

A Schlumberger Company

## WATER-BASED MUD REPORT No.4

Field/Area: Green Canyon Depth/TVD: 8151 ft/8151 ft **Operator: University of Texas** Report For: Tom Pettigrew **Description:** Block 955 Date: 19-May-17

Well Name: OCS-G 30344 Hole H005 **Location**: Offshore Spud Date:

ontractor/Rig: Helix/Q4000 Report For: David Cobb Water Depth: 6664 Mud Type: WBM Other (M-I SWACO) Log-lt#: **Activity**: Coring

DRILLING ASSEMBLY	CASING	MUD VOL	JME (bbl)	CIRCULA	ATION DATA	
7946 ft, 5.875 in Bit		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		295.6		Pump Liner x Stk	4.5x11.8in	4.5x11.8in
120 ft, 8.5 in Drill Collar		Total Circula	ting Volume	Pump Capacity	4.87 gal/stk	4.87 gal/stk
3 ft, 8.5 in Stabilizer		295	5.2	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		50	ft	Pump Pressure		psi

Nozzles 5x20 / x 1/32" Volume Drilled Last 24 hr 0 min/0 stk Bottoms Un

		Volume Drilled Last 24 hr		Bottoms Up 0 min/ 0 stk			
9.875in				4.97 bbl	Total Circulation 0 min/ 0s		
		MUD PROF				ICTS USED Last 24	hr
Sample From		9.5 Pad Mud	9.5 Hi Vis Sweeps		Products	Size	Amount
FlowLine Temp	°F	80	80				
Depth/TVD	ft	8151 / 8151	8111 / 8111				
Mud Weight /Temp	lb/gal @ °F	9.5 @ 80	9.5 @ 80				
Funnel Viscosity	sec/qt	76	329				
Rheology Temp	°F	80	80				
R600/R300		43 / 28	48 / 36				
R200/R100		22 / 17	29 / 23				
R6/R3		7/6	16 / 14				
PV	cP	15	12				
YP	lbf/100ft <sup>2</sup>	13	24				
10s/10m/30m Gel		7 / 11 /	19 / 25 /				
API Fluid Loss	cc/30min	9.8					
HTHP Fluid Loss	cc/30min						
Cake APT/HT	1/32"	1/					
Solids	%vol	7					
Oil/Water	%vol	0/93			Drilling Fluids Supe	rvisor	1.0
Sand	%vol	0.1			Drilling Fluids Supervisor		1.0
MBT	lb/bbl						
pH / Temp		8.5 @ 80			SOLIDS CONT	ROL EQUIPMENT I	Last 24 hr
Alkal Mud (Pm)		0.4			Type	Model/Size	Hrs Used
Pf/Mf		0.2 / 0.5					
Chlorides	mg/L	18000					
Hardness (Ca++)		2400					
				†			
					MUD PROPERTY	SPECS min-max	Actual
	MOD PROPERTY OF				S. EGO IIIII IIIAX	Actual	
						-	
						-	
						-	
	REMARKS AN	D TREATMENT			REMARKS		

Rebuilt prehydrated Gel and sweeps as required. Adding Lime and PolyPlus and 16.0 ppg. mud to the 9.5 HI Vis Sweeps. Building Prehydrated Gel with Bulk Gel, Caustic Soda, and fresh water. Building 9.5 ppg. mud using the Hi Side Blender.

Performed core #4, #5, #6, #7 from 8,101'-8,141' using seawater and gel sweeps. Switched over to 9.5 ppg WBM and proceeded with core #8 from 8,141-8,151'.

TIME DISTRIBUT	TON Last 24 hrs	MUD VOL ACC	CTG (bbl)	SC	RHEOLOGY & HYDRAULICS				
Drilling	4	Water Added	43	NaCl	%vol / lb/bbl	0.84 / 9.75	n		
Coring Operations	10	Mud Received		KCI	%vol / lb/bbl	0/0	k		
Circulating / Hole C	3	Mud Returned		Low Gravity	% / lb/bbl	4.81 / 43.8	Tauy		
Rig Up / Tear Down	7	Other Subsurface	25	Bentonite	% / lb/bbl	0/0	Bit loss/9	%, psi/%	
		Other Subsurface	38	Drill Solids	% / lb/bbl	/	Bit HHP/	/HIS	
		Other Subsurface	82	Weight Material	% / lb/bbl	1.35 / 19.4	Jet Velo	city, ft/s	
		Other Subsurface	23	Chemical Conc	lb/bbl		Va Pipe,	ft/min	
				Inert/React			Va Colla	rs, ft/min	
				Average SG Solid	ds	2.9	CVa Pip	e, ft/min	
							CVa Col	lars, ft/min	
							ECD at S	Shoe, lb/gal	
							ECD at	ΓD, lb/gal	
M-I Engineer	Phone	email		Whse Phone	Rig Phone	Daily co	st	Cumula	tive Cost
Begona Sanchez	281-942-4001	GLopez27@slb.	<u>com</u>	985-303-6218	281-942-4001	\$1,800.0	20	\$55.9	389.40
Karey Louviere	281-942-4001	klouviere@slb.c	om	303-303-6216	201-342-4001	φ1,000.0	50	φου,	JUJ.4U



## **Wellsite Daily Cost**

**Date**: 5/19/2017

Report No: 4

## Daily Report No. 4

Operator: University of Texas

Well Name: OCS-G 30344 Hole H005

Location: Offshore

<u>Daily</u>				Cumulative Interval Cumulative We							lative Well	
Engineering Charges	\$4,000,00							\$7,200.00				
Chemical cost:									\$48,689.40			
Equipment											<u> </u>	
Screens												
	:	\$1,800.00 \$7,739.40 \$55,889.40								\$55,889.40		
Daily Tax		\$1,000.00					φ1,139.40				p33,009.40	
Daily Lax				I								
En alma anima Carata		Unit		Qty Charged		Daily Engineering Cost			Cumulative Engineering cost			
Engineering Costs		Price		Daily	Cum	Daily Engineering Cost			Cumulative Engineering Cost			
		<b>.</b>			-					<u> </u>		
OFFSHORE ENGINEERING SERV			\$900.00	2	8		\$1	,800.00			\$7,200.00	
Product Costs	Unit	Unit	Start	Daily	Cum	Daily	Cum	Daily	Cum.	Final	Daily	
								_			-	
Inventory & Consumption	Size	Price	Amount	Used	Used	Rec'd	Rec'd	Return	Return	Stock	Cost	
CAUSTIC SODA	50 LB	\$32.68			5					51		
DEFOAM X	5 GA	\$206.25	16							16		
DESCO	25 LB	\$54.48	79							79		
DUO-VIS	25 KG	\$305.00	30		3					30		
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		
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		
POLY-PLUS	5 GA	\$119.00			3					16		
SHRINK WRAPPING	1 50.15	\$17.00										
SODA ASH	50 LB	\$14.85	20							20		
SPERSENE	50 LB	\$65.00	50							50		
TANNATHIN	50 LB	\$12.50	56							56		



## **MUD VOLUME ACCOUNTING**

**Daily Report** 

Operator: University of Texas Date: 5/19/2017

Well Name: OCS-G 30344 Hole H005 Report No.: 4

TANK CAPACITY		WEIGHT	VOLUME	REMARKS	CLASS	SUM of VOLUMES bbl		
D:: 4	bbl	lb/gal	bbl					
Pit 1	190	16	135		Reserve	Reserve	1409	
Pit 2	190	14.9	70		Reserve	Pad Mud	313	
Pit 3	190	10.5	173		Pad Mud	Kill Mud	164.2	
Pit 4	190	11.5	164.2		Kill Mud	Prehydrated Gel	80	
Pit 5	165	9.5	140		Pad Mud	HI Vis Sweep	32	
Pit 6	90	9.6	80		Prehydrated Gel		146	
Pit 7	90	9.5	32			Empty		
Pit 8	165	8.6	146		Seawater	Active		
Brine Tank 1	563	16	528		Reserve	Boat		
Brine Tank 2	773	16	676		Reserve			
Brine Tank 3	384				Empty			
Brine Tank 4	353	9			Seawater			
HOS Crockett	3000				Empty			
Pumps and Lines	50				Active			
Gerry Bordelon	1500				Boat			
						Non Transactional Tank	Volume bb	
						Total Non Trans Volume		
							1	
							<del> </del>	
							<u> </u>	
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		MUD IN HO	LE (bbl)	<u>I</u>	<u> </u>			
		ANNULUS	PIPE	BELOW BIT	TOTAL			
Total Hole Volume		87	208	0	296			
Volume Not Mud		87	208	0	296		+	
Mud Volume		07	200	U	230			
vida volulile		I OLUME BALA	NCE (bbl)			I OSS BDEVIDOR	MN (bbl)	
	V	TOLUME DALA		1	ı	LOSS BREAKDON		
IN/TC	):	ACTIVE	RESERVE	OTHER	TOTAL	Other Subsurface	25	
						Other Subsurface	38	
Start Volume			1526	743.2	2269.2	Other Subsurface	82	
Oil Added		ļ				Other Subsurface	23	
Water Added				43	43			
Vol Chem Added							1	
Total Volume Built				43	43			
Received								
Return								
Transfer In				24	24			
Transfer Out			12	12	24			
Daily Loss		105.0	105.0	-42.0	168.00		1	
Final Volume		100.0	1409	735.2	2144.2		1	