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WATER-BASED MUD REPORT No.8

Operator :	**University of Texas**	**Field/Area :**	Green Canyon	**Depth/TVD :**	8112 ft/8112 ft
Report For :	Tom Pettigrew	**Description :**	Block 955	**Date :**	**13-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		
7911 ft, 5.875 in Drill Pipe		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		285.4	#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		30 ft		Pump Pressure	psi	
Nozzles 5x20 / x 1/32"		Volume Drilled Last 24 hr		Bottoms Up	10.11 min/ 717.96 stk	
9.875in		2.98 bbl		Total Circulation	0 min/ 0stk	

MUD PROPERTIES

Sample From		Pad Mud @ 02:00	Sweep @ 06:00	Pad Mud @ 19:00	Pad Mud @ 21:30
FlowLine Temp	°F	80	80	80	80
Depth/TVD	ft	8092 / 8092	/	8112 / 8112	8112 / 8112
Mud Weight /Temp	lb/gal @ °F	10.5 @ 80	10.5 @	10.5 @ 80	10.5 @ 80
Funnel Viscosity	sec/qt	80		80	79
Rheology Temp	°F	80	82	80	80
R600/R300		46 / 30	89 / 67	37 / 25	24 / 18
R200/R100		24 / 17	61 / 54	17 / 13	14 / 11
R6/R3		8 / 7	23 / 21	8 / 6	6 / 5
PV	cP	16	22	12	6
YP	lbf/100ft²	14	45	13	12
10s/10m/30m Gel		7 / 13 /	29 / 35 /	5 / 11 /	5 / 10 /
API Fluid Loss	cc/30min	7.8		8	8.2
HTHP Fluid Loss	cc/30min				
Cake APT/HT	1/32"	1 /		1 /	1 /
Solids	%vol	10		9	10
Oil/Water	%vol	0/90		0/91	0/90
Sand	%vol	0.1		0.1	0.1
MBT	lb/bbl	7.5		6.25	7.5
pH / Temp		9.1 @ 80		8.3 @ 80	8.5 @ 80
Alkal Mud (Pm)		0.2			0.1
Pf/Mf		0.3 / 0.7		0.1 / 0.3	0.2 / 0.4
Chlorides	mg/L	16500		17800	18000
Hardness (Ca++)		2400		2400	2400

PRODUCTS USED Last 24 hr

Products	Size	Amount
DUO-VIS	25 KG BG	9
LIME	50 LB BG	2
POLYPAC R	50 LB BG	10
POLY-PLUS	5 GA CN	1
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

Building 10.5 ppg. Mud using the Hi Side Blender, with the 16 ppg. Mud and Seawater. Adding Duovis, PolyPac R and Lime to the 10.5 ppg. Mud

REMARKS

Drilled to 8,112' with 10.5 ppg. mud, pumping 25 bbl 10.5 ppg HI Vis sweeps as needed to clean the hole. Performed core 2CS. Working on Core 3CS observed restriction and could not pull free. Wireline finally pulled free. Pulled out of the hole with Core 3CS. Performed core 4CS, 5CS and 6CS.

TIME DISTRIBUTION Last 24 hrs		MUD VOL ACCTG (bbl)	
Drilling	2	Water Added	
Circulating / Hole C	4	Mud Received	
Rig Up / Tear Down	6	Mud Returned	
Coring Operations	10	Other Subsurface	273
Fishing Operations	2	Other Subsurface	76

SOLIDS ANALYSIS			RHEOLOGY & HYDRAULICS	
NaCl	%vol / lb/bbl	0.74 / 8.64	n	
KCl	%vol / lb/bbl	0 / 0	k	
Low Gravity	% / lb/bbl	3.08 / 28.01	Tauy	
Bentonite	% / lb/bbl	0.79 / 7.22	Bit loss/%, psi/%	
Drill Solids	% / lb/bbl	2.54 / 23.08	Bit HHP/HIS	
Weight Material	% / lb/bbl	6.18 / 88.73	Jet Velocity, ft/s	
Chemical Conc	lb/bbl		Va Pipe, ft/min	
Inert/React		2.7	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	$6,427.00	$154,554.62
Karey Louviere	281-942-4001	klouviere@slb.com				

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Wellsite Daily Cost

Daily Report No. 8

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

Date : 5/13/2017
Report No: 8

	Daily	Cumulative Interval	Cumulative Well
Engineering Charges:		$3,600.00	$19,800.00
Chemical cost:	$4,627.00	$24,654.62	$134,754.62
Equipment:			
Screens:			
Total Daily Cost:	$4,627.00	$28,254.62	$154,554.62
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	56		4		60			56	
DEFOAM X	5 GA	$206.25	16				16			16	
DESCO	25 LB	$54.48	80				80			80	
DUO-VIS	25 KG	$305.00	51	9	28		70			42	$2,745.00
FRESH WATER	1 GA	$0.05									
LIME	50 LB	$6.50	98	2	4		100			96	$13.00
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		4600				
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	98	10	26		114			88	$1,750.00
POLY-PLUS	5 GA	$119.00	21	1	1		21			20	$119.00
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 :** 5/13/2017
Well Name: OCS-G 30344 Hole H002 **Report No.:** 8

TANK	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS	SUM of VOLUMES bbl	
Pit 1	190	16	178		Reserve	Reserve	1069
Pit 2	190	16	177		Reserve	Pad Mud	313.7
Pit 3	190	10.5	165.7		Pad Mud	Kill Mud	164.7
Pit 4	190	11.5	164.7		Kill Mud	Prehydrated Gel	70.4
Pit 5	165	10.5	148		Pad Mud	HI Vis Sweep	68.3
Pit 6	90	8.8	70.4		Prehydrated Gel	Boat	
Pit 7	90	10.5	68.3		HI Vis Sweep	Dead Volume	34
Pit 8	165	16	90		Reserve		
Brine Tank 1	563	16	260		Reserve		
Brine Tank 2	773	16	364		Reserve		
Brine Tank 3	384				Reserve		
Brine Tank 4	353				Reserve		
HOS Crockett	3000				Boat		
Pumps and Lines	50	10.5	34		Dead Volume		
						Non Transactional Tank Volume bbl	
						Total Non Trans Volume	

MUD IN HOLE (bbl)				
	ANNULUS	PIPE	BELOW BIT	TOTAL
Total Hole Volume	83	202		285
Volume Not Mud	83	202		285
Mud Volume				

VOLUME BALANCE (bbl)				
IN/TO:	ACTIVE	RESERVE	OTHER	TOTAL
Start Volume		**1418**	**649**	**2067**
Oil Added	#N/A		#N/A	
Water Added	#N/A		#N/A	
Vol Chem Added	#N/A		#N/A	2.1
Total Volume Built	**#N/A**		**#N/A**	**#N/A**
Received	#N/A		#N/A	
Return	#N/A		#N/A	
Transfer In	#N/A		#N/A	
Transfer Out	#N/A		#N/A	
Daily Loss	349.0	349.0	-349.0	**349.00**
Final Volume		1069	651.1	**1720.1**

LOSS BREAKDOWN (bbl)	
Other Subsurface	273
Other Subsurface	76