



DRILLING FLUID REPORT

Report #	39	Date :	16-Oct-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3207	to	3267
			Metres

OPERATOR BEACH Petroleum LTD	CONTRACTOR ENSIGN Int'l Energy SVCs
REPORT FOR Brian MARRIOTT - Scott HEALEY - Ray E	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 338	PITS 440	PUMP SIZE 5 X 8.5 Inches		CIRCULATION PRESS (PSI) 3080 psi	
DRILL PIPE SIZE 3.5	TYPE 15.5 #	Length 3020 Mtrs		9 5/8 INTERMEDIATE SET @	4107 ft	TOTAL CIRCULATING VOL. 1028		PUMP MODEL 3 x NAT 8-P80		ASSUMED EFF 97 %		BOTTOMS UP (min) 47 min	
DRILL PIPE SIZE 3.50	TYPE HW	Length 86 Mtrs		7 PRODUCTION. o LINER Set @	9839 ft	IN STORAGE 250		BBL/STK 0.0516		STK / MIN 118		TOTAL CIRC. TIME (min) 174 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	Tur 452 Tur

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Below shkrs	Below shkrs	Mud Weight	11.0 - 11.2	API Filtrate	6 - 8	HPHT Filtrate	NA
DEPTH (ft) - (m)	Metres	3,231	3,267	Plastic Vis	ALAP	Yield Point	8 - 15	pH	9.0 - 9.5
FLOWLINE TEMPERATURE	°C / °F	49	51	KCI	>5%	PHPA	0.75 - 1.5	Sulphites	80 - 120

WEIGHT		YIELD POINT		OBSERVATIONS			
FUNNEL VISCOSITY (sec/qt) API @	°C	36	34	<p>Maintaining mud weight in range 11.0 - 11.2 ppg with barite now.</p> <p>Have mixed extra premixes throughout day to build volume in active system and extra has been stored in pill and premix tanks. This is in case extra volume is required in a hurry.</p> <p>Mud properties are remaining quite stable. Extra Xanthan gum has been added to slightly boost yield point, as it had dropped to 4 lb/100ft². Yield point being run in a range that is a compromise between maintaining minimal friction losses and reasonable suspension characteristics for the barite.</p> <p>A further 800 sacks barite and 168 sacks KCI delivered just after midnight, but have been added to the inventory for todays report.</p>			
PLASTIC VISCOSITY cP @	55 °C	7	8				
GEL STRENGTHS (lb/100ft ²) 10 sec/10 min		1 2	1 1				
RHEOLOGY q 600 / q 300		18 11	22 14				
RHEOLOGY q 200 / q 100		8 5	11 7				
RHEOLOGY q 6 / q 3		1 0.5	1 1				
FILTRATE API (cc's/30 min)		4.6	4.6				
HPHT FILTRATE (cc's/30 min) @	°F						
CAKE THICKNESS API : HPHT (32nd in)		2	2				
SOLIDS CONTENT (% by Volume)		9.7	8.6				

LIQUID CONTENT (% by Volume) OIL/WATER		OPERATIONS SUMMARY	
SAND CONTENT (% by Vol.)		0.10	0.10
METHYLENE BLUE CAPACITY (ppb equiv.)		12.0	12.0
pH		9.0	9.0
ALKALINITY MUD (Pm)		0.15	0.16
ALKALINITY FILTRATE (Pf / Mf)		0.12 0.65	0.14 0.70
CHLORIDE (mg/L)		156,000	177,000
TOTAL HARDNESS AS CALCIUM (mg/L)		100	80
SULPHITE (mg/L)		120	120
K+ (mg/L)		44,625	39,375
KCI (% by Wt.)		8.5	7.5
PHPA (ppb)		0.72	0.70

Mud Accounting (bbls)				Solids Control Equipment																
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs									
Premix (drill water)		Desander		INITIAL VOLUME	692	Centrifuge		Desander		Shaker #1	4 x 310	21								
Premix (recirc from sump)	360	Desilter		+ FLUID RECEIVED	360	Degasser		Desilter		Shaker #2	4 x 310	21								
Drill Water		Downhole	24	- FLUID LOST	24	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Overflow (ppg)</td> <td>Underflow (ppg)</td> <td>Output (Gal/Min.)</td> </tr> <tr> <td>Centrifuge</td> <td>0</td> <td></td> </tr> <tr> <td>Desilter</td> <td>0</td> <td></td> </tr> </table>						Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)	Centrifuge	0		Desilter	0	
Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)																		
Centrifuge	0																			
Desilter	0																			
Direct Recirc Sump		Dumped		+ FLUID IN STORAGE	250															
Other (eg Diesel)		Centrifuge		FINAL VOLUME	1,278															
TOTAL RECEIVED	360	TOTAL LOST	24																	

Product	Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
AMC Biocide G	\$ 185.35	9		3	6	\$ 556.05	%	PPB	Jet Velocity	92	
AMC Defoamer	\$ 146.40	5		1	4	\$ 146.40	High Grav solids	4.8	70.39	Impact force	131
AMC PAC-L	\$ 159.98	48		6	42	\$ 959.88	Total LGS	3.8	36.1	HHP	12
AMC PHPA	\$ 118.90	41		3	38	\$ 356.70	Bentonite	1.0	9.3	HSI	0.4
Baryte	\$ 8.20	1481	800	981	1300	\$ 8,044.20	Drilled Solids	2.8	25.4	Bit Press Loss	84
Caustic Soda	\$ 48.90	24		2	22	\$ 97.80	Salt	10.9	102.5	CSG Seat Frac Press	2200 psi
Potassium Chloride	\$ 18.95	195	168	153	210	\$ 2,899.35	n @ 24.00 Hrs	0.65		Equiv. Mud Wt.	13.80 ppg
Salt	\$ 8.65	222		174	48	\$ 1,505.10	K @ 24.00 Hrs	1.23		ECD	12.38 ppg
Sodium Sulphite	\$ 33.30	41		3	38	\$ 99.90				Max Pressure @ Shoe :	1381 psi
Xanthan Gum	\$ 359.25	75		7	68	\$ 2,514.75					
							DAILY COST		CUMULATIVE COST		
							\$17,180.13		\$137,462.99		

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