



HUDSON BAY EXPLORATION AND DEVELOPMENT

COMPANY LIMITED



ARBOR OPTION

EAGLE - BINGO CLAIMS

ASSESSMENT REPORT 1982

DIAMOND DRILLING

61°47'N 130°15'W

WATSON LAKE MINING DISTRICT

YUKON TERRITORY

R. STROSHEIN

APRIL - 1982

091017

105.914

This report has been examined by
the Geological Evaluation
under Section 53(4) Yukon Act
and is shown to
represent the work of the
of 1971

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory

091014



P. O. Box 269
Watson Lake, Yukon
YOA 1C0

21 April 1982

Your file Votre référence

Our file Notre référence



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,

Patti L. McLeod
Mining Recorder
Watson Lake Mining District

pj
encl.
cc: Regional Geologist

091017

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

100 - 10 Burns Rd.
Whitehorse, Yukon Territory Y1A 4Y9
Telephone (403) 668-4588

April 20, 1982.



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.
4. Duplicate copies of the Diamond Drill Assessment Report 1982.
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	<u>1,775.00</u>
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
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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

091017



Truck Haul:
 A.Carlos Invoice # 027175 753.00

Moving Out:
 E. Caron Diamond Drilling 2,376.00
 1 NQ Bit (Caron Diamond Drilling) 517.50

Total General Charges \$ 10,702.63

Average cost per meter - \$42.81

TOTAL CHARGES FOR EACH DRILL HOLE

DDH EA-1
 General Charges 143.2 meters @ \$42.81/meter 6,130.39
 Caron Invoice Drilling Charge 14,607.50
 Core Boxes 8 @ \$5.70 each 47.20
 Geochemical Analysis 12 @ 7.35 each 88.20

Total Costs EA-1 \$ 20,873.29

DDH EA-2
 General Charges 47.9 meters @ \$42.81/meter 2,050.59
 Caron Invoice Drilling Charge 4,923.50
 Core Boxes 4 @ \$5.90 each 23.60
 Geochemical Analysis 6 @ \$7.35 each 44.10

Total Costs EA-2 \$ 7,041.79

DDH EA-3
 General Charges 59.7 meters @ \$42.81/meter 2,555.75
 Caron Invoice Drilling Charge 7,454.00
 Core Boxes 5 @ 5.90 29.50
 Geochemical Analysis 6 @ \$7.35 each 44.10

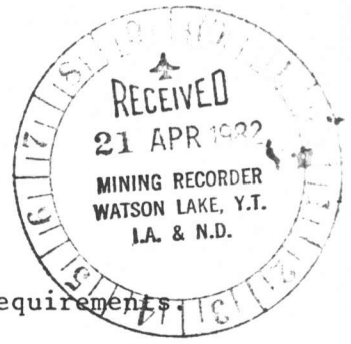
Total Costs EA-3 \$ 10,083.35

Grand Total all Drilling Charges \$ 37,998.43

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,

R. Stroshein
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 (1-2mm) 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.

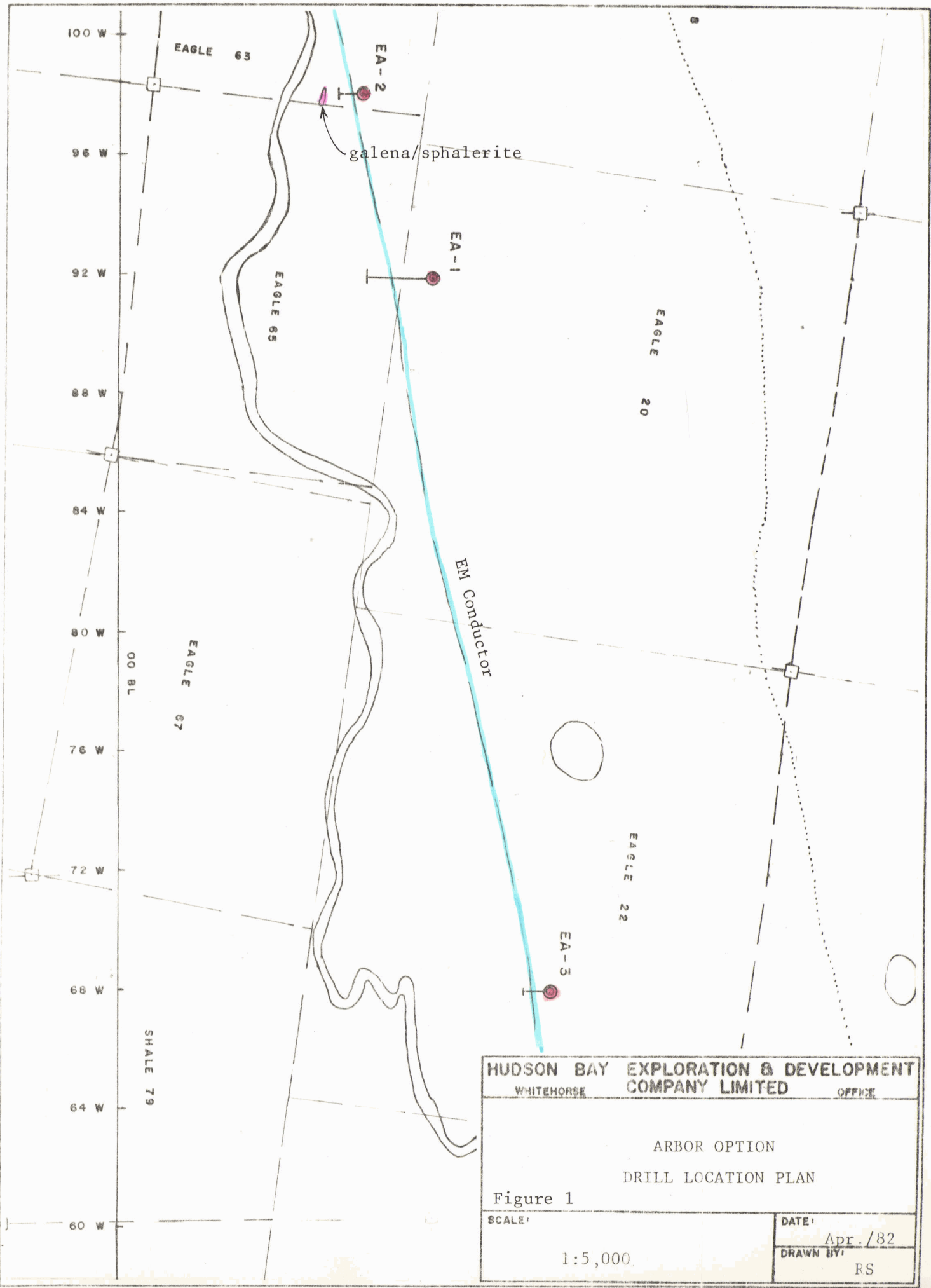
The claims are located north of the Pelly River but are accessible in the winter months by 6 km. cat road from the Robert Campbell Highway west of the Big Campbell Creek.

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.



HUDSON BAY EXPLORATION & DEVELOPMENT
 WHITEHORSE COMPANY LIMITED OFFICE

ARBOR OPTION
 DRILL LOCATION PLAN

Figure 1

SCALE:

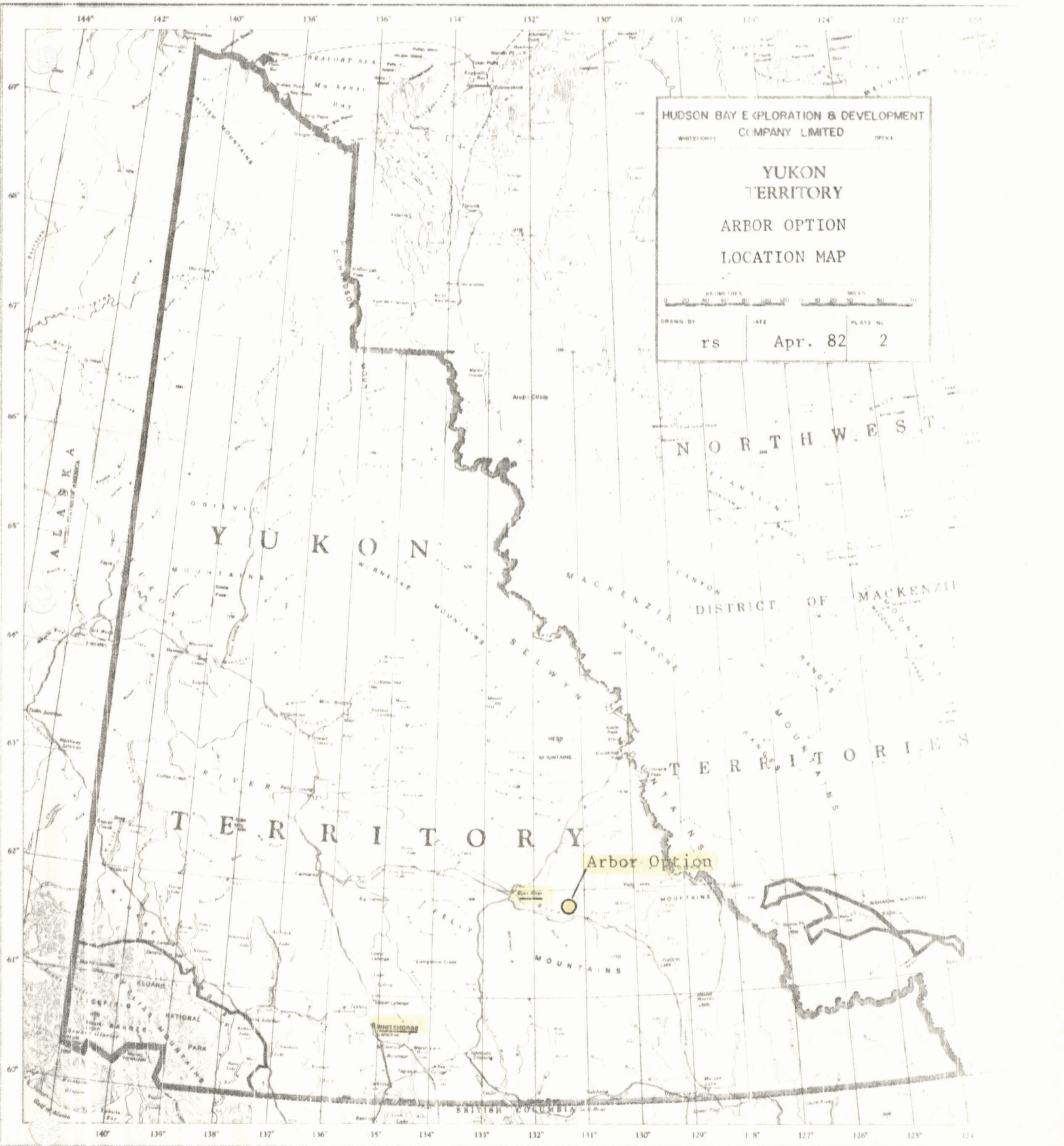
1:5,000

DATE:

Apr./82

DRAWN BY:

RS



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
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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.

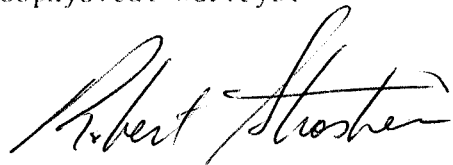
5. CONCLUSIONS AND RECOMMENDATIONS:

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 recognizeable 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

Depth 143.2 m

Grid No.

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 NQ to 72.2 m reduced to BQ thereafter.

DEPTH		DESCRIPTION OF CORE	Page 1 of 2
From	To		
0.0	30.5	Casing: Overburden and weathered graphitic bedrock.	
30.5	72.7	Graphitic Phyllite: Black, massive, soft, extremely incompetent (85% core loss) 71.6 - 72.2 - Quartz laminations @ 3mm sugary quartz 1 cm grains within black groundmass 68.0 - 71.5 - Sandy gouge with narrow 6 cm strongly sheared sections visible	
72.5	72.6	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.	
72.7	105.2	Chloritic Phyllite: Green-grey to brownish grey; latter distinctive for this location. Mottled (porphyritic) with 1 mm blocky feldspar crystals. Quartz laminations typically 2-3mm/2 cm 75.2 - 75.3, 75.4 - 75.5: Yellow Tuff 89.8 - 91.5: Carbonaceous banded (2-3 mm graphitic laminations in lt. green-grey groundmass) to massive graphitic with coarse 2-5 mm grey quartz laminations per 1-2cm. Quartz sericite @ 76.8 - 77.2: strong 77.5 - 78.3: moderate 78.7 - 82.6: strong, weak foliation sulphide, fine intricate 2mm laminar quartz in buff sericite 82.6 - 85.6: moderate 85.6 - 86.2: strong, frequent 6 mm blobs & cubic pyrite in 2 mm to coarse, 2mm quartz bands 86.2 - 89.0: weak Narrow gouge shears @ 75.6, 84.0 Wide gouge shear @ 105.0 - 105.2 Core Angles: 83° @ 81.7, 82° @ 92.0, 73° @ 99.0.	
105.2	143.2	Argillaceous Banded Silty Phyllite: two to 5 mm dark grey bands alternate with 2-7 mm light green-grey to brown beds. Fine particulate/tuffac porphyritic texture persists. Sharp, fault contact. Coarse bull quartz @ 115.6-115.9, 130.3-130.7.	

DEPTH	
From	To

		Clay gouge and negligible core recovery 133.2 - 143.2
	143.2	END OF HOLE
		CORE RECOVERY
		Casing no recovery
0	30.1	
30.1	32.0	.7
32.0	39.3	1.0
39.3	54.6	.3
54.6	63.1	.6
63.1	68.0	.8
68.0	71.0	2.3
71.0	72.2	.5
72.2	74.1	1.3
74.1	75.9	1.2
75.9	77.4	1.7
77.4	78.6	.7
78.6	81.1	1.0
81.1	82.6	1.1
82.6	83.8	.9
83.8	84.4	.7
84.4	86.9	2.1
86.9	88.4	1.2
88.4	89.9	1.2
89.9	91.7	1.5
91.7	93.6	1.2
93.6	95.1	1.3
95.1	96.6	1.2
96.6	99.4	2.4
99.4	100.6	.9
100.6	102.1	1.1
102.1	103.9	1.6
103.9	105.2	.8
105.2	107.0	1.3
107.0	108.5	1.3
108.5	109.7	.5
109.7	111.3	.9
111.3	112.5	.7
112.5	114.3	1.0
114.3	115.5	.9
115.5	116.4	.7
116.4	117.0	.3
117.0	118.3	.5
118.3	120.0	.3
120.0	120.7	.4
120.7	121.9	.1
121.9	122.8	0
122.8	124.1	.1
124.1	124.7	.1
124.7	125.3	.3
125.3	127.4	1.1
127.4	130.5	.3
130.5	133.2	.2

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'W

2 + 50mN

Date Started: March 27, 1982

Finished: March 28, 1982

Logged By: D. Crowe

Drilled By: E. Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 2
From	To		
0.0	13.7	Casing: Overburden and weathered bedrock	
13.7	16.8	Graphitic Phyllite: Black, massive, soft and highly weathered. Incompetent clay	
16.8	30.2	Chloritic phyllite: Light grey green in color. Porphyritic texture (1 mm blocky feldspar crystals) 16.8 - 19.5 - mild quartz-sericite alteration 19.5 - 26.0 - Carbonaceous banding alternating light and dark grey banks of 5-7 mm. Quartz laminae of 2-3 mm also. Gradational decrease of carbon content 22.8 fault gouge 4 cm 24.5 fault gouge 2 cm 29.0 - 30.2 - Intense quartz sericite alteration 1-2 mm trains of galena/sphalerite at 29.8 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 varies 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 laminae Scattered coarse pyrite cubes throughout. Rare coarse chlorite crystals (xenoliths?). Bands of fine grained pyrite @ 37.6 and 39.2 Intense quartz-sericite alteration 34.8- 35.2. Mild quartz-sericite 35.2-37.0.	
43.6	47.9	No core recovered. Possible fault.	
	47.9	END OF HOLE	

DEPTH

DESCRIPTION OF CORE

PAGE 2 of 2

From

To

From	To	DESCRIPTION OF CORE
0.0	13.7	CORE RECOVERY
13.7	15.8	Casing no recovery
15.8	17.4	.9
17.4	19.5	.7
19.5	21.0	.9
21.0	22.6	.9
22.6	24.4	.6
24.4	26.2	.3
26.2	29.0	1.5
29.0	30.5	.9
30.5	32.6	1.3
32.6	34.4	1.5
34.4	35.1	1.7
35.1	37.5	.6
37.5	39.3	1.2
39.3	40.2	1.3
40.2	41.8	.5
41.8	43.0	.6
43.0	43.6	1.0
43.6	46.0	.7
46.0	47.9	0.0
		.1

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim EAGLE 22

Location ARBOR OPTION

Mining Division Watson Lake

Hole Nº EA-3

Angle: -60°

Direction: Grid South

Depth 59.7 m

Grid Nº

Co-Ordinates Line 68+00'W
4 +50mN

Date Started: March 30, 1982

Finished: March 31, 1982

Logged By: D. Crowe

Drilled By: E. Caron Diamond Drilling

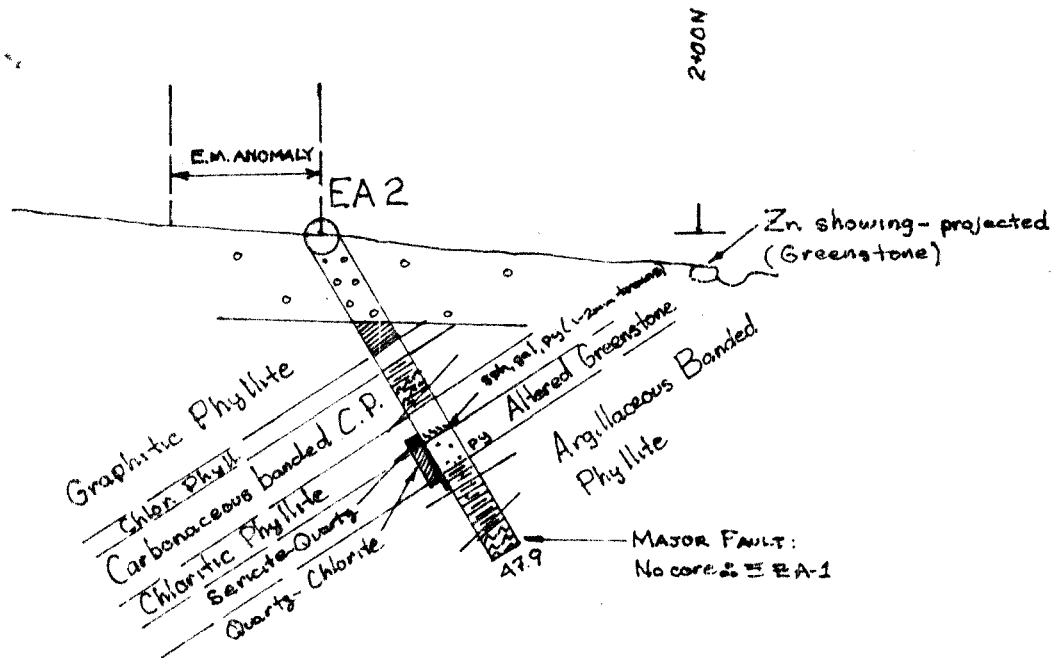
DEPTH		DESCRIPTION OF CORE
From	To	
0.0	24.4	Casing: Overburden and weathered bedrock
24.4	35.8	Graphitic Phyllite: Black, massive, recessive grades to light grey with siliceous sections including coarse pyrite clots.
35.8	57.3	Chloritic Phyllite: light grey green moderately well foliated. Generally 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
57.3	59.7	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
	59.7	END OF HOLE
		CORE RECOVERY
0.0	24.4	Casing no recovery
24.4	25.3	.7
25.3	26.5	1.0
26.5	29.6	1.0
29.6	32.6	.3
32.6	35.7	.55
35.7	38.4	.8
38.4	39.6	1.0
39.6	41.5	1.6
41.5	43.3	1.0
43.3	45.1	1.5
45.1	46.6	.8
46.6	49.4	2.5
49.4	50.6	1.1
50.6	53.6	2.9
53.6	56.7	2.5
56.7	59.7	3.0

APPENDIX II

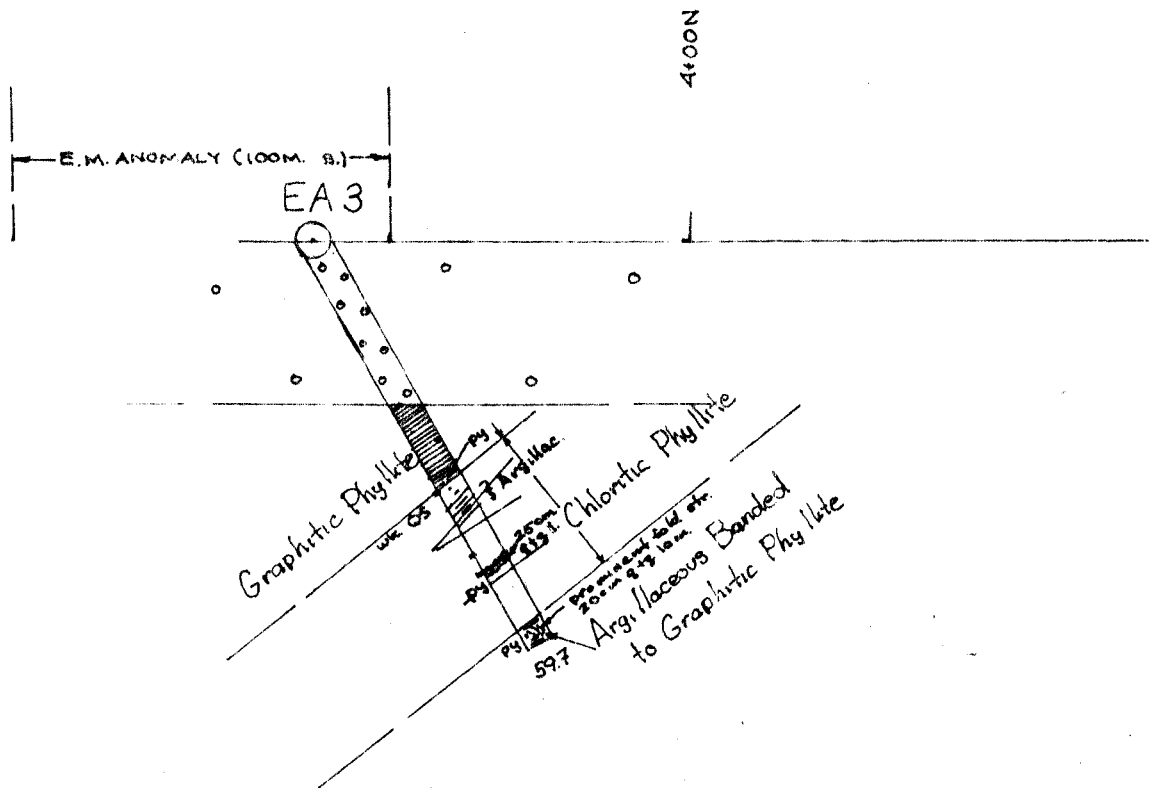
ARBOR OPTION

DRILL HOLE CROSS SECTIONS

DDH EA 1 - 3



HUDSON BAY EXPLORATION & DEVELOPMENT	
WHITEHORSE	COMPANY LIMITED OFFICE
ARBOR OPTION	
SECTION 98+00 W	
Looking East	
SCALE:	DATE:
1 : 1,000	Apr. / 82
	DRAWN BY:
	DBC



HUDSON BAY EXPLORATION & DEVELOPMENT	
WHITEHORSE	COMPANY LIMITED
OFFICE	
ARBOR OPTION	
SECTION 68+00 W	
Looking East	
SCALE:	DATE:
1 : 1,000	Apr. /82
	DRAWN BY:
	DBC

APPENDIX III

ARBOR OPTION

DIAMOND DRILL RECORDS

ASSAY RESULTS

FOR

DDH EA 1 - 3

DIAMOND DRILL RECORD

Date March 26 1982

Mine Arbor Option Depth 143.2 m

Hole No. EA-1 Co-ord. Lin 92+00'W Section 92W

Sheet No. 1 of 1 Direction South

~~Label~~ EAGLE 20 Elevation _____ Angle -60°

D. Crowe Resident Geologist.

Geochemical ASSAY ppm

WIDTH X ASSAY

AVERAGES

DEPTH (m)	NUMBER	WIDTH	Geochemical ASSAY ppm					WIDTH X ASSAY					AVERAGES							
			AU	AG	CU	ZN	PB	WIDTH	AU	AG	CU	ZN	PB							
0.0 - 30.5	Casing	30.5																		
30.5 - 70.0	Waste	39.5																		
70.0 - 72.0	72492	2.0		<.1	26	50	4													
72.0 - 81.0	Waste	9.0																		
81.0 - 83.0	72493	2.0		<.1	28	105	2													
83.0 - 85.0	Waste	2.0																		
85.0 - 87.0	72494	2.0		<.1	40	100	6													
87.0 - 89.0	Waste	2.0																		
89.0 - 91.0	72495	2.0		.2	32	120	6													
91.0 - 93.0	Waste	2.0																		
93.0 - 95.0	72496	2.0		.3	42	170	8													
95.0 - 98.0	Waste	3.0																		
98.0 - 100.0	72497	2.0		.1	52	100	4													
100.0 - 103.0	Waste	3.0																		
103.0 - 105.0	72498	2.0		.1	54	130	2													
105.0 - 108.0	Waste	3.0																		
108.0 - 110.0	72499	2.0		.5	38	80	12													
110.0 - 113.0	Waste	3.0																		
113.0 - 115.0	72500	2.0		.1	48	100	3													
115.0 - 118.0	Waste	3.0																		
118.0 - 120.0	72101	2.0		.3	38	120	8													
120.0 - 123.0	Waste	3.0																		
123.0 - 125.0	72102	2.0		.4	28	70	20													
125.0 - 128.0	Waste	3.0																		
128.0 - 130.0	72103	2.0		<.1	28	90	4													
130.0 - 143.2	Waste	13.2																		

END OF HOLE

