



DRILLING FLUID REPORT

Report #	20	Date :	20-Jun-2007
Rig No	11	Spud :	1-Jun-2007
Depth	1556	to	1594
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	
8.50	Reed-TD51AP					15	M		336	405	5.5 X 7	Inches
DRILL PIPE SIZE		TYPE	Length		9 5/8	INTERMEDIATE SET @	1870	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF
4.5		16.6 #	1391	Mtrs		570	M		865		GD-PZ-7	97 %
DRILL PIPE SIZE		TYPE	Length		PRODUCTION. o LINER Set @			ft	IN STORAGE		BBL/STK	STK / MIN
4.50		HW	37	Mtrs					124		0.0499	170
DRILL COLLAR SIZE (")		Length			MUD TYPE						BBL/MIN	GAL / MIN
6.25		8.00	166	Mtrs	Gel/KCl/Polymer						8.23	346
											ANN VEL.	DP
											(ft/min)	DCs
											255	1026
												Tur

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)				1100		2000		Plastic Vis	ALAP	Yield Point	4.0 - 10.0	pH			
FLOWLINE TEMPERATURE				1,575		1,593		KCl	1.0 - 2.0%	PHPA		Sulphites			
WEIGHT				48		50		OBSERVATIONS Maintain volume with sump water Biocide used to prevent bacterial degradation Running desilter and desander, cracking sand trap to keep MW at 9.4ppg Barite used for heavy weight pill							
FUNNEL VISCOSITY (sec/qt) API @				9.40		1.128						9.45		1.134	
PLASTIC VISCOSITY cP @				38		38									
YIELD POINT (lb/100ft ²)				12		12									
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min				13		14									
RHEOLOGY θ 600 / θ 300				49		611									
RHEOLOGY θ 200 / θ 100				37		25						38		26	
RHEOLOGY θ 6 / θ 3				20		13						20		14	
FILTRATE API (cc's/30 min)				3		3						5		5	
HPHT FILTRATE (cc's/30 min) @				9.6		10.0									
CAKE THICKNESS API : HPHT (32nd in)				1		1									
SOLIDS CONTENT (% by Volume)				7.1		7.5									
LIQUID CONTENT (% by Volume) OIL/WATER				92.9		92.5									
SAND CONTENT (% by Vol.)				tr		tr									
METHYLENE BLUE CAPACITY (ppb equiv.)				7.5		7.5									
pH				9.5		9.5									
ALKALINITY MUD (Pm)															
ALKALINITY FILTRATE (Pf / Mf)				0.17		1.00		0.18		1.10					
CHLORIDE (mg/L)				8,000		8,200									
TOTAL HARDNESS AS CALCIUM (mg/L)				80		100									
SULPHITE (mg/L)															
K+ (mg/L)				6,825		5,250									
KCl (% by Wt.)				1.3		1.0									
PHPA (ppb)															

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME		Centrifuge		Desander	2	20	Shaker #1	3 x 210
Premix (recirc from sump)		Desilter		788		Degasser	Poorbo	Desilter	12	20	Shaker #2	3 x 210
Drill Water		Downhole		+ FLUID RECEIVED								
Direct Recirc Sump		Dumped		220								
Other (eg Diesel)		Other		- FLUID LOST								
				143								
				+ FLUID IN STORAGE								
				124								
TOTAL RECEIVED		TOTAL LOST		FINAL VOLUME		Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)		
220		143		989		Desander		10.2		0.50		
						Desilter		10.3		0.50		

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
AMC Biocide G		\$ 134.40	10		1	9	\$ 134.40	%	PPB	Jet Velocity	
Baryte		\$ 10.85	682		25	657	\$ 271.25	High Grav solids	0.1	1.14	Impact force
Caustic Soda		\$ 51.40	14		1	13	\$ 51.40	Total LGS	7.5	70.7	HHP
								Bentonite	0.0	0.0	HSI
								Drilled Solids	7.5	67.9	Bit Press Loss
								Salt	0.5	4.7	CSG Seat Frac Press
								n @ 2000 Hrs	0.55		Equiv. Mud Wt.
								K @ 2000 Hrs	4.38		ECD
											Max Pressure @ Shoe :
											462 psi

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME		Centrifuge		Desander	2	20	Shaker #1	3 x 210
Premix (recirc from sump)		Desilter		788		Degasser	Poorbo	Desilter	12	20	Shaker #2	3 x 210
Drill Water		Downhole		+ FLUID RECEIVED								
Direct Recirc Sump		Dumped		220								
Other (eg Diesel)		Other		- FLUID LOST								
				143								
				+ FLUID IN STORAGE								
				124								
TOTAL RECEIVED		TOTAL LOST		FINAL VOLUME		Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)		
220		143		989		Desander		10.2		0.50		
						Desilter		10.3		0.50		

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME		Centrifuge		Desander	2	20	Shaker #1	3 x 210
Premix (recirc from sump)		Desilter		788		Degasser	Poorbo	Desilter	12	20	Shaker #2	3 x 210
Drill Water		Downhole		+ FLUID RECEIVED								
Direct Recirc Sump		Dumped		220								
Other (eg Diesel)		Other		- FLUID LOST								
				143								
				+ FLUID IN STORAGE								
				124								
TOTAL RECEIVED		TOTAL LOST		FINAL VOLUME		Overflow (ppg)		Underflow (ppg)		Output (Gal/Min.)		
220		143		989		Desander		10.2		0.50		
						Desilter		10.3		0.50		

RMN ENGINEER S Alphonso				CITY Adelaide Office				TELEPHONE 08 8338 7266			
--------------------------------	--	--	--	-----------------------------	--	--	--	-------------------------------	--	--	--

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.