

A Schlumberger Company

## WATER-BASED MUD REPORT No.3

Field/Area: Green Canyon Depth/TVD: 8101 ft/8101 ft **Operator: University of Texas** Report For: Tom Pettigrew **Description**: Block 955 Date: 18-May-17

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

contractor/Rig: Helix/Q4000 Report For: David Cobb Water Depth: 6664 Mud Type: WBM Other (M-I SWACO)

Log-lt#: Activity : Coring

					3	
DRILLING ASSEMBLY	CASING	MUD VOL	UME (bbl)	CIRCULA	ATION DATA	
7897 ft, 5.875 in Bit		Hole	Active Pits	Pump Make	NOV HEX II	NOV HEX II
2 ft, 8.5 in Sub		291		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		290	0.8	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		. 418 ft		Pump Pressure		psi
Nozzles 5x20 / x 1/32"		Volume Drille	ed Last 24 hr	Bottoms Up	0 min	/ 0 stk
9.875in		41.58	8 bbl	Total Circulation	0 mir	n/ Ostk
	MUD PROPERTIES			PRODUCTS	USED Last 24	hr

MUD PROPERTIES					PRODUCTS USED Last 24 hr			
Sample From		Pit #5 @ 20:00	Pit #7 @ 10:00		Products	Size	Amount	
FlowLine Temp	°F				CAUSTIC SODA	50 LB BG	3	
Depth/TVD	ft	8091 / 8081	8081 / 8081		LIME	50 LB BG	1	
Mud Weight /Temp	lb/gal @ °F	9.5 @ 83	8.8 @ 85		M-I GEL BULK	1 TN	3	
Funnel Viscosity	sec/qt	41	358		POLY-PLUS	5 GA CN	1	
Rheology Temp	°F	80	80					
R600/R300		23 / 17	51 / 41					
R200/R100		14 / 11	36 / 30					
R6/R3		4/3	19 / 18					
PV	cP	6	10					
YP	lbf/100ft <sup>2</sup>	11	31					
10s/10m/30m Gel		4/5/	21 / 27 /					
API Fluid Loss	cc/30min	6.4						
HTHP Fluid Loss	cc/30min							
Cake APT/HT	1/32"	1/						
Solids	%vol	7						
Oil/Water	%vol	0/93			Drilling Fluids Sup	1.0		
Sand	%vol	0.1			Drilling Fluids Sup	1.0		
MBT	lb/bbl	5						
pH / Temp		8.1 @ 83				TROL EQUIPMENT		
Alkal Mud (Pm)					Type	Model/Size	Hrs Used	
Pf/Mf		0.1 / 0.4						
Chlorides	mg/L	20000						
Hardness (Ca++)		1200						
					MUD PROPERT	Y SPECS min-max	Actual	
		·				-		
		·				-		
						-		
	REMARKS AN	ND TREATMENT			REMARKS			

Rebuilt Prehydrated Gel with 40 ppb Bulk Gel and .25 ppb Caustic Soda and HI 1st core run was successful. Continued drilling to next core point at 8,081' using seawater 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.

Pit Cleaners continue cleaning WBM residue from Brine Tank #4.

and gel sweeps. Rig up coring assembly using slick line. Performed core #2 & 3 from 8,081'-8,101'.

TIME DISTRIBUT	TON Last 24 hrs	MUD VOL AC	CTG (bbl)	SC	SOLIDS ANALYSIS		RHEOLOGY & HYDRAULI		DRAULICS
Drilling	7	Water Added	158	NaCl	%vol / lb/bbl	0.93 / 10.84	n		
Coring Operations	9	Mud Received		KCI	%vol / lb/bbl	0/0	k		
Rig Up / Tear Down	5	Mud Returned		Low Gravity	% / lb/bbl	4.76 / 43.28	Tauy		
Circulating / Hole C	3	Other Subsurface	25	Bentonite	% / lb/bbl	0.49 / 4.47	Bit loss/9	%, psi/%	
		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 Veloc		
		Other Subsurface	25	Chemical Conc	lb/bbl		Va Pipe,		
		Other Subsurface	25	Inert/React		7.7	Va Colla		
		Pit Cleaning & Dead	70	Average SG Solid	ds	2.9	CVa Pipe		
		Other Subsurface	25					lars, ft/min	
								Shoe, Ib/gal	
							ECD at 7	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.com		985-303-6218	281-942-4001	\$2,617.	= 1	<b>\$</b> E.1.1	089.40
Karey Louviere	281-942-4001	klouviere@slb.	<u>com</u>	300-303-0210	201-342-4001	\$2,017.3	J <del>-</del>	\$54,0	J03.40



## **Wellsite Daily Cost**

Daily Report No. 3

Date: 5/18/2017

Report No: 3

Operator: University of Texas

Well Name: OCS-G 30344 Hole H005

Location: Offshore

	: Offshore										
<u>Daily</u>					Cumulative Interval				Cumulative Well		
Engineering Charges	\$1,800.00 \$3,6					\$3,600.00	3,600.00 \$5,400			\$5,400.00	
Chemical cost	:	\$817.54					\$2,339.40		\$48,689.40		
Equipmen	t:										
Screens	s:										
Total Daily Cos		\$2,617.54					\$5,939.40				\$54,089.40
Daily Tax											
				01 0	N						
Engineering Costs		Unit Price \$900.00		Qty Charged Daily Cum		Daily Engineering Cost			Cumulative Engineering cost		
OFFSHORE ENGINEERING SERV				2	6	\$1,800.00			\$5,400.00		
						1					
Product Costs	Unit	Unit	Start	Daily	Cum	Daily	Cum	Daily	Cum.	Final	Daily
		Price		Used			Rec'd	_	Return	Stock	Cost
Inventory & Consumption	Size		Amount				Kec.u	Return			
					Used	Rec'd	ittee u	rtotaiii	Retuin		
CAUSTIC SODA	50 LB	\$32.68	54	3	5	Rec u	iteo u	rtotarri	Neturn	51	\$98.04
DEFOAM X	50 LB 5 GA	\$32.68 \$206.25	54 16			Nec u	Neo u	- Notain	Return	51 16	
	50 LB	\$32.68	54			Nec u	neo a	TOTAL III	Neturn	51	
DEFOAM X	50 LB 5 GA	\$32.68 \$206.25	54 16			Nec u	Neo u		Neturn	51 16	
DEFOAM X DESCO	50 LB 5 GA 25 LB	\$32.68 \$206.25 \$54.48	54 16 79		5	Nec u	Neo u		Return	51 16 79	
DEFOAM X DESCO DUO-VIS	50 LB 5 GA 25 LB 25 KG	\$32.68 \$206.25 \$54.48 \$305.00	54 16 79		5	Nec u	New C		Return	51 16 79	\$98.04
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05	54 16 79 30	3	3	Nec u	Redu		Ketuiii	51 16 79 30	\$98.04
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12	54 16 79 30 95	3	3	Nec u	- New C		Ketuiii	51 16 79 30 94	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE)	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80	54 16 79 30	1	3 2 4.5	Nec u			Ketuiii	51 16 79 30	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80	54 16 79 30 95	1	3	Nec u	900		Keturii	51 16 79 30 94	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 SO LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$4.00	54 16 79 30 95	1	3 2 4.5	Nec u			Return	51 16 79 30 94	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 GA	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$4.00 \$277.93	54 16 79 30 95	1	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE)	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 GA 1 GA	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$4.00 \$277.93 \$900.00	54 16 79 30 95	1	3 2 4.5	Nec u			Return	51 16 79 30 94	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE) PALLETS	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 BL 1 BL	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$4.00 \$277.93 \$900.00 \$47.50	54 16 79 30 95 23 466	1	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94 20 466	\$98.04 \$6.50
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE) PALLETS POLYPAC R	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 BL 1 BL 1 S0 LB	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$4.00 \$277.93 \$900.00 \$47.50	54 16 79 30 95 23 466	1 3	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94 20 466	\$98.04 \$6.50 \$594.00
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE) PALLETS POLYPAC R POLY-PLUS	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 BL 1 BL 1 S0 LB 5 GA	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$47.93 \$900.00 \$47.50 \$175.00 \$119.00	54 16 79 30 95 23 466	1	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94 20 466	\$98.04 \$6.50 \$594.00
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE) PALLETS POLYPAC R POLY-PLUS SHRINK WRAPPING	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 BL 1 BL 1 SO LB 1 GA	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$47.93 \$900.00 \$47.50 \$175.00 \$119.00	54 16 79 30 95 23 466	1 3	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94 20 466	\$98.04 \$6.50 \$594.00
DEFOAM X DESCO DUO-VIS FRESH WATER LIME M-I GEL M-I GEL BULK M-I WATE (BARITE) MIXING CHARGE WBM MYACIDE GA25 OFFSHORE ENGINEERING SERV PAD MUD (WATERBASE) PALLETS POLYPAC R POLY-PLUS	50 LB 5 GA 25 LB 25 KG 1 GA 50 LB 100 LB 1 TN 50 LB 1 BL 1 BL 1 S0 LB 5 GA	\$32.68 \$206.25 \$54.48 \$305.00 \$0.05 \$6.50 \$11.12 \$198.00 \$9.80 \$47.93 \$900.00 \$47.50 \$175.00 \$119.00	54 16 79 30 95 23 466	1 3	3 2 4.5 900	Nec u	900		Return	51 16 79 30 94 20 466	



## **MUD VOLUME ACCOUNTING**

**Daily Report** 

Operator: University of Texas Date: 5/18/2017

Well Name: OCS-G 30344 Hole H005 Report No.: 3

TANK	CAPACITY bbl	WEIGHT lb/gal	VOLUME bbl	REMARKS	CLASS	SUM of VOLUME	S bbl
Pit 1	190	16	158		Reserve	Reserve	1526
Pit 2	190	16	164		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	70
Pit 5	165	9.5	140		Pad Mud	HI Vis Sweep	71
Pit 6	90	8.8	70		Prehydrated Gel		125
Pit 7	90	8.8	71			Empty	
Pit 8	165	8.6	125		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	Ü			Empty		
Pumps and Lines	50				Active		
Gerry Bordelon	1500				Boat		
derry borderon	1500				Doar	Non Transactional Tank	Volume bbl
							Volume bbi
						Total Non Trans Volume	
		MUD IN HO	I E (bbl)	<u> </u>			
		ANNULUS	PIPE	BELOW BIT	TOTAL		
Total Hole Volume							
		84	207	0	291		
Volume Not Mud		84	207	0	291		
Mud Volume							
	V	OLUME BAL	ANCE (bbl)		1	LOSS BREAKDOV	
IN/TO	):	ACTIVE	RESERVE	OTHER TOTAL		Other Subsurface	25
		7.01172				Other Subsurface	25
Start Volume			1533	791.2	2324.2	Other Subsurface	25
Oil Added						Other Subsurface	25
Water Added				158	158	Other Subsurface	25
Vol Chem Added				7	7	Pit Cleaning & Dead Vol.	70
Total Volume Built				165	165	Other Subsurface	
Received							25
Return							
Transfer In				97	97		
Transfer Out			7	90	97		
Daily Loss				220.0	220.00		
Final Volume			1526	743.2	2269.2		