N1

NEWMONT EXPLORATION OF CANADA LIMITED

DRILL LOG

PROJECT: MINDY	GROUND ELEV.: 1662 m
HOLE NO.: 81-5 A & B	BEARING: 270° AZ
LOCATION: L 5N × 160 W	DIP: − 60°
	TOTAL LENGTH: 118.0 m (387')
LOGGED BY: Douglas Oneschuk	HORIZONTAL PROJECT: 61 m
DATE: Aug 13, 1981	VERTICAL PROJECT: 101.5
CONTRACTOR: BBS Diamond Drilling	ALTERATION SCALE
CORE SIZE: BQ	
DATE STARTED: Aug 13, 1981	
DATE COMPLETED: Aug 17, 1981	TOTAL SULPHIDE SCALE
DIP TESTS: 257 ft ; 57° 387 ft : 61.5	
COMMENTS	LEGEND

absent
slight
moderate
intense

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

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

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION Bio A	Fl B	Trem. act. C	Si D	Gar. E	FRACTURE INTENSITY	% VEIN QTZ.
				4.8 m of Casing							
-5	100			Bio Hrnfls - Extreemly broken up until fractures & joints limonite rich, faulted areas also carbonate-rich Faults described by rt Powder & ferric & ferrous oxides. Bleached zone (10.2 → 11.4) Jointing @ 20° & 60°	1	0	0	3	0		
	85		Fe @ 60°								
-10	100				0	0	0	3	0		
	80		Fe @ 60°	Fault @ 11.4 → 13.4. Slickensides, massive fg. Po, breccia frags. (14.3-) all joints & faults contain calcite & may show slickensides, core becomes much less broken, fol poor to none. (fg. grit?)							
-15	100		Fl @ 60°		1	0	0	3	0		
	100			Joints mainly @ 30°, no limonite or calcite							
-20	100			(23.9 → 25.0) Bleached zone							
				Lost hole @ 108 m. New hole (81-5B) 2 m W of 81-5A. Logging up to 25 m is in 81-5A Past that, 81-5B	0	0	0	3	0		
-25	100			Area of Bio Hrnfls (20%) / Bleached zone (80%) @ 31.9 → 36.75. fol & contacts @ 60°, fol poor to mod. Bleached zones contain mg silicate grains fo	1	0	0	3			
-30	100			(29.5 → 40) fol Becomeing more pronounced, (mod)	0	0	0	3			
-35	100										
	100			36.75 → Numerous small (1-2 cm) bleached zones throughout, containing more Po than Bio Hrn. (fg blebular). poor to mill fol. fg to mg texture reflecting orriginal rock (grit). Bleached zones may show minor chlorite	1			3			
-40	100										
-45	100										

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION Bio A	Fl B	Trem act C	Si D	Gar E	FRACTURE INTENSITY	% VEIN QTZ.
	100		F2	45m → fol become more distinct. @ 60°. Jointing @ 20° minor calcite. fol may be convoluted in some areas. Bleached zones less numerous after 48.7m, & may contain chlorite. Joints contain no calcite	2	0	0	3	0		
50	100				2	0	0	3	0		
55	100			55→60. Area of Bio Hrn & Bleached zones	1	0	0	3	0		
60	100			60→66.2 fol excelent @ 60°. Silicate lenzes abundant.	1	0	0	3	0		
	100			64.9→66.2. cg to mg, drk gy to black diopside(?) grains							
65	100		F1	SKARN (66.2→67.0) andradite skrn. Andradite: fg to cg xstaline, mineralization - fg xstaline. Generally mg xstaline, med - drk green and/or drk red	0	0	1	4	3		
70	100			Marble (67.0→89.9) fg→mg xstaline pure	0	0	0	0	0		
75	100				0	0	0	0	0		
80	100			Silicious zones 3→5 cm wide occure regularly. (still highly calcarious)	0	0	0	1	0		
85	100				0	0	0	1	0		
90	100										

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% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION Bio A	Fl B	Trem act C	Si D	Gar E	FRACTURE INTENSITY	% VEIN QTZ.
100			SKARN (89.9 → 91.2) Silicate - andradite - tremolite skarn. 2, 7cm zones of prysmatic, xstaline, green andradite @ 89.9 & 90.7. 90.7 to 91.2 tremolite rich zone. Rest is siliceous (ie dark-grey chert (b) massive tremolite(?)	0	0	3	4	2		
100				0	0	0	1	0		
100			Marble (91.2 → 103.0) fg xstaline, pure	0	0	0	1	0		
100				0	0	0	0	0		
100			SKARN (103.0 → 111.9) (103.0 → 104.0) Massive, cg. prysmatic green andradite garnet showing zoneing	0	0	0	4	4		
100			Also a few c.g. xstals of calcite. (104.0 → 104.7) marble (w) minor andradite (104.7 → 105.3) M.S. (105.3 → 106.4) andradite garnet (106.4 → 107.3) M.S. (107.3 → 108.7) andradite garnet, massive, fg, xstaline (108.7 → 109.6) M.S. (109.6 → 111.9) M.S. (b) andradite garnet zone from 109.6 → 109.9. Viening	0	0	0	0	0		
100				0	1	0	1	0		
100				0	1	0	4	4		
100				0	1	0	1	0		
100			becomes evident @ 107 & increase in intensity towards the base of the skarn; 107 → 109 5 per m. 109 → 110 10/m 110 → 112 16/m. Viens are 1mm to 9mm thick, usually @ 60° & 140°, but may also take on other attitudes. Viens are	0	2	1	2	0		
100				2	2	0	2	0		
100			light-pale green, siliceous, minor-sulphides massive, composed of sericite(?), minor Florite, & silicate material. Tremolite observed @ 111.6 → 111.9. Actinolite @ 105.35 Tremolite-actinolite @ 105.5. Skarn is none-calcareous except for a few minor joints	2	2	0	2	0		
			Bio Hrn (111.9 → EOH) Poor to nil Fol. Qtz viening (1m → 3mm) @ 150° & 60° containing Flourite, Arsenopy & minor Po. Py. Density 15/m Joints @ 30°, may be dusted (w) calcite							
			EOH 118.0							