

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim Shale 42

Location Pelly Banks Option

Mining Division Watson Lake

Hole Nº PB-81-1

Angle -60°

Direction: South

Depth 113.7m

Grid Nº

Co-Ordinates: 1+10N

LIN 2+00'W

Date Started: March 14, 1981

Finished: March 18, 1981

Logged By: D. Crowe

Drilled By: Caron Diamond Drilling

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	5.5	OVERBURDEN: sand, clay and gravel.
5.5	26.5	GRAPHITE PHYLLITE: very black, massive, highly fissile. Occasional siliceous bands or laminal and occasional milky quartz stringers. Pyrite occurs in fine (1-2mm) bands or disseminated rarely as fine grained blebs. Some sections are slightly calcareous. Pebble gouge (faults) at 19m and 20.5m. CA = 55° @ 11.8m.
26.5	30.0	SILICEOUS BANDED GRAPHITIC PHYLLITE: Grey and black banded. Alternating bands or laminations of quartz rich and graphite rich phyllite. Fine banded or disseminated pyrite. CA = 85° @ 28.8m.
30.0	54.5	GRAPHITE PHYLLITE: Very black, massive, highly fissile. Sections with finely laminated quartz. Pyrite occurs in fine bands, disseminations or small fine grained clots.
54.5	57.6	SILICEOUS BANDED GRAPHITIC PHYLLITE: Siliceous fine grained white quartz bands of 1 to 3mm alternating with black graphite bands give core stripped appearance. Pyrite occurs disseminated, in fine bands and a clots of fine grained cubes. Sections show excellent structural disruption at 57m - compositional layering sub parallel to core - small scale folding visible with axial plane. CA = 60°.
57.6	59.5	QUARTZ - CHLORITE - GRAPHITE - SERICITE PHYLLITE: (coarse banded tuft). Light green and tan brown in colour siliceous bands (1.5 - 1cm) with argillaceous bands scattered pyrite cubes compositional layering CA = 30° with axial plane foliation

DEPTH		DESCRIPTION OF CORE
From	To	
57.6	59.5	(con't) CA = 55°.
59.5	69.7	<p>SILEOUS GRAPHITE PHYLLITE AND QUARTZ - CHLORITE - GRAPHITE - SERICITE PHYLLITE: Alternating section distinguished by relative chlorite and graphite content. Section widths vary from .1 - 1.2m. CA = 73° @ 62.5m = 75° @ 64.7</p> <p>Evidence of two folding events @ 68.5m. Sub parallel to core and @ 72° for axial plane foliations.</p> <p>Faulting at 67.1m.</p>
69.7	113.7	<p>QUARTZ- CHLORITE- SERICITE PHYLLITE: Fine grained, light to dark green with sections including tan brown laminations. Sections of tan coloured sericite alteration.</p> <p>@ 70.3 - 73.5, 74.3 - 74.6. 77.6 - 84.4, 90.8 - 91.0, 92.5 - 93.1. 93.1 - 94.1. 94.8 - 5.7. 111.4 - 112.</p> <p>These sections represent strong to moderate alteration.</p> <p>CA = 70° @ 72.5, 75° @ 78.3, 85° @ 81.0, sub-parallel @ 83.0, 80° @ 104.3, 73° @ 110, 83° @ 113.</p> <p>Fine grained sulphide trains, bands and laminations, primarily pyrite occur @: 72.3, 73.0, 82.1, 83, 87.6, 92.9, 93.9, 89.1, - 95.6, 104.7, 109.8, 103.9.</p> <p>White quartz stringers and veinlets occur @: 70.0 - 70.3, 71.0 - 71.2, 74.7 83.5 - 84.4, 88.1, 83.3 - 83.6, 97.2, 101.9 - 102.1, 112 - 112.3. Quartz stringers have CA = 65° - 90°.</p> <p>Faulting observed @ :</p> <p>80.2 - CA 42°</p> <p>96.2 - CA 17°</p> <p>98.8 - CA 51°</p> <p>102.4 - CA 52°</p>
	113.7	END OF HOLE.