Daily Drilling Report Onshore

EP ENERGY

Data shared on this report is CONFIDENTIAL

Well Name/Wellbore No.: UNIVERSITY STONEGATE 3819LH/00
Country: USA
State/OCSG: TEXAS
Field/Permit#: SALT DRAW
Supervisors: JOHNSON,DUSTY / PANNELL,CHARLE
Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO

Report Number: 002 API #: 4210542364
Report Date: 05/16/2017
Spud Date: 05/16/2017
Release Date:
DFS: 0.19 DOL: 1 AFE Days: 6
Last BOP T.:

Depth md/tvd (ft): 2,200.00 / 2,176.87
Progress (ft): 1,260.00
ROP: 1,260.0 / 4.50 = 280.00
Proposed TD (ft): 14,685.30
Next Csg Point (ft): 14,722.03

Rig: NABORS DRILLING/F-34
Rig Phone: 713-997-1205
RKB (ft): 2,649.01
Ground Level (ft): 2,619.0
POB: 40 Total Man Hours: 393.00

Current Activity: DRILLING SIDE BUILD @ 2,200'

24 Hr Summary: SKID FROM UNIVERSITY 38 BLOCK POOLED 3819 KH. N/U & TEST BOP. P/U DIRECTIONAL TOOLS & TIH. SLIP & CUT DRILL LINE. DISPLACE WELL/ SPUD WELL @ 01:30 5/16/2017. DRILL F/ 940' -

24 Hr Forecast: DRILL TO KOP, TRIP FOR CURVE BHA

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: Michael Burkett

Time:	22:28	Oil Cnt (%):	70
Location:	JCTION TANK	H2O Cnt (%):	20
Pit Temp (°F	0	Sand Cnt (%):	0.01
Depth (ft):	0.00	MBT (lbm/bbl):	0.0
Density (ppg):	9.35	pH:	0.0
FV (s/qt):	56	Pm (cc):	0.0
PV (cp):	12	Pf (cc):/Mf (cc):	0.0 / 0.0
YP (lbf/100ft²):	12	Chloride (ppm):	0
Gels ():	8/10/13	Calcium (ppm):	0.00
WL (cc/30min):	8.00	LCM (lbm/bbl):	0.0
HTHP (°F):	250	ES (mV):	750.0
Cake (32nd"):	2.00	LGS (%):	4.10
Solids (lbm/bbl):	37	Ex Lime (ppb):	3.2
ECD (ppg):	9.4	OWR:	77.8 / 22.2

MUD MATERIALS

Mud Additives	Used
DRIL-TREAT	14
LIME	50
EZ MUL	3
INVERMUL	3
OIL ABSORBANT	2
MUD ENGINEER	1
TAX	5,843

BIT RECORD

Bit#		1
S/N		12871263
Size (in)		8.75
Mfg		HALLIBURTON
IADC Type		
Model #		MM56D
Jets		5X16
Depth In (ft)		940
Depth Out (ft)		
Bit Rotations		60/60
On Btm Hrs Cum		4.50
Footage Cum (ft)		1,260
ROP Cum		280.0
WOB mn/mx (kip)	/	25 / 28
RPM rot/bit	/	60 / 60
Bit HP		1.94
HSI		1.97
PSI Drop (psi)		333.05
Jet Vel (ft/s)		199.53
Imp Force		590.13

Grading: I O D L B G O R
Bit #
Bit # 1

CASING

Size(in)	MD(ft)/TVD(ft)		FIT/LOT(ppg)
14.00	70.00 /	70.00	
9.63	934.00 /	934.00	
5.50	14,722.03 /	6,530.01	

INVENTORY

Item	Inv
RIG FUEL	13,271
MUD DIESEL	7,000

SOLIDS CONTROL

Skr	Deck 1 Screens	Deck 2 Screens
1	100/100/100/100	
2	140/230/230/230	
3	140/230/230/230	

MUD LOGGING

Trip Gas (units):	@	BG Gas (units):	Surf to Surf:
Conn Gas (units)	@		Lag Strokes:
Form:		Pore Pressure: 0 (%)	Lag Time: (min)

BHA # 1

Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)
1	MM56D		8.750	1.00	1.00
1	RYAN 6-3/4" 7/8 5.0 1.75 FBH MUD		6.750	25.74	26.74
1	PONY DC	2.875	6.500	12.23	38.97
1	EM TOOL	2.875	6.625	27.20	66.17
1	NMDC	2.875	6.750	30.37	96.54
1	CROSSOVER	2.812	6.750	2.91	99.45
3	3 DRILL COLLARS	2.875	6.500	91.04	190.49
1	CROSSOVER	2.250	6.500	3.05	193.54
	5" DP	4.276	5.000	2,006.46	2,200.00
				Total Length:	2,200.00

STRING LOADS

On Btm Torque:	7,200
Off Btm Torque:	1,500
Str. Wt. Up:	100
Str. Wt. Down:	97
Str. Wt. Rot.:	98
Max Over Pull:	

BHA PROPERTIES

BHA Hrs:	5
Jar Hrs:	
Cum String Hours:	5
Weight B Jars (kip):	

MUD PUMPS

	#1	#2	#3
Pump Type:	DR	DR	
Liner ID:	5.50	5.50	
SPM:	85.00	85.00	
GPM:	305.28	305.28	
SPR:			
1 SPM:	0.00	0.00	
Pressure:	0.00	0.00	
2 SPM:	0.00	0.00	
Pressure:	0.00	0.00	

T GPM (gpm): 600 SPP (psi): 2,500
AV (DC): 429 AV (DP): 285

SURVEYS

MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
744	0.57	276.96	744	4.53	-5.07	4.56	0.00
974	0.38	254.93	974	4.45	-6.94	4.50	0.11
1,079	0.88	69.13	1,079	4.65	-6.52	4.70	1.20
1,267	5.13	68.96	1,267	8.25	2.67	8.23	2.26
1,454	8.31	73.17	1,452	15.30	23.42	15.15	1.72
1,642	11.69	71.06	1,637	25.63	54.44	25.26	1.81
1,830	15.31	69.66	1,820	40.72	95.74	40.08	1.93
2,017	15.50	74.05	2,001	56.49	142.92	55.53	0.63

OPERATION DETAILS

FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
07:30	11:00	3.50	P	MIRU	01	MIRU	SLOW SKID DUE TO SOFT LOCATION UNDER MATS. CENTER & LEVEL OVER WELL.
11:00	17:00	6.00	P	CASSURF	28	NUBOPE	N/U & TEST BOP. 250 LOW / 5000 HIGH. ANN. 250 LOW / 3500 HIGH.
17:00	18:00	1.00	P	CASSURF	31	TESTCAS	TEST CASING TO 1,400 PSI. (OK)
18:00	20:30	2.50	P	CASSURF	28	NUBOPE	INSTALL FLOW LINE, BOP TURN BUCKLES, CENTER BOP STACK,
20:30	22:00	1.50	P	CASSURF	13	TRIP	PICK UP BHA #1; 8 3/4" HALLIBURTON MM56D W/ 1.75 FBH 7/8 5.0 MOTOR AND EM TOOL. MAX DIFF - 1130 PSI,.28 RPG. TIH TAG CEMENT @ 866'.
22:00	23:30	1.50	P	CASSURF	15	CIRC	LEVEL DERRICK WHILE DISPLACING HOLE WITH 9.3 PPG OBM.
23:30	01:00	1.50	P	CASSURF	17	CUTSLIP	SLIP & CUT DRILL LINE
01:00	01:30	0.50	P	CASSURF	32	DRLFLOAT	DRILL OUT CEMENT & SHOE TRACK F/ 866' - 934'. WASH TO BOTTOM @ 940'
01:30	06:00	4.50	P	DRLPRD	08	DRLDIR	SPUD WELL @ 01:30 5/19/2017. DRILL F/ 940' - 2,200

Daily Operations Comments
NO INCIDENTS, DRILLING DIRECTIIONAL PN4

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