



# DRILLING FLUID REPORT

Report #	38	Date :	15-Oct-2006
Rig No	32	Spud :	8-Sep-2006
Depth	3182	to	3207
			Metres

<b>OPERATOR</b> BEACH Petroleum LTD		<b>CONTRACTOR</b> ENSIGN Int'l Energy SVCs	
<b>REPORT FOR</b> Brian MARRIOTT - Scott HEALEY		<b>REPORT FOR</b> Andy BAKER	
<b>WELL NAME AND No</b> GLENAIRE # 1 ST1		<b>FIELD</b> PEP 160	<b>LOCATION</b> OTWAY Basin
		<b>STATE</b> VICTORIA	

DRILLING ASSEMBLY		JET SIZE		CASING		MUD VOLUME (BBL)		CIRCULATION DATA								
BIT SIZE	TYPE	15	15	15	13 3/8 SURFACE	997	ft	HOLE	PITS	PUMP SIZE		CIRCULATION				
6.00	Hyc DSX516M	15	15		SET @	304	M	332	330	5	X	8.5	Inches	PRESS (PSI)	3100	psi
DRILL PIPE	TYPE	Length		9 5/8 INTERMEDIATE	4107	ft	TOTAL CIRCULATING VOL.	PUMP MODEL		ASSUMED EFF		BOTTOMS				
SIZE 3.5	15.5 #	2960 Mtrs		SET @	1252	M	692	3 x NAT 8-P80		97 %		UP (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		118		TIME (min)				
DRILL COLLAR SIZE (")	Length			MUD TYPE				BBL/MIN		GAL / MIN		ANN VEL. DP				
4.75	161 Mtrs			5% KCI-PHPA-POLYMER				5.91		248		256 Tur				
												452 Tur				

SAMPLE FROM		MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS					
TIME SAMPLE TAKEN		Below shkrs	Below shkrs	Mud Weight	>=10.8	API Filtrate	6 - 8	HPHT Filtrate	NA
DEPTH (ft) - (m)		3,207		Plastic Vis	ALAP	Yield Point	8 - 15	pH	9.0 - 9.5
FLOWLINE TEMPERATURE		50		KCI	>5%	PHPA	0.75 - 1.5	Sulphites	80 - 120

WEIGHT		OBSERVATIONS	
FUNNEL VISCOSITY (sec/qt) API @		Weighted mud up to salt saturation point. An approximate volume of 60 bbls was expected to result from the addition of the salt that was made.	
PLASTIC VISCOSITY cP @		Once saturation point was reached, barite additions were made.	
YIELD POINT (lb/100ft <sup>2</sup> )		Lost mud on wet trip and while cleaning out mud tanks of settled salt.	
GEL STRENGTHS (lb/100ft <sup>2</sup> ) 10 sec/10 min		At 24.00 hours, a 120 bbl premix of weighted mud was being built. Usage will be on tomorrows report.	
RHEOLOGY q 600 / q 300			
RHEOLOGY q 200 / q 100			
RHEOLOGY q 6 / q 3			
FILTRATE API (cc's/30 min)			
HPHT FILTRATE (cc's/30 min) @			
CAKE THICKNESS API : HPHT (32nd in)			
SOLIDS CONTENT (% by Volume)			
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)			

OPERATIONS SUMMARY	
RIH to 1948 m. Break circulation. Flow check - slight flow and gain 1/2 bbl. Mud aerated. Continue RIH to shoe. Circ btms up - 600 units gas. RIH 3154 m. Wash to bottom. Drill - 3207 m. (3445 units gas from bottoms up at 3154 m.) Gas peak at 4000 units with oil cut mud over shakers. Circulate and weigh up from 10.6 - 10.8+. Shut in well and circulate through choke. Continue weighing up. Open annular - well static. Attempt to circulate - no go. Attempt to unblock string. No go. POH to shoe. Attempt to unblock string - no go. POH wet. Found salt packed off from 2nd stand heavy weight pipe. Break off stands and clear blockages. Pick up mud motor and make up bit. RIH.	

Mud Accounting (bbls)				Solids Control Equipment								
FLUID BUILT & RECEIVED		FLUID DISPOSED		SUMMARY		Type	Hrs	Cones	Hrs	Size	Hrs	
Premix (drill water)		Desander		INITIAL VOLUME	890	Centrifuge	2	Desander		Shaker #1	4 x 310	12
Premix (recirc from sump)		Desilter				Degasser		Desilter		Shaker #2	4 x 310	12
Drill Water		Downhole	0	+ FLUID RECEIVED								
Direct Recirc Sump		Dumped	196	- FLUID LOST	198							
Other (eg Diesel)		Centrifuge	1	+ FLUID IN STORAGE	30							
TOTAL RECEIVED		TOTAL LOST	198	FINAL VOLUME	722	Overflow (ppg)	10.5	Underflow (ppg)	16.8	Output (Gal/Min.)	0.50	
						Desilter		0				

Product		Price	Start	Received	Used	Close	Cost	Solids Analysis		Bit Hydraulics & Pressure Data		
Baryte		\$ 8.20	624	960	103	1481	\$ 844.60	%	PPB	Jet Velocity	92	
Salt		\$ 8.65	1200		978	222	\$ 8,459.70	High Grav solids	1.9	27.93	Impact force	128
								Total LGS	7.5	70.6	HHP	12
								Bentonite	0.7	6.3	HSI	0.4
								Drilled Solids	6.8	61.5	Bit Press Loss	83
								Salt	11.4	106.0	CSG Seat Frac Press	2200 psi
								n @ 12.00 Hrs	0.74		Equiv. Mud Wt.	13.80 ppg
								K @ 12.00 Hrs	0.62		ECD	11.71 ppg
											Max Pressure @ Shoe :	1509 psi
								<b>DAILY COST</b>		<b>CUMULATIVE COST</b>		
								<b>\$9,304.30</b>		<b>\$120,282.86</b>		

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