MI SWACO
A Schlumberger Company

WATER-BASED MUD REPORT No.4

Operator :	**University of Texas**	**Field/Area :**	Green Canyon	**Depth/TVD :**	8151 ft/8151 ft
Report For :	Tom Pettigrew	**Description :**	Block 955	**Date :**	**19-May-17**
Well Name :	OCS-G 30344 Hole H005	**Location :**	Offshore	**Spud Date :**	
Contractor/Rig:	Helix/Q4000	**Water Depth :**	6664	**Mud Type :**	WBM Other (M-I SWACO)
Report For :	David Cobb	**Log-It # :**		**Activity :**	Coring

DRILLING ASSEMBLY	CASING	MUD VOLUME (bbl)		CIRCULATION DATA		
7946 ft, 5.875 in Bit		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		295.6		Pump Liner x Stk	4.5x11.8in	4.5x11.8in
120 ft, 8.5 in Drill Collar		Total Circulating Volume		Pump Capacity	4.87 gal/stk	4.87 gal/stk
3 ft, 8.5 in Stabilizer		295.2		Pump stk/min	@100%	@100%
30 ft, 8.5 in Drill Collar		Depth Drilled Last 24 hr		Flow Rate	gal/min	
3 ft, 8.5 in Stabilizer		50 ft		Pump Pressure	psi	
Nozzles 5x20 / x 1/32"		Volume Drilled Last 24 hr		Bottoms Up	0 min/ 0 stk	
9.875in		4.97 bbl		Total Circulation	0 min/ 0stk	

MUD PROPERTIES

Sample From		9.5 Pad Mud	9.5 Hi Vis Sweeps		
FlowLine Temp	°F	80	80		
Depth/TVD	ft	8151 / 8151	8111 / 8111		
Mud Weight /Temp	lb/gal @ °F	9.5 @ 80	9.5 @ 80		
Funnel Viscosity	sec/qt	76	329		
Rheology Temp	°F	80	80		
R600/R300		43 / 28	48 / 36		
R200/R100		22 / 17	29 / 23		
R6/R3		7 / 6	16 / 14		
PV	cP	15	12		
YP	lbf/100ft²	13	24		
10s/10m/30m Gel		7 / 11 /	19 / 25 /		
API Fluid Loss	cc/30min	9.8			
HTHP Fluid Loss	cc/30min				
Cake APT/HT	1/32"	1 /			
Solids	%vol	7			
Oil/Water	%vol	0/93			
Sand	%vol	0.1			
MBT	lb/bbl				
pH / Temp		8.5 @ 80			
Alkal Mud (Pm)		0.4			
Pf/Mf		0.2 / 0.5			
Chlorides	mg/L	18000			
Hardness (Ca++)		2400			

PRODUCTS USED Last 24 hr

Products	Size	Amount
Drilling Fluids Supervisor		1.0
Drilling Fluids Supervisor		1.0

SOLIDS CONTROL EQUIPMENT Last 24 hr

Type	Model/Size	Hrs Used

MUD PROPERTY SPECS min-max		Actual
	-	
	-	
	-	

REMARKS AND TREATMENT

Rebuilt prehydrated Gel and sweeps as required. Adding Lime and PolyPlus and 16.0 ppg. mud to the 9.5 HI Vis Sweeps. Building Prehydrated Gel with Bulk Gel, Caustic Soda, and fresh water. Building 9.5 ppg. mud using the Hi Side Blender.

REMARKS

Performed core #4, #5, #6, #7 from 8,101'-8,141' using seawater and gel sweeps. Switched over to 9.5 ppg WBM and proceeded with core #8 from 8,141-8,151'.

TIME DISTRIBUTION Last 24 hrs		MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS			RHEOLOGY & HYDRAULICS	
Drilling	4	Water Added	43	NaCl	%vol / lb/bbl	0.84 / 9.75	n	
Coring Operations	10	Mud Received		KCl	%vol / lb/bbl	0 / 0	k	
Circulating / Hole C	3	Mud Returned		Low Gravity	% / lb/bbl	4.81 / 43.8	Tauy	
Rig Up / Tear Down	7	Other Subsurface	25	Bentonite	% / lb/bbl	0 / 0	Bit loss/%, psi/%	
		Other Subsurface	38	Drill Solids	% / lb/bbl	/	Bit HHP/HIS	
		Other Subsurface	82	Weight Material	% / lb/bbl	1.35 / 19.4	Jet Velocity, ft/s	
		Other Subsurface	23	Chemical Conc	lb/bbl		Va Pipe, ft/min	
				Inert/React			Va Collars, ft/min	
				Average SG Solids		2.9	CVa Pipe, ft/min	
							CVa Collars, ft/min	
							ECD at Shoe, lb/gal	
							ECD at TD, lb/gal	

M-I Engineer	Phone	email	Whse Phone	Rig Phone	Daily cost	Cumulative Cost
Begona Sanchez	281-942-4001	GLopez27@slb.com	985-303-6218	281-942-4001		
Karey Louviere	281-942-4001	klouviere@slb.com				