Essential Petroleum Resources Limited

Daily Geology Report

Well Name:			Pritchard 1
Report No:	**2**	For date:	28-Mar-06
Days:	2	Midnight depth:	477
24 hr progress			350
0600 depth update			558
Current operation & 24 program:	Drilling ahead 12 1/4" (311 mm) hole in the Dilwyn Fm. We plan a short wiper trip to condition hole then drill ahead to casing point.		
Highlights and Fm tops:			

Interval Descriptions

From	To	Thickness	ROP m/hr min-max(av)	GAS PPM	Description and shows
127	**140**	**13**	**2.5 - 60 (35)**	**trace to nil**	SILTY CLAYSTONE: very dark grey to greyish, soft to very hard/calcareous, individual bands very pyritic, with fine pyrite dispersed and as nodules. Rare interbeds of SANDSTONE: light brown, very fine to very coarse, poorly sorted, angular to subrounded, predominantly loose with calcareous cement adhering to grains.

Average Gas Analysis PPM

C1	C2	C3	i+nC4	C5

From	To	Thickness	ROP m/hr min-max(av)	GAS PPM	Description and shows
140	**193**	**53**	**5 - 85 (50)**	**0**	SANDSTONE: clear to milky, light brown, fine to medium occasionally very coarse, angular, common composite quartz grains, common mica, minor dispersive clay washing out. Interbedded with minor CARBONACEOUS CLAYSTONE: very dark brown, lignitic.

Gas Analysis PPM

C1	C2	C3	i+nC4	C5

From	To	Thickness	ROP m/hr min-max(av)	GAS PPM	Description and shows
193	**477**	**284**	**3 - 150 (25)**	**0-100**	Coarsening upward sequences of SANDSTONE and SILTY CLAYSTONE. SANDSTONE: clear to very light brown, fine to very coarse grained, occasionally granular, poorly sorted, bimodal in part, loose, quartzose, trace lithics and coarse mica flakes, clean, grades downward to fine to medium sandstone with a soft clay matrix, and becomes interbedded with minor SILTY CLAYSTONE: grey to dark greyish brown, carbonaceous and pyritic in part. Trace COAL: very dark brown, lignitic, pyritic. Porosity at the top of the sequences is very good, no shows. Minor gas readings present in slow drilling coaly clay-rich section 380 - 410 m.

Gas Analysis PPM

C1	C2	C3	i+nC4	C5
0-100	**0**	**0**	**0**	**0**

From	To	Thickness	ROP m/hr min-max(av)	GAS PPM	Description and shows

Gas Analysis PPM

C1	C2	C3	i+nC4	C5

Comments, or other evaluation reports