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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
CAUSTIC SODA	50 LB BG	1
DUO-VIS	25 KG BG	9
POLYPAC R	50 LB BG	10
MIXING CHARGE WBM	1 EA	2300
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	$15,527.68	$148,127.62
Karey Louviere	281-942-4001	klouviere@slb.com				

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Wellsite Daily Cost

Daily Report No. 7

Operator : University of Texas
Well Name : OCS-G 30344 Hole H002
Location: Offshore

Date : 5/12/2017
Report No: 7

	Daily	Cumulative Interval	Cumulative Well
Engineering Charges:		$1,800.00	$18,000.00
Chemical cost:	$13,727.68	$20,027.62	$130,127.62
Equipment:			
Screens:			
Total Daily Cost:	$13,727.68	$21,827.62	$148,127.62
Daily Tax:			

Engineering Costs	Unit Price	Qty Charged		Daily Engineering Cost	Cumulative Engineering cost
		Daily	Cum		

Product Costs Inventory & Consumption	Unit Size	Unit Price	Start Amount	Daily Used	Cum Used	Daily Rec'd	Cum Rec'd	Daily Return	Cum. Return	Final Stock	Daily Cost
CAUSTIC SODA	50 LB	$32.68	57	1	4		60			56	$32.68
DEFOAM X	5 GA	$206.25	16				16			16	
DESCO	25 LB	$54.48	80				80			80	
DUO-VIS	25 KG	$305.00	60	9	19		70			51	$2,745.00
FRESH WATER	1 GA	$0.05									
LIME	50 LB	$6.50	98		2		100			98	
M-I GEL	100 LB	$11.12									
M-I GEL BULK	1 TN	$198.00	25		10.55		35			25	
M-I WATE (BARITE)	50 LB	$9.80	592				592			592	
MIXING CHARGE WBM	1	$4.00		2300	2300	2300	4600				$9,200.00
MYACIDE GA25	5 GA	$277.93									
PAD MUD (WATERBASE)	1 BL	$47.50			2300		2300				
PALLETS	1	$17.00			25		25				
POLYPAC R	50 LB	$175.00	108	10	16		114			98	$1,750.00
POLY-PLUS	5 GA	$119.00	21				21			21	
SHRINK WRAPPING	1	$17.00			25		25				
SODA ASH	50 LB	$14.85	20				20			20	
SPERSENE	50 LB	$65.00									
TANNATHIN	50 LB	$12.50	56				56			56	

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MUD VOLUME ACCOUNTING
Daily Report

Operator : University of Texas **Date :** 5/12/2017
Well Name: OCS-G 30344 Hole H002 **Report No.:** 7

TANK	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS
Pit 1	190	16	178		Reserve
Pit 2	190	16	177		Reserve
Pit 3	190	10.5	165.7		Pad Mud
Pit 4	190	11.5	164.7		Kill Mud
Pit 5	165	10.5	146		Pad Mud
Pit 6	90	8.7	70.4		Prehydrated Gel
Pit 7	90	8.7	68.3		HI Vis Sweep
Pit 8	165	16	90		Reserve
Brine Tank 1	563	16	533		Reserve
Brine Tank 2	773	16	440		Reserve
Brine Tank 3	384				Reserve
Brine Tank 4	353				Reserve
HOS Crockett	3000				Boat
Pumps and Lines	50	10.5	34		Dead Volume

SUM of VOLUMES bbl	
Reserve	1418
Pad Mud	311.7
Kill Mud	164.7
Seawater	
Prehydrated Gel	70.4
HI Vis Sweep	68.3
Boat	
Dead Volume	34

Non Transactional Tank Volume bbl	
Total Non Trans Volume	

MUD IN HOLE (bbl)	ANNULUS	PIPE	BELOW BIT	TOTAL
Total Hole Volume	81	201		283
Volume Not Mud	81	201		283
Mud Volume				

VOLUME BALANCE (bbl) IN/TO:	ACTIVE	RESERVE	OTHER	TOTAL
Start Volume		**2026**	**649.1**	**2675.1**
Oil Added	#N/A		#N/A	
Water Added	#N/A		#N/A	16
Vol Chem Added	#N/A		#N/A	1.9
Total Volume Built	**#N/A**		**#N/A**	**#N/A**
Received	#N/A		#N/A	
Return	#N/A		#N/A	
Transfer In	#N/A	27	#N/A	42
Transfer Out	#N/A	34	#N/A	42
Daily Loss	601.0	601.0	-576.0	**626.00**
Final Volume		1418	649.0	**2067.0**

LOSS BREAKDOWN (bbl)	
Formation - Circulation	330
Other Subsurface	25
Other Subsurface	271