



# Daily Geology Report

Well Name:		Ayrford-1	
Report No:	9	For date:	16-Apr-08
Days:	9	Midnight depth:	1383
24 hr progress:			243
0600 depth update:			1449
06:00 operation & 24 program:		Drilling ahead 8 1/2" hole	
Highlights and Fm tops:	Top Skull Creek Mudstone 1217m, top Nullawarre Greensand 1304m		

## Interval Descriptions

From	To	Thick ness	ROP m/hr	GAS PPM	Description and shows
			min-max(av)		
1140	1217	77	8.4-44 (24)	0.1 - 4 1.4	SANDSTONE (20 - 100%): Predom 1. Disaggregated qtz grains, clear, translucent, m-vc, predom vc, generally broken and angular, some smaller grains sub-rounded. Minor 2. Light grey, quartzose, vf-fn, carb flecks, clay matrix, generally soft, hard pyrite cement ip.
Typical Gas Analysis PPM					
C1	C2	C3	i+nC4	C5	
343	8	6			CLAYSTONE (0 - 80%): White, light grey, light brownish grey, very pale orange, with abundant very fine quartz sand ip, soft, amorphous, carbonaceous flecks in part, grading to SANDY CLAYSTONE.

From	To	Thick ness	ROP m/hr	GAS PPM	Description and shows
			min-max(av)		
1217	1255	38	16-35 (24)	0.1 - 6 (3)	SANDY and SILTY CLAYSTONE (70 - 100%): Light grey, med grey, light brownish grey, soft-firm, amorphous-blocky, common carb flecks and wisps, very silty and sandy (vf quartz) ip, trace glauconitic pisolites and clay ip. SANDSTONE (0 - 30%) : Predom 1. disagg quartz grains, clear and translucent to opaque, c-vc, sa-r, commonly fractured and broken. Minor 2. Very light grey aggregates, quartzose, fn-m, well sorted, firm to hard, silica cemented, pyrite cement ip. Rare amber grains.
Typical Gas Analysis PPM					
C1	C2	C3	i+nC4	C5	
344	16	12			

From	To	Thick ness	ROP m/hr	GAS PPM	Description and shows
			min-max(av)		
1255	1304	49	13-33 (23)	0.6 - 33 (6)	SILTY CLAYSTONE (100%) : Grey, brownish grey, soft, generally amorphous, rarely blocky, dispersive, with carbonaceous flecks and wisps, gt sandy claystone. Trace SILTSTONE: brownish grey, soft to firm, blocky. Trace coalified wood frags. Rare amber grains (bright yellow fluorescence). Trace SANDSTONE: a/a
Typical Gas Analysis PPM					
C1	C2	C3	i+nC4	C5	
706	139	135	34		

From	To	Thick ness	ROP m/hr	GAS PPM	Description and shows
			min-max(av)		
1304	1315	11	20-30 (26)	5 - 56 (15)	SILTY CLAYSTONE (100%): a/a. Trace dark greenish grey glauconitic clay. Trace pyrite. Trace chert.
Typical Gas Analysis PPM					
C1	C2	C3	i+nC4	C5	
565	168	165	100	5	

From	To	Thick ness	ROP m/hr	GAS PPM	Description and shows
			min-max(av)		
1315	1383	68	8-42 (27)	1 - 6 (3.5)	SANDSTONE (60-100%): disagg quartz grains, translucent to opaque, light greenish grey, also pale orange brown below 1345m, m-c,occ vc, sa-sr, trace greenish grey glauconitic clay clinging to grains ip. SILTSTONE (0-20%): Light grey, light brownish grey, greyish brown, soft-firm, blocky, carbonaceous flecks ip, trace glauconitic pisolites, trace pyrite cement. CLAYSTONE (0-20%): White, brownish grey, greenish grey, soft, amorphous, sandy and silty in part.
Typical Gas Analysis PPM					
C1	C2	C3	i+nC4	C5	
347	81	77	70	11	

## Comments