

A Schlumberger Company

WATER-BASED MUD REPORT No.2

Depth/TVD: 7123 ft/7123 ft Field/Area: Green Canyon Operator: University of Texas Report For: Tom Pettigrew **Description:** Block 955 Date: 17-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)

Report For: David Cobb				Log-It # :		Activity : Coring			
DRILLING ASSEMBLY		CASING		MUD VO	LUME (bbl)	CIRCULATION DATA			
7482 ft, 5.875	in Bit			Hole	Active Pits	Pump Make NOV HEX II		NOV HEX II	
2 ft, 8.5 in 9	Sub			243.5		Pump Li	iner x Stk	4.5x11.8in	4.5x11.8in
120 ft, 8.5 in Dr	120 ft, 8.5 in Drill Collar				lating Volume	Pump	Capacity	4.87 gal/stk	4.87 gal/stk
3 ft, 8.5 in Sta	bilizer		_		43.5	Pum	p stk/min	@100%	@100%
30 ft, 8.5 in Dril	ll Collar				led Last 24 hr	F	low Rate		gal/min
3 ft, 8.5 in Sta	bilizer			407 ft		Pump	Pressure	70	psi
Nozzles 5x20 /	x 1/32"			Volume Drilled Last 24 hr		Bot	toms Up		/ 0 stk
9.875in				40.48 bbl			irculation		n/ Ostk
		MUD PROP	ERTIES			PRODUCTS USED Last 24 h			hr
Sample From		Pit #5 @ 16:15	Pit #3 @ 15:30	it #3 @ 15:30		Products Size		Amount	
FlowLine Temp	°F					CAUSTIC SODA	A	50 LB BG	2
Depth/TVD	ft	7645 / 7645	7645 / 7645			DUO-VIS		25 KG BG	3
Mud Weight /Temp	lb/gal @ °F	9.5 @ 81	10.5 @ 84			LIME		50 LB BG	1
Funnel Viscosity	sec/qt	39	42			M-I GEL BULK		1 TN	1.5
Rheology Temp	°F	14	81			POLY-PLUS		5 GA CN	2
R600/R300		16 / 13	26 / 18						
R200/R100		10/8	13/9						
R6/R3		2/2	3/2						
PV	cP	3	8						
YP	lbf/100ft ²	10	10						
10s/10m/30m Gel		3/4/	3/9/						
API Fluid Loss	cc/30min	7.6	8						
HTHP Fluid Loss	cc/30min								
Cake APT/HT	1/32"	1/	1/						
Solids	%vol	7	10						
Oil/Water	%vol	0/93	0/90			Drilling Fluids Supervisor		1.0	
Sand	%vol	0.1	0.1			Drilling Fluids Supervisor			1.0
MBT	lb/bbl	5	7.5						
pH/Temp		7.3 @ 83	8.7 @ 81			SOLIDS CONTROL EQUIPMENT L			
Alkal Mud (Pm)			0.1			Туре		Model/Size	Hrs Used
Pf/Mf		0.1 / 0.4	0.1 / 0.4						
Chlorides	mg/L	20000	18500						
Hardness (Ca++)		2800	1600						
					MUD PROPERTY SPECS min-r		CS min-max	Actual	
								-	
								-	
								-	

Built Prehydrated Gel with 40 ppb Bulk Gel and .25 ppb Caustic Soda and HI Vis Sweep with 50% PHG and 50% seawater + .5 ppb Lime and 1/2 - 5 gallon can of PolyPlus. Top off Pit #8 with seawater to use for initial spud in. Build 9.5 ppg. Pad Mud. Moved PolyPac R, Polyplus, Caustic Soda, Lime and DuoVis

REMARKS AND TREATMENT

near the pits. Pit Cleaners on rig. Began cleaning WBM residue from Brine Tank #4.

RIH with bit to 6694 ft. RIH w/no rotation at lowest flow rate mud pump can efficiently operate at, to top of cement at ~7400 ft. PPH to 6694. Offset the vessel to Hole H005. Tag seafloor surface, as verified by ROV camera. Spud Hole and drill from seafloor with seawater and gel sweeps. Drilled to 7645' and engaged core. Cored from 7645' to 7655'.

REMARKS

TIME DISTRIBUTION Last 24 hrs		MUD VOL A	CCTG (bbl)	S	RHE		EOLOGY & HYDRAULICS		
Trip (Not Programm	3	Water Added	321.2	NaCl	%vol / lb/bbl	0.93 / 10.84	n		
Drilling	10	Mud Received		KCI	%vol / lb/bbl	0/0	k		
Coring Operations	5	Mud Returned		Low Gravity	% / lb/bbl	4.76 / 43.28	Tauy		
Rig Up / Tear Down	6	Other Surface	19	Bentonite	% / lb/bbl		Bit loss/9		
		Other Subsurface	25	Drill Solids	% / lb/bbl	4.73 / 43.06	Bit HHP/	HIS	
		Other Subsurface	25	Weight Material	% / lb/bbl	1.31 / 18.83	Jet Velo		
				Chemical Conc	lb/bbl		Va Pipe,		
				Inert/React		7.7	Va Colla		
				Average SG Solid	ds		CVa Pip		
								ars, ft/min	
								Shoe, lb/gal	
							ECD at	D, lb/gal	
M-I Engineer	Phone	email		Whse Phone	Rig Phone	Daily co	Daily cost Cum		tive Cost
Begona Sanchez	281-942-4001	GLopez27@slb.com		985-303-6218	281-942-4001	\$3,321.86		\$51,471.86	
Karey Louviere	281-942-4001	klouviere@slb.com		300-303-0210	201-342-4001				



Wellsite Daily Cost

Date: 5/17/2017

Report No: 2

Daily Report No. 2

Operator: University of Texas

Well Name: OCS-G 30344 Hole H005

Location: Offshore

Location	: Offshore										
<u>Daily</u>				<u>Cumulative Interval</u> <u>Cumulative Well</u>						lative Well	
Engineering Charges:		\$1,800.00			\$1,800.00				\$3,600.00		
Chemical cost:	\$1,521.86	\$1,521.86					;	\$47,871.86			
Equipment	:				-,						
Screens	:										
Total Daily Cost	:	\$3,321.86					\$3,321.86				\$51,471.86
Daily Tax											<u> </u>
	-			040	·la a u u a al						
Engineering Costs		Unit Price		Qty Charged Daily Cum		Daily Engineering Cost			Cumulative Engineering cost		
OFFSHORE ENGINEERING SERV			\$900.00	2	-		\$1	,800.00	\$3,600.00		
OF FORME ENGINEERING SERV			φοσσ.σσ				Ψ,	,000.00			ψο,σσσ.σσ
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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	56	2	2					54	\$65.36
DEFOAM X	5 GA	\$206.25	16							16	
DESCO	25 LB	\$54.48	79							79	
DUO-VIS	25 KG	\$305.00	33	3	3					30	\$915.00
FRESH WATER	1 GA	\$0.05		_							40.000
LIME	50 LB	\$6.50	96	1	1					95	\$6.50
M-I GEL	100 LB	\$11.12	- 00	·							Ψ0.00
M-I GEL BULK	1 TN	\$198.00	25	1.5	1.5					23	\$297.00
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		_					81	***
POLY-PLUS	5 GA	\$119.00	19	2	2					17	\$238.00
SHRINK WRAPPING	1 50 LD	\$17.00	20							20	
SODA ASH SPERSENE	50 LB 50 LB	\$14.85 \$65.00	20							20	
TANNATHIN	50 LB	\$65.00 \$12.50	56							56	
I AININA I MIN	20 FR	\$12.50	90							90	



MUD VOLUME ACCOUNTING

Daily Report

Operator: University of Texas Date: 5/17/2017

Well Name: OCS-G 30344 Hole H005 Report No.: 2

	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS	SUM of VOLUMES bbl	
Pit 1	190	16	158		Reserve	Reserve	1533
Pit 2	190	16	171		Reserve	Pad Mud	313
Pit 3	190	10.5	173		Pad Mud	Kill Mud	164.2
Pit 4	190	11.5	164.2			Prehydrated Gel	65
Pit 5	165	9.5	140			HI Vis Sweep	54
Pit 6	90	8.8	65		Prehydrated Gel		195
Pit 7	90	8.8	54		HI Vis Sweep		
Pit 8	165	8.6	125		Seawater	Active	
Brine Tank 1	563	16	528		Reserve	Empty	
Brine Tank 2	773	16	676		Reserve	Boat	
Brine Tank 3	384		0.0		Empty	2001	
Brine Tank 4	353	9	70		Seawater		
HOS Crockett	3000		,,,		Empty		†
Pumps and Lines	50				Active		†
Gerry Bordelon	1500				Boat		
derry borderon	1300				Doat	Non Transactional Tank	Volume bbl
						Total Non Trans Volume	V OIGITIE DDI
						Total Non Trans Volume	
							1
		MUD IN UO	 				
		MUD IN HO					
T		ANNULUS	PIPE	BELOW BIT	TOTAL		1
Total Hole Volume		51	193		244		
Volume Not Mud		51	193		244		
Mud Volume							
	V	OLUME BALA	ANCE (bbl)			LOSS BREAKDOV	VN (bbl)
IN/TO:		ACTIVE	RESERVE	OTHER	TOTAL	Other Surface	19
		AOIIVL	INLOCKVE			Other Subsurface	25
			1552	516	2068	Other Subsurface	25
Oil Added							
Water Added				321.2	321.2		
Vol Chem Added				4	4		
Total Volume Built				325.2	325.2		1
Received				5_5.2			1
Return							
			 	88	88		
							1
				QO	QO		
Transfer In Transfer Out Daily Loss				88 69.0	88 69.00		