

[illegible]




Fuel						
FUEL TYPE	VENDOR	BEG QTY	RECEIVED QTY	TOTAL QTY	QTY USED	QTY REMAINING
Diesel	Fuel Source	1,752	0	1,752	330	1,422

SAFETY MEETING / JOB SAFETY ANALYSIS		
	DAYLIGHT TOUR	MORNING TOUR
TOPIC	R/U	DRG
JSA	FORKLIFT OPERATION	FALLING PIPE
STOP CARDS	0	0
NEAR MISSES	0	0

EP ENERGY			Daily Drilling Report Onshore						Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AV/00 Country: USA State/OCSG TEXAS Field/Permit#: WOLFCAMP CENTRAL Supervisors: BRAD MACAFEE / JOE WILKERSON Engineer/Manager: WILLIAMS, RYAN / MARES, SERGIO								Report Number: 002 API #: 4238339687 Report Date: 10/08/2016 Spud Date: Release Date: DFS: 0.00 DOL: 1 AFE Days: 8 Last BOP T.:																																						
Data shared on this report is CONFIDENTIAL																																																							
Depth md/tvd (ft): 1,197.00 / 1,197.00 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 18,527.80 Next Csg Point: 1,197.00														Rig: NABORS DRILLING/888 Rig Phone: 713-997-1160 RKB (ft): 2,858.01 Ground Level (ft): 2,832.0 POB: 69 Total Man Hours: 789.00																																									
Current Activity: RIGGING UP. (90% MI. 40% RU). 24 Hr Summary: MIRU. (90% MI. 40% RU) 24 Hr Forecast: FINISH MOVING IN. CONTINUE RIGGING UP. BUILD, PIN, & DRESS DERRICK. RAISE DERRICK & SUB.																																																							
MUD PROPERTIES														MUD MATERIALS														BIT RECORD														CASING													
Fluids Co.: Fluids Eng:																												Bit# S/N Size (in) Mfg IADC Type Model # Jets Depth In (ft) Depth Out (ft) Bit Rotations On Btm Hrs Cum Footage Cum (ft) ROP Cum WOB mn/mx (kip) RPM rot/bit Bit HP HSI PSI Drop (psi) Jet Vel (ft/s) Imp Force														Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 14.00 67.00 / 67.00 9.63 1,197.00 / 1,197.00													
Time: Location: Pit Temp: Depth: Density: FV: PV: YP: Gels: WL: HTHP: Cake: Solids: ECD:														Oil Cnt: H2O Cnt: Sand Cnt: MBT: pH: Pm: Pt/Mf: Chloride: Calcium: LCM: ES (mV): LGS: Ex Lime (ppb): OWR:														Mud Additives Used														INVENTORY													
																												Item Inv DIESEL 9,656 RIG DIESEL 0																											
																												SOLIDS CONTROL																											
																												Skr Deck 1 Screens Deck 2 Screens 1 100/// 2 100/// 3 100///																											
MUD LOGGING																																																							
Trip Gas (units): @ BG Gas (units): Surf to Surf: Conn Gas (units) @ Lag Strokes: Form: Pore Pressure: (%) Lag Time: (min)														Grading I O D L B G O R Bit # Bit #																																									
														MUD PUMPS																																									
														#1 #2 #3																																									
														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)							V Section (ft)							+E/-W (ft)							+N/-S (ft)							Dog Leg (°/100ft)						
OPERATION DETAILS																																																							
FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION																																																							
06:00 06:00 24.00 P MIRU 01 MIRU MI & RU WITH RIG RUNNERS. 90% MI. 40% RU. RU CREW TRAILERS. BREAK & HAUL DERRICK & SUBS. SET SUBS. RU AERION SOLIDS CONTROL. SET BACK YARD.																																																							
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #2.																																																							

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AV/00</div> <div>Country: USA State/OCSG TEXAS Field/Permit#: WOLFCAMP CENTRAL Supervisors: BRAD MACAFEE / JOE WILKERSON Engineer/Manager: WILLIAMS, RYAN / MARES, SERGIO</div>				<div>Report Number: 006 API #: 4238339687</div> <div>Report Date: 10/12/2016 Spud Date: 10/09/2016 Release Date: DFS: 2.69 DOL: 5 AFE Days: 8 Last BOP T.: 10/09/2016</div>													
Data shared on this report is CONFIDENTIAL																			
Depth md/tvd (ft): 9,635.02 / 9,578.57 Progress (ft): 1,515.00 ROP: 1,515.0 / 13.00 = 116.54 Proposed TD (ft): 18,527.80 Next Csg Point: 1,197.00						Rig: NABORS DRILLING/888 Rig Phone: 713-997-1160 RKB (ft): 2,858.01 Ground Level (ft): 2,832.0 POB: 25 Total Man Hours: 300.00													
Current Activity: DRILLING VERTICAL @ 9,635'. (PTB: 1.3° INC / 166° AZM) 24 Hr Summary: DRILL VERTICAL SECTION TO 9,081' (BIT TRIP). CIRC HOLE CLEAN. POOH. P/U NEW MOTOR / BIT, TIH. DRILL VERTICAL SECTION. 24 Hr Forecast: DRILL VERTICAL SECTION TO TD. CIRC HOLE CLEAN. POOH. L/D BHA. LOG WELL W/ SCHLUMBERGER (2 RUNS: 1ST = TRIPLE COMBO / LITHO SCANNER & 2ND = SONIC SCANNER / UBI)																			
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING							
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN								Bit# 1 S/N 12831604 Size (in) 8.75 Mfg HALLIBURTON IADC Type Model # MM56D Jets 5X16 Depth In (ft) 1,197 Depth Out (ft) 9,081 Bit Rotations 40/60 On Btm Hrs Cum 9.00 Footage Cum (ft) 3,816 ROP Cum 221.4 WOB mn/mx (kip) 25 / 30 RPM rot/bit 40 / 60 Bit HP 1.73 HSI 1.76 PSI Drop (psi) 300.67 Jet Vel (ft/s) 195.42 Imp Force 543.67				2 7160596 8.75 BAKER T606X 6X15 9,081 10,077 40/50 4.00 554 138.5 5 / 30 40 / 50 1.69 1.63 278.33 186.96 520.14				Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 14.00 67.00 / 67.00 9.63 1,197.00 / 1,197.00 /			
Time: 0:00 Oil Cnt (%): 67 Location: PIT H2O Cnt (%): 24 Pit Temp (°F): 118 Sand Cnt (%): 0.00 Depth (ft): 9,081.02 MBT (lbm/bbl): 0.0 Density (ppg): 8.90 pH: 0.0 FV (s/qt): 50 Pm (cc): 0.0 PV (cp): 13 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 12 Chloride (ppm): 0 Gels (l): 8/10/11 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 527.0 Cake (32nd"): 2.00 LGS (%): 5.40 Solids (lbm/bbl): 57 Ex Lime (ppb): 5.4 ECD (ppg): 8.9 OWR: 73.8 / 26.4				Mud Additives Used ENGINEER 24 HOURS 1 GELTONE 20 RM-63 1 OIL ABSORBANT 5 INVERMUL 1 LIME 75 DRILLTREAT 1 CALCIUM CHLORIDE PO 168 DURATONE HT 3 BAROID 41 2 BARITE 41 133															
												INVENTORY							
												Item Inv RIG DIESEL 11,201 MUD DIESEL 5,737							
												SOLIDS CONTROL							
												Skr Deck 1 Screens Deck 2 Screens 1 100/// 2 100/// 3 100///							

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AV/00</div> <div>Country: USA State/OCSG TEXAS Field/Permit#: WOLFCAMP CENTRAL Supervisors: DEREK MOTLEY / WESTON WHITE Engineer/Manager: WILLIAMS, RYAN / MARES, SERGIO</div>		<div>Report Number: 007 Report Date: 10/13/2016 Spud Date: 10/09/2016 Release Date: DFS: 3.69 DOL: 6 AFE Days: 8 Last BOP T.: 10/09/2016</div>				
Data shared on this report is CONFIDENTIAL								
Depth md/tvd (ft): 10,077.02 / 10,020.45 Progress (ft): 442.00 ROP: 442.0 / 8.00 = 55.25 Proposed TD (ft): 18,527.80 Next Csg Point: 1,197.00		Rig: NABORS DRILLING/888 Rig Phone: 713-997-1160 RKB (ft): 2,858.01 Ground Level (ft): 2,832.0 POB: 25 Total Man Hours: 300.00						
Current Activity: RUNNING SCHLUMBERGER TRIPLE COMBO & LITHO SCANNER. 24 Hr Summary: DRILL VERTICAL SECTION TO TD. CIRC HOLE CLEAN. POOH. LD BHA. LOG WELL W/ SCHLUMBERGER. 24 Hr Forecast: FINISH LOGGING WELL.								
MUD PROPERTIES		MUD MATERIALS		BIT RECORD				
Fluids Co.: HALLIBURTON Fluids Eng: CJ KIRK				Bit# 2 S/N 7160596 Size (in) 8.75 Mfg BAKER IADC Type Model # T606X				
Time: 0:00 Oil Cnt (%): 68 Location: JCTION TANK H2O Cnt (%): 24 Pit Temp (°F): 129 Sand Cnt (%): 0.00 Depth (ft): 10,077.02 MBT (lbm/bbl): 0.0 Density (ppg): 8.90 pH: 0.0 FV (s/qt): 50 Pm (cc): 0.0 PV (cp): 13 Pf (cc):/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 9 Chloride (ppm): 0 Gels (l): 7/9/10 Calcium (ppm): 0.00 WL (cc/30min): 8.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 500.0 Cake (32nd"): 1.00 LGS (%): 4.40 Solids (lbm/bbl): 57 Ex Lime (ppb): 5.4 ECD (ppg): 8.9 OWR: 74.0 / 26.0		Mud Additives Used BAROID 41 48 RM-63 1 BARITE 41 27 ENGINEER 24 HOURS 1 CALCIUM CHLORIDE PO 56 GELTONE 8 LIME 12 Factant 1		Jets 6X15 Depth In (ft) 9.081 Depth Out (ft) 10.077 Bit Rotations 40/50 On Btm Hrs Cum 12.00 Footage Cum (ft) 996 ROP Cum 83.0 WOB mn/mx (kip) / 5 / 30 RPM rot/bit / 40 / 50 Bit HP 1.69 HSI 1.63 PSI Drop (psi) 278.33 Jet Vel (ft/s) 186.96 Imp Force 520.14				
MUD LOGGING				Grading I O D L B G O R Bit # 1 3 BT S X I CT TD				
Trip Gas (units): @ Conn Gas (units) @ Form:		BG Gas (units): Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)				
BHA # 2		STRING LOADS		MUD PUMPS				
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 11,000 Off Btm Torque: 3,500 Str. Wt. Up: 275 Str. Wt. Down: 235 Str. Wt. Rot.: 250 Max Over Pull:	Pump Type: Liner ID: 0.00 SPM: 0.00 GPM: 0.00 SPR: 1 SPM: 0.00 Pressure: 0.00 2 SPM: 0.00 Pressure: 0.00	#1 #2 #3
1	BAKER HUGHES T606X		8.750	1.00	1.00			
1	RYAN 6-3/4" 7/8 5.0 1.75 FBH MUD		6.750	25.76	26.76			
1	PONY DC	2.750	6.750	15.09	41.85			
1	EM TOOL	3.250	6.750	28.58	70.43			
1	MP TOOL	2.875	6.500	32.37	102.80			
1	NMDC	3.125	6.625	30.56	133.36			
1	CROSSOVER	2.750	6.375	3.50	136.86			
3	3 DRILL COLLARS	2.875	6.500	92.46	229.32			
1	CROSSOVER	2.250	6.500	3.03	232.35			
5"	DP	4.276	5.000	9,844.67	10,077.02			
Total Length:					10,077.02	BHA Hrs: 8 Jar Hrs: Cum String Hours: 12 Weight B Jars (kip):	T GPM (gpm): 600 AV (DC): 428	SPP (psi): 3,600 AV (DP): 285
SURVEYS								
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	
8,224	1.81	165.93	8,168	-520.22	-421.35	528.94	0.33	
8,413	1.88	158.02	8,357	-514.49	-419.47	523.17	0.14	
8,602	1.94	159.60	8,546	-508.67	-417.19	517.29	0.04	
8,790	2.06	135.34	8,734	-503.35	-413.71	511.91	0.45	
8,979	2.13	128.84	8,923	-498.84	-408.59	507.29	0.13	
9,168	1.63	136.57	9,112	-494.78	-404.00	503.13	0.30	
9,358	1.19	140.09	9,302	-491.37	-400.88	499.66	0.24	
9,547	1.31	166.63	9,491	-487.80	-399.12	496.05	0.31	
OPERATION DETAILS								
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	
06:00	14:00	8.00	P	DRLPRD	07	DRLVERT	DRILL VERTICAL 9,635' - 10,077' (PILOT TD).	
14:00	16:00	2.00	P	DRLPRD	15	CIRC	CIRC 3 BU WHILE RECIPROCATING PIPE 95' W/ 75 RPM & 600 GPM.	
16:00	21:00	5.00	P	DRLPRD	13	TRIP	POOH. HOLE SLICK. LD DIRECTIONAL TOOLS.	
21:00	21:30	0.50	P	EVLPRD	22	LOGFORM	PJSM. CLEAR RIG FLOOR.	
21:30	06:00	8.50	P	EVLPRD	22	LOGFORM	RU SCHLUMBERGER W/L. RIH W/ TRIPLE COMBO & LITHO SCANNER.	
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #2.								

		Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AV/00		Report Number: 009		API #: 4238339687					
				Country: USA		Report Date: 10/15/2016		Spud Date: 10/09/2016					
				State/OCSG: TEXAS		Release Date:		DFS: 5.69		DOL: 8		AFE Days: 8	
				Field/Permit#: WOLFCAMP CENTRAL		Last BOP T.: 10/09/2016							
				Supervisors: DEREK MOTLEY / WESTON WHITE									
Data shared on this report is CONFIDENTIAL		Engineer/Manager: WILLIAMS, RYAN / MARES, SERGIO											
OPERATION DETAILS													
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION						
20:00	20:30	0.50	P	ABDSUSP	13	TRIP	PULL 5 STANDS + SINGLE TO 2,889'. DROP NERF BALL & CIRC 1.5X BU. RECEIVED SPACER BACK. FULL RETURNS. EST TOC PLUG #5 @ 2,907'.						
20:30	00:00	3.50	P	ABDSUSP	14	PULDSTR	PUMP SLUG. LD DRILL PIPE WHILE WOC.						
00:00	02:00	2.00	P	ABDSUSP	16	WASHR	TIH TO 1,988'. WASH DOWN W/ 225 GPM & TAGGED HARD CMT @ 3,020' W/ 225 GPM & 10K.						
02:00	03:00	1.00	P	ABDSUSP	13	TRIP	POOH TO 1,258' (61' BENEATH SURF SHOE).						
03:00	03:30	0.50	P	ABDSUSP	38	SETCEM	SWAP LINES. PUMP 20 BBLS 10 PPG SPACER. PUMP 39.6 BBLS 14.8 PPG CMT (160 SX @ 1.39 YLD). PUMP 6.5 BBLS 10 PPG SPACER. DISPLACED WITH 6 BBLS 8.95 PPG OBM. FULL RETURNS DURING JOB.						
03:30	04:00	0.50	P	ABDSUSP	13	TRIP	PULL 5 STANDS + DOUBLE TO 725'. DROP NERF BALL & CIRC 1.5X BU. RECEIVED SPACER BACK. FULL RETURNS. EST TOC PLUG #6 @ 744'.						
04:00	06:00	2.00	P	ABDSUSP	14	PULDSTR	TOOH. LD DRILL PIPE WHILE WOC.						
Daily Operations Comments													
UTILIZING DIRECTIONAL PLAN #2.													

<div><div></div><div>Daily Drilling Report Onshore</div></div>						Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AH/01							Report Number: 012 API #: 4238339687																							
						Country: USA							Report Date: 12/10/2016																							
						State/OCSG TEXAS							Spud Date: 10/09/2016																							
						Field/Permit#: WOLFCAMP CENTRAL							Release Date:																							
						Supervisors: JOE WILKERSON / CHAD SURBER							DFS: 8.69 DOL: 11 AFE Days: 8																							
						Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO							Last BOP T.: 10/09/2016																							
Depth md/tvd (ft): 10,081.02 / 10,081.02												Rig:																								
Progress:												Rig Phone: (713) 997-1205																								
ROP: / = 0.00												RKB (ft): 2,862.01																								
Proposed TD (ft):												Ground Level (ft): 2,832.0																								
Next Csg Point: 0.00												POB: 64 Total Man Hours: 732.00																								
Current Activity: MI & RU.																																				
24 Hr Summary: 75% MI & 20% RU.																																				
24 Hr Forecast: MI & RU.																																				
MUD PROPERTIES												MUD MATERIALS						BIT RECORD									CASING									
Fluids Co.: HALLIBURTON												Time: 0:00 Oil Cnt (%): 67 Location: JCTION TANK H2O Cnt (%): 25 Pit Temp ("F": 108 Sand Cnt (%): 0.00 Depth (ft): 10,081.02 MBT (lbm/bbl): 0.0 Density (ppg): 8.95 pH: 0.0 FV (s/qt): 52 Pm (cc): 0.0 PV (cp): 12 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lbf/100ft²): 9 Chloride (ppm): 0 Gels (:): 7/10/12 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP ("F"): 250 ES (mV): 500.0 Cake (32nd"): 1.00 LGS (%): 4.40 Solids (lbm/bbl): 56 Ex Lime (ppb): 5.0 ECD (ppg): 9.0 OWR: 73.0 / 27.0						Bit# S/N Size (in) Mfg IADC Type Model # Jets Depth In (ft) Depth Out (ft) Bit Rotations On Btm Hrs Cum Footage Cum (ft) ROP Cum WOB mn/mx (kip) / / RPM rot/bit / / Bit HP HSI PSI Drop (psi) Jet Vel (ft/s) Imp Force									Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)									
Fluids Eng: CJ KIRK																																				
Mud Additives Used																																				
INVENTORY																																				
Item Inv																																				
RIG DIESEL 5,947																																				
SOLIDS CONTROL																																				
Skr Deck 1 Screens Deck 2 Screens																																				
1																																				
2																																				
3																																				
4																																				
MUD LOGGING																																				
Trip Gas (units): @ BG Gas (units): Surf to Surf: Conn Gas (units): @ Lag Strokes: (min) Form: Pore Pressure: (%) Lag Time:												Grading I O D L B G O R Bit # Bit #																								
MUD PUMPS																																				
#1 #2 #3																																				
Pump Type:																																				
Liner ID:																																				
SPM:																																				
GPM:																																				
SPR:																																				
1 SPM:																																				
Pressure:																																				
2 SPM:																																				
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T GPM (gpm): SPP (psi):																																				
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MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft)																																				
OPERATION DETAILS																																				
FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION																																				
06:00 06:00 24.00 P MIRU 01 MIRU PJSM WITH DEEP WELL SERVICES & NABORS. MI & RU NABORS F34. 75% MI & 20% RU. 16 - HAUL TRUCKS, 4 CRANES, 2 FORK LIFTS AND 2 TANDEMS. FINISH SETTING MUD TANKS, SET MUD PUMPS, LAY OUT MATS, SET SUBS AND CENTER STEEL & DRAWWORKS, SET BOTTOM PART OF DERRICK ON FLOOR. SET & RU CREW HOUSES. WELDER MODIFYING SHAKER SLIDES. WELDER FABING AND INSTALLING WALKWAY FOR DRYING SHAKERS. NABORS WELDER FABPING PLUGS FOR UNUSED MUD TANK VALVE OUTLETS. CONTINUE RIGGING UP ON MUD TANKS. WELDER REPLACING STANDPIPE HAMMER UNIONS. REPLACED BRAKE PADS ON TOP DRIVE, CHANGE OUT ENCODER ON TOP DRIVE. ALSO INSPECT WELDS ON WALKING PACKAGE. 32 TOTAL LOADS TODAY.																																				
Daily Operations Comments																																				
UTILIZING DIRECTIONAL PLAN #4.																																				

<div><div></div><div>Daily Drilling Report Onshore</div></div>						<div>Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AH/00</div> <div>Country: USA</div> <div>State/OCSG: TEXAS</div> <div>Field/Permit#: WOLFCAMP CENTRAL</div> <div>Supervisors: JOE WILKERSON / CHAD SURBER</div> <div>Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO</div>							<div>Report Number: 016 API #: 4238339687</div> <div>Report Date: 12/14/2016</div> <div>Spud Date: 10/09/2016</div> <div>Release Date:</div> <div>DFS: 12.69 DOL: 15 AFE Days: 8</div> <div>Last BOP T.: 10/09/2016</div>																		
<div>**Data shared on this report is CONFIDENTIAL**</div>																															
<div>Depth md/tvd (ft): 10,081.02 / 10,024.52</div> <div>Progress:</div> <div>ROP: / = 0.00</div> <div>Proposed TD (ft): 18,531.80</div> <div>Next Csg Point: 1,201.00</div>						<div>Rig: NABORS DRILLING/F-34</div> <div>Rig Phone: 713-997-1205</div> <div>RKB (ft): 2,862.01</div> <div>Ground Level (ft): 2,832.0</div> <div>POB: 30 Total Man Hours: 359.00</div>																									
<div>Current Activity: CORRECTING RIG INSPECTION ANOMALIES.</div> <div>24 Hr Summary: 90% RU, CONTINUE RIGGING UP BUSTER & RIG FLOOR. CORRECT ANOMALIES.</div> <div>24 Hr Forecast: CONTINUE RIGGING UP. REPAIR PRAGMA, TRANSFER MUD, PRESSURE TEST MUD LINE, PLUMB IN ST80 HYDRAULIC LINES. TEST RIG EQUIPMENT. CONTINUE CORRECTING RIG INSPECTION ANOMALIES.</div>																															
MUD PROPERTIES						MUD MATERIALS						BIT RECORD						CASING													
<div>Fluids Co.: HALLIBURTON</div> <div>Fluids Eng: CJ KIRK</div> <div>Time: 0:00 Oil Cnt (%): 67</div> <div>Location: JCTION TANK H2O Cnt (%): 25</div> <div>Pit Temp ("F: 108 Sand Cnt (%): 0.00</div> <div>Depth (ft): 10,081.02 MBT (lbm/bbl): 0.0</div> <div>Density (ppg): 8.95 pH: 0.0</div> <div>FV (s/qt): 52 Pm (cc): 0.0</div> <div>PV (cp): 12 Pf (cc)/Mf (cc): 0.0 / 0.0</div> <div>YP (lbf/100ft²): 9 Chloride (ppm): 0</div> <div>Gels (l): 7/10/12 Calcium (ppm): 0.00</div> <div>WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0</div> <div>HTHP ("F): 250 ES (mV): 500.0</div> <div>Cake (32nd"): 1.00 LGS (%): 4.40</div> <div>Solids (lbm/bbl): 56 Ex Lime (ppb): 5.0</div> <div>ECD (ppg): 9.0 OWR: 73.0 / 27.0</div>						<div>Mud Additives Used</div>						<div>Bit#</div> <div>S/N</div> <div>Size (in)</div> <div>Mfg</div> <div>IADC Type</div> <div>Model #</div> <div>Jets</div> <div>Depth In (ft)</div> <div>Depth Out (ft)</div> <div>Bit Rotations</div> <div>On Btm Hrs Cum</div> <div>Footage Cum (ft)</div> <div>ROP Cum</div> <div>WOB mn/mx (kip) / /</div> <div>RPM rot/bit / /</div> <div>Bit HP</div> <div>HSI</div> <div>PSI Drop (psi)</div> <div>Jet Vel (ft/s)</div> <div>Imp Force</div> <div>Grading I O D L B G O R</div> <div>Bit #</div> <div>Bit #</div>						<div>Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)</div> <div>14.00 71.00 / 71.00</div> <div>9.63 1,201.00 / 1,201.00</div> <div>/</div>													
																		INVENTORY													
<div>Item</div> <div>RIG DIESEL</div>																		<div>Inv</div> <div>12,242</div>													
SOLIDS CONTROL																															
Skr						Deck 1 Screens						Deck 2 Screens																			
1 100///																															
2 100///																															
3 100///																															
4																															
																		MUD PUMPS													
						#1						#2						#3													
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)				V Section (ft)				+E/-W (ft)				+N/-S (ft)				Dog Leg (°/100ft)			
9,172				1.63				136.57				9,116				-494.78				-404.00				503.13				0.30			
9,362				1.19				140.09				9,306				-491.37				-400.88				499.66				0.24			
9,551				1.31				166.63				9,495				-487.80				-399.12				496.05				0.31			
9,741				0.75				173.31				9,685				-484.46				-398.47				492.70				0.30			
9,930				1.00				224.81				9,874				-482.04				-399.49				490.30				0.42			
10,005				1.00				225.87				9,949				-481.11				-400.42				489.38				0.02			
10,025				1.19				235.71				9,969				-480.86				-400.72				489.15				1.33			
10,081				1.19				235.71				10,025				-480.19				-401.68				488.49				0.00			
OPERATION DETAILS																															
FROM		TO		HRS		OP CODE		PHASE		CODE		ACTIVITY		DESCRIPTION																	
06:00		06:00		24.00		P		MIRU		01		MIRU		CONTINUED RIGGING UP & MAKING REPAIRS TO RIG EQUIPMENT. 90% RU. NABORS 3RD PARTY INSTALLING LIGHTING AROUND RIG, WELDERS FABRICATING FLOW LINE MANIFOLD, FUNCTION TEST TOP DRIVE, HAD BLOWER MOTOR FAILURE, CANRIG TROUBLE SHOOTING TOP DRIVE BLOWER FAILURE, CHANGE BLOWER AC BUCKET, TEST TOP DRIVE, FIX HOLES ON MUD PITS, RELOCATE DUMP LINE ON FLOW LINE. RAN DRAW-WORKS, WALKED RIG TO CHECK OPERATION OF THE WALKING PACKAGE (ALL OK) FUNCTION TEST BOP FROM KOOMEY UNIT (ALL OK) ATTEMPT TO FUNCTION TEST BOP FROM DRILL FLOOR REMOTE WITHOUT SUCCESS, NABORS 3RD PARTY REPAIRED KOOMEY UNIT. WORK ON CORRECTING RIG INSPECTION ANOMALIES. CHANGE DIES ON TOP DRIVE BACK UP WRENCH, INSTALL BAILS, TIW, & IBOP ON TOP DRIVE. ALL GUN LINES PLUGGED WITH DRIED OUT MUD ON MUD TANKS, START UNPLUGGING SAME. HOOK UP MIXING HOPPER #2, FIX TOP DRIVE BLOWER. RUN VENT LINE FROM BUSTER. REMOTE KOOMEY WORKING. INSTALL CHECK VALVE & KILL LINE VALVES ON BOP.																	
Daily Operations Comments																															
UTILIZING DIRECTIONAL PLAN #4.																															

EP ENERGY

Daily Drilling
Report Onshore

Well Name/Wellbore No.:
UNIVERSITY CENTRAL 0810AH/01

Country: USA
State/OCSG TEXAS
Field/Permit#: WOLFCAMP CENTRAL
Supervisors: JOE WILKERSON / CHAD SURBER
Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO

Report Number: 020
Report Date: 12/18/2016
Spud Date: 10/09/2016
Release Date:
DFS: 16.69
Last BOP T.: 10/09/2016

API #: 4238339687

AFE Days: 8

Data shared on this report is CONFIDENTIAL

Depth md/tvd (ft): 6,951.01 / 6,904.50
Progress (ft): 414.00
ROP: 414.0 / 14.00 = 29.57
Proposed TD (ft): 18,748.00
Next Csg Point (ft): 18,748.04

Rig: NABORS DRILLING/F-34
Rig Phone: 713-997-1205
RKB (ft): 2,862.01
Ground Level (ft): 2,832.0
POB: 24
Total Man Hours: 294.00

Current Activity: DRILLING TANGENT @ 6,951' PTB: 0.88 INC, 126 AZM, 11.5' AHEAD, 9.3' LEFT, 73' FROM ORIGINAL WELL BORE.
24 Hr Summary: L/D BHA & COLLARS, P/U CURVE BHA, TIH, TIME DRILL TO SIDETRACK, DRILL TANGENT
24 Hr Forecast: DRILL CURVE, TOH FOR LATERAL BHA, TIH, DRILL LATERAL

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: WESLEY VAUGHN
Time: 0:00 Oil Cnt (%): 64
Location: JCTION TANK H2O Cnt (%): 28
Pit Temp (°F): 88 Sand Cnt (%): 0.01
Depth (ft): 6,606.01 MBT (lbm/bbl): 0.0
Density (ppg): 8.80 pH: 0.0
FV (s/qt): 68 Pm (cc): 0.0
PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0
YP (lbf/100ft²): 10 Chloride (ppm): 0
Gels (l): 9/11/14 Calcium (ppm): 0.00
WL (cc/30min): 12.00 LCM (lbm/bbl): 0.0
HTHP (°F): 250 ES (mV): 376.0
Cake (32nd"): 2.00 LGS (%): 5.20
Solids (lbm/bbl): 47 Ex Lime (ppb): 3.0
ECD (pgg): 9.1 OWR: 70.0 / 30.0

MUD LOGGING

Trip Gas (units): @
Conn Gas (units): @
Form:

BG Gas (units):
Pore Pressure: (%)

Surf to Surf:
Lag Strokes:
Lag Time: (min)

MUD MATERIALS

Mud Additives Used
FUEL SURCHARGE 300
BARITE 41 100
ENGINEER 24 HOURS 1
RM-63 1
TRANSPORTATION 330
BARABLOK 9
DURATONE HT 12
CALCIUM CHLORIDE PO 50
GELTONE 12
SHRINK WRAP 7
SUSPENTONE 14
OIL ABSORBANT 2

BIT RECORD

Bit# 7
S/N 33302
Size (in) 8.75
Mfg ULTERRA
IADC Type U516M
Model #

Jets 3X18 5X16

Depth In (ft) 6,537
Depth Out (ft) 7,307
Bit Rotations 220/240
Op Btm Hrs Cum 7.50
Footage Cum (ft) 770
ROP Cum 102.7
WOB mm/mx (kip) / 15 / 25
RPM rot/bit / 220 / 240
Bit HP 0.51
HSI 0.52
PSI Drop (psi) 134.54
Jet Vel (ft/s) 130.72
Imp Force 238.39

Grading I O D L B G O R
Bit #
Bit # 7 1 1 CT G X I CT DMF

CASING

Size(in) MD(ft)/TVD(ft) FIT/Lot(ppg)
5.50 18,748.04 / 7,804.02

INVENTORY

Item Inv
RIG DIESEL 15,072
MUD DIESEL 7,500

SOLIDS CONTROL

Skr Deck 1 Screens Deck 2 Screens
1 100///
2 100///
3 100///
4

BHA # 7

Qty Item Description ID (in) OD (in) Len (ft) Cum (ft)
ULTERRA PDC U516M 5-16'S
1 LBTB 4/5 7.0 STG 2.25" FBH, 6.0
1 PONY COLLAR 3.250 6.750 15.08 44.87
1 EM TOOL 2.750 6.625 30.95 75.82
1 FLEX COLLAR 3.250 6.750 29.77 105.59
30 DRILL PIPE 4.280 5.000 7,201.42 7,307.01
Total Length: 7,307.01

STRING LOADS

On Btm Torque: 6,000
Off Btm Torque: 2,000
Str. Wt. Up: 200
Str. Wt. Down: 190
Str. Wt. Rot.: 195
Max Over Pull:

BHA PROPERTIES
BHA Hrs: 8
Jar Hrs:
Cum String Hours: 8
Weight B Jars (kip):

MUD PUMPS

#1 #2 #3
Pump DR DR
Type:
Liner ID: 5.50 5.50
SPM: 65.00 65.00
GPM: 233.45 233.45
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): 470 SPP (psi): 1,200
AV (DC): 328 AV (DP): 206

SURVEYS

MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft)
6,523 9.19 326.06 6,477 429.65 -345.33 433.69 0.00
6,546 8.25 328.00 6,500 432.55 -347.23 436.61 4.28
6,608 1.31 17.92 6,562 436.97 -349.37 441.07 12.05
6,702 1.06 187.90 6,656 437.14 -349.16 441.23 2.51
6,796 1.06 204.07 6,750 435.48 -349.64 439.57 0.32
6,890 0.88 126.38 6,844 434.26 -349.41 438.35 1.30

OPERATION DETAILS

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION
06:00 08:00 2.00 P DRLPRD 13 TRIP POOH & LD 2 SSTANDS OF 6 1/2" DC.
08:00 10:00 2.00 P DRLPRD 13 TRIP P/U SIDE TRACK/CURVE BHA. (ULTERA 516M W/5-16'S, RYAN LONG BIT TO BEND 2.25° 4/5 7.0 FBH PDM .49 RPG (6.08' BTB WITH BIT) PONY COLLAR, EM, FLEX MONEL)
10:00 10:30 0.50 P DRLPRD 12 RIGSVC SERVICED RIG. (ADJUST LINK TILT CYLINDERS TO AVOID CONTACT WITH MONKEY BOARD)
10:30 12:30 2.00 P DRLPRD 13 TRIP TIH BREAK CIR @ 2,900'. (30K TIGHT SPOT AT 1,950')
12:30 13:00 0.50 P DRLPRD 15 CIRC BREAK CIRCULATION AND TEST EM TOOL.
13:00 16:00 3.00 P DRLPRD 13 TRIP TIH TO 6,530' & WASH TO BOTTOM
16:00 23:00 7.00 P DRLPRD 08 DRLDIR ORIENT TF TO 180 AND TIME DRILLED OFF PLUG W/400 GPM. 2.5 FPH 6,537'-6,540' 10K WOB; 5FPH 6,540'-6,541' 15K WOB, 30 PSI DIFF; 7.5 FPH 6,541'-6,543' 16K WOB, 30 PSI DIFF; 10 FPH 6,543'-6,550' 17K WOB, 30 PSI DIFF; 5 FPH 6,550'-6,553' 20K WOB 60 PSI DIFF; 7 FPH 6,553'-6,572' 22K WOB, 100 PSI DIFF; 9 FPH 6,572'-6,574' 29K WOB, 240 PSI DIFF; 12 FPH 6,574'-6,577' 29K WOB, 260 PSI DIFF; 15 FPH 6,577'-6,579' 32K WOB, 290 PSI DIFF; 18 FPH 6,579'-6,581' 35K WOB, 140 PSI DIFF; 20 FPH 6,581'-6,585' 29K WOB, 220 PSI DIFF; 22 FPH 6,585'-6,590' 30K WOB, 250 PSI DIFF; 26 FPH 6,590'-6,974' 30K WOB, 300 PSI DIFF; (25% CMT @ 6,554', 30% @ 6,556', 25% @ 6,558', 90% @ 6,560', 100% @ 6,562'.) SURVEY @ 6,546' = 8.25° INC, 328° AZM.
23:00 06:00 7.00 P DRLPRD 08 DRLDIR DRILL TANGENT 6,594'-6,951'.

Daily Operations Comments
UTILIZING DIRECTIONAL PLAN #5.

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AH/01</div> <div>Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP CENTRAL Supervisors: JOE WILKERSON / CHAD SURBER Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO</div>		<div>Report Number: 022 Report Date: 12/20/2016 Spud Date: 10/09/2016 Release Date: DFS: 18.69 Last BOP T.: 10/09/2016</div> <div>API #: 4238339687 AFE Days: 8</div>											
Data shared on this report is CONFIDENTIAL															
Depth md/tvd (ft): 8,375.02 / 8,085.20 Progress (ft): 925.00 ROP: 925.0 / 17.00 = 54.41 Proposed TD (ft): 18,748.00 Next Csg Point (ft): 18,748.04		Rig: NABORS DRILLING/F-34 Rig Phone: 713-997-1205 RKB (ft): 2,862.01 Ground Level (ft): 2,832.0 POB: 24 Total Man Hours: 294.00													
Current Activity: LD CURVE BHA. (PTB @ 8,375' 90.5° INC, 185.5° AZM, 1' ABOVE, 19' LEFT) 24 Hr Summary: DRILL TANGENT 7,450' - 7,605', DRILL CURVE 7,605' - 8,375', TOH FOR LATERAL BHA 24 Hr Forecast: P/U LATERAL BHA , TIH, DRILL LATERAL.															
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING									
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN Time: 0:00 Oil Cnt (%): 65 Location: JCTION TANK H2O Cnt (%): 27 Pit Temp (°F): 94 Sand Cnt (%): 0.01 Depth (ft): 8,245.02 MBT (lbm/bbl): 0.0 Density (ppg): 8.70 pH: 0.0 FV (s/qt): 58 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 11 Chloride (ppm): 0 Gels (l): 8/10/13 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 402.0 Cake (32nd"): 2.00 LGS (%): 4.40 Solids (lbm/bbl): 40 Ex Lime (ppb): 3.5 ECD (ppg): 9.0 OWR: 70.7 / 29.3		Mud Additives Used BARACARB 150 43 CEDAR FIBER 4 MICA FINE 62 GELTONE 23 OIL ABSORBANT 2 INVERMUL 2 TRANSPORTATION 287 BAROID RIG WASH 1 ENGINEER 24 HOURS 1 CALCIUM CHLORIDE PO 50 BARACARB 600 43 SHRINK WRAP 13 FUEL SURCHARGE 300 MICA COURSE 62		Bit# 8 S/N 32842 Size (in) 8.75 Mfg ULTERRA IADC Type U516M Model # Jets 5X16 Depth In (ft) 7,307 Depth Out (ft) 8,375 Bit Rotations 220/240 On Btm Hrs Cum 19.50 Footage Cum (ft) 1,068 ROP Cum 54.8 WOB mn/mx (kip) 20 / 30 RPM rot/bit 220 / 240 Bit HP 1.01 HSI 1.03 PSI Drop (psi) 210.17 Jet Vel (ft/s) 164.32 Imp Force 372.40		Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 5.50 18,748.04 / 7,804.02									
INVENTORY															
Item Inv MUD DIESEL 7,800 RIG DIESEL 15,650															
SOLIDS CONTROL															
Skr Deck 1 Screens Deck 2 Screens 1 100/// 2 100/// 3 100/// 4															
MUD LOGGING		Surf to Surf: Lag Strokes: Lag Time: (min)		Grading Bit # Bit # 8		I O D L B G O R 1 1 WT A X I WTBHA									
Trip Gas (units): @ Conn Gas (units): @ Form:		BG Gas (units): Pore Pressure: (%)		BHA # 8		STRING LOADS									
Qty Item Description ID (in) OD (in) Len (ft) Cum (ft)		1 ULTERRA PDC U516M 5-16'S 8.750 1.00 1.00 1 RYAN 4/5 7.0 STG 2.25° FBH, 4.6 6.750 27.29 28.29 1 PONY COLLAR 3.250 6.750 15.08 43.37 1 EM TOOL 2.750 6.625 30.95 74.32 1 FLEX COLLAR 3.250 6.750 29.77 104.09 30 DRILL PIPE 4.280 5.000 8,270.93 8,375.02 Total Length: 8,375.02		On Btm Torque: 6,500 Off Btm Torque: 3,000 Str. Wt. Up: 220 Str. Wt. Down: 190 Str. Wt. Rot.: 200 Max Over Pull:		MUD PUMPS									
		BHA PROPERTIES		#1 #2 #3											
		BHA Hrs: 17 Jar Hrs: Cum String Hours: 20 Weight B Jars (kip):		1 SPM: 0.00 0.00 Pressure: 0.00 0.00 2 SPM: 0.00 0.00 Pressure: 0.00 0.00		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): 490 SPP (psi): 2,250 AV (DC): 328 AV (DP): 206											
SURVEYS															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)	
7,639		6.19		180.34		7,592		421.13		-352.75		425.26		5.26	
7,733		17.44		184.91		7,684		401.95		-353.99		406.10		12.00	
7,827		24.50		185.62		7,772		368.44		-357.10		372.62		7.52	
7,921		36.56		182.45		7,853		320.86		-360.22		325.08		12.94	
8,015		42.75		181.04		7,925		260.92		-362.00		265.15		6.65	
8,108		52.19		186.85		7,988		192.65		-366.97		196.93		11.14	
8,202		65.50		189.66		8,036		113.12		-378.63		117.53		14.39	
8,296		76.56		185.09		8,067		24.98		-389.90		29.52		12.63	
OPERATION DETAILS															
FROM		TO		HRS		OP CODE		PHASE		CODE		ACTIVITY		DESCRIPTION	
06:00		08:30		2.50		P		DRLPRD		08		DRLDIR		DRILL TANGENT 7,450'-7,605'. (HOLE TAKING FLUID APROX 30BPH, PUMP 40 BBLS 20PPB LCM PILL) TOTAL LOST 37 BBLS.	
08:30		09:00		0.50		P		DRLPRD		12		RIGSVC		SERVICE RIG.	
09:00		23:30		14.50		P		DRLPRD		09		DRLCRV		DRILL CURVE 7,605'- 8,375' (24HR TOTAL MUD LOST 195 BBLS.) MIXING HOURLY MAINT LCM OVER ACTIVE TANK MUD PUMP SUCTION. PUMPING 20 BBLS OF 25 PPB LCM PILL EVERY TWO STANDS. HOLE SEEPING 14 BPH.	
23:30		00:00		0.50		P		DRLPRD		09		DRLCRV		CIRCULATE BOTTOMS UP, PREPARE FOR TRIP OUT.	
00:00		05:00		5.00		P		DRLPRD		13		TRIP		POOH FOR LATERAL ASSEMBLY. STARTED PULLING WET @ 7,100'.	
05:00		06:00		1.00		P		DRLPRD		13		TRIP		LD CURVE BHA. CLEAN RIG FLOOR OF OBM FROM WET TRIP.	
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #5. (TOTAL MUD LOST 195 BBLS.)															

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY CENTRAL 0810AH/01</div> <div>Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP CENTRAL Supervisors: JOHNSON, DUSTY / PANNELL, CHARL Engineer/Manager: MOTLEY, DEREK / MARES, SERGIO</div>		<div>Report Number: 027 Report Date: 12/25/2016 Spud Date: 10/09/2016 Release Date: DFS: 23.69 Last BOP T.: 12/15/2015</div> <div>DOL: 26 AFE Days: 8</div>			
Data shared on this report is CONFIDENTIAL							
Depth md/tvd (ft): 18,672.04 / 7,868.92 Progress (ft): 446.00 ROP: 446.0 / 6.50 = 68.62 Proposed TD (ft): 18,748.00 Next Csg Point: 18,652.04		Rig: NABORS DRILLING/F-34 Rig Phone: 713-997-1205 RKB (ft): 2,862.01 Ground Level (ft): 2,832.0 POB: 26 Total Man Hours: 288.00					
Current Activity: POOH,L/D BHA. & CLEAN RIG FLOOR							
24 Hr Summary: FINISH PACKING SWIVEL ON T.D., DRILL 18,226' - 18,672', CIRCULATE HOLE CLEAN, TOOH & L/D DIRECTIONAL TOOLS, R/U & START RUNNING 5 1/2" PRODUCTUION CASING.							
24 Hr Forecast: RUN AND CEMENT PRODUCTION CASING							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD			
Fluids Co.: HALLIBURTON Fluids Eng: MICHAEL BURKETT				Bit# 9 S/N 32512 Size (in) 8.50 Mfg ULTERRA IADC Type Model # U519M Jets 7X20 Depth In (ft) 8,375 Depth Out (ft) 18,672 Bit Rotations 168/168 Op Btm Hrs Cum 88.00 Footage Cum (ft) 10,387 ROP Cum 118.0 WOB mn/mx (kip) 29 / 32 RPM rot/bit 168 / 168 Bit HP 0.87 HSI 0.41 PSI Drop (psi) 64.76 Jet Vel (ft/s) 91.21 Imp Force 251.02			
Time: 0:00 Oil Cnt (%): 66 Location: JCTION TANK H2O Cnt (%): 27 Pit Temp (°F): 128 Sand Cnt (%): 0.01 Depth (ft): 18,672.04 MBT (lbm/bbl): 0.0 Density (ppg): 8.70 pH: 0.0 FV (s/qt): 58 Pm (cc): 0.0 PV (cp): 16 Pf (cc):/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 14 Chloride (ppm): 0 Gels (l): 12/14/16 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 618.0 Cake (32nd"): 2.00 LGS (%): 3.80 Solids (lbm/bbl): 35 Ex Lime (ppb): 3.2 ECD (ppg): 9.6 OWR: 71.4 / 28.6 more...		Mud Additives Used BARABLOK 2 GELTONE 13 SUSPENTONE 11 LIME 40 MICA COURSE 8 DURATONE HT 3 CEDAR FIBER 25 BARACARB 600 12 ENGINEER 24 HOURS 1 MICA FINE 21 BARITE 41 92 BARACARB 150 12 CALCIUM CHLORIDE PO 100 INVERMUL 1					
MUD LOGGING							
Trip Gas (units): @ BG Gas (units): 800 Conn Gas (units) 620 @ Form: Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)		Grading I O D L B G O R Bit # Bit # 9			
BHA # 9							
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)		
1	ULTERRA U519M [7x20's]		8.500	1.00	1.00		
1	RYAN 1.75" 7/8 5.0 STG FBH (BTS)		6.750	25.67	26.67		
1	PONY DC	3.250	6.750	15.08	41.75		
1	EM TOOL	2.750	6.625	30.95	72.70		
1	NMDC	3.250	6.750	30.76	103.46		
90	5" D.P.	4.276	5.000	2,812.43	2,915.89		
1	AGITATOR	2.500	6.750	13.02	2,928.91		
1	SHOCK SUB	2.500	6.750	11.90	2,940.81		
504	5" DP	4.276	5.000	15,731.23	18,672.04		
Total Length:				18,672.04			
STRING LOADS							
On Btm Torque: 19,000 Off Btm Torque: 19,000 Str. Wt. Up: 310 Str. Wt. Down: 120 Str. Wt. Rot.: 198 Max Over Pull: 112							
BHA PROPERTIES							
BHA Hrs: 7 Jar Hrs: Cum String Hours: 96 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): 610				SPP (psi): 4,100			
AV (DC): 328				AV (DP): 206			
SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
17,513	92.63	177.35	7,886	-9,179.87	-654.85	-9,172.87	1.13
17,607	92.06	179.99	7,882	-9,273.73	-652.67	-9,266.76	2.87
17,700	92.06	179.64	7,879	-9,366.65	-652.37	-9,359.70	0.38
17,794	91.25	180.87	7,876	-9,460.61	-652.79	-9,453.66	1.57
17,888	89.94	183.15	7,875	-9,554.57	-656.09	-9,547.59	2.80
17,982	89.81	183.86	7,875	-9,648.46	-661.84	-9,641.41	0.77
18,075	90.75	184.03	7,875	-9,741.30	-668.23	-9,734.19	1.03
18,169	90.56	184.56	7,874	-9,835.11	-675.27	-9,827.92	0.60
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	08:00	2.00	N	DRLPRD	45	RRCIRC	FINISH CHANGING OUT TOP DRIVE SWIVEL PACKING
08:00	14:30	6.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL F/ 18,226' - 18,672' T.D. (39% OF TIME SLIDING 43')
14:30	18:30	4.00	P	DRLPRD	15	CIRC	CIRCULATE AND RECIPROCATATE PIPE.
18:30	06:00	11.50	P	DRLPRD	13	TRIP	POOH AND L/D DIRECTIONAL TOOLS & CLEAN RIG FLOOR -- TRIP TIME AFFECTED BY HIGH WIND.
Daily Operations Comments UTILIZING DIRECTIONAL PLAN #6. (TOTAL MUD LOST - NONE; +25 BBLs.) SIDE TRACK STARTS 6,537'. KOP 7,605, 85 DEG. @ 8,361'.							



Well Name/Wellbore No.:	
UNIVERSITY CENTRAL 0810AH/01	
Country:	USA
State/OCSG	TEXAS
Field/Permit#:	WOLFCAMP CENTRAL
Supervisors:	JOHNSON, DUSTY / PANNELL, CHARL
Engineer/Manager:	MOTLEY, DEREK / MARES, SERGIO

Report Number:	028	API #:	4238339687
Report Date:	12/26/2016		
Spud Date:	10/09/2016		
Release Date:			
DFS: 24.69	DOL: 27		AFE Days: 8
Last BOP T.:	12/15/2015		

Depth md/tvd (ft): 18,672.04 / 7,868.92
 Progress:
 ROP: / = 0.00
 Proposed TD (ft): 18,748.00
 Next Csg Point: 18,652.04

Rig: NABORS DRILLING/F-34
Rig Phone: 713-997-1205
RKB (ft): 2,862.01
Ground Level (ft): 2,832.0
POB: 30 Total Man Hours: 252.00

Current Activity:	CIRCULATING OUT WITH PRODUCTION CASING AT 18,652'
24 Hr Summary:	FINISH L/D BHA. CLEAN RIG FLOOR. RU&R 5 1/2" PRDUCTION CASING TO 18,652'. CIRCULATE AND CONDITION MUD FOR CEMENTING
24 Hr Forecast:	CEMENT PRODUCTION CASING, SET SLIPS ON 5 1/2" CSG. CUT CSG, CAP WELL, RELEASE RIG AND SKID BACK TO THE UC 0810 CH WELL

[illegible]

MUD PUMPS			
	#1	#2	#3
Pump Type:			
Liner ID:		0.00	
SPM:		0.00	
GPM:		0.00	
SPR:			
1 SPM:		0.00	
Pressure:		0.00	
2 SPM:		0.00	
Pressure:		0.00	
T GPM (gpm):		SPP (psi):	
AV (DC): 328		AV (DP): 206	

SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
17,513	92.63	177.35	7,886	-9,179.87	-654.85	-9,172.87	1.13
17,607	92.06	179.99	7,882	-9,273.73	-652.67	-9,266.76	2.87
17,700	92.06	179.64	7,879	-9,366.65	-652.37	-9,359.70	0.38
17,794	91.25	180.87	7,876	-9,460.61	-652.79	-9,453.66	1.57
17,888	89.94	183.15	7,875	-9,554.57	-656.09	-9,547.59	2.80
17,982	89.81	183.86	7,875	-9,648.46	-661.84	-9,641.41	0.77
18,075	90.75	184.03	7,875	-9,741.30	-668.23	-9,734.19	1.03
18,169	90.56	184.56	7,874	-9,835.11	-675.27	-9,827.92	0.60

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	08:00	2.00	P	DRLPRD	13	TRIP	FINISH L/D BHA & CLEAN OIL BASE OFF OF RIG FLOOR
08:00	04:00	20.00	P	CASPRD1	24	RUNCAS	PJSM. MIRU FRANKS CASING TOOLS & TORQUE TURN. RUN 5 1/2" 17# HCP110 LTC CASING; TAG BOTTOM AT 18,672'. L/D 1 JOINT 5 1/2" CASING, P/U LANDING JOINT. SET PIPE AT 18,652'; FLOAT COLLAR @ 18,605.71'; LANDING COLLAR @ 18,598.48'; TOE SLEEVE @ 18,551.85'; NCS FLOTATION AIR LOCK @ 10,841.50'.
04:00	06:00	2.00	P	CASPRD1	15	CIRC	INSTALL COMPASS CEMENTING HEAD. PRESSURE UP AND RUPTURE AIR LOCK W/ 2,500 PSI. CIRCULATE OUT AIR.

Daily Operations Comments
UTILIZING DIRECTIONAL PLAN #6. (TOTAL MUD LOST - NONE; +25 BBLS.) SIDE TRACK STARTS 6,537'. KOP 7,605, 85 DEG. @ 8,361'.

