

Latitude 6500N
 Departure 4750E
 Elevation 404.5m
 Dip at Collar . . -52°
 Bearing 100°
 Total Depth . . . 440.5m Core Size 80
 Remarks Casing left in the hole

Noranda Exploration Company, Limited
 DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
292.9	-50°	133°	108°
432.9	-49°	141°	116°

Project No. . . . 4730 Sheet No. . . 1 of 3
 Property Lake Bond Hole No. . . LB-93-3
 NTS 12H/1 Grid Name . . Lake Bond
 Date Started . . Jan 3/93 Completed . . Feb. 7/93
 Contractor . . . Longyear Canada Inc.
 Logged By Chris Collins

Depth & Lithology	Description	Alteration	Mineralization	Remarks
0-1.8 Casing	Overburden			
1.8-27.7 Mafic flows	Dark greenish grey color, fine to locally medium grained with a massive to locally vesicular texture. Local mafic dyke at 15.0-17.3 with sharp contacts at 30°. Lower contact is not sharp or lithological but marked at onset of pervasive hematization	Weak pervasive, chl alt		
27.7-119.3 Mafic flows "Red basalt"	Overall the unit is a deep red to maroon color, with a very fine grained massive to locally vesicular texture. Note local zone of strong shearing with associated carbonate veining i.e 35.4-40.8m See a massive mafic dyke from 37.3-40.8m with contacts at 45° to C.A. See 20-30% sub cm sized - 1 cm sized jasper bands at 45-55° to C.A. See the units becomes more massive at 65.4-102.4, and again with a moderate pervasive fabric at 50-70° to C.A. at 104-119.3, the lower contact to this unit is not sharp or lithological but marks the end of pervasive hematization.	Strong pervasive hematization throughout the entire interval. Local zones of silicification and carbonatization related to veining.		
119.3-188.3 Mafic flows	Overall a pale grey green to dark green color, generally fine grained and massive to locally vesicular textured. See massive textured mafic dikes with sharp chilled contacts at 124.4-132.2, 155.3-166.0, see an intercalated jasper chert at 179.5-180.5 with bedding at 50-60° to C.A.	Local moderate pervasive chlorite alt. local strong epidote silicification associated with fracture veining, carbonate veining is noted throughout.		
188.3-190.6 Jasper with argillite	Dark red color, well developed parallel laminated texture with alternating laminae of jasper and red argillite at 70° to C.A.			
190.6-201.7 Mafic flows	As above, grey green color, well developed vesicular texture	Moderate pervasive chl alt.		
201.7-203.8 Mixed chemical clastic seds.	Deep red color, with aphanitic jasper and red argillite, see local parallel laminations at 65-75° to C.A. generally very massive			

Depth & Lithology	Description	Alteration	Mineralization	Remarks
203.8-216.4 Mafic flows with intercalated chert/jasper	As above, grey green color, fine grained with well preserved vesicular texture. see several chert/jasper/argillite intercalation at 205.2-206.1, 207.7-208.9, 209.6-210.6, 211.6, 211.8 locally well developed parallel laminations in these at 60-70° to C.A.	The mafics are weakly pervasively chloritized and see minor silica/epidote carbonate veining		
216.4-233.3 Mixed chemical clastic sediments	As from 201.7-203.8, deep red or maroon color very fine grained and massive to locally parallel laminated at 40° to C.A. comprised predominantly of red argillite with lesser chert/jasper.			
233.3-238.6 Mafic dyke	Dark grey, fine to medium crystalline, with a massive granular texture. See a coarser core at 235-237.			
238.6-239.4 Fault zone	See 50% grey mafic lithic fragments in a sheared argillaceous matrix, abundant fault gouge, well developed fabric at 50-70° to C.A.			
239.4-321.0 Mafic flows	Overall a dark grey-green color, fine grained with a mottled to locally massive texture. At 248.0-270.6 see a very speckled texture associated with 10-15% 1-5mm sized greenish black chlorite spots. See a dark grey fine grained massive textured mafic dyke at 270.2-277.5 See local vesicular zones with 3-5% calcite amygdalae between 277.5-321.0	Weak to moderate pervasive carbonate alt. mod. chl-alt between 248-270.6 At 312.5 down see moderate pervasive chlorite alt. and note weak stockwork textured chlorite alt.	Trace-1% py at 312.5-321.0	
321.0-329.7 Mafic flow breccia	Pale grey green color with a well developed fragmental or breccia texture with 65-75%, 4-5cm sized and greater variably silicified mafic clasts in a dark grey to black granular chloritic matrix	Moderate to strong chlorite in bx matrix local silicification of mafic clasts, local epidote/silica carbonate veining		
329.7-334.6 Mafic dyke	Dark grey, fine to medium grained with a massive texture, see local feldspar porphyritic intervals			
334.6-341.9 Mafic flow	Pale, grey to grey green color, texturally it varies gradationally from massive to locally breccia textured or fragmental. The lower "contact" to this unit is not lithological but marks the onset of strong stockwork textured chlorite with associ. mineralization	Weak to moderate stockwork textured chlorite alt. local moderate silicification occasionally assoc. with epidote veining.	Tr-1% py with tr sph	

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Project No. 4730 Sheet No. . 3 of 3
Property Luke Bond
Hole No. . . LB-93-3

Depth & Lithology	Description	Alteration	Mineralization	Remarks
341.9-383.4 Stockwork, altered & mineralized mafic flows	Dark green to black color, well developed breccia texture with 65-75% pervasively chloritized mafic fragments in an anastomosing vein matrix of black chlorite. see fine to medium grained buckshot textured pyrite disseminations and stringers within chlorite matrix. See a feldspar porphyritic mafic dyke at 360-365.5 with sharp chilled margins at 60° to C.A. See the chloritization become more pervasive and intense between 365.6-367.6 From 367.6-383.4 the chlorite alt. weakens with more primary texture preserved and sulphide content decreases	Strong stockwork net vein textured chlorite alt. Wk chl at 367.6-383.4	5-7% total sulphide, py, with tr-1% sph as disseminations and stringers within the chlorite At 367.6-383.4 see tr-1% py with tr sph.	
383.4-388.0 Felsic dyke	Dark grey to pinkish grey color, well developed porphyritic texture with 7-10% 3-7mm euhedral feldspar laths in a grey aphanitic siliceous groundmass. Sharp contact at 45-55°			
388.0-404.1 Mafic flow	Dark green to black color, fine to medium grained with a massive to granular texture, no primary textures preserved as everything is completely obliterated by pervasive intense black chl alt.	Intense chloritization, local carbonate and silica veins	Tr-1% py associated with local silica/carbonate veins.	
404.1-440.5 Gabbro	Dark grey fine to medium crystalline with a massive granular homogeneous texture. See a xenolith of mafic flow at 413.0-416.3			
440.5	END OF HOLE			