MI SWACO
A Schlumberger Company

WATER-BASED MUD REPORT No.7

Operator :	**University of Texas**	**Field/Area :**	Green Canyon	**Depth/TVD :**	8082 ft/8082 ft
Report For :	Tom Pettigrew	**Description :**	Block 955	**Date :**	**12-May-17**
Well Name :	OCS-G 30344 Hole H002	**Location :**	Offshore	**Spud Date :**	
Contractor/Rig:	Helix/Q4000	**Water Depth :**	6664	**Mud Type :**	WBM Other (M-I SWACO)
Report For :	David Cobb	**Log-It # :**	254627	**Activity :**	Coring

DRILLING ASSEMBLY	CASING	MUD VOLUME (bbl)		CIRCULATION DATA		
7881 ft, 5.875 in Drill Pipe		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		282.7	#N/A	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		#N/A		Pump stk/min	71@100%	@100%
30 ft, 8.5 in Drill Collar		Depth Drilled Last 24 hr		Flow Rate	346.00 gal/min	
3 ft, 8.5 in Stabilizer		54 ft		Pump Pressure	psi	
Nozzles 5x20 / x 1/32"		Volume Drilled Last 24 hr		Bottoms Up	9.88 min/ 701.21 stk	
9.875in		5.37 bbl		Total Circulation	0 min/ 0stk	

MUD PROPERTIES					
Sample From		Pad Mud @ 06:00	Sweeps @ 08:00	Pad Mud @ 15:30	Pad Mud @ 21:0
FlowLine Temp	°F				
Depth/TVD	ft	8028 / 8071	8062 / 8071	8071 / 8071	8082 / 8082
Mud Weight /Temp	lb/gal @ °F	10.5 @ 80	10.5 @ 81	10.5 @ 82	10.5 @ 80
Funnel Viscosity	sec/qt	79		79	80
Rheology Temp	°F	80	80	80	80
R600/R300		45 / 30	29 / 20	44 / 32	27 / 19
R200/R100		25 / 19	17 / 12	27 / 20	15 / 11
R6/R3		9 / 7	6 / 5	10 / 9	5 / 4
PV	cP	15	9	12	8
YP	lbf/100ft²	15	11	20	11
10s/10m/30m Gel		8 / 13 /	6 / 15 /	10 / 16 /	5 / 15 /
API Fluid Loss	cc/30min	9.8		7	10
HTHP Fluid Loss	cc/30min				
Cake APT/HT	1/32"	1		1	1
Solids	%vol	10		10	12
Oil/Water	%vol	0/90		0/90	0/88
Sand	%vol	0.1		0.1	0.1
MBT	lb/bbl	6.25		7.5	6.25
pH / Temp		8.5 @ 80		8.1 @ 80	8.2 @ 80
Alkal Mud (Pm)		0.4			
Pf/Mf		0.2 / 0.4		0.1 / 0.5	0.1 / 0.3
Chlorides	mg/L	17800		18000	17600
Hardness (Ca++)		2320		2400	2000

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. Checked calibration on pressurized and regular mud scales. Adding .25 ppb Lime and 2.5 gallons of PolyPlus and 16.0 ppg. mud to the HI Vis Sweeps. Building Prehydrated Gel with Bulk Gel, Caustic Soda, and fresh water. Building 10.5 ppg. mud using the Hi Side Blender.

REMARKS

Drilled to 8,082' with 10.5 ppg. mud, pumping 25 bbl 10.5 ppg HI Vis sweeps as needed to clean the hole. Rig up wireline in order to start coring operations. Finished with Core 1CS and working on Core 2CS.

TIME DISTRIBUTION Last 24 hrs		MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS			RHEOLOGY & HYDRAULICS	
Drilling	2.5	Water Added	16	NaCl	%vol / lb/bbl	0.8 / 9.33	n	
Circulating / Hole C	2	Mud Received		KCl	%vol / lb/bbl	0 / 0	k	
Rig Up / Tear Down	3	Mud Returned		Low Gravity	% / lb/bbl	3.04 / 27.69	Tauy	
Coring Operations	16.5	Formation - Circulatio	330	Bentonite	% / lb/bbl	0.65 / 5.96	Bit loss/%, psi/%	
		Other Subsurface	25	Drill Solids	% / lb/bbl	2.65 / 24.12	Bit HHP/HIS	
		Other Subsurface	271	Weight Material	% / lb/bbl	6.16 / 88.36	Jet Velocity, ft/s	
				Chemical Conc	lb/bbl		Va Pipe, ft/min	
				Inert/React		3.4	Va Collars, ft/min	
				Average SG Solids		3.6	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				