DRILLING FLUID REPORT

Report #	49	Date :	26-Oct-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3700 to 3700		Metres

OPERATOR	BEACH Petroleum LTD	CONTRACTOR	ENSIGN Int'l Energy SVCs
REPORT FOR	Brian Marriott	REPORT FOR	Andy Baker
WELL NAME AND No	GLENAIRE # 1 ST1	FIELD / LOCATION / STATE	PEP 160 / OTWAY Basin / VICTORIA

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE	TYPE		18	18	18	13 3/8 SURFACE	997	ft	HOLE	PITS	PUMP SIZE		CIRCULATION	
6.00	Reed DSX111		18	18	18	SET @	304	M	380	475	5 X 8.5	Inches	PRESS (PSI)	psi
DRILL PIPE	TYPE	Length				9 5/8 INTERMEDIATE	4107	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS	
SIZE 3.5	15.5 #	3453 Mtrs				SET @	1252	M	885		3 x NAT 8-P80	97 %	UP (min)	min
DRILL PIPE	TYPE	Length				7 PRODUCTION. o	9839	ft	IN STORAGE		BBL/STK	STK / MIN	TOTAL CIRC.	
SIZE 3.50	HW	86 Mtrs				LINER Set @	2999	M	30		0.0516		TIME (min)	min
DRILL COLLAR SIZE (")		Length				MUD TYPE					BBL/MIN	GAL / MIN	ANN VEL. DP	Lam
4.75		161 Mtrs				5% KCI-PHPA-POLYMER							(ft/min) DCs	Lam

	MUD PROPERTIES	
SAMPLE FROM		Pit
TIME SAMPLE TAKEN		21.30
DEPTH (ft) - (m)		3,700
FLOWLINE TEMPERATURE	^{0}C / ^{0}F	
WEIGHT	ppg / SG	11.15 1.339
FUNNEL VISCOSITY (sec/qt) API @	^{0}C	41
PLASTIC VISCOSITY cP @	55 ^{0}C	13
YIELD POINT (lb/100ft^2)		14
GEL STRENGTHS (lb/100ft^2) 10 sec/10 min		2 6
RHEOLOGY q 600 / q 300		40 27
RHEOLOGY q 200 / q 100		21 14
RHEOLOGY q 6 / q 3		4 2
FILTRATE API (cc's/30 min)		6.2
HPHT FILTRATE (cc's/30 min) @	^{0}F	
CAKE THICKNESS API : HPHT (32nd in)		1
SOLIDS CONTENT (% by Volume)		8.8
LIQUID CONTENT (% by Volume) OIL/WATER		91.2
SAND CONTENT (% by Vol.)		Tr
METHYLENE BLUE CAPACITY (ppb equiv.)		6.5
pH		9.5
ALKALINITY MUD (Pm)		
ALKALINITY FILTRATE (Pf / Mf)		0.22 1.35
CHLORIDE (mg/L)		158,000
TOTAL HARDNESS AS CALCIUM (mg/L)		40
SULPHITE (mg/L)		120
K+ (mg/L)		42,000
KCl (% by Wt.)		8.0
PHPA (ppb)	0.79	0.79

MUD PROPERTY SPECIFICATIONS					
Mud Weight	11.1	API Filtrate	6 - 8	HPHT Filtrate	NA
Plastic Vis	ALAP	Yield Point	8 - 15	pH	9.0 - 9.5
KCl	>5%	PHPA	0.75 - 1.5	Sulphites	80 - 120

OBSERVATIONS

Minor losses to hole while logging.

OPERATIONS SUMMARY

POH.
Rig up and run logs - Run # 1 and # 2.
Rig down loggers.
Pressure test.
Make up bit and RIH.

Mud Accounting (bbls)

FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY	
Premix (drill water)		Desander		INITIAL VOLUME	915
Premix (recirc from sump)		Desilter			
Drill Water		Downhole	20	+ FLUID RECEIVED	
Direct Recirc Sump		Dumped	10	- FLUID LOST	30
Other (eg Diesel)		Other		+ FLUID IN STORAGE	30
TOTAL RECEIVED		TOTAL LOST	30	FINAL VOLUME	915

Solids Control Equipment

	Type	Hrs		Cones	Hrs		Size	Hrs
Centrifuge			Desander			Shaker #1	4 x 310	1
Degasser			Desilter			Shaker #2	4 x 310	1

	Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)
Desander		0	
Desilter		0	

Product	Price	Start	Received	Used	Close	Cost

Solids Analysis

	%	PPB
High Grav solids	6.7	98.61
Total LGS	2.1	19.6
Bentonite	0.6	5.0
Drilled Solids	1.5	13.8
Salt	9.7	91.5
n @ 21.30 Hrs	0.57	
K @ 21.30 Hrs	4.03	

Bit Hydraulics & Pressure Data

Jet Velocity	
Impact force	
HHP	
HSI	
Bit Press Loss	
CSG Seat Frac Press	2200 psi
Equiv. Mud Wt.	13.80 ppg
ECD	11.60 ppg
Max Pressure @ Shoe :	1356 psi

DAILY COST	CUMULATIVE COST
	$168,362.85

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