



DRILLING FLUID REPORT

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

OPERATOR Petro Tech Pty Ltd	CONTRACTOR Century Drilling Limited
REPORT FOR Lou DeVattimo	REPORT FOR Sam Alcazar
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	Length	Mtrs	16	SURFACE SET @	31	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
SIZE 3.5	15.5 #				9	M			250	5.5	X	7	psi
DRILL PIPE SIZE	TYPE	Length	Mtrs	INTERMEDIATE SET @		ft		TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)	
SIZE 3.50	HW			LINER Set @		M		250		GD- PZ-7	97	%	#DIV/0!
DRILL PIPE SIZE	TYPE	Length	Mtrs	PRODUCTION. o LINER Set @		ft		IN STORAGE		BBL/STK	STK /MIN	TOTAL CIRC. TIME (min)	
SIZE 3.50	HW					M				0.0514		#DIV/0!	
DRILL COLLAR SIZE (")	Length	Mtrs		MUD TYPE						BBL/MIN	GAL / MIN	ANN VEL. (ft/min)	DP DCs
4.50	6.50			Gel Spud Mud									

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Suction		Mud Weight	8.6 - 9.2	API Filtrate	NC	HPHT Filtrate	--
DEPTH (ft) - (m)	Metres	2200		Plastic Vis	ALAP	Yield Point	15-30	pH	9.0-10.0
FLOWLINE TEMPERATURE	⁰ C / ⁰ F			KCl	N/A	PHPA	--	Sulphites	--
WEIGHT	ppg / SG	8.60	1.032	OBSERVATIONS					
FUNNEL VISCOSITY (sec/qt) API @	⁰ C	43		Mixed 250bbls of thick gel spud mud in the premix and suction tanks.					
PLASTIC VISCOSITY cP @	⁰ C			Increased pH to 9.5 using a can of Caustic.					
YIELD POINT (lb/100ft ²)				Water filled into the settling tanks as a shortened system will be used initially and trough lined straight to the suction/premix tank.					
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min				Drill water/make up water for spud sourced from a nearby water bore and had the following properties:					
RHEOLOGY θ 600 / θ 300				pH@8, Pf/Mf: 0/0.52, Chlorides: 1500mg/l, Hardness: 160mg/l.					
RHEOLOGY θ 200 / θ 100				OPERATIONS SUMMARY					
RHEOLOGY θ 6 / θ 3				Rig Up to spud Boola Boola#2 operations					
FILTRATE API (cc's/30 min)				Mousehole and rat hole drilled with water					
HPHT FILTRATE (cc's/30 min) @	⁰ F								
CAKE THICKNESS API : HPHT (32nd in)									
SOLIDS CONTENT (% by Volume)	#DIV/0!	1.8							
LIQUID CONTENT (% by Volume) OIL/WATER			98.2						
SAND CONTENT (% by Vol.)									
METHYLENE BLUE CAPACITY (ppb equiv.)									
pH		9.0							
ALKALINITY MUD (Pm)									
ALKALINITY FILTRATE (Pf / Mf)		0.10	0.52						
CHLORIDE (mg/L)		1,500							
TOTAL HARDNESS AS CALCIUM (mg/L)		160							
SULPHITE (mg/L)									
K+ (mg/L)									
KCl (% by Wt.)									
PHPA (ppb)									

Mud Accounting (bbls)				Solids Control Equipment							
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs
Premix (drill water)	250	Desander		INITIAL VOLUME	0	Centrifuge		Desander	2	Shaker #1	3 x 110
Premix (recirc from sump)		Desilter				Degasser	Drlico	Desilter	8	Shaker #2	-----
Drill Water		Downhole		+ FLUID RECEIVED	250						
Direct Recirc Sump		Dumped		- FLUID LOST							
Other (eg Diesel)		Other		+ FLUID IN STORAGE							
TOTAL RECEIVED	250	TOTAL LOST		FINAL VOLUME	250	Desander		0			
						Desilter		0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data	
Aus-Gel	\$ 11.65	504		84	420	\$ 978.60	%	PPB	Jet Velocity	
Caustic Soda	\$ 51.40	32		1	31	\$ 51.40	Total LGS	1.8	16.9	Impact force
							Bentonite	-0.2	-2.0	HHP
							Drilled Solids	2.0	18.3	HSI #DIV/0!
							Salt	0.1	0.9	Bit Press Loss
							n @ 2200 Hrs			CSG Seat Frac Press 600 psi
							K @ 2200 Hrs			Equiv. Mud Wt. 15.00 ppg
										ECD
										Max Pressure @ Shoe :
							DAILY COST		CUMULATIVE COST	
							\$1,030.00		\$1,030.00	

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