Province. The information shown is general in nature and is not intended to constitute a warranty or any other form of assurance. It is the user's responsibility to verify the accuracy of the information shown on this map by consulting the appropriate records and/or by consulting the Provincial Mining Recorder's Office at the time of purchasing from the Ministry of Northern Development and Mines web site.

General information and Limitations

Contact information:
 Provincial Mining Recorder's Office 1-888-388-3888
 833 Kennedy Road, Suite 1000
 Sudbury, ON P3E 0B5
 Home Page: www.pmn.gov.on.ca/MND/MMS/51/ANDS/MapInfo.htm

Map Drawn: MAD 03
 Projected: UTM of Spheroid
 Topographic Data Source: Land Information Ontario
 Mining Land Tenure Source: Provincial Mining Recorder's Office

This map may not be used to register or to establish or confirm any mining claims, or to establish any right of way. Mining claims are shown on this map as a general guide only. The user is responsible for verifying the accuracy of the information shown on this map by consulting the appropriate records and/or by consulting the Provincial Mining Recorder's Office at the time of purchasing from the Ministry of Northern Development and Mines web site.

1197723	12	Hart	1223181	10	Hess	1231343	2	Hess
1203893	12	Hess	1224157	15	Hess	1231345	1	Hess
1203894	2	Hess	1229424	5	Hess	1231346	1	Hess
1210838	2	Hart	1229426	8	Hart	1235410	16	Hart
1210839	16	Hart	1229427	7	Hart	1235411	8	Hart
1210840	12	Hart	1229443	4	Hart	1239141	4	Ermt
1210841	4	Hart	1229444	4	Hart	1239142	12	Ermt
1210842	6	Hart	1229729	12	Ermt	1239143	13	Ermt
1211181	2	Hart	1229843	11	Hess	1241361	12	Hess
1211272	2	Hart	1229844	11	Hess	1241362	1	Hart
1211355	1	Hart	1230051	6	Mncf	1241363	1	Hart
1211360	4	Hart	1230053	8	Mncf	1241364	4	Hart
1211361	1	Hart	1230055	12	Mncf	1244383	16	Ermt
1214586	12	Ermt	1230056	12	Mncf	1244384	14	Ermt
1214587	5	Ermt	1230272	6	Hess	1244385	15	Ermt
1214588	16	Ermt	1230758	16	Mncf	1244386	12	Ermt
1214589	11	Ermt	1230759	12	Mncf	1244387	14	Ermt
1214631	14	Ermt	1230789	6	Hrty			

Leased Claim # 66019 (12.6 hectares) Hart Twp
 Leased Claim # 66020 (22.9 hectares) Hart Twp
 Leased Claim # 66022 (7.8 hectares) Hart Twp
 Leased Claim # 630294 (24.5 hectares) Ermatinger Twp
 Leased Claim # 630294 (25.4 hectares) Ermatinger Twp
 Leased Claim # 630294 (12.0 hectares) Ermatinger Twp

The southwest end of the grid area is easily accessed by a Lake access road through the CPR railway yard at Cartier. Access to the remainder of the grid was by canoe.

REGIONAL AND PROPERTY GEOLOGY

The Hess Lake Grid is underlain by Precambrian aged rocks including massive to foliated felsic intrusive rocks, limestones and clastic metasediments of the Huronian Supergroup, Nipissing Group gabbroic sills, quartz diorite dykes referred to as "Offset Dykes" in the Sudbury area and a series of late diabase dykes (Card and Innes, 1981, OGS Map 2435). The grid covers most of Hess Lake and Depot Lake as well as a small unnamed Lake between the two. This Lake system is assumed to be the axis of a fault zone referred to as the Clear Lake Fault.

Known mineralization in the grid area includes magnetite skarn with minor chalcopyrite (as at the Bardswich Prospect) as well as minor sulphides in the Hess Offset Dyke.

WORK HISTORY

Previous work in the area covered by the Hess Grid includes the following:

Rivers Property: **Inco Limited** - 1950's - 1960's: mapping, airborne and surface geophysics and 29 diamond drill holes totalling 2541.1 metres.

Hess east boundary: **Dome Exploration (Canada) Ltd.** (Geoterrex) - 1975: airborne and radiometric survey.

Bardswich Iron Prospect

1966,67,69 - **Jaybee Landry Exploration and Mining Company**: trenching, Drilling, magnetometer survey.

1973-75 - **L.G. Bardswich**: stripping, trenching, assaying, mill testing and drilling of 11 holes (334 m).

1976: **S. Masson** completed masters thesis on deposit.

Thesis by **C.R. Wood** -1998: traced 23 Km. of offset dyke striking through Hess and Harty Twp.

Champion Bear Resources Ltd.

1999: completed one drill hole (IM-11) on the west end of Clear Lake.

2000: Champion Bear completed one drill hole (H-4) on pond between Clear Lake and Depot Lake east of the area mapped; two Offset dykes intersected.

2000 / 2001: Cut grid (54.375 kms) & carried out ground magnetometer, VLF-EM surveys and selected lines of gradient IP.

2001: Completed Holes H-5, H-6, H-7, H-8 and H-9 within the grid area.

WORK PROGRAM AND RESULTS

Overview

The geological mapping covered the western part of the grid between Line 400 West and 2700 East totaling 26.8 kilometres including area under the waters of Hess Lake.

The following table shows the rock types that were observed on the Hess Lake Property.

Table I - Table of Lithologies

Early Proterozoic

- 16 SUDBURY IGNEOUS COMPLEX -(16a) Quartz Diorite (Offset Dykes)): The Hess Offset Dyke - only observed on an Island in the eastern part of the grid; Dark grey, minor quartz, fine to medium grained; located on Lines 2000 & 2100 East.

- 15 SUDBURY BRECCIA (15b) Pseudotachylite): Dark to medium grey to black, Very fine grained matrix with abundant variably sized xenoliths and broken feldspar phenocrysts; observed in the western part of the grid (Lines 200 and 300 East).

- 14 NIPISSING GABBRO (Undivided): Medium grey to black; fine grained to pegmatitic, variably degrees of magnetism ranging from non magnetic to 10% magnetite; relatively massive textured; Underlies most of the southern half of the grid.

Huronian Supergroup

Quirke Lake Group

- 12 GOWGANDA FORMATION: Medium grey, fine grained wacke (unit 12c); located only on line 200East.
- 10 ESPANOLA FORMATION: Light to dark grey, thinly laminated; Steeply dipping, often highly deformed.; Includes 10a) Limestone, 10b) Marble and 10c) Siltstone, Calcareous Siltstone
- 9 BRUCE FORMATION: Medium grey, conglomeratic sandstone, observed only in drill holes between lines 300 East and 800 East.
- 7 MASSIVE FELSIC INTRUSIVE ROCKS: Fine to coarse grained, pinkish orange to grey, massive to locally sheared, granitic rocks; occupy the northern half of the grid on the northwest side of the lake.
- 5 MAFIC INTRUSIVE ROCKS (5a) Metagabbro): Dark grey to brownish black, fine to coarse grained, highly deformed rocks, variably magnetic; probable blow-out from a dyke; located in the extreme southwest end of Hess Lake.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping of the western end of the Hess Lake grid in Hess Township indicates that the area is underlain by northeast trending rocks consisting of Nipissing gabbro on the southeast and granitic rocks on the northwest. A narrow zone of Huronian metasedimentary rocks, primarily composed of Espanola limestones, occupies the contact between these rocks in the southwestern end of Hess Lake. A narrow band of Quartz Diorite dyke (Hess Offset Dyke) occurs on an island in the northeastern end of the grid.

The Offset Dyke contains minor scattered sulphide patches and grains. The geological mapping program should be extended to cover the eastern half of the Hess Grid with particular focus upon delineating the Hess Offset Dyke.

Wawa, Ontario
January, 2002

Respectfully Submitted,

Seymour M. Sears, B.A., B.Sc.
Geologist

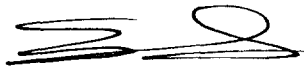
STATEMENT OF QUALIFICATIONS

I, Seymour M. Sears, of Wawa, Ontario do certify that:

1. I am a consulting geologist for Sears, Barry and Associates Ltd., P.O. Box 2058, Wawa, Ontario.
2. I am a B. Sc. Graduate in Geology and a B. A. Graduate in Psychology from Mount Allison University, Sackville, New Brunswick.
3. I have been practicing my profession continuously since 1972.
4. I am a Fellow of the Geological Association of Canada.

January, 2002

Respectfully submitted,



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P0S 1K0

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Geologist

REFERENCES

Card, K.D. and Innes, D.G.

1981: Geology of the Benny Area, District of Sudbury, Ontario Geological Survey Report 206, 117 p, Accompanied by Maps 2434 and 2435

High Sense Geophysics Ltd.

1998: Helicopter Borne Magnetic and Electromagnetic Survey of the Geneva Lake Area (HSG Project 980908-1) for Champion Bear Resources Ltd.

Sears, S.M.

1999: Drill Log (IM-11), Iron Mask Project, Champion Bear Resources Ltd Assessment Report.

2000: Drill Log (H-4), Iron Mask Project, Champion Bear Resources Ltd Assessment Report.

2001: Report on Geophysical Surveys on the Hess Lake Grid, Champion Bear Resources Ltd Assessment Report.

2001: Drill Logs (H-5, H-6, H-7, H-8 and H-9); Iron Mask Project, Champion Bear Resources Ltd. Assessment Report.

Wood, C.R. and Spray, J.G.

1998: Origin and Emplacement of the Hess Offset Dyke, North Range of the Sudbury Impact Structure, Unpublished M.Sc Thesis, University of New Brunswick, 199p

Date: 2002-FEB-25

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P3E 6B5

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2005-9TH STREET, S.,W.,
CALGARY, ALBERTA
T2T 3C4 CANADA

Tel: (888) 415-9845
Fax: (877) 670-1555

Submission Number: 2.22895
Transaction Number(s): W0270.00201

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,



Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

Champion Bear Resources Ltd.
(Claim Holder)

Seymour M Sears
(Agent)

Assessment File Library

Champion Bear Resources Ltd.
(Assessment Office)

