

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
OPS

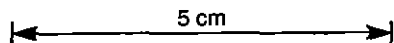
DRILLING			OBJECTIVE		COLLAR SURVEY (AMG)				
Location	TASMANIA		To test for base metal mineralisation within the Gordon Limestone corresponding to an aircore Zn-Pb and ground magnetic anomaly.		AMG mN	5359042.5	Bearing	70.0	
Project	OCEANA				AMG mE		362325.3	Dip	-55.0
Prospect	AUSTRAL VALLEY				mN			Hole Length	203.0
Design By	M S SAXON				mE			DH Survey Type	Eastman Camera
Logged By	M S SAXON				RL		168.5		
Relogged					DOWNHOLE SURVEY (AMG)				
Commenced	1/8/95				Depth	Bearing	Dip		
Completed	25/8/95				30	70	-55		
Drilled By	EAST COAST DRILLING				60	69	-56.5		
Drill Rig	LONGYEAR 38				90	66	-57.5		
			120	65	-57.0				
			150	65	-57				
SIGNIFICANT CORE LOSS			POOR GROUND CONDITION ZONES						
			From	To	Condition				
			0	182	Numerous intervals of pug/rubble intersected in Gordon Limestone. Cavities comm.				
			182	203	Friable-running sand in Crotty Quartzite.				
HOLE SIZE			HOLE CONDITIONS AFTER COMPLETION						
From	To	Size	Collar		3m of collar pipe with support bar and cap Nil Abundant water in hole Pad leveled, sump filled;				
0	59.7	HQ	Steel Casing						
59.7	203	NQ	PVC Casing						
			Ground Water						
			Wedge						
			Drill Pad						
SIGNIFICANT INTERSECTIONS									

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OP5**

PROJECT: OCEANA



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DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	5.50	No core;			0			
5.50	7.20	MICRITE; massive to weak lamination; fossil poor; common early-dolomite replaced tube burrows;						
7.20	17.00	GRAINSTONE with minor ruostone, wackestone; blotchy steel grey; abundant fossils, typically shelly plus corals and stromatoporoids to 3cm; occasional intact gast.; occasional encoidal growth on clasts; 'islands' of limestone and fossils surrounded by early-dolomite due to replacement, similar to Oceana hostrock; minor tube mottling;			10			
17.00	18.70	WACKESTONE; similar to above, increased lime matrix; shelly and coralline fragments; abundant early-dolomite replacement, bioturbation controlled;						
18.70	22.50	CORALLINE WACKESTONE; abundant branching coral in lime sand/micrite matrix; coral strongly calcite recrystallised; coral equi-spread in matrix, potential growth position; minor early-dolomite as irregular matrix replacement;			20			
22.50	25.90	RUBBLE/PUG; fossiliferous in part;						
25.90	29.70	Fine grained FOSSIL SANDSTONE grading to MICRITE; occasional large stromatoporoids; less fossiliferous downhole; minor bed controlled early-dolomite;						

FIRST CLEAVAGE, R 45, Slaty.

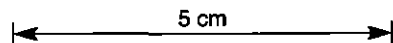
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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **OPS**

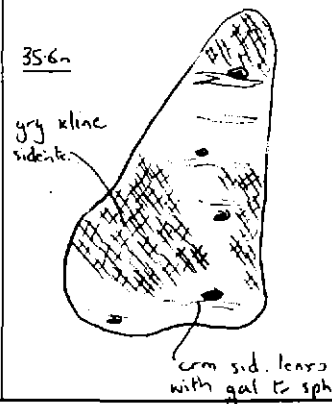
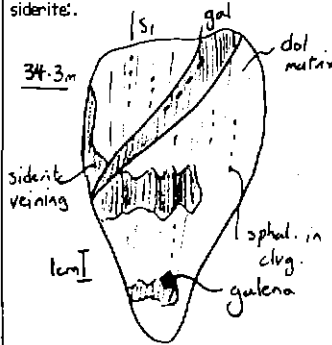
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DESCRIPTION			GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith Structures	STRUCTURES
		downhole: minor bed controlled early-dolomite;					
29.70	30.70	PUG; grey, limey.			30		
30.70	33.40	Crystalline SIDERITE/CALCITE with minor mineralization; creamy-brown in color, crushed/powdery, 80cm of core recovered;			30.7-33.4m		
		Black PUG; plastic texture;					
33.78	35.80	Crystalline SIDERITE with galena/sphalerite mineralization; interval typically creamy-brown, crushed/powdery; at 34.3m matrix to minz dolomitic, non-crystalline, strongly clvd, disseminated sphalerite attenuated in clvg; at 35.6m matrix to minz dark grey crystalline siderite with cream siderite lenses;			33.7-35.8m		
		PUG/RUBBLE; pug to 40.1m; predominantly micritic;					
44.20	51.50	GRAINSTONE with minor mudstone, wackestone; 3-8mm shelly and coralline fragments with numerous coarser fragments; clast supported, matrix poor; common oncoids; calcite cement in part, best developed 51-52m; replacive early-dolomite abundant;					
51.60	55.00	BIOTURBATED WACKESTONE ; fossil rich wackestone with bioturbation mottling highlighted by early-dolomite; bio-tubes stylolite modified;					
55.00	58.50	FOSSIL-ONCOIDAL GRAINSTONE ; preserved 5-10mm shells with oncoids; coating; lag accumulated;					

minor vein gal. minor vein gal.



FIRST CLEAVAGE, A 35.

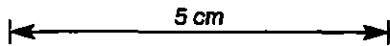
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HOLE No. **OP5**

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DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
55.00	58.90	POSSIBLY UNCONFORMABLE SANDSTONE; preserved 5-10mm shells with oncoidal coating; lag accumulated;						
58.90	62.00	BIOTURBATED WACKESTONE; rubble;		59.7-59.7m siderite-galena vein.	60			PRIMARY FABRIC, A 45, Facing downhole.
62.00	66.40	PUG; dark grey;						
66.40	70.20	SIDERITE with galena/sphalerite mineralisation; cream-brown color; semi-massive crystalline siderite veined and invaded by black dolomite(?); angular siderite clasts hosted by black dolomite; galena veinlets crosscut siderite; pyrite locally abundant; core very rubbly; lower contact gradational with reducing siderite alteration;		66.4-70.2m siderite-galena-pyrite (sph) as vein/replacement; siderite fract. by black dolomite; galena as veinlets in siderite; pyrite as clots in siderite; rubble.	70			
70.20	83.70	SILICA ALTERED BRECCIA ZONE; dark grey, slightly porous zone of intensively silicified carbonate; angular to irregular clasts supported by massive to slightly spotted matrix of silica; clasts typically massive partly altered dolomite, but near upper contact includes angular fragments of upper siderite-galena-sphalerite unit; sphalerite in both clasts and silica matrix; common blebs of grey silica; interval moderately pyritic; *silica alteration not previously seen*		70.2-71.2m sphalerite-pyrite-galena: 2% sphalerite; present as noddy sph in clasts and honey sph in silica matrix as dissemination, separate generations; abundant disseminated pyrite in silica matrix; minor dissem. galena.				
83.70	87.90	PUG; grey;		83.0-83.7m siderite-sphalerite; trace.				

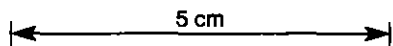
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HOLE No. **OP5**

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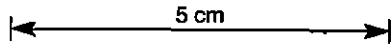
DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
83.70	87.90	PUG; grey;					
87.90	98.70	GRAINSTONE grading to rudstone and fossil sandstone; well sorted shell fragment and minor small coral, clast supported unit; typically sand-sized clasts, occasional coarser beds; calcite cement in part; minor early-dolomite; bioturbation in finer grained zones;			90		
98.70	100.20	CAVITY			100		
100.20	110.50	BIOTURBATED MICRITE, with minor interbedded wackestone; occasional large intact fossils; bioturbation predominantly tube mottling, minor sculpture mottle; common early-dolomite controlled by bedding and burrows;			110		PRIMARY FABRIC, A 45.
110.50	111.70	CORAL HEAD(S); compound coral heads to 0.3m; micritic 1st between heads; stylotised margins;					
111.70	112.20	MICRITE; pale grey; birds-eye fenestral porosity;					

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PROJECT: OCEANA



Vertical Scale 1 : 200

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DESCRIPTION			GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
111.20	112.20	MICRITE; pale gray; birdseye fenestral porosity;						
112.20	121.70	WACKESTONE; mid grey micritic matrix hosting intact and fragmented fossils; minor bioturbation;						
121.70	123.00	Interbedded CLASTIC MUDSTONE and MICRITE; mid grey micrite with minor fossil debris, with 20% intercalated clastic mudstone; weak internal lamination;						
123.00	125.90	MICRITE; pale grey limestone with strong planar stylolamination in part; abundant irregular-elongate calcite filled fenestral pores, slight bed control, possible algal origin;						
125.90	128.80	ONCOIDAL-FOSSIL WACKESTONE; shelly debris in micrite matrix with common oncolidal coating on shell fragments; oncoids to 1.5cm diam.; solit. coral common but uncoated;						
128.80	135.50	Interbedded CLASTIC MUDSTONE and LIMESTONE; 3-10cm planar beds of brown mudstone and wackestone or grainstone; bed contacts sharp, stylotised; common tube bioturbation at bed margins; mudstone beds and grainstone horizons both host early-dolomite;						
135.50	137.00	PUG; dark grey;						
137.00	144.00	GRAINSTONE; coarse sandy clast supported grainstone, 2mm clast avg.; shell fragments plus coral to 5cm size; fossils calcite replaced; strong early-dolomite overprint, cut by stylolites;						

114.3-114.4m galena; trace adjacent to calcite veins.

1st clastic mudstone
fenestral/alg.

VEIN, Calcite-wallrock fragments

VEIN, Calcite-wallrock fragments

Crn-brn pug, probable siderite

PRIMARY FABRIC, A 35.

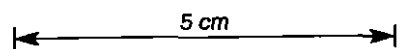
Crn-brn pug, probable siderite

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PASMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
 Vertical Scale 1 : 200

HOLE No. **OPS**

PROJECT: OCEANR



DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					140			
144.00	152.70	Interbedded CLASTIC MUDSTONE and MICRITE, grading to NODULAR LIMESTONE; pale grey micrite nodules have stylolite margins, elongate bed parallel, minor internal lamination, host occasional fossil debris; rubble and pug below 149m;	 <i>lst nodules, fabric wraps</i>		150			
152.70	161.30	RUBBLE, PUG; dark grey micritic lst fragments;			160			
161.30	161.90	CORAL HEAD; compound coral heads plus minor wackestone;						
161.90	163.00	PUG; dark grey;						
163.00	169.30	CAVITY						

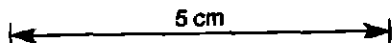
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PRSMINCO EXPLORATION
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HOLE No. **0P5**

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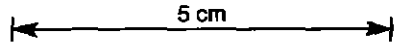
DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	
169.30	175.10	PUG; dark grey;	<p><i>siderite rubble.</i> <i>galena veining</i></p>		170			
		SIDERITE; minor rubble of dark grey siderite; possible minor mineralization;						
175.30	177.40	PUG; dark grey-black;						
177.40	180.30	SIDERITE with GALENA and minor sphalerite mineralization; crm-brn coarsely cryst. massive siderite with intercryst. and fracture fill galena; trace disseminated sphalerite assoc.; below 178m siderite brecciated, clasts hosted by fine grained crm dolomite(?) matrix; siderite rim texture shows open space fill; vugs in siderite open or calcite filled; galena hosted by both siderite and dolomite veining; pug 179.9-180.1m;	<p><i>dol. veining</i></p>	177.4-180.3m siderite-galena-sphalerite; massive siderite with 5-10% disseminated and vein galena. 1% disseminated sphalerite; open space fill texture.	180			
180.30	182.50	PUG; cream brn sideritic pug, possible minor mineralization;						
182.50	185.10	SANDSTONE; mid-grey medium grained quartz sandstone; bedded, laminated; conc broken;						
185.10	187.40	QUARTZITE; pale grey coarse grained quartzite; clear quartz grains, minor lithics; silica cement;						
187.40	197.20	Interbedded SANDSTONE and SILTSTONE; pale grey quartz sand bedded with mid grey laminated siltstone; bedding contorted, folded;			190		<p>PRIMARY FABRIC, A 40.</p> <p>FOLD. Axis, Open folding</p>	

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HOLE No. **0P5**

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
197.20	203.00	QUARTZITE; medium grained pale grey quartzite, silica cement;			200		FIRST CLEAVAGE, Spaced.
					210		
					220		

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