ASSESSMENT REPORT

DIAMOND DRILLING PROGRAM

JUNE - AUGUST, 1979

CAB CLAIMS

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

N.T.S. 105F/14

by

G. E. BIDWELL - B.A.

OCTOBER 24, 1979

RECEIVED
26 OCT 1979
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

Office of the Supervising Mining Recorder
NOV 7 1979
WHITEHORSE
Yukon Territory

091133

Government of Canada / Gouvernement du Canada

MEMORANDUM **NOTE DE SERVICE**

Office of the Supervising Mining Recorder
NOV 7 1979
WHITEHORSE
Yukon Territory

CONFIDENTIAL

TO / À: Supervising Mining Recorder

FROM / DE: Mining Recorder - Whitehorse

SECURITY - CLASSIFICATION / DE SÉCURITÉ:

OUR FILE - N/RÉFÉRENCE: 340-17-6

YOUR FILE - V/RÉFÉRENCE:

DATE: 7 November 1979

SUBJECT / OBJET: Herewith your copy of Diamond Drill Logs and other data submitted in support of assessment work.

105-F-4	1)	Hudson Bay Exploration and Development Co. Ltd.	CAB 8,25,27
	2)	" " " " " " "	CAB 5,7,8,10,25

Certificates of Work will be forwarded when completed.

B.E. Sias

c.c. Geology Section
Attn: M. Marchand

02/133

105-F-4

FOX MOUNTAIN AREA

2001 ¢

CAB 8 Y25393	3 HOLES	845 FT.
CAB 25 Y25514	2 HOLES	306 FT
CAB 27 Y25516	2 HOLES	850 FT.

HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

JUNE/JULY 1979

105-F-4

FOX MOUNTAIN ~~AREA~~.

3283'

CAB 5	Y25390	1 HOLE	- 437 FT
CAB 7	Y25392	1	- 527 FT
CAB 8	Y25393	3 -	- 878 FT
CAB 10	Y25395	2 -	789 FT
CAB 25	Y25514	2 -	662 FT

HUDSON BAY EXPLORATION & DEVELOPMENT CO LTD

JULY/AUG 1979

TABLE OF CONTENTS

	Page
Introduction and Summary	one
Location and Access	one
Personnel	one
Claim Ownership	one
Diamond Drilling Program	one
Geology	three
Conclusions	three

APPENDICES

Appendix A - Diamond Drill Logs

Appendix B - Diamond Drill Assays

Appendix C - Review of Expenditures

Appejdix D - Qualifications of Supervision

PLATES

Claim Map	four
Diamond Drill Plan	folder

Introduction and Summary

The Cab mineral claims (1-23) were staked by Peter Risby of Ross River in June 1968 and optioned almost immediately to Atlas Explorations Ltd. In 1968-69 limited geolocal mapping, geochemical soil sampling and sampling of the mineralized zones was carried out. In 1971 the title of the claims was transferred and registered in the names of Risby Tungsten Mines Ltd. and eight holes totalling 3,563 feet of diamond drilling was done. In 1977 and 1978 Risby Tungsten carried out trenching and sampling.

In 1979 the property was optioned to Hudson Bay Exploration and Development Company Limited who carried out 5,334 feet of BQ diamond drilling in 16 holes this past summer. The drilling was contracted out to E. Caron Diamond Drilling Limited of Whitehorse, Y. T.

Location and Access

The Cab claims are situated at 61°52'N, 133°22'W, on map sheet 105F/14 in the Whitehorse Mining District, Yukon Territory. The property is 36 air miles west of Ross River, 4 miles south of Fox Mountain and 12 miles northwest of the Canol Road. Access is presently by helicopter or by fixed-wing aircraft to a small lake 1½ miles north of the main showings but cat access is feasible from the Canol Road. Camps on both Dolly Creek and Varden Creek were used in the 1979 program.

Personnel

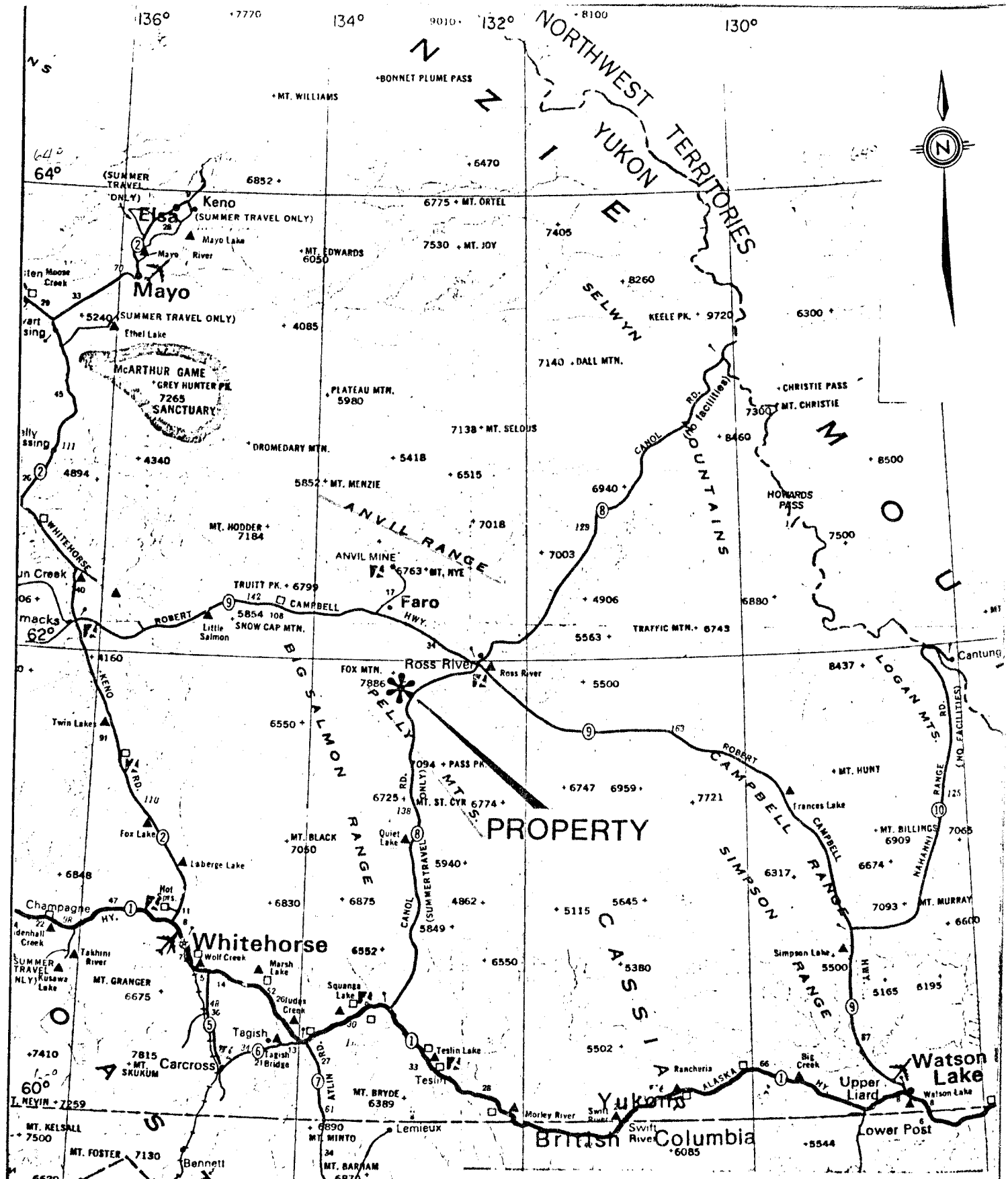
The drilling program was contracted by E. Caron Diamond Drilling Limited with head office in Whitehorse, Yukon Territory. Four qualified drillers were employed. Mr. Choong B. Ko of Hudson Bay Exploration and Development Company Limited was the drill geologist. Mr. G. E. Bidwell, Resident Geologist, Whitehorse supervised the program. The summary of qualification of Mr. Ko and Mr. Bidwell are included in the report.

Claim Ownership

All the Cab mineral claims, 1-56, 59-84, 89-102 and 105-136 are registered in the Name of Hudson Bay Exploration and Development Company Limited.

Diamond Drilling Program

The diamond drilling program commenced June 18 and was completed on August 14, 1979. The equipment was ferried in by helicopter from the



RISBY TUNGSTEN MINES LTD.

LOCATION MAP

MILES 50 0 50 MILES

KILOMETERS 50 0 50 100 KILOMETERS

12 JANUARY 1978

WAYLAND S. READ P. ENG CONSULTING GEOLOGIST
COBBLE HILL, B.C., CANADA

Canol Road and removed the same way.

During the drilling period 16 holes were completed for a total of 5334 feet. The locations of the holes are shown on the drill plan included with the report. The core was left on the property and is stored in trays and stacked at the camps along with most of the 1971 drill core.

Geology

The claims are located on the contact area of a Cretaceous quartz monzonite stock and a Lower Cambrian sedimentary sequence of argillite, limestone and siltstone. At or close to the intrusive contact the limestone units have been recrystallized to diopside skarns containing minor pyrrhotite, garnet, scheelite, pyrite and molybdenite.

The sedimentary package consists of quartz biotite diopside schists interlayered with essentially two diopside garnet skarn horizons. Bedding parallels the intrusive contact and the lower skarn in the sequence is usual at or within a few metres of the intrusive. The upper skarn is approximately 20 metres higher in the package.

The scheelite mineralization is dissiminated or as vein fillings in massive diopside garnet skarn and is generally associated with pyrrhotite and often actinolite and quartz.

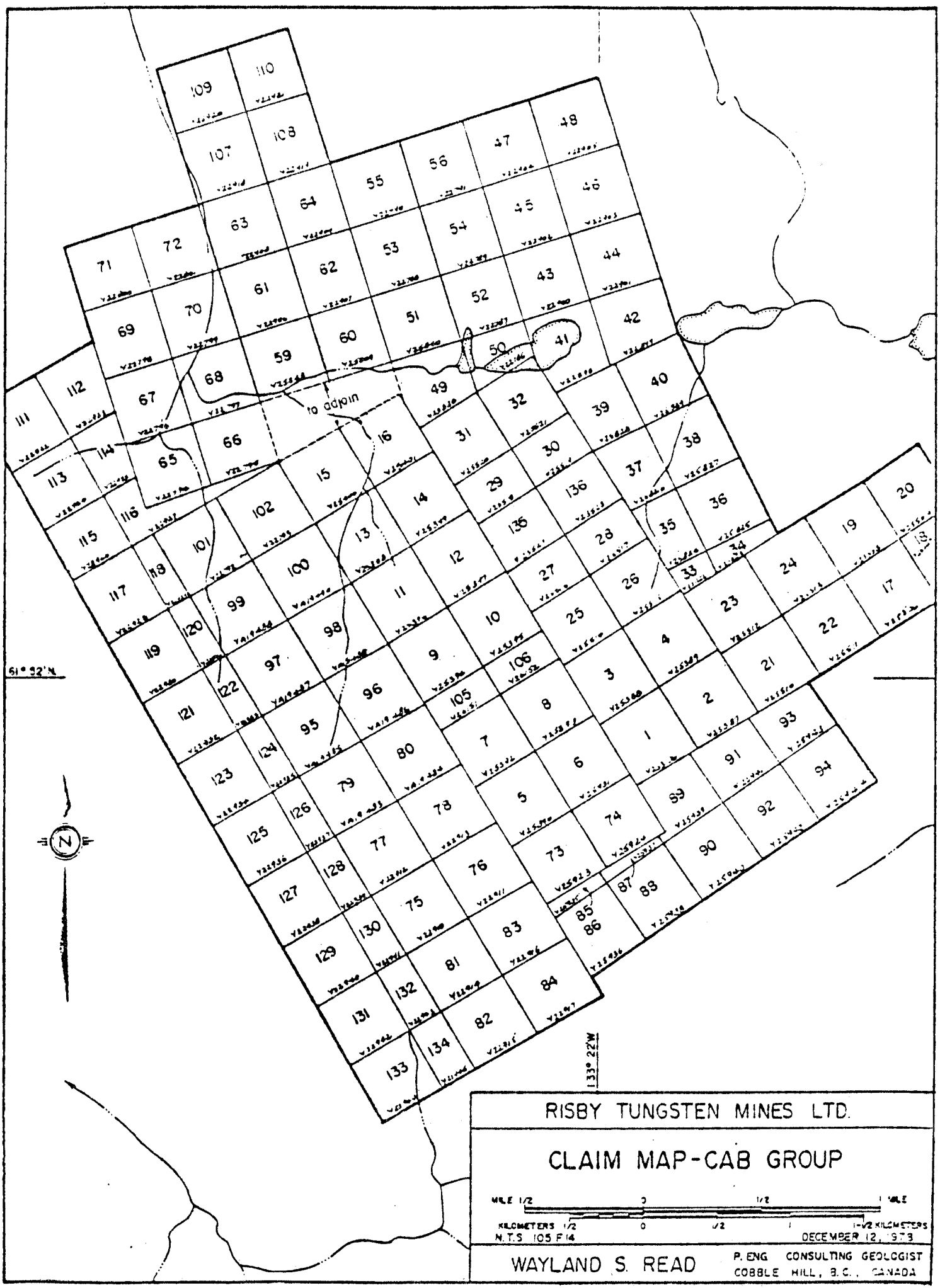
Conclusions

The drilling program on the #2 zone indicated that the skarn horizons are generally predictable both as to location and width but that the scheelite mineralization is erratic in distribution. Further drilling is required to fully evaluate the deposit.

Three holes were drilled on the #1 zone with inconclusive results. Detailed surface mapping in the area reveals a complex structured picture and additional mapping will be required before more drilling is done.

G. E. Bidwell,
Resident Geologist.

October 24, 1979.


to adjoin
61° 52'N
133° 22'W
N
RISBY TUNGSTEN MINES LTD.
CLAIM MAP-CAB GROUP
MILE 1/2 0 1/2 1 MILE
KILOMETERS 1/2 0 1/2 1 1-1/2 KILOMETERS
N.T.S 105 F 14
DECEMBER 12, 1973
WAYLAND S. READ
P. ENG CONSULTING GEOLOGIST
COBBLE HILL, B.C., CANADA

APPENDIX A

DIAMOND DRILL LOGS

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB group (Risby) Location: Dolly Creek (Fox Creek) Y.T.
$61^{o}52'$, $133^{o}22'$ N.T.S. 105F-14

Mining Division NO. 2 ZONE

Hole Nº. 9 Angle: -50° Direction: 224°

Depth: 118.0 m Grid Nº. Co-Ordinates: 4+25.3N, 12+53W

Date Started: June 24/79 Finished: June 26/79 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0	1.8m	Casing
1.8	77.2m	Quartz-Biotite -(Chlorite) Schist) light brownish-greenish grey, fine grained, laminated (biotite Laminae - 1mm - 30mm wide), intercalated with garnet (antradite) - diopside skarn bands containing bright pale blue fluorescing minor specks of scheelite mineralization, locally minor erratic quartz-carbonate veins. 61.6 - 61.8m : quartz monzonite dyke Core angle: 80° at 8.2m, 75° at 20.4m, 80° at 35.7m, 80° at 50.0m 80° at 61.1m
77.2	82.3	Upper Garnet (Andradite - Grossularite) - Diopside skarn Zone: light brown-green, fine grained, massive, highly silicified, dominant diopside, scattered to disseminated bright pale blue fluorescing minor specks of scheelite mineralization throughout the zone, minor pyrrhotite + pyrite min. in places, locally erratic minor quartz-carbonate veins.
82.3	85.0	Quartz-Biotite Schist: dark brownish gray to light gray, fine grained, laminated.
85.0	86.4	Garnet (Andradite) - Diopside Skarn Zone: as above
86.4	91.0	Quartz-Biotite -(Chlorite) Schist: brown to light greenish gray, fine grained, laminated, predominant biotite laminae
91.0	97.7	Biotite Granite - (Gneiss): light brownish gray, medium grained, subhedral to granular, slightly foliated.
97.7	100.7	Lower Garnet (Andradite-Grossularite)- Diopside Skarn Zone: light brown-green, fine grained, massive, silicified, scattered to disseminated bright pale blue & bright yellowish white fluorescing minor specks of scheelite associated with scattered fine grained pyrrhotite (2-3%) min. throughout the section. 97.7 - 99.1 m x 100.0-100.7m: disseminated minor specks of scheelite with 5-7% fine grained pyrrhotite & minor pyrite min.
100.7	102.7	Quartz - Biotite Schist: as above
102.7	106.6	Garnet (Andradite) - Diopside Skarn Zone: light brown-green, fine grained, massive, silicified, dominant diopside, locally irregular minor quartz veins, scattered minor specks of scheelite with 2-4% pyrrhotite.
106.6	115.6	Quartz-Biotite Monzonite: light greenish gray, medium to coarse grained, granular to slightly foliated, minor pyrite & molybdenite mineralization in the fractures 106.6-108.9m : greinized zone, large crystals of apatite. 108.2-108.8m : minor molybdenite & pyrite min. in fractures

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB CLAIMS (RISBY) Location:

Mining Division

Hole Nº. 9 Page 2 Angle: Direction:

Depth: Grid Nº. Co-Ordinates:

Date Started: Finished: Logged By:

Drilled By:

DEPTH		DESCRIPTION OF CORE
From	To	
115.6	118.0	Porphyritic Biotite Granite (Gneiss): dark brownish gray, porphyritic (1-3mm feldspar phenocrysts), slightly foliated.
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°52', 133°22', N.T.6. 105-F-14 NO. 2 ZONE

Mining Division

Hole Nº. 10 Angle: -90° Direction:

Depth: 141.1m Grid Nº. Co-Ordinates: 4+25.3N, 12+53W

Date Started: June 26/79 Finished: June 29/79 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	1.8m	Casing
1.8	93.6	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated, predominant biotite laminae (1mm-40.0mm wide), locally interlacated with narrow garnet-diopside skarn bands, which contain bright pale blue fluorescing minor specks of scheelite, locally minor erratic quartz-carbonate segregations paralleled to the schistosity. Core angle: 54° at 3.0m, 55° at 18.1m, 45° at 34.4m, 55° at 55.8m, 45° at 69.5m, 50° at 87.8m
93.6	103.9	Upper Garnet (Andradite) - Diopside Skarn Zone: pale pinkish brown to light green, fine grained, massive, highly silicified, locally minor quartz-carbonate veins, associated with scattered to disseminated minor bright pale blue-white fluorescing scheelite specks & scattered minor pyrrhotite (1-2%) min. 98.2 - 98.5m: interlayered quartz-biotite (chlorite) schist.
103.9	114.9	Quartz-Biotite-(Chlorite) Schist: as above
114.9	125.1	Lower Garnet (Andradite) - Diopside Skarn Zone: as above locally interlayered minor biotite laminae, higher grade of scheelite min. than upper skarn zone. 115.7-117.8 m: scattered to disseminated pyrrhotite (5-10%), pyrite (1%) & trace amounts of chalcopyrite min. in skarn. (116.7-117.8m: 20-25% pyrrhotite & minor chalcopyrite associated with brecciated quartz)
125.1	141.1	Quartz-Biotite Monzonite: light greenish gray, medium grained, granular to slightly foliated, locally weathered.
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB CLAIM GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°25', 133° 22', N.T.S. 105F-14
NO. 2 ZONE

Mining Division

Hole Nº. 11 Angle: -50° Direction: 224°

Depth: 71.3m Grid Nº. Co-Ordinates: 4+ 12N, 11+41.7W

Date Started: June 30/79 Finished: July 2/&9 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	6.1m	Casing
6.1	11.8	Porphyritic Biotite Granite Dyke: gray to dark gray, medium grained, porphyritic (1mm-4mm subhedral feldspar phenocrysts in fine grained quartz & biotite matrix), slightly foliated.
11.8	12.4	Quartz-Biotite-(Chlorite) Schist: light brownish-greenish gray, fine grained, laminated (1-6.0cm biotite bands).
12.4	13.1	Porphyritic Biotite Granite Dyke: as above.
13.1	27.1	Quartz-Biotite (Chlorite) Schist: light greenish gray to brown, fine grained, laminated (0.5cm - 4.0 cm wide biotite laminae), siliceous, locally intercalated with minor garnet-diopside skarn bands, erratic minor quartz-carbonate veins in places. 16.8m-17.0m : scattered minor bright pale blue fluorescing scheelite specks in skarn band. Core angle: 75° at 25.9m
27.1	37.3	Porphyritic Biotite Granite Dyke; as above
37.3	39.2	Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, massive, minor porphyritic biotite granite remnants in places, highly silicified, scattered minor specks of scheelite, locally minor irregular quartz-carbonate veins.
39.2	40.8	Quartz-Biotite Schist: dark brownish gray, fine grained, schistose silicified, scattered pyrite min. Core Angle: 77° at 40.2 m.
40.8	45.7	Upper Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, silicified, locally minor quartz-carbonate veins, scattered to disseminate minor specks of scheelite min. 41.1-42.2m: 1.5 - 2.0% scheelite 45.0-45.6m: scattered minor pyrrhotite min.
45.7	50.3	Quartz-Biotite (Chlorite)Schist; light brownish-greenish gray, fine grained, laminated, locally erratic minor quartz-carbonate veins, scattered minor pyrrhotite min.
50.3	52.9	Quartz Monzonite Dyke: light buff-gray, medium grained, granular to slightly foliated, locally brecciated & weathered.
52.9	57.5	Quartz-Biotite - (Chlorite) Schist: as above Core angle: 80° at 55.5 m
57.5	64.6	Lower Garnet (Andradite)-Diopside Skarn Zone: same as upper skarn Zone

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP Location:

Mining Division

Hole Nº. 11 page 2 Angle: Direction:

Depth: Grid Nº. Co-Ordinates:

Date Started: Finished: Logged By:

Drilled By:

DEPTH From	DEPTH To	DESCRIPTION OF CORE
57.5 continued	64.6	57.5-59.5M: 1.5-2% scheelite 59.5m-59.9m: fine grained massive pyrrhotite (70-80%) min. & minor pyrite associated with minor quart gragments (eyes) actinolite 60.6-61.1m: 1.5-2% scheelite 61.1-63.6m: Quartz-biotite-(chlorite) schist
64.6	71.3	Quartz-Biotite Monzonite: light grey, medium grained, granular, very sharp contact relationship with the lower skarn zone, minor biotite & amphibole.
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°52', 133° 22' N.T.S. 105-F-14

Mining Division

NO 2 ZONE

Hole Nº. 12 Angle: -90° Direction:

Depth: 94.5m Grid Nº. Co-Ordinates: 4+12N, 11+41.7W

Date Started: July 2/79 Finished: July 5/79 Logged By: C.Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	7.0m	Casing
7.0	9.1	Altered Limestone (Marble): light buff - light greenish gray, fine grained, layered, skarnized with garnet (andradite) & diopside. 8.4-8.7m : scattered minor specks of scheelite in skarn bands Core Angle: 72° at 7.9 m
9.1	12.2	Quartz-Biotite-(Chlorite) Schist: light brownish-greenish gray, fine grained, laminated, locally intercalated with minor garnet-diopside bands. 9.1-9.5 m: porphyritic biotite granite dyke
12.2	13.6	Altered Limestone (Marble) : as above
13.6	16.5	Quartz-Biotite-(Chlorite) Schist: as above 13.9-14.0m : scattered minor scheelite specks in skarn Core angle: 60° at 14.6 m.
16.5	22.6	Porphyritic Biotite Granite Dyke: gray, medium grained (1.5-5 mm in diameter subhedral feldspar), slightly foliated.
22.6	29.6	Quartz-Biotite-(Chlorite) Schist: light brownish gray, fine grained, laminated, locally erratic minor quartz-carbonate veins. Core angle: 63° at 26.5 m
29.6	37.2	Garnet (Andradite) - Diopside Skarn Zone: light brown-green, fine grained, silicified, massive, consisting of same amounts of garnet & diopside (even distribution), locally minor quartz-carbonate veins, scattered to disseminated minor specks of scheelite min. 30.1 - 30.6 m : shear zone 30.6 - 31.9 m : 0.5 - 1.0% scheelite 35.4 - 35.7 m : 1.0 - 1.5% scheelite
37.2	38.2	Quartz Monsonite Dyke: light gray, medium grained granular.
38.2	41.3	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated, intercalated with minor specks of scheelite bearing garnet-diopside skarn bands. Core angle: 77° at 39.0 m.
41.3	56.2	Upper Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, massive, silicified, locally interlayered minor quartz-biotite schist, scattered to disseminated bright pale blue-white fluorescing minor scheelite specks, locally minor pyrrhotite & pyrite min. 43.1-44.3m : quartz monzonite dyke 44.3-44.8m : 0.5-1.0% scheelite 53.0-53.8m : 1 - 2% scheelite & 2% pyrrhotite 56.1-56.2m : 1 - 1.5% scheelite & 10% pyrrhotite

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB CLAIMS Location:

Mining Division

Hole Nº. 12 page 2 Angle: Direction:

Depth: Grid Nº. Co-Ordinates:

Date Started: Finished: Logged By:

Drilled By:

DEPTH From	DEPTH To	DESCRIPTION OF CORE
56.2	71.6	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated, locally sheared (65.5-66.1m), minor quartz-carbonate segregations paralleled to the schistosity in places. 61.3-62.0m : quartz monzonite dyke 69.2-69.8m : minor scheelite specks bearing skarn band Core Angle: 58° at 58.8m, 60° at 69.0m
71.6	79.9	Lower Garnet (Andradite) - Diopside Skarn Zone: same as upper skarn zone, scattered minor fine grained pyrrhotite (3-4%) & minor pyrite. 71.9-75.0m: disseminated minor specks scheelite (1-1.5%) 75.3-77.3m: quartz-biotite-(chlorite) schist 78.6-78.9m: 2.5% scheelite (1mm-7.0mm diameter specks) & 60-65% pyrrhotite.
79.9	94.5	Quartz-Biotite Monzonite: light gray, medium grained, granular to slightly foliated, sharp contact with the Lower Skarn Zone, minor biotite.
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°52', 133° 22' N.T.S. 105F-14

Mining Division

NO. 2 ZONE

Hole Nº. 13 Angle: -50° Direction: 224°

Depth: 12.2m Grid Nº. Co-Ordinates: 4+30.5N, 10-38.6W

Date Started: July 6/79 Finished: July 7/79 Logged By: C. Ko

Drilled By: CARON DIAMOND DRILLING CO.

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	6.7 m	Casing
6.7	12.2	Quartz-Biotite-(Chlorite) Schist:
		* ABANDONED THE HOLE DUE TO THE BAD CONDITION

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°52', 133° 22' N.T.X. 105F-14

Mining Division

NO. 2 ZONE

Hole Nº. 14 Angle: -90° Direction:

Depth: 93.3 m Grid Nº. Co-Ordinates: 4+30.5N 10+38.6W

Date Started: July 7/79 Finished: July 10/79 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	18.6m	Casing
18.6	26.2	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated (2.0mm-40.0mm wide biotite laminae), locally intercalated with scattered minor specks of scheelite bearing thin skarn bands 22.9-23.2 m: Fine grained pyrrhotite (2%) filling the fractures & minor specks of scheelite in skarn band. Core angle: 55° at 21.6m
26.2	27.8	Quartz-Monzonite Dyke: milky gray, medium grained (1-2.5mm subhedral feldspar) granular, moderately weathered.
27.8	29.6	Quartz-Biotite Schist: dark brownish gray, fine grained, laminated
29.6	33.1	Quartz- biotite Monzonite Dyke: light gray, medium grained (1.5-3.0 mm subhedral feldspar), granular to slightly foliated, minor biotite (3-5%). 29.9-30.0 m : quartz-biotite schist remnant
33.1	37.3	Quartz-Biotite-(Chlorite) Schist: as above core angle: 57° at 36.1m
37.3	49.8	Upper Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, massive silicified, locally minor interlayered quartz-biotite-(chlorite) schist sections, irregular minor quartz-carbonate veins in parts, scattered to disseminated bright pale blue-white fluorescing minor specks of scheelite min. throughout the zone, scattered minor pyrrhotite & pyrite min. 37.9-39.2 m, 39.9-40.2m & 42.8-43.1m: 1-1.5% scheelite with 2% pyrrhotite. 43.1-44.2m: 1.0% scheelite with 1.-1.5% pyrrhotite 46.5-47.9m: 0.5-1.0% scheelite with 1% pyrrhotite & minor pyrite 44.3 - 45.5m: quartz-biotite (chlorite) schist section.
49.8	68.4	Quartz-Biotite Schist: brownish gray, fine grained, laminated, locally erratic minor quartz-carbonate veins Core angle: 58° at 52.3 m, 63° at 66.3 m
68.4	72.1	Lower Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, silicified, 35% garnet, irregular minor calcite veins scattered to disseminated minor specks of scheelite. 69.2-70.2 m: 1% scheelite & 5-7% pyrrhotite & minor pyrite & chalcopyrite. 70.7-71.7m : 0.5-1.0% scheelite with minor pyrrhotite 71.7-72.1m : 1-1.5% scheelite with 5-6% pyrrhotite & minor pyrite
72.1	73.5	Quartz-Biotite-(Chlorite) Schist: brownish-greenish gray, fine grained, laminated, intercalated with minor specks of scheelite bearing skarn bands.

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY) Location:

Mining Division

Hole Nº. 14 page 2 Angle: Direction:

Depth: Grid Nº. Co-Ordinates:

Date Started: Finished: Logged By:

Drilled By:

DEPTH		DESCRIPTION OF CORE
From	To	
73.5	75.2	Quartz-Biotite Monzonite Dyke: as above
75.2	80.5	Quartz-Biotite-(Chlorite) Schist: as above, minor pyrrhotite in fractures Core angle: 65° at 79.9 m
80.5	93.3	Quartz-Biotite Monzonite: light gray, medium grained, granular, minor amphibole, locally minor quartz-carbonate veins
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Dolly Creek (Fox Creek) Y.T. 61°52', 133° 22'. N.T.S. 105F-14

Mining Division

NO. 2 ZONE

Hole Nº. 15 Angle: -50° Direction: 224°

Depth: 91.7m Grid Nº. Co-Ordinates: 4+00N, 9+22W

Date Started: July 12/79 Finished: July 14/79 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	6.1m	Casing
6.1	7.6	Porphyritic Biotite Granite Dyke: dark gray, medium grained, porphyritic (1.0 mm - 4.0 mm in diameter subhedral to euhedral feldspar phenocrysts) & slightly foliated
7.7	30.2	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated (3.0 mm - 25.0 mm biotite laminae) locally irregular minor quartz-carbonate veins, intercalated with minor garnet-diopside skarn bands containing few specks of scheelite, scattered minor pyrrhotite min. Core angle: 90° at 14.2m, 78° at 21.3m
30.2	33.2	Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, silicified, locally interlayered minor quartz-biotite-(chlorite) schist sections, scattered minor bright pale blue fluorescing scheelite specks.
33.2	35.9	Quartz-Biotite-(Chlorite) Schist: as above 34.7-35.0 m : disseminated fine grained pyrite (2%) in brecciated quartz-carbonated vein
35.9	39.3	Upper Garnet (Andradite)-Diopside Skarn Zone: light brown- green, fine grained, massive, silicified, locally interlayered minor quartz-biotite-(chlorite) schist sections, irregular minor quartz-carbonate vein, scattered minor specks of scheelite.
39.3	42.3	Quartz-Biotite-(Chlorite) Schist: light brownish-greenish gray, fine grained, laminated, locally minor quartz-carbonate segegations paralleled to the schistosity.
42.3	47.2	Quartz Monzonite Dyke : light gray, medium grained (2-4.0 mm subhedra feldspar phenocrysts), granular, weathered, minor pyrite min. in fractures.
47.2	62.6	Quartz-Biotite-(Chlorite) Schist: as above, locally minor few specks of scheelite bearing thin skarn bands. 47.2-53.9 m: extremely weathered (kaolinized) 52.5-52.9 m: quartz-monzonite dyke 54.3-54.5 m: scattered minor specks of scheelite in skarn band 56.6-58.5 m: weathered quartz-monzonite dyke Core angle: 60° at 60.2m
62.6	64.9	Lower Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, silicified, minor erratic quartz-carbonate veins, scattered minor specks of scheelite min. & minor pyrite, pyrrhotite min. 64.5-64.9 m: heavily weathered.

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB Group (Risby) Location:

Mining Division

Hole Nº. 15 page 2 Angle: Direction:

Depth: Grid Nº. Co-Ordinates:

Date Started: Finished: Logged By:

Drilled By:

DEPTH From	DEPTH To	DESCRIPTION OF CORE
64.9	66.8	Sericite -Carbonate Schist: light gray, fine grained, schistose moderately weathered, minor pyrite min. in parts minor quartz-carbonate erratic veins.
66.8	73.9	Quartz Monzonite Dyke: as above 72.1-72.5m: quartz-biotite-(chlorite) schist remnant
73.9	91.7	Quartz-Biotite Monzonite: light gray, medium grained (2.0-4.0 mm in diameter subhedral feldspar phenocrysts), granular, minor biotite & amphibole, locally scattered minor pyrite min. 81.9-82.0m: 20% pyrrhotite in minor quartz vein.
END OF HOLE		

FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB GROUP (RISBY)

Location: Varden Creek (Fox Creek) Y.T. 61°52', 133°22' N.T.S. 105F-14 NO. 2 ZONE

Mining Division

Hole Nº. 16 Angle: -90° Direction:

Depth: 113.4 m Grid Nº. Co-Ordinates: 3+64N, 14+74W

Date Started: July 15/79 Finished: July 19/79 Logged By: C. Ko

Drilled By: Caron Diamond Drilling Co.

DEPTH From	DEPTH To	DESCRIPTION OF CORE
0.0	4.6 m	Casing
4.6	67.0	Quartz-Biotite-(Chlorite) Schist: light greenish-brownish gray, fine grained, laminated, minor quartz-carbonate segregations paralleled to the schistosity, locally intercalated with minor scheelite specks bearing thin skarn bands. 13.2-13.7m: &24.3-25.4m: interlayered minor limestone band 64.6-64.9m: 0.2% scheelite with 1% pyrrhotite
67.0	72.3	Sericite-Chlorite Schist: greenish gray to dark gray, fine grained, silicified, sheared, locally scattered minor granulated pyrite min. 67.5-68.1m: shear zone with clay 70.0-70.3 : minor graphite along the shear Core Angle: 65° at 71.6m
72.3	82.4	Upper Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, massive, silicified, scattered to disseminated minor specks of bright pale blue fluorescing scheelite (0.1-0.3%).
82.4	90.4	Quartz-Biotite-(Chlorite) Schist: as above 87.7 - 88.9m: 0.2-0.3% scheelite in skarn band Core Angle: 80° at 89.6m
90.4	98.1	Lower Garnet (Andradite)-Diopside Skarn Zone: light brown-green, fine grained, silicified, massive, scattered to disseminated minor specks of bright light blue fluorescing scheelite (0.2-0.4%), locally minor erratic quartz-carbonate veins, interlayered minor quartz-biotite-(chlorite) schist sections in places. 97.2-98.1m: 0.5-0.8% scheelite associated with 30-35% pyrrhotite and minor actinolite
98.1	113.4	Quartz Monsonite: light gray, medium grained (1-2mm in diameter subhedral feldspar phenocrysts), granular to slightly foliated, minor biotite in parts, slightly weathered. 107.4-110.2m: quartz vein
END OF HOLE		

APPENDIX B

DIAMOND DRILL ASSAYS

Property CAB CLAIMS Project No. 7398 Depth 1 . .0 m 91.4 - 44°00'

Hole No. #9 Co-ord 12 +53W Horizontal Length

Sheet No. 1 of 2 4 +25.3N Direction 224° True

Claim No. CAB #27 Elevation 1739.52 m Angle -50°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	~~ZN~~ WO_3	~~PB~~ MoS_2	NI	WIDTH X ASSAY						AVERAGES WIDTH	AU	AG	CU	~~ZN~~ WO_3	~~PB~~ MoS_2
0.0 - 1.8	Casing	1.8																		
1.8 -33.8	Waste	32.0																		
33.8-34.0	67371	0.2				0.08	0.005													
34.0-36.8	Waste	2.8																		
36.8-37.2	67372	0.4				0.25	0.005													
37.2-39.5	Waste	2.3																		
39.5-39.7	67373	0.2				0.21	0.007													
30.7-43.4	Waste	3.7																		
43.4-44.6	67374	1.2				0.10	0.003													
44.6-45.2	Waste	0.6																		
45.2-46.0	67375	0.8				0.04	0.003													
46.0-46.5	Waste	0.5																		
46.5-47.0	67376	0.5				0.03	0.003													
47.0-47.2	Waste	0.2																		
47.2-47.5	67377	0.3				0.10	0.003													
47.5-50.2	Waste	2.7																		
50.2-50.3	67378	0.1				0.75	0.005								0.1				0.75	
50.3-50.9	Waste	0.6																		
50.9-52.1	67379	1.2				0.26	0.007		0.312											
52.1-53.2	80	1.1				0.31	0.005		0.341						2.3				0.28	
53.2-56.6	Waste	3.4																		
56.6-57.1	67381	0.5				0.29	0.005													
57.1-66.2	Waste	9.1																		
66.2-67.1	67382	0.9				0.155	0.005													
67.1-67.8	Waste	0.7																		
67.8-68.6	67383	0.8				0.32	0.008								0.8				0.32	
68.6-69.2	84	0.6				0.05	0.007													
69.2-77.2	Waste	8.0																		
77.2-78.2	67301	1.0				0.005	0.002		0.005	0.002										
78.2-78.7	2	0.5				0.26	0.005		0.130	0.002										
78.7-79.9	3	1.2				0.005	0.007		0.060	0.008										
79.9-81.1	4	1.2				0.31	0.005		0.372	0.006										
81.1-81.6	5	0.5				0.01	0.002		0.005	0.001					2.2				0.27	0.005
81.6-82.1	6	0.5				0.45	0.007		0.225	0.004										

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

CORRECTED TESTS

DIAMOND DRILL RECORD

Date Began ..... Date Completed .....

Property CAB CLAIMS Project No. ..... Depth .....

Hole No. 9 Co-ord ..... Horizontal Length .....

Sheet No. 2 Of 2 ..... Direction .....

Claim No. ..... Elevation ..... Angle .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY ~~ZN~~ WO_3	ASSAY ~~PB~~ MoS_2	NI	WIDTH X ASSAY		AVERAGES WIDTH	AU	AG	CU	AVERAGES ~~ZN~~ WO_3	AVERAGES ~~PB~~ MoS_2	N
82.1-83.5	67307	1.4				0.02	0.007										
83.5-85.0	8	1.5				0.02	0.005				2.9				0.02	0.006	
85.0-85.5	9	0.5				0.55	0.005		0.275	0.003							
85.5-86.0	10	0.5				0.30	0.005		0.150	0.003	1.0				0.43	0.005	
86.0-86.4	67311	0.4				0.05	0.005										
86.4-87.5	67330	1.1				0.005	0.005										
87.5-89.0	1	1.5				0.005	0.002										
89.0-90.5	2	1.5				0.005	0.003										
90.5-92.0	3	1.5				0.005	0.003										
92.0-92.9	4	0.9				TR	0.005										
92.9-94.3	67312	1.4				TR	0.003										
94.3-95.8	3	1.5				TR	0.002										
95.8-97.7	4	1.9				0.005	0.003										
97.7-99.1	5	1.4				0.41	0.005		0.574	0.007							
99.1-99.5	6	0.4				0.03	0.007		0.012	0.003	2.9				0.30	0.004	
99.5-100.6	7	1.1				0.27	0.003		0.297	0.003							
100.6-102.0	8	1.4				0.01	0.003										
102.0-103.3	9	1.3				0.10	0.003										
103.3-104.2	20	0.9				0.015	0.005										
104.2-106.0	1	1.8				0.055	0.005										
106.0-106.6	2	0.6				0.04	0.003										
106.6-107.3	3	0.7				TR	0.003										
107.3-108.6	4	1.3				0.005	0.007										
108.6-108.9	5	0.3				0.005	0.173										
108.9-110.0	6	1.1				TR	0.018										
110.0-111.1	7	1.1				TR	0.005										
111.1-112.8	8	1.7				0.005	0.007										
112.8-114.2	9	1.4				TR	0.017										
114.2-118.0	Waste	3.8															

Date Began June 26/79 Date Compl. June 29/79

91.4m - 81°30'
121.9m - 81°30'

Property CAB CLAIMS Project No. 7398 Depth 141.1 m

Hole No. 10 Co-ord 12 +53W Horizontal Length

Sheet No. 1 of 2 4 25.3N Direction

Claim No. CAB #27 Elevation 1739.52m Angle -90°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY WO_3	ASSAY MoS_2	NI	WIDTH X ASSAY	WIDTH	AU	AG	CU	AVERAGES WO_3	AVERAGES MoS_2	N
0.0-1.8	Casing	1.8														
1.8-23.4	Waste	21.6														
23.4-23.7	67206	0.3				0.14	0.005									
23.7-24.2	Waste	0.5														
24.2-24.4	67207	0.2				0.66	0.005			0.2				0.66		
24.4-26.7	Waste	2.3														
26.7-28.1	67208	1.4				0.06	0.003									
28.1-28.4	Waste	0.3														
28.4-29.1	67209	0.7				0.08	0.003									
29.1-32.0	Waste	2.9														
32.0-33.0	67210	1.0				0.22	0.007			1.0				0.22		
33.0-49.1	Waste	16.1														
49.1-49.7	67211	0.6				0.13	0.005									
49.7-89.1	Waste	39.4														
89.1-90.8	67369	1.7				0.02	0.005									
90.8-92.0	70	1.2				0.005	0.005									
92.0-92.4	67335	0.4				0.005	0.007									
92.4-93.6	6	1.2				0.01	0.005									
93.6-93.9	7	0.3				0.03	0.003									
93.9-94.4	8	0.5														
94.4-95.1	9	0.7				0.08	0.005									
95.1-95.7	40	0.6				0.035	0.002									
95.7-97.1	1	1.4				0.27	0.003		0.378							
97.1-97.6	2	0.5				0.125	0.003		0.063							
97.6-98.2	3	0.6				0.27	0.003		0.162	6.7				0.18		
98.2-99.0	4	0.8				0.02	0.007		0.016							
99.0-99.7	5	0.7				0.35	0.005		0.245							
99.7-101.0	6	1.3				0.005	0.003		0.003							
101.0-101.3	7	0.3				0.125	0.002		0.038							
101.3-102.4	8	1.1				0.30	0.005		0.330							
102.4-103.3	9	0.9				0.02	0.007									
103.3-103.9	50	0.6				0.14	0.002									
103.9-104.6	1	0.7				TR	0.003									

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

CORRECTED ? TESTS

DIAMOND DRILL RECORD

Date Began ..... Date Completed .....

Property CAB CLAIMS Project No. ..... Depth .....

Hole No. 10 Co-ord ..... Horizontal Length .....

Sheet No. 2 Of 2 ..... Direction .....

Claim No. CAB #27 Elevation ..... Angle .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY WO_3 %	ASSAY MoS_2 % PB	NI	WIDTH X ASSAY	AVERAGES WIDTH	AU	AG	CU	WO_3 %	MoS_2 PB	N
104.6-105.8	67352	1.2				TR	0.003									
105.8-107.6	3	1.8				0.005	0.003									
107.6-109.1	4	1.5				TR	0.003									
109.1-110.6	5	1.5				0.01	0.005									
110.6-112.2	6	1.6				0.02	0.003									
112.2-112.6	7	0.4				0.005	0.003									
112.6-113.8	8	1.2				0.005	0.005									
113.8-114.9	9	1.1				0.025	0.003									
114.9-115.8	60	0.9				0.08	0.003									
115.8-116.7	1	0.9				0.49	0.003		0.441	2.1				1.30	0.003	
116.7-117.9	2	1.2				1.91	0.003		2.292							
117.9-119.9	3	2.0				0.01	0.003		0.020							
119.9-121.3	4	1.4				0.045	0.003		0.063							
121.3-122.8	5	1.5				0.02	0.002		0.030							
122.8-124.0	6	1.2				0.50	0.003		0.600	1.2				0.50		
124.0-125.1	7	1.1				0.17	0.008									
125.1-126.2	8	1.1				TR	0.007									
126.2-141.1	Waste	14.9														

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

CORRECTEI P TESTS

30.5 m - 49°
61.0 - 47°30'

Date Began June 30/79 Date Completed July 2/79

Property CAB CLAIMS Project No. 7398 Depth 71.3 m

Hole No. #11 Co-ord 11+41.7W Horizontal Length

Sheet No. 1 of 1 4+ 12N Direction 224° true

Claim No. CAB #8 Elevation 1720.4m Angle -50°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY ZnWO3	ASSAY PB	MoS2 NI	WIDTH X ASSAY					AVERAGES WIDTH	AU	AG	CU	ZnWO3	PB	MoS2
0.0-6.1	Casing	6.1																		
6.1-38.1	Waste	32.0																		
38.1-39.2	67385	1.1				0.27	0.005							1.1				0.27	0.005	
39.2-40.8	Waste	1.6																		
40.8-41.1	67386	0.3				0.01	0.010													
41.1-42.2	7	1.1				0.58	0.007							1.1				0.58	0.007	
42.2-43.3	8	1.1				0.115	0.007													
43.3-45.0	9	1.7				0.07	0.007													
45.0-46.3	90	1.3				0.01	0.005													
46.3-47.9	1	1.6				TR	0.005													
47.9-49.4	2	1.5				0.01	0.003													
49.4-50.9	3	1.5				0.015	0.003													
50.9-52.4	4	1.5				TR	0.003													
52.4-53.9	5	1.5				0.01	0.003													
53.9-54.3	6	0.4				0.01	0.003													
54.3-55.5	7	1.2				0.01	0.003													
55.5-57.0	8	1.5				0.01	0.003													
57.0-57.5	9	0.5				0.005	0.003													
57.5-58.5	67400	1.0			0.03	2.31	0.007			0.030	2.310									
58.5-59.5	1	1.0			0.01	0.095	0.003			0.010	0.095			2.4			0.02	1.18	0.005	
59.5-59.9	2	0.4			0.03	1.05	0.005	TR		0.012	0.420									
59.9-60.6	3	0.7			0.08	0.13	0.003													
60.6-61.1	4	0.5			0.03	0.14	0.007	0.01												
61.1-61.3	5	0.2				0.63	0.005							0.2				0.63	0.005	
61.3-62.6	67212	1.3			0.02	0.175	0.005													
62.6-63.6	3	1.0				0.02	0.003													
63.6-64.9	4	1.3				0.10	0.027													
64.9-65.4	5	0.5				0.005	0.007													
65.4-71.3	Waste	5.9																		

Date Began July 2/79 Date Compl July 5/79

Property CAB CLAIMS Project No. 7398 Depth 94.5m

Hole No. 12 Co-ord 11 +41.7W Horizontal Length

Sheet No. 1 of 2 4 + 12N Direction

Claim No. CAB #8 Elevation 1720.4 Angle -90

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY ~~ZN~~ WO_3	PB	NI	WIDTH X ASSAY	AVERAGES WIDTH	AU	AG	CU	~~ZN~~ WO_3	PB
0.0-7.0	Casing	7.0													
7.0-29.6	Waste	22.6													
29.6-30.6	67216	1.0				0.02									
30.6-31.9	7	1.3				0.13									
31.9-32.9	8	1.0				0.04									
32.9-34.1	9	1.2				0.08									
34.1-35.4	20	1.3				0.03									
35.4-35.7	1	0.3				0.43				0.3				0.43	
35.7-37.2	2	1.5				0.075									
37.2-38.7	3	1.5				0.02									
38.7-40.2	4	1.5				0.02									
40.2-41.3	5	1.1				0.01									
41.3-42.5	6	1.2				0.045									
42.5-43.1	7	0.6				0.005									
43.1-44.3	8	1.2				0.01									
44.3-44.8	9	0.5				0.10									
44.8-46.3	30	1.5				0.01									
46.3-47.9	1	1.6				0.105									
47.9-48.3	2	0.4				0.195									
48.3-49.4	3	1.1				0.02									
49.4-49.8	4	0.4				0.02									
49.8-51.8	5	2.0				0.02									
51.8-53.0	6	1.2				0.07									
53.0-53.8	7	0.8				0.66				0.8				0.66	
53.8-54.4	8	0.6				0.02									
54.4-55.3	9	0.9				0.04									
55.3-56.1	67253	0.8			0.01	1.01		0.01							
56.1-69.0	Waste	12.9													
69.0-69.3	67240	0.3													
69.3-69.7	1	0.4				0.04									
69.7-70.7	2	1.0				0.035									
70.7-71.9	3	1.2				0.02									

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

CORRECTED P TESTS

DIAMOND DRILL RECORD

Date Began ..... Date Completed .....

Property CAB CLAIMS Project No. ..... Depth .....

Hole No. 12 Co-ord ..... Horizontal Length .....

Sheet No. 2 of 2 ..... Direction .....

Claim No. CAB #8 Elevation ..... Angle .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY % WO_3	PB	NI	WIDTH X ASSAY	AVERAGES WIDTH	AU	AG	CU	% WO_3	PB	N
71.9-73.1	67244	1.2				1.17			1.404	1.9				1.14		
73.1-73.8	5	0.7				1.08			0.756							
73.8-74.2	6	0.4				0.13			0.052							
74.2-75.0	7	0.8				0.51			0.408	0.8				0.51		
75.0-75.7	8	0.7				0.015										
75.7-77.4	9	1.7				0.01										
77.4-78.6	67250	1.2				0.14										
78.6-78.9	1	0.3			0.10	1.28		0.01		0.3			0.10	1.28		0.
78.9-79.9	2	1.0				0.005										
79.9-94.5	Waste	14.6														

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

CORRECTEI P TESTS

DIAMOND DRILL RECORD

Date Began July 6/79 Date Completed July 7/79

Property CAB CLAIMS Project No. 7398 Depth 12.2m

Hole No. 13 Co-ord 10 + 38.6W Horizontal Length

Sheet No. 1 of 1 4 + 30.5N Direction 224°

Claim No. CAB #25 Elevation 1719.9m Angle -50°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI	WIDTH X ASSAY	WIDTH	AU	AG	CU	ZN	PB	N
			ASSAY							AVERAGES						
0.0-6.7	Casing	6.7														
6.7-12.2	Waste	5.5														

HOLE ABANDONED - POOR GROUND CONDITIONS

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

CORRECTEI P TESTS

30.5M - 88°30'
61.0 86°30'

Date Began July 7/79 Date Completed July 10/79

Property CAB CLAIMS Project No. 7398 Depth 93.3m

Hole No. 14 Co-ord 10 + 38.6 W Horizontal Length

Sheet No. 1 of 1 4 + 30.5 N Direction

Claim No. CAB #25 Elevation 1719.9 m Angle -90°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	WO_3	PB	NI	WIDTH X ASSAY	WIDTH	AU	AG	CU	ZN	WO_3	PB	N
							ASSAY				AVERAGES							
0.0-18.6	Casing	18.6																
18.6-37.2	Waste	18.6																
37.2-37.9	67264	0.7					0.02											
37.9-39.2	67257	1.3					0.44			0.572								
39.2-39.9	8	0.7					0.02			0.014								
39.9-40.2	9	0.3					0.84			0.252								
40.2-42.2	60	2.0					0.37			0.740	5.2					0.33		
42.2-42.8	1	0.6					0.02			0.012								
42.8-43.1	2	0.3					0.36			0.108								
43.1-44.4	67263	1.3					0.155											
44.4-46.5	Waste	2.1																
46.5-47.9	67254	1.4					0.49				1.4					0.49		
47.9-48.5	5	0.6					0.06											
48.5-49.8	6	1.3					0.05											
49.8-68.4	Waste	18.6																
68.4-69.2	67265	0.8					TR											
69.2-70.2	6	1.0			0.07		0.66				1.0					0.66		
70.2-70.7	7	0.5					0.03											
70.7-71.7	8	1.0					0.20											
71.7-72.1	9	0.4					0.31				0.4					0.31		
72.1-73.0	Waste	0.9																
73.0-73.5	67270	0.5					0.05											
73.5-76.0	Waste	2.5																
76.0-77.1	67271	1.1					0.14											
77.1-93.3	Waste	16.2																

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

CORRECTEI P TESTS

DIAMOND DRILL RECORD

Date Began July 12/79 Date Completed July 14/79

30.5 -48°
61.0 - 47°

Property CAB CLAIMS Project No. 7398 Depth 91.7

Hole No. 15 Co-ord 9 + 22W Horizontal Length

Sheet No. 1 of 1 4 + 00N Direction 224°

Claim No. CAB #8 Elevation 1753.0m Angle -50°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ASSAY ~~2%~~ WO_3	PB	NI	WIDTH X ASSAY	AVERAGES WIDTH	AU	AG	CU	~~2%~~ WO_3	PB	N
0.0-6.1	Casing	6.1														
6.1-30.9	Waste	24.8														
30.9-31.9	67281	1.0				0.02										
31.9-33.2	2	1.3				0.03										
33.2-35.9	Waste	2.7														
35.9-36.3	67272	0.4				0.01										
36.3-36.6	3	0.3				0.26				0.3				0.26		
36.6-37.2	4	0.6				0.135										
37.2-38.3	5	1.1				0.02										
38.3-38.7	6	0.4				0.21				0.4				0.21		
38.7-39.3	7	0.6				0.01										
39.3-62.0	Waste	22.7														
62.0-62.6	67278	0.6				0.045										
62.6-63.1	9	0.5				0.015										
63.1-64.9	67280	1.8				0.09										
64.9-91.7	Waste	26.8														

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began July 15/79 Date Completed July 19/79

Property CAB CLAIMS Project No. 7398 Depth 113.4 m

Hole No. 16 Co-ord 14 + 74W Horizontal Length

Sheet No. 1 of 1 3 + 64N Direction -

Claim No. CAB #10 Elevation 1753.9m Angle -90°

CORRECTEI P TESTS

30.5 m - 88°45'
61.0 - 83°
91.4 - 83°

Resident Geologist.

DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	WO_3	PB	NI	WIDTH X ASSAY	WIDTH	AU	AG	CU	ZN	WO_3	PB	N
							ASSAY									AVERAGES		
0.0-4.6	Casing	4.6																
4.6-72.3	Waste	67.7																
72.3-72.7	67283	0.4					0.34				0.4					0.34		
72.7-73.8	4	1.1					0.05											
73.8-74.4	5	0.6					0.04											
74.4-75.3	6	0.9					0.40				0.9					0.40		
75.3-76.0	7	0.7					0.11											
76.0-76.3	8	0.3					0.10											
76.3-76.8	9	0.5					0.23											
76.8-77.7	67290	0.9					0.21											
77.7-78.2	1	0.5					0.54				0.5					0.54		
78.2-79.4	2	1.2					0.11											
79.4-87.7	Waste	8.3																
87.7-88.6	67293	0.9					0.08											
88.6-88.8	4	0.2					0.39				0.2					0.39		
88.8-90.4	Waste	1.6																
90.4-90.9	67295	0.5					0.07											
90.9-91.8	Waste	0.9																
91.8-92.7	67296	0.0					0.10											
92.7-94.2	7	1.5					0.02											
94.2-95.0	8	0.8					0.06											
95.0-96.2	9	1.2					0.33			0.40	1.6m					0.30		
96.2-96.6	67300	0.4					0.20			0.08								
96.6-97.2	1	0.6					0.55			0.33	1.5					0.51	3.1	0.4
97.2-98.1	2	0.9					0.48			0.43								
98.1-113.4	Waste	15.3																

from 95.0-98.1= 3.1m @ 0.40% WO_3

APPENDIX C

REVIEW OF EXPENDITURES

The following invoices cover diamond drill holes # 9 to #16 totalling 2166 feet. The total expenditures were sufficient to support the years assessment applied to the groupings as shown on the claim maps.

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-3A9
PHONE 687-4584

June 30, 1979
Invoice #- 568

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Co. Ltd.,
Box 4007,
Whitehorse, Y.T.
Y1A 3S9

Fox Creek Drill #70-7 Charges to June 30, 1979

Hole 9/50/BQ					
Moving					
169 man hrs.	@ $16.00 per hr.	=		$ 2,704.00	
Waterline					
20 man hrs.	@ $16.00 per hr.	=		$ 320.00	
Testing					
6 man hrs.	@ $16.00 per hr.	=	$ 96.00		
3 machine hrs.	@ $11.00 per hr.	=	$ 33.00	$ 129.00	
Travelling					
4 man hrs.	@ $16.00 per hr.	=		$ 64.00	
Time Not Accounted					
4 man hrs.	@ $16.00 per hr.	=		$ 64.00	
Casing					
0 - 6 = 6 ft.	@ $20.00 per ft.	=		$ 120.00	
Coring					
6 - 387=381 ft.	@ $17.50 per ft.	=		$ 6,667.50	$10,068.50
Hole 10/90/BQ					
Moving					
2 man hrs.	@ $16.00 per hr.	=		$ 32.00	
Testing					
6 man hrs.	@ $16.00 per hr.	=	$ 96.00		
3 machine hrs.	@ $11.00 per hr.	=	$ 33.00	$ 129.00	
Travelling					
7 man hrs.	@ $16.00 per hr.	=		$ 112.00	
Casing					
0 - 6 = 6 ft.	@ $20.00 per ft.	=		$ 120.00	
Coring					
6-463= 457 ft.	@ $17.50 per ft.	=		$ 7.997.50	$ 8,390.50

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
3-435 HOWE STREET
VANCOUVER, B.C. V6C 2X9

Hole 11/50/BQ					
Moving					
54 man hrs.	@ $16.00 per hr.	=		$ 864.00	
Waterline					
4 man hrs.	@ $16.00 per hr.	=		$ 64.00	
Mud Time					
2 man hrs.	@ $16.00 per hr.	=	$ 32.00		
1 machine hr.	@ $11.00 per hr.	=	$ 11.00	$ 43.00	
Casing					
0-20=20 ft.	@ $20.00 per ft.	=		$ 400.00	
Coring					
12-42-30 ft.	@ $17.50 per ft.	=		$ 525.00	$ 1,896.00
Mobilization of Crew		=		$ 500.00	
Mobilization of Equipment		=		$ 500.00	
Truck Driver's Time					
4 hrs. truck time	@ $35.00 per hr.	=		$ 140.00	
3.5hrs. moving	@ $16.00 per hr.	=		$ 56.00	
25 bags mud	@ $10.75 each	=		$ 268.75	
40 bags Quik Trol	@ $ 9.00 each	=		$ 360.00	
4 pails Poly Drill	@ $136.00 each	=		$ 544.00	
1 powder	@ $ 88.00 each	=		$ 88.00	$ 2,456.75
			Total this Invoice:		$22,811.75

Price O.K. ✓
Ext. O.K. ✓
Supply Check ✓
Charge % No. 7398-07
Approved

July 26/79

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
[illegible]

July 15, 1979

Invoice #-575

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Co. Ltd.,
Box 4007,
Whitehorse, Y. T.
Y1A 3S9

Drilling Charges July 1 to 15, 1979: (Fox Creek Project)

Hole: #-11/50/BQ				
Reaming				
10 man hrs.	@ $16.00 per hr.	= $ 160.00		
5 machine hrs.	@ $11.00 per hr. =	= $ 55.00	$ 215.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Coring				
42 - 234 = 192 ft.	@ $17.50 per ft.	=	$3,360.00	$ 3,661.00
Hole: #-12/90/BQ				
Moving				
13 man hrs.	@ $16.00 per hr.	=	$ 208.00	
Reaming Cave				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Mud Time				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Casing				
0 - 23 - 23 ft.	@ $20.00 per ft.	=	$ 460.00	
Coring				
14 - 310 = 296 ft.	@ $17.50 per ft.	=	$5,180.00	$ 6,020.00
Hole: #-13/50/BQ				
Moving				
58 man hrs.	@ $16.00 per hr.	=	$ 928.00	
Mud Time				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	$ 971.00

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
[redacted]

Hole: #-14/90/BQ				
Reaming Cave				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Testing				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Casing				
0 - 10 = 10 ft.	@ $22.50 per ft.	= $ 225.00		
0 - 61 = 61 ft.	@ $20.00 per ft.	= $1,220.00	$1,445.00	
Coring				
20 - 306 = 286 ft.	@ $17.50 per ft.	=	$5,005.00	$ 6,579.00
Hole: #-15/50/BQ				
Moving				
84 man hrs.	@ $16.00 per hr.	=	$1,344.00	
Reaming Cave				
10 man hrs.	@ $16.00 per hr.	= $ 160.00		
5 machine hrs.	@ $11.00 per hr.	= $ 55.00	$ 215.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Casing				
0 - 10 = 10 ft.	@ $22.50 per ft.	= $ 225.00		
0 - 20 = 20 ft.	@ $20.00 per ft.	= $ 400.00	$ 625.00	
Coring				
10 - 301 = 291 ft.	@ $17.50 per ft.	=	$5,092.50	$ 7,362.50
Hole: #-16/90/BQ				
Moving				
68 man hrs.	@ $16.00 per hr.	=	$1,088.00	
Waterline				
6 man hrs.	@ $16.00 per hr.	=	$ 96.00	
Travelling Time				
4 man hrs.	@ $16.00 per hr.	=	$ 64.00	
Casing				
0 - 15 = 15 ft.	@ $22.50 per ft.	= $ 337.50		
0 - 15 = 15 ft.	@ $20.00 per ft.	= $ 300.00	$ 637.50	
Coring				
15 - 165 = 150 ft.	@ $17.50 per ft.	=	$2,625.00	$ 4,510.50
Items Left in Hole #-11/50/BQ				
20 ft. BW casing	@ $71.20/10' length	= ~~$ 142.40~~		
1 BW casing shoe	@ $198.00 each	= $ 198.00	$ 340.40	
	= + 15%		$ 51.06	$ 391.46
		Total Invoice		$29,495.46

Items to be charged on Hole #-13/50/BQ will follow.

Prices O.K.
Ext. O.K.
Counting O.K.
Charge % No. 7398-07
Approved

APPENDIX D

QUALIFICATIONS OF SUPERVISION

GERALD E. BIDWELL

ADDRESS: 62 Klondike Rd.,
Whitehorse, Y. T.

EDUCATION: B. A. in geology - University of Saskatchewan graduated in 1967.

EMPLOYMENT: 1967 - 1979 Hudson Bay Exploration and Development Company Limited

1967 - 1970 - mine geological work and surface exploration, geological mapping Snow Lake area, Manitoba.

1970 - 1976 - Supervisor of exploration programs in British Columbia and Yukon Territory.

1976 - 1979 - Resident Geologist, Whitehorse Office, Hudson Bay Exploration and Development Company Limited.

CHOONG B. KO

ADDRESS: Hudson Bay Exploration & Development Co. Ltd.,
Flin Flon, Manitoba.

EDUCATION: B. Sc (Geology) Seoul University,
Seoul, Korea - 1965.

EMPLOYMENT: 1970-71 - Donald Fischer & Associates
field geologist

1972-73 - Great Plains
field geologist - massive sulphides exploration, Northern Saskatchewan

1974-79 - Hudson Bay Exploration & Development
mine geologist - Flin Flon area, Manitoba

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
3-425 HOWE STREET
VANCOUVER, B.C. V6C-2A9
PHONE 687-4634

RECEIVED
1 AUG 1979
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

June 30, 1979
Invoice #- 568

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Co. Ltd.,
Box 4007,
Whitehorse, Y.T.
Y1A 3S9

Fox Creek Drill #70-7 Charges to June 30, 1979

Hole 9/50/BQ				
Moving				
169 man hrs.	@ $16.00 per hr.	=	$ 2,704.00	
Waterline				
20 man hrs.	@ $16.00 per hr.	=	$ 320.00	
Testing				
6 man hrs.	@ $16.00 per hr.	= $ 96.00		
3 machine hrs.	@ $11.00 per hr.	= $ 33.00	$ 129.00	
Travelling				
4 man hrs.	@ $16.00 per hr.	=	$ 64.00	
Time Not Accounted				
4 man hrs.	@ $16.00 per hr.	=	$ 64.00	
Casing				
0 - 6 = 6 ft.	@ $20.00 per ft.	=	$ 120.00	
Coring				
6 - 387=381 ft.	@ $17.50 per ft.	=	$ 6,667.50	$10,068.50
Hole 10/90/BQ				
Moving				
2 man hrs.	@ $16.00 per hr.	=	$ 32.00	
Testing				
6 man hrs.	@ $16.00 per hr.	= $ 96.00		
3 machine hrs.	@ $11.00 per hr.	= $ 33.00	$ 129.00	
Travelling				
7 man hrs.	@ $16.00 per hr.	=	$ 112.00	
Casing				
0 - 6 = 6 ft.	@ $20.00 per ft.	=	$ 120.00	
Coring				
6-463= 457 ft.	@ $17.50 per ft.	=	$ 7.997.50	$ 8,390.50

09/133

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
[illegible]

Hole 11/50/BQ					
Moving					
54 man hrs.	@ $16.00 per hr.	=		$ 864.00	
Waterline					
4 man hrs.	@ $16.00 per hr.	=		$ 64.00	
Mud Time					
2 man hrs.	@ $16.00 per hr.	=	$ 32.00		
1 machine hr.	@ $11.00 per hr.	=	$ 11.00	$ 43.00	
Casing					
0-20=20 ft.	@ $20.00 per ft.	=		$ 400.00	
Coring					
12-42-30 ft.	@ $17.50 per ft.	=		$ 525.00	$ 1,896.00
Mobilization of Crew		=		$ 500.00	
Mobilization of Equipment		=		$ 500.00	
Truck Driver's Time					
4 hrs. truck time	@ $35.00 per hr.	=		$ 140.00	
3.5hrs. moving	@ $16.00 per hr.	=		$ 56.00	
25 bags mud	@ $10.75 each	=		$ 268.75	
40 bags Quik Trol	@ $ 9.00 each	=		$ 360.00	
4 pails Poly Drill	@ $136.00 each	=		$ 544.00	
1 powder	@ $ 88.00 each	=		$ 88.00	$ 2,456.75

Total this Invoice: $22,811.75

Price J.K. ✓
Ext. [illegible] ✓
Charge to [illegible] ✓
Charge to No. 7398-07
Approved

July 26/79

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
[redacted]

RECEIVED
1 AUG 1979
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

July 15, 1979

Invoice #-575

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Co. Ltd.,
Box 4007,
Whitehorse, Y. T.
Y1A 3S9

Drilling Charges July 1 to 15, 1979: (Fox Creek Project)

Hole: #-11/50/BQ				
Reaming				
10 man hrs.	@ $16.00 per hr.	= $ 160.00		
5 machine hrs.	@ $11.00 per hr.=	= $ 55.00	$ 215.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Coring				
42 - 234 = 192 ft.	@ $17.50 per ft.	=	$3,360.00	$ 3,661.00
Hole: #-12/90/BQ				
Moving				
13 man hrs.	@ $16.00 per hr.	=	$ 208.00	
Reaming Cave				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Mud Time				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Casing				
0 - 23 - 23 ft.	@ $20.00 per ft.	=	$ 460.00	
Coring				
14 - 310 = 296 ft.	@ $17.50 per ft.	=	$5,180.00	$ 6,020.00
Hole: #-13/50/BQ				
Moving				
58 man hrs.	@ $16.00 per hr.	=	$ 928.00	
Mud Time				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	$ 971.00

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 – 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
[illegible]

Hole: #-14/90/BQ				
Reaming Cave				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Testing				
2 man hrs.	@ $16.00 per hr.	= $ 32.00		
1 machine hr.	@ $11.00 per hr.	= $ 11.00	$ 43.00	
Casing				
0 - 10 = 10 ft.	@ $22.50 per ft.	= $ 225.00		
0 - 61 = 61 ft.	@ $20.00 per ft.	= $1,220.00	$1,445.00	
Coring				
20 - 306 = 286 ft.	@ $17.50 per ft.	=	$5,005.00	$ 6,579.00
Hole: #-15/50/BQ				
Moving				
84 man hrs.	@ $16.00 per hr.	=	$1,344.00	
Reaming Cave				
10 man hrs.	@ $16.00 per hr.	= $ 160.00		
5 machine hrs.	@ $11.00 per hr.	= $ 55.00	$ 215.00	
Testing				
4 man hrs.	@ $16.00 per hr.	= $ 64.00		
2 machine hrs.	@ $11.00 per hr.	= $ 22.00	$ 86.00	
Casing				
0 - 10 = 10 ft.	@ $22.50 per ft.	= $ 225.00		
0 - 20 = 20 ft.	@ $20.00 per ft.	= $ 400.00	$ 625.00	
Coring				
10 - 301 = 291 ft.	@ $17.50 per ft.	=	$5,092.50	$ 7,362.50
Hole: #-16/90/BQ				
Moving				
68 man hrs.	@ $16.00 per hr.	=	$1,088.00	
Waterline				
6 man hrs.	@ $16.00 per hr.	=	$ 96.00	
Travelling Time				
4 man hrs.	@ $16.00 per hr.	=	$ 64.00	
Casing				
0 - 15 = 15 ft.	@ $22.50 per ft.	= $ 337.50		
0 - 15 = 15 ft.	@ $20.00 per ft.	= $ 300.00	$ 637.50	
Coring				
15 - 165 = 150 ft.	@ $17.50 per ft.	=	$2,625.00	$ 4,510.50
Items Left in Hole #-11/50/BQ				
20 ft. BW casing	@ $71.20/10' length	= ~~$ 142.40~~		
1 BW casing shoe	@ $198.00 each	= $ 198.00	$ 340.40	
	= + 15%	=	$ 51.06	$ 391.46
		Total Invoice		$29,495.46

Items to be charged on Hole #-13/50/BQ will follow.

Prices O.K. ✓
Ext. O.K. ✓
Coding Code
Charge to 7398-07
Approved