



DRILLING FLUID REPORT

Report #	27	Date :	27-Jun-2007
Rig No	11	Spud :	1-Jun-2007
Depth	1821	to	1824 Metres

OPERATOR Petro Tech Pty Ltd	CONTRACTOR Century Drilling Limited
REPORT FOR Dave Hair	REPORT FOR Cesar Miaco
WELL NAME AND No Boola Boola#2	FIELD PEP 166
	LOCATION Gippsland Basin
	STATE Victoria

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)			CIRCULATION DATA						
BIT SIZE	TYPE	12	12	12	13 3/8	SURFACE SET @	49	ft	HOLE	PITS	PUMP SIZE		CIRCULATION					
8.50	Reed-TD4415PD					15	M		385	280	5.5	X	7	Inches	PRESS (PSI)	1950	psi	
DRILL PIPE SIZE	TYPE	Length			9 5/8	INTERMEDIATE SET @	1870	ft	TOTAL CIRCULATING VOL.			PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)				
4.5	16.6 #	1621 Mtrs				570	M		665			GD-PZ-7	97	%	37 min			
DRILL PIPE SIZE	TYPE	Length			PRODUCTION. o LINER Set @			ft	IN STORAGE			BBL/STK	STK / MIN	TOTAL CIRC. TIME (min)				
4.50	HW	37 Mtrs										0.0499	190	72 min				
DRILL COLLAR SIZE (")		Length			MUD TYPE							BBL/MIN	GAL / MIN	ANN VEL.	DP	182	Lam	
6.25	8.00	166 Mtrs			Gel/KCl/Polymers							9.20	386	(ft/min)	DCs	285	1147	Lam

SAMPLE FROM				MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN				Suction		Suction		Mud Weight	8.6 - 9.1	API Filtrate	8.0 - 15.0	HPHT Filtrate	
DEPTH (ft) - (m)				1300		2130		Plastic Vis	ALAP	Yield Point	4.0 - 10.0	pH	
FLOWLINE TEMPERATURE				1,790		1,817		KCl	1.0 - 2.0%	PHPA		Sulphites	80 - 120
WEIGHT				56		57		<p style="text-align: center;"><u>OBSERVATIONS</u></p> <p>Barite used to increase MW to 11ppg PAC R used to increase viscosity Short system in use to limit the amount of mud to be treated</p>					
FUNNEL VISCOSITY (sec/qt) API @				11.00		1.321							
PLASTIC VISCOSITY cP @				11.00		1.321							
YIELD POINT (lb/100ft ²)				44		43							
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min				15		13							
RHEOLOGY Ø 600 / Ø 300				24		24							
RHEOLOGY Ø 200 / Ø 100				17		30							
RHEOLOGY Ø 6 / Ø 3				54		39							
FILTRATE API (cc's/30 min)				33		26							
HPHT FILTRATE (cc's/30 min) @				13		12							
CAKE THICKNESS API : HPHT (32nd in)				15		15							
SOLIDS CONTENT (% by Volume)				1		1							
LIQUID CONTENT (% by Volume) OIL/WATER				14.2		14.0							
SAND CONTENT (% by Vol.)				85.8		86.0							
METHYLENE BLUE CAPACITY (ppb equiv.)				0.25		0.25							
pH				7.5		7.5							
ALKALINITY MUD (Pm)				8.5		8.5							
ALKALINITY FILTRATE (Pf / Mf)				0.05		1.00							
CHLORIDE (mg/L)				0.05		1.10							
TOTAL HARDNESS AS CALCIUM (mg/L)				6,000		5,800							
SULPHITE (mg/L)				120		120							
K+ (mg/L)													
KCl (% by Wt.)				1,050		1,050							
PHPA (ppb)				0.2		0.2							

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME	754	Centrifuge		Desander	2	Shaker #1	3 x 210	24
Premix (recirc from sump)		Desilter		+ FLUID RECEIVED		Degasser	Poorbo	Desilter	12	Shaker #2	3 x 210	24
Drill Water		Downhole	69	- FLUID LOST	89	Overflow (ppg) Underflow (ppg) Output (Gal/Min.)						
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE								
Other (eg Diesel)		Other	20			Desander		0				
TOTAL RECEIVED		TOTAL LOST	89	FINAL VOLUME	665	Desilter		0				

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC PAC R	\$ 155.20	59		3	56	\$ 465.60		%	PPB	Jet Velocity	373	
Barite	\$ 10.85	160		56	104	\$ 607.60	High Grav solids	6.6	96.27	Impact force	821	
							Total LGS	7.5	70.8	HHP	310	
							Bentonite	0.0	0.0	HSI	5.5	
							Drilled Solids	7.5	68.0	Bit Press Loss	1376	
							Salt	0.3	3.4	CSG Seat Frac Press	500 psi	
							n @ 2130 Hrs	0.43		Equiv. Mud Wt.	14.20 ppg	
							K @ 2130 Hrs	12.61		ECD	11.42 ppg	
										Max Pressure @ Shoe :	311 psi	

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DAILY COST				CUMULATIVE COST			
\$1,073.20				\$51,213.30			

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same.