

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: PATCH 7 (YA74179)

Location: 115 H/12

Mining Division Whitehorse

Dip Tests: 48.5 @ 265'
48.0 @ 378'

Hole Nº. 84-01

Angle: -50°

Direction: 078°

Depth: 378'

Grid Nº.

Co-Ordinates: 8+25E
42+35S
3934'

Date Started: 30 May 1984

Finished: 1 June 1984

Logged By: D. A. Downing

Drilled By: Arctic Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 5
From	To		
0.0	11.0	Overburden	
11.0	12.2	Andesite Dike Fine grained, subhedral dark green mineral (pyroxene?) with interstitial calcite matrix 11.3 - 12.2 - #98127	
12.2	19.9	Biotite Quartz Schist Gneissic biotite banded quartzite. Pyritic with a network of small actinolite filled fractures with rare bleached halo's. The actinolite also occurs as 1/32"-1/16" patches. Core recovery 40% 12.2 - 16.0 - # 98128 16.0 - 19.9 - # 98129	
19.9	26.7	Skarn Coarse garnets in pyroxene, actinolite, epidote matrix. Pyrite and actinolite (?) fill fine fracture network along with calcite. Garnets are fractured and altered with chloritic alteration of the matrix. 19.9 - 20.4 - #98001 20.4 - 20.8 - #98002 - 5/8" quartz carbonate vein cutting $\frac{1}{2}$ QV ₁ -QV ₁ cut by pyrite filled fractures. QV ₂ @55° to c/a, tr galena crystals in pyrite. 20.8 - 23.3 - #98003 - with fine molybdenum along fracture surfaces 23.3 - 26.7 - #98004	
26.7	31.5	Calc-silicate Hornfels Pyritic hornfels cut by stockwork of QV ₁ 26.7 - 29.4 - #98130 29.4 - 32.1 - #98131	
31.5	33.0	Skarn Skarn with QV ₁ stockwork and fracture network filled with pyrite and magnetite. 32.1 - 33.0 - #98005	
33.0	35.0	Calc-silicate hornfels Strongly fractured with actinolite in fractures and alteration halos. Pyrite is also along the fractures and along the schistosity. 33.0 - 35.0 - #98132	

DEPTH		DESCRIPTION OF CORE	Page 2 of 5
From	To		
35.0	44.2	<p>Silicified Biotite Quartz Schist Gneissic quartzite with very fine mica grains. Cut by stockwork of 1/8" QV₁ and fine fracture set filled with magnetite surrounded with 1/16" alteration halos. 35.0 - 38.0 - #98133 38.0 - 41.0 - #98134 39.0 - 44.2 - #98135</p>	
44.2	46.5	<p>Calc-silicate Hornfels Hornfels with pyrite in fractures and pyrrhotite disseminated in hornfels. 44.2 - 46.9 - #98136 46.9 - 47.4 - #98007</p>	
46.5	50.6	<p>Biotite Quartz Schist With pyrrhotite, pyrite and magnetite along fractures. The last 2' is strongly fractured with only 30% core recovery. 47.4 - 50.6 - #98137</p>	
50.6	50.8	<p>QV₂ Brecciated quartz-carbonate vein. Rusty with very fine grained sulphides along sheared surfaces. Trace carbonate along fine fracture in quartz vein stockwork. 50.6 - 50.8 - #98138</p>	
50.8	54.0	<p>Calc-silicate Hornfels Slightly brecciated, strongly altered hornfels with secondary pyrite along QV₁ stockwork.</p>	
54.0	130.2	<p>Biotite Quartz Schist Uniform schist cut by QV₁ stockwork. Strong alteration where fractured and slight alteration around QV₂'s. 50.8 - 53.3 - #98139 53.3 - 55.9 - #98140 55.9 - 58.0 - #98006 - Hangingwall 58.0 - 58.1 - #98008 - QV₂ with pyrite along footwall contact 58.1 - 59.0 - #98009 - Footwall 59.0 - 61.8 - #98141 61.8 - 64.6 - #98142 64.6 - 65.0 - #98010 - Hangingwall 65.0 - 65.7 - #98011 - QV₂ 65.7 - 67.3 - #98012 - Footwall with molybdenum in Fractures 67.3 - 69.5 - #98143 69.5 - 70.0 - #98013 - Hangingwall 70.0 - 70.6 - #98014 - QV₂ with 1/8"-1/4" core of pyrite, molybdenum and sphalerite 70.6 - 71.9 - #98015 - footwall 71.9 - 73.5 - #98144 73.5 - 76.3 - #98145) Fracture parallel to c/a is filled with quartz, 76.3 - 79.0 - #98146) carbonate, chlorite & sulphides is surrounded 79.0 - 82.0 - #98147) by bleached halo. Various brecciated, silicified and cut by QV₁ stockwork. 82.0 - 84.0 - #98148 84.0 - 86.0 - #98149 86.0 - 86.5 - #98016 - Hangingwall 86.5 - 86.7 - #98017 - QV₂ with trace molybdenum 86.7 - 87.4 - #98018 - Footwall 87.4 - 88.4 - #98150 88.4 - 89.9 - #98019 - Hangingwall 89.9 - 90.6 - #98020 - QV₂ with trace molybdenum</p>	

DEPTH		DESCRIPTION OF CORE	Page 3 of 5
From	To		
		90.6 - 92.4 - #98021 - Footwall	
		92.4 - 92.5 - #98083 - QV ₂ with grey mica and euhedral feldspar crystals	
		92.5 - 96.5 - #98151	
		96.5 - 101.5 - #98152	
		101.5 - 102.2 - #98084 - Pyritic, calcareous shear zone with anhedral feldspar patches locally developed in the host	
		102.2 - 103.7 - #98153	
		103.7 - 104.6 - #98022 - Hangingwall with fine grained pyrrhotite disseminated in the host, pyrite in the fractures and with pyrite and pyrrhotite intergrown in small quartz veins.	
		104.6 - 105.0 - #98023 - QV ₂ with leaf pyrite on fracture surfaces	
		105.0 - 105.9 - #98024 - Footwall as described in hangingwall	
		112.3 - 113.0 - skarn band developed adjacent to pyrite fracture fillings.	
		114.2 - 115.4 - #98025 - Hangingwall with disseminated molybdenum	
		115.4 - 116.9 - #98026 - QV ₂ with grey mica and a clear green quartz like mineral surrounded by a calcareous halo	
		116.9 - 117.5 - #98027 - Footwall	
		118.3 - 118.7 - #98028 - Hangingwall with a 1/8" quartz vein containing pyrite and pyrrhotite.	
		118.7 - 119.0 - #98029 - Pyritic QV ₂ with minor molybdenum	
		119.0 - 119.5 - #98030 - Footwall with a stockwork of pyrite filled fractures and pyrrhotite disseminated in the host	
		119.5 - 130.2 - The host rock is altered around a quartz vein stockwork.	
130.2	140.0	Skarn Garnet, pyroxene, pyrrhotite skarn of varying composition	
		131.2 - 131.5 - #98085 - QV ₂ with pyrite and pyrrhotite	
		133.0 - 133.9 - #98031 - QV ₂ with pyrite, pyrrhotite & molybdenum	
		136.2 - 136.6 - Brecciated quartz in a calcareous shear zone	
140.0	145.3	Tan altered Biotite Quartz Schist Pyrite, calcareous quartz breccia in schist altered to a tan colour	
		140.8 - 141.8 - #98086	
		141.8 - 142.1 - #98087 - Pyrite 1/8" QV ₂ with very fine disseminated molybdenum	
		142.1 - 144.8 - #98088	
		144.8 - 145.1 - #98089 - Pyritic QV ₂ with trace disseminated molybdenum	
145.3	154.9	Skarn - Slightly calcareous quartzite with a matrix of magnetite filled fractures and a second very fine stockwork of pyrrhotite filled fractures. The unit appears black with white mottling and very rarely has a schistose texture. There are rare but large 1" patches of green calc-silicate.	
154.9	175.9	Skarn Garnet, pyroxene skarn	
		163.3 - 161.8 - #98032 - pyrite quartz vein	
175.9	180.3	Skarn Magnetic skarn as described 145.3 - 154.9	
		176.1 - 176.2 - #98090 - Very pyritic quartz vein with molybdenum and galena in fractures. There is one 1/16" sphalerite crystal	
		176.9 - 177.2 - #98033 - Slightly brecciated, very pyritic quartz vein	

DEPTH		DESCRIPTION OF CORE	Page 4 of 5
From	To		
180.3	183.5	Leucocratic Granite	
183.5	189.5	Biotite Quartz Schist Schist cut by quartz vein stockwork and a stockwork of fine fractures with 1/8" alteration halos. Minor magnetite along the margins of some of the quartz veins. Marginal to magnetite skarn. 186.2 - 186.5 - #98034 - Hangingwall 186.5 - 187.7 - #98035 - Slightly brecciated, very pyritic quartz vein with abundant molybdenum 187.7 - 188.5 - #98036 - Footwall containing 1/2" quartz vein	
189.5	193.4	Leucocratic Granite	
193.4	194.4	Skarn	
194.4	201.3	Leucocratic Granite	
201.3	205.7	Skarn - Garnet diopside skarn with several 1/8" pyritic quartz veins. 204.1 - 204.5 - #98091 - Quartz/carbonate vein	
205.7	214.0	Calc-silicate hornfels Unit is marginal to biotite quartz schist towards lower contact 212.4 - 212.5 - Quartz vein with pyrite on cross-cutting fractures 212.5 - 214.0 - Extensive quartz vein stockwork	
214.0	224.1	Biotite Quartz Schist - Banded with calc-silicate hornfels	
224.1	224.8	Skarn - cut by stockwork of 1/16" quartz veins	
224.8	227.6	Skarn - very magnetic skarn similar to that at 145.3 - 154.9. It is marginal both to altered biotite quartz schist and to calc-silicate hornfels.	
227.6	228.4	Skarn	
228.4	229.7	Biotite Quartz Schist	
229.7	231.1	Skarn	
231.1	239.6	Calc-silicate hornfels 233.5 - 234.7 - Quartz, pyrite and pyrrhotite in fracture parallel to the c/a 236.0 - 236.7 - Skarn	
239.6	276.5	Biotite Quartz Schist Schist is variously marginal to calc-silicate hornfels and to magnetite skarn. 240.5 - 240.9 - #98037 - QV ₂ 249.5 - 250.6 - #98092 - Slightly pyritic and calcareous quartz vein with a pyritic bleached halo 253.0 - 253.2 - - Bleached and sheared schist 257.8 - 259.1 - #98038 - Sheared QV ₂ with molybdenum on fracture surface 261.2 - 261.8 - #98094 - 1/4" quartz vein with molybdenum on fractures 273.6 - 275.7 - #98095 - Sheared quartz vein with molybdenum on the shear surfaces	
276.5	278.4	Leucocratic Granite	
278.4	285.4	Biotite Quartz Schist Schist is marginal to calc-silicate hornfels with a quartz vein stockwork.	
285.4	291.6	Calc-silicate hornfels	
291.6	296.0	Skarn	

DEPTH		DESCRIPTION OF CORE	Page 5 of 5
From	To		
296.0	378.0	Leucocratic Granite 296.0 - 298.5 - - with intergrowth of long grey/green crystals characteristic of greisen 301.0 - 301.5 - #98096 - Massive pyrite in quartz vein at the intrusive contact 301.5 - 303.3 - - Bull quartz vein with minor molybdenum End of Hole.	
378.0			