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WATER-BASED MUD REPORT No.5

Operator :	**University of Texas**	**Field/Area :**	Green Canyon	**Depth/TVD :**	8185 ft/8185 ft
Report For :	Tom Pettigrew	**Description :**	Block 955	**Date :**	**20-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		
7982 ft, 5.875 in Bit		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		298.7		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		298.6		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		34 ft		Pump Pressure	psi	
Nozzles 5x20 / x 1/32"		Volume Drilled Last 24 hr		Bottoms Up	0 min/ 0 stk	
9.875in		3.38 bbl		Total Circulation	0 min/ 0stk	

MUD PROPERTIES

Sample From		Pit #5 @ 22:00	Pit #5 @ 09:30	Pit #5 @ 03:00	
FlowLine Temp	°F				
Depth/TVD	ft	8185 / 8185	8161 / 8161	8151 / 8151	
Mud Weight /Temp	lb/gal @ °F	10.5 @ 80	10.5 @ 84	9.5 @ 80	
Funnel Viscosity	sec/qt	50	45	43	
Rheology Temp	°F	80	80	80	
R600/R300		31 / 23	28 / 20	24 / 17	
R200/R100		18 / 14	16 / 12	13 / 9	
R6/R3		8 / 6	5 / 4	4 / 3	
PV	cP	8	8	7	
YP	lbf/100ft²	15	12	10	
10s/10m/30m Gel		7 / 15 /	5 / 14 /	5 / 9 /	
API Fluid Loss	cc/30min	9.8	10	10.6	
HTHP Fluid Loss	cc/30min				
Cake APT/HT	1/32"	1 /	1 /	1 /	
Solids	%vol	10	10	7	
Oil/Water	%vol	0/90	0/90	0/93	
Sand	%vol	0.1	0.1	0.1	
MBT	lb/bbl	7.5	7.5	5	
pH / Temp		8.5 @ 80	8.5 @ 84	8.4 @ 80	
Alkal Mud (Pm)		0.3	0.2	0.3	
Pf/Mf		0.2 / 0.7	0.2 / 0.4	0.3 / 0.7	
Chlorides	mg/L	18000	18000	18500	
Hardness (Ca++)		2400	2400	2350	

PRODUCTS USED Last 24 hr

Products	Size	Amount
DEFOAM X	5 GA CN	1
DUO-VIS	25 KG BG	6
POLYPAC R	50 LB BG	6
DESCO	25 LB BG	1
POLY-PLUS	5 GA CN	2
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 10.5 HI Vis Sweeps. Building Prehydrated Gel with Bulk Gel, Caustic Soda, and fresh water. Building 10.5 ppg. mud using the Hi Side Blender. Built 11.5 Hi Vis Sweep to pump before the cement spacer.

REMARKS

Performed core #9 from 8,141'-8,151' using 9.5 Pad Mud and 9.5 Hi Vis Sweeps. Switched over to 10.5 ppg WBM and proceeded with core #10, #11, #12 from 8,151-8,185'.

TIME DISTRIBUTION Last 24 hrs		MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS			RHEOLOGY & HYDRAULICS	
Drilling	4	Water Added	68.5	NaCl	%vol / lb/bbl	0.81 / 9.43	n	
Coring Operations	9	Mud Received		KCl	%vol / lb/bbl	0 / 0	k	
Circulating / Hole C	3	Mud Returned		Low Gravity	% / lb/bbl	3.04 / 27.64	Tauy	
Rig Up / Tear Down	8	Other Subsurface	173	Bentonite	% / lb/bbl	0.79 / 7.22	Bit loss/%, psi/%	
		Other Subsurface	19	Drill Solids	% / lb/bbl	2.49 / 22.66	Bit HHP/HIS	
		Other Subsurface	9	Weight Material	% / lb/bbl	6.15 / 88.31	Jet Velocity, ft/s	
		Other Subsurface	57	Chemical Conc	lb/bbl		Va Pipe, ft/min	
		Other Subsurface	490	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	$5,178.73	$61,068.13
Karey Louviere	281-942-4001	klouviere@slb.com				

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Wellsite Daily Cost

Daily Report No. 5

Operator : University of Texas
Well Name : OCS-G 30344 Hole H005
Location: Offshore

Date : 5/20/2017
Report No: 5

	Daily	Cumulative Interval	Cumulative Well
Engineering Charges:	$1,800.00	$7,200.00	$9,000.00
Chemical cost:	$3,378.73	$5,718.13	$52,068.13
Equipment:			
Screens:			
Total Daily Cost:	$5,178.73	$12,918.13	$61,068.13
Daily Tax:			

Engineering Costs	Unit Price	Qty Charged Daily	Qty Charged Cum	Daily Engineering Cost	Cumulative Engineering cost
OFFSHORE ENGINEERING SERV	$900.00	2	10	$1,800.00	$9,000.00

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	51		5					51	
DEFOAM X	5 GA	$206.25	16	1	1					15	$206.25
DESCO	25 LB	$54.48	79	1	1					78	$54.48
DUO-VIS	25 KG	$305.00	30	6	9					24	$1,830.00
FRESH WATER	1 GA	$0.05									
LIME	50 LB	$6.50	94		2					94	
M-I GEL	100 LB	$11.12									
M-I GEL BULK	1 TN	$198.00	20		4.5					20	
M-I WATE (BARITE)	50 LB	$9.80	466							466	
MIXING CHARGE WBM	1	$4.00			900		900				
MYACIDE GA25	5 GA	$277.93									
OFFSHORE ENGINEERING SERV	1	$900.00									
PAD MUD (WATERBASE)	1 BL	$47.50			900		900				
PALLETS	1	$17.00									
POLYPAC R	50 LB	$175.00	81	6	6					75	$1,050.00
POLY-PLUS	5 GA	$119.00	16	2	5					14	$238.00
SHRINK WRAPPING	1	$17.00									
SODA ASH	50 LB	$14.85	20							20	
SPERSENE	50 LB	$65.00									
TANNATHIN	50 LB	$12.50	56							56	

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MUD VOLUME ACCOUNTING
Daily Report

Operator : University of Texas **Date :** 5/20/2017
Well Name: OCS-G 30344 Hole H005 **Report No.:** 5

TANK	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS	SUM of VOLUMES bbl	
Pit 1	190	15.8	118		Reserve	Reserve	898
Pit 2	190	15.4	177		Reserve	Pad Mud	144
Pit 3	190				Pad Mud	Kill Mud	164.2
Pit 4	190	11.5	164.2		Kill Mud	Prehydrated Gel	55
Pit 5	165	10.5	144		Pad Mud	HI Vis Sweep	
Pit 6	90	11.5	55		Prehydrated Gel	Seawater	
Pit 7	90	8.33	68		Drill Water	Empty	
Pit 8	165	8.33	137		Drill Water	Active	
Brine Tank 1	563	16	563		Reserve	Boat	
Brine Tank 2	773	16	40		Reserve	Drill Water	205
Brine Tank 3	384				Empty		
Brine Tank 4	353				Empty		
HOS Crockett	3000				Boat		
Pumps and Lines	50				Active		
Gerry Bordelon	1500				Boat		
						Non Transactional Tank Volume bbl	
						Total Non Trans Volume	

MUD IN HOLE (bbl)				
	ANNULUS	PIPE	BELOW BIT	TOTAL
Total Hole Volume	89	209	0	299
Volume Not Mud	89	209	0	299
Mud Volume				

VOLUME BALANCE (bbl)				
IN/TO:	ACTIVE	RESERVE	OTHER	TOTAL
Start Volume		**1409**	**735.2**	**2144.2**
Oil Added				
Water Added		0.5	68	68.5
Vol Chem Added		1.5		1.5
Total Volume Built		**2**	**68**	**70**
Received				
Return				
Transfer In		142	36	178
Transfer Out		146	32	178
Daily Loss	509.0	509.0	-270.0	**748.00**
Final Volume		898	568.2	**1466.2**

LOSS BREAKDOWN (bbl)	
Other Subsurface	173
Other Subsurface	19
Other Subsurface	9
Other Subsurface	57
Other Subsurface	490