

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **OP3**

PROJECT: OCEANA

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	2.10	QUARTZ GRAVEL; minor fractured limestone;			0			
2.10	12.80	WEATHERED LIMESTONE; highly fractured limestone; predominantly micritic, minor bioclastic grainstone; strong tube bioturbation; irregular calcite veining;			10			
12.80	14.20	GRAINSTONE, with near complete early-dolomite replacement; limestone islands preserved in dolomite matrix; shelly debris plus medium coral heads; fossils calcite plus rare pyrite replacement;						12.7m-12.9m: calcite plus brn carbonate veining; open space fill;
14.20	17.90	MICRITE; moderate to strong early-dolomite overprint, increasing downhole; fossil poor; common sculpture bioturbation;						
17.90	18.90	CALCITE VEIN, plus calcite cemented limestone breccia; minor galena in calcite vein;						
18.90	24.50	MICRITE; strong stylolamination; fossil poor;		17.9m-18.2m: trace galena in calcite vein;				17.8m-18.2m: calcite vein, brecciated 1st with calcite veining;
		PELLET-FOSSIL GRAINSTONE, grading to wackestone and minor micrite; calcite replaced shelly fragments and pellets, typically within early-dolomite matrix; moderate bioturbation of fine-grained beds; intense calcification of basal 0.3m;			20			
24.50	51.20	MICRITE, with minor clastic mudstone reducing downhole; pale grey, massive to rare weak lammination; moderate to strong stylotisation, stylo-lamination and stylo-breccia in part; strong bioturbation in upper 3m, decreases with decreasing clastic content; common fenestral porosity 37.1-42.0m;						

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
		decreasing oxide content; common fracture porosity 37.1-42.0m;				30		
						40		
						50		46.1m-46.4m: puggy, calcite veined, minor fault; 48.1m-48.4m: calcite vein; 10deg LCR; 48.8m-49.1m: calcite vein; 15deg LCR;
51.20	65.80	BIOTURBATED WACKESTONE and MICRITE; shelly wackestone grades downhole to massive pale grey micrite as above; rubbly as puggy; tube bioturbation; abundant early-dolomite controlled by bioturbation;			54.6m-54.6m: trace galena in calcite vein;			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
					50		
65.80 66.20	66.20 74.50	FAULT ZONE; puggy, slightly weathered; BIOTURBATED GRAINSTONE/WACKESTONE; shelly-pelletal sandy grainstone and minor wackestone; calcite replacement of shell fragments, pellets and in part matrix; abundant early-dolomite controlled by burrows, pre-stylotisation; shells typically intact; rubbly;			70		
74.50	77.40	DOLOSTONE, minor micritic limestone; massive, dark grey interval; rare fossils; interlocking crystals;					
77.40	91.20	MICRITE with minor interbedded wackestone; pale grey semi-massive micrite, with occasional isolated fossiliferous zones; occasional bioturbation; calcite+pyrite filled fenestral pores; abundant dissem. dolomite crystals from 84.5 gives granular txt;			80		

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
							86.9m-87.3m: stylobreccia:
91.20	93.70	GRAINSTONE; shelly grainstone, minor coral; disseminated early-dolomite crystals;					
93.70	95.00	RUBBLE/PUG; minor calcite veining;					
94.40	122.00	GRAINSTONE; fossil grainstone, shell fragments strongly abraided; peloidal in part, rare <i>oncoids</i> ; very clean and well sorted 108.9-113.2m, with calcite matrix in part; laminar stromatoporoid at 102.6m, 98.0m; large coral fragments and rudstone typical of Oceana host are rare, minor from 113.2-122.0m;					93.7m-95.0m: puggy, rubble, possible fault zone:
				104.8m-104.8m: trace sphalerite in matrix;			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
122.00	129.00	CAVERN;				120		
129.00	143.00	FAULT ZONE; mid-dark grey puggy fault zone, weakly acid reactive; minor intervals of mid-grey siderite?; weathers very limonitic; much core loss;				130		
						140		

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
					-140			121.4m-142.0m: fault zone; fault truncates base of Gordon Limestone:
143.00	150.00	SANDSTONE; pale cream-white quartz sandstone, minor gravel; non-calcareous; puggy in part;						
					-150			
					-160			

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