FORM Nº. 630

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 From	DEPTH To	DESCRIPTION OF CORE
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 sliken 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	
From	To		
55.8	127.1	Biotite Schist - with conformable quartz veins, calcite infilling of vertical fractures - minor grey beds with trace pyrite near contact 55.8 - 56.5 - with minor diopside skarn laminae - minor chlorite, actinolite associated with quartz veining - minor pyrrhotite, pyrite associated with quartz veining - small specks of a possible feldspar scattered throughou the schist, also minor grey beds throughout schist 58.3 - 58.7 - rotted, broken with calcite mud 59.9 - 60.5 - minor zone of schist and skarn with a small breccia zone and some calcareous bedding 66.8 - 67.8 - broken zone, fragmented some fractures show slicken sides 84.4 - broken fragmented bedding zone with minor muddy rotting zones show calcite infilling - some slicken sides present along fractures - muddy zone 93.4-93.6, 95.2-95.3, 104.9-105.1 - core fragmented and broken 113.1 - 127.1 Core Angles: @ 56.6 - 12°, @ 59.7 - 8°, @ 62.6 - 13°, @ 64.9 - 6°, @ 67.9 - 23°, @ 69.2 - 23°, @ 73.2 - 21°, @ 76.3 - 24°, @ 78.3 - 26° @ 81.6 - 22°, @ 84.6 - 20°, @ 87.7 - 15°, @ 91.4 - 12°, @ 95.0 - 21°, @ 98.3 - 15°, @100.5 - 12°, @104.5 - 16°, @107.4 - 18° @108.9 - 21°, @111.6 - 33°, @114.9 - 20°, @116.0 - 21°, @123.5 - 16°
127.1	132.0	Rotted muddy zone - semiconsolidated chlorite mud with abundant calcite infilling	
132.0	172.5	Intercalated biotite schist and diopside skarn - with conformable quartz veins, calcite infilling of vertical fractures - minor pyrite, pyrrhotite associated with quartz veins also some actinolite and chlorite infilling of fractures around quartz vein - trace scheelite in schist and skarn - actinolite - sometimes conformable beds 157.8 - 158.8 - diopside skarn rich zone with minor schist Core Angles: @ 133.5 - 18°, @ 136.2 - 26°, @ 138.6 - 27°, @ 140.4 - 31°, @ 144.0 - 27°, @ 147.5 - 26°, @ 150.4 - 12° @ 152.9 - 26°, @ 155.8 - 23°, @ 157.6 - 21°, @ 163.4 - 27°, @ 166.1 - 23°, @ 169.2 - 18°, @ 172.3 - 32° @ 174.5 - 36°	
172.5	176.7	Diopside skarn - with minor schist, chlorite and calcite infilling of vertical fractures, trace pyrrhotite, pyrite, scheelite	
176.6	192.0	Intercalated biotite schist and diopside skarn - with vertical fractures infilled with calcite, minor chlorite actinolite - conformable quartz veins - trace scheelite, pyrite, pyrrhotite - minor limestone from 176.9 - 177.0 - minor grey beds throughout	

DEPTH From	DEPTH To	DESCRIPTION OF CORE
		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
From	To	
		- 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°
229.8	236.8	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%