

Garfish-1



Date:	08-06-2008	Last Casing:	340 mm (13 ? ") @ 746.5 mMDRT
Report Number:	7	Leak Off Test:	2.09 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	216 mm (8 ½")
Depth @ 2400 Hrs:	2352.0 mMDRT	Mud Weight:	1.32 SG
Last Depth:	2081.0 mMDRT	ECD:	1.53 SG
Progress:	271 m	Mud Type:	KCL/Polymer
TD Lithology:	Claystone	V: 6 / 3	14/12
Water Depth:	56.3 m	Mud Fluid Loss:	6.0
RT Elevation:	39.9 m	Bit Type:	Smith RSX519M

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilled 8½" hole from 2082m to 2352m. Weighted up mud to 1.32 SG in preparation for possible over pressured zones.
06:00 Update	Drilled 8½" hole from 2352m to 2411m. Flow checked drill break at 2408m. Stood back 2 stands in derrick and picked up 6 singles. Continued drilling 8½" hole from 2411m to 2424m.
NEXT 24 HOURS:	Continue to drill 8 ½" hole to coring point.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
2129-2145 ROP: 3-14 m/hr AV: 8 m/hr	<p>Top Kipper Formation</p> <p>SANDSTONE (15-30%): light grey, loose, bimodal coarse to granule, common angular fragments, otherwise subangular to subrounded; very fine to fine, subangular to subrounded; transparent to translucent quartz, trace dark grey lithics; trace bright fluorescence as above.</p> <p>SILTSTONE (0-70): grading to claystone, brownish grey, dark yellowish brown, dusky brown, commonly with carbonaceous material or microlaminae; common loose very coarse sand-sized pyrite nodules.</p> <p>CLAYSTONE (0-80%): medium light grey to medium grey, light brownish grey to brownish grey in part, firm, sub blocky to blocky, minor to common quartz silt, trace disseminated pyrite, trace carbonaceous fragments, non calcareous.</p>
2145-2175 ROP: 4-24 m/hr AV: 10 m/hr	<p>CLAYSTONE (100%): medium grey to medium dark grey, firm, brownish grey in part, sub blocky to blocky, trace quartz silt, trace disseminated and nodular pyrite, trace carbonaceous fragments, non calcareous.</p>
2175-2231 ROP: 8-28 m/hr AV: 28 m/hr	<p>Interbedded sandstone and claystone, including thick sandstone beds at 2182.5-2197, 2207-2211 and 2227-2231 m.</p> <p>SANDSTONE (0-90%): quartzose, white to very light grey, trace moderate orange</p>

	<p>pink, clear to predominantly translucent grains, returned loose, very fine to medium grained, predominantly fine to medium, common very fine, angular to sub rounded, low to moderate sphericity, trace elongate, well sorted, nil to trace calcareous cement, trace lithic grains, fair to good inferred porosity. No Shows.</p> <p>CLAYSTONE (10-100%): medium grey to medium dark grey, light brownish grey to brownish grey in part, firm, sub blocky to blocky, trace quartz silt, trace disseminated and nodular pyrite, trace carbonaceous fragments, non calcareous.</p>
<p>2231-2259 ROP: 12-41 m/hr AV: 19 m/hr</p>	<p>CLAYSTONE (100-70%): medium grey to medium dark grey, light brownish grey to brownish grey in part, firm, sub blocky to blocky, trace quartz silt, trace disseminated and nodular pyrite, trace carbonaceous fragments, non calcareous.</p>
<p>2259-2296 ROP: 11-43 m/hr AV: 22 m/hr</p>	<p>Interbedded sandstone, siltstone and claystone, including thick sandstone bed at 2286 - 2296 m.</p> <p>SILTSTONE (30-70%): medium grey to brownish grey, firm to moderately hard, subblocky to blocky, non calcareous, with rare very fine to fine sand, common carbonaceous material and lenses, locally common micromica.</p> <p>SANDSTONE (20-50%): quartzose, very light grey, mainly loose, very fine to medium, moderately sorted, angular to subrounded. Trace very light grey sandstone aggregates, friable, very fine upper to fine lower, well sorted, subangular quartz and rare dark grey lithics; non calcareous, inferred weakly silica cemented, fair visible porosity. No shows.</p> <p>CLAYSTONE (10-20%): medium grey to medium dark grey, firm, sub blocky to blocky, trace quartz silt, trace disseminated and nodular pyrite, trace carbonaceous fragments, non calcareous; minor brownish grey, very pure, flakey, waxy claystone.</p>
<p>2296-2325 ROP: 7-25 m/hr AV: 12 m/hr</p>	<p>Siltstone with few thin cemented sandstone stringers.</p> <p>SILTSTONE (50-70%): medium grey to brownish grey, firm to moderately hard, subblocky to blocky, non calcareous, with rare very fine to fine sand, common carbonaceous material and lenses, locally common micromica.</p> <p>SANDSTONE (5-30%): mainly loose very fine to medium, as above; 5% aggregates, trace very coarse subrounded to rounded quartz grains. No shows.</p> <p>NB: Marked rise in gas baseline at 2293 m.</p>
<p>2325-2358 ROP: 5-13 m/hr AV: 8 m/hr</p>	<p>Claystone.</p> <p>CLAYSTONE (100%): dark grey, firm to moderately hard, subfissile, tabular to elongate cuttings, non calcareous, homogeneous.</p>
<p>2358-2385 ROP: 8-52 m/hr AV: 24 m/hr</p>	<p>Interbedded sandstone and claystone.</p> <p>SANDSTONE (5-20%): light grey, loose, fine lower to medium lower, well sorted, angular to subrounded, transparent to translucent quartz; 5% fine sandstone aggregates, friable to moderately hard, locally tending to rockflour, weakly calcite cemented, poor visible porosity. No shows.</p> <p>SILTSTONE (Tr-5%): medium grey, firm, subblocky, locally very fine sandy, locally with common carbonaceous microlaminae.</p> <p>CLAYSTONE (75-95%): light to medium brownish grey, minor medium grey, mainly firm, subfissile to subblocky, minor soft, subblocky, non calcareous, locally with carbonaceous streaks.</p>

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2132-2385	Nil hydrocarbon fluorescence, trace mineral fluorescence.

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2129-2145	0.01-0.09	44-149	0-8	0-4	-	-	-	-
2145-2175	0.01-0.02	41-110	0-4	1-5	-	-	-	-
2175-2231	0.01-0.07	47-219	0-4	-	-	-	-	-
2231-2259	0.01-0.03	67-185	1-4	1-4	-	-	-	-
2259-2296	0.02-0.15	85-1629	1-28	1-27	-	-	-	-
2296-2325	0.01-0.18	23-1655	0-31	0-27	0-2	0-1	-	-
2325-2358	0.01-0.20	148-1644	1-21	3-20	1	-	-	-
2358 peak	0.20	1644	21	18	2	1	-	-
2358-2385	0.04-0.15	200-1477	3-22	4-18	0-1	0-2	-	-

SURVEYS

MD	ANGLE	Azi	TVD				
2188.18	1.63	348.05	2188.0				
2395.12	1.70	329.99	2394.8				

FORMATION TOPS

WD = 56.3 m RTE = 39.9 m								
FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Sea Floor/ Gippsland Limestone	96.0	-56	n/a	96.2	-56.3	-		
Lakes Entrance	1201	-1161		1184	-1144	17 hi		
Latrobe	1611	-1571		1615	-1575	4 lo		
K/T Boundary	1917	-1877						
Un-named Volcanics	2045	-2005		2051	-2011	6 lo		
Chimaera	2071.5	-2031.5		2091	-2051	19.5 lo		
Kipper Shale	2101	-2061		2129	-2092	28 lo		
Admiral Formation	2220	-2180						
500 Sands	2278	-2238						
400 Sands	2378.5	-2338.5						
300 Sands	2441	-2401						
200 Sands	N/A	N/A						
100 Sands	2467	-2427						
Emperor Volcanics	2489	-2449						

TD	2520	-2480						
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COMMENTS:

Admiral Horizon Picks

Correlation of the Top Admiral and sand packages is still in progress.

MWD sensor offsets:

GR: 8.59m
Resistivity at bit: 4.04 m
Resistivity Shallow: 9.43m
Resistivity Medium: 9.30m
Resistivity Deep: 9.12m
Directional: 15.42m

WELLSITE GEOLOGISTS: Cliff Menhennitt Bill Leask