FORM Nº. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: HATCH 13 (Y67656) Location: 115 H/12

Mining Division Whitehorse

Dip Test @ 245'=45° (corrected

Hole Nº. 84 - 05 Angle: -50° Direction: 057°

Depth: 319' Grid Nº. Co-Ordinates: 72+20E 35+55S

Date Started: June 10, 1984 Finished: June 13, 1984 Logged By: G. Bidwell

Drilled By: Arctic Diamond Drilling

DEPTH From	DEPTH To	DESCRIPTION OF CORE Page 1 of 3
0.0	62.0	Overburden
62.0	68.0	Biotite sericite schist core angle = 25° - quartz stockwork semi-parallel schistosity
68.0	70.0	Calc - silicate hornfels - stockwork present - dark green (diopside) biotite - rusty oxidation particularly on fracture (former pyrite)
70.0	72.0	Biotite Sericite schist - stockwork present up to 3/4" quartz veins - core angle = 30°
72.0	80.0	Skarn - large garnet masses (up to 2" diameter) - chlorite + pyrite in fractures, also magnetite (total magnetite 10%) - garnet (epidote) magnetite skarn - no stockwork
80.0	91.0	Quartz biotite hornsfels - generally massive, calcareous - minor QV_1 stockwork - minor foliation @ 88' core angle = 30° - pyrite in fractures - some concentration of magnetite
91.0	94.5	Skarn - brecciated - garnet diopside ? - pyrite in veinlets - minor QV_1 vein
94.5	99.0	Gossanous skarn ? - almost completely oxidized - quartz vein @ 95.6' ½" wide QV_1 - shearing @ 96' - 98' remanent epidote skarn, pyrite in fractures - 94.5-96.5 - # 98158
99.0	106.0	Skarn - with minor biotite hornfels, magnetite-rich - vein and disseminated pyrite - large clots of garnets

DEPTH From	DEPTH To	DESCRIPTION OF CORE
106.0	109.5	Gossanous skarn - same as above - some magnetite (in clots) - portions brecciated
109.5	113.0	Biotite hornfels - QV_1 stockwork present - tan alteration with minor rusty shears
113.0	113.8	Quartz vein (QV_1) - minor fracturing, no sulphides 113.0 - 113.8 - #98159
113.8	117.0	Gossan - poor core recovery - very magnetic in sections - minor disseminated pyrite - probably shear area 113.8 - 117.0 - #98160
117.0	117.3	Quartz vein (QV_1) - fractured no sulphides 117.0 - 117.3 - #98161
117.3	127.0	Magnetite skarn (with some skarn section) 118.0 - 119.0 - garnet skarn - abundant magnetite, pyrite veinlets - QV_1 stockwork present - 124.0 - 125.0 garnet skar
127.0	145.5	Altered biotite schist ? tan coloured - QV_1 stockwork - 128.0 - 128.4 - #98162 - vein with quartz and pyrite - 131.5 - 135.0 - #98163 - QV_1 stockwork (trace moly?) - 143.0 - 145.5 - #98164 - intense tan alteration - 144.9 - 145.0 - quartz vein
145.5	167.5	Biotite quartz schist - generally massive - QV_1 stockwork - 150' core 5^{o} - @ 157' minor tan alteration around fractures, slightly brecciated - @ 158' 1"wide quartz vein centered by dark metallic sulphide (moly?), chloritic alteration? 162 - 163 - 1½" wide QV_1 vein
167.5	173.5	Magnetite Skarn (diopside?) - some QV_1 veining (narrow) with pyrite centers 170 - 171 - garnet with chlorite borders
173.5	174.5	Shear zone - biotite chlorite schist sub-parallel core axis
174.5	177.5	Calc - silicate hornfels (brecciated) - minor magnetite - diopside, biotite rich section - QV_1 stockwork
177.5	187.3	Altered Calc-silicate hornfels? 177.5 - 179.1 - bleached with QV_1 stockworm, pyrite in fractures 179.1 - 180.3 - tan alteration, manganese dendrites, calcareous 180.3 - 182.7 - calc silicate hornfels, quartz veinlets with pyrite 182.7 - 186.5 - tan alteration, calcareous 186.5 - 187.3 - shear gouge and tan altered hornfels

DEPTH From	DEPTH To	DESCRIPTION OF CORE
187.3	191.5	Biotite quartz schist - minor QV_1 and pyrite in fractures
191.5	199.6	Garnet Skarn - 65% garnet - minor eidote, magnetite - quartz, pyrite, magnetite in fractures - portions heavily oxidized, highly fractured
199.6	199.9	Quartz veins - probably QV_1 - tight fractures - 199.6-199.9 - pyrite (fine), vuggy - 199.6 - 199.9 - #98165 - QV_2?
199.9	257.0	Garnet Epidote magnetite skarn - highly fractured - oxidized, pyritic 207.1 - 208.0 - #98166 - quartz pyrite vein QV_2 - trace moly?, galena? - vugs 218.2 - 219.2 - #98167 - QV_2 vein, vuggy - spots moly galena? - vugs parallel to core axis - pyrite along fractures and clogs at cross fractures @227.0 - ½"wide quartz vein parallel core axis QV_1? - 227.5 - pulled rods - crap from top of hole picked up on next run - 232.0 - 1"wide shear? infilled with quartz, pyrite, calcite - quite vuggy
257.0	271.5	Biotite Quartz schist - QV_1 stockwork - minor pyrite - very fresh looking compared to heavily oxidized skarn unit - 269.5 - 270.5 - Bull quartz vein QV_1 #98168 - 265' core angle = 45° - 268' ½" wide QV_1 -271.0 - 271.5 2" wide QV_1
271.5	298.0	Magnetite Skarn (fresh) - diopside, minor garnet, biotitic sections - QV_1 stockwork - pyrite veinlets - 285.4 ¼" pyrite veinlet - 286.7 ½" wide pyrite, pyrrhotite vein - 288.6 - 1" wide QV_1 vein
298.0	319.0	Garnet Skarn (oxidized) - rusty gossanous - epidote, pyrite - 319' in a very broken section (probably shear)
	319.0	END OF HOLE