Essential Petroleum Resources Limited

Daily Geology Report

Well Name:		East Wing-1	
Report No:	**14**	For date:	9-May-08
Days:	14	Midnight depth:	2254
24 hr progress:			100
0600 depth update:			2254
06:00 operation & 24 program:		Working stuck pipe.	
Highlights and Fm tops:		Top Waarre Formaton 2202m (33m high to prognosis)	

Interval Descriptions

From	To	Thickness	ROP m/hr min-max(av)	GAS Units	Description and shows
2154	**2185**	**31**	**9-31 (17)**	**16 - 130 (22)**	SILTSTONE (35-100%): medium grey, brownish grey, arenaceous (vfn sand) ip, fine glauconite pellets ip, grading to SILTY CLAYSTONE (0-60%): Brownish grey to greyish red, trace greyish green, speckled with fine glauconite pellets ip, yellowish orange limonite alteration ip, firm to hard. SANDSTONE (0-20%): 1. White and light greyish green aggregates, vf, quartzose, firm, friable, clay matrix ip 2. Loose quartz grains, translucent to opaque, stained orange brown ip, m-vc, sa-sr, large broken grains suggests granular ip, trace white and light greyish green clay adhering to some grains. Trace marine fossil frags.

Average Gas Analysis %				
C1	C2	C3	i+nC4	C5
0.24	**0.02**	**0.01**	**0**	**0**

From	To	Thickness	ROP m/hr min-max(av)	GAS Units	Description and shows
2185	**2202**	**17**	**7-25 (16)**	**16.5-641 (154)**	SANDSTONE (70-90%): light grey, greyish orange, speckled and mottled white, grey, green, vf to vc, predominantly coarse, ang to srnd, poorly sorted, dense silica and carbonate cement, with silty matrix as above, aggregates break across qtz grains in part, becoming cleaner with common loose grains. Tr glauc, tr dense pyrite aggregates, vis por nil, no show. SILTSTONE (0-10%): very light grey, light grey, very finely sandy, rare coarse quartz inclusions, trace glauconite; gt SILTY CLAYSTONE (5-30%): medium grey to dark grey, hard.

Average Gas Analysis %				
C1	C2	C3	i+nC4	C5
2.8	**0.2**	**0.065**	**0.017**	**0.008**

From	To	Thickness	ROP m/hr min-max(av)	GAS Units	Description and shows
2202	**2235**	**33**	**7-16 (12)**	**35-189 (104)**	SANDSTONE (8-100%): predom 1. as loose quartz grains, clear to white, m-vc, a-sr, mod sorted, mod to dense silica cement; rare hard aggregates with mod to dense silica cement; trace 2. light brownish grey silty sandstone aggregates, vf, quartzose, firm, friable, with brownish grey silty matrix. SILTSTONE (0-10%): very light grey, light grey, very finely sandy, rare coarse quartz inclusions, trace glauconite; gt CLAYSTONE (0-15%): medium greyish brown, dark brownish grey, speckled with greyish green glauconite pellets, blocky to splintery, firm to hard, silty ip. Rare marine fossil frags. Rare pyritised, coalified wood fragments.

Average Gas Analysis %				
C1	C2	C3	i+nC4	C5
1.42	**0.1**	**0.044**	**0.041**	**0.003**

From	To	Thickness	ROP m/hr min-max(av)	GAS Units	Description and shows
2235	**2254**	**19**	**6-14 (9)**	**15-60 (35)**	SANDSTONE (30-80%): 1. loose quartz grains, clear, translucent to white, m-c, ang (broken?) to sr; 2. white to very light brownish grey aggregates, firm, friable, vf grained, with white clay matrix and weak calcite cement, carbonaceous flecks and wisps ip, disseminated pyrite cement ip gt SILTSTONE (5-40%): medium grey,with carbonaceous flecks and wisps ip, gt CLAYSTONE (10-60%): medium grey to dark grey, commonly speckled with fine glauconitic grains. Rare bright COAL frags. Rare GLAUCONITIC CHERTY DOLOSTONE: light brown, speckled dark greyish green, hard, splintery.

Average Gas Analysis %				
C1	C2	C3	i+nC4	C5
0.44	**0.03**	**0.015**	**0.025**	**0.003**