MI SWACO
A Schlumberger Company

WATER-BASED MUD REPORT No.5

Operator :	**University of Texas**	**Field/Area :**	Green Canyon	**Depth/TVD :**	0 ft/0 ft
Report For :	Tom Pettigrew	**Description :**	Block 955	**Date :**	**10-May-17**
Well Name :	OCS-G 30344 Pilot Hole A	**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 :**	Drilling

DRILLING ASSEMBLY	CASING	MUD VOLUME (bbl)		CIRCULATION DATA		
-201 ft, 5.875 in Drill Pipe		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub			#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	@100%	@100%
30 ft, 8.5 in Drill Collar		Depth Drilled Last 24 hr		Flow Rate	gal/min	
3 ft, 8.5 in Stabilizer		ft		Pump Pressure	psi	
Nozzles 5x20 / x 1/32"		Volume Drilled Last 24 hr		Bottoms Up	0 min/ 0 stk	
9.875in		0 bbl		Total Circulation	0 min/ 0stk	

MUD PROPERTIES						PRODUCTS USED Last 24 hr		
Sample From		Pit #3 @ 08:00	Pit #7			**Products**	**Size**	**Amount**
FlowLine Temp	°F					CAUSTIC SODA	50 LB BG	1
Depth/TVD	ft	/	/			DUO-VIS	25 KG BG	10
Mud Weight /Temp	lb/gal @ °F	10.5 @ 80	8.7 @			M-I GEL BULK	1 TN	7.55
Funnel Viscosity	sec/qt	77				POLYPAC R	50 LB BG	6
Rheology Temp	°F	80	80			SHRINK WRAPPING	1 EA	25
R600/R300		45 / 33	51 / 42			PALLETS	1 EA	25
R200/R100		27 / 20	36 / 29					
R6/R3		10 / 9	19 / 17					
PV	cP	12	9					
YP	lbf/100ft²	21	33					
10s/10m/30m Gel		12 / 16 /	17 / 21 /					
API Fluid Loss	cc/30min	7						
HTHP Fluid Loss	cc/30min							
Cake APT/HT	1/32"	1 /						
Solids	%vol	10						
Oil/Water	%vol	/90				Drilling Fluids Supervisor		1.0
Sand	%vol	0.1				Drilling Fluids Supervisor		1.0
MBT	lb/bbl	7.5						
pH / Temp		8.2 @ 80				**SOLIDS CONTROL EQUIPMENT Last 24 hr**		
Alkal Mud (Pm)						**Type**	**Model/Size**	**Hrs Used**
Pf/Mf		0.1 / 0.5						
Chlorides	mg/L	18000						
Hardness (Ca++)		2800						
						MUD PROPERTY SPECS min-max		**Actual**
							-	
							-	
							-	

REMARKS AND TREATMENT	REMARKS
Checked 10.5 ppg Pad Mud and HI Vis sweep. Rebuilding Prehydrated Gel as required with 40 ppb Bulk Gel and .25 ppb Caustic Soda. Build sweeps with 50% PHG and 50% seawater + .5 ppb Lime and 1/2 - 5 gallon can of Polyplus.	Continue tripping in the hole with BHA on drill pipe singles. Before tagging bottom, performed pump efficiency test with Hex Pumps. Testing and rig up wireline tools. Run flow test.

TIME DISTRIBUTION Last 24 hrs		MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS			RHEOLOGY & HYDRAULICS	
Make Up / Lay Dow	16.5	Water Added	268	NaCl	%vol / lb/bbl	0.81 / 9.43	n	
Other	7.5	Mud Received		KCl	%vol / lb/bbl	0 / 0	k	
		Mud Returned		Low Gravity	% / lb/bbl	3.04 / 27.64	Tauy	
				Bentonite	% / lb/bbl	0.79 / 7.22	Bit loss/%, psi/%	
				Drill Solids	% / lb/bbl	2.49 / 22.66	Bit HHP/HIS	
				Weight Material	% / lb/bbl	6.15 / 88.31	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			985-303-6218	281-942-4001	$8,277.58	$130,127.58
Karey Louviere						

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Wellsite Daily Cost

Daily Report No. 5

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

Date : 5/10/2017
Report No: 5

	Daily	Cumulative Interval	Cumulative Well
Engineering Charges:		$14,400.00	$14,400.00
Chemical cost:	$6,477.58	$110,100.00	$115,727.58
Equipment:			
Screens:			
Total Daily Cost:	$6,477.58	$124,500.00	$130,127.58
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	60	1	1		60			59	$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	70	10	10		70			60	$3,050.00
FRESH WATER	1 GA	$0.05									
LIME	50 LB	$6.50	100				100			100	
M-I GEL	100 LB	$11.12									
M-I GEL BULK	1 TN	$198.00	35	7.55	7.55		35			28	$1,494.90
M-I WATE (BARITE)	50 LB	$6.45	592				592			592	
MYACIDE GA25	5 GA	$277.93									
PAD MUD (WATERBASE)	1 BL	$47.50			2300		2300				
PALLETS	1	$17.00		25	25		25				$425.00
POLYPAC R	50 LB	$175.00	114	6	6		114			108	$1,050.00
POLY-PLUS	5 GA	$119.00	21				21			21	
SHRINK WRAPPING	1	$17.00		25	25		25				$425.00
SODA ASH	50 LB	$14.85	20				20			20	
SPERSENE	50 LB	$65.00									
TANNATHIN	50 LB	$12.50	56				56			56	

MUD VOLUME ACCOUNTING
Daily Report

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Operator : University of Texas **Date :** 5/10/2017
Well Name: OCS-G 30344 Pilot Hole A **Report No.:** 5

TANK	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS	SUM of VOLUMES bbl	
Pit 1	190	16	178		Reserve	Reserve	2043
Pit 2	190	16	177		Reserve	Pad Mud	165.7
Pit 3	190	10.5	165.7		Pad Mud	Kill Mud	164.7
Pit 4	190	11.5	164.7		Kill Mud	Seawater	144
Pit 5	165	8.7	144		Seawater	Prehydrated Gel	70.5
Pit 6	90	8.7	70.5		Prehydrated Gel	HI Vis Sweep	70.3
Pit 7	90	8.7	70.3		HI Vis Sweep	Boat	
Pit 8	165	16	114		Reserve	Dead Volume	34
Brine Tank 1	563	16	533		Reserve		
Brine Tank 2	773	16	743		Reserve		
Brine Tank 3	384				Reserve		
Brine Tank 4	353	16	298		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				
Volume Not Mud				
Mud Volume				

VOLUME BALANCE (bbl)				
IN/TO:	ACTIVE	RESERVE	OTHER	TOTAL
Start Volume		**2043**	**363**	**2406**
Oil Added	#N/A		#N/A	
Water Added	#N/A		#N/A	268
Vol Chem Added	#N/A		#N/A	18.2
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	35
Transfer Out	#N/A		#N/A	35
Daily Loss				
Final Volume		2043	649.2	**2692.2**

LOSS BREAKDOWN (bbl)