



DRILLING FLUID REPORT

Report #	37	Date :	14-Oct-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3169	to	3182
			Metres

OPERATOR BEACH Petroleum LTD				CONTRACTOR ENSIGN Int'l Energy SVCs					
REPORT FOR Brian MARRIOTT - Scott HEALEY				REPORT FOR Andy BAKER					
WELL NAME AND No GLENAIRE # 1 ST1				FIELD PEP 160		LOCATION OTWAY Basin		STATE VICTORIA	
DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
BIT SIZE 6.00	TYPE Smith XR+	24	24	24	13 3/8 SURFACE SET @ 997 ft 304 M	HOLE 330	PITS 440	PUMP SIZE 5 X 8.5 Inches	CIRCULATION PRESS (PSI) 3000 psi
DRILL PIPE SIZE 3.5	TYPE 15.5 #	Length 2935 Mtrs	9 5/8 INTERMEDIATE SET @ 4107 ft 1252 M		TOTAL CIRCULATING VOL. 770		PUMP MODEL 3 x NAT 8-P80	ASSUMED EFF 97 %	BOTTOMS UP (min) 45 min
DRILL PIPE SIZE 3.50	TYPE HW	Length 86 Mtrs	7 PRODUCTION/ LINER Set @ 9839 ft 2999 M		IN STORAGE 120		BBL/STK@ 100% 0.0516	STK / MIN 118	TOTAL CIRC. TIME (min) 151 min
DRILL COLLAR SIZE (") 4.75	Length 161 Mtrs	MUD TYPE 5% KCI-PHPA-POLYMER				BBL/MIN 5.91	GAL / MIN 248	ANN VEL. (ft/min) 256	DP DCs 452

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Below shkrs	Below shkrs	Mud Weight	>=10.5	API Filtrate	6 - 8	HPHT Filtrate	NA
DEPTH (ft) - (m)	Metres		11.00	Plastic Vis	ALAP	Yield Point	8 - 15	pH	9.0 - 9.5
FLOWLINE TEMPERATURE	⁰ C / ⁰ F		3,182	KCI	>5%	PHPA	0.75 - 1.5	Sulphites	80 - 120
WEIGHT	ppg / SG		51	OBSERVATIONS Increasing mud weight due to formation flowing slightly. Using salt at present.					
FUNNEL VISCOSITY (sec/qt) API @	51 ⁰ C		10.55						
PLASTIC VISCOSITY cP @	55 ⁰ C		1.267						
YIELD POINT (lb/100ft ²)			36						
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min			10						
RHEOLOGY q 600 / q 300			5						
RHEOLOGY q 200 / q 100			1						
RHEOLOGY q 6 / q 3			1						
FILTRATE API (cc's/30 min)			6.0						
HPHT FILTRATE (cc's/30 min) @	⁰ F		1						
CAKE THICKNESS API : HPHT (32nd in)			--	OPERATIONS SUMMARY Drill / slide to 3182 m. Circulate bottoms up. Pump slug and POH. Flow check at 2991 m - slight flow. POH - 2846 m - Flow Check - slight flow. POH - 2729 m - Flow Check - slight flow. RIH to bottom - no fill. Circulate bottoms up (4000 units gas plus oil show) and weight up to 10.5+ ppg. Flow check - hole ok. POH. Flow check every 15 stands. Change bit and service mwd tools. RIH.					
SOLIDS CONTENT (% by Volume)			7.8						
LIQUID CONTENT (% by Volume) OIL/WATER			92.2						
SAND CONTENT (% by Vol.)			Tr						
METHYLENE BLUE CAPACITY (ppb equiv.)			12.0						
pH			9.5						
ALKALINITY MUD (Pm)			0.18						
ALKALINITY FILTRATE (Pf / Mf)			0.15						
CHLORIDE (mg/L)			0.70						
TOTAL HARDNESS AS CALCIUM (mg/L)			159,000						
SULPHITE (mg/L)			80						
K+ (mg/L)			120						
KCI (% by Wt.)			52,500						
PHPA (ppb)			10.0						
			0.83						

Mud Accounting (bbls)							Solids Control Equipment							
FLUID BUILT & RECEIVED			FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	FLC 514	Size	Hrs	
Premix (drill water)			Desander		INITIAL VOLUME	914	Centrifuge	DE1000	7	Desander		Shaker #1	4 x 310	12
Premix (recirc from sump)			Desilter				Degasser		9	Desilter		Shaker #2	4 x 310	12
Drill Water			Downhole	9	+ FLUID RECEIVED									
Direct Recirc Sump			Dumped	10	- FLUID LOST	24								
Other (eg Diesel)			Centrifuge	5	FLUID in STORAGE	120								
TOTAL RECEIVED			TOTAL LOST	24	FINAL VOLUME	890	Centrifuge		10.3	Underflow (ppg)	15.6	Output (Gal/Min.)	0.50	
Product	Price	Start	Received	Used	Close	Cost	Solids Analysis				Bit Hydraulics & Pressure Data			
Barite	\$ 8.20	530	160	66	624	\$ 541.20		%	PPB	Jet Velocity	60			
Salt	\$ 8.65	696	816	312	1200	\$ 2,698.80	High Grav solids	0.8	11.21	Impact force	81			
							Total LGS	8.7	82.2	HHP	5			
							Bentonite equiv.	0.4	3.8	HSI	0.2			
							Drilled Solids	8.3	75.2	Bit Press Loss	34			
							Salt	9.9	92.1	CSG Seat Frac Press	2200 psi			
							n @ 11.00 Hrs	0.74		Equiv. Mud Wt.	13.80 ppg			
							K @ 11.00 Hrs	0.78		ECD	11.45 ppg			
										Max Pressure @ Shoe :	1663 psi			
							DAILY COST				CUMULATIVE COST			
							\$3,240.00				\$110,978.56			

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