





Fuel						
FUEL TYPE	VENDOR	BEG QTY	RECEIVED QTY	TOTAL QTY	QTY USED	QTY REMAINING
Diesel	Fuel Source	2,210	0	2,210	882	1,328

SAFETY MEETING / JOB SAFETY ANALYSIS		
TOPIC	DAYLIGHT TOUR	MORNING TOUR
JSA	SKID RIG	CEMENT
STOP CARDS	0	0
NEAR MISSES	0	0

 Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00		Report Number: 002		API #: 4210542309									
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: WESTON WHITE / JIMMY DAVIS Engineer/Manager: MOTLEY, DEREK / MANGUM, DANNY		Report Date: 11/25/2015 Spud Date: Release Date: DFS: 0.00 Last BOP T.:		DOL: 1 AFE Days: 13									
Depth md/tvd (ft): 1,005.00 / 1,005.00 Progress: ROP: / = 0.00 Proposed TD (ft): 15,423.00 Next Csg Point (ft): 15,435.03				Rig: NABORS DRILLING/888 Rig Phone: 713-997-1245 RKB (ft): 2,664.01 Ground Level (ft): 2,636.0 POB: 48 Total Man Hours: 540.00											
Current Activity: MIRU. (70% MI. 15% RU). 24 Hr Summary: MIRU. 24 Hr Forecast: MIRU.															
MUD PROPERTIES				MUD MATERIALS		BIT RECORD				CASING					
Fluids Co.: Fluids Eng: Time: Location: Pit Temp: Depth: Density: FV: PV: YP: Gels: WL: HTHP: Cake: ECD:				Oil Cnt: H2O Cnt: Sand Cnt: MBT: pH: Pm: Pf/Mf: / Chloride: // Calcium: LCM: ES (mV): LGS: Ex Lime (ppb): OWR: /		Mud Additives Used		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) 14.00 9.63 5.50 MD(ft)/TVD(ft) 67.00 / 1,005.00 / 15,435.03 / FIT/LOT(ppg) 67.00 1,005.00 6,285.01			
MUD LOGGING															
Trip Gas (units): @ Conn Gas (units): @ Form:				BG Gas (units): Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)		Grading Bit # Bit #				I O D L B G O R			
MUD PUMPS															
#1 #2 #3 Pump Type: Liner ID: SPM: GPM: SPR: 1 SPM: Pressure: 2 SPM: Pressure: T GPM (gpm): AV (DC):															
SPP (psi): AV (DP):															
SURVEYS															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)	
627		0.25		92.36		627		0.09		0.43		0.08		0.20	
677		0.22		23.19		677		0.17		0.58		0.17		0.54	
727		0.34		7.62		727		0.41		0.64		0.40		0.28	
777		0.27		348.01		777		0.67		0.63		0.66		0.25	
827		0.33		351.74		827		0.93		0.59		0.92		0.13	
877		0.32		317.87		877		1.17		0.47		1.17		0.38	
915		0.29		348.90		915		1.34		0.38		1.34		0.44	
0		0.00		0.00		0		0.00		0.00		0.00		0.00	
OPERATION DETAILS															
FROM		TO		HRS		OP CODE		PHASE		CODE		ACTIVITY		DESCRIPTION	
06:00		06:00		24.00		P		MIRU		01		MIRU		MOVE IN & ASSEMBLE RIG EQUIPMENT WITH DEEP WELL ENERGY SERVICE. (70% MI. 15% RU).	
Daily Operations Comments															

<div><div></div><div>Daily Drilling Report Onshore</div></div>						Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00 Country: USA State/OCSG TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / KENNETH SWILLE Engineer/Manager: MOTLEY, DEREK / MANGUM, DANNY							Report Number: 003 Report Date: 11/26/2015 Spud Date: Release Date: DFS: 0.00 Last BOP T.: DOL: 2 AFE Days: 13			
Depth md/tvd (ft): 1,005.00 / 1,005.00						Rig: NABORS DRILLING/888										
Progress:						Rig Phone: 713-997-1245										
ROP: / = 0.00						RKB (ft): 2,664.01										
Proposed TD (ft): 15,423.00						Ground Level (ft): 2,636.0										
Next Csg Point (ft): 15,435.03						POB: 48 Total Man Hours: 534.00										
Current Activity: MI & RU.																
24 Hr Summary: MI & RU. (100% MOVED IN & 40% RIGGED UP.) DRILCO PERFORMING CAT 3 INSPECTION ON DRILL PIPE. 502 OF 575 JOINTS INSPECTED 4 JOINTS IN NEED OF REPAIR.																
24 Hr Forecast: CONTINUE RIGGING UP.																
MUD PROPERTIES						MUD MATERIALS				BIT RECORD				CASING		
Fluids Co.: Fluids Eng:										Bit# S/N Size (in) Mfg IADC Type Model #				Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)		
Time:						Oil Cnt:				Jets				14.00 67.00 / 67.00		
Location:						H2O Cnt:				Depth In (ft) Depth Out (ft)				9.63 1,005.00 / 1,005.00		
Pit Temp:						Sand Cnt:				Bit Rotations				5.50 15,435.03 / 6,285.01		
Depth:						MBT:				On Btm Hrs Cum Footage Cum (ft)						
Density:						pH:				ROP Cum						
FV:						Pm:				WOB mn/mx (kip)				/ /		
PV:						Pl/Mf:				RPM rot/bit				/ /		
YP:						Chloride:				Bit HP						
Gels:						// Calcium:				HSI						
WL:						LCM:				PSI Drop (psi)						
HTHP:						ES (mV):				Jet Vel (ft/s)						
Cake:						LGS:				Imp Force						
Solids:						Ex Lime (ppb):				Grading I O D L B G O R						
ECD:						OWR:				Bit #						
										Bit #						
MUD LOGGING																
Trip Gas (units): @						BG Gas (units):				Surf to Surf:						
Conn Gas (units) @										Lag Strokes:						
Form:						Pore Pressure: (%)				Lag Time: (min)						
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)		
627		0.25		92.36		627		0.09		0.43		0.08		0.20		
677		0.22		23.19		677		0.17		0.58		0.17		0.54		
727		0.34		7.62		727		0.41		0.64		0.40		0.28		
777		0.27		348.01		777		0.67		0.63		0.66		0.25		
827		0.33		351.74		827		0.93		0.59		0.92		0.13		
877		0.32		317.87		877		1.17		0.47		1.17		0.38		
915		0.29		348.90		915		1.34		0.38		1.34		0.44		
0		0.00		0.00		0		0.00		0.00		0.00		0.00		
OPERATION DETAILS																
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION									
06:00	06:00	24.00	P	MIRU	01	MIRU	MI & RU. (100% MOVED IN & 40% RIGGED UP.) SET SUBS, CENTER STEEL, DRAW WORKS, INSTALL MUD PUMP COVERS, SET DOG HOUSE, SET BLOCKS ON STAND, PIN DERRICK "A" LEGS, SET FRESH WATER FRAC TANKS, SET DRYING SHAKER TANK.									
Daily Operations Comments																

 Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00		Report Number: 004		API #: 4210542309									
		Country: USA State/OCSG TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / KENNETH SWILLE Engineer/Manager: MOTLEY, DEREK / MANGUM, DANNY		Report Date: 11/27/2015 Spud Date: Release Date: DFS: 0.00 Last BOP T.:		DOL: 3 AFE Days: 13									
Depth md/tvd (ft): 1,005.00 / 1,005.00 Progress: ROP: / = 0.00 Proposed TD (ft): 15,423.00 Next Csg Point (ft): 15,435.03				Rig: NABORS DRILLING/888 Rig Phone: 713-997-1245 RKB (ft): 2,664.01 Ground Level (ft): 2,636.0 POB: 51 Total Man Hours: 543.00											
Current Activity: RIGGING UP. 24 Hr Summary: RIGGED UP 70%. 24 Hr Forecast: FINISH RIGGING UP (P/U & RU TOP DRIVE, WALKING PKG, BOP WRANGLER, PRAGMA, STAIRWAYS, RU DRILL FLOOR, INSTALL FLOW LINE & MANIFOLD, FUNCTION TEST RIG EQUIPMENT. PERFORM RIG INSPECTIONS.)															
MUD PROPERTIES				MUD MATERIALS		BIT RECORD			CASING						
Fluids Co.: Fluids Eng: Time: Location: Pit Temp: Depth: Density: FV: PV: YP: Gels: WL: HTHP: Cake: Solids: ECD:				Oil Cnt: H2O Cnt: Sand Cnt: MBT: pH: Pm: Pf/Mf: / Chloride: // Calcium: LCM: ES (mV): LGS: Ex Lime (ppb): OWR: /		Mud Additives Used		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 mm/mx (kip) / RPM rot/bit / Bit HP HSI PSI Drop (psi) Jet Vel (ft/s) Imp Force Grading I O D L B G O R Bit # Bit #			Size(in) 14.00 9.63 5.50 MD(ft)/TVD(ft) 67.00 / 1,005.00 / 15,435.03 / FIT/LOT(ppg) 67.00 1,005.00 6,285.01				
									INVENTORY						
									Item		Inv				
									MUD DIESEL		7,500				
									DIESEL		15,383				
									SOLIDS CONTROL						
									Skr	Deck 1 Screens	Deck 2 Screens				
									1	100/100//					
									2	100/100//					
									3	140/100/100/					
MUD LOGGING															
Trip Gas (units): @		BG Gas (units): @		Surf to Surf:											
Conn Gas (units) @				Lag Strokes:											
Form:		Pore Pressure: (%)		Lag Time: (min)											
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)	
577		0.22		68.86		577		0.05		0.24		0.05		0.12	
627		0.25		92.36		627		0.09		0.43		0.08		0.20	
677		0.22		23.19		677		0.17		0.58		0.17		0.54	
727		0.34		7.62		727		0.41		0.64		0.40		0.28	
777		0.27		348.01		777		0.67		0.63		0.66		0.25	
827		0.33		351.74		827		0.93		0.59		0.92		0.13	
877		0.32		317.87		877		1.17		0.47		1.17		0.38	
915		0.29		348.90		915		1.34		0.38		1.34		0.44	
OPERATION DETAILS															
FROM		TO		HRS		OP CODE		PHASE		CODE		ACTIVITY		DESCRIPTION	
06:00		06:00		24.00		P		MIRU		01		MIRU		RIGGED UP 70% (BUILT , DRESSED, & RAISED DERRICK, RAISED SUBSTRUCTURE. SET UP AERION SOLIDS CONTROL EQUIPMENT. HANG GRASS HOPPER, RIGGED UP LIGHTING, INSTALL GROUND RODS. SET CT-80, WIRE DRAW WORKS, HOOK UP POWER CABLES & LINES, CUT DITCHES)	
Daily Operations Comments															

EP ENERGY	Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00				Report Number: 010 Report Date: 12/03/2015 Spud Date: 11/28/2015 Release Date: DFS: 5.00 Last BOP T.: 11/28/2015				API #: 4210542309 AFE Days: 13				
			Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST												
			Supervisors: JOE WILKERSON / KENNETH SWILLE Engineer/Manager: MOTLEY, DEREK / MANGUM, DANNY												
Depth md/tvd (ft): 14,625.03 / 6,265.38			Rig: NABORS DRILLING/888												
Progress (ft): 3,901.01			Rig Phone: 713-997-1245												
ROP: 3,901.0 / 23.50 = 166.00			RKB (ft): 2,664.01												
Proposed TD (ft): 15,423.00			Ground Level (ft): 2,636.0												
Next Csg Point (ft): 15,435.03			POB: 25 Total Man Hours: 297.00												
Current Activity: DRILLING LATERAL @ 14,625'. PTB 87.58° INC, 178.55° AZM, 2.50' BELOW, 24.60' LEFT. TOTAL LATERAL=7,950'.															
24 Hr Summary: DRILLED LATERAL 10,724'-14,625'.															
24 Hr Forecast: DRILL LATERAL UTILIZING TARGET ADVISORY #10 6,258' TVD @ 9,200'VS 90.26°.															
MUD PROPERTIES			MUD MATERIALS			BIT RECORD			CASING						
Fluids Co.: HALLIBURTON						Bit# 3 S/N 27397 Size (in) 8.75 Mfg ULTERRA IADC Type Model # U519S Jets 7X18 Depth In (ft) 6,691 Depth Out (ft) Bit Rotations 60/70 On Btm Hrs Cum 42.00 Footage Cum (ft) 7,934 ROP Cum 188.9 WOB mn/mx (kip) / 25 / 40 RPM rot/bit 60 / 70 Bit HP 0.37 HSI 0.21 PSI Drop (psi) 50.86 Jet Vel (ft/s) 78.82 Imp Force 159.68			Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)						
Fluids Eng: WESLEY VAUGHN									14.00 67.00 / 67.00 9.63 1,005.00 / 1,005.00 5.50 15,435.03 / 6,285.01						
Time: 3:00 Oil Cnt (%): 67			Mud Additives Used						INVENTORY						
Location: PIT H2O Cnt (%): 23			SHRINK WRAP 10						Item Inv						
Pit Temp (°F): 136 Sand Cnt (%): 0.00			ENGINEER 24 HOURS 1						MUD DIESEL 3,216						
Depth (ft): 14,139.03 MBT (lbm/bbl): 0.0			FORKLIFT W/OPERATOR 1						DIESEL 12,656						
Density (ppg): 9.15 pH: 0.0			GELTONE 15												
FV (s/qt): 54 Pm (cc): 0.0			TRANSPORTATION 436												
PV (cp): 19 Pf (cc):/Mf (cc): 0.0 / 0.0			DURATONE HT 12												
YP (lb/100ft²): 16 Chloride (ppm): 0			LIME 65												
Gels (l): 12/14/22 Calcium (ppm): 0.00			FUEL SURCHARGE .60 300												
WL (cc/30min): 16.80 LCM (lbm/bbl): 0.0			CALCIUM CHLORIDE PO 112												
HTHP (°F): 250 ES (mV): 437.0															
Cake (32nd"): 3.00 LGS (%): 7.80															
Solids (lbm/bbl): 75 Ex Lime (ppb): 4.0															
ECD (ppg): 10.1 OWR: 74.7 / 25.3															
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 # 3									
BHA # 3					STRING LOADS			MUD PUMPS							
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 16,300			#1 #2 #3					
1	ULTERRA U519S			8.750	1.00	1.00	Off Btm Torque: 6,500			Pump	DR	DR			
1	RYAN 7" 7/8 5.0 1.75 FBH MUD MC			7.000	25.24	26.24	Str. Wt. Up: 250			Type:					
1	PONY DC		3.250	6.750	8.16	34.40	Str. Wt. Down: 200			Liner ID:	5.50	5.50			
1	EM TOOL		3.250	6.500	29.46	63.86	Str. Wt. Rot.: 220			SPM:	79.00	79.00			
1	NMDC		3.250	6.750	29.56	93.42	Max Over Pull: 35			GPM:	286.65	286.65			
90	5" D.P.		4.276	5.000	2,835.01	2,928.43				SPR:					
1	AGITATOR		2.875	6.500	10.83	2,939.26				1 SPM:	0.00	40.00			
1	SHOCK SUB		2.562	6.500	12.97	2,952.23				Pressure:	0.00	510.00			
1	5" DP		4.276	5.000	11,672.80	14,625.03				2 SPM:	0.00	50.00			
Total Length: 14,625.03												Pressure:	0.00	600.00	
						BHA PROPERTIES									
						BHA Hrs: 24									
						Jar Hrs:									
						Cum String Hours: 42									
						Weight B Jars (kip):									
									T GPM (gpm): 573 SPP (psi): 4,450						
									AV (DC): 418 AV (DP): 278						
SURVEYS															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)	
13,892		92.77		181.19		6,280		7,639.64		-900.55		-7,636.39		1.53	
13,987		92.02		181.01		6,276		7,734.54		-902.38		-7,731.29		0.81	
14,082		92.50		179.69		6,272		7,829.46		-902.96		-7,826.21		1.48	
14,177		91.23		178.82		6,269		7,924.40		-901.72		-7,921.15		1.62	
14,272		91.63		178.29		6,267		8,019.33		-899.33		-8,016.09		0.70	
14,366		92.81		177.94		6,263		8,113.19		-896.24		-8,109.96		1.31	
14,461		90.13		178.29		6,261		8,208.09		-893.11		-8,204.87		2.84	
14,556		87.58		178.55		6,262		8,303.02		-890.50		-8,299.81		2.70	
OPERATION DETAILS															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION								
06:00	06:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG								
06:30	06:00	23.50	P	DRLPRD	10	DRLLAT	DRILLED LATERAL 10,724'-14,625'.								
Daily Operations Comments															
UTILIZING PLAN #4, KOP 5,962' MD, LANDING POINT 6,346' TVD. 90.4 INC, 180.21 AZM. LATERAL STARTS AT 6,675' (85°). RYAN 1.75" 7/8 5.0 FBH SLICK MOTOR															
BTB 5.24', BTS 50', BTG 48'. (TOTAL SLIDE FTG LAST 24 HRS= 346', 4.5 HRS)															

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>		<div>Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00</div> <div>Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / KENNETH SWILLE Engineer/Manager: MOTLEY, DEREK / MANGUM, DANNY</div>		<div>Report Number: 011 Report Date: 12/04/2015 Spud Date: 11/28/2015 Release Date: DFS: 6.00 Last BOP T.: 11/28/2015</div> <div>DOL: 10 AFE Days: 13</div>			
Depth md/tvd (ft): 16,754.03 / 6,291.64 Progress (ft): 2,129.00 ROP: 2,129.0 / 16.50 = 129.03 Proposed TD (ft): 15,423.00 Next Csg Point (ft): 16,754.03		Rig: NABORS DRILLING/888 Rig Phone: 713-997-1245 RKB (ft): 2,664.01 Ground Level (ft): 2,636.0 POB: 31 Total Man Hours: 323.00					
Current Activity: POOH. PTB 16,754' MD, 90.09 INC, 181.45 AZM, 6,291.4' TVD, 10,499.47 VS, -10,496.3 SOUTH, -889.88 WEST. 13.8' BELOW, 32.1' LEFT. TOTAL LATERAL 10,079'.							
24 Hr Summary: RIG SERVICE, DRILL LATERAL 14,625' - 14,986', PERFORM CLEAN UP CYCLE, DRILL LATERAL 14,986' - 16,754', C & C MUD FOR CASING RUN, POOH.							
24 Hr Forecast: POOH TO BOC, CIRCULATE HOLE CLEAN, POOH. RU & RUN PROD CSG.							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD			
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN				Bit# 3 S/N 27397 Size (in) 8.75 Mfg ULTERRA IADC Type Model # U519S Jets 7X18 Depth In (ft) Depth Out (ft) Bit Rotations 60/70 On Btm Hrs Cum 58.50 Footage Cum (ft) 10,063 ROP Cum 172.0 WOB mn/mx (kip) / 25 / 45 RPM rot/bit / 60 / 70 Bit HP 0.22 HSI 0.12 PSI Drop (psi) 35.94 Jet Vel (ft/s) 65.90 Imp Force 112.84			
Time: 3:00 Oil Cnt (%): 66 Location: PIT H2O Cnt (%): 22 Pit Temp (°F): 141 Sand Cnt (%): 0.00 Depth (ft): 16,754.03 MBT (lbm/bbl): 0.0 Density (ppg): 9.25 pH: 0.0 FV (s/qt): 49 Pm (cc): 0.0 PV (cp): 20 Pf (cc):/Mf (cc): 0.0 / 0.0 YP (lbft/100ft²): 14 Chloride (ppm): 0 Gels (l): 11/14/20 Calcium (ppm): 0.00 WL (cc/30min): 16.80 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 459.0 Cake (32nd"): 3.00 LGS (%): 9.10 Solids (lbm/bbl): 84 Ex Lime (ppb): 3.8 ECD (ppg): 10.3 OWR: 75.0 / 25.0		Mud Additives Used ENGINEER 24 HOURS 1 GELTONE 10 BAROID 41 101 EZ MUL 1 TRANSPORTATION 424 SWAMPER 3 CALCIUM CHLORIDE PO 112 MICA COURSE 15 FUEL SURCHARGE .60 400 SUSPENTONE 10 LIME 36		Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg) 14.00 67.00 / 67.00 9.63 1,005.00 / 1,005.00 5.50 16,754.03 / 6,285.01			
				INVENTORY			
				Item Inv MUD DIESEL 3,088 DIESEL 9,944			
				SOLIDS CONTROL			
				Skr Deck 1 Screens Deck 2 Screens 1 100/100/ 2 100/100/ 3 140/100/100/			
MUD LOGGING				Grading I O D L B G O R Bit # Bit # 3			
Trip Gas (units): @ Conn Gas (units): @ Form:		BG Gas (units): Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)			
BHA # 3		STRING LOADS		MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 18,300 Off Btm Torque: 5,700 Str. Wt. Up: 200 Str. Wt. Down: 155 Str. Wt. Rot.: 170 Max Over Pull: 35	#1 #2 #3 Pump Type: DR DR Liner ID: 5.50 5.50 SPM: 79.00 79.00 GPM: 286.65 286.65 SPR: 1 SPM: 40.00 30.00 Pressure: 585.00 460.00 2 SPM: 50.00 50.00 Pressure: 720.00 695.00 T GPM (gpm): 573 SPP (psi): 4,527 AV (DC): 418 AV (DP): 278
1	ULTERRA U519S		8.750	1.00	1.00		
1	RYAN 7" 7/8 5.0 1.75 FBH MUD MC		7.000	25.24	26.24		
1	PONY DC	3.250	6.750	8.16	34.40		
1	EM TOOL	3.250	6.500	29.46	63.86		
1	NMDC	3.250	6.750	29.56	93.42		
90	5" D.P.	4.276	5.000	2,835.01	2,928.43		
1	AGITATOR	2.875	6.500	10.83	2,939.26		
1	SHOCK SUB	2.562	6.500	12.97	2,952.23		
	5" DP	4.276	5.000	13,801.81	16,754.03		
Total Length:					16,754.03		
SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
16,072	87.67	178.46	6,282	9,817.84	-883.18	-9,814.67	1.66
16,167	87.54	180.05	6,286	9,912.74	-881.94	-9,909.57	1.68
16,262	88.33	179.61	6,289	10,007.68	-881.66	-10,004.51	0.95
16,356	88.46	179.08	6,292	10,101.63	-880.59	-10,098.47	0.58
16,451	90.75	182.33	6,293	10,196.60	-881.75	-10,193.44	4.18
16,546	89.91	180.84	6,292	10,291.57	-884.38	-10,288.40	1.80
16,641	90.26	181.45	6,292	10,386.56	-886.28	-10,383.38	0.74
16,704	90.09	181.45	6,292	10,449.54	-887.87	-10,446.36	0.27
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	06:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG.
06:30	09:30	3.00	P	DRLPRD	10	DRLLAT	DRILLED LATERAL 14,625'-14,986'.
09:30	10:30	1.00	P	DRLPRD	15	CIRC	PERFORM CLEAN UP CYCLE. OFF BOTTOM TORQUE DECREASED FROM 12K-10K.
10:30	00:00	13.50	P	DRLPRD	10	DRLLAT	DRILLED LATERAL 14,986' TO TD @ 16,754'. PTB 16,754' MD, 90.09 INC, 181.45 AZM, 6,291.4' TVD, 10,499.47 VS, -10,496.3 SOUTH, -889.88 WEST. 13.8' BELOW, 32.1' LEFT. TOTAL LATERAL 10,079'.
00:00	05:00	5.00	P	DRLPRD	15	CIRC	C & C MUD FOR CASING RUN. RECIPROCATATE PIPE 96", ROTATE 70 RPM, 595 GPM.
05:00	06:00	1.00	P	DRLPRD	13	TRIP	PUMP SLUG AND POOH.
Daily Operations Comments UTILIZING PLAN #4, KOP 5,962' MD, LANDING POINT 6,278' TVD. 90.4 INC, 180.21 AZM. LATERAL STARTS AT 6,675' (85°). (TOTAL SLIDE FTG LAST 24 HRS= 125', 5.5 HRS) NOTIFIED TRRC CHRIS SHULL 12/4/15 OF PLANS TO RUN & CMT PROD CSG.							

EP ENERGY

Daily Drilling
Report Onshore

Well Name/Wellbore No.:
UNIVERSITY EAST 4110MH/00

Country: USA
State/OCSG TEXAS
Field/Permit#: WOLFCAMP EAST
Supervisors: JOE WILKERSON / KENNETH SWILLE
Engineer/Manager: MOTLEY, DEREK / ROY DERDEN

Report Number: 012
Report Date: 12/05/2015
Spud Date: 11/28/2015
Release Date:
DFS: 7.00 DOL: 11 AFE Days: 13
Last BOP T.: 11/28/2015

Depth md/tvd (ft): 16,754.03 / 6,291.64
Progress:
ROP: / = 0.00
Proposed TD (ft): 15,423.00
Next Csg Point (ft): 16,754.03

Rig: NABORS DRILLING/888
Rig Phone: 713-997-1245
RKB (ft): 2,664.01
Ground Level (ft): 2,636.0
POB: 43 Total Man Hours: 425.00

Current Activity: CEMENTING 5 1/2" PRODUCTION CASING.

24 Hr Summary: POOH TO BOC, CBU, POOH & LD BHA. PJSM, RU & RUN PROD CSG. RUPTER DISK & CIRC OUT AIR. RU BAKER & CMT PROD CSG.

24 Hr Forecast: FINISH CMT PROD CSG. FLUSH BOP. RD BAKER. ND BOP. SET SLIPS. CUT CSG. ND BOP. INSTALL TA CAP. RELEASE RIG. WALK TO 41 10 NH.

MUD PROPERTIES				MUD MATERIALS		BIT RECORD				CASING			
Fluids Co.: HALLIBURTON						Bit# 3				Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)			
Fluids Eng: WESLEY VAUGHN						S/N 27397				14.00 67.00 / 67.00			
Time: 3:00 Oil Cnt (%): 67				Mud Additives Used		Size (in) 8.75				9.63 1,005.00 / 1,005.00			
Location: PIT H2O Cnt (%): 22				ENGINEER 24 HOURS 1		Mfg ULTERRA				5.50 16,754.03 / 6,291.01			
Pit Temp (°F): 129 Sand Cnt (%): 0.00						IADC Type							
Depth (ft): 16,754.03 MBT (lbm/bbl): 0.0						Model # U519S							
Density (ppg): 9.20 pH: 0.0						Jets 7X18							
FV (s/qt): 54 Pm (cc): 0.0						Depth In (ft) 6,691							
PV (cp): 19 Pf (cc):/Mf (cc): 0.0 / 0.0						Depth Out (ft) 16,754							
YP (lbf/100ft²): 13 Chloride (ppm): 0						Bit Rotations /							
Gels (): 10/12/17 Calcium (ppm): 0.00						On Btm Hrs Cum Footage Cum (ft) 172.0							
WL (cc/30min): 17.20 LCM (lbm/bbl): 0.0						ROP Cum /							
HTHP (°F): 250 ES (mV): 427.0						WOB mn/mx (kip) /							
Cake (32nd"): 3.00 LGS (%): 8.40						RPM rot/bit /							
Solids (lbm/bbl): 80 Ex Lime (ppb): 3.6						Bit HP 0.07							
ECD (ppg): 9.2 OWR: 75.1 / 24.9						HSI 0.04							
MUD LOGGING						PSI Drop (psi) 16.98							
Trip Gas (units): @		BG Gas (units):		Surf to Surf:		Jet Vel (ft/s) 45.41							
Conn Gas (units) @				Lag Strokes:		Imp Force 53.30							
Form:		Pore Pressure: (%)		Lag Time: (min)									
						Grading I O D L B G O R							
						Bit #							
						Bit # 3 2 3 WT S X I CT TD							

BHA # 3					STRING LOADS				MUD PUMPS				
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:					#1	#2	#3
1	ULTERRA U519S		8.750	1.00	1.00	Off Btm Torque:				Pump Type:			
1	RYAN 7" 7/8 5.0 1.75 FBH MUD MC		7.000	25.24	26.24	Str. Wt. Up:				Liner ID:	0.00	0.00	
1	PONY DC	3.250	6.750	8.16	34.40	Str. Wt. Down:				SPM:	0.00	0.00	
1	EM TOOL	3.250	6.500	29.46	63.86	Str. Wt. Rot.:				GPM:	0.00	0.00	
1	NMDC	3.250	6.750	29.56	93.42	Max Over Pull:				SPR:			
90	5" D.P.	4.276	5.000	2,835.01	2,928.43					1 SPM:	0.00	0.00	
1	AGITATOR	2.875	6.500	10.83	2,939.26					Pressure:	0.00	0.00	
1	SHOCK SUB	2.562	6.500	12.97	2,952.23					2 SPM:	0.00	0.00	
	5" DP	4.276	5.000	13,801.81	16,754.03					Pressure:	0.00	0.00	
Total Length:					16,754.03					T GPM (gpm):	SPP (psi):		
										AV (DC): 418	AV (DP): 278		

SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
16,072	87.67	178.46	6,282	9,817.84	-883.18	-9,814.67	1.66
16,167	87.54	180.05	6,286	9,912.74	-881.94	-9,909.57	1.68
16,262	88.33	179.61	6,289	10,007.68	-881.66	-10,004.51	0.95
16,356	88.46	179.08	6,292	10,101.63	-880.59	-10,098.47	0.58
16,451	90.75	182.33	6,293	10,196.60	-881.75	-10,193.44	4.18
16,546	89.91	180.84	6,292	10,291.57	-884.38	-10,288.40	1.80
16,641	90.26	181.45	6,292	10,386.56	-886.28	-10,383.38	0.74
16,704	90.09	181.45	6,292	10,449.54	-887.87	-10,446.36	0.27

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	08:30	2.50	P	DRLPRD	13	TRIP	POOH TO 7,000'. HOLE SLICK.
08:30	10:00	1.50	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN @ 600 GPM.
10:00	14:00	4.00	P	DRLPRD	13	TRIP	POOH, LD BHA, & CLEAR RIG FLOOR.
14:00	15:00	1.00	P	CASPRD1	24	RUNCAS	PJSM. RU EXPRESS CASING CREW.
15:00	02:30	11.50	P	CASPRD1	24	RUNCAS	RUN 414 JOINTS OF 5 1/2" 17# HC-P110 LTC TO 16,754'. MARKER JOINTS @ 16,537', 13,382', 10,029', 6,668', 5,976', FLOATION COLLAR @ 6,503', LANDING COLLAR @ 16,704', ORIO @ 16,663'. 89 CENTRALIZERS PLACED E/3RD JOINT TO KOP. ALL DEPTHS FROM RIG RKB 27'. FINAL SLACK OFF WEIGHT WITH BLOCK 105K. FINAL SLACK OFF RIGHT BEFORE INSTALLING FLOATION COLLAR 60K. (TOP DRIVE & BLOCK WEIGHT: 50K)
02:30	05:30	3.00	P	CASPRD1	15	CIRC	INSTALL BAKER CMT HEAD. RUPTURE FLOATION COLLAR DISK WITH 2,500 PSI. CIRCULATE OUT AIR.
05:30	06:00	0.50	P	CASPRD1	25	PRIMCEM	RU BAKER CEMENTING. TEST LINES TO 8,000PSI, PUMP 40 BBLs 9.5 PPG TUNNED SPACER.

Daily Operations Comments
UTILIZING PLAN #4, KOP 5,962' MD, LANDING POINT 6,278' TVD. 90.4 INC, 180.21 AZM. LATERAL STARTS AT 6,675' (85°). (TOTAL SLIDE FTG LAST 24 HRS= 125', 5.5 HRS) NOTIFIED TRRC CHRIS SHULL 12/4/15 OF PLANS TO RUN & CMT PROD CSG.

<div><div><div>EP ENERGY</div></div><div><div>Daily Drilling</div><div>Report Onshore</div></div></div>				<div>Well Name/Wellbore No.: UNIVERSITY EAST 4110MH/00</div> <div>Country: USA</div> <div>State/OCSG: TEXAS</div> <div>Field/Permit#: WOLFCAMP EAST</div> <div>Supervisors: JOE WILKERSON / KENNETH SWILLEY</div> <div>Engineer/Manager: MOTLEY, DEREK / ROY DERDEN</div>				<div>Report Number: 013 API #: 4210542309</div> <div>Report Date: 12/06/2015</div> <div>Spud Date: 11/28/2015</div> <div>Release Date:</div> <div>DFS: 8.00 DOL: 12 AFE Days: 13</div> <div>Last BOP T.: 11/28/2015</div>							
<div>Depth md/tvd (ft): 16,754.03 / 6,291.64</div> <div>Progress:</div> <div>ROP: / = 0.00</div> <div>Proposed TD (ft): 15,423.00</div> <div>Next Csg Point (ft): 16,754.03</div>				<div>Rig: NABORS DRILLING/888</div> <div>Rig Phone: 713-997-1245</div> <div>RKB (ft): 2,664.01</div> <div>Ground Level (ft): 2,636.0</div> <div>POB: 38 Total Man Hours: 401.00</div>											
<div>Current Activity: FINAL REPORT WALK RIG TO 41 10 NH.RELEASE RIG 12/05/15 14:00 HRS.</div> <div>24 Hr Summary: FINISH CMT PROD CSG. FLUSH BOP. RD BAKER. ND BOP. SET SLIPS. CUT CSG. ND BOP. INSTALL TA CAP. RELEASE RIG 12/05/15 14:00 HRS.</div> <div>WALK TO 41 10 NH.</div> <div>24 Hr Forecast: RIG UP ON 41 10 NH.</div>															
MUD PROPERTIES				MUD MATERIALS		BIT RECORD				CASING					
Fluids Co.: HALLIBURTON						Bit#				Size(in)		MD(ft)/TVD(ft)		FIT/LOT(ppg)	
Fluids Eng: WESLEY VAUGHN						S/N				14.00		67.00 /		67.00	
Time: 3:00				Oil Cnt (%): 67		Size (in)				9.63		1,005.00 /		1,005.00	
Location: PIT				H2O Cnt (%): 22		Mfg				5.50		16,754.03 /		6,291.01	
Pit Temp (°F): 129				Sand Cnt (%): 0.00		IADC Type									
Depth (ft): 16,754.03				MBT (lbm/bbl): 0.0		Model #									
Density (ppg): 9.20				pH: 0.0		Jets									
FV (s/qt): 54				Pm (cc): 0.0		Depth In (ft)									
PV (cp): 19				Pf (cc):/Mf (cc): 0.0 / 0.0		Depth Out (ft)									
YP (lbf/100ft²): 13				Chloride (ppm): 0		Bit Rotations									
Gels (:): 10/12/17				Calcium (ppm): 0.00		On Btm Hrs Cum									
WL (cc/30min): 17.20				LCM (lbm/bbl): 0.0		Footage Cum (ft)									
HTHP (°F): 250				ES (mV): 427.0		ROP Cum									
Cake (32nd"): 3.00				LGS (%): 8.40		WOB mn/mx (kip)				/		/			
Solids (lbm/bbl): 80				Ex Lime (ppb): 3.6		RPM rot/bit				/		/			
ECD (ppg): 9.2				OWR: 75.1 / 24.9		Bit HP									
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	
						Bit #				L		B		G	
						Bit #				O		R			
										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): 418										AV (DP): 278					
SURVEYS															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)	
16,072		87.67		178.46		6,282		9,817.84		-883.18		-9,814.67		1.66	
16,167		87.54		180.05		6,286		9,912.74		-881.94		-9,909.57		1.68	
16,262		88.33		179.61		6,289		10,007.68		-881.66		-10,004.51		0.95	
16,356		88.46		179.08		6,292		10,101.63		-880.59		-10,098.47		0.58	
16,451		90.75		182.33		6,293		10,196.60		-881.75		-10,193.44		4.18	
16,546		89.91		180.84		6,292		10,291.57		-884.38		-10,288.40		1.80	
16,641		90.26		181.45		6,292		10,386.56		-886.28		-10,383.38		0.74	
16,704		90.09		181.45		6,292		10,449.54		-887.87		-10,446.36		0.27	
OPERATION DETAILS															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION								
06:00	10:00	4.00	P	CASPRD1	25	PRIMCEM	PUMP 269 BBLS 11.5 PPG LEAD CMT (615 SKS, 2.46 YLD). PUMPED 486 BBLS 14.4 TAIL CMT (2,185 SKS, 1.25 YLD). DISPLACED WITH 388 BBLS H2O. BUMPED PLUG 500 PSI OVER 12/5/15 @ 09:10 AM. 3 1/2 BBLS BLED BACK. 30 BBLS SPACER RETURNED TO SURFACE. FULL RETURNS DURING CMT OPS. RD BAKER CEMENTING EQUIPMENT.								
10:00	14:00	4.00	P	CASPRD1	29	NDBOPE	ND BOP. SET SLIPS WITH 95 K. CUT EXCESS CASING. INSTALL TA CAP. RELEASE RIG @ 14:00 HRS 12/05/2015.								
Daily Operations Comments															
UTILIZING PLAN #4, KOP 5,962' MD, LANDING POINT 6,278' TVD. 90.4 INC, 180.21 AZM. LATERAL STARTS AT 6,675' (85°). (TOTAL SLIDE FTG LAST 24 HRS= 125', 5.5 HRS) NOTIFIED TRRC CHRIS SHULL 12/4/15 OF PLANS TO RUN & CMT PROD CSG.															