



					<u>Trefo</u>	<u>il-2</u>					
Date : 11 Nov	2009			(	Seology Report	Number : 29				( ass	ociated DDR # 42
					Well Do	etails					
Depth MDBR1	 Γ:		2983.0m	Rig:		Kan	Tan IV	Date:			11 Nov 2009
Depth TVDBR	T:		2983.0m	Progress:		;	349.0m	Report St	tart:		0000
Depth TVDSS	:	2957.0m RTE agl:						Report End:			2400
Hole Size:			8.500in	GLE ams	l:		0 (m)	Days On Location:			41.38
Hole Size Car	bide:			Last Csg	Size:		9.625in	Days sind	ce Spud:		36.67
Water Depth (	MSL)		69.0m	Last Csg	Shoe:	2	520.0m				
RT-ASL(MSL)			26.0m	F.I.T. / L.0	D.T.:	11.0	00ppg /				
					Operations	Summary					
24hr Summary	<b>/</b> :	Drilled	ahead in 2	16 mm (8-1	/2") hole section	to core point a	at 2983 m	MDRT.			
Forward Plan:		РООН	l, pick up co	re barrel, R	IH.						
General Co	mments										
	00 Hrs ON 11 N	ov 2009	)								
				es: 2 Data e	engineers. 2 mud	lloggers, 2 sar	mple cato	hers on bo	ard. Reser	val Gas ed	uipment calibrated
Operational Comments  5 Nov 09, standard ga Sperry: 3 MWD engin				as equipment cali					.a. <b>3</b> a5 54		
Operational Comments		ts	Gamma (DGR) 2.83 m Resistivity (EWR-P4) 5.17 m Directional (PCD) 10.07 m Density (ALD) 15.56 m Porosity (CTN) 19.43 m Sonic (BAT) 24.20 m Caliper (ACAL) 31.02 m								
					WBM	Data					
Mud Type:	KCI POLYMER	Flowlin	e Temp:		CI:	40000mg/l	•		Viscosity PV	46sec/q	
Sample From:	2		Circ Temp:		Hard/Ca:	350mg/l			YP	29lb/100ft	
Time: Weight:	21:30 hrs		CP Temp:		MBT: PM:	12	,		Gels 10s Gels 10m	1	
ECD TD:	9.45ppg	Glycol: Nitrates			PF:	0.3 0.25	H2O: Oil:		93%	Fann 003	1.
ECD Shoe:		Sulphite			MF:	2.2	Sand: .3 %		Fann 006	1	
ECD Cuttings:		API FL:		.0cc/30min	pH:	9	Barite:		Fann 100 Fann 200	3	
KCI Equiv:	8%				PHPA Excess:				Fann 300 Fann 600	4 5	
Shakore V	olumes and	41.000	nos Data		Engineer : Mike	Lawrance / F	eraus Sn	encer		1 aiii 000	
Available	1911.8bbl	Losse		0.0bbl		- Lawrance / I	Descr.		Mesh Siz	70	Hours
	640.0bbl			10001	Equip. Shaker 1	Brandt	VSM 30	0	20 top/50		Houis
Active		Downhole		Shaker 2	Brandt VSM 3		•			24	
Mixing	0.0bbl	Surf+ Equip 0.0bbl		Shaker 3	Brandt VSM 300		•		24		
Hole	608.2bbl	Dumped		Shaker 4	Brandt	VSM 30	0	20 top/50	bottom		
Slug		De-Ga	sser								
Reserve	663.6bbl	De-Sa	nder								
Kill		De-Silt	ter								
		1			1						

Comment

Centrifuge





Formation Tops								
	Prognosed		Actual		Diff.	Thickness		
Formation	MDBRT (m)	TVDSS (m)	MDBRT (m)	TVDSS (m)	+ / - TVD (m)	MD (m)	Pick Criteria	
Torquay Group	95.00	69.00	95.00	69.00	0.00	823.00	Sea floor	
Lower Miocene Seismic Marker	904.00	878.00	918.00	892.00	-14.00	244.00	GR increase	
Upper Angahook	1168.00	1142.00	1162.00	1136.00	6.00	169.00	GR decrease, res increase	
Angahook Volcanics Equiv	1323.00	1297.00	1331.00	1305.00	-8.00	238.00	GR decrease, res increase	
Lower Angahook	1564.00	1538.00	1569.00	1543.00	-5.00	281.00	GR decrease, res increase	
Demons Bluff	1839.00	1813.00	1850.00	1824.00	-11.00	255.00	Res increase	
Eastern View Coal Measures	2092.00	2066.00	2105.00	2079.00	-13.00	596.50	Res decrease	
Eocene Unconformity	2691.00	2665.00	2701.50	2675.10	-10.10	157.30	GR decrease	
2973 Seismic Marker	2841.00	2815.00	2858.80	2832.40	-17.40	79.00	GR decrease, res decrease	
Base Low A1 Zone	2922.00	2896.00	2937.80	2911.40	-15.40	39.20	GR increase, res increase	
TL40 Sand	2971.00	2945.00	2977.00	2950.60	-5.60	0.00	GR decrease	
Lithology Summary								

		Lithology Summary					
Interval MDBRT (m) From To	ROP (m/hr)	Lithology					
2774.00 - 2827.50	Min:11 Avg:26 Max:31	CLAYSTONE with minor interbeds of ARGILLACEOUS SILTSTONE and SANDSTONE CLAYSTONE (90-100%): medium grey to medium dark grey, olive grey to light olive grey, soft to moderately hard, subblocky to blocky, trace carbonaceous material.  ARGILLACEOUS SILTSTONE (0-10%): brownish black, olive black, olive grey to brownish grey, soft to firm, subblocky to blocky, trace carbonaceous material, trace lithic fragments.  SANDSTONE (0-5%): white to very light grey, clear to opaque, 10% fine, 20% medium, 70% coarse grains, loose to moderately hard, moderately to well sorted, rounded to angular, subspherical to spherical, trace silica cement, fair inferred visual porosity, no hydrocarbon fluorescence.					
Interval MDBRT (m) From To	ROP (m/hr)	Lithology					
2827.50 - 2914.00	Min:5 Avg:24 Max:36	SILTSTONE interbedded with SANDSTONE and CLAYSTONE with thin COAL beds SILTSTONE (5-100%): olive grey, brownish black, soft to firm, subblocky to blocky, trace carbonaceous material as thin laminae and specks, trace lithic fragments, trace micromicas, trace black, bright coal pieces. CLAYSTONE (0-65%): olive grey, olive black, soft to firm, subblocky to blocky, increase in carbonaceous material. SANDSTONE (0-80%): white to very light grey, 40% very fine, 60% fine, firm, moderately to well sorted, subrounded to subangular, subspherical, trace silica cement, trace carbonaceous material, trace dispersed coal pieces, fair inferred visual porosity, no hydrocarbon fluorescence. COAL (0-10%): brownish black to black, soft to firm, argillaceous and dull to sub-vitreous, bright in part, conchoidal fracture in part, traces amber.					
Interval MDBRT (m) From To	ROP (m/hr)	Lithology					
2914.00 - 2983.00	Min:1 Avg:10 Max:101	SILTSTONE interbedded with thick SANDSTONE and CLAYSTONE, minor COAL beds SILTSTONE (20-90%): olive grey, brownish black to olive black, soft to firm, subblocky to blocky, 5% argillaceous material, trace carbonaceous material as thin laminae and specks, trace lithic fragments, trace to 2% brown and clear mica flakes, trace black, bright coal pieces. SANDSTONE (10-90%): white to very light grey, clear and opaque when loose, in part multicoloured, light olive grey, mottled, lithofeldspathic in part, loose to friable quartzose, 5% very fine, 5% fine, 30% medium, 40% coarse, 20% very coarse, trace granular grains, rounded to subangular, poor to moderately sorted, subspherical to spherical, 5% clay matrix, 1% altered feldspars, trace to 2% carbonaceous material, trace to 1% mica flakes, fair to good inferred visual porosity, no hydrocarbon fluorescence. CLAYSTONE (0-65%): brownish grey, olive grey to olive black, soft to firm, blocky to subblocky, trace dark mica flakes trace carbonaceous material. COAL (0-5%): black, greyish black, soft, splintery.					

Gas Data									
Depth Interval (m)	Gas Type	Total Gas (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	C5 (%)	CO2 (%)
2774.00 - 2827.50	Drilled	0.290	0.1121	0.0189	0.0154	0.0041	0.0030	0.0018	0.000
2827.50 - 2914.00	Drilled	0.370	0.1714	0.0246	0.0171	0.0041	0.0025	0.0018	0.000
2830.00 -	Peak	2.276	1.2091	0.1739	0.1596	0.0442	0.0427	0.0280	0.000
2914.00 - 2983.00	Drilled	0.178	0.0963	0.0091	0.0065	0.0038	0.0026	0.0027	0.000





				Survey				
MDBRT	Incl.	Corr. Az	TVDBRT	'V' Sect	Dogleg	N/S	E/W	Tool Type
(m)	(deg)	(deg)	(m)	(deg)	(deg/30m)	(m)	(m)	
2791.49	1.8	85.3	2791.12		24.9			MWD
2819.89	1.9	85.2	2819.50		25.2			MWD
2847.72	2.1	83.7	2847.31	24.6	0.2			MWD
2876.19	2.2	81.9	2875.76	25.5	0.2			MWD
2905.64	2.5	85.8	2905.19	26.1	0.3			MWD
2935.67	2.6	82.7	2935.19	26.7	0.2			MWD
2963.22	2.9	85.2	2962.71	27.3	0.4			MWD

	06:00 Hrs Update
Time:	06:00 Hrs on 12 Nov 2009
Depth:	2983 mMDRT/ 2983 mTVDRT
Progress Since Midnight (m):	0
Status @ 0600hrs:	Cont to POOH BHA
Formation:	Eastern View Coal Measures
Lithology:	No drilling
ROP:	No drilling
Gas:	No drilling

Wellsite	Geologist(s)
(Days) - Dennis Archer	(Nights) - Larissa Hansen