

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim. PIT 9 (85836)

Location: Whitehorse Copper Mines

Mining Division Whitehorse

Hole Nº. WE-82

Angle: -50°

Direction: East

Depth: 502.0 ft.

Grid Nº. War Eagle

Co-Ordinates: 108 + 00N

1 + 00W

Date Started: Nov. 5, 1985

Finished: Nov. 9, 1985

Logged By: G. Bidwell

Drilled By: E. Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE	Page 1 of 3
From	To		
0.0	42.0	Overburden	
42.0	48.5	Garnet skarn, minor remnant limestone, occasional tremolite @ 45.0 - 2" quartz diorite dike - calcite filled fractures, vuggy	
48.5	49.0	Quartz diorite dike $85-90^{\circ}$ contact - minor fractures	
49.0	70.0	Garnet diopside skarn, 20% garnet from 49-57 - bleached section - some remnant limestone and dolomite - few bleached quartz diorite fragment - vuggy in section - calcite in fractures	
70.0	76.5	Quartz diorite - 15% hornblende - bleached sections - minor disseminated pyrite associated with chlorite 74.0-75.0 - dike fragments in diorite - minor rusty fractures	
76.5	79.4	Light gray fine grained felsite dike - massive, very fine grained disseminated pyrite	
79.4	82.2	Quartz diorite with abundant felsite dike fragments	
82.2	86.6	Light green skarnified sediments intruded by dikes of quartz diorite and felsite - disseminated pyrite throughout	
86.6	92.0	Quartz diorite, minor bleaching	
92.0	117.0	Silicified sediments, some skarnification minor epidote, minor quartz diorite dikes - relict bedding 30° core angle @ 100.5 - disseminated pyrite up to 5% - calcite fractures 109 - core angle (bedding) 30°	
117.0	125.0	Garnet skarn - light brown garnets up to 60% of volume - calcite fractures	

DEPTH		DESCRIPTION OF CORE	Page 2 of 3
From	To		
125.0	127.5	Quartz diorite with fine grained dike fragments	
127.5	156.0	Garnet tremolite skarn, massive - quartz infilling - 149.5 - 150.0 - quartz diorite dike - 80° core angle contact 153.5 - 154.0 - quartz diorite dike - bleached, diffuse contact	
156.0	160.5	Siliceous metasediments 158.8 - 159.2 - quartz diorite dike 160.2 - 160.5 - quartz diorite dike - quartz and epidote fractures	
160.5	164.5	Garnet tremolite skarn - same as above	
164.5	169.0	Quartz diorite - upper contact core angle - 45° - lower contact core angle - 25° 20% mafics mainly hornblende	
169.0	172.0	Garnet tremolite skarn - massive	
172.0	174.5	Acid dike (called felsite previously) - fine to medium grained - disseminated and small clots of pyrite	
174.5	187.5	Quartz diorite - upper contact core angle - 60° - parts up to 50% mafic (hornblende) - sections bleached - inclusion of epidote skarn and coarse acid dike - calcite veins	
187.5	191.4	Banded epidote garnet diopside skarn - minor diorite dike - banding core angle 45°	
191.4	197.0	Quartz diorite - some bleaching and chlorite alteration - lower contact core angle 60°	
197.0	200.8	Siliceous skarnified sediments - light gray to tan colour - some acid dike (coarse grained)	
200.8	255.2	Quartz diorite - some cross-cutting coarse acidic dikes - chlorite alteration intense in sections 222.0 - 222.8 - mafic dike parallels core axis 224.0 - 224.2 - mafic dike - core angle 70° 229.0 - 229.6 - mafic dike - core angle 60° black fine grained (basaltic) - pervasive chlorite, epidote, bleached fractures infilled with calcite 242.0 - 246.0 - extensive calcite veining (stockwork) - vuggy - some garnet clots 247.0 - 251.0 - same as 242-246 - poor core recovery (60%) - calcite veining	
255.2	266.3	Andesite dike - minor quartz diorite dike cross-cutting - quartz and calcite filled fractures, propylitic alteration - pyrite associated with quartz diorite	

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DEPTH		DESCRIPTION OF CORE	Page 3 of 3
From	To		
266.3	269.2	Quartz diorite	
269.2	285.0	Garnet epidote skarn, some sections limestone, parts vuggy	
285.0	289.0	Quartz diorite with andesite dike inclusions	
289.0	290.0	Garnet epidote skarn	
290.0	294.2	Quartz diorite, propylitic alteration	
294.2	295.5	Skarnified sediments, quartz, epidote and calcite fractures	
295.5	299.0	Quartz diorite, propylitic alteration - vuggy, quartz epidote crystals	
299.0	303.5	Skarnified sediments as above and garnet epidote skarn 300.5 - 301.3 quartz diorite dike	
303.5	317.5	Quartz diorite - relatively fresh, unaltered - a few narrow (1") acid dikes - minor epidote	
317.5	329.4	Quartz garnet epidote skarn, minor limestone - minor diorite dikes - numerous vugs - late open space filling with quartz and calcite	
329.4	350.0	Quartz diorite - relatively unaltered, inclusions of basic dikes	
350.0	351.5	Banded skarnified sediments (mainly diopside) - minor pyrite, some vugs - bedding core angle 60°	
351.5	398.0	Quartz diorite - shallow core angle with above unit - unaltered, increasing mafics (up to 30%) 359.1 - 359.7 - diopside skarn? - light green, massive, fine grained - multi phase intrusive 387.9 - 389.1 - garnet epidote skarn, vuggy	
398.0	401.8	Massive limestone, vuggy, some skarnification grey - grades to garnet skarn at bottom of intersection	
401.8	405.0	Quartz diorite, minor skarn	
405.0	411.0	Garnet skarn, vuggy, calcite infilling	
411.0	422.7	Quartz diorite, minor chlorite and garnet skarn	
422.7	428.0	Garnet diopside skarn, very vuggy, minor quartz diorite and andesite dikes, trace sulphides (pyrite)	
428.0	502.0	Quartz diorite, chloritic alteration 431.5 - 432.5 - banded garnet epidote skarn 436.0 - 457.7 - 50% of core is dark grey fine grained andesite dike dike is brecciated throughout length sharp cold contacts andesite some disseminated pyrite 457.7 - 461.5 - bleached quartz diorite with minor quartz veining and disseminated pyrite 463.0 - 463.6 - epidote skarn 463.6 - 502.0 - fresh quartz diorite, minor bleaching along fractures (propylitic) and minor quartz veining	
	502.0	End of hole	

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