N1

NEWMONT EXPLORATION OF CANADA LIMITED

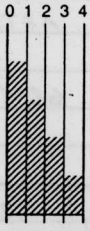
DRILL LOG

PROJECT: MINDY	GROUND ELEV.: 1662 m ASL
HOLE NO.: 81-4	BEARING: 315° AZ
LOCATION: L 5N x 160 W	DIP: -50°
	TOTAL LENGTH: 157.0 m (515')
LOGGED BY: J. NEBOCAT	HORIZONTAL PROJECT: 100 m
DATE: Aug. 10, 1981	VERTICAL PROJECT: 122 m
CONTRACTOR: BBS DIAMOND DRILLING	
CORE SIZE: BQ	
DATE STARTED: Aug 10, 1981 PM	
DATE COMPLETED: Aug 12, 1981 AM	
DIP TESTS: 257' @ -48° 497' @ -48°	

ALTERATION SCALE

absent
slight
moderate
intense

TOTAL SULPHIDE SCALE



traces only
< 1%
1% – 3%
3% – 10%
> 10%

COMMENTS

LEGEND

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

PAGE 1 OF 4 | PROJECT: MINDY | HOLE NO. 81-4

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Bio)	ALTERATION B (FL)	ALTERATION C (TREACT.)	ALTERATION D (Si)	ALTERATION E (GAR.)	FRACTURE INTENSITY	% VEIN QTZ.
				OVERBURDEN (0-6.0')							
				BIOTITE HORNFELS (6.0-69.3)							
	15			PURPLE, V.FG. BADLY BRKN. BLEACHED ZONE 7.2 - 7.6							
5.0				7.6-9.8- §§ ZONE, RUSTY, FRIABLE, LIMONITE GOUGE @ 8.0 & 9.0	2	0	1	1	0		
	75			-9.8. BIO HFLS W/ CHERT? CLSTS. WHITE SILIC.	0	0	0	2	0		
	70			- PALE GREY TO WHITE SILIC STRS W/ PY.							
10.0	93			MAY BE REMOB'D QTZ, DON'T LOOK LIKE VEINS.	3	0	1	2	0		
	100			QTZ-FELDSPAR CRNS 14.1-15.6 BLEACHED ALONG FRACT'S W/ PO -16.8: POSS RELICT BED'G @ 050°	3	0	1	2	0		
15.0	100			-19.1-20.6, SEV' SMALL BLEACHED & SIL'D ZONES	3	0	0	2	0		
	100			-20.6-22.8: VFG BD HFLS, GRIT & INCR SI AFTER 22.8	2	0	0	3	0		
20.0	100			-QTZ/FELD GRIT HFLS 22.8-26.1	3	1	1	2	0		
					3	0	1	2	0		
25.0	100			29.7-29.9, 32.0-32.2, 32.3-33.0 BLEACHED ZONES ALONG FRACTS -29.8- POSS ALB FELD W/ QTZ VEIN.	3	1	1	2	0		
	100										
30.0	100			-33.1: INCR IN FELD LATH ~~&~~, INTR OF CHERT AND/OR SILI'D HFLS CLASTS AGAIN. PO ALONG STRS.	2	1	0	3	0		
	100			-INCR IN QTZ STRS, MINOR PALE BLEACHING LOCALLY ↓	2	0	0	3	0		
35.0	100				2	1?	1	3	0		
	100			DISTORTED QTZ STR'S SUGGESTS A PRE-HORNFELSING EVENT, SOME POSSIBLY LATER.	2	0	0	3	0		
40.0	100			ALTERNATING BANDS OF VFG BIO & SIL'D ZONES.	2	0	0	2	0		
	100										
45.0											

PAGE 2 OF 4 | PROJECT: MINDY | HOLE NO. 81-4

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION BIO A	ALTERATION FL B	ALTERATION TREACT C	ALTERATION SI D	ALTERATION GAR E	FRACTURE INTENSITY	% VEIN QTZ.
	100			VFG BIO HFLS, ALT'G BANDS OF SILIC'S MAT, SOME LATER QTZ STR'GS SHOW DISPLACEMENT.	3	0	0	2	0		
	100			-50.8, BLEACHED ZONE	3	0	0	2	0		
50.0	100			QTZ-FELD? ALT'N MORE ABUNDANT. X-CUTTING FRACT'S HAVE ALT'N ON ALL SIDES. INCR IN TREM, CHL & FL?	3	1	1	3	0		
55.0	100			55.1 FAULT GOUGE							
	100			SAME AS PREVIOUS, LOCALIZED BLEACHED ZONES.	3	0	1	3	0		
	100				3	0	1	2	0		
60.0	100			CALCITE STRINGERS START, W/ QTZ @ 62.4	2	0	1	3	0		
65.0	100			SAME BIO/QTZ HFLS AS PREVIOUS							
	100										
				SKARN (69.3 - 70.8) HFLS/SKN	0	3	4	1	3		
70.0	100			CTCT @ 60°. 69.3 - 69.9: TREM/PO SKN	0	3	4	1	4		
				FL/CAL/SER. 69.9 - 70.8, MASS MAG W/	0	0					
	100			DIOP/EP?/GAR. LST @ 70.6.	0	0					
				LIMESTONE/MARBLE (70.8 - 114.8)							
75.0				-CREAMY-WHITE TO GREY, RECRYSTALL'D,							
	100			HOMOGENOUS T-OUT.	0	0					
	100				0	0					
80.0	100				0	0					
	100				0	0					
85.0	100										
	100										
90.0											

PAGE 3 OF 4 | PROJECT: MINDY | HOLE NO. 81-4

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION BIO A	ALTERATION FL B	ALTERATION ACT TRE C	ALTERATION SI D	ALTERATION GAR E	FRACTURE INTENSITY	% VEIN QTZ.
	100			LIMESTONE/MARBLE, CONT'D - SAME AS BEFORE	0	0	0	0	0		
				- 94.3 ; QTZ STR'S LOCALLY	0	0	0	2	0		
95.0	100				0	0	0	2	0		
	100										
100.0	100			100.7 - 101.9 - ZONES w/ FIBROUS WHITE TREM? (NON-CALC) QTZ VEINS DISSAPPEAR	0	0	2	1	0		
	100			CREAMY-WHITE TO GREY, HOMOGENOUS T-OUT	0	0	0	0	0		
105.0	100				0	0	0	0	0		
110.0	100				0	0	0	0	0		
	100			113.3 - 113.7, FIBROUS WHITE TREMOLITE + EMERALD GREEN GARNET IN NARROW ZONE WITHIN MARBLE.	0	1?	3	0	2		
115.0	100			TREMOLITE - GARNET SKARN (114.8 - 118.9) FIBROUS, SILKY WHITE, W/ GREEN GARNET OCCURRING LOCALLY IN SPLOTCHES	0	1	4	1	2		
	100			LIMESTONE/MARBLE (118.9 - 148.1)	0	0	0	0	0		
120.0	100			SAME AS PREVIOUS - QTZ VEIN @ 122.4	0	0	0	1	0		
	100			- TREM/GAR/QTZ SKARN 124.2 - 124.9	0	0	0	0	0		
	100			MARBLE							
125.0	100				0	1	2	1	2		
	100			128.3 - 128.6 - IDOCRASE + ANDRADITE? WITH MARBLE	0	0?	1	1	2		
130.0	100			131.6 - 137.5 ZONES OF TREM/GAR/FL/ QTZ ALT'N WITHIN MARBLE.	0	1	2	2	1		
	100			PALE GREEN FL LOCALLY.	0	2	2	1	2		
135.0											

PAGE 4 OF 4 | PROJECT: MINDY | HOLE NO. 81-4

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Bio)	ALTERATION B (Fl)	ALTERATION C (ACT TREM)	ALTERATION D (Si)	ALTERATION E (GAR)	FRACTURE INTENSITY	% VEIN QTZ.
	100			LIMESTONE/MARBLE (CONT'D)							
	100			CREAMY WHITE TO GREY, HOMOGENOUS MARBLE, XTALLINE	0	1	2	1	1		
140.0	100				0	0	0	0	0		
	100				0	0	0	0	0		
145.0	100			MASSIVE SULPHIDE SKARN (148.1-150.4)	0	0	0	0	0		
	100			SULPHIDE CTCT W/ MARBLE @ 40°	0	1	2	1	1		
				PRED THIN-BANDED MAG, PO, RARATE? W/ DISS	0	1	3	1	1		
150.0	100			CPY + ARSENO. GREEN MAFIC GANGUE INCR DOWNHOLE, POSS DIOP + ACT.							
	100			BIOTITE HORNFELS (150.4 - 157.0)	2	0	1	2	0		
155.0	100			CTCT W/ SKARN @ ≈ 50°							
				SIMILAR TO TOP OF HOLE. QTZ/							
	100			CHERT - RICH ZONES 150.4 - 151.2,	2	0	0	2	0		
				155.1 - 156.5 - RUSTY BIOTITE, POSS W/							
				HEM 151.8 - 152.8							
		EOH		BRKN AT EOH.							
160.0				EOH							