

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. BAF-74-12 CLAIM: DUO 4 PROPERTY: Goz Creek OVERBURDEN: 16.5 PAGE No. 1 of 12
ELEVATION: 4,680.0 SECTION: 10+100 DATE STARTED: Aug 9, 74 CONTRACTOR: Longyear LOGGED BY: G-G Webb
NORTHING: 157,820.0 INCLINATION: -90° DATE FINISHED: Aug 15, 74 CORE SIZE: BQ 18-33 SCALE: 1"=10'
EASTING: 77,747.8 AZIMUTH: — TOTAL DEPTH: 712 % CORE RECOVERY: 79% CORE STORED AT: Camp

COMMENTS: Stickup = 1.5'									
Sample Tag Numbers: 14235-14258									
Hole Summary									
18.0-140.0 Speckled Dolo-fractured, weak ZnCO ₃ in traces + diss. weak ZnS in frags.									
140.0-175.0 Inclusion Dolo - v. minor ZnS in frags.									
175.0-192.0 Inclusion Dolo - no mineralization.									
192.0-344.0 Inclusion Dolo - v. minor v. g. + fr. ZnS									
344.0-500.0 Inclusion Dolo - no mineralization									
500.0-680.0 Inclusion unmineralized Dolo - no mineral									
DESCRIPTIVE GEOLOGY									
Note BQ core 0-33'									
AQ core 33-712'									
1.5-18.0 Overburden									
18.0-140.0 Speckled Dolostone									
Fractured									
Enstatine, H. yellowish gray to med. gr. speckled and wispy banded dolostone, locally altered or partially altered. The alteration or weathering gives these sections of core the H. yellowish gray color. The core generally is very broken up between 18 and 92. The section is fractured with intensity decreasing towards the bottom. Amount of alteration decreases to the base of the section.									
focal fault breccia.									
mineralization: mainly smithsonite disseminated within altered dolo. and as fr. fillings, sections of r. sph. fr. fillings which are strongly mineralized but very finely mineralized. occasionally the sph. occurs as botryoidal masses within fr. sph. is generally weathered or r. sph. with minor py. but his lesions deep in the section 18-60 Core very broken up. Only locally con. frag. orientations be taken									
H. y. g. y. dolo. in fr. g. y. dolo. + crumbly fault breccia?									
H. y. g. y. dolo. weathered r. sph. imbedded with r. sph. partially altered r. sph. imbedded with r. sph. fault breccia									

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SECTION		Alteration	Smithsonite	Silicification	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	ASSAYS											
							DESCRIPTIVE GEOLOGY	Sample Tag Numbers: 14254-14258	ESTIMATED % SULFIDES	DILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. NUMBER	% RECOVERY	ESTIMATED GRADE	% Zn Total	% Zn Soluble (ZnCO ₃)	% Zn	%		
120							18.0-140.0 Speckled Dolostone			120.0	50%	254	50%	1.0	0.66	0.19	0.47			
							very crumbly core, very intensely fractured core v. broken up			121.0	52.5%			8.0						
							Fractured			123.0	40%									
										126.0	20%	185.0	36%	1.25	0.06	0.02	0.04			
							smithsonite fringes fillings with qtz blebs			128.0	40%	255	36%	.50						
										129.5	63%	131.0								
										131.0	72%									
										134.0	82%	256	88%	1.25	0.05	0.02	0.03			
							vertical hairline silica frac.			137.0	90%			1.25						
										140.0		140.0								
							140.0-175.0 Inclusion Dolostone				27%	257	27%	1.25	0.02	0.00	0.00			
										150.0	70%	150.0		1.25						
							fm xtaline, H. gy inclusion dolo. The inclusions are fm xtaline, H-med. gy. irregular blebs with fuzzy boundaries surrounded by med. xtaline, H. gy. - wh. spotty dolomite.			153.0	175%	258	56%	1.25	0.04	0.01	0.03			
							local sections of speckled and wispy banded dolo. frequent qtz blebs.			155.0	53.5%			1.25						
							qtz. seam and large qtz xtal.			158.0	78%	160.0								
							Mineralization: minor specks of r. sph. in vugs and along silica fracs.			167.0	100%									
										170	100%									
							175.0-192.0 Micritic Dolostone			1720	100%									

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SECTION	Lithology	Fracturing	Mineral	GEOLOGY	COMMENTS	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. #	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS			
												% Zn Total	% Zn Soluble (ZnCO ₃)	% Zn (ZnS)	%
180					1750-1970 Micritic Dolostone		1820	100%							
					fin xtaline, lt. gy. micritic dolo. with local short sections of inclusion dolo. and wispy banded dolo. locally quite vuggy generally slightly vuggy.		1880	87%							
					inclusion dolo. minor sm. th.omite		1930	99%							
					speckled dolo.		1950	97.5%							
					vuggy co. xtaline										
					speckled dolo.			90%							
					1970-3440 Inclusion Dolostone		2000	100%	2000	100%	<.25 <.25	0.02	0.01	0.01	
					med xtaline, lt. gy. inclusion dolo. the inclusions consist of fin xtaline, med gy dolo blebs with fuzzy boundaries within med xtaline. lt. gy to wh. sparry dolomite. frequent sections of slight inclusion texture and micritic dolo. The inclusion texture appears generally to be a product of recrystallized micritic dolo. and locally as a result of a dolomitized breccia.		2050	97.5%	2050	99.5%	<.25 <.25	0.18	0.02	0.16	
					speckled dolo. crackle bre. xtal. in large vug.										
					tr. sph in fracs and vugs w. minor py. pisolites										
					wispy banded dolo. with v. distinctive bands.		2150	58.5%	2150	76%	<.25	0.08	0.01	0.07	
							2180	67.5%							
							2200		2200						
					pseudobreccia tex. tr. sph in vugs										
					wispy banded wh. creamy Qtz seams and Qtz seams and blebs.		2210	92%	2210	94%	<.25 <.25	0.60	0.02	0.58	
					pseudobreccia texture										
							2350	84%	2350	87%	<.25 <.25	0.09	0.02	0.07	
							2395	89%	2395						

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SECTION	Alteration	Smithsonite	Silicification	FRACTURING	MINERAL GEOLOGY	COMMENTS:	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS				
													%	%	%	%	%
427						3440-500.0 Micritic Dolostone											
450								421.0	58%								
440								423.0	45%								
450								425.0	42.5%								
450									78%								
450						14. gy randomly oriented streaks and bands in a lighter gy dolo.		431.0	97%								
450								436.0	100%								
450								441.0	97%								
450						14 gy random bands and streaks intense hairline fracturing		446.0	96%								
450								450.0	94.5%								
470								460.0	85%								
470						argillaceous sedim. pyritic sphyolites		468.0	100%								
480								474.0	40%								

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COMMENTS:					ASSAYS											
SECTION	ALTERATION	SILICIFICATION	FRACTURING	MINERAL GEOLOGY	DESCRIPTIVE GEOLOGY	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	%	%	%	%	%
480					340-500.0 Micritic Dolostome		492.0	40%								
490					Speckled dolo py. along fracs.		488.0	78%								
500					parallel fracs. inclusion dolo.		490.0	91%								
510					intra.formational breccia, micritic frags, dr. gy matrix, inclusion dolo		499.0	32%								
520					2.5ph in wh. dolo. assoc with py.		508.0	93%								
530					pyritic stylolites micritic dolo			96%								
540					silicified frags		512.0									
550					micritic dolo		546.0	96%								
560					pyritic stylolites		532.0	78%								
570					banding 35° bedding		538.0	88%								
580							538.0	73%								
					Inclusion, mottled Textures	5.0										
					fm. x-talline, med-dr. gy dolostome, frequent sections of inclusion texture containing inclusions of med. gy dolo. with fuzzy boundaries within wh. sparry dolomite. The inclusion texture frequently tends to a pseudo breccia texture with an increase in vugs locally and partly upward toward the end of the section the wh. sparry dolomite occurs more as clasts within dr. gy dolo. Frequent sections of mottled dolo. generally with irregular blebs of dolo. within lighter gy dolo but also occurring visa versa. Local 1-4' sections of generally homogeneous micritic dolostome. Frequent c/laminated sections with laminations											

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SECTION	ALTERNATION	SMITHSONIAN	SILICIFICATION	FRACTURING	MINERAL GEOLOGY	COMMENTS:	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. NUMBER	% RECOVERY / SAMPLE INT.	ESTIMATED GRADE	ASSAYS				
													%	%	%	%	%
600						DESCRIPTIVE GEOLOGY											
						pseudobreccia wh. dolomite banding in		604.0	70%								
						500.0-680.0 Dolomite Inclusions, mottled Textures		610.0	59%								
						laminations 50" intraformational breccia, w. laminae signif. w. laminae arenaceous fine-grained, sandy troughed, amygd convolute laminations		617.0	83.5%								
						arenaceous convolute laminations			71%								
						610-655 dr. gy. dolomite		624.0	31%								
						arenaceous intraformational breccia		627.0									
						very intense hairline fracturing		633.0	98%								
						very regular laminations 650		636.0	83%								
						convolute laminations intraformational breccia		640.0	95%								
						lt. gy. frags in a dr. gy. matrix convolute laminations		643.0	53%								
						micritic		648.5	86%								
								651.0	38%								
						micritic		654.0	57%								
						very intense hairline frac. zone		658.0	51%								
660								660.0	65%								

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SECTION	Lithification	Smithsonian	Silicification	FRACTURING	MINERAL GEOLOGY	COMMENTS:	ESTIMATED % Fe SULFIDES	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INT. & NUMBER	% RECOVERY / SAMPLE INT	ESTIMATED GRADE	ASSAYS				
													%	%	%	%	%
660						DESCRIPTIVE GEOLOGY		660.0	79%								
						intraformational breccia arenaceous convolute laminations		664.0									
						Inclusion, mottled Textures			99%								
670						intraformational breccia convolute laminations		671.0									
						intensely fractured crushed frags intraformational brx.		674.0	92%								
680								680.0	78%								
690						inclusion of ex-snow on foot py. intraformational breccia arenaceous frags. Snow on foot py. mottled micritic dolo. a stylolite exposed bieb of H. by dolo strong py in 150' frac laminated 90° mottled micritic dolo			81.5%								
700						micro-fm xtal lime, H. by arenaceous micritic dolo. The micritic dolo. is not completely homogeneous but together mottled with slightly darker gy. dolo on a fine scale. The sand tends to be patchy and its content varies from a few percent locally to a sandstone over intervals of a few inches. The sand is very fine to coarse grained and sub angular to fairly well rounded. local intraformational breccia and inclusion tex. The contact with the unit above is gradational and was chosen where sand seemed to be continuous.		700.0	100%								
710						convolute laminations			106%								
						intraformational breccia		708.0									
712						intraformational breccia		712.0	96%								