DRILLING FLUID REPORT

RMN drilling fluids

Report #	30	Date :	7-Aug-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3041 to 3041		Metres

OPERATOR	BEACH Petroleum LTD	CONTRACTOR	ENSIGN Int'l Energy SVCs
REPORT FOR	Barry BEETSON	REPORT FOR	David SHEERAN
WELL NAME AND No	GLENAIRE # 1	FIELD: PEP 160	LOCATION: OTWAY Basin / STATE: VICTORIA

DRILLING ASSEMBLY			JET SIZE			CASING			MUD VOLUME (BBL)		CIRCULATION DATA		
BIT SIZE	TYPE	20	20	20	13 3/8 SURFACE SET @	997	ft	HOLE	PITS	PUMP SIZE		CIRCULATION PRESS (PSI)	
6.00	Sec SDB036					304	M	324	378	5 X 8.5	Inches		psi
DRILL PIPE SIZE 3.5	TYPE 15.5 #	Length 2794 Mtrs			9 5/8 INTERMEDIATE SET @	4107	ft	TOTAL CIRCULATING VOL.		PUMP MODEL	ASSUMED EFF	BOTTOMS UP (min)	
						1252	M	702		3 x NAT 8-P80	97 %		min
DRILL PIPE SIZE 3.50	TYPE HW	Length 86 Mtrs			7 PRODUCTION/ LINER Set @	9839	ft	IN STORAGE		BBL/STK@ 100%	STK / MIN	TOTAL CIRC. TIME (min)	
						2999	M	110		0.0516			min
DRILL COLLAR SIZE (")		Length			MUD TYPE					BBL/MIN	GAL / MIN	ANN VEL. (ft/min) DP DCs	
2.88		161 Mtrs			5% KCl-PHPA-POLYMER								

	MUD PROPERTIES	
SAMPLE FROM	P/Suction	P/Suction
TIME SAMPLE TAKEN		15.30
DEPTH (ft) - (m) Metres		3,041
FLOWLINE TEMPERATURE ^{0}C ^{0}F		
WEIGHT ppg / SG		10.20 1.224
FUNNEL VISCOSITY (sec/qt) API @ ^{0}C		47
PLASTIC VISCOSITY cP @ 50 ^{0}C		13
YIELD POINT (lb/100ft^2)		9
GEL STRENGTHS (lb/100ft^2) 10 sec/10 min		2 8
RHEOLOGY q 600 / q 300		35 22
RHEOLOGY q 200 / q 100		16 10
RHEOLOGY q 6 / q 3		2 1
FILTRATE API (cc's/30 min)		7.2
HPHT FILTRATE (cc's/30 min) @ ^{0}F		
CAKE THICKNESS API : HPHT (32nd in)		1 --
SOLIDS CONTENT (% by Volume)		8.5
LIQUID CONTENT (% by Volume) OIL/WATER		91.5
SAND CONTENT (% by Vol.)		0.10
METHYLENE BLUE CAPACITY (ppb equiv.)		14.0
pH		11.0
ALKALINITY MUD (Pm)		0.50
ALKALINITY FILTRATE (Pf / Mf)		0.48 1.80
CHLORIDE (mg/L)		113,000
TOTAL HARDNESS AS CALCIUM (mg/L)		20
SULPHITE (mg/L)		120
K+ (mg/L)		76,125
KCl (% by Wt.)		14.5
PHPA (ppb)		0.90

MUD PROPERTY SPECIFICATIONS					
Mud Weight	10.2	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

No product used - heavy weight pill pumped used remnants of previous slug.

OPERATIONS SUMMARY

Pump slug and POH.
Wait on MWD tools.
Make up bit and mud motor and MWD BHA.
RIH.
Test MWD.
Break circulation regularly while RIH.
Tag cement.

Mud Accounting (bbls)

FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY	
Premix (drill water)		Desander		INITIAL VOLUME	822
Premix (recirc from sump)		Desilter			
Drill Water		Downhole	10	+ FLUID RECEIVED	
Direct Recirc Sump		Dumped		- FLUID LOST	10
Other (eg Diesel)		Centrifuge		FLUID in STORAGE	110
TOTAL RECEIVED		TOTAL LOST	10	FINAL VOLUME	812

Solids Control Equipment

	Type	Hrs		Cones	Hrs	FLC 514	Size	Hrs
Centrifuge	DE1000		Desander			Shaker #1	4 x 310	
Degasser			Desilter			Shaker #2	4 x 310	

	Overflow (ppg)	Underflow (ppg)	Output (Gal/Min.)
Centrifuge		0	

Product	Price	Start	Received	Used	Close	Cost

Solids Analysis	%	PPB
High Grav solids	1.0	14.10
Total LGS	7.6	71.9
Bentonite equiv.	0.8	7.3
Drilled Solids	6.8	61.8
Salt	7.2	65.4
n @ 15.30 Hrs	0.67	
K @ 15.30 Hrs	1.73	

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	
Max Pressure @ Shoe :	1842 psi

DAILY COST	CUMULATIVE COST
	$99,898.23

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