



DRILLING FLUID REPORT

Report #	42	Date :	19-Oct-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3418	to	3507
			Metres

OPERATOR BEACH Petroleum LTD	CONTRACTOR ENSIGN Int'l Energy SVCs
REPORT FOR Brian Marriott - Scott Healey - Ray Ell	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 Hyc DSX516M	15	15	15	15	13 3/8 SURFACE SET @	997 ft	HOLE 362	PITS 453	PUMP SIZE 5 X 8.5 Inches		CIRCULATION PRESS (PSI) 3130 psi	
DRILL PIPE SIZE 3.5	TYPE 15.5 #	Length 3260 Mtrs		9 5/8 INTERMEDIATE SET @	4107 ft	TOTAL CIRCULATING VOL. 944		PUMP MODEL 3 x NAT 8-P80		ASSUMED EFF 97 %		BOTTOMS UP (min) 52 min	
DRILL PIPE SIZE 3.50	TYPE HW	Length 86 Mtrs		7 PRODUCTION. o LINER Set @	9839 ft	IN STORAGE 129		BBL/STK 0.0516		STK / MIN 114		TOTAL CIRC. TIME (min) 165 min	
DRILL COLLAR SIZE (") 4.75	Length 161 Mtrs			MUD TYPE 5% KCI-PHPA-POLYMER				BBL/MIN 5.71		GAL / MIN 240		ANN VEL. DP (ft/min) DCs 247 Tur 437 Tur	

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Below shkrs	Below shkrs	Mud Weight	11.2 - 11.4	API Filtrate	6 - 8	HPHT Filtrate	NA
DEPTH (ft) - (m)	Metres		16.00	Plastic Vis	ALAP	Yield Point	8 - 15	pH	9.0 - 9.5
FLOWLINE TEMPERATURE	°C / °F		3,507	KCI	>5%	PHPA	0.75 - 1.5	Sulphites	80 - 120
WEIGHT	ppg / SG		11.30	OBSERVATIONS Rapid losses to hole occurred after drilling a sand at 3335 m. Losses of 20 bbl / hour were initially recorded. Losses almost self healed, perhaps with aid of some Kwikseal fine. Losses were ongoing then throughout day, albeit at far lower rates that are presently of little concern. A weighted slug was spotted in casing at 2000 m to give an equivalent mud weight at 3192 m of 13.65 ppg - the weight predicted to prevent gas from trickling into the wellbore. Received truckload of barite and KCI this evening. Note that Volume Summary is up until 21.00 hrs, and assumes pipe in hole.					
FUNNEL VISCOSITY (sec/qt) API @	°C		35						
PLASTIC VISCOSITY cP @	55 °C		10						
YIELD POINT (lb/100ft ²)			9						
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min			1 2						
RHEOLOGY q 600 / q 300			29 19						
RHEOLOGY q 200 / q 100			15 10						
RHEOLOGY q 6 / q 3			2 1						
FILTRATE API (cc's/30 min)			5.2						
HPHT FILTRATE (cc's/30 min) @	°F								

LIQUID CONTENT (% by Volume) OIL/WATER		SAND CONTENT (% by Vol.)		METHYLENE BLUE CAPACITY (ppb equiv.)		pH		ALKALINITY MUD (Pm)		ALKALINITY FILTRATE (Pf / Mf)		CHLORIDE (mg/L)		TOTAL HARDNESS AS CALCIUM (mg/L)		SULPHITE (mg/L)		K+ (mg/L)		KCI (% by Wt.)		PHPA (ppb)		
			90.7		Tr		9.0				0.14	0.82		182,000		160		100		40,688		7.8		0.69

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME	981	Centrifuge	2.5	Desander		Shaker #1	4 x 310	18
Premix (recirc from sump)	100	Desilter		+ FLUID RECEIVED	100	Degasser		Desilter		Shaker #2	4 x 310	18
Drill Water		Downhole	126	- FLUID LOST	137							
Direct Recirc Sump		Dumped	10	+ FLUID IN STORAGE	129							
Other (eg Diesel)		Centrifuge	2									
TOTAL RECEIVED	100	TOTAL LOST	137	FINAL VOLUME	1,073							
						Overflow (ppg)	10.4	Underflow (ppg)	20.9	Output (Gal/Min.)	0.48	
						Desilter			0			

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC Biocide G	\$ 185.35	5		1	4	\$ 185.35	%	PPB	Jet Velocity	89	
AMC PHPA	\$ 118.90	36		2	34	\$ 237.80	High Grav solids	5.7	83.45	Impact force	125
Baryte	\$ 8.20	784	800	304	1280	\$ 2,492.80	Total LGS	3.6	33.9	HHP	11
Caustic Soda	\$ 48.90	20		1	19	\$ 48.90	Bentonite	0.7	6.2	HSI	0.4
KWIKSEAL - F	\$ 56.39	80		2	78	\$ 112.78	Drilled Solids	2.9	26.5	Bit Press Loss	80
Potassium Chloride	\$ 18.95	126	168	84	210	\$ 1,591.80	Salt	11.2	105.4	CSG Seat Frac Press	2200 psi
Xanthan Gum	\$ 359.25	66		3	63	\$ 1,077.75	n @ 16.00 Hrs	0.61		Equiv. Mud Wt.	13.80 ppg
							K @ 16.00 Hrs	2.17		ECD	11.80 ppg
										Max Pressure @ Shoe :	1279 psi

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