

ASSESSMENT REPORT

DIAMOND DRILLING PROGRAM

JUNE - AUGUST 1981

CAB CLAIMS

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

N.T.S. 105F/14

BY

D. A. DOWNING, B. Sc. (Eng.)

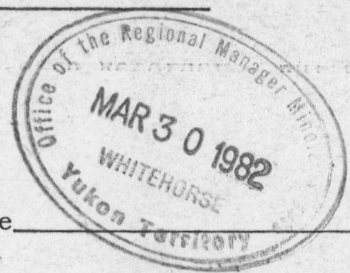
MARCH 26, 1982

091005

From: Mining Recorder at Whitehorse

File No. \_\_\_\_\_

To: Supervising Mining Recorder - Whitehorse, Y.T.



FOR ACTION:

\_\_\_\_\_ New Application for Lease to Prospect: Name \_\_\_\_\_

\_\_\_\_\_ Renewal Appl'n Lease to Prospect: Name \_\_\_\_\_ No. \_\_\_\_\_

\_\_\_\_\_ Affidavit of Expenditure on Placer Lease: Name \_\_\_\_\_ No. \_\_\_\_\_

\_\_\_\_\_ Assignment of Prospecting Lease No. \_\_\_\_\_

\_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

\_\_\_\_\_ Grouping Appl'n under Sec. 52(2) Yukon Placer Mining Act: Owner \_\_\_\_\_

✓ \_\_\_\_\_ Diamond Drill Logs: \_\_\_\_\_

Owner: Hudson Bay Exploration & Development Co. Ltd. Claim Sheet No. 105-F-14

\_\_\_\_\_ Quartz Assessment Report \_\_\_\_\_

\_\_\_\_\_ Claims: \_\_\_\_\_ Claim Sheet No. \_\_\_\_\_

\_\_\_\_\_ Type of Report: \_\_\_\_\_

\_\_\_\_\_ Submitted By: \_\_\_\_\_

\_\_\_\_\_ Claims work performed on: Cal

\_\_\_\_\_ \$ Req. for renewal application: \$51,200

Signature M. Martin

Date 29 March 1982

Reply action

Date Ref

Signature \_\_\_\_\_

Date \_\_\_\_\_

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## 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 geological 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 name 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 3788 feet of BQ/NQ diamond drilling in 28 holes. The 1981 program consisted of 2183 metres in 9 holes. 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.

## PERSONNEL

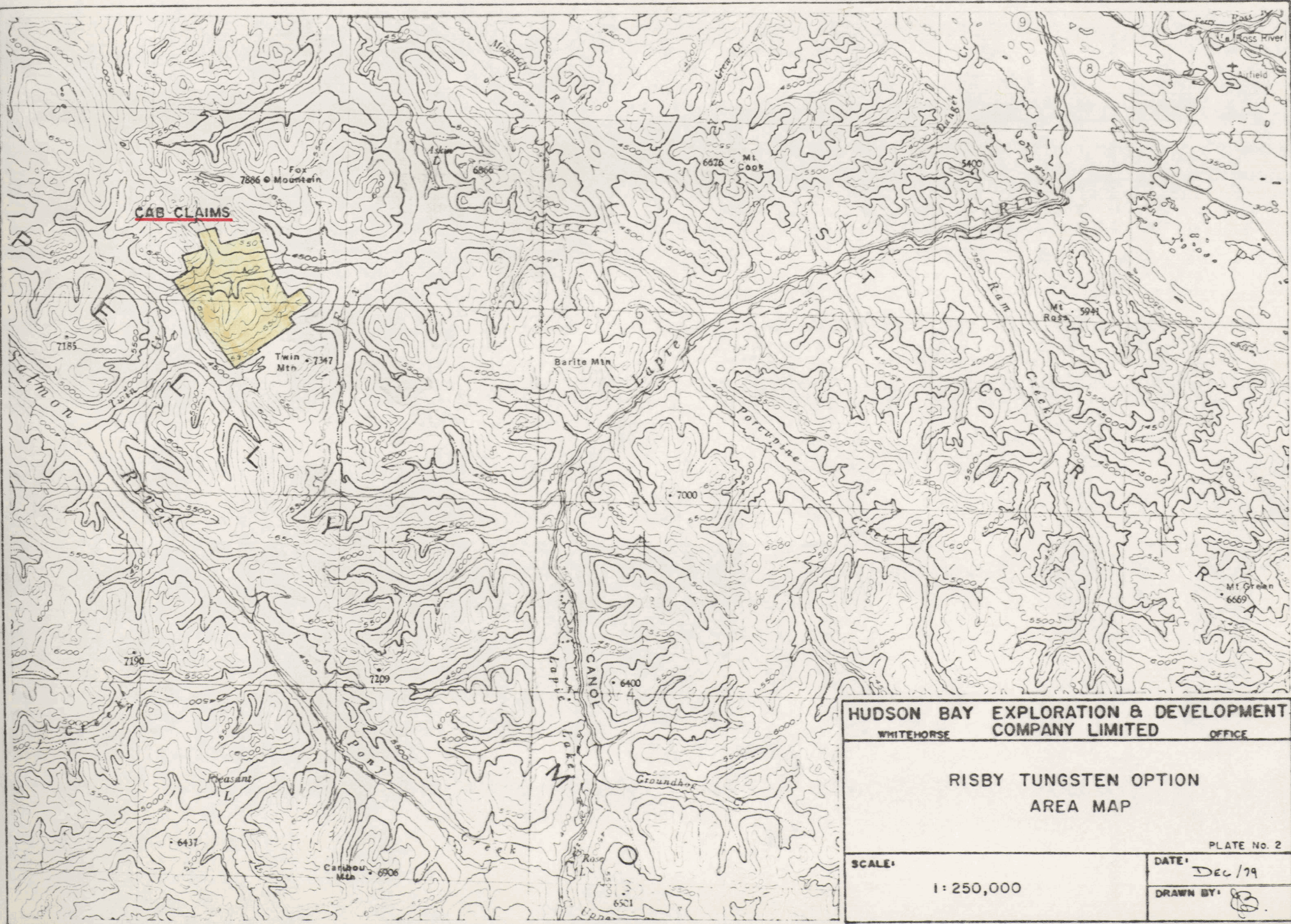
The drilling program was contracted by E. Caron Diamond Drilling Limited with head office in Whitehorse, Yukon Territory. Four qualified drillers were employed. Mr. David A. Downing of Hudson Bay Exploration and Development Company Limited was the project supervisor and under the management of Mr. G. E. Bidwell, Resident Geologist, Whitehorse. The summary of qualifications of Mr. Downing 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 17 and was completed on August 24, 1981. The equipment was ferried in by helicopter from the Canol Road and removed the same way.



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

**RISBY TUNGSTEN OPTION  
AREA MAP**

PLATE No. 2

SCALE:  
1:250,000

DATE:  
DEC/79

DRAWN BY:  
B.

During the drilling period 9 holes were completed for a total of 2183 metres. 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 staked at the camps along with most of the previously drilled 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 silstone. At or close to the intrusive contact the limestone units have been recrystallized to diopside skarns containing minor pyrrhotite, garnet, scheelite, pyrite and molybdenite.

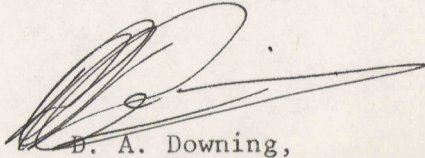
The sedimentary package consists of quartz biotite diopside schists interlayered with essentially two diopside garnet skarn horizons. Bedding parallels the intrusive contact and the lower skarn in the sequence is usual at or within a few metres of the intrusive. The upper skarn is approximately 20 metres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

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

#### CONCLUSIONS

The 1981 drilling tested the No. 2 zone out to a strike length of 1200 metres and to a maximum vertical depth of 350 metres. The skarn horizons hosting the scheelite mineralization were found to persist over the drilled area although were greatly reduced in width along strike to the northwest.

The mineralized horizons have an increase in pyrrhotite content moving down-dip that is matched with increasing alteration of the biotite schist and in the amount of quartz veining cutting the stratigraphy. The tungsten grade in the lower skarn is encouraging and there are indications of a third mineralized horizon to the southeast. The lower skarn horizon has maintained its position at or within a few metres of the intrusive. There is no indication that the situation changes down-dip and the prospects for deeper drill intersections are good.

  
B. A. Downing,  
Project Geologist, Risby Tungsten Option  
March 26, 1982.



APPENDIX A

DIAMOND DRILL LOGS

## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 25

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

Mining Division Whitehorse

Hole Nº 38

Angle: -78°

Direction: 225°

Depth: 191 m

Grid Nº.

Co-Ordinates: 10+51W

7+03N

Date Started: June 18, 1981

Finished: June 23, 1981

Logged By: D. Downing

Drilled By: E. Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 7
From	To		
0.0	12.2	Casing	
12.2	19.9	Biotite Feldspar Porphyry Dike Feldspar - Anhedral to Subhedral plagioclase crystals 1-5 mm in a very fine grained biotite and plagioclase matrix 50% feldspar crystals 50% matrix. - Alteration - Biotite 20% altered to green chlorite. plus strong bleaching around fractures cutting core @ 30°-40° and @ 0°-fractures may be filled with calcite (90%) and/or quartz (10%) - alteration gives greenish colour to rock - ? due to chlorite - feldspar altered to white clay - alteration due to bleaching - 10% - in severely altered areas - very clcareous and core very broke Lower Contact - with schist - .2m with feldspar crystals greatly reduced in size and number - rock is almost an aphanitic matrix with 0.5 mm-1 mm feldspar crystals.	
19.9	64.7	Quartz Biotite Schist - with quartz veining parallel to the foliation - muscovite rich sections - very blocky core - pyrrhotite chlorite patches around and in quartz veining - fine disseminated pyrrhotite along foliation (variable). * - Muscovite rich section - have grey bleached appearance - generally quartz veining and grey bleaching alteration increase with depth - muscovite only at very top of section - no carbonate even in fractures 27.3-33.5 - pyrrhoite (rare) 33.5-35.9 - highly bleached zone - poor core recovery @ 37.1 - 8 mm feldspar vein parallel to the foliation small feldspar crystal porphyries begining to form 37.2-41.5 - Increase in % of quartz bands along foliation - larger quartz bands have more pyrrhotite - pyrite - pyrite common as crystals or patches along quartz filled fracture surfaces parallel to foliation	

From	To	DESCRIPTION OF CORE
		43.8 - 5 cm of schist broken into mica flakes, white clay and quartz pieces (small shear zone (?))
		52.3 & 52.8 - .5-10 cm zones of rotting - similar to 43.8 - highly fractured along foliation with chlorite and with clay - white clay appears as derived from small white euhedral crystals found in areas of unknown pink mineral - suspected as feldspar - pyrite found in white clay along fractures
		53.0 - area similar to above but unrotted - contains unknown pink mineral - feldspar crystals
		54.6 - 60.4 - appearance of CaCO <sub>3</sub> along fractures and rare diopside bands. Rare bleached bands along close to vertical fractures. More apparent alteration.
		60.4 - 63.1 - Broken core - very light coloured, well bleached (with light green chlorite - quartz fractured - trace calcite with more along fractures and in (Fault gouge?))
		63.1 - 63.2 - Quartz diopside skarn - plus vertical fractures with 1 cm offset-pyrite along fractures with patch pyrrhotite in schist and along foliation Halo around fractures and pyrite is black & aphanitic - actinolite (?) - actinolite halo extends into pyrrhotitized patches.
		63.2 - 64.7 - Highly altered biotite schist
		Core Angles: @ 22.8 - 76°                      @ 40.9 - 63° @ 24.7 - 61°                      @ 42.2 - 68° @ 26.5 - 52°                      @ 59.7 - 56° @ 27.6 - 63°                      @ 62.2 - 47° @ 30.2 - 69°                      @ 63.5 - 65° @ 31.7 - 54°                      @ 64.9 - 61° @ 33.4 - 57°                      @ 68.0 - 57° @ 36.8 - 67° @ 38.1 - 67°
64.7	64.8	Calcareous graphite mud - fault gouge (?) parallel to foliation
64.8	66.5	Slightly calcareous, fractured chlorite, feldspar (?) schist and diopside, feldspar (?) schist, trace scheelite - calcite (?) crystals growing in fracture - strongly veined by calcite - sections with actinolite filled fractures (black) in areas of multiple fractures parallel to the core axis, minor pyrite/pyrrhotite development - faint remanent foliation
66.5	66.8	Calcareous, graphitic mud - fault gouge (?) - contain 1-10 mm <b>angular</b> clasts of calcareous diopside (?) skarn with very fine grained pyrite in very fine stockwork of fractures.
66.8	70.6	Intercalated Biotite Schist and quartz diopside skarn - quartz veins parallel to foliation - areas of strong vertical fracturing have actinolite in veins with pyrrhotite and calcite - 3 cm offset found along vertical fracture with .1% scheelite disseminated along foliation

DEPTH		DESCRIPTION OF CORE	Page 3 of 7
From	To		
		- trace scheelite bands found along the foliation - calcite becoming more predominant Core Angle: @ 70.2 - 58°	
70.6	70.9	Quartz vein with visible molybdenum along stylolite type vein - well fractured with trace calcite along fractures - remant foliation Core Angle: @ 70.7 - 60°	
70.9	72.9	Intercalated schist and skarn - trace scheelite along foliation where there are calcite filled fractures parallel to the core axis. - trace calcite along the foliation continuously - quartz veins parallel to the foliation Core Angle: @ 72.6 - 56°	
72.9	73.2	Quartz feldspar porphyry dike - 40% feldspar crystals (1 mm) anhedral to subhedral in quartz matrix - trace foliation - variable alteration to clay along 2 mm quartz vein at 90° to core axis - conjugate fault set @ 35 - 40° with pressure along core axis	
73.2	76.5	Intercalated Schist and Skarn 90% skarn for .1 m adjacent quartz feldspar porphyry dike 73.6 - 74.2 - quartz vein with calcite along fractures with last .4 m as a mixture of calcareous white clay and quartz and mica gravel - ? fault ? - 74.2 - 76.5 - marginal to biotite schist - minor quartz veins parallel to foliation - trace scheelite along foliation in skarn rich areas with trace pyrrhotite filled vertical fractures Core Angles: @ 73.4 - 48° @ 75.2 - 63° @ 75.9 - 65°	
76.5	77.7	Quartz Diopside Skarn - marginal to schist/skarn - cut by large calcite filled fractures parallel to the core axis - fractures have actinolite halo or are actinolite filled with rare pyrrhotite patches - trace scheelite parallel to the foliation - biotite replaced by quartz near fracture halo or rotted to white clay Core Angle: @ 77.2 - 57°	
77.7	102.1	Intercalated schist and skarn - 60% skarn - 40% schist - many small actinolite filled fractures in very fine stockwork with fractures running parallel to the core axis - also filled with calcite and pyrrhotite - pyrite at fracture intersections occasionally - trace scheelite along foliation - slightly calcareous 85.4 - 86.3 - Quartz diopside skarn with trace disseminated scheelite with a well developed system of pyrrhotite/actinolite	

DEPTH	
From	To

DESCRIPTION OF CORE

filled fractures close to parallel with the core axis  
 87.8 - 89.3 - short skarn sections up to .05% scheelite along the foliation  
 89.3 - 102.1- Calcite very rare to absent  
 \* Skarn usually has remanent foliation  
 99.8 - 102.1- Disseminated scheelite becoming more prevalent in skarn horizons

Core Angles:  
 @ 79.0 - 58° @ 91.0 - 45°  
 @ 80.3 - 58° @ 92.3 - 53°  
 @ 81.9 - 55° @ 93.7 - 54°  
 @ 83.1 - 59° @ 95.1 - 56°  
 @ 84.8 - 50° @ 96.6 - 59°  
 @ 86.7 - 54° @ 98.2 - 57°  
 @ 87.8 - 58° @ 101.0 - 55°  
 @ 89.2 - 58° @ 102.4 - 51°

102.1 102.2

Chloritic Shear Zone  
 - slightly calcareous, slightly pyritic massive dark green to black chlorite matrix with .5 - 2 mm quartz, calcite well rounded fragments  
 - may not be shear zone just strongly altered rock

102.2 102.9

Quartz Diopside Skarn  
 \* Aug.  $WO_3$  - .1%  
 .2% 102.4 - 102.7  
 .8% 102.7 - 102.8

Core Angles: @ 103.2 - 52°

102.9 105.8

Intercalated Schist and Skarn  
 - scheelite absent - calcite very rare  
 - fracturing and alteration limited  
 - last .4 m all skarn with strong remanent foliation  
 - may be bleached zone around the following alteration horizon

Core Angles: @ 105.2 - 57°  
 @ 105.6 - 45°

105.8 111.0

Chlorite Shear Zone  
 - as at 102.1  
 - very highly altered garnet diopside skarn  
 - varies from calcareous, prite chlorite mud to very highly fractured diopside skarn with actinolite, calcite and pyrite along the fractures. A trace of foliation remains with traces of garnet along the foliation  
 - the chlorite mud may also contain areas of slightly graphitic material and calcite gravel  
 - shearing probably occurs along this zone of weakness

111.0 113.6

Intercalated schist and skarn  
 - very little calcite or scheelite - 50% biotite (altered grey)  
 50% diopside skarn  
 - fracturing rare to limited

Core Angle: @ 111.8 - 34°

DEPTH		DESCRIPTION OF CORE	Page 5 of 7																					
From	To																							
113.6	114.6	<p>Diopside Skarn</p> <ul style="list-style-type: none"> <li>- massive diopside skarn</li> <li>- slightly calcareous</li> <li>- fractures close to parallel with the core axis               <ul style="list-style-type: none"> <li>- filled with calcite, quartz, pyrrhotite</li> <li>- actinolite halo</li> </ul> </li> </ul> <p>* 113.6 - 114.1 - 0.5% WO<sub>3</sub></p> <ul style="list-style-type: none"> <li>- only calcite/ quartz in fractures</li> <li>- pyrite/actinolite rare</li> <li>- fracturing not as strong</li> </ul> <p>114.1 - 114.6 - strong actinolite halos massive</p> <ul style="list-style-type: none"> <li>- rare WO<sub>3</sub></li> <li>- trace very fine grained garnet in quartz</li> </ul>																						
114.6	115.2	<p>Highly altered diopside skarn</p> <ul style="list-style-type: none"> <li>- extensively fractured along plane parallel to the core axis</li> <li>- fractures filled with calcite and pyrite</li> <li>- actinolite halo around fractures and in small fractures</li> <li>- converted 90% to chlorite</li> <li>- marginal to chlorite shear zone (but no shearing)</li> </ul>																						
115.2	117.4	<p>Highly altered schist and skarn</p> <ul style="list-style-type: none"> <li>- cut by many quartz calcite filled fractures</li> <li>- calcite not present in rock</li> <li>- biotite often bleached white (quartz)</li> <li>- often core is a greenish clay (chlorite?)</li> </ul> <p>116.0 - 116.2 - black non-calcareous graphitic bands</p> <ul style="list-style-type: none"> <li>- with slightly brecciated remenant foliation bands</li> </ul> <p>Core Angle: @ 116.6 - 45°</p>																						
117.4	118.9	<p>Very highly altered breccia zone</p> <ul style="list-style-type: none"> <li>- very calcareous with poor core recovery</li> <li>- calcite and pyrite in fractures</li> <li>- rare pyrrhotite</li> <li>- evidence of shearing</li> <li>- 80% chlorite</li> </ul>																						
118.9	119.8	<p>Quartz Diopside Skarn</p> <ul style="list-style-type: none"> <li>- fractures filled with chlorite/actinolite/calcite/pyrrhotite</li> <li>- remenant foliation</li> </ul> <p>118.9 - 119.0 - .1% WO<sub>3</sub></p> <p>119.0 - 119.8 - Trace WO<sub>3</sub> - .05 WO<sub>3</sub></p>																						
119.8	140.4	<p>Intercalated Schist and skarn</p> <ul style="list-style-type: none"> <li>- calcite rare except in fractures</li> <li>- zones of up to .4 m skarn with trace scheelite - 0.5% scheelite</li> </ul> <p>135.9 - 136.5 - .1% WO<sub>3</sub> in skarn developed around a calcite/ pyrrhotite filled fracture close to parallel to the core axis</p> <ul style="list-style-type: none"> <li>- scheelite is disseminated</li> </ul> <p>138.4 - 140.4 - marginal to biotite schist</p> <ul style="list-style-type: none"> <li>- no calcite or scheelite</li> </ul> <p>139.2 - 139.4 - very fine grained quartz feldspar porphyry dike</p> <ul style="list-style-type: none"> <li>- feldspar porphyries .1 - 1 mm</li> </ul> <p>Core Angles:</p> <table border="0"> <tr> <td>@ 120.5 - 67°</td> <td>@ 127.8 - 59°</td> <td>@ 132.0 - 71°</td> <td>@ 138.4 - 52°</td> </tr> <tr> <td>@ 121.6 - 61°</td> <td>@ 129.2 - 57°</td> <td>@ 133.6 - 58°</td> <td>@ 139.9 - 65°</td> </tr> <tr> <td>@ 123.5 - 59°</td> <td>@ 130.5 - 73°</td> <td>@ 135.1 - 57°</td> <td>@ 140.8 - 61°</td> </tr> <tr> <td>@ 124.7 - 73°</td> <td></td> <td>@ 137.0 - 57°</td> <td></td> </tr> <tr> <td>@ 126.2 - 66°</td> <td></td> <td></td> <td></td> </tr> </table>	@ 120.5 - 67°	@ 127.8 - 59°	@ 132.0 - 71°	@ 138.4 - 52°	@ 121.6 - 61°	@ 129.2 - 57°	@ 133.6 - 58°	@ 139.9 - 65°	@ 123.5 - 59°	@ 130.5 - 73°	@ 135.1 - 57°	@ 140.8 - 61°	@ 124.7 - 73°		@ 137.0 - 57°		@ 126.2 - 66°					
@ 120.5 - 67°	@ 127.8 - 59°	@ 132.0 - 71°	@ 138.4 - 52°																					
@ 121.6 - 61°	@ 129.2 - 57°	@ 133.6 - 58°	@ 139.9 - 65°																					
@ 123.5 - 59°	@ 130.5 - 73°	@ 135.1 - 57°	@ 140.8 - 61°																					
@ 124.7 - 73°		@ 137.0 - 57°																						
@ 126.2 - 66°																								



## DEPTH

## DESCRIPTION OF CORE

Page 7 of 7

From

To

		159.3 - 160.2 - Bleached biotite
		160.2 - 160.3 - Quartz graphite breccia - slightly calcareous
		165.0 - 165.5 - Bleached biotite
		167.3 - 168.2 - major quartz vein with chlorite/diopside/actinolite/ porphyry
		168.2 - 168.3 - Quartz feldspar porphyry dike 1-2 mm feldspar phenocrysts, less than 10% mafics trace unknown pink mineral
		169.2 - Quartz feldspar porphyry dike
		169.7 - 170.2 - Intercalated with rotted biotite near quartz vein
		170.2 - 170.4 - quartz vein with diopside bleached margins .1 mm either side 1.1 m of quartz breccia with light green calcareous matrix
		171.3 - 171.5 - diopside skarn with remanent foliation and trace scheelite
		171.5 - 172.2 - 10% bleached biotite schist
		172.2 - 172.4 - quartz feldspar porphyry dike with light green margin at lower contact
		172.4 - 174.8 - bleached biotite schist
		Core Angles: @ 161.6 - 70°
		@ 158.4 - 70° @ 169.6 - 68°
		@ 160.1 - 63° @ 171.9 - 66°
		@ 163.1 - 69° @ 173.6 - 52°
		@ 164.3 - 57° @ 174.7 - 38°
		@ 166.8 - 56°
174.8	178.9	Porphyry/diopside/garnet skarn - scheelite mineralized - remanent foliation Sulphide disseminated in matrix between quartz/diopside anhedral crystals. Also massive in quartz veins. Along major fractures & fracture intersections pyrite (10% total sulphides) at pyrrhotite diopside/quartz contacts chalcopyrite and along the smallest fractures. Chalcopyrite only when sulphides become rare. Greatly reduced sulphides near garnet except chalcopyrite. Garnet is salmon pink.
178.9	184.0	Intercalated schist and skarn 179.0 - 179.1 - quartz feldspar porphyry dike 179.4 - quartz feldspar porphyry dike 179.5 - quartz feldspar porphyry dike 180.5 - 180.9 - quartz feldspar porphyry dike with yellowish green alteration in bands 181.6 - 181.8 - quartz feldspar porphyry dike 181.8 - 184.0 - 80% diopside skarn with trace garnet and disseminated scheelite 182.8 - 183.1 - banding with pinkish quartz along foliation (cut by quartz vein of white quartz)
184.0	184.3	Quartz feldspar porphyry dike
184.3	191.0	Biotite Schist .1 m quartz feldspar porphyry dike .1 m from contact with unknown pink mineral.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 27

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

Mining Division Whitehorse

Hole Nº. 39                      Angle: -73°                      Direction: 258°

Depth: 208.2 m                      Grid Nº.                      Co-Ordinates: 6 + 95N  
11 + 30W

Date Started: 24 June 1981                      Finished: 29 June 1981                      Logged By: D. Downing

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	14.6	Casing
14.6	14.8	Quartz Feldspar Porphyry dike - dark matrix
14.8	58.2	Quartz Biotite Muscovite schist - biotite schist with interfoliations of quartz (?altered feldspar? and chlorite. Very slightly calcareous with muscovite on the foliation surfaces. Minor quartz veining along foliation with rare alteration along foliation and slight bleaching margins along fractures close to parallel with the core axis. - rust stained along fracture surfaces - sheared surfaces along foliation 22.95 - trace scheelite in quartz diopside skarn with trace unknown pink mineral (?altered garnet?) 24.0 - rare patches of porphyry appearing in fractures in quartz veins * unknown crystals in muscovite schist - appears as breccia next to shear zones +42.0 - appearance of altered rotten biotite schist in 1 cm. bands along foliation to clay/mica seams-probably present uphole but washed away by poorer core recovery 50.0 - 52.0 - Increased quartz veining along foliation with pyrite along fractures 55.5 - 58.2 - Increased quartz veining and calcite content particularly along skarn bands - trace scheelite along foliation 57.0 - 57.2-pyrrhotite bands along foliation in fractures in quartz vein
		Core Angles: @ 15.5 - 47°                      @ 40.8 - 59° @ 19.3 - 49°                      @ 43.3 - 66° @ 22.7 - 50°                      @ 44.8 - 66° @ 25.7 - 59°                      @ 48.6 - 59° @ 29.0 - 51°                      @ 51.0 - 58° @ 32.8 - 54°                      @ 54.0 - 63° @ 37.0 - 65°                      @ 57.4 - 66°

DEPTH		DESCRIPTION OF CORE	Page 2 of 5												
From	To														
58.2	58.2	Highly fractured schist and skarn with calcite veins/chlorite alteration and pyrite along fractures - trace scheelite													
58.5	91.9	<p>Intercalated schist and skarn</p> <ul style="list-style-type: none"> <li>- trace scheelite along foliation</li> <li>- patch pyrrhotite and chlorite along fractures in quartz veins</li> <li>- increased calcite along fractures</li> <li>- up to .5 m skarn sections developed, characterized by fine fractures close to parallel with the core axis</li> </ul> <p>72.4 - 72.5 - graphite and clay with quartz gravel (shear?)</p> <p>85.4 - 85.5 - .6% scheelite est. in pyrrhotite filled fracture zone</p> <ul style="list-style-type: none"> <li>- scheelite associated with increased calcite content</li> </ul> <p>88.4 - 88.5 - .05% scheelite (as in 85.4 - 85.5)</p> <p>Core Angles:</p> <table style="width: 100%; border: none;"> <tr> <td>@ 60.5 - 64°</td> <td>@ 78.0 - 57°</td> </tr> <tr> <td>@ 63.4 - 64°</td> <td>@ 81.2 - 63°</td> </tr> <tr> <td>@ 67.4 - 70°</td> <td>@ 85.2 - 57°</td> </tr> <tr> <td>@ 69.8 - 73°</td> <td>@ 88.3 - 58°</td> </tr> <tr> <td>@ 73.6 - 65°</td> <td>@ 91.0 - 55°</td> </tr> <tr> <td>@ 76.8 - 65°</td> <td></td> </tr> </table>	@ 60.5 - 64°	@ 78.0 - 57°	@ 63.4 - 64°	@ 81.2 - 63°	@ 67.4 - 70°	@ 85.2 - 57°	@ 69.8 - 73°	@ 88.3 - 58°	@ 73.6 - 65°	@ 91.0 - 55°	@ 76.8 - 65°		
@ 60.5 - 64°	@ 78.0 - 57°														
@ 63.4 - 64°	@ 81.2 - 63°														
@ 67.4 - 70°	@ 85.2 - 57°														
@ 69.8 - 73°	@ 88.3 - 58°														
@ 73.6 - 65°	@ 91.0 - 55°														
@ 76.8 - 65°															
91.9	94.6	<p>Quartz diopside skarn with quartz veins up to .3 m wide along the foliation</p> <p>cut by fine actinolite?/chlorite and pyrrhotite filled fractures</p> <p>91.9 - 92.1 - quartz vein</p> <p>92.1 - 92.65 - .1% WO<sub>3</sub> est.</p> <p>92.65 - 92.9 - .4% WO<sub>3</sub> est. in quartz vein</p> <p>92.9 - 94.6 - .05% WO<sub>3</sub> est.</p>													
94.6	99.0	<p>Intercalated schist and skarn</p> <ul style="list-style-type: none"> <li>- trace scheelite along foliation</li> </ul> <p>93.05 - 93.3 - quartz vein (with scheelite)</p> <p style="padding-left: 40px;">93.05 - 93.15 - .2% WO<sub>3</sub> est.</p> <p>96.8 - 97.2 - Quartz feldspar porphyry dike (light matrix)</p> <ul style="list-style-type: none"> <li>- with actinolite filled fractures extruded from it</li> <li>- cutting quartz vein at 97.2</li> </ul> <p>97.2 - 97.4 - quartz vein, well fractured with pyrrhotite, pyrite, chlorite, actinolite in fractures</p> <p>98.3 - 98.6 - quartz feldspar porphyry (light matrix)</p> <ul style="list-style-type: none"> <li>- as @ 96.8-97.2 but much smaller</li> </ul> <p>Core Angle: @ 98.0 - 56°</p>													
99.0	100.4	<p>Very clareous and fractured intercalated schist and skarn</p> <ul style="list-style-type: none"> <li>- greyish coloured soft foliated bands between biotite bands</li> <li>- highly fractured with actinolite/chlorite filled fractures</li> <li>calcite/quartz filled fractures</li> <li>pyrrhotite and tr chalcopyrite in fractures</li> </ul> <p>@ 100.0 - 100.2 - Pinkish clcite breccia large fracture</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">in fracture 1. Pyrite</td> <td style="width: 50%;">2. Black chlorite</td> </tr> <tr> <td></td> <td>3. Pyrrhotite 4. @very edge rare cpy</td> </tr> </table> <p>Trace scheelite throughout section associated with fractures</p>	in fracture 1. Pyrite	2. Black chlorite		3. Pyrrhotite 4. @very edge rare cpy									
in fracture 1. Pyrite	2. Black chlorite														
	3. Pyrrhotite 4. @very edge rare cpy														
100.4	102.4	<p>Diopside skarn with good foliation and many very fine fractures</p> <p>100.4 - 101.5 - 0.1% WO<sub>3</sub> est.</p> <p>102.2 - 102.4 - .05% WO<sub>3</sub> est.</p>													
102.4	129.4	Intercalated schist and skarn													

## DEPTH

## DESCRIPTION OF CORE

Page 3 of 5

From	To	
		<p>103.6 - 103.8 - Chlorite filled fracture some with trace scheelite</p> <p>107.6 - 107.7 - Pyrrhotized quartz vein with .6% WO<sub>3</sub> est.</p> <p>108.1 - 108.3 - Calcareous chlorite shear zone</p> <p>109.6 - 109.8 - Slightly brecciated quartz vein with calcite along fractures</p> <p>111.8 - 112.0 - .05% WO<sub>3</sub> est.</p> <p>112.3 - 113.0 - .05% WO<sub>3</sub> est.</p> <p>115.2 - 115.8 - Graphitic, pyritic, calcareous chlorite mud (highly fractured and altered diopside skarn?)</p> <p>120.0 - 120.2 - Highly fractured, calcite/quartz veined and bleached calcareous biotite schist</p> <p>122.5 - 122.8 - Quartz vein parallel to foliation .1% WO<sub>3</sub></p> <p>124.7 - 124.9 - 0.1% WO<sub>3</sub> est.</p> <p>127.0 - 127.2 - Calcareous, pyritic chlorite alteration zone</p> <p>Core Angles:</p> <p>@ 102.4 - 50° @ 119.3 - 55°</p> <p>@ 105.2 - 51° @ 122.2 - 55°</p> <p>@ 107.1 - 57° @ 124.3 - 63°</p> <p>@ 110.3 - 61° @ 126.3 - 57°</p> <p>@ 118.4 - 35° @ 129.0 - 57°</p>
129.4	131.25	Zone of highly altered, fractured, calcareous and bleached (schist?) ranges from graphitic mud to grey-green brecciated skarn (?) with remanent foliation
131.25	132.40	Garnet Diopside skarn (Diopside) - very finely disseminated pyrrhotite and patch pyrrhotite with rare garnet patches - framed by pyrrhotized quartz veins - .1 m chloritic alteration zone @ 131.80 - 131.90 - remanent foliation 131.9 - 132.4, 131.75-131.40, 131.40-131.75, 131.75-132.25, 132.25-132.40
134.1	134.95	Intercalated schist and skarn with trace scheelite along foliation where calcareous 134.0 - 0.5m quartz feldspar porphyry dike (Light matrix) - with unknown black and pink crystals (pink-altered garnet?) Similar dikes @ 134.2 and 134.5 Core Angle: @ 134.1 - 56°
134.95	136.9	Intercalated schist and skarn Scheelite estimate - .05% - 134.95-136.35 136.35-136.75 - WO <sub>3</sub> 0.1% pyrrhotite assoc. Core Angle - @ 137.1 - 62°
136.9	149.0	Schist and skarn - cross cutting calcite fractures trace scheelite, associated with trace pyrrhotite in fractures - vertical quartz veins, conformable calcite veins 1 cm. thick 148.7 - 148.95 - Broken skarn/schist, highly fractured with calcite Core Angles: @ 140.3 - 30° @ 143.3 - 41° @ 146.3 - 38°
149.0	151.0	Diopside Garnet skarn - massive pyrrhotite, traces of chalcopryrite. Some alteration to chlorite and pyrite Scheelite - 149.3 - 149.85 - .05% est. 149.85-150.83 - .2% est. 150.38-150.73 - 2.0% est.

DEPTH		DESCRIPTION OF CORE	Page 4 of 5
From	To		
151.0	162.8	150.87 - 151.1 - 2.0% est. 151.1 - 151.38- 0.6% est.	
		Core Angles: @ 149.0 - 37° @ 151.2 - 36°	
162.9	168.5	Schist and Skarn 151.5 - 151.8 - thinly laminated, wavy - skarn, black soft massive mineral (chlorite) - high proportion of pyrrhotite forming laminations parallel to foliation 152.21- 152.86-Scheelite .4% , massive pyrrhotite, some alteration to chlorite and pyrite, trace chacopyrite, garnet present 152.86- 155.3 - garnet diopside skarn, massive pyrrhotite found along foliation, trace scheelite 153.3 - 153.5 - quartz vein, conformable, pyrrhotite, pyrite and chlorite found in quartz 155.3 - 156.5 - breccia, calcite infilling 157.45- 158.48-schist and skarn, pyrrhotite, trace garnet. scheelite estimate 0.4% 158.5 - 159.15- quartz vein 159.65- trace scheelite 161.8 - 162.6 - marble schist	
		Core Angles @ 153.2 - 33° @ 161.0 - 22° @ 157.0 - 39°	
168.5	178.0	Garnet diopside skarn with some grey beds 162.9 - 163.0 - quartz vein with pyrrhotite and trace scheelite Trace scheelite throughout run 164.7 - 166.7 - Breccia zone; calcite infilling; trace scheelite with short high grade zones - vertical fracturing with calcite infilling, grey beds 168.1 - vertical fracture cut by a conformable fracture showing displacement. Both are filled with calcite. at least 2 episodes of CaCO <sub>3</sub> mobilization	
		Core Angles: @ 163.0 - 32° @ 168.5 - 17° @ 165.2 - 27°	
		Biotite schist - some small beds of skarn - vertical fractures with calcite and pyrite 168.75 - 169.45 - fracture zone, crumbly, calcite present blue powder substance on the surface of the rock fragments, pyrite present 169.6 - shear surface, pyrite present 169.8 - fracture zone, blue powder, pyrite 170.3 - 171.4 - broken and rotted along foliation 171.8 - Breccia - dark semiconsolidated muddy material - calcite infilling 172.6 - shear - calcite 173.3 - quartz vein with pyrrhotite margin and chlorite inclusion 174.8 - 175.1 - quartz veins .05 m thick 175.8 - 175.9 - quartz vein, pyrrhotite, trace scheelite 176.0 - small vertical quartz feldspar dike 177.4 - small conformable quartz vein	
		Core Angles: @ 170.3 - 26° @ 175.3 - 34° @ 172.0 - 39° @ 177.7 - 38° @ 174.0 - 27°	

DEPTH		DESCRIPTION OF CORE	Page 5 of 5
From	To		
178.0	182.6	<p>Schist and skarn</p> <p>178.6 - vertical fracture - calcite, pyrite, trace scheelite</p> <p>179.9 - 180.1 - quartz vein, pyrrhotite with trace schæelite</p> <p>180.5 - 181.0 - intercalated skarn, schist with grey beds</p> <p>181.0 and 181.2 - quartz feldspar dike</p> <p>180.6 - vertical small quartz feldspar dike</p> <p>181.6 - vertical small quartz feldspar dike ( 2 cm.)</p> <p>181.95- 182.51-garnet, pyrrhotite, trace chalcopyrite scheelite .05%</p> <p>Core Angles: @ 179.0 - 22° @ 181.0 - 32°</p>	
182.6	190.1	<p>Garnet, diopside skarn - pyrrhotite, trace chalcopyrite, vertical fractures with calcite (chlorite, pyrite)</p> <p>Scheelite est. - 182.51 - 183.20 - 0.1%</p> <p>183.20 - 183.90 - 0.2%</p> <p>183.90 - 185.35 - 0.05%</p> <p>185.35 - 185.63 - 0.1%</p> <p>185.63 - 186.49 - 0.6%</p> <p>186.49 - 186.84 - 0.8%</p> <p>186.84 - 187.51 - 0.4%</p> <p>187.51 - 188.81 - 0.8%</p> <p>186.0 - 186.1 - conformable quartz vein</p> <p>189.3 - quartz feldspar dike (2 cm.)</p> <p>Core Angles: @ 182.0 - 23° @ 186.0 - 33° @ 184.5 - 32° @ 189.7 - 30°</p>	
190.1	192.5	<p>Schist and skarn - vertical quartz fractures - trace scheelite</p> <p>190.6 - shear fracture, massive pyrrhotite, calcite, chlorite, pyrite</p> <p>190.9 - 191.3 - quartz feldspar dike, schist zenolith, trace pyrrhotite.</p> <p>191.1 - calcite filled fracture</p> <p>192.0 - 192.1 - quartz vein, trace pyrrhotite</p> <p>Core Angle: @ 192.5 - 32°</p>	
192.5	196.0	<p>Garnet Diopside Skarn - red garnet, pyrrhotite trace scheelite throughout</p> <p>193.0 - 193.3 - quartz vein, trace pyrrhotite, chlorite</p> <p>Scheelite est. - 193.22 - 193.94 - 0.40%</p> <p>193.94 - 194.60 - 0.05%</p> <p>195.13 - 195.51 - 0.6%</p> <p>196.0 - Contact with quartz monzonite intrusive</p> <p>Core Angles: @ 194.0 - 46° @ 195.5 - 70°</p>	
196.0	208.0	<p>Quartz monzonite intrusives, some quartz veins present</p> <p>196.7 - 196.75 - biotite schist zenolith</p> <p>199.2 - 1993. - chlorite</p> <p>Within 2 m of the contact there is evidence of assimilation of host rock in the presence of greater mica enrichment and textural differences.</p>	

## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 27

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

Mining Division Whitehorse

Hole Nº. 40

Angle: -78°

Direction: 278°

Depth: 247.8 m

Grid Nº.

Co-Ordinates: 7 + 07N

12 + 16W

Date Started: 29 June 1981

Finished: 5 July 1981

Logged By: M. Nicol  
and D. Lincoln

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 4
From	To		
0.0	10.1	Casing	
10.1	11.1	Intercalated skarn and grey beds, broken fragmented rock at 10.6 no reaction with acid	
11.1	76.0	Biotite schist, some intercalated with minor skarn, chlorite, because core is close to surface-biotite schist rotting to gossen, chlorite Conformable quartz stringers parallel to foliation 28.0 - evidence of ductile strain - change in dip angle 40.80 - quartz stringer with trace pyrrhotite found in the small conformable stringers 64.1 - 64.8 and 65.7 - 66.1 - rotted, fragmented zones with presence of chlorite and minor skarn	
		Core Angles:	
		@ 10.1 - 37°	@ 33.3 - 42°
		@ 14.4 - 27°	@ 37.0 - 44°
		@ 17.0 - 32°	@ 38.0 - 40°
		@ 20.0 - 39°	@ 42.1 - 37°
		@ 22.1 - 33°	@ 44.5 - 34°
		@ 25.3 - 36°	@ 48.0 - 56°
		@ 27.5 - 37°	@ 50.6 - 30°
		@ 31.7 - 44°	@ 56.2 - 38°
76.0	157.0	Schist and skarn - conformable quartz veins, some veins containing pyrite and pyrrhotite - vertical fractures with calcite infilling and quartz infilling - schist and skarn ratio 45% schist, 55% skarn on average 77.25 - 77.4 - shearing breccia zone with core angle at 60° with minor pyrite and calcite infilling 80.2 - 90.2 - broken fragmented schist and skarn with gossen staining, larger conformable quartz veins show more pyrrhotite 91.8 - 93.3, 94.5-96.3 - rotting fragmented schist skarn and quartz veins	

DEPTH

DESCRIPTION OF CORE

From	To
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102.0 - 103.7 - fragmented, rotting zone, schist and skarn  
 104.1 - 104.4 - fragmented, rotting zone, schist and skarn  
 108.5 - 109.4 - fragmented, rotting zone, schist and skarn  
 with gossan staining  
 107.2 - 107.4 - fracture zone, quartz vein with biotite showing  
 leached biotite quartz transition  
 112.1 - 113.3 - skarn zone with verticle fractures, calcite infilling  
 some chlorite present  
 113.3 - 120.1 - rotting fragmented zone with calcite fracturing  
 128.4 - 128.8 - calcite filled verticle fracture approx. 1 cm wide  
 verticle fractures becoming more common  
 144.1 - 144.8 - quartz vein, conforming to bedding  
 147.2 - 148.65-quartz vein, with pyrrhotite, chlorite  
 150.9 - 151.1 - trace scheelite  
 151.9 - massive pyrrhotite in calcite fracturing with tr scheelite  
 152.4 - 154.1 - trace scheelite in skarn  
 scheelite estimate - .2% from 153.3 - 154.1  
 in skarn pyrrhotite, trace chalcopyrite calcite fractures

Core Angles:

@ 77.0 - 40°	@ 103.8 - 32°	@ 126.2 - 38°	@ 150.0 - 27°
@ 80.0 - 30°	@ 105.5 - 16°	@ 129.2 - 37°	@ 151.0 - 23°
@ 82.0 - 30°	@ 108.0 - 30°	@ 132.5 - 32°	@ 154.0 - 50°
@ 85.4 - 42°	@ 110.0 - 26°	@ 133.4 - 32°	
@ 87.0 - 30°	@ 113.4 - 12°	@ 138.6 - 22°	
@ 90.0 - 29°	@ 117.0 - 33°	@ 141.4 - 26°	
@ 96.3 - 41°	@ 120.5 - 39°	@ 144.0 - 23°	
@ 98.4 - 40°	@ 123.0 - 39°	@ 146.8 - 30°	

157.0 160.5

Skarn Zone  
 157 - 158.3 - chloride rich skarn  
 158.6 - 159.4 - scheelite estimate of .1%  
 159.4 - 160.3 - scheelite estimate of .6%  
 - disseminated pyrrhotite associated with chlorite and minor pyrite  
 - calcite infilling associated with chlorite

Core Angles:

@ 157.0 - 38°  
 @ 154.8 - 60°

160.5 162.0

Schist and skarn with verticle fractures and calcite infilling -  
 fractures associated with pyrite

162.0 163.6

Skarn zone with quartz veining, verticle fractures with pyrrhotite

163.6 194.5

Schist and skarn  
 163.8 - 164.7 - rotting zone chlorite in schist and skarn  
 165.0 - 166.9 - rotting zone fracturing distorted bedding breccia  
 zone with trace scheelite, chlorite rotting mud  
 167.7 - 168.6 - rotting, brecciated zone with chlorite mud  
 169.0 - 170.2 - rotted zone high % skarn with pyrite (minor)  
 fractured infilled with calcite  
 170.4 - 173.3 - broken fractured zone with disseminated pyrite, trace  
 scheelite found along verticle fractures  
 174.1 - 176.2 - skarn rich (90% skarn) zone with trace chalcopyrite,  
 scheelite, pyrrhotite  
 at 174.3 - unknown dark, metallic mineral  
 178.0 - 178.4 - skarn rich zone, trace scheelite, fractures with  
 calcite infilling, pyrrhotite, pyrite

DEPTH		DESCRIPTION OF CORE	Page 3 of 4												
From	To														
		<p>178.7 - 179.4 - trace scheelite, trace pyrrhotite in a skarn rich zone</p> <p>181.6 - 183.5 - skarn, diopside, with scheelite from 182.3 - 183.5 - scheelite estimate of .6%</p> <p>- skarn contains chalcopyrite in quartz veins, some chlorite with associated pyrite</p> <p>187.4 - 187.9 - garnet diopside with trace scheelite and trace pyrrhotite - fracture with quartz stringers, pyrite pyrrhotite, chlorite infilling</p> <p>*-increasing frequency of quartz veining with mineralization zones in fractures</p> <p>191.5 - large quartz vein with massive pyrrhotite</p> <p>Core Angles:</p> <table> <tr> <td>@ 161.6 - 45°</td> <td>@ 176.6 - 16°</td> </tr> <tr> <td>@ 163.7 - 49°</td> <td>@ 180.1 - 16°</td> </tr> <tr> <td>@ 167.1 - 20°</td> <td>@ 181.6 - 38°</td> </tr> <tr> <td>@ 170.4 - 34°</td> <td>@ 184.1 - 34°</td> </tr> <tr> <td>@ 172.0 - 30°</td> <td>@ 186.8 - 23°</td> </tr> <tr> <td>@ 174.0 - 37°</td> <td>@ 190.2 - 26°</td> </tr> </table>	@ 161.6 - 45°	@ 176.6 - 16°	@ 163.7 - 49°	@ 180.1 - 16°	@ 167.1 - 20°	@ 181.6 - 38°	@ 170.4 - 34°	@ 184.1 - 34°	@ 172.0 - 30°	@ 186.8 - 23°	@ 174.0 - 37°	@ 190.2 - 26°	
@ 161.6 - 45°	@ 176.6 - 16°														
@ 163.7 - 49°	@ 180.1 - 16°														
@ 167.1 - 20°	@ 181.6 - 38°														
@ 170.4 - 34°	@ 184.1 - 34°														
@ 172.0 - 30°	@ 186.8 - 23°														
@ 174.0 - 37°	@ 190.2 - 26°														
194.5	197.1	<p>Garnet diopside skarn with scheelite</p> <p>194.9 - 196.6 - scheelite estimate of .05%</p> <p>196.6 - 197.1 - scheelite estimate of .6%</p> <p>skarn contains minor pyrite, pyrrhotite and chlorite</p>													
197.1	211.6	<p>196.1 - 198.2 - brecciated, fragmented, rotting rock with semi-consolidated chlorite mud. Calcite present in fractures, quartz stringers throughout</p> <p>*intercalated schist, skarn and grey beds with quartz carbonate alteration throughout the zone</p> <p>- both conformable and verticle fractures, with calcite infilling</p> <p>- some minor garnet in zone near fractures</p> <p>- bedding is distored in some quartz carbonate beds</p> <p>209.2 - 209.3 - brecciated zone with pyrite and chlorite</p> <p>Core Angles:</p> <table> <tr> <td>@ 192.9 - 28°</td> <td>@ 207.3 - 43°</td> </tr> <tr> <td>@ 196.1 - 50°</td> <td>@ 210.2 - 37°</td> </tr> <tr> <td>@ 199.0 - 25°</td> <td>@ 213.7 - 70°</td> </tr> <tr> <td>@ 202.0 - 0°</td> <td>@ 216.8 - 37°</td> </tr> <tr> <td>@ 204.3 - 37°</td> <td></td> </tr> </table>	@ 192.9 - 28°	@ 207.3 - 43°	@ 196.1 - 50°	@ 210.2 - 37°	@ 199.0 - 25°	@ 213.7 - 70°	@ 202.0 - 0°	@ 216.8 - 37°	@ 204.3 - 37°				
@ 192.9 - 28°	@ 207.3 - 43°														
@ 196.1 - 50°	@ 210.2 - 37°														
@ 199.0 - 25°	@ 213.7 - 70°														
@ 202.0 - 0°	@ 216.8 - 37°														
@ 204.3 - 37°															
211.6	215.0	<p>Schist and skarn. Skarn is garnet diopside skarn with fractures including caclite with associated pyrite and chalcopyrite; disseminated pyrrhotite</p> <p>Scheelite Estimates - 211.9 - 213.1 - .1%</p> <p>213.1 - 214.5 - .05%</p>													
215.0	218.0	<p>Garnet diopside skarn - vertical fractures, quartz veins with massive pyrrhotite associated pyrite, pyrrhotite in massive form along margins of quartz veins</p> <p>217.2 - 217.9 - rotting, fragmented zone</p>													
218.0	225.0	<p>Biotite schist with minor skarn</p> <p>Conformable quartz stringers with calcite infilling in fractures</p> <p>minor calcite</p> <p>Core Angles:</p> <p>@ 219.6 - 43°</p>													

DEPTH		DESCRIPTION OF CORE	Page 4 of 4
From	To		
225.0	232.5	<p>Schist and skarn with verticle fractures with calcite quartz stringers disseminated pyrrhotite</p> <p>225.4 - 227.9 - felsic dike, massive texture. homogeneous structure 20% muscovite mica, 50% at 226.2 - 226.3 - massive crystalline calcite vein</p> <p>pyrite crystals in dike fractures</p> <p>228.7 - 228.9 - fragmented rotting calcite present</p> <p>231.2 - 231.9 - brecciated zone, quartz and calcite veins intercalated minor pyrite, chalcopryrite in fractured zones</p> <p>quartz carbonate in breccia</p> <p>massive pyrrhotite crystalline pyrite</p> <p>Core Angles: @ 221.4 - 30° @ 225.0 - 45° @ 228.0 - 27° @ 229.7 - 25° @ 232.0 - 34°</p>	
232.5	237.0	<p>Diopside skarn with garnet</p> <p>verticle fractures, calcite infilling, disseminated pyrrhotite conformable quartz veins with associated pyrrhotite</p> <p>236.4 - shear zone richin chlorite, calcite</p> <p>237.0 - contact with quartz monzonite intrusive</p> <p>Core Angle: @ 234.6 - 44°</p>	
237.0	250.2	<p>Intrusive</p> <p>Quartz stringers - some assimilation near contact</p> <p>Quartz veins</p> <p>Zenolith in intrusive quartz monzonite</p> <p>At contact mineralized zone of pyrrhotite</p> <p>*242.6 - assimilated skarn with massive pyrrhotite present</p> <p>*243.2 - assimilated skarn with massive pyrrhotite, chlorite, alteration, pyrite</p>	

## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 27

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

Mining Division Whitehorse

Hole Nº. 41

Angle: -70°

Direction: 225°

Depth: 292.6 m

Grid Nº.

Co-Ordinates: 7 + 44N  
13 + 50W

Date Started: July 6, 1981

Finished: July 15, 1981

Logged By: D. Lincoln

Drilled By: Caron Diamond Drilling

M. Nicol

DEPTH		DESCRIPTION OF CORE	PAGE 1 of 5
From	To		
0.0	15.9	Casing	
15.9	38.3	Quartz feldspar porphyry - dark matrix Described in maps as diorite dike Comp pheno's feldspar quartz Size of phenos - 2.3 mm matrix - mafics Colour - purple Dike is fractured with gossan staining There are some quartz strings 27.6 - 29.3 - breccia zone, semi consolidated	
38.3	39.5	Breccia zone - calcite infilling - black semi consolidated mud	
39.5	125.7	Biotite Schist - some very minor skarn at random intervals - conformable quartz stringers ranging size from 1 cm to 20 cm (chlorite with pyrite and pyrrhotite along margins) - minor vertical fracturing 50.1 - 61.2 - broken gossan staining - some rotted rock, poor recovery 66.3 - 86.9 - Broken gossan staining - some rotted rock, poor recovery 91.9 - 106.2- Quartz stringer rich zone, skarn found within the quartz; trace pyrrhotite and pyrite are found associated with the quartz chlorite 97.8 - 98.8 - Diopside skarn with pyrite and calcite 102.8 -103.2- Rotted zone 104.9 -105.7 - Diopside skarn with pyrite and calcite	
		Core Angles:	
		@ 40.0 - 21°	@ 67.8 - 23°
		@ 42.7 - 26°	@ 70.7 - 21°
		@ 46.6 - 28°	@ 76.6 - 37°
		@ 49.4 - 31°	@ 77.7 - 36°
		@ 54.0 - 37°	@ 80.1 - 28°
		@ 59.1 - 36°	@ 82.4 - 37°
		@ 61.1 - 23°	@ 84.8 - 38°
		@ 64.8 - 24°	@ 86.6 - 28°
		@ 89.0 - 30°	@ 116.0 - 24°
		@ 92.2 - 36°	@ 120.1 - 22°
		@ 96.8 - 30°	@ 123.2 - 23°
		@ 99.0 - 27°	@ 124.8 - 26°
		@ 103.6 - 32°	@ 125.7 - 23°
		@ 106.7 - 27°	
		@ 110.6 - 23°	
		@ 113.1 - 18°	

DEPTH		DESCRIPTION OF CORE	Page 2 of 5
From	To		
125.7	142.6	<p>Schist and skarn</p> <ul style="list-style-type: none"> <li>- various quartz stringers</li> <li>- small vertical fracturing with calcite in filling</li> <li>- trace scheelite &amp; pyrrhotite are found associated with both quartz and calcite fractures throughout run</li> </ul> <p>128.2 - 128.3 - Minor rotting zones, gossan staining  133.4 - 133.7 - no major calcite  136.6 - 136.75- rotted zone, broken mud, minor calcite  139.9 - 141.0 - diopside skarn rich zone. Trace pyrrhotite and scheelite associated with vertical fracturing</p> <p>Core Angles:  @ 129.0 - 33° @ 136.1 - 37°  @ 132.0 - 34° @ 139.1 - 24°  @ 134.2 - 32° @ 142.0 - 26°</p>	
142.6	148.8	<p>Diopside skarn</p> <ul style="list-style-type: none"> <li>- minor biotite schist</li> <li>- conformable quartz strings with associated pyrrhotite and scheelite</li> </ul> <p>145.2 - 146.2 - vertical fracturing and broken zone with associated calcite</p> <p>Core Angles:  144.1 - 22° @ 147.8 - 19°</p>	
148.8	170.6	<p>Schist and skarn</p> <ul style="list-style-type: none"> <li>- conformable quartz stringers some have minor trace pyrrhotite &amp; scheelite</li> <li>- vertical fracturing with some associated trace scheelite and calcite infilling, also trace pyrrhotite</li> </ul> <p>151.1 - 151.2 - high grade scheelite approx. .4% large crystals  - some vertical fracturing shows displacement; there is chlorite actinolite infilling and there is a leached margin around the fracture  - small distorted areas throughout sequence with associated chlorite  158.5 - 162.7 - skarn rich, trace scheelite  161.5 - 162.27- scheelite est. .1%  163.3 - 166.4 - diopside skarn rich  - increase in scheelite %  169.1 - 169.5 - rotten core (?) skarn rich high calcite content</p> <p>Core Angles:  @ 149.6 - 28° @ 163.1 - 27°  @ 152.4 - 26° @ 165.7 - 29°  @ 156.3 - 26° @ 168.3 - 26°  @ 160.2 - 28°</p>	
170.6	181.5	<p>Biotite Schist - minor amounts of skarn</p> <ul style="list-style-type: none"> <li>- conformable quartz stringers</li> <li>- vertical fractures with calcite infilling, there is a marked increase in calcite in this area</li> </ul> <p>174.8 - 175.3 - rotted zone  177.8 - 178.4 - Diopside skarn rich (garnet)  - trace pyrrhotite and scheelite (.05%)</p> <p>Core Angles:  @ 171.3 - 27° @ 176.9 - 30°  @ 174.3 - 28° @ 179.3 - 26°</p>	
181.5	230.6	<p>Schist and skarn</p> <ul style="list-style-type: none"> <li>- conformable quartz strings</li> <li>- vertical fractures with calcite</li> <li>- trace scheelite and pyrrhotite</li> </ul>	

## DEPTH

## DESCRIPTION OF CORE

Page 3 of 5

From	To	
		182.6 - 184.0 - .05% WO <sub>3</sub> - skarn rich-chlorite, pyrrhotite
		188.3 - 191.1 - rotting zone with some breccia - large proportion of calcite especially in semi-consolidated mud zones - trace scheelite - chlorite
		191.1 - 192.1 - distorted fractures some with calcite - trace scheelite and pyrrhotite - chlorite
		205.0 - 205.9 - .05% WO <sub>3</sub>
		208.65- 209.55- .05% WO <sub>3</sub>
		209.8 - 209.9 - rotting core, trace pyrite
		210.8 - 210.75- rotting core, trace pyrite
		211.1 - 215.3 - rotting core, fracturing, calcite infilling - chlorite, pyrite, trace scheelite
		226.95- 227.53- 1.5% WO <sub>3</sub> )
		227.53- 228.43- 0.2% WO <sub>3</sub> )
		228.43- 229.93- 0.6% WO <sub>3</sub> ) Diopside skarn rich
		229.93- 231.2 - 0.4% WO <sub>3</sub> ) pyrrhotite disseminated chlorite
		231.2 - 232.65- 0.4% WO <sub>3</sub> ) and pyrite along fractures
		232.65-234.1 - 0.4% WO <sub>3</sub> ) Trace chalcopyrite
		234.1 - 235.65- 0.6% WO <sub>3</sub> )
		235.65- 237.1 - 0.6% WO <sub>3</sub> )
		Core Angles:
		@ 182.7 - 21° @ 197.1 - 29° @ 210.6 - 06° @ 224.6 - 23°
		@ 184.7 - 23° @ 200.1 - 21° @ 215.5 - 23° @ 227.9 - 22°
		@ 187.4 - 26° @ 203.5 - 23° @ 217.2 - 12° @ 229.1 - 12°
		@ 192.2 - 22° @ 206.2 - 08° @ 219.7 - 26° @ 232.4 - 25°
		@ 193.9 - 23° @ 209.2 - 12° @ 221.6 - 17° @ 233.6 - 27°
230.6	237.1	Diopside skarn - conformable quartz stringers - vertical quartz and calcite fractures - minor biotite (?) - ore grade - scheelite (refer above) - disseminated pyrrhotite - trace chalcopyrite - fracture zones contain chlorite and pyrite
237.1	245.3	Schist and skarn - conformable quartz stringers - vertical fractures - calcite - some massive pyrrhotite - trace scheelite in skarn rich beds Core Angles: @ 237.1 - 25° @ 241.7 - 16° @ 244.1 - 12°
245.3	246.2	Biotite schist 245.9 - 246.2 - rotted zone with calcite Core Angle: @ 245.5 - 14°
246.2	256.9	Intercalated skarn and grey beds - garnet present - conformable quartz stringers with chlorite & pyrite - vertical calcite fractures - scheelite 247.5 - 248.0 - fragmented, distorted bedding - minor graphite - minor pyrite

DEPTH

DESCRIPTION OF CORE

From	To	
		226.95 - 227.53 - 1.5% WO <sub>3</sub> ) 227.53 - 228.53 - 0.2% ) 228.43 - 229.93 - 0.6% ) 229.93 - 231.2 - 0.4% ) 231.2 - 232.65 - 0.4% ) 232.65 - 234.1 - 0.4% ) 234.1 - 235.65 - 0.6% ) 235.65 - 237.1 - 0.6% ) Diopside skarn rich pyrrhotite disseminated chlorite and pyrite along fractures trace chalcopyrite
256.9	264.3	Core Angles: @ 248.2 - 16° @ 253.2 - 22° @ 249.0 - 08° @ 256.0 - 19° Diopside garnet skarn - quartz stringers with pyrrhotite (trace chalcopyrite) - vertical calcite fractures - massive pyrrhotite - minor pyrite, chlorite - trace chalcopyrite Ore grade scheelite 256.97 - 257.50 - 0.05% WO <sub>3</sub> 257.5 - 258.22 - 1.0 % 258.22 - 259.30 - 0.6 % 259.30 - 259.88 - 0.6 % 259.88 - 260.78 - 3.0 %* 260.78 - 261.23 - 2.0 %* 261.23 - 261.92 - 1.5 %* 261.92 - 263.41 - 0.8 % 263.41 - 264.41 - 0.6 % 264.41 - 265.21 - 0.2 % Core Angles: @ 259.3 - 24° @ 263.3 - 26°
264.3	282.44	Biotite schist and diopside garnet skarn - quartz stringers, vertical calcite fracture - massive pyrrhotite - scheelite - chlorite, pyrite along fractures 264.41 - 265.21 - 0.2% WO <sub>3</sub> 265.21 - 266.31 - 0.05% 266.31 - 267.81 - 0.05% 267.81 - 269.21 - 0.05% 269.21 - 270.70 - 0.05% 270.70 - 272.20 - 0.05% 272.20 - 272.38 - 0.5% 272.38 - 273.85 - 2.0%* 273.85 - 275.07 - 0.05% 275.07 - 276.50 - 0.05% 276.50 - 277.93 - 0.1 % 277.93 - 279.38 - 0.1 % 279.38 - 280.68 - 0.2 % 280.68 - 280.95 - 0.0 % 280.95 - 281.84 - 0.05% 281.84 - 282.44 - 0.4% 273.9 - 274.0 - Massive pyrrhotite - trace chalcopyrite, boronite - chlorite

## DEPTH

## DESCRIPTION OF CORE

Page 5 of 5

From

To

Core Angles:  
@ 265.3 - 28°  
@ 270.2 - 23°  
@ 271.5 - 20°  
@ 274.8 - 16°  
@ 277.4 - 12°  
@ 281.0 - 12°  
@ 282.4 - 32°

282.44

292.60

Quartz Monzonite Intrusive  
- quartz stringers  
- calcite Fractures  
- xenoliths  
- evidence of assimilation  
- massive pyrrhotite in fractures



## DEPTH

## DESCRIPTION OF CORE

Page 2 of 4

From	To	
		58.3 - 59.1 - heavily fractured zone, with calcite infilling and gossan staining - 59.25-chlorite, pyrite with trace scheelite
		59.7 - rotted zone - unconsolidated mud
		62.4 - rotted zone - unconsolidated mud
		64.2 - 65.4 - garnet diopside skarn with trace scheelite, pyrrhotite
		Core Angles:
		@ 28 - 18° @ 51.4 - 30°
		@ 31 - 29° @ 54.0 - 42°
		@ 32.6 - 27° @ 57.0 - 25°
		@ 35.0 - 30° @ 59.0 - 25°
		@ 38.0 - 38° @ 62.0 - 22°
		@ 41.7 - 45° @ 64.0 - 29°
		@ 44.0 - 28° @ 68.0 - 24°
		@ 46.2 - 32°
		@ 48.3 - 34°
73.3	77.6	Limestone (marble) alternating light dark band - some vertical fracturing with calcite infilling Core Angles: @ 69.0 - 22° @ 73.0 - 30° @ 76.0 - 37°
77.6	94.5	Schist and skarn - with calcite infilling of vertical fractures, and some broken rotted zones minor limestone beds 81.1 - 81.5 minor limestone beds 81.7 - 82.4 fractured broken zone 83.5 - 84.4 with calcite infilling 87.1 - 87.8 - broken rotted zone with calcite infilling 87.8 - 90.5 - broken fragmented zone with calcite infilling 90.5 - 94.5 - rotted mud zone with calcite infilling throughout the rotted zone trace scheelite in schist and skarn from 87.8 - 89.6 Core Angles: @ 79.0 - 31° @ 89.0 - 24° @ 81.1 - 21° @ 91.5 - 23° @ 84.6 - 22° @ 86.3 - 24°
94.5	97.1	Limestone alternating dark and light beds 95.9 - 96.15- skarn with trace scheelite - diopside garnet skarn Core Angles: @ 95.0 - 22° @ 97.1 - 33°
97.1	110.9	Schist and skarn - mainly broken and fractured, with conformable quartz stringers, vertical fractures infilled with calcite and some trace scheelite 107.85 - 108.80 - scheelite assay .05% with trace chlorite, actinolite, pyrrhotite Core Angles: @ 99.5 - 22° @ 106.0 - 32° @ 103.7 - 31° @ 109.2 - 36°
110.9	112.4	Limestone alternating dark and light bands with some bedding deformation Core Angle: @ 112.0 - 32°
112.4	127.1	Schist and skarn mainly broken fragments with conformable quartz veins, stringers with calcite infilling of vertical fractures

## DEPTH

## DESCRIPTION OF CORE

Page 3 of 4

From	To	
		minor limestone beds at 113.4 - 114.2, 115.0 - 116.0, 120.4 - 121.1
		Core Angles: @ 116.0 - 23° @ 122.8 - 21° @ 120.6 - 23° @ 125.3 - 19°
127.1	130.1	Biotite schist with calcite infilling, vertical fractures minor quartz stringers with some disseminated pyrrhotite Core Angle - @ 129.0 - 19°
130.1	133.4	Schist and skarn - schist with diopside skarn in intercalated laminae with conformable quartz stringers and calcite infilling of vertical fractures 130.8 - 131.4 - garnet diopside skarn with some deformed bedding 132.2 - 132.75- rotted, broken zone 133.0 - 133.5 - broken, fragmented core zone Core Angle: @ 132.8 - 23°
133.4	138.7	Intercalated skarn, schist and grey beds vertical fracturing with calcite infilling, some broken gossan stained zones some minor pyrite mineralization 133.8 - 134.7 - rotted brecciated broken zone Core Angles: @ 136.6 - 31° @ 138.4 - 29°
138.7	167.7	Schist and diopside skarn with scheelite, pyrite, pyrrhotite, chlorite, chalcopyrite mineralization conformable quartz stringers, some vertical fractures with calcite infilling, massive pyrrhotite in places 143.7 - 148.4 - schist and skarn with grey beds, broken with gossan staining Scheelite assays - 140.1 - 141.26 - .05% 141.26 - 141.38 - .2% 141.38 - 142.55 - .05% 148.45 - 148.9 - .05% 148.9 - 149.27 - .6% Core Angles: @ 141.0 - 32° @ 157.3 - 12° @ 145.3 - 32° @ 161.5 - 27° @ 150.0 - 45° @ 165.0 - 28° @ 154.0 - 18° @ 166.5 - 14° Schist and skarn - scheelite assays - 149.27 - 151.10 - 0% 158.66 - 159.00 - .4% 151.0 - 151.84 - .2% 159.00 - 159.80 - .4% 151.84 - 152.2 - 0% 159.80 - 161.28 - 0% 152.2 - 153.06 - .2% 161.28 - 161.81 - .2% 153.06 - 154.5 - 0% 161.81 - 162.86 - 0% 154.5 - 154.96 - .4% 162.86 - 163.60 - 0% 154.96 - 155.42 - 0% 163.60 - 164.54 - .1% 155.42 - 155.92 - .2% 164.54 - 165.12 - 0% 155.92 - 157.38 - 0% 165.12 - 165.55 - 0% 157.38 - 157.51 - .4% 165.55 - 165.80 - .05% 157.51 - 158.25 - .4% 165.80 - 166.55 - .2% 158.25 - 158.66 - 2.0% 166.55 - 167.37 - .4% 167.37 - 167.90 - 0% Core Angles: @ 141.0 - 32° @ 150.0 - 45° @ 157.3 - 12° @ 165.0 - 28° @ 145.3 - 32° @ 154.0 - 18° @ 161.5 - 27° @ 166.5 - 14°

DEPTH		DESCRIPTION OF CORE	Page 4 of 4
From	To		
167.7	178.0	Intrusive quartz monzonite 167.7 - 167.9 - mineralized zone assimilation at top of intrusion vertical fractures with gossan staining, infilled with calcite	

## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 10

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

Mining Division Whitehorse

Hole Nº. 43

Angle: -87°

Direction: 135°

Depth: 244.4

Grid Nº.

Co-Ordinates: 4 + 54N

14 + 51W

Date Started: July 25, 1981

Finished: August 1, 1981

Logged By: D. Lincoln  
M. Nicol

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 4
From	To		
0.0	1.8	Casing	
1.8	35.4	Biotite Schist - conformable quartz stringers - minor skarn, chlorite - badly broken and gossan stained - greater than average amount of muscovite present 17.4 - 17.7 - Breccia 26.5 - vertical fractures with calcite infilling  Core Angles: @ 3.35 - 32° @ 21.00 - 30° @ 6.80 - 37° @ 24.40 - 37° @ 9.80 - 35° @ 27.00 - 38° @ 12.70 - 35° @ 30.20 - 30° @ 15.20 - 37° @ 33.00 - 38° @ 18.60 - 32° @ 35.00 - 31°	
35.4	50.2	Gossan stained grey beds (schist) - beds are all red - conformable quartz stringers, vertical calcite fractures - minor skarn - sequence is broken 36.6 - 37.0 - rotted zone 40.7 - 41.2 - rotted zone 43.3 - 46.4 - unknown dark mineral - angular in habit - individual crystals are approx. .5 mm to 1 mm in size - oriented along foliation - very soft (possible chlorite)  Core Angles: @ 39.0 - 37° @ 43.4 - 33° @ 50.4 - 34° @ 40.5 - 30° @ 47.0 - 33°	
50.2	81.6	Schist and Skarn	

## DEPTH

## DESCRIPTION OF CORE

Page 2 of 4

From	To																
		<ul style="list-style-type: none"> <li>- some gossan staining</li> <li>- broken zones</li> <li>- vertical fractures with calcite infilling</li> <li>- conformable quartz stringers</li> <li>- minor pyrrhotite and scheelite</li> <li>54.9 - 60.9 - large quantity of quartz veins up to a meter thick               <ul style="list-style-type: none"> <li>- 55.5- it can be seen that a calcite vertical fracture cuts the quartz veins</li> </ul> </li> <li>73.45-74.40 - broken rotted zone</li> <li>75.60-77.30 - broken rotted zone</li> <li>76.75 - shear zone, slickensides on calcite</li> <li>Core Angles:               <table style="margin-left: 20px; border: none;"> <tr> <td>@ 53.0 - 38°</td> <td>@ 68.3 - 44°</td> </tr> <tr> <td>@ 54.7 - 36°</td> <td>@ 71.3 - 33°</td> </tr> <tr> <td>@ 57.2 - 60°</td> <td>@ 74.3 - 37°</td> </tr> <tr> <td>@ 60.1 - 41°</td> <td>@ 76.0 - 45°</td> </tr> <tr> <td>@ 63.0 - 42°</td> <td>@ 79.0 - 42°</td> </tr> <tr> <td>@ 66.1 - 41°</td> <td>@ 81.4 - 45°</td> </tr> </table> </li> </ul>	@ 53.0 - 38°	@ 68.3 - 44°	@ 54.7 - 36°	@ 71.3 - 33°	@ 57.2 - 60°	@ 74.3 - 37°	@ 60.1 - 41°	@ 76.0 - 45°	@ 63.0 - 42°	@ 79.0 - 42°	@ 66.1 - 41°	@ 81.4 - 45°			
@ 53.0 - 38°	@ 68.3 - 44°																
@ 54.7 - 36°	@ 71.3 - 33°																
@ 57.2 - 60°	@ 74.3 - 37°																
@ 60.1 - 41°	@ 76.0 - 45°																
@ 63.0 - 42°	@ 79.0 - 42°																
@ 66.1 - 41°	@ 81.4 - 45°																
81.6	105.4	<p>Grey Beds - grey and green beds</p> <ul style="list-style-type: none"> <li>- some gossan staining with broken zones</li> <li>- conformable quartz stringers</li> <li>- abundant vertical calcite fractures</li> <li>- trace scheelite with a few high grade zones. These zones are along foliation or next to calcite fractures</li> <li>86.8 - 87.2 - schist and skarn, trace pyrrhotite, chlorite, pyrite, high grade scheelite - 0.6%</li> <li>88.9 - rotted zone - calcite abundant</li> <li>91.5 - 92.9 - one large vertical fracture containing massive calcite. Contained consolidated rotted gossan (hematite)</li> <li>92.5 - scheelite est. -.04%</li> <li>95.3 - 98.4 - breccia zone - calcite infilling               <ul style="list-style-type: none"> <li>98.2 and 97.8 - semi consolidated mud</li> </ul> </li> <li>98.9 -105.0 - broken zone with some mud zones, gossan staining</li> <li>102.8-103.0 - high grade scheelite - 0.8% est.</li> <li>Core Angles:               <table style="margin-left: 20px; border: none;"> <tr> <td>@ 84.7 - 36°</td> <td>@ 95.0 - 61°</td> </tr> <tr> <td>@ 87.0 - 51°</td> <td>@ 98.4 - 61°</td> </tr> <tr> <td>@ 89.4 - 51°</td> <td>@100.7 - 65°</td> </tr> <tr> <td>@ 92.7 - 45°</td> <td>@103.4 - 48°</td> </tr> </table> </li> </ul>	@ 84.7 - 36°	@ 95.0 - 61°	@ 87.0 - 51°	@ 98.4 - 61°	@ 89.4 - 51°	@100.7 - 65°	@ 92.7 - 45°	@103.4 - 48°							
@ 84.7 - 36°	@ 95.0 - 61°																
@ 87.0 - 51°	@ 98.4 - 61°																
@ 89.4 - 51°	@100.7 - 65°																
@ 92.7 - 45°	@103.4 - 48°																
105.4	153.7	<p>Schist and skarn</p> <ul style="list-style-type: none"> <li>- minor quartz veins</li> <li>- highly fractured with calcite infilling</li> <li>- core is broken and fractured with poor recovery</li> <li>- trace scheelite and pyrrhotite</li> <li>- chlorite present</li> <li>- gossan staining</li> <li>109.2 - 130.0 - broken, breccia, semi - non consolidated mud               <ul style="list-style-type: none"> <li>poor core recovery (chlorification)</li> </ul> </li> <li>121.3 - 121.5 - high grade scheelite 0.6% est.</li> <li>130.0 - 153.7 - broken rock, highly fractured with abundant calcite</li> <li>136.8 - 137.5 - broken limestone</li> <li>Core Angles:               <table style="margin-left: 20px; border: none;"> <tr> <td>@ 105.8 - 61°</td> <td>@ 123.7 - 62°</td> <td>@ 139.3 - 55°</td> </tr> <tr> <td>@ 108.8 - 51°</td> <td>@ 127.7 - 83°</td> <td>@ 145.5 - 74°</td> </tr> <tr> <td>@ 110.8 - 61°</td> <td>@ 130.0 - 46°</td> <td>@ 150.4 - 84°</td> </tr> <tr> <td>@ 113.2 - 55°</td> <td>@ 133.2 - 51°</td> <td>@ 152.4 - 86°</td> </tr> <tr> <td>@ 121.5 - 63°</td> <td>@ 136.0 - 60°</td> <td></td> </tr> </table> </li> </ul>	@ 105.8 - 61°	@ 123.7 - 62°	@ 139.3 - 55°	@ 108.8 - 51°	@ 127.7 - 83°	@ 145.5 - 74°	@ 110.8 - 61°	@ 130.0 - 46°	@ 150.4 - 84°	@ 113.2 - 55°	@ 133.2 - 51°	@ 152.4 - 86°	@ 121.5 - 63°	@ 136.0 - 60°	
@ 105.8 - 61°	@ 123.7 - 62°	@ 139.3 - 55°															
@ 108.8 - 51°	@ 127.7 - 83°	@ 145.5 - 74°															
@ 110.8 - 61°	@ 130.0 - 46°	@ 150.4 - 84°															
@ 113.2 - 55°	@ 133.2 - 51°	@ 152.4 - 86°															
@ 121.5 - 63°	@ 136.0 - 60°																

DEPTH		DESCRIPTION OF CORE	Page 3 of 4
From	To		
153.7	157.2	Marble with light and dark bands - minor schist and skarn - broken, poor recovery Core Angles: @ 154.4 - 58° @ 157.0 - 86°	
157.2	170.6	Biotite, schist and skarn - minor quartz stringers - abundant vertical fractures with calcite 157.2 - 160.0 - broken zone 160.0 - 160.8 - breccia zone consolidated, calcite infilling 163.8 - 164.2 - calcite infilling 170.6 + trace scheelite Core Angles: @ 162.0 - 30° @ 166.7 - 36° @ 164.3 - 36° @ 169.2 - 33°	
170.6	178.0	Marble - light and dark layers - some distorted bedding - minor schist and skarn - conformable quartz stringers - vertical calcite fractures - slightly broken Core Angles: @ 172.8 - 33° @ 175.2 - 31° @ 177.5 - 43°	
178.0	198.0	Biotite Schist and skarn - minor quartz stringers - abundant calcite fracturing - trace scheelite and pyrrhotite 185 - 186.2 - limestone bands, intercalated with biotite schist 189.3-189.6 - limestone bands, intercalated with biotite schist Core Angles: @ 180.2 - 56° @ 191.1 - 46° @ 182.3 - 53° @ 193.0 - 37° @ 185.0 - 38° @ 196.3 - 41° @ 188.7 - 44°	
198.0	210.6	Grey beds - abundant vertical calcite fractures - trace pyrrhotite and scheelite 198.5 - 200.3 - limestone with intercalated grey beds 200.6 - 200.8 - breccia, semiconsolidated mud with trace pyrrhotite and pyrite 202.7 - 204.1 - breccia, semiconsolidated mud with trace pyrrhotite and pyrite 204.5 - 205.3 - distorted bedding with some brecciation 206.7 - 206.8 - scheelite .6% 205.6 - 208.4 - intercalated limestone and grey beds minor biotite schist trace scheelite Scheelite est. 209.89 - 209.9 - 0.2% 209.90 - 210.33 - 0.2% 210.33 - 210.91 - 0.0% Core Angles; @ 199.5 - 41° @ 205.6 - 43° @ 202.1 - 37° @ 207.8 - 38°	

## DEPTH

## DESCRIPTION OF CORE

Page 4 of 4

From	To	
210.6	214.1	<p>Garnet diopside skarn</p> <ul style="list-style-type: none"> <li>- massive pyrrhotite</li> <li>- scheelite</li> <li>- trace chalcopyrite</li> <li>- calcite fractures</li> <li>- minor quartz</li> </ul> <p>Scheelite est. 210.91 - 211.42 - 0.8%</p> <p style="padding-left: 100px;">211.42 - 211.84 - 0.0%</p> <p style="padding-left: 100px;">211.84 - 212.43 - 0.1%</p> <p style="padding-left: 100px;">212.43 - 213.56 - 1.0%</p> <p style="padding-left: 100px;">213.5 - 214.10 - 1.0%</p> <p>Core Angles:</p> <p>@ 210.8 - 59°                      @ 212.8 - 28°</p>
214.1	216.1	<p>Limestone with some skarn, biotite schist, garnet</p> <ul style="list-style-type: none"> <li>- pieces of grey beds</li> <li>- vertical calcite fractures</li> <li>- trace pyrrhotite and scheelite</li> </ul>
216.1	226.2	<p>Calcareous grey beds with some skarn (garnet)</p> <ul style="list-style-type: none"> <li>- scheelite, pyrrhotite</li> <li>- conformable quartz stringers</li> <li>- vertical calcite fractures</li> <li>- chlorite pyrite</li> </ul> <p>224.3 - 224.6 - garnet diopside skarn</p> <p style="padding-left: 40px;">- scheelite, pyrrhotite</p> <p>Core Angles:</p> <p>@ 218.5 - 16°                      @ 221.6 - 41°                      @ 225.0 - 81°</p>
226.2	234.3	<p>Garnet diopside skarn</p> <ul style="list-style-type: none"> <li>- pyrrhotite and scheelite</li> <li>- conformable quartz stringers (minor)</li> <li>- vertical calcite fractures</li> <li>- chlorite and pyrite along fractures</li> <li>- skarn seems calcareous, probably due to high calcite content in tension fractures on microscopic scale</li> </ul> <p>Core Angles;</p> <p>@ 227.5 - 33°                      @ 230.7 - 51°                      @ 233.3 - 37°</p>
234.3	238.1	<p>Biotite schist and garnet diopside skarn</p> <ul style="list-style-type: none"> <li>- vertical calcite fractures</li> <li>- pyrrhotite and scheelite</li> </ul> <p>236.8 - small rotted zone</p> <p>Core Angles: @ 235.6 - 41°                      @ 237.4 - 43°</p>
238.1	244.0	<p>Quartz monzonite intrusive</p> <p>very gradtional contact therefore a lot of assimilation</p> <p>trace scheelite found along quartz vein</p>
	244.0	<p>End of Hole</p> <p>Scheelite estimates - 214.1 - 214.43 - 0.0%</p> <p style="padding-left: 100px;">215.8 - 217.30 - 0.0%</p> <p style="padding-left: 100px;">217.3 - 217.83 - 0.6%</p> <p style="padding-left: 100px;">217.83-218.41 - 0.2%</p> <p style="padding-left: 100px;">218.41 -219.59 - 0.0%</p> <p style="padding-left: 100px;">227.8 - 229.0 - 0.05%</p>

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 27

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

Mining Division Whitehorse

Hole No. 44

Angle: 57°

Direction: 273°

Depth: 255.4 m

Grid No.

Co-Ordinates: 6 + 62N  
13 + 06W

Date Started: 2 August 1981

Finished: 7 August 1981

Logged By: M. Nicol

Drilled By: Caron Diamond Drilling

D. Lincoln

DEPTH		DESCRIPTION OF CORE	Page 1 of 4
From	To		
0.0	12.8	Casing	
12.8	79.7	Biotite Schist - mainly fragmented, broken with gossan staining along fractures. Some rotted zones - conformable quartz veins, minor skarn - vertical fractures with calcite infilling - some minor areas with trace scheelite and chlorite infilling of fractures. Trace pyrrhotite in quartz veins. 38.0 - 39.1 - rotted, gossan stained broken zone 40.0 - 40.8 - rotted, gossan stained broken zone 49.5 - 49.7 - rotted, gossan stained broken zone 57.4 - 57.6 - minor rotted, gossan stained with some mud, semi consolidated 58.4 - 58.45 - minor rotted, gossan stained with some mud, semi consolidated 63.55 - 63.65 - minor rotted, gossan stained with some mud, semi consolidated Biotite schist beginning to be less broken shows some small whitish specks - mineral at 68.70 74.9 - 75.2 - scheelite est. 0.4% pyrrhotite 76.5 - 76.75 - scheelite est. 0.2% pyrrhotite Core Angles: @ 19.4 - 33° @ 41.0 - 30° @ 63.0 - 27° @ 12.8 - 32° @ 44.0 - 30° @ 66.0 - 32° @ 16.5 - 32° @ 46.6 - 32° @ 69.0 - 31° @ 26.0 - 30° @ 49.8 - 23° @ 71.8 - 37° @ 31.8 - 30° @ 53.0 - 30° @ 74.5 - 18° @ 35.8 - 30° @ 56.0 - 32° @ 77.9 - 38° @ 38.0 - 34° @ 60.0 - 26°	
79.7	122.0	Schist and skarn - conformable quartz veins, trace scheelite pyrrhotite, minor calcite fracture infilling, some minor conformable chlorite, actinolite - scheelite estimate - 81.64 - 81.84 - 0.4% - 90.05 - scheelite - 0.8% 100.4 - 100.6 - rotted zone, semi consolidated mud with calcite infilling	

## DEPTH

## DESCRIPTION OF CORE

Page 2 of 4

From	To	DESCRIPTION OF CORE
		<p>111.3 - 113.0 - rotted rock, with semi and unconsolidated mud, abundant calcite infilling, brecciation, - slicken slides in core</p> <p>114.15 - 114.7- scheelite est. 0.4%</p> <p>116.5 - 117.3- scheelite est. 0.4%, diopside skarn core</p> <p>Core Angles:</p> <p>@ 79.8 - 34° @ 102.3 - 38°</p> <p>@ 83.0 - 35° @ 105.5 - 37°</p> <p>@ 85.0 - 30° @ 108.8 - 47°</p> <p>@ 88.9 - 30° @ 114.9 - 37°</p> <p>@ 93.0 - 30° @ 117.1 - 40°</p> <p>@ 96.0 - 34° @ 121.0 - 34°</p> <p>@ 99.0 - 26°</p>
122.0	128.8	<p>Biotite Schist - with trace scheelite, pyrrhotite, skarn laminae, conformable quartz veins, with minor chlorite actinolite</p> <p>Core Angles:</p> <p>@ 124.0 - 29°</p> <p>@ 127.0 - 24°</p>
128.8	205.9	<p>Schist and skarn - Biotite schist and diopside skarn intercalated with trace scheelite, pyrrhotite, chlorite-actinolite with conformable quartz veins prominent, some vertical fractures with calcite infilling.</p> <p>136.4 - 136.9 - Limestone mainly light with some dark bands</p> <p>Scheelite Estimates:</p> <p>133.2 - 133.96 - 0.4%                      137.3 - 137.55 - 0.4%</p> <p>136.1 - 136.63 - 0.4%                      138.7 - 139.0 - 0.05%</p> <p>136.63- 137.3 - 0.05%</p> <p>- scheelite estimates in garnet diopside skarn</p> <p>139.3 - 139.85 - limestone with minor schist. Limestone composed of light and dark laminae</p> <p>142.0 - 142.9 - semi consolidated mud, rotted zone with abundant calcite, minor chlorite</p> <p>143.5 - 143.9 - Broken, fragmented zone with some mud</p> <p>146.5 - 148.7 - broken zone, fragmented</p> <p>Scheelite estimate - 140.76-141.1 - 0.4%</p> <p>151.35 - 151.4 - rotted zone, with semiconsolidated mud and abundant calcite</p> <p>159.3 - 159.4 - rotted zone, mud, with calcite abundant</p> <p>165.5 - 166.4 - rotted, brecciated zone with abundant calcite, chlorite, semiconsolidated mud</p> <p>170.4 - 170.55- breccia zone with calcite infilling</p> <p>172.0 - 172.35- scheelite estimate of 0.2%</p> <p>Scheelite Estimates:</p> <p>172.4 - 173.45 - 0.1%                      180.56 - 182.0 - 0.0%</p> <p>178.6 - 179.47 - 0.2%                      182.0 - 182.3 - 0.8%</p> <p>179.47 -180.56 - 0.6%                      182.3 - 182.55- 0.1%</p> <p>189.6 - 199.6 - Limestone with light and grey laminae, trace scheelite, garnets, diopside. calcite infilling of vertical fractures</p> <p>196.5 - 196.7 - rotted zone, with semiconsolidated mud, mud is calcareous</p> <p>202.3 - 202.7 - broken rotted zone with abundant chlorite mud</p> <p>204.3 - 204.5 - rotted zone, with chlorite mud</p>

DEPTH

DESCRIPTION OF CORE

From	To
205.9	210.1
210.1	217.0
217.0	228.3
228.3	243.45
243.45	255.4

Scheelite Estimates:  
 197.5 - 198.0 - .05%  
 198.0 - 198.4 - .8%  
 198.4 - 198.57- 0%  
 201.6 - 202.7 - .05%

202.7 - 204.25 - .05%  
 204.25- 204.95 - 0%  
 204.95 -205.55 - .8%  
 205.55- 206.25 - 0%

Core Angles:  
 @ 130.1 - 33° @ 166.5 - 31° @ 200.7 - 15°  
 @ 133.0 - 38° @ 169.0 - 30° @ 202.7 - 28°  
 @ 136.2 - 28° @ 172.0 - 28° @ 205.5 - 20°  
 @ 138.7 - 40° @ 174.3 - 18°  
 @ 140.7 - 43° @ 178.0 - 13°  
 @ 144.6 - 38° @ 181.0 - 28°  
 @ 148.2 - 38° @ 183.7 - 18°  
 @ 150.5 - 33° @ 185.0 - 24°  
 @ 153.0 - 33° @ 188.0 - 25°  
 @ 156.2 - 30° @ 190.0 - 28°  
 @ 159.4 - 20° @ 194.2 - 24°  
 @ 162.5 - 26° @ 198.0 - 60°

Grey Beds intercalated with garnet diopside skarn  
 - trace pyrrhotite, trace scheelite, conformable quartz veins,  
 minor schist  
 - vertical fractures with calcite infilling  
 207.6 - 207.9 - broken zone, fragmented  
 Core Angle:@ 208.0 - 25°

Garnet Diopside skarn with trace pyrrhotite, scheelite,  
 conformable quartz veins  
 - chlorite calcite infilling of fractures  
 - some chlorite, actinolite associated with quartz veins  
 - trace pyrite in skarn, trace chalcopyrite  
 Core Angles: @ 211.0 - 36° @ 215.0 - 34°

Schist and skarn. Skarn is garnet Diopside skarn, trace pyrrhotite,  
 pyrite, scheelite, conformable quartz veins, vertical fractures  
 with calcite infilling  
 - some areas of massive pyrrhotite  
 219.8 - 223.2 - garnet diopside skarn with mass scheelite,  
 pyrrhotite, minor schist  
 224.85 - 225.0- broken fragmented shear zone  
 Core Angles:  
 @ 218.0 - 32° @ 223.5 - 44°  
 @ 221.2 - 45° @ 227.7 - 23°

Garnet Diopside Skarn  
 - with trace pyrrhotite, scheelite, some massive pyrrhotite  
 - trace pyrite, chlorite along fractures  
 - conformable quartz veins and vertical fractures with calcite infilling  
 236.2 - 236.7 - massive pyrrhotite in skarn, pyrrhotite appears  
 slightly magnetic, streaks of massive pyrite with  
 calcite associated, also chlorite associated with pyrite  
 240.1 - 242.4 - schist and diopside skarn  
 chalcopyrite in quartz veins

Quartz monzonite intrusive  
 shows some xenoliths of sediments near contact  
 Scheelite Estimates:  
 206.25 - 206.40 - 1.0% 207.8 - 208.52 - 0.2% 209.05 - 210.2 -0.4%  
 206.4 - 207.80 - 0% 208.52- 209.52 - 1.0% 210.2 - 210.65-0.8%



## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 28

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

Mining Division Whitehorse

Hole No. 45

Angle: -65°

Direction: 225°

Depth: 328.3

Grid No.

Co-Ordinates: 8 + 57N

14 + 06W

Date Started: Aug. 8, 1981

Finished: Aug. 12, 1981

Logged By: M. Nicol

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 5
From	To		
0.0	10.2	Casing	
10.2	90.3	Intercalated biotite schist and diopside skarn with minor bands of limestone and some minor grey beds. - with conformable quartz veins, vertical fractures with calcite infilling, gossan staining of fractured core - chlorite, actinolite present in minor amounts - minor limestone bands have light and dark laminae usually occur in approx. .3 - .5 m widths in the schist and skarn core 52.4 - 73.5 - broken, gossan stained zone, core shows many vertical fractures with calcite infilling and gossan staining - around calcite infilling of fractures, actinolite and chlorite occur in the leached schist and skarn 61.1 - 65.2 - skarn zone, with minor biotite schist and grey beds with actinolite and calcite infilling of fractures, gossan stained 87.2 - 90.3 - skarn zone with abundant grey beds, quartz veins, and fracturing from 89.7 - 90.3  Core Angles: @ 10.8 - 38° @ 35.8 - 21° @ 54.1 - 23° @ 13.9 - 29° @ 37.6 - 25° @ 60.0 - 24° @ 17.1 - 27° @ 39.2 - 24° @ 62.5 - 18° @ 20.3 - 28° @ 42.1 - 29° @ 66.4 - 21° @ 23.5 - 22° @ 45.2 - 26° @ 69.5 - 22° @ 26.1 - 28° @ 48.3 - 27° @ 73.4 - 26° @ 29.0 - 31° @ 51.6 - 28° @ 76.5 - 22° @ 31.0 - 22° @ 56.7 - 20° @ 79.4 - 25°	
90.3	96.7	Rotted semi consolidated, consolidated chlorite mud zone with abundant calcite - some quartz veining apparent, along with calcite infilling of fractures	
96.7	99.1	Limestone with minor grey beds, limestone is laminated with light and dark beds, has vertical fractures with calcite infilling conformable quartz veins 96.7 - 97.2 - grey beds Core Angle: @ 97.8 - 31°	

DEPTH		DESCRIPTION OF CORE	Page 2 of 5																	
From	To																			
99.1	136.8	<p>Biotite schist - with minor skarn, grey beds, conformable quartz veins, calcite infilling of vertical fractures.</p> <ul style="list-style-type: none"> <li>- schist shows specks of possible white feldspar</li> <li>- minor pyrrhotite, pyrite in some quartz veins</li> <li>- chlorite, actinolite in some fractures and near quartz veins</li> </ul> <p>100.4 - 101.1 - grey beds zone  105.1 - 105.7 - limestone bed  127.65- 127.9 - limestone bed  133.2 - 136.8 - fractured broken zone</p> <p>Core Angles:</p> <table> <tr><td>@ 99.6 - 26°</td><td>@ 121.9 - 25°</td></tr> <tr><td>@ 101.9 - 31°</td><td>@ 124.0 - 23°</td></tr> <tr><td>@ 104.9 - 26°</td><td>@ 127.1 - 22°</td></tr> <tr><td>@ 108.6 - 26°</td><td>@ 130.9 - 23°</td></tr> <tr><td>@ 112.0 - 22°</td><td>@ 133.1 - 22°</td></tr> <tr><td>@ 116.0 - 27°</td><td></td></tr> <tr><td>@ 119.5 - 28°</td><td></td></tr> </table>	@ 99.6 - 26°	@ 121.9 - 25°	@ 101.9 - 31°	@ 124.0 - 23°	@ 104.9 - 26°	@ 127.1 - 22°	@ 108.6 - 26°	@ 130.9 - 23°	@ 112.0 - 22°	@ 133.1 - 22°	@ 116.0 - 27°		@ 119.5 - 28°					
@ 99.6 - 26°	@ 121.9 - 25°																			
@ 101.9 - 31°	@ 124.0 - 23°																			
@ 104.9 - 26°	@ 127.1 - 22°																			
@ 108.6 - 26°	@ 130.9 - 23°																			
@ 112.0 - 22°	@ 133.1 - 22°																			
@ 116.0 - 27°																				
@ 119.5 - 28°																				
136.8	150.6	<p>Quartz Feldspar Biotite porphyry dike with dark purplish matrix</p> <ul style="list-style-type: none"> <li>- porphyritic texture</li> <li>- homogeneous structure</li> <li>- phenocrysts less than 1 mm diameter</li> <li>- minor pyrite, pyrrhotite mineralization along fractures near top and bottom of dike contacts</li> <li>- fractures also contain minor calcite infilling and show gossan staining with chlorite alterations.</li> </ul>																		
150.6	197.2	<p>Biotite schist - shows speckled texture with white feldspar</p> <ul style="list-style-type: none"> <li>- with conformable quartz veins, fractures (vertical) with calcite infilling and some chlorite, actinolite infilling</li> <li>- chlorite, actinolite infilling, chlorite actinolite around leached schist conformable laminae</li> <li>- also minor skarn, trace pyrite, pyrrhotite in or near quartz veins</li> </ul> <p>151.2 - 152.0 - broken fragmented zone with gossan staining  190.0 - 190.6 - broken fragmented zone  191.8 - 192.3 - broken fragmented zone  196.1 - 197.2 - broken fragmented zone, trace scheelite at  197.1 - 197.2 - brecciated zone</p> <p>Core Angles:</p> <table> <tr><td>@ 150.6 - 31°</td><td>@ 178.0 - 30°</td></tr> <tr><td>@ 154.0 - 37°</td><td>@ 179.9 - 28°</td></tr> <tr><td>@ 157.5 - 27°</td><td>@ 182.0 - 32°</td></tr> <tr><td>@ 159.4 - 24°</td><td>@ 185.2 - 26°</td></tr> <tr><td>@ 162.1 - 24°</td><td>@ 188.2 - 31°</td></tr> <tr><td>@ 165.2 - 25°</td><td>@ 190.7 - 31°</td></tr> <tr><td>@ 167.8 - 26°</td><td>@ 193.3 - 33°</td></tr> <tr><td>@ 172.0 - 30°</td><td>@ 195.3 - 27°</td></tr> <tr><td>@ 174.7 - 27°</td><td>@ 197.1 - 24°</td></tr> </table>	@ 150.6 - 31°	@ 178.0 - 30°	@ 154.0 - 37°	@ 179.9 - 28°	@ 157.5 - 27°	@ 182.0 - 32°	@ 159.4 - 24°	@ 185.2 - 26°	@ 162.1 - 24°	@ 188.2 - 31°	@ 165.2 - 25°	@ 190.7 - 31°	@ 167.8 - 26°	@ 193.3 - 33°	@ 172.0 - 30°	@ 195.3 - 27°	@ 174.7 - 27°	@ 197.1 - 24°
@ 150.6 - 31°	@ 178.0 - 30°																			
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@ 172.0 - 30°	@ 195.3 - 27°																			
@ 174.7 - 27°	@ 197.1 - 24°																			
197.2	199.1	<p>Skarn and grey beds with trace pyrite, pyrrhotite, chlorite, actinolite, calcite infilling of vertical fractures, conformable quartz veins, calcite, actinolite in conformable veins</p> <p>197.2 - 197.4 - broken rotted zone, with some semiconsolidated chlorite and with calcite  198.5 - 199.1 - broken rotted zone brecciated from 198.5-198.6</p> <p>Core Angle: @ 198.1 - 32°</p>																		

DEPTH		DESCRIPTION OF CORE	Page 3 of 5																													
From	To																															
199.1	285.8	<p>Intercalated biotite schist and diopside skarn</p> <ul style="list-style-type: none"> <li>- with conformable quartz veins, vertical fractures infilled with chlorite, actinolite and calcite</li> <li>- trace pyrite, pyrrhotite associated with the conformable quartz veins</li> <li>- trace scheelite in schist skarn</li> <li>- actinolite in conformable thin laminae, infilling, leached schist and skarn, increasing actinolite with hole depth</li> <li>- skarn rich zone - 218.2-219.6</li> <li>- scheelite est. 218.3-218.9 - 0.2%</li> <li>- scheelite est. 222.7-223.45- 0.1%</li> </ul> <p>229.4 - 229.8 - broken, fragmented zone, with some chlorite mud, calcite present</p> <p>230.75- 230.9 - muddy zone, with chlorite, actinolite mud. - with abundant calcite, semiconsolidated mud.</p> <p>234.8 - 235.8 - skarn rich zone</p> <p>239.6 - 239.8 - rotted muddy zone</p> <p>Scheelite Estimates - 240.75-241.25 - 0.4% 243.1 -243.85 - 0.05% 247.2 -247.5 - 0.1%</p> <p>247.9 - 249.0 - broken zone, with abundant calcite infilled vertical fractures, with some calcite mud</p> <p>261.0 - 261.35- broken fragmented rotting zone with abundant calcite in semiconsolidated mud</p> <p>265.6 - 266.8 - Biotite schist zone - schist to skarn ratio changes with schist approx. 80-85% in this zone</p> <p>Scheelite Estimates - 266.8 -267.15 - 0.1% 267.15-267.9 - 0.75% 267.9 -268.9 - 0.1% 268.9 -270.2 - 0.6% 270.2 -270.4 - 0%</p> <p>273.7 - 281.7 - broken, fragmented rotting zone, with abundant calcite chlorite muds</p> <ul style="list-style-type: none"> <li>- some brecciated core, semiunconsolidated muds</li> </ul> <p>Scheelite Estimates - 277.1 -278.3 - 0.2% 278.3 -278.8 - 0.2% 278.7 -279.8 - 0% 281.9 -284.4 - .1% 285.6 -285.8 - 0%</p> <p>Core Angles:</p> <table style="width: 100%; border: none;"> <tr> <td>@ 200.3 - 23°</td> <td>@ 244.2 - 27°</td> </tr> <tr> <td>@ 203.1 - 22°</td> <td>@ 247.0 - 29°</td> </tr> <tr> <td>@ 206.5 - 26°</td> <td>@ 249.9 - 20°</td> </tr> <tr> <td>@ 208.8 - 22°</td> <td>@ 252.1 - 29°</td> </tr> <tr> <td>@ 211.2 - 22°</td> <td>@ 255.1 - 23°</td> </tr> <tr> <td>@ 214.2 - 21°</td> <td>@ 258.2 - 24°</td> </tr> <tr> <td>@ 216.9 - 24°</td> <td>@ 259.9 - 22°</td> </tr> <tr> <td>@ 219.8 - 22°</td> <td>@ 264.2 - 26°</td> </tr> <tr> <td>@ 221.8 - 32°</td> <td>@ 266.8 - 22°</td> </tr> <tr> <td>@ 224.6 - 28°</td> <td>@ 270.4 - 21°</td> </tr> <tr> <td>@ 227.8 - 23°</td> <td>@ 273.7 - 24°</td> </tr> <tr> <td>@ 232.2 - 22°</td> <td>@ 276.8 - 24°</td> </tr> <tr> <td>@ 235.1 - 28°</td> <td>@ 279.9 - 16°</td> </tr> <tr> <td>@ 238.3 - 24°</td> <td>@ 282.2 - 17°</td> </tr> <tr> <td>@ 241.4 - 26°</td> <td>@ 284.7 - 13°</td> </tr> </table>	@ 200.3 - 23°	@ 244.2 - 27°	@ 203.1 - 22°	@ 247.0 - 29°	@ 206.5 - 26°	@ 249.9 - 20°	@ 208.8 - 22°	@ 252.1 - 29°	@ 211.2 - 22°	@ 255.1 - 23°	@ 214.2 - 21°	@ 258.2 - 24°	@ 216.9 - 24°	@ 259.9 - 22°	@ 219.8 - 22°	@ 264.2 - 26°	@ 221.8 - 32°	@ 266.8 - 22°	@ 224.6 - 28°	@ 270.4 - 21°	@ 227.8 - 23°	@ 273.7 - 24°	@ 232.2 - 22°	@ 276.8 - 24°	@ 235.1 - 28°	@ 279.9 - 16°	@ 238.3 - 24°	@ 282.2 - 17°	@ 241.4 - 26°	@ 284.7 - 13°
@ 200.3 - 23°	@ 244.2 - 27°																															
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DEPTH		DESCRIPTION OF CORE	Page 4 of 5
From	To		
285.8	291.3	<p>Diopside skarn with vertical fractures infilled with calcite trace pyrite along vertical fractures.</p> <ul style="list-style-type: none"> <li>- minor biotite schist, grey beds</li> <li>- trace scheelite, pyrrhotite, chlorite, actinolite</li> <li>- conformable quartz veins</li> </ul> <p>Scheelite Estimates - 285.8 - 287.6 - 0.6%  287.6 - 288.0 - 0%  288.0 - 288.9 - 0.4%  288.9 - 289.6 - 0.1%  289.6 - 290.0 - 2%</p> <ul style="list-style-type: none"> <li>- rotted zone with calcite rich mud 288.0 - 288.3</li> <li>- broken, fragmented zone from 289.9 - 290.5</li> </ul> <p>Scheelite Estimates - 290.0 - 290.5 - 0.4%  290.5 - 290.9 - 0.05%  290.9 - 291.35- 1.5%</p> <p>Core Angles:  @ 288.1 - 16°</p>	
291.3	294.1	<p>Grey beds with diopside skarn, trace scheelite, vertical fractures with calcite infilling.</p> <ul style="list-style-type: none"> <li>- minor pyrrhotite, pyrite associated with fractures and quartz veins</li> <li>- chlorite, actinolite near fractures</li> <li>- laminations of dark grey and skarn layers</li> </ul> <p>Scheelite Estimates - 291.35- 291.95 - 0%  291.95- 292.4 - 0.4%  292.4 - 293.25 - 0%  293.25- 294.9 - 0%</p> <p>Core Angles  @ 291.85 - 15°  @ 293.9 - 18°</p>	
294.1	302.2	<p>Intercalated diopside skarn with biotite schist / schist minor</p> <ul style="list-style-type: none"> <li>- trace pyrite, pyrrhotite, scheelite, associated mainly with quartz veins</li> <li>- conformable quartz veins</li> <li>- vertical fractures with associated calcite, actinolite, chlorite</li> <li>- distorted bedding, with abundant vertical fractures in small areas</li> </ul> <p>Scheelite Estimates - 294.9 - 295.9 - 0.05%  295.9 - 296.6 - 0.2%  296.6 - 297.3 - 0.4%  297.3 - 297.6 - 0.8%  297.6 - 298.55- 0.05%  298.55- 299.6 - 0.8%  299.6 - 300.05- 0.05%  300.05- 300.3 - 0.6%  300.3 - 301.8 - 0.6%</p> <p>Core Angles:  @ 296.6 - 31°  @ 299.6 - 14°  @ 301.9 - 31°</p>	
302.2	308.4	<p>Skarn Diopside skarn, with trace scheelite</p> <ul style="list-style-type: none"> <li>- minor pyrite, associated with vertical fractures and conformable stringers</li> <li>- vertical fracture with calcite, chlorite actinolite</li> <li>- pyrrhotite in massive form in skarn</li> </ul>	

DEPTH		DESCRIPTION OF CORE	Page 5 of 5
From	To		
		Scheelite Estimates - 301.8 - 302.25 - 0% 302.25 - 303.3 - 0.6% 303.3 - 304.5 - 0.2% 304.5 - 305.35 - 0% 305.35 - 306.85 - 0.8% 306.85 - 307.2 - 0.2% 307.2 - 308.4 - 0.1% Core Angles: @ 305.0 - 21°                    @ 307.7 - 24°	
308.4	313.0	Biotite Schist with minor skarn - vertical fractures with calcite infilling - actinolite infilling around leached schist, skarn near quartz veins Core Angles: @ 311.1 - 14°                    @ 313.0 - 12°	
313.0	320.2	Diopside Garnet skarn - with massive pyrrhotite throughout - conformable quartz veins, and vertical fractures infilled with calcite, actinolite, chlorite - minor pyrite, chalcopyrite, scheelite, biotite schist Scheelite Estimates - 312.95 - 313.1 - 0% 313.1 - 313.85 - 0.8% 313.85 - 314.3 - 0.1% 314.3 - 315.05 - 0.6% 315.05 - 315.6 - 0.05% 315.6 - 316.3 - 0.1% 316.3 - 316.85 - 0.8% 316.85 - 318.1 - 0.1% 318.1 - 318.35 - 1.0% 318.35 - 318.85 - 0.2% 318.85 - 319.4 - 0.8% 319.4 - 319.95 - 0.4% 319.95 - 320.1 - 0% Core Angles: @ 316.4 - 33°                    @ 319.0 - 21°                    @ 320.2 - 36°	
320.2	328.3	Quartz monzonite intrusive 320.3 - 320.6 - inclusions of surrounding biotite schist and diopside skarn 328.3 - end of hole	

## HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: CAB 28

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

Mining Division Whitehorse

Hole Nº. 46

Angle: 67°

Direction: 217°

Depth: 236.8 m

Grid Nº.

Co-Ordinates: 8 + 22N  
11 + 13W

Date Started: 13 Aug. 1981

Finished: 19 August 1981

Logged By: M. Nicol

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	3.0	Casing
3.0	3.4	Light Matrix quartz, biotite, feldspar porphyry dike - phenocrysts 1 mm diameter - homogeneous structure
3.4	22.8	Intercalated biotite schist and diopside skarn with minor calcareous beds, vertical fractures with calcite infilling, conformable quartz veins, minor chlorite, actinolite 3.4 - 6.9 - broken fragmented zone 13.3 - 13.65- broken fragmented zone with calcite abundantly infilling vertical fractures  Core Angles: @ 3.6 - 24° @ 13.3 - 16° @ 6.8 - 21° @ 16.7 - 11° @ 10.1 - 23° @ 19.5 - 12°
22.8	30.9	Grey beds with unconsolidated and consolidated calcite and chlorite muds, some small quartz veins (with some fragmented zones) some minor schist and skarn - grey beds, dark shaley beds with slicken sides along broken bedding faces, laminae often calcareous (Approx. 5 mm thick) 22.8 - 23.2 - broken zone 24.2 - 24.9 - broken zone 25.9 - 28.0 - rotted muddy zone 28.0 - 30.4 - consolidated mud, chlorite, calcite mud some preserved bedding  Core Angles: @ 24.9 - 22° @ 29.8 - 22° @ 30.7 - 23°
30.9	55.8	Quartz feldspar, biotite porphyrydike with purple (dark) matrix - texture porphyritic - homogeneous structure - phenocrysts limestone 1 mm diameter - vertical fractures with calcite infilling - near contacts, vertical fractures in bedding with calcite infilling, also broken zones in bedding at dike contact (some areas of dike show larger phenocrysts).

## DEPTH

## DESCRIPTION OF CORE

Page 2 of 4

From	To																												
55.8	127.1	<p>Biotite Schist - with conformable quartz veins, calcite infilling of vertical fractures</p> <ul style="list-style-type: none"> <li>- minor grey beds with trace pyrite near contact 55.8 - 56.5</li> <li>- with minor diopside skarn laminae</li> <li>- minor chlorite, actinolite associated with quartz veining</li> <li>- minor pyrrhotite, pyrite associated with quartz veining</li> <li>- small specks of a possible feldspar scattered throughout the schist, also minor grey beds throughout schist</li> </ul> <p>58.3 - 58.7 - rotted, broken with calcite mud</p> <p>59.9 - 60.5 - minor zone of schist and skarn with a small breccia zone and some calcareous bedding</p> <p>66.8 - 67.8 - broken zone, fragmented some fractures show slicken sides</p> <p>84.4 - broken fragmented bedding zone with minor muddy rotting zones show calcite infilling</p> <ul style="list-style-type: none"> <li>- some slicken sides present along fractures</li> <li>- muddy zone 93.4-93.6, 95.2-95.3, 104.9-105.1</li> <li>- core fragmented and broken 113.1 - 127.1</li> </ul> <p>Core Angles:</p> <table style="width: 100%; border: none;"> <tr> <td>@ 56.6 - 12°</td> <td>@ 81.6 - 22°</td> <td>@ 108.9 - 21°</td> </tr> <tr> <td>@ 59.7 - 8°</td> <td>@ 84.6 - 20°</td> <td>@ 111.6 - 33°</td> </tr> <tr> <td>@ 62.6 - 13°</td> <td>@ 87.7 - 15°</td> <td>@ 114.9 - 20°</td> </tr> <tr> <td>@ 64.9 - 6°</td> <td>@ 91.4 - 12°</td> <td>@ 116.0 - 21°</td> </tr> <tr> <td>@ 67.9 - 23°</td> <td>@ 95.0 - 21°</td> <td>@ 123.5 - 16°</td> </tr> <tr> <td>@ 69.2 - 23°</td> <td>@ 98.3 - 15°</td> <td></td> </tr> <tr> <td>@ 73.2 - 21°</td> <td>@ 100.5 - 12°</td> <td></td> </tr> <tr> <td>@ 76.3 - 24°</td> <td>@ 104.5 - 16°</td> <td></td> </tr> <tr> <td>@ 78.3 - 26°</td> <td>@ 107.4 - 18°</td> <td></td> </tr> </table>	@ 56.6 - 12°	@ 81.6 - 22°	@ 108.9 - 21°	@ 59.7 - 8°	@ 84.6 - 20°	@ 111.6 - 33°	@ 62.6 - 13°	@ 87.7 - 15°	@ 114.9 - 20°	@ 64.9 - 6°	@ 91.4 - 12°	@ 116.0 - 21°	@ 67.9 - 23°	@ 95.0 - 21°	@ 123.5 - 16°	@ 69.2 - 23°	@ 98.3 - 15°		@ 73.2 - 21°	@ 100.5 - 12°		@ 76.3 - 24°	@ 104.5 - 16°		@ 78.3 - 26°	@ 107.4 - 18°	
@ 56.6 - 12°	@ 81.6 - 22°	@ 108.9 - 21°																											
@ 59.7 - 8°	@ 84.6 - 20°	@ 111.6 - 33°																											
@ 62.6 - 13°	@ 87.7 - 15°	@ 114.9 - 20°																											
@ 64.9 - 6°	@ 91.4 - 12°	@ 116.0 - 21°																											
@ 67.9 - 23°	@ 95.0 - 21°	@ 123.5 - 16°																											
@ 69.2 - 23°	@ 98.3 - 15°																												
@ 73.2 - 21°	@ 100.5 - 12°																												
@ 76.3 - 24°	@ 104.5 - 16°																												
@ 78.3 - 26°	@ 107.4 - 18°																												
127.1	132.0	Rotted muddy zone - semiconsolidated chlorite mud with abundant calcite infilling																											
132.0	172.5	<p>Intercalated biotite schist and diopside skarn</p> <ul style="list-style-type: none"> <li>- with conformable quartz veins, calcite infilling of vertical fractures</li> <li>- minor pyrite, pyrrhotite associated with quartz veins also some actinolite and chlorite infilling of fractures around quartz vein</li> <li>- trace scheelite in schist and skarn</li> <li>- actinolite - sometimes conformable beds</li> </ul> <p>157.8 - 158.8 - diopside skarn rich zone with minor schist</p> <p>Core Angles:</p> <table style="width: 100%; border: none;"> <tr> <td>@ 133.5 - 18°</td> <td>@ 152.9 - 26°</td> <td>@ 174.5 - 36°</td> </tr> <tr> <td>@ 136.2 - 26°</td> <td>@ 155.8 - 23°</td> <td></td> </tr> <tr> <td>@ 138.6 - 27°</td> <td>@ 157.6 - 21°</td> <td></td> </tr> <tr> <td>@ 140.4 - 31°</td> <td>@ 163.4 - 27°</td> <td></td> </tr> <tr> <td>@ 144.0 - 27°</td> <td>@ 166.1 - 23°</td> <td></td> </tr> <tr> <td>@ 147.5 - 26°</td> <td>@ 169.2 - 18°</td> <td></td> </tr> <tr> <td>@ 150.4 - 12°</td> <td>@ 172.3 - 32°</td> <td></td> </tr> </table>	@ 133.5 - 18°	@ 152.9 - 26°	@ 174.5 - 36°	@ 136.2 - 26°	@ 155.8 - 23°		@ 138.6 - 27°	@ 157.6 - 21°		@ 140.4 - 31°	@ 163.4 - 27°		@ 144.0 - 27°	@ 166.1 - 23°		@ 147.5 - 26°	@ 169.2 - 18°		@ 150.4 - 12°	@ 172.3 - 32°							
@ 133.5 - 18°	@ 152.9 - 26°	@ 174.5 - 36°																											
@ 136.2 - 26°	@ 155.8 - 23°																												
@ 138.6 - 27°	@ 157.6 - 21°																												
@ 140.4 - 31°	@ 163.4 - 27°																												
@ 144.0 - 27°	@ 166.1 - 23°																												
@ 147.5 - 26°	@ 169.2 - 18°																												
@ 150.4 - 12°	@ 172.3 - 32°																												
172.5	176.7	Diopside skarn - with minor schist, chlorite and calcite infilling of vertical fractures, trace pyrrhotite, pyrite, scheelite																											
176.6	192.0	<p>Intercalated biotite schist and diopside skarn</p> <ul style="list-style-type: none"> <li>- with vertical fractures infilled with calcite, minor chlorite actinolite</li> <li>- conformable quartz veins - trace scheelite, pyrite, pyrrhotite</li> <li>- minor limestone from 176.9 - 177.0</li> <li>- minor grey beds throughout</li> </ul>																											

DEPTH		DESCRIPTION OF CORE	Page 3 of 4
From	To		
		187.8 - 189.8 - Diopside skarn with greybeds - with trace scheelite, pyrite, pyrrhotite - vertical fractures with actinolite infilling	
		189.8 - 192.6 - broken fragmented breccia zone of biotite schist and diopside skarn with grey beds - calcite infilling of fractures is abundant	
		Core Angles: @ 177.1 - 26° @ 188.9 - 37° @ 180.0 - 23° @ 190.5 - 34° @ 183.2 - 22° @ 186.5 - 26°	
192.6	202.6	Diopside skarn with grey beds and minor biotite schist - with conformable quartz veining, vertical fracture, calcite infilling, trace pyrrhotite, pyrite, scheelite - minor chlorite	
		Core Angles: @ 193.2 - 28° @ 196.0 - 5° @ 199.9 - 20°	
202.6	204.0	Biotite schist with minor grey beds - vertical fracturing with calcite infilling, small conformable quartz stringers trace pyrite, pyrrhotite, scheelite, chlorite and some slicken sides present	
		Core Angle: @ 202.8 - 25°	
204.0	204.85	Dike - feldspar quartz muscovite porphyry dike with similar colour to grey beds with vertical fractures infilled with calcite	
204.85	205.35	Grey beds - intercalated green and shaley beds with conformable quartz veins, vertical fractures	
		Core Angle: @ 205.0 - 26°	
205.35	205.85	Dike, feldspar, quartz, muscovite porphyry dike	
205.85	207.3	Grey beds - intercalated greenish, and shaley dark beds with conformable quartz veins and vertical fractures infilled with calcite	
		Core Angle: @ 207.1 - 12°	
207.3	213.9	Biotite Schist with grey beds and minor skarn - with trace scheelite, vertical fractures with calcite infilling and conformable veins - minor chlorite, actinolite	
		Core Angle: @ 210.0 - 3°	
213.9	220.9	Biotite Schist and diopside skarn intercalated with minor grey beds and actinolite beds (thin laminae) - conformable quartz veins, vertical fractures with calcite infilling	
		Core Angles @ 214.2 - 13° @ 216.3 - 20°	
220.9	222.5	Diopside skarn with massive pyrrhotite, minor pyrite	
		Scheelite Estimate: 222.3 - 223.8 - 1.0% 220.81- 221.01- 0.4% 223.8 - 224.08- 1.0% 221.01- 222.3 - 1.0% 224.08- 224.58- 0.05% 224.58- 224.79- 1.0%	
		- with vertical fractures infilled with chlorite, calcite - calcite in conformable beds along with quartz	
222.5	229.8	Biotite schist intercalated with garnet diopside skarn this zone is skarn rich approx. 40% schist, 60% skarn - shows trace pyrite, pyrrhotite, chalcopyrite	

DEPTH		DESCRIPTION OF CORE	Page 4 of 4
From	To		
229.8	236.8	- conformable quartz veins associated with pyrite, chalcopyrite and pyrrhotite	
		Scheelite Estimates: 224.79 - 225.16 - 0.05% 225.16 - 226.59 - 0.05% 226.59 - 227.16 - 0% 227.16 - 227.57 - 0.2% 227.57 - 227.93 - 0% 227.93 - 228.41 - 0.1% 228.41 - 228.72 - 1.0% 228.72 - 229.30 - 0.6% 229.30 - 229.45 - 0.6% 229.45 - 229.65 - 0.05%	
		Core Angles: @ 222.6 - 31° @ 227.1 - 26° @ 225.0 - 13° @ 229.2 - 22°	
		Quartz monzonite intrusive with inclusion of skarn for first 1.2 m	
		Scheelite Estimates: 167.03 - 168.05 - 0.2% 168.05 - 169.28 - 0.05% 169.28 - 170.21 - 0% 170.21 - 170.46 - 0.4% 170.45 - 171.70 - 0% 171.70 - 172.50 - 0.2% 189.60 - 189.70 - 0.2% 193.43 - 193.66 - 0% 193.66 - 194.10 - 0.6% 194.10 - 195.40 - 0.2% 195.40 - 196.07 - 0.2% 196.07 - 196.86 - 0.1% 196.86 - 197.37 - 0.4% 197.37 - 198.65 - 0% 198.65 - 199.60 - 0.4% 199.60 - 201.10 - 0.05% 172.50 - 174.00 - 0.2% 174.00 - 175.40 - 0.1% 175.40 - 176.70 - 0.2% 180.68 - 180.86 - 0.2% 201.20 - 201.81 - 0.05% 201.81 - 202.05 - 0.6% 219.90 - 220.15 - 0% 220.15 - 220.51 - 0.4% 220.51 - 220.81 - 0%	

APPENDIX B

DIAMOND DRILL ASSAYS



Date Began 23 June 81 Date Completed 29 June 81  
 Property CAB Claims Project No. 7398 Depth 200 - m  
 Hole No. 39 Co-ord 6 + 95.2N Horizontal Length \_\_\_\_\_  
 Sheet No. 1 of 2 11 + 30.2W Direction 258°  
 Claim No. CAB # 27 Elevation 1660 m Angle 73°

Depth \_\_\_\_\_ Bearing \_\_\_\_\_ Dip \_\_\_\_\_  
 49.4 \_\_\_\_\_ 75°  
 101.2 \_\_\_\_\_ 260° 73°  
 150.0 \_\_\_\_\_ 245° 73°  
 208.2 \_\_\_\_\_ 72°

Resident Ge

DEPTH	NUMBER	WIDTH	AU	ASSAY						WIDTH X ASSAY			AVERAGES					
				AG	KG	CU	ZN	WO <sub>3</sub>	PB	NI	Cu	WO <sub>3</sub>	WIDTH	AU	AG	CU	ZN	
0.00-14.60	Casing	14.60																
14.60-131.25	Waste	116.65																
131.25-131.40	31006	0.15		0.70	0.13	1.03			0.020	0.155								
131.40-131.75	31007	0.35		0.90	0.05	0.24			0.018	0.084								
131.75-132.25	31008	0.50		1.10	0.01	0.21			0.005	0.105	131.25-132.40	1.15m		0.40% WO <sub>3</sub>				
132.25-132.40	31010	0.15		0.40	0.02	0.76			0.003	0.114	(0.458)							
132.40-132.80	31345	0.40		0.85	0.03	0.081			0.012	0.032								
132.80-134.95	Waste	2.15																
134.95-136.35	31011	1.40		3.70	TR	0.09			0.000	0.126								
136.35-136.75	31012	0.40		1.30	TR	0.18			0.000	0.072								
136.75-149.30	Waste	12.55																
149.30-149.85	31013	0.55		1.30	TR	0.10			0.000	0.055								
149.85-150.38	31014	0.53		1.60	0.02	0.70			0.011	0.371								
150.38-150.73	31015	0.35		0.90	0.07	5.31			0.025	1.859	149.85-151.38	1.53 m		2.39% WO <sub>3</sub>				
150.73-150.87	31016	0.14		0.40	0.05	0.10			0.007	0.014	(3.658)							
150.87-151.10	31017	0.23		0.50	0.57	5.45			0.131	1.254								
151.10-151.38	31018	0.28		0.90	0.09	0.57			0.025	0.160								
151.38-152.21	31346	0.83		2.30	0.02	0.016			0.017	0.013	151.38 -152.86	1.48 m		0.36% WO <sub>3</sub>				
152.21-152.86	31019	0.65		1.80	0.06	0.80			0.039	0.520	(0.533)							
152.86-154.30	31347	1.44		3.20	0.03	0.25			0.043	0.360								
154.30-156.70	Waste	2.40																
156.70-157.45	31348	0.75		1.95	0.02	0.10			0.015	0.075	or 149.85-152.86	3.01 m		1.39% WO <sub>3</sub>				
157.45-158.48	31020	1.03		2.70	0.07	0.52			0.072	0.536	(4.191)	157.45-158.48	1.03 m	0.52% WO <sub>3</sub>				
158.48-159.00	31349	0.52		0.75	0.01	0.078			0.000	0.041								
159.00-181.95	Waste	22.45																
181.95-182.51	31021	0.56		1.50	0.01	0.07			0.006	0.039								
182.51-183.20	31022	0.69		1.70	0.04	0.30			0.028	0.207	182.51-183.90	1.39		0.27% WO <sub>3</sub>				
183.20-183.90	21023	0.70		2.10	0.01	0.24			0.007	0.168	(0.375)							
183.90-185.35	31024	1.45		4.20	TR	0.01			0.000	0.015								
185.35-185.63	31025	0.28		0.70	0.01	0.12			0.003	0.034								
185.63-186.49	31026	0.86		2.40	0.05	0.75			0.043	0.645								
186.49-186.84	31027	0.35		0.90	0.05	1.37			0.018	0.480	185.64-188.81	3.18		0.87% WO <sub>3</sub>				
186.84-187.51	31028	0.67		1.90	0.02	0.41			0.013	0.275	(2.752)							
187.51-188.21	31029	1.21		3.30	0.06	1.04			0.078	0.222								



## DIAMOND DRILL RECORD

Date Began 29 June 1981 Date Completed 5 July 1981

Property CAB Claims Project No. 7398 Depth 247.8 m  
 Hole No. 40 Co-ord 6 + 7N Horizontal Length  
 Sheet No. 1 of 1 Direction 278°  
 Claim No. CAB #27 Elevation 1679 m Angle -78°

Depth Dip  
 51.5m 76.5°  
 100.3m 73.5°  
 149.1m 75.5°  
 247.8m 74.0°

Resident

DEPTH	NUMBER	WIDTH	AU	ASSAY					NI	WO <sub>3</sub>	WIDTH X ASSAY		AVERAGES					
				g/kg	CU	ZN	WO <sub>3</sub>	PB			WIDTH	AU	AG	CU	ZN			
0.00- 10.10	Casing	10.10																
10.10-153.30	Waste	143.20																
153.30-154.10	31035	0.80		1.80		0.26				0.208								
154.10-158.60	Waste	4.50																
158.60-159.40	31036	0.80		1.70		0.18				0.144								
159.40-160.30	31037	0.90		1.35		0.61				0.549	159.40-160.30	0.90m		0.61%	WO <sub>3</sub>			
160.30-182.30	Waste	22.00																
182.30-183.50	31038	1.20		2.90		0.63				0.756	182.30-183.50	1.20m		0.63%	WO <sub>3</sub>			
183.50-194.90	Waste	11.40																
194.90-196.60	31039	1.70		4.20		0.080				0.136								
196.60-197.10	31040	0.50		1.00		0.68				0.340	196.60-197.10	0.50		0.68%	WO <sub>3</sub>			
197.10-211.90	Waste	14.80																
211.90-213.10	31041	1.20		2.40		0.49				0.588	211.90-214.50	2.60		0.46%	WO <sub>3</sub>			
213.10-214.50	31042	1.40		3.10		0.44				0.616	(1.204)							
214.50-247.80	Waste	33.30																

or 3.00 m of 0.40% WO<sub>3</sub>

# DIAMOND DRILL RECORD

Date Began July 6, 1981 Date Completed July 15, 1981  
 Property CAB Claims Project No. 7398 Depth 292.6m  
 Hole No. 41 Co-ord 7 + 43N Horizontal Length \_\_\_\_\_  
13 + 50W  
 Sheet No. 1 of 2 Direction 225°  
 Claim No. #27 Elevation 1700 m Angle -70°

292.6m 63° 224.5  
 250.5m 64° 222.0  
 198.7m 65°  
 150.0m 66° 224.0  
 101.2m 68° 230.0  
 49.4m 70° 238.0

Resident G.

DEPTH	NUMBER	WIDTH	ASSAY								WIDTH X ASSAY	AVERAGES					
			AU	AG	CU	ZN	WO <sub>3</sub>	PB	NI	Cu		WO <sub>3</sub>	WIDTH	AU	AG	CU	ZN
0.00-15.90	Casing	15.90															
15.90-161.50	Waste	145.60															
161.50-162.27	31049	0.77		1.80	<0.01	0.079			0.000	0.061							
162.27-182.60	Waste	20.33															
182.60-184.00	31046	1.40		3.60	<0.01	0.079			0.000	0.111							
184.00-205.00	31047	21.00		2.40	<0.01	0.060											
205.00-208.65	Waste	3.65															
208.65-209.55	31048	0.90		2.20	<0.01	0.073			0.000	0.066							
209.55-226.95	Waste	17.40															
226.95-227.53	31050	0.58		1.40	<0.01	1.20			0.000	0.696							
227.53-228.43	31051	0.90		2.10	0.01	0.44			0.009	0.396	226.95-229.93	2.98		0.58%	WO <sub>3</sub>		
228.43-229.93	31052	1.50		3.30	0.03	0.42			0.005	0.630	(1.722)						
229.93-231.20	31053	1.27		3.05	0.02	0.23											
231.20-232.65	31054	1.45		3.80	<0.01	0.16			0.000	0.232							
232.65-234.10	31055	1.45		3.60	<0.01	0.21			0.000	0.305							
234.10-235.65	31056	1.55		4.10	<0.01	0.21			0.000	0.326							
235.65-237.10	31057	1.45		3.80	0.01	0.25			0.015	0.363							
237.10-246.10	Waste	9.00															
246.10-246.90	31058	0.80		1.50	0.04	0.12			0.032	0.096							
246.90-248.20	31059	1.30		3.40	<0.01	0.015			0.000	0.020							
248.20-249.65	31060	1.45		3.00	<0.01	<0.005			0.000	0.000							
249.65-250.39	31061	0.74		1.70	0.01	0.069			0.007	0.051							
250.39-250.57	31062	0.18		0.60	0.03	1.43			0.005	0.257							
250.57-251.12	31063	0.55		1.20	<0.01	0.029			0.000	0.016	250.39-252.09	1.70m		0.48%	WO <sub>3</sub>		
251.12-251.87	31064	0.75		1.50	<0.01	0.013			0.000	0.010	(0.818)						
251.87-252.09	31065	0.22		1.00	0.03	2.43			0.007	0.535							
252.09-252.59	31066	0.50		1.15	0.01	0.11			0.005	0.055							
252.59-253.49	31067	0.90		2.60	<0.01	0.33			0.000	0.297	252.09-256.77	4.68m		0.27%	WO <sub>3</sub>		
253.49-254.00	Waste	0.51									(1.281)						
254.00-255.37	31068	1.37		3.30	0.01	0.30			0.014	0.411							
255.37-256.77	31069	1.40		3.30	<0.01	0.37			0.000	0.518							
256.77-256.97	31070	0.20		0.40	<0.01	0.67			0.000	0.134	256.77-257.50	0.73m		0.21%	WO <sub>3</sub>		
256.97-257.50	31071	0.53		1.35	0.03	0.031			0.016	0.016	(0.150)						
257.50-258.22	31072	0.72		1.50	0.06	1.72			0.043	1.238							

## DIAMOND DRILL RECORD

Date Began July 6, 1981 Date Completed July 15, 1981

Property CAB Claims Project No. 7398 Depth 292.6  
 Hole No. 41 Co-ord 7 + 43N Horizontal Length  
 Sheet No. 2 of 2 13 ± 50W Direction 225°  
 Claim No. 27 Elevation 1700m Angle -70°

Resident

DEPTH	NUMBER	WIDTH	AU	ASSAY				WIDTH X ASSAY		AVERAGES					
				KG	CU	WO <sub>3</sub>	PB	Ni	WIDTH	AU	AG	CU	ZN		
259.30-259.88	31074	0.58		1.55	0.04	0.36									
259.88-260.78	31075	0.90		2.65	0.03	1.99		0.023	0.209	257.50-264.41 (7.254)	6.91m	1.05%	WO <sub>3</sub>		
260.78-261.23	31076	0.45		1.30	0.03	2.25		0.014	1.013						
261.23-261.92	31077	0.69		2.00	0.04	0.86		0.028	0.593						
261.92-263.41	31078	1.49		4.20	0.04	0.97		0.060	1.445						
263.41-264.41	31079	1.00		2.60	0.05	0.49		0.050	0.490						
264.41-265.21	31080	0.80		1.70	0.02	0.28		0.016	0.224						
265.21-266.31	31081	1.10		3.35	<0.01	0.11		0.000	0.121						
266.31-267.81	31082	1.50		3.10	0.01	0.036		0.015	0.054						
267.81-269.21	31083	1.40		3.35	<0.01	<0.005		0.000	0.000						
269.21-270.70	31084	1.49		3.40	<0.01	<0.005		0.000	0.000						
270.70-272.20	31085	1.50		3.50	<0.01	<0.005		0.000	0.000						
272.20-272.38	31086	0.18		0.40	<0.01	0.036		0.000	0.010						
272.38-273.85	31087	1.47		4.00	0.03	1.42		0.044	2.087	272.38-273.85	1.47m	1.42%	WO <sub>3</sub>		
273.85-275.07	31088	1.22		2.50	0.06	0.12		0.073	0.146						
275.07-276.50	31089	1.43		3.60	0.01	0.051		0.014	0.073	or 272.38-275.38	3.00m	0.75%	WO <sub>3</sub>		
276.50-277.93	31090	1.43		3.60	0.01	0.33		0.014	0.472	(2.249)					
277.93-279.38	31091	1.45		3.70	<0.01	0.010		0.000	0.015						
279.38-280.68	31092	1.30		2.90	<0.01	0.19		0.000	0.247						
280.68-280.95	31093	0.27		1.70	<0.01	0.013		0.000	0.004						
280.95-281.84	31094	0.89		2.60	<0.01	0.013		0.000	0.012						
281.84-282.44	31095	0.60		1.60	0.03	0.49		0.018	0.294	281.84-282.44	0.60m	0.49%	WO <sub>3</sub>		
282.44-292.60	Waste	10.16													
										250.39-257.50 (2.249)	7.11	0.32%	WO <sub>3</sub>		
										250.39-264.41 (9.503)	14.02	0.68%	WO <sub>3</sub>		

# DIAMOND DRILL RECORD

Date Began 16 July 1981 Date Complet 24 July 1981

Property CAB Claims Project No. 7398 Depth 178.0m  
 Hole No. 42 Co-ord 4 + 25N Horizontal Length \_\_\_\_\_  
 Sheet No. 1 of 2 14 + 21W Direction 225°  
 Claim No. CAB 10 Elevation 1830 Angle 77°

0 m 77°  
 25.6m 73.6°  
 56.1m 72.8°  
 86.6m 75.5°  
 117.0m 76.6°  
 147.5m 70.0°  
 178.0m 68.7°

Resident G

DEPTH	NUMBER	WIDTH	AU	ASSAY							WIDTH X ASSAY		AVERAGES					
				AG	KG	CU	WO <sub>3</sub>	PB	NI	Cu	WO <sub>3</sub>	WIDTH	AU	AG	CU	ZN		
0.00- 4.30	Casing	4.30																
4.30-107.85	Waste	103.55																
07.85-108.80	31098	0.95		1.4	Tr	0.079				0.000	0.075							
08.80-140.10	Waste	31.30																
40.10-141.26	31099	1.16		1.3	Tr	0.010				0.000	0.012							
41.26-141.38	31100	0.12		0.2	Tr	0.340				0.000	0.041							
41.38-142.55	31301	1.17		1.5	Tr	0.033				0.000	0.039							
42.55-148.45	Waste	5.90																
48.45-148.90	31302	0.45		0.7	Tr	0.008				0.000	0.004							
48.90-149.27	31303	0.37		0.65	Tr	0.350				0.000	0.130	148.90-149.27	0.37m			0.35% WO <sub>3</sub>		
49.27-151.00	31304	1.73		2.20	Tr	Tr				0.000	0.000							
51.00-151.84	31305	0.84		1.30	Tr	0.180				0.000	0.151							
51.84-152.20	31306	0.36		0.50	Tr	0.010				0.000	0.004							
52.20-153.06	31307	0.86		1.20	0.03	0.410				0.026	0.353	152.20-154.96	2.76m			0.20% WO <sub>3</sub>		
53.06-154.50	31308	1.44		1.70	Tr	TR				0.000	0.000	(0.565)						
54.50-154.96	31309	0.46		0.70	Tr	0.460				0.000	0.212							
54.96-155.42	31310	0.46		0.62	0.06	0.030				0.028	0.014							
55.42-155.92	31311	0.50		0.75	Tr	0.270				0.000	0.135							
55.92-157.38	31312	1.46		1.70	Tr	0.008				0.000	0.012							
57.38-157.51	31313	0.13		0.20	0.03	0.800				0.004	0.104							
57.51-158.25	31314	0.74		1.15	0.03	0.600				0.022	0.444	157.38-159.00	1.62m			1.56% WO <sub>3</sub>		
58.25-158.66	31315	0.41		0.70	0.10	3.92				0.041	1.607	(2.522)						
58.66-159.00	31316	0.34		0.49	0.03	1.08				0.010	0.367							
59.00-159.80	31317	0.80		0.95		0.160					0.128							
59.80-161.28	31318	1.48		1.55		0.170					0.252	or 157.38-160.38	3.00m			0.92% WO <sub>3</sub>		
61.28-161.81	31319	0.53		0.70		0.200					0.106	(2.749)						
61.81-162.86	31320	1.05		1.50		Tr					0.000							
62.86-163.60	31321	0.74		0.85		Tr					0.000							
63.60-164.54	31322	0.94		0.90		0.005					0.005							
64.54-165.12	31323	0.58		0.65		Tr					0.000							
65.12-165.55	31324	0.43		0.70		Tr					0.000							
65.55-165.80	31325	0.25		0.51		0.057					0.014							
65.80-166.55	31326	0.75		0.60		0.000					0.000							







Date Began 2 August 81 Date Completed 7 August 81  
 Property CAB Claims Project No. 7398 Depth 2.4  
 Hole No. 44 Co-ord 6 + 62N Horizontal Length \_\_\_\_\_  
 Sheet No. 1 of 3 13 + 06W Direction 273°  
 Claim No. CAB # 27 Elevation 1718m Angle 57°

51.5 58° 274.5°  
 103.3 61° 291.5°  
 152.1 61° 254.0°  
 200.9 59° 255.5°  
 255.1 59° 261.5°

Resident

DEPTH	NUMBER	WIDTH	AU	ASSAY						WIDTH X ASSAY		AVERAGES					
				XAG	KG	CU	ZN	WO <sub>3</sub>	PB	NI	WIDTH	AU	AG	CU	ZN		
0.00- 12.80	Casing	12.80															
12.80- 74.90	Waste	62.10															
74.90- 75.20	31366	0.30		0.75	0.04	0.53			0.012	0.159	74.90-75.20	0.30m			0.53%	WO <sub>3</sub>	
75.20- 76.50	Waste	1.30															
76.50- 76.75	31367	0.25		0.70	0.03	0.098			0.008	0.025							
76.75- 81.63	Waste	4.88															
81.63- 81.84	31368	0.21		0.75	0.03	0.44			0.006	0.092	81.62-81.84	0.21m			0.44%	WO <sub>3</sub>	
81.84-101.30	Waste	19.46															
101.30-102.30	31369	1.00		2.65	<0.01	0.040			0.000	0.040							
102.30-114.15	Waste	11.85															
114.15-114.70	31370	0.55		1.45	<0.01	0.087			0.000	0.048							
114.70-116.50	Waste	1.80															
116.50-117.30	31371	0.80		2.30	<0.01	0.18			0.000	0.144							
117.30-133.20	Waste	15.90															
133.20-133.96	31372	0.76		2.10	0.02	0.13			0.015	0.099							
133.96-136.10	Waste	2.14															
136.10-136.63	31373	0.53		1.10	<0.01	0.098			0.000	0.052							
136.63-137.30	31374	0.67		1.60	<0.01	0.005			0.000	0.003							
137.30-137.55	31375	0.25		0.65	<0.01	0.28			0.000	0.070							
137.55-138.55	Waste	1.00															
138.55-138.70	31376	0.15		0.50	<0.01	0.084			0.000	0.013							
138.70-139.00	31377	0.30			<0.01	0.024			0.000	0.007							
139.00-140.76	Waste	1.76															
140.76-141.10	31378	0.34			0.02	0.19			0.007	0.065							
141.10-172.00	Waste	30.90															
172.00-172.35	31379	0.35			0.01	0.15			0.000	0.053							
172.35-173.45	31380	1.10			0.01	0.024			0.000	0.026							
173.45-178.60	Waste	5.15															
178.60-179.47	31381	0.87			<0.01	0.061			0.000	0.053							
179.47-180.56	31382	1.09			<0.01	0.21			0.000	0.229	179.47 - 180.56	1.09m			0.21%	WO <sub>3</sub>	
180.56-182.00	31383	1.44			<0.01	<0.005			0.000	0.000							
182.00-182.30	31384	0.30			<0.01	1.07			0.000	0.321	182.00 - 182.30	0.30m			1.07%	WO <sub>3</sub>	
182.30-182.55	31385	0.25			<0.01	0.10			0.000	0.025							
182.55-197.50	Waste	14.95									or 179.47 - 182.30	2.83m			0.19%	WO	

Date Began ..... Date Completed .....  
 Property : LAB Claims ..... Project No. .... Depth .....  
 Hole No. 44 ..... Co-ord ..... Horizontal Length .....  
 Sheet No. 2 of 3 ..... Direction .....  
 Claim No. .... Elevation ..... Angle .....

Resident C

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES				
			AU	AG	CU	FeWO <sub>3</sub>	PB	NI	WIDTH	AU	AG	CU	ZN		
197.50-198.00	31386	0.50			<0.01	0.11			0.000	0.055					
198.00-198.40	31387	0.40			0.01	0.60			0.004	0.240	198.00 - 198.40	0.40m		0.60% WO <sub>3</sub>	
198.40-198.57	31388	0.17			<0.01	0.012			0.000	0.002					
198.57-201.60	Waste	3.03													
201.60-202.70	31389	1.10			<0.01	0.050			0.000	0.055					
202.70-204.25	31390	1.55			<0.01	0.026			0.000	0.040					
204.25-204.95	31391	0.70			<0.01	<0.005			0.000	0.000					
204.95-205.55	31392	0.60			<0.01	0.21			0.000	0.126	204.95 - 205.55	0.60m		0.21% WO <sub>3</sub>	
205.55-206.25	31393	0.70			<0.01	0.005			0.000	0.004					
206.25-206.40	31394	0.15			0.04	0.84			0.006	0.126	206.25 - 206.40	0.15m		0.84% WO <sub>3</sub>	
206.40-207.80	31395	1.40			<0.01	0.005			0.000	0.007					
207.80-208.52	31396	0.72			<0.01	0.084			0.000	0.060					
208.52-209.05	31397	0.53			0.02	0.36			0.010	0.191	208.52 - 209.05	0.53m		0.36% WO <sub>3</sub>	
209.05-210.20	31398	1.15			<0.01	0.15			0.000	0.173					
210.20-210.65	31399	0.45			0.02	0.21			0.009	0.095	210.20 - 210.65	0.45m		0.21% WO <sub>3</sub>	
210.65-211.50	31400	0.85			<0.02	0.021			0.000	0.018					
211.50-212.45	31401	0.95			<0.01	0.007			0.000	0.007					
212.45-213.50	31402	1.05			<0.01	0.18			0.000	0.189					
213.50-214.90	31403	1.40			0.06	0.85			0.084	1.190					
214.90-215.50	31404	0.60			<0.01	0.16			0.000	0.096	213.50 - 217.00	3.50		0.61% WO <sub>3</sub>	
215.50-215.75	31405	0.25			<0.01	1.35			0.000	0.338	(2.149)				
215.75-217.00	31406	1.25			<0.01	0.42			0.000	0.525					
217.00-217.80	31407	0.80			0.01	0.059			0.008	0.047					
217.80-218.20	31408	0.40			0.03	0.53			0.012	0.212	217.00 - 219.30	2.30m		0.14% WO <sub>3</sub>	
218.20-218.40	31409	0.20			0.01	0.035			0.002	0.007	(0.323)				
218.40-219.30	31410	0.90			0.01	0.063			0.009	0.057					
219.30-219.75	31411	0.45			0.06	0.44			0.027	0.198					
219.75-220.35	31412	0.60			0.08	1.38			0.048	0.828	219.30 - 222.25	2.95		0.64% WO <sub>3</sub>	
220.35-221.35	31413	1.00			<0.01	0.087			0.000	0.087	(1.896)				
221.35-222.25	31414	0.90			0.06	0.87			0.054	0.783					
222.25-222.70	31415	0.45			0.05	0.043			0.023	0.019					
222.70-223.45	31416	0.75			<0.01	0.018			0.000	0.014	or 213.50 - 222.25	8.75m		0.50% WO <sub>3</sub>	
223.45-224.20	31417	0.75			<0.01	0.012			0.000	0.009	(4.368)				
224.20-225.00	31418	1.35			<0.01	0.013			0.000	0.018					

# DIAMOND DRILL RECORD

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

Property CAB Claims ..... Project No. .... Depth .....

Hole No. 44 ..... Co-ord ..... Horizontal Length .....

Sheet No. 3 of 3 ..... Direction .....

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

DEPTH	NUMBER	WIDTH	ASSAY					WIDTH X ASSAY		AVERAGES				
			AU	AG	CU	WO <sub>3</sub>	PB	NI	WIDTH	AU	AG	CU	ZN	
25.55-227.05	31419	1.50		<0.01	0.028			0.000	0.042					
27.05-227.95	31420	0.90		<0.01	0.033			0.000	0.030					
27.95-228.40	31421	0.45		0.06	1.50			0.027	0.675					
28.40-229.90	31422	1.50		0.03	0.66			0.045	0.99	227.95 - 231.25	3.30		0.70% WO <sub>3</sub>	
29.90-230.05	31473	0.15		0.06	0.59			0.009	0.089	(2.317)				
30.05-230.53	31423	0.48		<0.01	0.094			0.000	0.045					
30.53-231.25	31424	0.72		0.02	0.72			0.014	0.518					
31.25-232.30	31425	1.05		<0.01	0.046			0.000	0.048					
32.30-232.75	31426	0.45		<0.01	0.079			0.000	0.036	or 219.30 - 231.25	11.95m		0.36% WO <sub>3</sub>	
32.75-233.60	31427	0.85		<0.01	0.087			0.000	0.074	(4.345)				
33.60-234.20	31428	0.60		<0.01	0.028			0.000	0.017					
34.20-234.60	31429	0.40		<0.01	0.016			0.000	0.006					
34.60-235.55	31430	0.95		0.01	0.41			0.010	0.390	234.60 - 236.20	1.60m		0.68% WO <sub>3</sub>	
35.55-236.20	31431	0.65		0.08	1.07			0.052	0.696	(1.086)				
36.20-236.75	31432	0.55		0.09	0.031			0.050	0.017	or 234.60 - 237.30	2.70		0.56% WO <sub>3</sub>	
36.75-237.30	31433	0.55		0.14	0.73			0.077	0.402	(1.505)				
37.30-237.80	31434	0.50		0.01	0.073			0.005	0.037	or 227.95 - 237.30	9.35m		0.43% WO <sub>3</sub>	
37.80-238.35	31435	0.55		<0.01	0.010			0.000	0.006	(4.003)				
38.35-239.90	31436	1.55		<0.01	0.061			0.000	0.095					
39.90-240.35	31437	0.45		0.01	0.018			0.005	0.008					
40.35-240.85	31438	0.50		0.02	1.15			0.010	0.575	240.35 - 240.85	0.50m		1.15% WO <sub>3</sub>	
40.85-241.50	31439	0.65		0.06	0.22			0.039	0.143	240.85 - 241.80	0.95m		0.23% WO <sub>3</sub>	
41.50-241.80	31440	0.30		0.01	0.25			0.003	0.075	(0.218)				
41.80-242.90	31441	1.10		<0.01	0.021			0.000	0.023					
42.90-243.10	31442	0.20		0.04	0.21			0.008	0.042					
43.10-243.45	31443	0.35		0.03	0.028			0.011	0.010					
43.45-255.40	Waste	11.95								or 219.30 - 237.30	18.00m		0.34% WO <sub>3</sub>	
										(6.031)				

Property CAB Claims Project No. 7398 Depth 328.3m  
 Hole N 45 Co-ord 8 + 57N Horizontal length  
 Sheet No. 1 of 2 14 + 06W Direction 225°  
 Claim No. CAB 28 Elevation 1663 m Angle ~65°

121.9 m 65.4°  
 152.4 m 65.4°  
 182.9 m 62.7°  
 213.4 m 60.4°  
 243.8 m 58.2°

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DEPTH	NUMBER	WIDTH	AU	KG AG	ASSAY NO. CU	XX	PB	NI	WIDTH X ASSAY	AVERAGES					
										WIDTH	AU	AG	CU	ZN	
0.00 - 9.75	Casing	9.75													
9.75 - 218.30	Waste	208.55													
18.30-218.90	31474	.60		1.60	<0.01	0.068		0.000	0.041						
18.90-222.70	Waste	3.80													
22.70-223.45	31475	0.75		2.10	<0.01	0.043		0.000	0.032						
23.45-240.75	Waste	17.30													
40.75-241.25	31476	0.50		1.35	<0.01	0.49		0.000	0.245	240.75 - 241.25	0.50m		0.49% WO <sub>3</sub>		
41.25-243.10	Waste	1.85													
43.10-243.85	31477	0.75		1.60	<0.01	0.066		0.000	0.050						
43.85-247.20	Waste	3.35													
47.20-247.50	31478	0.30		0.75	<0.01	0.041		0.000	0.012						
47.50-266.80	Waste	19.30													
66.80-267.15	31479	0.35		0.65	<0.01	0.036		0.000	0.013						
67.15-267.90	31480	0.75		1.00	<0.01	0.15		0.000	0.113						
67.90-268.90	31481	1.00		1.40	<0.01	0.011		0.000	0.011						
68.90-270.20	31482	1.30		1.70	<0.01	0.30		0.000	0.390	268.90 - 270.20	1.30m		0.30% WO <sub>3</sub>		
70.20-270.40	31483	0.20		0.40	<0.01	0.043		0.000	0.009						
70.40-277.10	Waste	6.70													
77.10-278.30	31484	1.20		0.90	<0.01	0.24		0.000	0.288	277.10 - 278.30	1.20m		0.24% WO <sub>3</sub>		
78.30-278.70	31485	0.40		1.15	<0.01	0.075		0.000	0.030						
78.70-279.80	31486	1.10		0.95	<0.01	0.028		0.000	0.031						
79.80-281.90	Waste	2.10													
81.90-284.40	31487	2.50		1.80	<0.01	0.056		0.000	0.140						
84.40-285.60	Waste	1.20													
85.60-285.80	31488	0.20		0.25	<0.01	0.008		0.000	0.002						
85.80-287.60	31489	1.80		2.50	0.02	0.42		0.036	0.756	285.80 - 287.60	1.80m		0.42% WO <sub>3</sub>		
87.60-288.00	31490	0.40		0.50	<0.01	0.056		0.000	0.022						
88.00-288.90	31491	0.90		1.30	0.01	0.33		0.009	0.297	288.00 - 289.60	1.60m		0.22% WO <sub>3</sub>		
88.90-289.60	31492	0.70		0.80	<0.01	0.073		0.000	0.051	(0.348)					
89.60-290.00	31493	0.40		0.50	0.06	2.07		0.024	0.828						
90.00-290.50	31494	0.50		0.55	0.04	0.27		0.020	0.135	289.60 - 291.35	1.75m		0.77% WO <sub>3</sub>		
90.50-290.90	31495	0.40		0.50	<0.01	0.066		0.000	0.026	(1.349)					
90.90-291.35	31496	0.45		0.60	0.13	0.80		0.059	0.360						
91.35-291.95	31497	0.60		0.55	<0.01	0.048		0.000	0.029	or 288.00 - 291.35	3.35m		0.51% WO <sub>3</sub>		
										(1.697)					

Date Begun ..... Date Completed .....  
 Property CAB Claims Project No. Depth .....  
 Hole No. 45 Co-ord ..... Horizontal Length .....  
 Sheet No. 2 of 2 Direction .....  
 Claim No. Elevation Angle .....

DEPTH	NUMBER	WIDTH	AU	ASSAY			PB	NI	WIDTH X ASSAY		AVERAGES				
				KG	CU	WO <sub>3</sub>			WIDTH	AU	AG	CU	ZN		
291.95-292.40	31498	0.45		0.70	0.02	0.27		0.009	0.122						
292.40-293.25	31499	0.85		1.20	<0.01	0.018		0.000	0.015						
293.25-294.90	31500	1.65		1.70	<0.01	0.045		0.000	0.074						
294.90-295.90	31201	1.00		1.25	<0.01	0.061		0.000	0.061						
295.90-296.60	31202	0.70		0.90	<0.01	0.026		0.000	0.018						
296.60-297.30	31203	0.70		1.00	0.03	0.60		0.021	0.420	296.60 - 297.70	1.00m		0.62% WO <sub>3</sub>		
297.30-297.60	31204	0.30		0.55	<0.01	0.68		0.000	0.204	(0.624)					
297.60-298.55	31205	0.95		1.25	0.04	0.02		0.038	0.019						
298.55-299.60	31206	1.05		1.40	0.03	0.41		0.032	0.431						
299.60-300.05	31207	0.45		0.65	0.04	0.41		0.018	0.185						
300.05-300.30	31208	0.25		0.40	0.02	0.44		0.005	0.110	298.55 - 304.50	5.95m		0.48% WO <sub>3</sub>		
300.30-301.80	31209	1.50		2.00	<0.01	0.49		0.000	0.735	(2.861)					
301.80-302.25	31210	0.45		0.65	0.03	0.05		0.014	0.023						
302.25-303.30	31211	1.05		1.70	0.03	0.50		0.032	0.525						
303.30-304.50	31212	1.20		2.70	0.03	0.71		0.036	0.852						
304.50-305.35	31213	0.85		1.45	<0.01	0.10		0.000	0.085						
305.35-306.85	31214	1.50		2.35	0.03	0.02		0.045	0.030						
306.85-307.20	31215	0.35		0.50	0.06	0.83		0.021	0.291	306.85 - 307.20	0.35m		0.83% WO <sub>3</sub>		
307.20-308.40	31216	1.20		1.90	<0.01	0.15		0.000	0.180						
308.40-312.95	Waste	4.55													
312.95-313.10	31217	0.15		0.30	<0.01	0.07		0.000	0.011						
313.10-313.85	31218	0.75		1.20	0.09	0.91		0.068	0.683	313.10 - 313.85	0.75m		0.91% WO <sub>3</sub>		
313.85-314.30	31219	0.45		0.65	0.01	0.07		0.005	0.032	or 313.10 - 315.05	1.95m		0.52% WO <sub>3</sub>		
314.30-315.05	31220	0.75		1.10	0.01	0.39		0.008	0.293	314.30 - 315.05	0.75m		0.39% WO <sub>3</sub>		
315.05-315.60	31221	0.55		0.70	<0.01	0.06		0.000	0.033						
315.60-316.30	31222	0.70		1.00	<0.01	0.07		0.000	0.049						
316.30-316.85	31223	0.55		0.90	0.01	0.44		0.006	0.242	316.30 - 318.35	2.05m		0.20% WO <sub>3</sub>		
316.85-318.10	31224	1.25		1.60	<0.01	0.12		0.000	0.150	(0.417)					
318.10-318.35	31225	0.25		0.40	0.11	0.10		0.028	0.025						
318.35-318.85	31226	0.50		0.90	0.05	2.02		0.025	1.010						
318.85-319.40	31227	0.55		0.90	0.15	1.01		0.083	0.556	318.35 - 319.95	1.60m		1.12% WO <sub>3</sub>		
319.40-319.95	31228	0.55		0.80	0.04	0.40		0.022	0.220	(1.786)					
319.95-320.10	31229	0.15		0.35	<0.01	0.06		0.000	0.009						
320.10-328.30	Waste	8.20								or 316.30 - 319.95	3.65m		0.60% WO <sub>3</sub>		
										(0.203)					

Date Began 13 Aug. 1981 Date Completed 17 Aug. 81  
 Project CAB Claims Project No. 7398 Depth 7.7m  
 Hole No. 46 Co-ord 8 + 22N Horizontal Length  
 Sheet No. 1 of 2 11 + 13W Direction 217°  
 Claim No. CAB 28 Elevation 1623M Angle 66.4°

61.0 m  
 91.4 m  
 121.9 m  
 152.4 m  
 182.9 m  
 213.4 m

64.0  
 63.5  
 62.1  
 57.7  
 57.5  
 59.4

Resi

DEPTH	NUMBER	WIDTH	AU	ASSAY					WIDTH X ASSAY		AVERAGES				
				KG *3	CU	WO *3	PB	NI	WIDTH	AU	AG	CU	ZN		
0.00- 7.30	Casing	7.30													
7.30-167.03	Waste	159.73													
67.03-168.05	31275	1.02		1.47	<0.01	0.066		0.000	0.067						
68.05-169.28	31276	1.23		1.53	<0.01	0.014		0.000	0.017						
69.28-170.21	31277	0.93		1.13	<0.01	0.008		0.000	0.007						
70.21-170.45	31278	0.24		0.51	<0.01	0.20		0.000	0.048						
70.45-171.70	31279	1.25		1.79	<0.01	0.14		0.000	0.018						
71.70-172.50	31280	0.80		1.27	<0.01	0.050		0.000	0.040						
72.50-174.00	31250	1.50		1.60	<0.01	0.098		0.000	0.147						
74.00-175.40	31251	1.40		1.40	<0.01	0.07		0.000	0.098						
75.40-176.70	31252	1.30		1.50	<0.01	0.19		0.000	0.247	175.40 - 176.70	1.30m		0.19% WO <sub>3</sub>		
76.70-180.68	waste	3.98													
80.68-180.86	31253	0.18		0.20	<0.01	0.069		0.000	0.012						
80.86-189.60	Waste	8.74													
89.60-189.70	31240	0.10		0.10	<0.01	0.088		0.000	0.009						
89.70-193.43	Waste	3.73													
93.43-193.66	31241	0.23		0.30	<0.01	<0.005		0.000	0.000						
93.66-194.10	31242	0.44		0.80	0.02	0.30		0.002	0.132	193.66 - 194.10	0.44m		0.30% WO <sub>3</sub>		
94.10-195.40	31243	1.30		1.35	<0.01	0.057		0.000	0.074						
95.40-196.07	31244	0.67		1.85	0.01	0.16		0.007	0.107						
96.07-196.86	31245	0.79		1.10	<0.01	0.047		0.000	0.037						
96.86-197.37	31246	0.51		0.65	0.03	0.22		0.015	0.112	196.86 - 197.37	0.51m		0.22% WO <sub>3</sub>		
97.37-198.65	31247	1.28		1.90	<0.01	<0.005		0.000	0.000						
98.65-199.60	31248	0.95		0.80	0.02	0.63		0.019	0.599	198.65 - 199.60	0.95m		0.63% WO <sub>3</sub>		
99.60-201.10	31249	1.50		1.10	0.02	0.061		0.030	0.092						
201.10-201.20	Waste	0.10								or 198.65 - 202.05	3.40m		0.23% WO <sub>3</sub>		
201.20-201.81	31254	0.61		0.40	<0.01	<0.005		0.000	0.000	(0.792)					
201.81-202.05	31255	0.24		0.32	<0.01	0.42		0.000	0.101	201.81 - 202.05	0.24m		0.42% WO <sub>3</sub>		
202.05-219.90	Waste	17.85													
19.90-220.15	31256	0.25		0.35	<0.01	<0.005		0.000	0.000						
20.15-220.51	31257	0.36		0.60	0.03	0.32		0.011	0.115	220.15 - 220.51	0.36m		0.32% WO <sub>3</sub>		
20.51-220.81	31258	0.30		0.45	<0.01	<0.005		0.000	0.000						
20.81-221.01	31259	0.22		0.25	0.03	0.24		0.022	0.048						
21.01-222.30	31260	1.09		0.00	0.11	0.93		0.143	1.000						



## APPENDIX C

### REVIEW OF EXPENDITURES

The following invoices cover diamond drill holes #38 to #46 totalling 2183 metres. The total expenditures were sufficient to support the year's assessment applied to the groupings as shown on the claim map.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

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

March 26, 1982.



Mining Recorder,  
 Whitehorse Mining District,  
 Whitehorse, Yukon.

Dear Sir:

Enclosed are group certificates, applications for a certificate of work and a report to cover assessment applied on the CAB claims located at 105F/14.

The drilling was located on claims CAB 10, 25, 27 and 28. Following is a breakdown of the assessment applied from each one of these claims:

CAB 10	Group 2	60 years
	Group 3	40 years
	Group 4	56 years
	Group 5	<u>60 years</u>
		216 years

This assessment is covered by drill holes #42 & #43.

Invoice charges #42	26,654.50
#43	2,883.00
	<u>18,318.50</u>
	\$ 47,856.00

CAB 25	Group 6	60 years
	Group 7	<u>64 years</u>
		124 years

This assessment is covered by drill hole #38.

Invoice Charges #38	\$ 21,443.75
---------------------	--------------

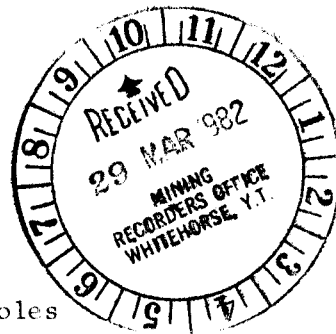
CAB 27	Group 1	64 years
	Group 9	<u>44 years</u>
		108 years

This assessment is covered by drill holes

#39, #40, #41 and #44.

Invoice Charges #39	17,465.75
#40	7,090.00
	14,170.75
#41	26,229.50
#44	<u>20,983.00</u>
	\$ 85,939.00

091005



CAB 28                      Group 8              64 years

This assessment is covered by drill holes

#45 and #46.

Invoice Charges #45	26,891.50
#46	9,805.00
	<u>12,052.75</u>
	\$ 48,749.25

Also enclosed is a cheque for \$2,605.00 to cover the following fees:

Group certificates 9 x 5.00 = 45.00

Group 1	64 years
2	60 years
3	40 years
4	56 years
5	60 years
6	60 years
7	64 years
8	64 years
9	<u>44 years</u>

512 years x 5.00 = 2,560.00  
\$ 2,605.00

Respectfully,

A handwritten signature in black ink, appearing to read "D. A. Downing."

DAD/dw

Encl.

copy file



June 30, 1981

Invoice #- 991

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Corp.,  
100 - 10 Burns Road,  
Whitehorse, Y.T.

Drilling Charges June 15 to 30, 1981:

(Fox Creek)

Hole 38/78/NQ

Moving

✓ 12 man hrs. @ \$23.00 per hr. = \$ 1,886.00

Reaming Cave

✓ 12 man hrs. @ \$23.00 per hr. = \$ 276.00

✓ 6 mach. hrs. @ \$13.50 per hr. = \$ 81.00 \$ 357.00

Casing

7 man hrs. @ \$23.00 per hr. = \$ 46.00

1 mach. hr. @ \$13.50 per hr. = \$ 13.50 \$ 59.50

Testing

8 man hrs. @ \$23.00 per hr. = \$ 184.00

4 mach. hr. @ \$13.50 per hr. = \$ 54.00 \$ 238.00

Repairs to Sloop(H.B.D.)

1 man hr. @ \$23.00 per hr. = \$ 23.00

Standby Catskinner

6 man hrs. @ \$23.00 per hr. = \$ 138.00

Travelling Time

✓ 12 man hrs. @ \$23.00 per hr. = \$ 276.00

Tractor Time

✓ 46 cat hrs. @ \$75.00 per hr. = \$ 3,450.00

Truck Time

✓ 8 truck hrs. @ \$40.00 per hr. = \$ 320.00

Casing

0 - 40 = 40 ft. @ \$27.50 per ft. = \$ 1,100.00



Coring

40 - 500 = 460 ft. @ \$23.00 per ft. = \$10,580.00  
 500 - 627 = 127 ft. @ \$23.75 per ft. = \$ 3,016.25    \$13,596.25    \$21,443.75

Hole 39/78/NQ

Moving

22 man hrs. @ \$23.00 per hr. = \$ 506.00

Casing

4 man hrs. @ \$23.00 per hr. = \$ 92.00  
 2 mach. hrs. @ \$13.50 per hr. = \$ 27.00    \$ 119.00

Testing

6 man hrs. @ \$23.00 per hr. = \$ 138.00  
 3 mach. hrs. @ \$13.50 per hr. = \$ 40.50    \$ 178.50

Tractor Time

8 cat hrs. @ \$75.00 per hr. = \$ 600.00

Casing

0 - 48 = 48 ft. @ \$27.50 per ft. = \$ 1,320.00

Coring

48 - 500 = 452 ft. @ \$23.00 per ft. = \$10,396.00  
 500 - 683 = 183 ft. @ \$23.75 per ft. = \$ 4,346.25    \$14,742.25    \$17,465.75

Hole 40/78/NQ

Moving

22 man hrs. @ \$23.00 per hr. = \$ 506.00

Casing

4 man hrs. @ \$23.00 per hr. = \$ 92.00  
 2 mach. hrs. @ \$13.50 per hr. = \$ 27.00    \$ 119.00

Repairs to Sloop (H.B.E.D.)

3 1/2 man hrs. @ \$23.00 per hr. = \$ 80.50

Travelling Time

13 man hrs. @ \$23.00 per hr. = \$ 299.00

Tractor Time

3 cat hrs. @ \$75.00 per hr. = \$ 225.00

Casing

0 - 12 = 12 ft. @ \$32.00 per ft. = \$ 384.00  
 12 - 33 = 21 ft. @ \$27.50 per ft. = \$ 577.50    \$ 961.50

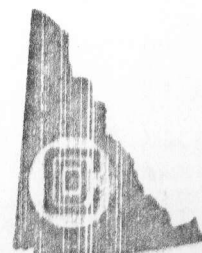
Coring

33 - 246 = 213 ft. @ \$33.00 per ft. = \$ 7,029.00    \$ 7,090.00

Mobilization

of drill & equipment @ \$800.00 = \$ 800.00

Total Invoice:    \$46,799.50



July 15, 1981

Invoice #-1006

IN ACCOUNT WITH:

Dudson Bay Exploration & Development Corp.,  
 700 - 10 Burns Road,  
 Whitehorse, Y. T.

Drilling Charges July 1 to 15, 1981: (Fox Creek)

Well: 40/78/NQ

<u>Testing</u>			
20 man hrs.	@ \$23.00 per hr.	= \$ 460.00	
10 machine hrs.	@ \$13.50 per hr.	= \$ 135.00	\$ 595.00
<u>Tractor Time</u>			
4 machine hrs.	@ \$75.00 per hr.	=	\$ 300.00
<u>Coring</u>			
240 - 500 = 254 ft.	@ \$23.00 per ft.	= \$5,842.00	
500 - 813 = 313 ft.	@ \$23.75 per ft.	= \$7,433.75	\$13,275.75
			\$14,170.75

Well: 41-70/NQ

<u>Moving</u>			
10 man hrs.	@ \$23.00 per hr.	=	\$ 621.00
<u>Drilling</u>			
35 man hrs.	@ \$23.00 per hr.	= \$ 874.00	
19 machine hrs.	@ \$13.50 per hr.	= \$ 256.50	\$ 1,130.50
<u>Reading Cave</u>			
20 man hrs.	@ \$23.00 per hr.	= \$ 552.00	
4 machine hrs.	@ \$13.50 per hr.	= \$ 162.00	\$ 714.00
<u>Logging</u>			
5 man hrs.	@ \$23.00 per hr.	= \$ 114.00	
2 machine hrs.	@ \$13.50 per hr.	= \$ 27.00	\$ 238.00
<u>Travelling-Cat Skinner</u>			
4 man hrs.	@ \$23.00 per hr.	=	\$ 92.00
<u>Tractor Time</u>			
16 machine hrs.	@ \$75.00 per hr.	=	\$ 1,200.00
<u>Casing</u>			
0 - 52 = 52 ft.	@ \$27.50 per ft.	=	\$ 1,430.00
<u>Coring</u>			
0 - 500 = 448 ft.	@ \$23.00 per ft.	= \$10,304.00	
0 - 960 = 460 ft.	@ \$23.75 per ft.	= \$10,925.00	\$21,229.00
			\$26,654.50

Well: 42/NQ

<u>Moving</u>			
10 man hrs.	@ \$23.00 per hr.	=	\$ 782.00





ATOM DIAMOND DRILLING LTD

7 Roundel Road Whitehorse Yukon

Phone (403) 663 2424 Telex 035 B 337

Waterline

6 man hrs. @ \$23.00 per hr. = \$ 138.00

Testing

8 man hrs. @ \$23.00 per hr. = \$ 184.00

4 machine hrs. @ \$13.50 per hr. = \$ 54.00 \$ 238.00

Tractor Time

23 machine hrs. @ \$75.00 per hr. = \$ 1,725.00 \$ 2,883.00

Shirley Air

Invoice # 79926

for helicopter split @ \$1,145.98 - 2 = \$ 572.99

Total Invoice \$44,281.24





CARON DIAMOND DRILLING LTD.

7 Pendel Road Whitehorse, Yukon.

Phone (403) 668-2424 Telex 036 8-337

July 31, 1981

Invoice #- 1025

IN ACCOUNT WITH:

Hudson Bay Exploration & Development Co.,  
100 - 10 Burns Road,  
Whitehorse, Y.T.

Drilling Charges July 16 to 31, 1981:

(Fox Creek)

Hole 42/77/NQ

Moving

4 man hrs. @ \$ 23.00 per hr. = \$ 92.00

Casing

28 man hrs. @ \$ 23.00 per hr. = \$ 644.00  
14 mach. hrs. @ \$ 13.50 per hr. = \$ 189.00 \$ 833.00

Reaming Cave

22 man hrs. @ \$ 23.00 per hr. = \$ 506.00  
11 mach. hrs. @ \$ 13.50 per hr. = \$ 148.50 \$ 654.50

Waterline

4 man hrs. @ \$ 23.00 per hr. = \$ 92.00

Mid Time

30 man hrs. @ \$ 23.00 per hr. = \$ 690.00  
15 mach. hrs. @ \$ 13.50 per hr. = \$ 202.50 \$ 892.50

Cementing & Sealing

44 man hrs. @ \$ 23.00 per hr. = \$ 1,012.00  
22 mach. hrs. @ \$ 13.50 per hr. = \$ 297.00 \$ 1,309.00

Testing

12 man hrs. @ \$ 23.00 per hr. = \$ 276.00  
6 mach. hrs. @ \$ 13.50 per hr. = \$ 81.00 \$ 357.00

Time Not Accounted

Reducing & fighting sand

36 man hrs. @ \$ 23.00 per hr. = \$ 828.00  
19 mach. hrs. @ \$ 13.50 per hr. = \$ 256.50 \$ 1,084.50

Casing

0 - 14 = 14 ft. @ \$ 27.50 per ft. = \$ 385.00



Coring

14 - 307 = 293 ft.	@ \$ 23.00 per ft.	= \$ 6,739.00		
307 - 500 = 193 ft.	@ \$ 21.00 per ft.	= \$ 4,053.00		
500 - 584 = 84 ft.	@ \$ 21.75 per ft.	= \$ 1,827.00	<u>\$12,619.00</u>	\$18,318.50

Hole 43/90/BQMoving

16 man hrs.	@ \$ 23.00 per hr.	=	\$ 368.00	
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Drilling

6 man hrs.	@ \$ 23.00 per hr.	= \$ 138.00		
3 mach. hrs.	@ \$ 13.50 per hr.	= \$ 40.50	\$ 178.50	

Casing & Reducing

8 man hrs.	@ \$ 23.00 per hr.	= \$ 1,834.00		
2 mach. hrs.	@ \$ 13.50 per hr.	= \$ 27.00	\$ 1,725.50	

Reaming Cave

8 man hrs.	@ \$ 23.00 per hr.	= \$ 184.00		
4 mach. hrs.	@ \$ 13.50 per hr.	= \$ 54.00	\$ 238.00	

Mud Time

8 man hrs.	@ \$ 23.00 per hr.	= \$ 184.00		
4 mach. hrs.	@ \$ 13.50 per hr.	= \$ 54.00	\$ 238.00	

Casing

0 - 14 = 14 ft.	@ \$ 27.50 per ft.	=	\$ 385.00	
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Coring

14 - 380 = 366 ft.	@ \$ 23.00 per ft.	= \$ 8,418.00		
380 - 500 = 120 ft.	@ \$ 21.00 per ft.	= \$ 2,520.00		
500 - 730 = 230 ft.	@ \$ 21.75 per ft.	= \$ 5,002.50	<u>\$15,940.50</u>	\$19,073.50

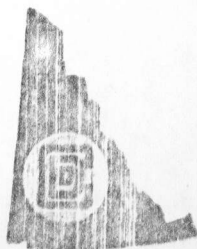
Items Consumed & Chargeable

14 Boxes Quik-Trol	@ \$ 96.00 each	= \$ 1,344.00		
118 bags Quik-Gel	@ \$ 12.74 each	= \$ 1,503.32		
8 bags Quik-Seal	@ \$ 44.35 each	= \$ 354.80		
8 bags Fondu Cement	@ \$ 36.00 each	= \$ 288.00		
16 BQ Core Boxes	@ \$ 7.00 each	= \$ 112.00	\$ 3,602.12	
	+ 15%	=	<u>\$ 540.31</u>	\$ 4,142.43

Casing Left in Hole #39

3 pieces 2' HW casing	@ \$ 54.45 each	= \$ 163.35		
1 HW Shoe	@ \$445.00 each	= \$ 445.00		
4 pieces NW casing	@ \$126.75 each	= \$ 507.00		
4 pieces 2' NW casing	@ \$ 36.75 each	= \$ 147.00		
1 NW Casing Shoe	@ \$268.00 each	= \$ 268.00	\$ 1,530.35	
	+ 15%	=	<u>\$ 229.55</u>	\$ 1,759.90

Total Invoice: \$43,294.33





August 19, 1981

Invoice #- 1046

IN ACCOUNT WITH:

Edson Bay Exploration,  
100 - 10 Burns Road,  
Whitehorse, Y.T.

Drilling Charges August 1 to 19, 1981: (Fos Creek)

Job 43/87/BQ

Mud Time

10 man hrs.	@ \$ 23.00 per hr.	= \$	46.00	
1 mach. hr.	@ \$ 13.50 per hr.	= \$	<u>13.50</u>	\$ 59.50
<u>Logging</u>				
10 man hrs.	@ \$ 23.00 per hr.	= \$	368.00	
1 mach. hrs.	@ \$ 13.50 per hr.	= \$	<u>108.00</u>	\$ 476.00
<u>Coring</u>				
30 - 802 = 72 ft.	@ \$ 21.75 per ft.	=		<u>\$ 1,566.00</u> \$ 2,101.50

Job 44/55/NQ

Moving

10 man hrs.	@ \$ 23.00 per hr.	=		\$ 621.00
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Casing

10 man hrs.	@ \$ 23.00 per hr.	= \$	276.00	
1 mach. hrs.	@ \$ 13.50 per hr.	= \$	<u>81.00</u>	\$ 357.00

Logging

10 man hrs.	@ \$ 23.00 per hr.	= \$	230.00	
1 mach. hrs.	@ \$ 13.50 per hr.	= \$	<u>67.50</u>	\$ 297.50

Coring

30 - 40 = 40 ft.	@ \$ 27.50 per ft.	=		\$ 1,100.00
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Coring

30 - 500 = 460 ft.	@ \$ 23.00 per ft.	= \$10,580.00		
30 - 838 = 338 ft.	@ \$ 23.75 per ft.	= \$ <u>8,027.50</u>	<u>\$18,607.50</u>	\$20,983.00

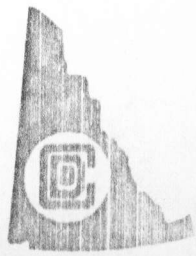
Job 45/65/NQ

Moving

10 man hrs.	@ \$ 23.00 per hr.	=		\$ 621.00
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Drilling

10 man hrs.	@ \$ 23.00 per hr.	= \$	184.00	
1 mach. hrs.	@ \$ 13.50 per hr.	= \$	<u>54.00</u>	\$ 238.00





Reaming Cave

14 man hrs. @ \$ 23.00 per hr. = \$ 322.00  
 7 mach. hrs. @ \$ 13.50 per hr. = \$ 94.50 \$ 416.50

Testing

20 man hrs. @ \$ 23.00 per hr. = \$ 460.00  
 10 mach. hrs. @ \$ 13.50 per hr. = \$ 135.00 \$ 595.00

Casing

0 - 32 = 32 ft. @ \$ 27.50 per ft. = \$ 880.00

Coring

32 - 500 = 468 ft. @ \$ 23.00 per ft. = \$10,764.00  
 500 - 827 = 327 ft. @ \$ 23.75 per ft. = \$ 7,766.25  
 827 - 1000 = 173 ft. @ \$ 21.75 per ft. = \$ 3,762.75  
 1000 - 1077 = 77 ft. @ \$ 24.00 per ft. = \$ 1,848.00  
 \$24,141.00 \$26,891.50

File 46/67/NQ

Logging

22 man hrs. @ \$ 23.00 per hr. = \$ 506.00

Casing

0 - 22 = 22 ft. @ \$ 27.50 per ft. = \$ 605.00

Coring

22 - 400 = 378 ft. @ \$ 23.00 per ft. = \$ 8,694.00 \$ 9,805.00

Tractor Time

Aug. 29/81

10 cat hrs. @ \$ 75.00 per hr. = \$ 750.00

Aug. 16-19/81

Logging

28 man hrs. @ \$ 23.00 per hr. = \$ 1,518.00

Testing

16 man hrs. @ \$ 23.00 per hr. = \$ 368.00  
 7 mach. hrs. @ \$ 13.50 per hr. = \$ 94.50 \$ 476.00

Standby

16 man hrs. @ \$ 23.00 per hr. = \$ 368.00

Tractor Time

28 cat hrs. @ \$ 52.00 per hr. = \$ 1,456.00

Coring

500 - 455 = 45 ft. @ \$ 23.00 per ft. = \$ 1,035.00  
 455 - 500 = 45 ft. @ \$ 21.00 per ft. = \$ 945.00  
 500 - 777 = 277 ft. @ \$ 21.75 per ft. = \$ 6,024.75  
 \$ 8,234.75 \$12,052.75





Flights

Air North

#9461 = \$ 328.35

#9793 = \$ 313.93

Nahanni Air

#12311 = \$ 193.80

#12340 = \$ 354.25

Alkan Air

#3721 = \$ 329.23 \$ 1,519.56

Casing Left in Hole #46

2 - 10' NW Casing @ \$126.75 each = \$ 253.50

2 - 2' NW Casing @ \$ 36.75 each = \$ 73.50

1 NW Shoe @ \$298.00 each = \$ 298.00 \$ 625.00

+ 15% = \$ 93.75 \$ 718.75

Total Invoice: \$74,822.06



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 - 1982 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 - 1981 - Resident Geologist, Whitehorse  
Office, Hudson Bay Exploration and Development  
Company Limited.

1981 - - Exploration Manager, Northwest District  
Hudson Bay Exploration and Development Company  
Limited.

DAVID A. DOWNING

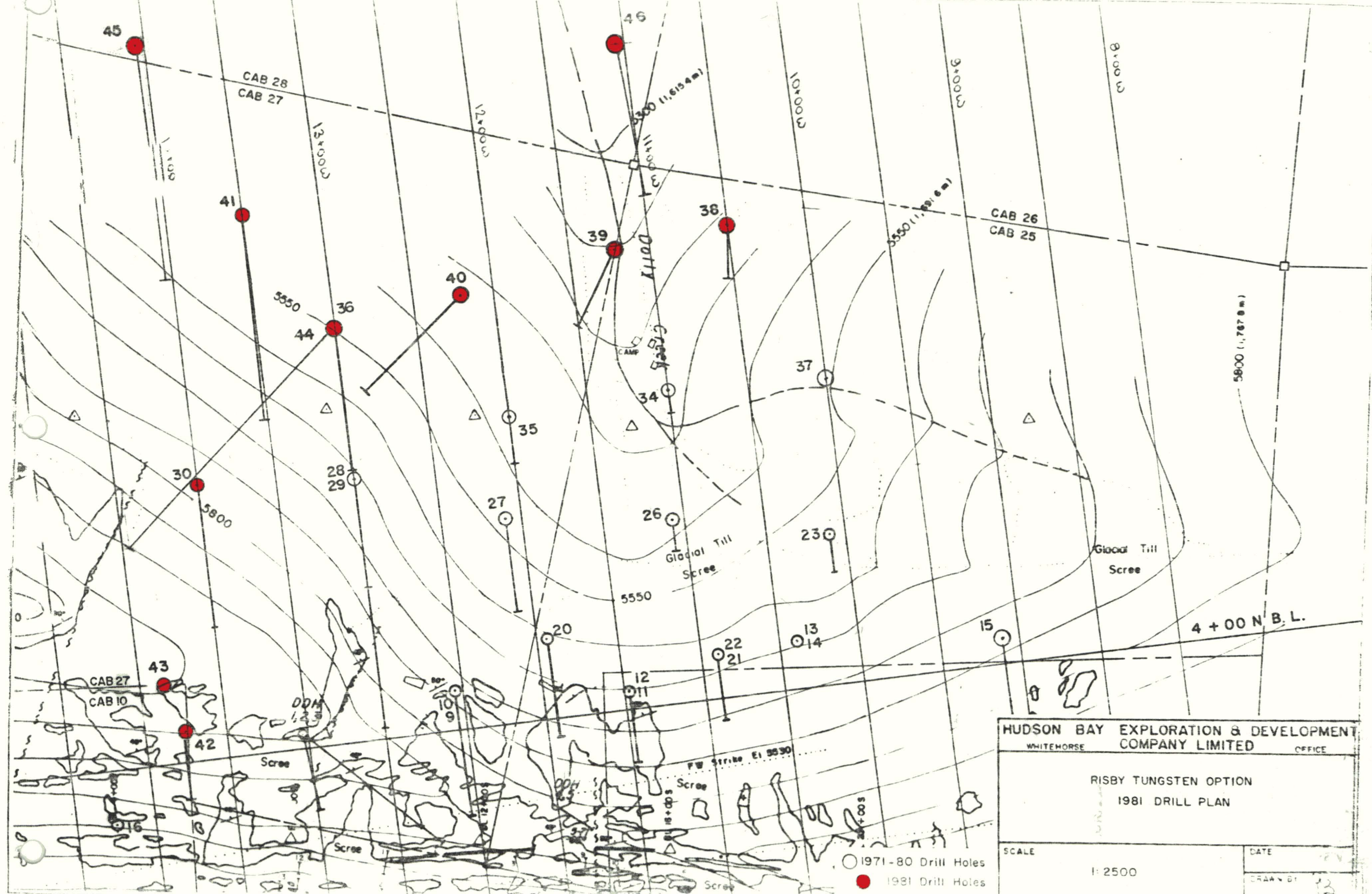
Address: 83 Tamarack Dr.,  
Whitehorse, Y. T.

Education: Geological Engineering - Queen's University  
graduated in 1978.

Employment: 1978 - 1980 - exploration geologist in  
Yukon, Hudson Bay Exploration and Development  
Company Limited

1980 - 1981 - Geological Engineer, CDC Oil and  
Gas Company Limited, Calgary, Alberta.

1981 - - Project Geologist, Whitehorse office  
Hudson Bay Exploration and Development Company  
Limited.



<b>HUDSON BAY EXPLORATION &amp; DEVELOPMENT</b> WHITEMORSE COMPANY LIMITED OFFICE	
RISBY TUNGSTEN OPTION 1981 DRILL PLAN	
SCALE 1:2500	DATE FEB 81
DRAWN BY [Signature]	

- 1971-80 Drill Holes
- 1981 Drill Holes