HUDSON BAY EXPLORATION AND DEVELOPMENT

COMPANY LIMITED

ARBOR OPTION

EAGLE - BINGO CLAIMS

ASSESSMENT REPORT 1982

DIAMOND DRILLING

61°47'N 136°15'W

WATSON LAKE MINING DISTRICT

R. STROSHEIN

YUKON TERRITORY

APRIL - 1982
This report has been executed by
the Geological Evaluation
Section 54 (2) Yukon Postz
with the aid of services
represented by the above

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.
REGIONAL DIRECTOR RESOURCES

Attention: Supervising Mining Recorder

RESTRICTED

Enclosed are Diamond Drill logs submitted by Hudson Bay Exploration and Development Company Limited for assessment on the EAGLE - BINGO mineral claims located on Map 105-G-14.

Drill holes were as follows:

- EA-1 143.2 m.
- EA-2 47.9 m.
- EA-3 59.7 m.

Total assessment credit requested is $34,400.00. Drill core from EA-2 is being stored in the warehouse of Hudson Bay Exploration and Development Company Limited at 100-10 Burns Rd. in Whitehorse, Yukon. Drill core for EA-1 and EA-3 are stored at the Pelly Banks camp which is 2 miles east of the Eagle showing alongside the Pelly River.

Yours truly,

[Signature]

Patti L. McLeod
Mining Recorder
Watson Lake Mining District

encl.
cc: Regional Geologist
Ms. P. L. McLeod,
Mining Recorder,
Watson Lake Mining District,
Watson Lake, Y. T.

Dear Madam:

Enclosed is the following:

1. Five copies of Form E; Application to Group Mineral Claims, covering claims EAGLE 1-24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48-58, 60-68 and BINGO 1-16. These claims are located on claim sheet 105G/14.

2. Duplicate copies of Form C, Application for a Certificate of Work for the above claim groups.

3. Invoices for expenses incurred Diamond Drilling on the claim groups.


5. A cheque payable to the Receiver General for Canada in the sum of eighteen hundred dollars ($1800.00) to cover necessary fees as follows:

   5 grouping certificates @ $5.00 each                25.00
   355 Claim years @ $5.00/claim year                1,775.00
   Total -                                           $ 1,800.00

A total of 250.2 meters of drilling was completed in three holes. The following is a breakdown of expenses for the program from the attached invoices.

GENERAL EXPENSES:

Salary & Wages:

   D. Crowe Drill Geologist 15 days @ 125$/day  1,875.00
   M. Girard - Cook 13 days @ 100$/day       1,300.00

Camp Costs:

   5 men x 13 days @ 20$/man day               1,300.00

Fuel & Propane:

   White Pass Petroleum Services Invoice #265308  1,310.00
   ICG Canadian Propane Limited Invoice #144268  936.00
   Morris Auto Services Invoice #60802          335.13
Truck Haul:
A. Carlos Invoice # 027175

Moving Out:
E. Caron Diamond Drilling
1 NQ Bit (Caron Diamond Drilling)

Total General Charges

Average cost per meter - $42.81

TOTAL CHARGES FOR EACH DRILL HOLE

DDH EA-1
General Charges 143.2 meters @ $42.81/meter
Caron Invoice Drilling Charge
Core Boxes 8 @ $5.70 each
Geochemical Analysis 12 @ $7.35 each

Total Costs EA-1

DDH EA-2
General Charges 47.9 meters @ $42.81/meter
Caron Invoice Drilling Charge
Core Boxes 4 @ $5.90 each
Geochemical Analysis 6 @ $7.35 each

Total Costs EA-2

DDH EA-3
General Charges 59.7 meters @ $42.81/meter
Caron Invoice Drilling Charge
Core Boxes 5 @ 5.90
Geochemical Analysis 6 @ $7.35 each

Total Costs EA-3

Grand Total all Drilling Charges

Hole EA-1 Assessment applied
Group 1 75 claim years
Group 2 70 claim years
Group 3 63 claim years

Hole EA-2 Assessment Applied
Group 3 15 claim years
Group 5 55 claim years

Hole EA-3 Assessment Applied
Group 3 2 claim years
Group 4 75 claim years

Total 355 claim years
I trust this material is sufficient to meet the necessary requirements.

Sincerely,

[Signature]

R. Stroshein,
Sr. Exploration Geologist

RS/dw

Encl.
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1. **SUMMARY:**

A total of 250.8 meters of diamond drilling was completed in three test holes on the property. Figure 1 DRILL HOLE LOCATION PLAN.

Two test holes EA-1 (Line 92'W/3+25 mN) and EA-2 (Line 98'W/2+50 mN) were drilled to explore the extent of the mineralized showing at depth and along strike. A third hole EA-3 (Line 68'W/4+50 mN) was drilled to test the equivalent horizon further along strike towards the Shale claim group, where galena sphalerite has been intersected in drill holes at the same stratigraphic horizon as the Eagle surface showing.

The test holes did not intersect any significant mineralization. Two very narrow (1-2 mm) bands of galena-sphalerite were intersected at 29.8 meters in hole EA-2. Moderate to strong quartz-sericite alteration was noted in EA-1 and EA-2 within 10 meters of the lower contact of the graphitic phyllite.

The mineralization at surface (98'W/2+10 mN) occurs as pods and small lenses of banded sphalerite and galena in a quartz-chlorite-hornblende phyllite. The best assay of a grab sample was 5.00% Zn/1.55% Pb/4.672 opt Ag.

Hole EA-3 was essentially a wildcat hole in an area of deep overburden cover (24.4 meters). The drill hole intersected the lower contact of the graphite phyllite at 35.8 meters and continued to a final depth of 59.7 meters. No indications of economic sulphide mineralization was noted.

2. **LOCATION AND ACCESS:**

Figure 2, ARBOR OPTION LOCATION MAP.

The EAGLE-BINGO claim groups are located approximately 64 kilometers ESE of Ross River, Yukon Territory.

The claims are located north of the Pelly River but are accessible in the winter months by 6 km. cat road from the Robert Campbell Highway west of the Big Campbell Creek.

Summer access is by boat crossing of the river or by helicopter.

3. **CLAIM OWNERSHIP:**

Figure 3 EAGLE-BINGO CLAIM LOCATION MAP.

The EAGLE-BINGO claim groups consist of 71 quartz mineral claims owned by Hudson Bay Exploration and Development Company Limited under an option to purchase agreements with Arbor Resources Inc. and the Pelly Banks Syndicate.
Figure 1
ARBOR OPTION
DRILL LOCATION PLAN

SCALE: 1:5,000

DATE: Apr./82
DRAWN BY: RS
WATSON LAKE MINING DISTRICT
CLAIM SHEET 105 G 14

EAGLE-BINGO CLAIMS LOCATION MAP

ARBOR OPTION
HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED

Figure 3
SCALE: 1 in. : ½ mi.
DATE: Apr./82
DRAWN BY: [Signature]

61° 45' N

131° 15' W
The option agreement with Arbor Resources includes the following claims:

- **EAGLE 1 - 24**
  - YA 12644 - YA 12667
- **EAGLE 26**
  - YA 12669
- **EAGLE 28**
  - YA 12671
- **EAGLE 30**
  - YA 12673
- **EAGLE 32**
  - YA 12675
- **EAGLE 34**
  - YA 12677
- **EAGLE 36**
  - YA 12679
- **EAGLE 38**
  - YA 12681
- **EAGLE 40**
  - YA 12683
- **EAGLE 42**
  - YA 12685
- **EAGLE 44**
  - YA 12687
- **EAGLE 46**
  - YA 12689
- **EAGLE 48 - 58**
  - YA 12691 - YA 12701
- **EAGLE 60 - 68**
  - YA 12703 - YA 12711
- **BINGO 5 - 6**
  - YA 54552 - YA 54553
- **BINGO 7 - 16**
  - YA 54538 - YA 54547

The claims included in the option agreement with the Pelly Banks Syndicate are:

- **BINGO 1 - 4**
  - YA 54548 - YA 54551

**4. 1982 DIAMOND DRILLING PROGRAM:**

The drill hole locations are indicated in Figure 1. The drilling results including written logs, cross sections and assay results are presented in Appendices I, II, and III respectively. The diamond drill program was carried out following the drill program on the adjoining Shale-Reno claims.

The drill and ancillary equipment were moved onto the property beginning on March 21, 1982. The drill program was completed and removed from the property by April 1, 1982.

A total of 250.8 meters of drilling was completed in the three holes: EA-1, EA-2 and EA-3.

Casing depths in the drill holes include overburden as well as weathered bedrock material. The graphitic phyllite unit is very recessive and core recovery is impossible in the upper sections.
NQ coring was begun on each hole to improve recovery as well as allowing for reducing to BQ if it became necessary. Hole EA-1 was reduced from NQ to BQ at a depth of 72.2 meters.

The core from drill hole EA-2 is stored in the warehouse of Hudson Bay Exploration and Development Company Limited at 100-10 Burns Road in Whitehorse, Yukon Territory. The drill core for holes EA-1 and EA-3 are stored at the Pelly Banks Camp which is 2 miles east of the Eagle showing alongside the Pelly River.

5. CONCLUSIONS AND RECOMMENDATIONS:

The results of the diamond drilling indicates that the mineralization exposed in the surface trench has a limited extent.

The main conclusion of the program is that hydrothermal system(s) were active at a recognizable stratigraphic horizon. The relationship of the mineralization to the footwall contact of the graphite phyllite unit can be used for exploration. The graphite contact can be mapped using EM methods.

It is recommended to extend the line grid coverage on the property to map the lower graphite contact with the quartz-chlorite phyllite.

It is further recommended to try to determine other techniques to locate potential drill targets. These methods may include overburden drilling and gravity or possibly Pulse EM geophysical surveys.

R. Stroshein,
Senior Exploration Geologist,
N/W District.
APPENDIX I

ARBOR OPTION

DIAMOND DRILL LOGS

DDH EA 1 – 3
Hudson Bay Exploration and Development Company Limited

Diamond Drill Log

Claim: Eagle 20
Location: Arbor Option

Mining Division: Watson Lake

Hole No.: EA-1
Angle: -60°
Direction: South

Co-Ordinates: Line 92+00W/3+25N

Date Started: March 24, 1982
Finished: March 26, 1982
Logged By: D. Crowe

Drilled By: E. Caron Diamond Drilling

Core No. to 72.2 m reduced to BQ thereafter.

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<th>Depth From</th>
<th>Description of Core</th>
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<td>0.0 - 30.5</td>
<td>Casing: Overburden and weathered graphitic bedrock.</td>
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<tr>
<td>30.5 - 72.7</td>
<td>Graphitic Phyllite: Black, massive, soft, extremely incompetent (85% core loss) 71.6 - 72.2 - Quartz laminations: 3 mm sugary quartz 1 cm grains within black groundmass 68.0 - 71.5 - Sandy gouge with narrow 6 cm strongly sheared sections visible</td>
</tr>
<tr>
<td>72.5 - 72.6</td>
<td>Yellow Tuff: Yellow green, grains tuffaceous bands 3-5 mm between dense 1-2 mm yellow green folia. Frequent coarse grey quartz banding (1-3 cm) often with wavy prismatic clots (barite?) Weak sulphide. Flecks of chrome green.</td>
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<td>72.7 - 105.2</td>
<td>Chloritic Phyllite: Green-grey to brownish grey; latter distinctive for this location. Mottled (porphyritic) with 1 mm blocky feldspar crystals. Quartz laminations typically 2-3 mm/2 cm 75.2 - 75.3, 75.4 - 75.5: Yellow Tuff 89.8 - 91.5: Carbonaceous banded (2-3 mm graphic laminations in 1 cm green-grey groundmass) to massive graphitic with coarse 2-5 mm grey quartz laminations per 1-2 cm. Quartz sericite @ 76.8 - 77.2: strong 77.5 - 78.3: moderate 78.7 - 82.6: strong, weak foliation sulphide, fine intricate 2 mm laminar quartz in buff sericite 82.6 - 85.6: moderate 85.6 - 86.2: strong, frequent 6 mm blobs &amp; cubic pyrite in 2 mm to coarse, 2 mm quartz bands 86.2 - 89.0: weak Narrow gouge shears @ 87.5.6, 84.0 Wide gouge shear @ 105.0 - 105.2 Core Angles: 83° @ 81.7, 82° @ 92.0, 93° @ 99.0.</td>
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<td>105.2 - 143.2</td>
<td>Argillaceous Banded Silty Phyllite: two to 5 mm dark grey bands alternate with 2-7 mm light green-grey to brown beds. Fine particulate/tuffaceous porphyritic texture persists. Sharp, fault contact. Coarse bull quartz @ 115.6-115.9, 130.3-130.7.</td>
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Clay gouge and negligible core recovery 133.2 - 143.2

END OF HOLE

CORE RECOVERY

Casing no recovery

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1.0

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2.3

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**Hudson Bay Exploration and Development Company Limited**

**Diamond Drill Log**

**Claim**: EAGLE 63  
**Location**: ARBOR OPTION

**Mining Division**: Watson Lake

**Hole No**: EA-2  
**Angle**: -60°  
**Direction**: Grid South

**Depth**: 47.9 m  
**Grid No**:  
**Co-Ordinates**: Line 98 + 00'E  
2 + 50mN

**Date Started**: March 27, 1982  
**Finished**: March 28, 1982  
**Logged By**: D. Crowe

**Drilled By**: E. Caron Diamond Drilling

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<td>Casing: Overburden and weathered bedrock</td>
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<td>13.7 - 16.8</td>
<td>Graphitic Phyllite: Black, massive, soft and highly weathered. Incompetent clay</td>
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<td>16.8 - 30.2</td>
<td>Chloritic phyllite: Light grey green in color. Porphyritic texture (1 mm blocky feldspar crystals)</td>
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<td>16.8 - 19.5</td>
<td>Mild quartz-sericite alteration</td>
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<td>19.5 - 26.0</td>
<td>Carbonaceous banding alternating light and dark grey banks of 5-7 mm. Quartz laminae of 2-3 mm also. Traditional decrease of carbon content</td>
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<td>22.8</td>
<td>Fault gouge 4 cm</td>
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<td>24.5</td>
<td>Fault gouge 2 cm</td>
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<td>29.0 - 30.2</td>
<td>Intense quartz-sericite alteration 1-2 mm trains of galena/sphalerite at 29.8</td>
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**Core Angles**: 
72° @ 26 m, 86° @ 28 m

| 30.2 - 34.8 | Altered Greenstone: Mottled appearance from variable clay mineral alteration of matrix. "Ghosts" of light grey quartz laminae. Porphyritic texture varies from coarse to fine. Mafics along foliation vary from metallic dark green to light brown (hornblende to biotite). Upper half of section speckled with fine grained apple green alterfelsics. Scattered coarse pyrite clots. Quartz stringers of 12 and 15 cm @ 30.5 m |

**Core Angles**: 
88° @ 38 m, 76° @ 43 m

| 34.8 - 43.6 | Silty Banded Mudstone: Dark grey and light brown alternating lamina. Scattered coarse pyrite cubes throughout. Rare coarse chlorite crystals (xenoliths?). Bands of fine grained pyrite @ 37.6 and 39.2 |
| 43.6 - 47.9 | Intense quartz-sericite alteration 34.8-35.2. Mild quartz-sericite 35.2-37.0. |

| 47.9 | No core recovered. Possible fault. |

**END OF HOLE**
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CORE RECOVERY
Casing no recovery
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1.2
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Casing: Overburden and weathered bedrock

Graphitic Phyllite: Black, massive, recessive grades to light grey with siliceous sections including coarse pyrite clots.

Chloritic Phyllite: Light grey green moderately well foliated. Generally siliceous. No noticeable significant alteration. Scattered pyrite blebs

33.5 - 40.7 - increasing carbon content up to 50%
42.0 - 50.0 - noticeable increase in siliceous bands, up to 13 cm some weak alteration

Core Angles:
70° @ 41m, 85° @ 50m

Carbonaceous chloritic phyllite/silty banded mudstone: fine grained and light tan grey to dark grey in colour
Includes light grey laminae of chlorite and grey siliceous bands
Scattered coarse blebs of pyrite and frequent bull quartz
Minor folding evident @ 58 m with distorted foliation

Core Recovery
Casing no recovery

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APPENDIX II

ARBOR OPTION

DRILL HOLE CROSS SECTIONS

DDH EA 1 - 3
JUDSON BAY EXPLORATION
DEVELOPMENT COMPANY LIMITED

ARBOR OPTION
SECTION 92+00 W
Looking East

SCALE: 1 : 1,000
DATE: Apr./82
DRAWN BY: DBC

HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED
WHITEHORSE OFFICE
HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED

ARKOR OPTION
SECTION 98+00 W
Looking East

SCALE: 1 : 1,000
DATE: Apr./82
DRAWN BY: DBC
ARBOR OPTION
SECTION 68+00 W
Looking East

Hudson Bay Exploration & Development Company Limited
Whitehorse Office

Scale: 1:1,000
Date: Apr. 82
Drawn By: DBC
APPENDIX III

ARBOR OPTION

DIAMOND DRILL RECORDS

ASSAY RESULTS

FOR

DDH EA 1 – 3
**DIAMOND DRILL RECORD**

*Form No. 501-44A-148*

**Hudson Bay Mining and Smelting Co., Limited**

**Date**: March 26, 1982

**Mine**: Arbor Option

**Hole No.**: EA-1

**Co-Ord.**: Lin 92+00'W

**Depth**: 143.2 m

**Section**: 92W

**Sheet No.**: 1 of 1

**Elevation**: 35+25mb

**Direction**: South

**Eagle 20**

**Angle**: 60°

**Waste**: Corrected Dip Tests

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**END OF HOLE**
## DIAMOND DRILL RECORD

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**Sheet No.:** 1 of 1  
**Date:** April 19, 1982  
**Depth:** 59.7 m  
**Co-ord.:** Line 68+00’W, Section 68W  
**Direction:** South  
**Elevation:** 4+50mN  
**Depth:** 6-0°  

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**CORRECTED DIP TESTS**

D. Crowe  
Resident Geologist.
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END OF HOLE
APPENDIX IV

ROBERT W. STROSHEIN

ADDRESS
181 Alsek,
Whitehorse, Yukon Territory.
Y1A 4L8

EDUCATION:
B. Sc. (Geological Engineering) from
University of Saskatchewan
Graduated in 1973

EMPLOYMENT:
1973 - 1982 Hudson Bay Exploration & Development Co. Ltd.
Flin Flon Office 1973 - 1975
Drill Geologist - field supervisor of diamond
drill projects Northern Manitoba and Saskatchewan.

Whitehorse Office
Project Geologist 1975-1980 - field supervisor of
ground mapping, geophysical, geochemical and
prospecting programs in the Yukon Territory.
Included report preparation and assessment.

Senior Exploration Geologist - 1981 - planning,
monitoring and assessing exploration projects
conducted in the Yukon Territory.