

[illegible]

[illegible]

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		Well Name/Wellbore No.: UNIVERSITY 38 BLOCK 3819KH/00		Report Number: 002 API #: 4210542367			
		Country: USA State/OCSG: TEXAS Field/Permit#: SALT DRAW Supervisors: JOE WILKERSON / JARED FAUST Engineer/Manager: WILLIAMS, RYAN / MARES, SERGIO		Report Date: 05/07/2017 Spud Date: Release Date: DFS: 0.00 DOL: 1 AFE Days: 6 Last BOP T.: 05/06/2017			
Data shared on this report is CONFIDENTIAL							
Depth md/tvd (ft): 932.00 / 932.00		Rig: NABORS DRILLING/F-34					
Progress (ft): 0.00		Rig Phone: 713-997-1205					
ROP: 0.0 / = 0.00		RKB (ft): 2,649.01					
Proposed TD (ft): 17,524.30		Ground Level (ft): 2,619.0					
Next Csg Point (ft): 17,545.04		POB: 55 Total Man Hours: 276.00					
Current Activity: TIH WITH SIDEBUILD BHA @ 300'. 24 Hr Summary: WALK RIG. NU & TEST BOP. TEST CSG. INSTALL FLOW LINE. CENTER BOP. C/O PIPE HANDLER MOTOR. MU SIDEBUILD BHA & TIH. 24 Hr Forecast: FINISH TIH. SLIP & CUT DRILL LINE. LEVEL RIG. DRILL FLOAT EQUIPMENT. DRILL SIDEBUILD.							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING	
Fluids Co.: HALLIBURTON Fluids Eng: Wesley Vaughn				Bit# 1 S/N 12900073 Size (in) 8.75 Mfg HALLIBURTON IADC Type Model # MM56D		Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 16.00 70.00 / 70.00 9.63 932.00 / 932.00 5.50 17,545.04 / 6,602.01	
Time: 5:32 Oil Cnt (%): 69 Location: JCTION TANK H2O Cnt (%): 19 Pit Temp (°F): 118 Sand Cnt (%): 0.01 Depth (ft): 932.00 MBT (lbm/bbl): 0.0 Density (ppg): 9.30 pH: 0.0 FV (s/qt): 61 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 13 Chloride (ppm): 0 Gels (l): 11/15/19 Calcium (ppm): 0.00 WL (cc/30min): 7.20 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 777.0 Cake (32nd"): 2.00 LGS (%): 8.60 Solids (lbm/bbl): 81 Ex Lime (ppb): 3.4 ECD (ppg): 9.3 OWR: 78.4 / 21.6		Mud Additives Used		JETS 5X16 Depth In (ft) 932 Depth Out (ft) / Bit Rotations / On Btm Hrs Cum / Footage Cum (ft) 0.0 ROP Cum / WOB mn/mx (kip) / RPM rot/bit / Bit HP 0.00 HSI 0.00 PSI Drop (psi) 0.00 Jet Vel (ft/s) 0.00 Imp Force 0.00			
MUD LOGGING				Grading I O D L B G O R Bit # Bit # 1		INVENTORY	
Trip Gas (units): @ Conn Gas (units): @ Form:		BG Gas (units): Pore Pressure: 0 (%)		Surf to Surf: Lag Strokes: Lag Time: (min)		Item Inv DIESEL 14,282 MUD DIESEL 5,000	
						SOLIDS CONTROL	
						Skr Deck 1 Screens Deck 2 Screens 1 100/100/100/100 2 140/230/230/230 3 140/230/230/230	
BHA # 1		STRING LOADS		MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: Off Btm Torque: Str. Wt. Up: Str. Wt. Down: Str. Wt. Rot.: Max Over Pull:	
1	MM56D		8.750	1.00	1.00		
1	RYAN 6-3/4" 7/8 5.0 1.75 FBH MUD		6.625	26.14	27.14		
1	PONY DC	3.250	6.625	12.23	39.37		
1	EM TOOL	2.812	6.750	27.33	66.70		
1	NMDC	2.875	6.750	30.37	97.07		
1	CROSSOVER	2.875	6.375	2.91	99.98		
3	3 DRILL COLLARS	2.875	6.500	91.04	191.02		
1	CROSSOVER	2.250	6.562	3.05	194.07		
5"	DP	4.276	5.000	737.93	932.00		
Total Length:					932.00	BHA PROPERTIES	
						BHA Hrs: Jar Hrs: Cum String Hours: Weight B Jars (kip):	
						Pump Type: Liner ID: SPM: GPM: SPR: 1 SPM: Pressure: 2 SPM: Pressure:	
						T GPM (gpm): SPP (psi): AV (DC): AV (DP):	
SURVEYS							
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)	
830		0.23		80.17		830	
						V Section (ft)	
						+E/-W (ft)	
						+N/-S (ft)	
						Dog Leg (°/100ft)	
						0.00	
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
14:30	18:30	4.00	P	MIRU	01	MIRU	WALK RIG OVER WELL CENTER. (HAD TROUBLE WALKING RIG DUE TO MATS SINKING INTO LOCATION)
18:30	20:00	1.50	P	CASSURF	28	NUBOPE	N/U BOPE.
20:00	23:00	3.00	P	CASSURF	30	TSTWCEQ	TEST BOPE WITH ELITE. 250 PSI LOW, 5,000 PSI HIGH, 5MIN EACH WITH H2O. TEST ANNULAR TO 3,500 PSI.
23:00	23:30	0.50	P	CASSURF	31	TESTCAS	TEST CASING TO 1,400 PSI FOR 30 MIN.
23:30	01:00	1.50	N	CASSURF	43	RRTOP	C/O PIPE HANDLER GEARBOX AND PUMP ON TOP DRIVE.
01:00	04:00	3.00	P	CASSURF	28	NUBOPE	INSTALL BOARDS UNDER SUBSTRUCTUR. CENTER BOP WITH ROTARY AND INSTALL FLOW LINE. C/O GRABBER DIES ON TOP DRIVE.
04:00	06:00	2.00	P	CASSURF	13	TRIP	MU SIDEBUILD BHA. (HES MM56D, RYAN 1.75" 7/8 5.0 FBH PDM, PC, EM, NMDC.) TIH TO 300' AT REPORT TIME.
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #3.							

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY 38 BLOCK 3819KH/00</div> <div>Country: USA State/OCSG: TEXAS Field/Permit#: SALT DRAW Supervisors: JOE WILKERSON / JARED FAUST Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO</div>		<div>Report Number: 003 Report Date: 05/08/2017 Spud Date: 05/07/2017 Release Date: DFS: 0.75 Last BOP T.: 05/06/2017</div> <div>API #: 4210542367 AFE Days: 6</div>																																																																																																																							
Data shared on this report is CONFIDENTIAL																																																																																																																											
Depth md/tvd (ft): 6,010.01 / 5,916.95 Progress (ft): 5,078.01 ROP: 5,078.0 / 17.50 = 290.17 Proposed TD (ft): 17,524.30 Next Csg Point (ft): 17,545.04		Rig: NABORS DRILLING/F-34 Rig Phone: 713-997-1205 RKB (ft): 2,649.01 Ground Level (ft): 2,619.0 POB: 24 Total Man Hours: 276.00																																																																																																																									
Current Activity: DRILLING TO KOP @ 6,010' (PTB INC-0.56°, AZ-277.26°, B-25°, L-5')																																																																																																																											
24 Hr Summary: FINISH TIH. SLIP & CUT DRILL LINE. LEVEL RIG. DRILL FLOAT EQUIPMENT. DRILL SIDEBUILD.																																																																																																																											
24 Hr Forecast: DRILL TO KOP. TOOH AND P/U CURVE BHA. TIH AND BUILD CURVE. TOOH FOR LATERAL BHA. DRILL LATERAL.																																																																																																																											
<div>MUD PROPERTIES</div> <div>Fluids Co.: HALLIBURTON Fluids Eng: Wesley Vaughn Time: 5:32 Oil Cnt (%): 68 Location: JCTION TANK H2O Cnt (%): 20 Pit Temp (°F): 109 Sand Cnt (%): 0.01 Depth (ft): 4,000.01 MBT (lbm/bbl): 0.0 Density (ppg): 9.30 pH: 0.0 FV (s/qt): 54 Pm (cc): 0.0 PV (cp): 11 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 9 Chloride (ppm): 0 Gels (): 8/10/12 Calcium (ppm): 0.00 WL (cc/30min): 8.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 744.0 Cake (32nd"): 2.00 LGS (%): 8.60 Solids (lbm/bbl): 91 Ex Lime (ppb): 2.3 ECD (ppg): 9.6 OWR: 77.3 / 22.7</div>		<div>MUD MATERIALS</div> <div>Mud Additives Used EZ MUL 3 SHRINK WRAP 9 INVERMUL 3 MUD ENGINEER 1 FUEL SURCHARGE 300 TAX 7,433 DRIL-TREAT 6 OIL ABSORBANT 4 CALCIUM CHLORIDE PO 80 TRANSPORTATION 312 LIME 47 FORKLIFT W/OPERATOR 1 PALLETES 10</div>		<div>BIT RECORD</div> <div>Bit# 1 S/N 12900073 Size (in) 6.75 Mfg HALLIBURTON IADC Type Model # MM56D Jets 5X16 Depth In (ft) 932 Depth Out (ft) Bit Rotations 40/60 On Btm Hrs Cum 17.50 Footage Cum (ft) 5,078 ROP Cum 290.2 WOB mn/mx (kip) 20 / 30 RPM rot/bit 40 / 60 Bit HP 1.81 HSI 1.84 PSI Drop (psi) 317.75 Jet Vel (ft/s) 195.42 Imp Force 563.02</div>		<div>CASING</div> <div>Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 16.00 70.00 / 70.00 9.63 932.00 / 932.00 5.50 17,545.04 / 6,602.01</div>																																																																																																																					
				<div>INVENTORY</div> <div>Item Inv DIESEL 13,880 MUD DIESEL 4,600</div>																																																																																																																							
				<div>SOLIDS CONTROL</div> <div>Skr Deck 1 Screens Deck 2 Screens 1 100/100/100/100 2 140/230/230/230 3 140/230/230/230</div>																																																																																																																							
<div>MUD LOGGING</div> <div>Trip Gas (units): @ BG Gas (units): Conn Gas (units) @ Form: Pore Pressure: (%) Lag Time: (min)</div>				Surf to Surf: Lag Strokes: Lag Time: (min)																																																																																																																							
				Grading I O D L B G O R Bit # Bit # 1																																																																																																																							
<div>BHA # 1</div> <table><tr><th>Qty</th><th>Item Description</th><th>ID (in)</th><th>OD (in)</th><th>Len (ft)</th><th>Cum (ft)</th></tr><tr><td>1</td><td>MM56D</td><td></td><td>8.750</td><td>1.00</td><td>1.00</td></tr><tr><td>1</td><td>RYAN 6-3/4" 7/8 5.0 1.75 FBH MUD</td><td></td><td>6.625</td><td>26.14</td><td>27.14</td></tr><tr><td>1</td><td>PONY DC</td><td>3.250</td><td>6.625</td><td>12.23</td><td>39.37</td></tr><tr><td>1</td><td>EM TOOL</td><td>2.812</td><td>6.750</td><td>27.33</td><td>66.70</td></tr><tr><td>1</td><td>NMDC</td><td>2.875</td><td>6.750</td><td>30.37</td><td>97.07</td></tr><tr><td>1</td><td>CROSSOVER</td><td>2.875</td><td>6.375</td><td>2.91</td><td>99.98</td></tr><tr><td>3</td><td>3 DRILL COLLARS</td><td>2.875</td><td>6.500</td><td>91.04</td><td>191.02</td></tr><tr><td>1</td><td>CROSSOVER</td><td>2.250</td><td>6.562</td><td>3.05</td><td>194.07</td></tr><tr><td></td><td>5" DP</td><td>4.276</td><td>5.000</td><td>5,815.94</td><td>6,010.01</td></tr><tr><td colspan="4">Total Length:</td><td colspan="2">6,010.01</td></tr></table>						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		6.625	26.14	27.14	1	PONY DC	3.250	6.625	12.23	39.37	1	EM TOOL	2.812	6.750	27.33	66.70	1	NMDC	2.875	6.750	30.37	97.07	1	CROSSOVER	2.875	6.375	2.91	99.98	3	3 DRILL COLLARS	2.875	6.500	91.04	191.02	1	CROSSOVER	2.250	6.562	3.05	194.07		5" DP	4.276	5.000	5,815.94	6,010.01	Total Length:				6,010.01		<div>STRING LOADS</div> <div>On Btm Torque: 10,000 Off Btm Torque: 4,000 Str. Wt. Up: 185 Str. Wt. Down: 165 Str. Wt. Rot.: 170 Max Over Pull: BHA PROPERTIES BHA Hrs: 18 Jar Hrs: Cum String Hours: 18 Weight B Jars (kip):</div>		<div>MUD PUMPS</div> <table><tr><th></th><th>#1</th><th>#2</th><th>#3</th></tr><tr><td>Pump Type:</td><td>DR</td><td>DR</td><td></td></tr><tr><td>Liner ID:</td><td>5.50</td><td>5.50</td><td></td></tr><tr><td>SPM:</td><td>85.00</td><td>85.00</td><td></td></tr><tr><td>GPM:</td><td>298.98</td><td>298.98</td><td></td></tr><tr><td>SPR:</td><td></td><td></td><td></td></tr><tr><td>1 SPM:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>Pressure:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>2 SPM:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>Pressure:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td colspan="2">T GPM (gpm): 598</td><td colspan="2">SPP (psi): 2,750</td></tr><tr><td colspan="2">AV (DC): 474</td><td colspan="2">AV (DP): 285</td></tr></table>			#1	#2	#3	Pump Type:	DR	DR		Liner ID:	5.50	5.50		SPM:	85.00	85.00		GPM:	298.98	298.98		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): 598		SPP (psi): 2,750		AV (DC): 474		AV (DP): 285	
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		6.625	26.14	27.14																																																																																																																						
1	PONY DC	3.250	6.625	12.23	39.37																																																																																																																						
1	EM TOOL	2.812	6.750	27.33	66.70																																																																																																																						
1	NMDC	2.875	6.750	30.37	97.07																																																																																																																						
1	CROSSOVER	2.875	6.375	2.91	99.98																																																																																																																						
3	3 DRILL COLLARS	2.875	6.500	91.04	191.02																																																																																																																						
1	CROSSOVER	2.250	6.562	3.05	194.07																																																																																																																						
	5" DP	4.276	5.000	5,815.94	6,010.01																																																																																																																						
Total Length:				6,010.01																																																																																																																							
	#1	#2	#3																																																																																																																								
Pump Type:	DR	DR																																																																																																																									
Liner ID:	5.50	5.50																																																																																																																									
SPM:	85.00	85.00																																																																																																																									
GPM:	298.98	298.98																																																																																																																									
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): 598		SPP (psi): 2,750																																																																																																																									
AV (DC): 474		AV (DP): 285																																																																																																																									
<div>SURVEYS</div> <table><tr><th>MD (ft)</th><th>Inclination (°)</th><th>Azimuth (°)</th><th>TVD (ft)</th><th>V Section (ft)</th><th>+E/-W (ft)</th><th>+N/-S (ft)</th><th>Dog Leg (°/100ft)</th></tr><tr><td>4,363</td><td>7.38</td><td>128.37</td><td>4,273</td><td>-327.82</td><td>666.17</td><td>-332.32</td><td>1.52</td></tr><tr><td>4,551</td><td>5.63</td><td>144.54</td><td>4,459</td><td>-342.73</td><td>680.99</td><td>-347.33</td><td>1.34</td></tr><tr><td>4,739</td><td>4.56</td><td>123.45</td><td>4,647</td><td>-354.29</td><td>692.58</td><td>-358.96</td><td>1.14</td></tr><tr><td>4,926</td><td>2.81</td><td>134.87</td><td>4,833</td><td>-361.55</td><td>702.03</td><td>-366.29</td><td>1.01</td></tr><tr><td>5,114</td><td>1.94</td><td>143.66</td><td>5,021</td><td>-367.33</td><td>707.18</td><td>-372.11</td><td>0.50</td></tr><tr><td>5,301</td><td>1.69</td><td>150.34</td><td>5,208</td><td>-372.26</td><td>710.42</td><td>-377.06</td><td>0.17</td></tr><tr><td>5,489</td><td>0.50</td><td>287.10</td><td>5,396</td><td>-374.42</td><td>711.01</td><td>-379.22</td><td>1.11</td></tr><tr><td>5,677</td><td>0.56</td><td>277.26</td><td>5,584</td><td>-374.08</td><td>709.32</td><td>-378.87</td><td>0.06</td></tr></table>						MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	4,363	7.38	128.37	4,273	-327.82	666.17	-332.32	1.52	4,551	5.63	144.54	4,459	-342.73	680.99	-347.33	1.34	4,739	4.56	123.45	4,647	-354.29	692.58	-358.96	1.14	4,926	2.81	134.87	4,833	-361.55	702.03	-366.29	1.01	5,114	1.94	143.66	5,021	-367.33	707.18	-372.11	0.50	5,301	1.69	150.34	5,208	-372.26	710.42	-377.06	0.17	5,489	0.50	287.10	5,396	-374.42	711.01	-379.22	1.11	5,677	0.56	277.26	5,584	-374.08	709.32	-378.87	0.06																																														
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																																																																																																																				
4,363	7.38	128.37	4,273	-327.82	666.17	-332.32	1.52																																																																																																																				
4,551	5.63	144.54	4,459	-342.73	680.99	-347.33	1.34																																																																																																																				
4,739	4.56	123.45	4,647	-354.29	692.58	-358.96	1.14																																																																																																																				
4,926	2.81	134.87	4,833	-361.55	702.03	-366.29	1.01																																																																																																																				
5,114	1.94	143.66	5,021	-367.33	707.18	-372.11	0.50																																																																																																																				
5,301	1.69	150.34	5,208	-372.26	710.42	-377.06	0.17																																																																																																																				
5,489	0.50	287.10	5,396	-374.42	711.01	-379.22	1.11																																																																																																																				
5,677	0.56	277.26	5,584	-374.08	709.32	-378.87	0.06																																																																																																																				
<div>OPERATION DETAILS</div> <table><tr><th>FROM</th><th>TO</th><th>HRS</th><th>OP CODE</th><th>PHASE</th><th>CODE</th><th>ACTIVITY</th><th>DESCRIPTION</th></tr><tr><td>06:00</td><td>07:00</td><td>1.00</td><td>P</td><td>CASSURF</td><td>13</td><td>TRIP</td><td>TIH TO 850'.</td></tr><tr><td>07:00</td><td>09:00</td><td>2.00</td><td>P</td><td>CASSURF</td><td>42</td><td>OTHER</td><td>LEVEL RIG AND CENTER BOP WITH ROTARY.</td></tr><tr><td>09:00</td><td>11:00</td><td>2.00</td><td>P</td><td>CASSURF</td><td>17</td><td>CUTSLIP</td><td>CUT & SLIP DRILL LINE.</td></tr><tr><td>11:00</td><td>12:00</td><td>1.00</td><td>P</td><td>CASSURF</td><td>72</td><td>DRLCMT</td><td>WASHED TO CMT @ 880', DRILLED CMT & FE 880'-932'.</td></tr><tr><td>12:00</td><td>21:30</td><td>9.50</td><td>P</td><td>DRLPRD</td><td>08</td><td>DRLDIR</td><td>DRILLED SIDEBUILD 932'-3,966' (SPUD WELL 5-7-2017 @ 12:00 HRS)</td></tr><tr><td>21:30</td><td>22:00</td><td>0.50</td><td>P</td><td>DRLPRD</td><td>12</td><td>RIGSVC</td><td>SERVICE RIG</td></tr><tr><td>22:00</td><td>06:00</td><td>8.00</td><td>P</td><td>DRLPRD</td><td>08</td><td>DRLDIR</td><td>DRILLED SIDEBUILD 3,966'-6,010'</td></tr></table>						FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	06:00	07:00	1.00	P	CASSURF	13	TRIP	TIH TO 850'.	07:00	09:00	2.00	P	CASSURF	42	OTHER	LEVEL RIG AND CENTER BOP WITH ROTARY.	09:00	11:00	2.00	P	CASSURF	17	CUTSLIP	CUT & SLIP DRILL LINE.	11:00	12:00	1.00	P	CASSURF	72	DRLCMT	WASHED TO CMT @ 880', DRILLED CMT & FE 880'-932'.	12:00	21:30	9.50	P	DRLPRD	08	DRLDIR	DRILLED SIDEBUILD 932'-3,966' (SPUD WELL 5-7-2017 @ 12:00 HRS)	21:30	22:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG	22:00	06:00	8.00	P	DRLPRD	08	DRLDIR	DRILLED SIDEBUILD 3,966'-6,010'																																																						
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																																																																																																				
06:00	07:00	1.00	P	CASSURF	13	TRIP	TIH TO 850'.																																																																																																																				
07:00	09:00	2.00	P	CASSURF	42	OTHER	LEVEL RIG AND CENTER BOP WITH ROTARY.																																																																																																																				
09:00	11:00	2.00	P	CASSURF	17	CUTSLIP	CUT & SLIP DRILL LINE.																																																																																																																				
11:00	12:00	1.00	P	CASSURF	72	DRLCMT	WASHED TO CMT @ 880', DRILLED CMT & FE 880'-932'.																																																																																																																				
12:00	21:30	9.50	P	DRLPRD	08	DRLDIR	DRILLED SIDEBUILD 932'-3,966' (SPUD WELL 5-7-2017 @ 12:00 HRS)																																																																																																																				
21:30	22:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG																																																																																																																				
22:00	06:00	8.00	P	DRLPRD	08	DRLDIR	DRILLED SIDEBUILD 3,966'-6,010'																																																																																																																				
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #3. (SPUD WELL 5-7-2017 @ 12:00 HRS)																																																																																																																											

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY 38 BLOCK 3819KH/00</div> <div>Country: USA State/OCSG: TEXAS Field/Permit#: SALT DRAW Supervisors: JOE WILKERSON / JARED FAUST Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO</div>		<div>Report Number: 005 Report Date: 05/10/2017 Spud Date: 05/07/2017 Release Date: DFS: 2.75 Last BOP T.: 05/06/2017</div> <div>API #: 4210542367 AFE Days: 6</div>																																																																																																																							
Data shared on this report is CONFIDENTIAL																																																																																																																											
Depth md/tvd (ft): 11,001.02/ 6,550.98 Progress (ft): 4,242.01 ROP: 4,242.0 / 20.00 = 212.10 Proposed TD (ft): 17,524.30 Next Csg Point (ft): 17,545.04		Rig: NABORS DRILLING/F-34 Rig Phone: 713-997-1205 RKB (ft): 2,649.01 Ground Level (ft): 2,619.0 POB: 23 Total Man Hours: 284.00																																																																																																																									
Current Activity: DRILLING LATERAL @ 11,001'																																																																																																																											
24 Hr Summary: TIH WITH LATERAL BHA.DRILLED CURVE 6759'-6,848";(85°) DRILL LATERAL 6,848' - 11,001'																																																																																																																											
24 Hr Forecast: DRILL LATERAL.																																																																																																																											
<div>MUD PROPERTIES</div> <div>Fluids Co.: HALLIBURTON Fluids Eng: Wesley Vaughn Time: 5:32 Oil Cnt (%): 69 Location: JCTION TANK H2O Cnt (%): 19 Pit Temp (°F): 112 Sand Cnt (%): 0.01 Depth (ft): 9,000.02 MBT (lbm/bbl): 0.0 Density (ppg): 9.30 pH: 0.0 FV (s/qt): 56 Pm (cc): 0.0 PV (cp): 13 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 12 Chloride (ppm): 0 Gels (l): 12/15/17 Calcium (ppm): 0.00 WL (cc/30min): 8.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 781.0 Cake (32nd"): 2.00 LGS (%): 8.60 Solids (lbm/bbl): 79 Ex Lime (ppb): 3.4 ECD (ppg): 9.8 OWR: 78.4 / 21.6</div>		<div>MUD MATERIALS</div> <div>Mud Additives Used BARITE 41 140 MUD ENGINEER 1 TAX 7,826 CALCIUM CHLORIDE PO 75 LIME 100 SUSPENTONE 12 GELTONE 12 Factant 1</div>		<div>BIT RECORD</div> <div>Bit# 3 S/N 7161649 Size (in) 8.50 Mfg BAKER IADC Type T606X Model # Jets 3X18 6X22 Depth In (ft) 6,759 Depth Out (ft) Bit Rotations 65/75 On Btm Hrs Cum 20.00 Footage Cum (ft) 4,242 ROP Cum 212.1 WOB mn/mx (kip) / 35 / 40 RPM rot/bit 65 / 75 Bit HP 0.90 HSI 0.40 PSI Drop (psi) 64.36 Jet Vel (ft/s) 87.95 Imp Force 258.72</div>		<div>CASING</div> <div>Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 16.00 70.00 / 70.00 9.63 932.00 / 932.00 5.50 17,545.04 / 6,602.01</div> <div>INVENTORY</div> <div>Item Inv DIESEL 16,945 MUD DIESEL 8,750</div> <div>SOLIDS CONTROL</div> <div>Skr Deck 1 Screens Deck 2 Screens 1 100/100/100/100 2 140/230/230/230 3 140/230/230/230</div>																																																																																																																					
<div>MUD LOGGING</div> <div>Tripp Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Surf to Surf: Lag Strokes: Lag Time: (min)</div>																																																																																																																											
<div>BHA # 3</div> <table><tr><th>Qty</th><th>Item Description</th><th>ID (in)</th><th>OD (in)</th><th>Len (ft)</th><th>Cum (ft)</th></tr><tr><td>1</td><td>HUGHES T-606X W/6-22'S</td><td></td><td>8.500</td><td>1.00</td><td>1.00</td></tr><tr><td>1</td><td>RYAN 1.75" 7/8 5.0 STG FBH (BTS)</td><td></td><td>6.750</td><td>29.88</td><td>30.88</td></tr><tr><td>1</td><td>PONY DC</td><td>3.250</td><td>6.750</td><td>12.23</td><td>43.11</td></tr><tr><td>1</td><td>EM TOOL</td><td>2.750</td><td>6.625</td><td>27.33</td><td>70.44</td></tr><tr><td>1</td><td>NMDC</td><td>3.250</td><td>6.750</td><td>30.37</td><td>100.81</td></tr><tr><td>90</td><td>5" D.P.</td><td>4.276</td><td>5.000</td><td>2,814.55</td><td>2,915.36</td></tr><tr><td>1</td><td>AGITATOR</td><td>2.500</td><td>6.750</td><td>12.96</td><td>2,928.32</td></tr><tr><td>1</td><td>SHOCK SUB</td><td>2.500</td><td>6.750</td><td>11.95</td><td>2,940.27</td></tr><tr><td>504</td><td>5" DP</td><td>4.276</td><td>5.000</td><td>8,060.76</td><td>11,001.02</td></tr><tr><td colspan="4">Total Length:</td><td></td><td>11,001.02</td></tr></table>		Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	1	HUGHES T-606X W/6-22'S		8.500	1.00	1.00	1	RYAN 1.75" 7/8 5.0 STG FBH (BTS)		6.750	29.88	30.88	1	PONY DC	3.250	6.750	12.23	43.11	1	EM TOOL	2.750	6.625	27.33	70.44	1	NMDC	3.250	6.750	30.37	100.81	90	5" D.P.	4.276	5.000	2,814.55	2,915.36	1	AGITATOR	2.500	6.750	12.96	2,928.32	1	SHOCK SUB	2.500	6.750	11.95	2,940.27	504	5" DP	4.276	5.000	8,060.76	11,001.02	Total Length:					11,001.02	<div>STRING LOADS</div> <div>On Btm Torque: 17,000 Off Btm Torque: 6,000 Str. Wt. Up: 234 Str. Wt. Down: 148 Str. Wt. Rot.: 170 Max Over Pull: BHA PROPERTIES BHA Hrs: 20 Jar Hrs: Cum String Hours: 20 Weight B Jars (kip):</div>		<div>MUD PUMPS</div> <table><tr><th></th><th>#1</th><th>#2</th><th>#3</th></tr><tr><td>Pump</td><td>DR</td><td>DR</td><td></td></tr><tr><td>Type:</td><td></td><td></td><td></td></tr><tr><td>Liner ID:</td><td>5.50</td><td>5.50</td><td></td></tr><tr><td>SPM:</td><td>85.00</td><td>85.00</td><td></td></tr><tr><td>GPM:</td><td>305.28</td><td>305.28</td><td></td></tr><tr><td>SPR:</td><td></td><td></td><td></td></tr><tr><td>1 SPM:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>Pressure:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>2 SPM:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td>Pressure:</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td colspan="2">T GPM (gpm): 600</td><td colspan="2">SPP (psi): 3,875</td></tr><tr><td colspan="2">AV (DC): 490</td><td colspan="2">AV (DP): 311</td></tr></table>			#1	#2	#3	Pump	DR	DR		Type:				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): 3,875		AV (DC): 490		AV (DP): 311	
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)																																																																																																																						
1	HUGHES T-606X W/6-22'S		8.500	1.00	1.00																																																																																																																						
1	RYAN 1.75" 7/8 5.0 STG FBH (BTS)		6.750	29.88	30.88																																																																																																																						
1	PONY DC	3.250	6.750	12.23	43.11																																																																																																																						
1	EM TOOL	2.750	6.625	27.33	70.44																																																																																																																						
1	NMDC	3.250	6.750	30.37	100.81																																																																																																																						
90	5" D.P.	4.276	5.000	2,814.55	2,915.36																																																																																																																						
1	AGITATOR	2.500	6.750	12.96	2,928.32																																																																																																																						
1	SHOCK SUB	2.500	6.750	11.95	2,940.27																																																																																																																						
504	5" DP	4.276	5.000	8,060.76	11,001.02																																																																																																																						
Total Length:					11,001.02																																																																																																																						
	#1	#2	#3																																																																																																																								
Pump	DR	DR																																																																																																																									
Type:																																																																																																																											
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): 3,875																																																																																																																									
AV (DC): 490		AV (DP): 311																																																																																																																									
<div>SURVEYS</div> <table><tr><th>MD (ft)</th><th>Inclination(°)</th><th>Azimuth (°)</th><th>TVD (ft)</th><th>V Section (ft)</th><th>+E/-W (ft)</th><th>+N/-S (ft)</th><th>Dog Leg (°/100ft)</th></tr><tr><td>10,108</td><td>90.81</td><td>0.58</td><td>6,541</td><td>3,344.04</td><td>710.61</td><td>3,339.33</td><td>2.46</td></tr><tr><td>10,202</td><td>86.63</td><td>357.06</td><td>6,543</td><td>3,437.95</td><td>708.68</td><td>3,433.25</td><td>5.81</td></tr><tr><td>10,295</td><td>89.56</td><td>358.82</td><td>6,546</td><td>3,530.80</td><td>705.34</td><td>3,526.12</td><td>3.67</td></tr><tr><td>10,389</td><td>88.69</td><td>358.99</td><td>6,547</td><td>3,624.76</td><td>703.54</td><td>3,620.10</td><td>0.94</td></tr><tr><td>10,483</td><td>89.00</td><td>0.40</td><td>6,549</td><td>3,718.73</td><td>703.04</td><td>3,714.07</td><td>1.54</td></tr><tr><td>10,577</td><td>90.13</td><td>2.33</td><td>6,550</td><td>3,812.70</td><td>705.28</td><td>3,808.04</td><td>2.38</td></tr><tr><td>10,671</td><td>89.50</td><td>1.81</td><td>6,550</td><td>3,906.66</td><td>708.68</td><td>3,901.98</td><td>0.87</td></tr><tr><td>10,764</td><td>89.94</td><td>3.04</td><td>6,551</td><td>3,999.60</td><td>712.61</td><td>3,994.89</td><td>1.40</td></tr></table>								MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	10,108	90.81	0.58	6,541	3,344.04	710.61	3,339.33	2.46	10,202	86.63	357.06	6,543	3,437.95	708.68	3,433.25	5.81	10,295	89.56	358.82	6,546	3,530.80	705.34	3,526.12	3.67	10,389	88.69	358.99	6,547	3,624.76	703.54	3,620.10	0.94	10,483	89.00	0.40	6,549	3,718.73	703.04	3,714.07	1.54	10,577	90.13	2.33	6,550	3,812.70	705.28	3,808.04	2.38	10,671	89.50	1.81	6,550	3,906.66	708.68	3,901.98	0.87	10,764	89.94	3.04	6,551	3,999.60	712.61	3,994.89	1.40																																												
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																																																																																																																				
10,108	90.81	0.58	6,541	3,344.04	710.61	3,339.33	2.46																																																																																																																				
10,202	86.63	357.06	6,543	3,437.95	708.68	3,433.25	5.81																																																																																																																				
10,295	89.56	358.82	6,546	3,530.80	705.34	3,526.12	3.67																																																																																																																				
10,389	88.69	358.99	6,547	3,624.76	703.54	3,620.10	0.94																																																																																																																				
10,483	89.00	0.40	6,549	3,718.73	703.04	3,714.07	1.54																																																																																																																				
10,577	90.13	2.33	6,550	3,812.70	705.28	3,808.04	2.38																																																																																																																				
10,671	89.50	1.81	6,550	3,906.66	708.68	3,901.98	0.87																																																																																																																				
10,764	89.94	3.04	6,551	3,999.60	712.61	3,994.89	1.40																																																																																																																				
<div>OPERATION DETAILS</div> <table><tr><th>FROM</th><th>TO</th><th>HRS</th><th>OP CODE</th><th>PHASE</th><th>CODE</th><th>ACTIVITY</th><th>DESCRIPTION</th></tr><tr><td>06:00</td><td>10:00</td><td>4.00</td><td>P</td><td>DRLPRD</td><td>13</td><td>TRIP</td><td>MU LATERAL BHA (HUGHES T606X, RYAN 1.75" 7/8 6.4 FBH PDM, PC, EM, NMDC). INSTALLED SHOCK/AGITATOR 30 STANDS IN. TIH FILLING DP E/30 STANDS.</td></tr><tr><td>10:00</td><td>11:00</td><td>1.00</td><td>P</td><td>DRLPRD</td><td>10</td><td>DRLLAT</td><td>DRILLED CURVE 6759'-6,848"; (85 DEG.)</td></tr><tr><td>11:00</td><td>06:00</td><td>19.00</td><td>P</td><td>DRLPRD</td><td>10</td><td>DRLLAT</td><td>DRILLED LATERAL 6,848'- 11,001'</td></tr></table>								FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	06:00	10:00	4.00	P	DRLPRD	13	TRIP	MU LATERAL BHA (HUGHES T606X, RYAN 1.75" 7/8 6.4 FBH PDM, PC, EM, NMDC). INSTALLED SHOCK/AGITATOR 30 STANDS IN. TIH FILLING DP E/30 STANDS.	10:00	11:00	1.00	P	DRLPRD	10	DRLLAT	DRILLED CURVE 6759'-6,848"; (85 DEG.)	11:00	06:00	19.00	P	DRLPRD	10	DRLLAT	DRILLED LATERAL 6,848'- 11,001'																																																																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																																																																																																				
06:00	10:00	4.00	P	DRLPRD	13	TRIP	MU LATERAL BHA (HUGHES T606X, RYAN 1.75" 7/8 6.4 FBH PDM, PC, EM, NMDC). INSTALLED SHOCK/AGITATOR 30 STANDS IN. TIH FILLING DP E/30 STANDS.																																																																																																																				
10:00	11:00	1.00	P	DRLPRD	10	DRLLAT	DRILLED CURVE 6759'-6,848"; (85 DEG.)																																																																																																																				
11:00	06:00	19.00	P	DRLPRD	10	DRLLAT	DRILLED LATERAL 6,848'- 11,001'																																																																																																																				
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #3. (SPUD WELL 5-7-2017 @ 12:00 HRS) KOP 6122', 85° @ 6,848'.																																																																																																																											

