


[illegible]





DAILY DRILLING REPORT


General Information									
LEASE UNIVERSITY EAST		WELL NUMBER 4716 JH		API WELL NUMBER 42-105-41918		DATE 1/24/2014			
COUNTY, STATE CROCKETT		LOCATION 23.1 MILES NW FROM OZONA				TRRC PERMIT NUMBER 773883			
OPERATOR EP ENERGY				CONTRACTOR Integrity Services, LLC					
OPERATOR REPRESENTATIVE PERRY EVANS				CONTRACTOR REPRESENTATIVE INTEGRITY SERVICES, LLC					
Texas Railroad Commission								Depth	
TRRC JOB NUMBER 581		TRRC CONTACT NAME AMY				PROPOSED MEASURED DEPTH (MD) 800'			
TRRC CONTACT DATE 1/23/2014		TRRC CONTACT TIME 7:15							
Casing						Survey Information			
	OD	ID	WEIGHT	GRADE	CONNECTION	MD	TVD	ANGLE	
Conductor	14"					0	0	0	
Surface	9 5/8"	8.835"	40	P110	LTC				
0									
	OD	ID	WEIGHT	GRADE	CONNECTION				
	4 1/2	2 1/8	16.6		2 7/8" IF		-		
BHA							-		
	OD	ID	LENGTH	WEIGHT	CONNECTION		-		
Bit	12.25"	N/A	0.29		DTH SPLINE		-		
DTH	10 5/8"	2 1/4"	6.55		6 5/8" REG		-		
BIT SUB	5 7/8"	3 1/2"	3.2		4"FH x 6 5/8" Reg		-		
SQUARE D/C	9"	3 1/2"	29 7/8		4" FH		-		
SLIP SUB	5 1/2"	2 13/16"	1.3		4" FH		-		
3 EA.Collars	5 1/2"	2 13/16"	91.87		4" FH		-		
X.O.	5 1/2"	2 1/8"	1		4" FH x 2 7/8" IF				
Daily Activities									
FROM	TO	ELAPSED TIME	REMARKS						
6:00	6:00	-	TOUR CHANGE / SAFETY MEETING						
6:00	10:00	4.00	FINISH RIGGING UP						
10:00	16:00	8.00	WAIT ON NEW BIT SUB						
16:00	17:00	1.00	PICK UP BHA F/ BIT - 40'						
17:00	18:00	1.00	DRLG F/ 40' - 134'						
18:00	18:00	-	TOUR CHANGE / SAFETY MEETING						
18:00	0:30	6.50	DRLG F/ 134' - 839' TD WELL @ 839'						
0:30	1:00	0.50	CIRC. AND BLOW HOLE CLEAN						
1:00	2:00	1.00	TOOH F/ 839' - 134'						
2:00	2:30	0.50	LAYDOWN BHA F/ 134' - BIT						
2:30	3:00	0.50	REMOVE DIVERTER HEAD + BLOOIE LINE						
3:00	6:00	3.00	RUN 18 JTS OF 9 5/8" CASING TAGGED UP RIG UP CEMENTERS						
TOTAL HOURS		24.00							
Crew									
TITLE		NAME		HOURS	NAME				
RIG MANAGER		BRANDON TICHENOR		24	BRANDON TICHENOR				
DRILLER		ROBERT		12	MYRON				
FLOOR HAND		WILL		12	KYLE				
FLOOR HAND		JEFF		12	DANIEL				
Bit Information									
BIT NO	SIZE	MAKE	TYPE	FOOTAGE	HOURS	ROP	WOB	RPM	
1 NEW	12 1/4	NUMA	DTH	799	7 1/2	106.53	2-3000 LBS	35-40	
BIT SERIAL #									
Mist Drilling Information									
Compressed Air Information									
COMBO	PUMP #1	COMBO	DECK AIR	COMPRESSOR #1	COMPRESSOR #2	COMPRESSOR #3	COMPRESSOR #4	BOOSTER	
Type	BEAN	MAKE	ATLAS COPCO	SULLAIR	SULLAIR	SULLAIR	SULLAIR	Hurricane	
Gal/Min	40	CFM	1250	900	900	0	0		
		PSI	350	305	305	0	0	2000	
Drilling Fluid & Chemicals									
			TYPE	AMOUNT	TYPE			AMOUNT	
			WEATHERFORD FMA 100	2GAL/HR	WEATHERFORD DIONIC SHALE STABILIZER			1GAL/HR	
Fuel									
FUEL TYPE	VENDOR			BEG QTY	RECEIVED QTY	TOTAL QTY	QTY USED	QTY REMAINING	
Diesel	Fuel Source			2,112	2,062	4,174	696	3,478	
SAFETY MEETING / JOB SAFETY ANALYSIS									
DAYLIGHT TOUR				MORNING TOUR					
TOPIC	DRILLING AND MAKING CONN.				TOOH, AND RUN CASING				
JSA	WATCH PINCH POINTS				KEEP CLEAN WORK AREA AT ALL TIMES				
STOP CARDS	0				0				
NEAR MISSES	0				0				


[illegible]

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: JEFF WEST / DAVID WALDRUM Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Report Number: 003 Report Date: 03/17/2014 Spud Date: Release Date: DFS: DOL: 2 AFE Days: 10 Last BOP T.: Safety & Environmental Incident: No																																															
Depth md/tvd (ft): 864.00 / 863.99 Progress: / = 0.00 ROP: / = 0.00 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,851.01 Ground Level (ft): 2,826.0 POB: 26 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>61,789</td> <td>0</td> <td>0</td> <td>61,789</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>407,999</td> <td>0</td> <td>0</td> <td>407,999</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	61,789	0	0	61,789	Cum Cost(\$)	407,999	0	0	407,999	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383																			
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Current Activity: HOOK UP HOSES TO BELL NIPPLE AND FLOWLINE. 24 Hr Summary: NU BOPS. TEST BOPS. (PIPE RAMS DID NOT TEST). WAITE ON 5" RAMS. INSTALL RAMS. REINSTALL TEST PLUG AND PIPE. TEST RAMS. INSTALL BELL NIPPLE AND FLOWLINE. 24 Hr Forecast: PU BHA # 1. TIH TO FLOAT COLLAR. DISPLACE WATER W/ OBM. REPAIR MUD PUMP. DRILL SHOE TRACK. DRILL BACK BUILD.																																																							
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FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																																
06:00	10:30	4.50	P	CASPRD1	27	TSTWHEQ	NIPPLE UP BOPE.																																																
10:30	15:30	5.00	P	CASPRD1	19	TEST	TEST BOPE. BLIND RAMS, FLOOR VALVES, CHOKE MANIFOLD, STANDPIPE BACK TO PUMPS, @ 250PSI LOW, & 5000PSI HIGH. TEST ANNULAR @ 250PSI LOW, & 3500PSI HIGH.																																																
15:30	20:30	5.00	N	CASPRD1	47	RROTHR	PIPE RAMS WOULD NOT TEST. WAITE ON RAMS.																																																
20:30	23:00	2.50	P	CASPRD1	30	TSTWCEQ	RESET TEST PLUG AND TEST PIPE RAMS TO 250 PSI LOW AND 5000 PSI HIGH FOR 5 MINUTES EACH. TEST CASING TO 1500 PSI FOR 30 MINUTES.																																																
23:00	23:30	0.50	P	CASPRD1	30	TSTWCEQ	RIG DOWN TESTING EQUIPMENT																																																
23:30	06:00	6.50	P	CASPRD1	28	NUBOPE	INSTALL BELL NIPPLE AND FLOWLINE. CENTER STACK. HOOK UP FILL UP, TRIP TANK AND MUD BUCKET DRAIN HOSES.																																																
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Current Activity: REMOVE SECTIONS OF MANIFOLD TO FIND BLOCKAGE. 24 Hr Summary: C/O BAILS AND ELEVATORS. MOVE DIRECTIONAL TOOLS. PU BHA # 1. TIH TO FLOAT COLLAR. REPAIR MUD PUMP AND FLOWLINE BLADDER. ATTEMPT TO DISPLACE WATER. (FLOWLINE MANIFOLD PLUGGED UP). ATTEMPT TO CLEAR MANIFOLD. 24 Hr Forecast: DISPLACE WATER W/ OBM. DRILL OUT SHOE TRACK. DRILL SIDE BUILD.																																				
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FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	07:30	1.50	P	CASPRD1	42	OTHER	INSTALL ELEVATORS. M/U BHA # 1																													
07:30	08:30	1.00	N	CASPRD1	47	RROTHR	TIGHTEN ALL HOSES ON ST- 80																													
08:30	09:30	1.00	P	CASPRD1	14	PULDSTR	SCRIBE UBHO SUB AND INSERT MWD.																													
09:30	10:30	1.00	N	CASPRD1	47	RROTHR	WORK ON FLOWLINE (BLADDER LEAKING)																													
10:30	12:00	1.50	P	CASPRD1	13	TRIP	TIH TO 795'																													
12:00	22:00	10.00	N	CASPRD1	45	RRCIRC	REPAIR MUD PUMP AND FLOWLINE BLADDER.																													
22:00	06:00	8.00	P	CASPRD1	15	CIRC	REPAIR LEAKS ON FLOWLINE AND FLOWLINE MANIFOLD. ATTEMPT TO CLEAN OUT MANIFOLD. (30 SPP MAX FLOW).																													
Daily Operations Comments																																				
6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.10' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 50'.																																				

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Depth md/tvd (ft): 2,700.01 / 2,680.12 Progress (ft): 1,836.00 ROP: 1,836.0 / 15.50 = 118.45 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,651.01 Ground Level (ft): 2,626.0 POB: 18 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>72,676</td> <td>0</td> <td>0</td> <td>72,676</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>542,915</td> <td>0</td> <td>0</td> <td>542,915</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	72,676	0	0	72,676	Cum Cost(\$):	542,915	0	0	542,915	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383
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Current Activity: DRILL SIDE BUILD @ 2,700' (PTB = 2,700', TVD 2,680', INC 10.5°, AZM 60.0°, 17.4 AHEAD, 0.1 LEFT, VS - 121.5') 24 Hr Summary: UNPLUG MANIFOLD TO SHAKERS, DISPLACE W/ OBM, DRILL FLOAT EQUIPMENT AND CEMENT. DRILL SIDE BUILD 864' TO 1,113'. UNCLUG FLOWLINE MANIFOLD. DRILL SIDE BUILD 1,113' - 2,700'. 24 Hr Forecast: DRILL SIDE BUILD.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: Donald Gillaspay Time: 17:00 Oil Cnt (%): 65 Location: ICTION TANK H2O Cnt (%): 25 Pit Temp (°F): 83 Sand Cnt: Depth (ft): 1,119.00 MBT: Density (ppg): 8.90 pH: FV (s/qt): 64 Pm: PV (cp): 20 P/Mf: YP (lb/100ft²): 18 Chloride: Gels (l): 15/19/21 Calcium: WL: 9.80 LCM: HTHP (°F): 250 ES (mV): 280.0 Cake: 2.00 LGS (%): 8.00 Solids (lbm/bbl): 70 Ex Lime (ppb): 2.3 ECD (ppg): 9.5 OWR: 72.0 / 28.0		D M Cost(\$): \$4,564.44 C M Cost(\$): \$4,564.44 Mud Additives EZ MUL 1 ENGINEER 24 HOURS 3 CALCIUM CHLORIDE PO 56		Bit# 1 S/N 7143321 Size (in) 8.75 Mfg HUGHES IADC Type Model # T606X Jets 6X14 Depth In (ft) 864 Depth Out (ft) Bit Rotations 60/75 On Btm Hrs Cum 15.50 Footage Cum (ft) 1,836 ROP Cum 118.5 WOB mm/mx (kip) / 25 / 35 RPM rot/bit / 60 / 75 Bit HP 1.56 HSI 1.73 PSI Drop (psi) 317.08 Jet Vel (ft/s) 199.55 Imp Force 516.18		Size(in) MD(ft)/TVD(ft) FT/LOT(ppg) 9.63 864.00 / 864.00 5.50 15,929.03 / 7,040.01 / INVENTORY Item Inv MUD DIESEL 8,370 DIESEL 8,625 SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 50/// 2 50///																														
MUD LOGGING																																				
Trip Gas (units): @ BG Gas (units): Conn Gas (units) @ Form: Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)		Grading I O D L B G O R Bit # Bit # 1																																
BHA # 1				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 8,200																														
1	X- OVER	2.750	6.562	3.36	3.36	Off Btm Torque: 1,500																														
3	STEEL DRILL COLLARS	2.812	6.437	89.82	93.18	Str. Wt. Up: 102																														
1	X- OVER SUB	3.250	6.500	1.69	94.87	Str. Wt. Down: 95																														
1	NON MAG DRILL COLLAR	2.750	6.500	30.13	125.00	Str. Wt. Rot.: 98																														
1	NON MAG DRILL COLLAR	3.250	6.750	30.42	155.42	Max Over Pull:																														
1	UBHO SUB	2.429	6.500	3.56	158.98																															
1	6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.1		6.750	30.45	189.43																															
1	BIT		8.750	1.00	190.43																															
Total Length: 190.43																																				
BHA PROPERTIES																																				
BHA Hrs: 16																																				
Jar Hrs:																																				
Cum String Hours: 16																																				
Weight B Jars (kip):																																				
						#1 #2 #3 Pump Type: DR DR Liner ID: 6.00 6.00 SPM: 70.00 70.00 GPM: 293.02 293.02 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): 565 SPP (psi): 2,522 AV (DC): AV (DP):																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
1,754		10.20		59.00		1,749																														
1,849		10.30		58.40		1,843																														
1,944		10.20		57.80		1,936																														
2,040		9.80		58.10		2,031																														
2,134		9.90		57.80		2,123																														
2,230		10.20		59.70		2,218																														
2,324		10.50		58.20		2,310																														
2,418		10.50		60.00		2,403																														
						-34.21																														
						-43.02																														
						-51.99																														
						-60.87																														
						-69.44																														
						-78.16																														
						-86.91																														
						-95.74																														
						71.96																														
						86.40																														
						100.76																														
						114.89																														
						128.51																														
						142.84																														
						157.30																														
						172.00																														
						34.03																														
						42.81																														
						51.75																														
						60.59																														
						69.13																														
						77.81																														
						86.53																														
						95.32																														
						1.67																														
						0.15																														
						0.15																														
						0.42																														
						0.12																														
						0.47																														
						0.43																														
						0.35																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	09:30	3.50	P	CASPRD1	45	RRCIRC	BRAKE BLIND CAPS OFF OF MANIFOLD TO UNPLUG																													
09:30	10:30	1.00	P	DRLPRD	15	CIRC	DISPLACE WELL BORE WITH OBM																													
10:30	11:30	1.00	P	DRLPRD	72	DRLCMT	DRILL CEMENT, TAG FC @ 816', DRILL FLOAT EQUIPMENT																													
11:30	15:00	3.50	P	DRLPRD	07	DRLVERT	DRILL TO SIDE BUILD FROM 864' TO 1,113' (SPUD WELL @ 11:30 AM, 3/18/2014)																													
15:00	18:00	3.00	N	DRLPRD	45	RRCIRC	UNPLUG FLOW MANIFOLD																													
18:00	06:00	12.00	P	DRLPRD	08	DRLDIR	DIRECTIONAL DRILL SIDE BUILD 1,113' TO 2,700'.																													
Daily Operations Comments																																				
6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.1' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 50'. (SPUD WELL @ 11:30 AM - 3/18/2014)																																				

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH Country: USA State/OCSS: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: RODNEY SHULTZ / MICHAEL AARON Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Report Number: 006 Report Date: 03/20/2014 Spud Date: 01/24/2014 Release Date: DFS: 2.00 DOL: 5 AFE Days: 10 Last BOP T.: 03/16/2014 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 4,846.01 / 4,796.99 Progress (ft): 2,146.00 ROP: 2,146.0 / 21.50 = 99.81 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,851.01 Ground Level (ft): 2,626.0 POB: 17 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>47,373</td> <td>0</td> <td>0</td> <td>47,373</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>590,288</td> <td>0</td> <td>0</td> <td>590,288</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	47,373	0	0	47,373	Cum Cost(\$)	590,288	0	0	590,288	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383
	Drig	Comp	Fac	Total																																
AFE #:	161632/50785																																			
Day Cost(\$):	47,373	0	0	47,373																																
Cum Cost(\$)	590,288	0	0	590,288																																
AFE(\$):	1,948,383	3,880,000	345,000	6,173,383																																
Current Activity: DRILL SIDE BUILD @ 4846' (PTB = 4846", TVD 4797", INC 10.4°, AZM 62.8°, 6.9' BEHIND, 0.3' LEFT, VS -296.83') 24 Hr Summary: DRILL SIDE BUILD F/ 2700' T/ 4846'. 24 Hr Forecast: DRILL SIDE BUILD.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: RON CUNNINGHAM Time: 17:00 Oil Cnt (%): 75 Location: JCTION TANK H2O Cnt (%): 25 Pit Temp (°F): 90 Sand Cnt: Depth (ft): 3,910.01 MBT: Density (ppg): 8.90 pH: FV (s/qt): 62 Pm: PV (cp): 22 P#Mf: YP (lb/100ft²): 15 Chloride: Gels (l): 15/18/23 Calcium: WL: 9.80 LCM: HTHP (°F): 250 ES (mV): 460.0 Cake: 2.00 LGS (%): 5.70 Solids (lbm/bbl): 52 Ex Lime (ppb): 2.3 ECD (ppg): 9.4 OWR: 74.7 / 25.3		D M Cost(\$): \$6,647.79 C M Cost(\$): \$11,212.23 Mud Additives ENGINEER 24 HOURS EZ MUL CALCIUM CHLORIDE PO DURATONE HT GELTONE LIME		Bit# 1 S/N 7143321 Size (in) 8.75 Mfg HUGHES IADC Type Model # T606X Jets 6X14 Depth In (ft) 864 Depth Out (ft) 5,542 Bit Rotations 40/65 On Btm Hrs Cum 38.50 Footage Cum (ft) 3,982 ROP Cum 103.4 WOB mm/mx (kip) 15 / 25 RPM rot/bit 40 / 65 Bit HP 0.80 HSI 0.89 PSI Drop (psi) 204.02 Jet Vel (ft/s) 160.07 Imp Force 332.12		<table border="1"> <thead> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>Fit/LOT(ppg)</th> </tr> </thead> <tbody> <tr> <td>9.63</td> <td>864.00 /</td> <td>864.00</td> </tr> <tr> <td>5.50</td> <td>15,929.03 /</td> <td>7,040.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	9.63	864.00 /	864.00	5.50	15,929.03 /	7,040.01																				
Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)																																		
9.63	864.00 /	864.00																																		
5.50	15,929.03 /	7,040.01																																		
						INVENTORY																														
						<table border="1"> <thead> <tr> <th>Item</th> <th>Inv</th> </tr> </thead> <tbody> <tr> <td>MUD DIESEL</td> <td>4,586</td> </tr> <tr> <td>DIESEL</td> <td>3,773</td> </tr> </tbody> </table>		Item	Inv	MUD DIESEL	4,586	DIESEL	3,773																							
Item	Inv																																			
MUD DIESEL	4,586																																			
DIESEL	3,773																																			
						SOLIDS CONTROL																														
						<table border="1"> <thead> <tr> <th>Skr</th> <th>Deck 1 Screens</th> <th>Deck 2 Screens</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50///</td> <td></td> </tr> <tr> <td>2</td> <td>50///</td> <td></td> </tr> </tbody> </table>		Skr	Deck 1 Screens	Deck 2 Screens	1	50///		2	50///																					
Skr	Deck 1 Screens	Deck 2 Screens																																		
1	50///																																			
2	50///																																			
MUD LOGGING																																				
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Lag Time: (min)				Surf to Surf: Lag Strokes: Lag Time: (min)																																
				Grading I O D L B G O R Bit # 1																																
BHA # 1						STRING LOADS		MUD PUMPS																												
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	8,500																													
1	X- OVER	2.750	6.562	3.36	3.36	Off Btm Torque:	3,000																													
3	STEEL DRILL COLLARS	2.812	6.437	89.82	93.18	Str. Wt. Up:	140																													
1	X- OVER SUB	3.250	6.500	1.69	94.87	Str. Wt. Down:	126																													
1	NON MAG DRILL COLLAR	2.750	6.500	30.13	125.00	Str. Wt. Rot.:	132																													
1	NON MAG DRILL COLLAR	3.250	6.750	30.42	155.42	Max Over Pull:	8																													
1	UBHO SUB	2.429	6.500	3.56	158.98																															
1	6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.1		6.750	30.45	189.43																															
1	BIT		8.750	1.00	190.43																															
Total Length:					190.43																															
BHA PROPERTIES																																				
BHA Hrs: 22																																				
Jar Hrs:																																				
Cum String Hours: 37																																				
Weight B Jars (kip):																																				
						T GPM (gpm): 450 SPP (psi): 2,000 AV (DC): AV (DP):																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)																												
4,035		10.20		64.50		3,998		-231.66																												
4,129		8.30		66.40		4,091		-237.99																												
4,224		9.60		62.00		4,185		-244.49																												
4,319		9.00		60.70		4,279		-251.88																												
4,414		10.90		59.90		4,372		-260.06																												
4,509		10.90		62.80		4,466		-268.71																												
4,604		10.40		62.80		4,559		-276.77																												
4,700		10.40		62.70		4,653		-284.74																												
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	14:00	8.00	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 2700' T/ 3533'.																													
14:00	14:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG & TDU.																													
14:30	15:30	1.00	N	DRLPRD	47	RROTHR	LIFT FLOW LINE AND CLEAN OUT. REPAIR JET LINES																													
15:30	01:00	9.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 3533' T/ 4439'.																													
01:00	02:00	1.00	N	DRLPRD	47	RROTHR	CHANGE DRYER SHAKER SCREENS.																													
02:00	06:00	4.00	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 4439' T/ 4846'.																													
Daily Operations Comments 6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.10' .31 REV/GAL.FLOW 300 - 600,MAX DIFF 995, BIT- SUR 50'. (SPUD WELL @ 11:30 AM - 3/18/2014)																																				

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH Country: USA State/OCGS: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: RODNEY SHULTZ / MICHAEL AARON Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Report Number: 007 Report Date: 03/21/2014 Spud Date: 01/24/2014 Release Date: DFS: 3.00 DOL: 6 AFE Days: 10 Last BOP T.: 03/16/2014 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 5,606.01 / 5,551.35 Progress (ft): 760.00 ROP: 760.0 / 13.50 = 56.30 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,851.01 Ground Level (ft): 2,626.0 POB: 17 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>106,760</td> <td>0</td> <td>0</td> <td>106,760</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>697,049</td> <td>0</td> <td>0</td> <td>697,049</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	106,760	0	0	106,760	Cum Cost(\$):	697,049	0	0	697,049	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383
	Drig	Comp	Fac	Total																																
AFE #:	161632/50785																																			
Day Cost(\$):	106,760	0	0	106,760																																
Cum Cost(\$):	697,049	0	0	697,049																																
AFE(\$):	1,948,383	3,880,000	345,000	6,173,383																																
Current Activity: DRILL SIDE BUILD @ 5606' (PTB = 5606", TVD 5551', INC 5.3", AZM 55.2", 13.7' BEHIND, 6.8' LEFT, VS -357.0') 24 Hr Summary: DRILL SIDE BUILD F/ 4846' T/ 5542'. TROUBLE SHOOT MWD. POOH FOR MWD FAILURE. L/D BHA #1 P/U BHA #2. TIH DRILL SIDE BUILD F/ 5542' T/ 5606' 24 Hr Forecast: DRILL SIDE BUILD.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: RON CUNNINGHAM Time: 17:00 Oil Cnt (%): 67 Location: ICTION TANK H2O Cnt (%): 22 Pit Temp ("F): 119 Sand Cnt: Depth (ft): 5,517.01 MBT: Density (ppg): 8.90 pH: FV (s/qt): 52 Pm: PV (cp): 18 P/Mf: YP (lb/100ft²): 16 Chloride: Gels (s): 14/20/23 Calcium: WL: 9.80 LCM: HTHP ("F): 250 ES (mV): 460.0 Cake: 2.00 LGS (%): 8.10 Solids (lbm/bbl): 74 Ex Lime (ppb): 2.3 ECD (ppg): 9.4 OWR: 74.7 / 25.3		D M Cost(\$): \$7,351.33 C M Cost(\$): \$18,563.56 Mud Additives Used BAROID RIG WASH 1 GELTONE 23 INVERMUL 1 DRILLTREAT 3 LIME 40 OIL ABSORBANT 10 ENGINEER 24 HOURS 1 BAROID 40 CALCIUM CHLORIDE PO 112		Bit# 1 S/N 7143321 7147732 Size (in) 8.75 8.75 Mfg HUGHES HUGHES IADC Type Model # T606X T606X Jets 6X14 6X14 Depth In (ft) 864 5,542 Depth Out (ft) 5,542 Bit Rotations 40/40 40/40 On Btm Hrs Cum 12.00 1.50 Footage Cum (ft) 696 64 ROP Cum 92.6 42.7 WOB mm/mx (kip) 15 / 25 15 / 15 RPM rot/bit 40 / 40 40 / 40 Bit HP 0.81 0.81 HSI 0.90 0.90 PSI Drop (psi) 205.92 205.92 Jet Vel (ft/s) 160.81 160.81 Imp Force 335.22 335.22		Size(in) MD(ft)/TVD(ft) FT/LOT(ppg) 9.63 864.00 / 864.00 5.50 15,929.03 / 7,040.01 / INVENTORY Item Inv MUD DIESEL 10,216 DIESEL 9,560 SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 50/// 2 50///																														
MUD LOGGING																																				
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Surf to Surf: Lag Strokes: Lag Time: (min)		Grading I O D L B G O R Bit # 1 Bit #																																		
BHA # 2				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 8,500																														
1	X- OVER	2.812	6.750	3.36	3.36	Off Btm Torque: 3,500																														
3	STEEL DRILL COLLARS	2.812	6.437	89.82	93.18	Str. Wt. Up: 160																														
1	X- OVER SUB	2.812	6.750	1.69	94.87	Str. Wt. Down: 150																														
1	NON MAG DRILL COLLAR	2.812	6.375	30.13	125.00	Str. Wt. Rot.: 145																														
1	NON MAG DRILL COLLAR	3.312	6.750	30.42	155.42	Max Over Pull:																														
1	UBHO SUB	2.812	6.687	3.56	158.98																															
1	6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.6	1.750	6.750	31.04	190.02																															
1	BIT		8.750	1.00	191.02																															
				Total Length: 191.02																																
				BHA PROPERTIES																																
				BHA Hrs: 12																																
				Jar Hrs:																																
				Cum String Hours: 49																																
				Weight B Jars (kip):																																
						T GPM (gpm): 450 SPP (psi): 2,200 AV (DC): AV (DP):																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
4,796		10.70		61.60		4,748																														
4,891		9.70		59.40		4,841																														
4,987		8.40		58.00		4,936																														
5,081		8.00		56.20		5,029																														
5,175		6.50		55.30		5,122																														
5,271		5.50		51.20		5,218																														
5,366		5.80		55.70		5,312																														
5,461		5.30		55.20		5,407																														
						V Section (ft)																														
						-292.99																														
						-301.30																														
						-309.16																														
						-316.47																														
						-323.16																														
						-329.15																														
						-334.73																														
						-339.96																														
						+E/-W (ft)																														
						510.51																														
						525.15																														
						538.06																														
						549.32																														
						559.13																														
						567.18																														
						574.70																														
						582.26																														
						+N/-S (ft)																														
						291.75																														
						300.01																														
						307.85																														
						315.12																														
						321.79																														
						327.77																														
						333.33																														
						338.54																														
						Dog Leg (°/100ft)																														
						0.38																														
						1.13																														
						1.37																														
						0.51																														
						1.60																														
						1.13																														
						0.56																														
						0.53																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	12:00	6.00	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 4846' T/ 5090'.																													
12:00	12:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG & TDU.																													
12:30	18:00	5.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 5090' T/ 5511'.																													
18:00	18:30	0.50	N	DRLPRD	57	DIRFAIL	TROUBLE SHOOT MWD.																													
18:30	19:00	0.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 5511' T/ 5542'.																													
19:00	19:30	0.50	N	DRLPRD	57	DIRFAIL	TROUBLE SHOOT MWD.																													
19:30	22:30	3.00	N	DRLPRD	13	TRIP	POOH FOR TOOL FAILURE.																													
22:30	01:00	2.50	N	DRLPRD	14	PULDSTR	CHANGE MWD TOOL, MOTOR, & BIT.																													
01:00	02:00	1.00	N	DRLPRD	13	TRIP	TIH TO 2130'.																													
02:00	02:30	0.50	N	DRLPRD	16	WASHR	W/R F/ 2090' T/ 2182'.																													
02:30	04:00	1.50	N	DRLPRD	13	TRIP	TIH FILL PIPE EVERY 30 STDs.																													
04:00	04:30	0.50	N	DRLPRD	15	CIRC	FILL PIPE. RELOG F/ 5511' T/ 5542'.																													
04:30	06:00	1.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 5542' T/ 5606'.																													
Daily Operations Comments																																				
6 3/4" 7/8, 6.4, 8 1/2" STAB, B-B 5.10' .31 REV/GAL_FLOW 300 - 600,MAX DIFF 995, BIT- SUR 50'. (SPUD WELL @ 11:30 AM - 3/18/2014)																																				

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4716JH/OH

Report Number:

008

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

RODNEY SHULTZ / MICHAEL AARON

Engineer/Manager:

BAKER, BRENT / EVANS, PERRY

Report Date:

03/22/2014

Spud Date:

01/24/2014

Release Date:

DFS: 4.00

DOL: 7

AFE Days: 10

Last BOP T.:

03/16/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

6,750.01 / 6,694.75

Progress (ft):

1,144.00

ROP:

1,144.0 / 10.00 = 114.40

Proposed TD (ft):

15,929.00

Next Csg Point (ft):

15,929.03

Rig:

SIDEWINDER/221

Rig Phone:

713-997-1295

RKB (ft):

2,851.01

Ground Level (ft):

2,626.0

POB:

17

Total Man Hours:

0.00

AFE #:

161632/50785

Day Cost(\$):

88,300

Cum Cost(\$):

785,349

AFE(\$):

1,948,383

Drig

Comp

Fac

Total

88,300

0

0

88,300

785,349

0

0

785,349

1,948,383

3,880,000

345,000

6,173,383

Current Activity:

DRILLING CURVE. (PTB .6750,' INC. 10.8, AZI. 180.1, TVD. 6694', VS -346.0' BELOW 1.7', RIGHT 1.8').

24 Hr Summary:

DRILL SIDE BUILD F/ 5606' T/ 6678'. CIRCULATE & POOH. L/D BHA #2 P/U BHA #3. CUT & SLIP DRILL LINE. TIH DRILL CURVE F/ 6678' T/ 6750'.

24 Hr Forecast:

DRILL CURVE. POOH TO P/U LATERAL ASSEMBLY.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

RON CUNNINGHAM

Time:

17:00

Location:

JCTION TANK

Pit Temp:

Depth (ft):

6,678.01

Density (ppg):

8.90

FV (s/qt):

57

PV (cp):

19

YP (lb/100ft²):

16

Gels (l):

15/21/23

WL:

9.80

HTHP ("F):

250

Cake:

2.00

Solids (lbm/bbl):

62

ECD (ppg):

9.4

Oil Cnt (%):

68

H2O Cnt (%):

22

Sand Cnt:

MBT:

pH:

Pm:

Pf/Mf:

Chloride:

Calcium:

ES (mV):

475.0

LGS (%):

6.80

Ex Lime (ppb):

2.3

OWR:

75.6 / 24.4

MUD MATERIALS

D M Cost(\$):

\$11,839.96

C M Cost(\$):

\$30,403.52

Mud Additives

Used

ENGINEER 24 HOURS

1

CALCIUM CHLORIDE PO

224

LIME

13

INVERMUL

2

EZ MUL

1

DURATONE HT

21

BARABLOK

18

BAROID

40

BIT RECORD

Bit#

2

S/N

7147732

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

6X14

Depth In (ft)

5,542

Depth Out (ft)

6,678

Bit Rotations

65/65

On Btm Hrs Cum

8.00

Footage Cum (ft)

1,072

ROP Cum

119.6

WOB mm/mx (kip)

25 / 25

RPM rot/bit

65 / 65

Bit HP

1.42

HSI

1.58

PSI Drop (psi)

298.36

Jet Vel (ft/s)

193.57

Imp Force

485.71

3

RA3116

8.75

SMITH

FHI21

3X18

6,678

2.00

72

36.0

25 / 25

1.72

2.31

436.74

234.20

587.65

Grading

I

O

D

L

B

G

O

R

Bit #

2

1

2

BT

S

X

I

BT

BHA

Bit #

3

CASING

Size(in)

9.63

MD(ft)/TVD(ft)

864.00 / 15,929.03

Fit LOT(ppg)

864.00 / 7,040.01

INVENTORY

Item

MUD DIESEL

Inv

8,218

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50///

2

50///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 3

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

FLEX NON MAG DRILL COLLAR

3.312

6.687

29.95

29.95

1

NON MAG DRILL COLLAR

3.312

6.687

30.42

60.37

1

UBHO SUB

2.812

6.750

3.56

63.93

1

6 3/4" 4/5 LOBE, 7.0 STAGE, 2.12"

1.750

6.750

25.55

89.48

1

FHI21

8.750

8.750

1.00

90.48

Total Length:

90.48

STRING LOADS

On Btm Torque:

9,000

Off Btm Torque:

3,000

Str. Wt. Up:

170

Str. Wt. Down:

150

Str. Wt. Rot.:

160

Max Over Pull:

10

MUD PUMPS

#1

#2

#3

Pump Type:

DR

DR

Liner ID:

6.00

6.00

SPM:

65.00

65.00

GPM:

272.09

272.09

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):

544

SPP (psi):

2,600

AV (DC):

AV (DP):

BHA PROPERTIES

BHA Hrs:

8

Jar Hrs:

Cum String Hours:

10

Weight B Jars (kip):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

5,936

1.70

68.60

5,881

-354.68

604.22

353.20

0.45

6,030

1.10

65.60

5,975

-355.57

606.34

354.09

0.64

6,125

0.90

61.40

6,070

-356.30

607.82

354.82

0.22

6,217

0.40

53.00

6,162

-356.85

608.71

355.36

0.55

6,312

0.40

88.90

6,257

-357.05

609.31

355.57

0.26

6,407

0.20

34.50

6,352

-357.20

609.73

355.71

0.34

6,501

0.20

293.30

6,446

-357.40

609.68

355.91

0.33

6,597

0.30

316.60

6,542

-357.65

609.35

356.16

0.15

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

14:00

8.00

P

DRLPRD

08

DRLDIR

DRILL DIRECTIONAL F/ 5606' T/ 6678'.

14:00

15:00

1.00

P

DRLPRD

15

CIRC

CIRCULATE BOTTOMS UP.

15:00

15:30

0.50

P

DRLPRD

13

TRIP

SERVICE RIG & TDU

15:30

18:30

3.00

P

DRLPRD

13

TRIP

POOH FOR CURVE ASSEMBLY.

18:30

20:00

1.50

P

DRLPRD

14

PULDSTR

L/D BHA #2 P/U BHA #3.

20:00

21:00

1.00

P

DRLPRD

13

TRIP

TIH TO SHOE. FILL PIPE & TEST MWD.

21:00

00:00

3.00

P

DRLPRD

17

CUTSLIP

SLIP & CUT DRILL LINE.

00:00

01:30

1.50

N

DRLPRD

47

RROTHR

REPAIR COOLING SYSTEM FOR BRAKES.

01:30

04:00

2.50

P

DRLPRD

13

TRIP

TIH FILL PIPE EVERY 30 STDS.

04:00

06:00

2.00

P

DRLPRD


09

DRLCRV

DRILL CURVE F/ 6678' T/ 6750'.

Daily Operations Comments

6 3/4" 4/5, 7, SLICK, B-B 3.62' .52 REV/GAL, FLOW 300 - 600, MAX DIFF 1015, BIT- SUR 46'. (SPUD WELL @ 11:30 AM - 3/18/2014)

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH Country: USA State/OCSS: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: RODNEY SHULTZ / MICHAEL AARON Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Report Number: 009 Report Date: 03/23/2014 Spud Date: 01/24/2014 Release Date: DFS: 5.00 DOL: 8 AFE Days: 10 Last BOP T.: 03/16/2014 Safety & Environmental Incident: No																																									
Depth md/tvd (ft): 7,386.01 / 7,100.43 Progress (ft): 636.00 ROP: 636.0 / 17.00 = 37.41 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,851.01 Ground Level (ft): 2,626.0 POB: 16 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>58,221</td> <td>0</td> <td>0</td> <td>58,221</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>843,570</td> <td>0</td> <td>0</td> <td>843,570</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	58,221	0	0	58,221	Cum Cost(\$):	843,570	0	0	843,570	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383													
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AFE(\$):	1,948,383	3,880,000	345,000	6,173,383																																													
Current Activity: P/U LATERAL ASSEMBLY. LATERAL LENGTH- 36' (PTB ,7386' INC. 91.0, AZI. 182.9, TVD. 7099', VS 76.37' BELOW 15.7', LEFT 2.6'). 24 Hr Summary: DRILL CURVE F/ 6750' T/ 7386'. CIRCULATE 2 BOTTOMS UP. POOH. L/D CURVE ASSEMBLY, P/U LATERAL ASSEMBLY. 24 Hr Forecast: FINISH P/U LATERAL ASSEMBLY. TIH. DRILL LATERAL.																																																	
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																																											
Fluids Co.: HALLIBURTON Fluids Eng: RON CUNNINGHAM Time: 17:00 Oil Cnt (%): 66 Location: JCTION TANK H2O Cnt (%): 24 Pit Temp (°F): 122 Sand Cnt: Depth (ft): 7,258.01 MBT: Density (ppg): 8.90 pH: FV (s/qt): 55 Pm: PV (cp): 18 P/Mf: YP (lb/100ft²): 17 Chloride: Gels (l): 15/19/25 Calcium: WL: 9.80 LCM: HTHP (°F): 250 ES (mV): 505.0 Cake: 2.00 LGS (%): 6.80 Solids (lbm/bbl): 62 Ex Lime (ppb): 2.3 ECD (ppg): 9.4 OWR: 73.3 / 26.7		D M Cost(\$): \$4,396.00 C M Cost(\$): \$34,799.52 Mud Additives Used LIME 45 ENGINEER 24 HOURS 1 BARABLOK 1 CALCIUM CHLORIDE PO 56 GELTONE 18 DURATONE HT 1 BAROID RIG WASH 1		Bit# 3 S/N RA3116 Size (in) 8.75 Mfg SMITH IADC Type FHI21 Model # Jets 3X18 Depth In (ft) 6,678 Depth Out (ft) 7,386 Bit Rotations / On Btm Hrs Cum 19.00 Footage Cum (ft) 708 ROP Cum 37.3 WOB mm/mx (kip) 45 / 45 RPM rot/bit / Bit HP 0.57 HSI 0.77 PSI Drop (psi) 209.33 Jet Vel (ft/s) 162.14 Imp Force 281.65		Size(in) 9.63 MD(ft)/TVD(ft) 864.00 / 15,929.03 FIT LOT(ppg) 864.00 / 7,040.01																																											
MUD LOGGING				INVENTORY																																													
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Lag Time: (min)				Item MUD DIESEL Inv 5,856 DIESEL 14,016																																													
BHA # 3				SOLIDS CONTROL																																													
<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>FLEX NON MAG DRILL COLLAR</td> <td>3.312</td> <td>6.687</td> <td>29.95</td> <td>29.95</td> </tr> <tr> <td>1</td> <td>NON MAG DRILL COLLAR</td> <td>3.312</td> <td>6.687</td> <td>30.42</td> <td>60.37</td> </tr> <tr> <td>1</td> <td>UBHO SUB</td> <td>2.812</td> <td>6.750</td> <td>3.56</td> <td>63.93</td> </tr> <tr> <td>1</td> <td>6 3/4" 4/5 LOBE, 7.0 STAGE, 2.12"</td> <td>1.750</td> <td>6.750</td> <td>25.55</td> <td>89.48</td> </tr> <tr> <td>1</td> <td>FHI21</td> <td>8.750</td> <td>8.750</td> <td>1.00</td> <td>90.48</td> </tr> <tr> <td colspan="5">Total Length:</td> <td>90.48</td> </tr> </tbody> </table>				Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	1	FLEX NON MAG DRILL COLLAR	3.312	6.687	29.95	29.95	1	NON MAG DRILL COLLAR	3.312	6.687	30.42	60.37	1	UBHO SUB	2.812	6.750	3.56	63.93	1	6 3/4" 4/5 LOBE, 7.0 STAGE, 2.12"	1.750	6.750	25.55	89.48	1	FHI21	8.750	8.750	1.00	90.48	Total Length:					90.48	Skr 1 50/// Deck 1 Screens 2 50/// Deck 2 Screens			
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Total Length:					90.48																																												
STRING LOADS				MUD PUMPS																																													
On Btm Torque: Off Btm Torque: Str. Wt. Up: 180 Str. Wt. Down: 160 Str. Wt. Rot.: 170 Max Over Pull: 10				<table border="1"> <thead> <tr> <th></th> <th>#1</th> <th>#2</th> <th>#3</th> </tr> </thead> <tbody> <tr> <td>Pump Type:</td> <td>DR</td> <td>DR</td> <td></td> </tr> <tr> <td>Liner ID:</td> <td>6.00</td> <td>6.00</td> <td></td> </tr> <tr> <td>SPM:</td> <td>45.00</td> <td>45.00</td> <td></td> </tr> <tr> <td>GPM:</td> <td>188.37</td> <td>188.37</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> </tbody> </table>					#1	#2	#3	Pump Type:	DR	DR		Liner ID:	6.00	6.00		SPM:	45.00	45.00		GPM:	188.37	188.37		1 SPM:	0.00	0.00		Pressure:	0.00	0.00		2 SPM:	0.00	0.00		Pressure:	0.00	0.00							
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2 SPM:	0.00	0.00																																															
Pressure:	0.00	0.00																																															
BHA PROPERTIES				T GPM (gpm): 380 AV (DC): SPP (psi): 1,700 AV (DP):																																													
SURVEYS																																																	
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																																										
7,039	41.80	178.70	6,951	-224.36	609.86	222.87	11.39																																										
7,071	44.60	179.00	6,974	-202.46	610.30	200.97	8.77																																										
7,133	51.00	180.70	7,016	-156.56	610.38	155.07	10.52																																										
7,165	55.00	180.30	7,035	-131.01	610.16	129.52	12.54																																										
7,229	64.80	179.20	7,067	-75.71	610.43	74.22	15.38																																										
7,260	69.80	178.00	7,079	-47.13	611.13	45.64	16.52																																										
7,292	75.40	177.80	7,088	-16.63	612.25	15.14	17.51																																										
7,324	80.60	178.60	7,095	14.64	613.23	-16.14	16.43																																										
OPERATION DETAILS																																																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																										
06:00	17:30	11.50	P	DRLPRD	09	DRLCRV	DRILL CURVE F/ 6750' T/ 7243'.																																										
17:30	18:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG & TDU.																																										
18:00	23:30	5.50	P	DRLPRD	09	DRLCRV	DRILL CURVE F/ 7243' T/ 7386'.																																										
23:30	00:30	1.00	P	DRLPRD	15	CIRC	CIRCULATE 2 BOTTOMS UP.																																										
00:30	02:00	1.50	P	DRLPRD	13	TRIP	POOH.																																										
02:00	02:30	0.50	N	DRLPRD	47	RROTHR	CHANGE HYD. HOSE ON ST-80.																																										
02:30	05:00	2.50	P	DRLPRD	13	TRIP	POOH.																																										
05:00	06:00	1.00	P	DRLPRD	14	PULDSTR	L/D BHA# 3, P/U BHA# 4.																																										
Daily Operations Comments 6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL.FLOW 300 - 600,MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7350')																																																	

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4716JH/OH

Report Number:

010

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

RODNEY SHULTZ / MICHAEL AARON

Engineer/Manager:

BAKER, BRENT / EVANS, PERRY

Report Date:

03/24/2014

Spud Date:

01/24/2014

Release Date:

DFS: 6.00

DOL: 9

AFE Days: 10

Last BOP T.:

03/16/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

9,514.02 / 7,086.76

Progress (ft):

2,128.00

ROP:

2,128.0 / 17.50 = 121.60

Proposed TD (ft):

15,929.00

Next Csg Point (ft):

15,929.03

Rig:

SIDEWINDER/221

Rig Phone:

713-997-1295

RKB (ft):

2,851.01

Ground Level (ft):

2,626.0

POB:

16

Total Man Hours:

0.00

AFE #:

161632/50785

Day Cost(\$):

59,237

Cum Cost(\$):

902,807

AFE(\$):

1,948,383

Drig

Comp

Fac

Total

9.63

864.00 /

864.00

5.50

15,929.03 /

7,040.01

59,237

0

0

59,237

902,807

0

0

902,807

1,948,383

3,880,000

345,000

6,173,383

Current Activity:

DRILL LATERAL LATERAL LENGTH- 2160' (PTB ,9514' INC. 92.7, AZI. 180.4, TVD. 7069', VS 2203.0' BELOW 6.0', LEFT 8.8').

24 Hr Summary:

FINISH P/U BHA#4. TIH. DRILL LATERAL F/ 7386' T/ 9514'.

24 Hr Forecast:

DRILL LATERAL.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

RON CUNNINGHAM

Time:

17:00

Location:

JCTION TANK

Pit Temp (°F):

125

Depth (ft):

8,482.02

Density (ppg):

8.90

FV (s/qt):

58

PV (cp):

19

YP (lb/100ft²):

18

Gels (l):

16/19/25

WL:

9.80

HTHP (°F):

250

Cake:

2.00

Solids (lbm/bbl):

62

ECD (ppg):

9.5

Oil Cnt (%):

67

H2O Cnt (%):

23

Sand Cnt:

MBT:

pH:

Pm:

Pf/Mf:

Chloride:

Calcium:

LCM:

ES (mV):

575.0

LGS (%):

6.80

Ex Lime (ppb):

2.3

OWR:

74.4 / 25.6

D M Cost(\$):

\$6,927.55

C M Cost(\$):

\$41,727.07

Mud Additives

Used

ENGINEER 24 HOURS

1

CALCIUM CHLORIDE PO

168

BARABLOK

40

BAROID

22

GELTONE

57

LIME

Bit#

4

S/N

7147734

Size (in)

8.75

Mfg

BAKER

IADC Type

Model #

T606X

Jets

6X18

Depth In (ft)

7,386

Depth Out (ft)

Bit Rotations

65/65

On Btm Hrs Cum

17.50

Footage Cum (ft)

2,128

ROP Cum

121.6

WOB mm/mx (kip)

/

RPM rot/bit

65 / 65

Bit HP

0.86

HSI

0.58

PSI Drop (psi)

109.19

Jet Vel (ft/s)

117.10

Imp Force

293.82

Grading

I O D L B G O R

Bit #

4

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

9.63

864.00 /

864.00

5.50

15,929.03 /

7,040.01

INVENTORY

Item

Inv

MUD DIESEL

3,662

DIESEL

12,127

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50///

2

50///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 4

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SHOCK SUB

2.250

6.500

11.21

11.21

1

AGITATOR

2.500

6.500

12.98

24.19

78

26 STANDS DP

2.750

5.000

2,089.70

2,113.89

1

NON MAG DRILL COLLAR

3.312

6.687

30.13

2,144.02

1

NON MAG DRILL COLLAR

3.312

6.687

30.42

2,174.44

1

UBHO SUB

2.812

6.750

3.56

2,178.00

1

6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"

1.750

6.750

30.59

2,208.59

1

T606X BIT

8.750

8.750

1.00

2,209.59

Total Length:

2,209.59

STRING LOADS

On Btm Torque:

12,000

Off Btm Torque:

5,000

Str. Wt. Up:

205

Str. Wt. Down:

155

Str. Wt. Rot.:

175

Max Over Pull:

30

BHA PROPERTIES

BHA Hrs:

18

Jar Hrs:

Cum String Hours:

18

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

DR

DR

Liner ID:

6.00

6.00

SPM:

65.00

65.00

GPM:

272.09

272.09

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):

544

SPP (psi):

3,700

AV (DC):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

8,705

89.80

179.70

7,089

1,394.72

616.37

-1,396.23

2.15

8,800

92.90

181.80

7,087

1,489.67

615.13

-1,491.18

3.94

8,895

91.60

180.70

7,083

1,584.58

613.06

-1,586.08

1.79

8,991

89.30

178.40

7,082

1,680.56

613.81

-1,682.06

3.39

9,085

91.40

179.40

7,082

1,774.53

615.62

-1,776.04

2.47

9,180

88.40

180.40

7,082

1,869.52

615.78

-1,871.03

3.33

9,275

92.70

180.40

7,081

1,964.49

615.12

-1,966.00

4.53

9,370

87.60

177.90

7,081

2,059.43

616.53

-2,060.95

5.98

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:00

1.00

P

DRLPRD

14

PULDSTR

FINISH P/U BHA #4. LATERAL ASSEMBLY.

07:00

08:30

1.50

P

DRLPRD

13

TRIP

TIH.

08:30

10:00

1.50

N

DRLPRD

47

RROTHR

REPAIR ST-80.

10:00

12:30

2.50

P

DRLPRD

13

TRIP

TIH.

12:30

06:00

17.50

P

DRLPRD


10

DRLLAT

DRILL LATERAL F/ 7386' T/ 9514'.

Daily Operations Comments

6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL.FLOW 300 - 600,MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: RODNEY SHULTZ / MICHAEL AARON Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Report Number: 011 Report Date: 03/25/2014 Spud Date: 01/24/2014 Release Date: DFS: 7.00 DOL: 10 AFE Days: 10 Last BOP T.: 03/16/2014 Safety & Environmental Incident: No																																							
Depth md/tvd (ft): 9,695.02 / 7,081.29 Progress (ft): 181.00 ROP: 181.0 / 3.50 = 51.71 Proposed TD (ft): 15,929.00 Next Csg Point (ft): 15,929.03				Rig: SIDEWINDER/221 Rig Phone: 713-997-1295 RKB (ft): 2,651.01 Ground Level (ft): 2,626.0 POB: 19 Total Man Hours: 0.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>161632/50785</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>96,686</td> <td>0</td> <td>0</td> <td>96,686</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>999,493</td> <td>0</td> <td>0</td> <td>999,493</td> </tr> <tr> <td>AFE(\$):</td> <td>1,948,383</td> <td>3,880,000</td> <td>345,000</td> <td>6,173,383</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	161632/50785				Day Cost(\$):	96,686	0	0	96,686	Cum Cost(\$)	999,493	0	0	999,493	AFE(\$):	1,948,383	3,880,000	345,000	6,173,383											
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Cum Cost(\$)	999,493	0	0	999,493																																											
AFE(\$):	1,948,383	3,880,000	345,000	6,173,383																																											
Current Activity: TIH. LATERAL LENGTH- 2341' (PTB .9695' INC. 93.3, AZI. 185.0, TVD. 7074', VS 2383.0' ABOVE 4.3', RIGHT 3.2'). 24 Hr Summary: DRILL LATERAL F/ 9514' T/ 9695' CIRC. & POOH. CHANGE BIT & MOTOR. TIH. W/R F/ 1260' T/ 5500'. TIH. 24 Hr Forecast: DRILL LATERAL.																																															
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																																									
Fluids Co.: HALLIBURTON Fluids Eng: RON CUNNINGHAM Time: 17:00 Oil Cnt (%): 68 Location: JCTION TANK H2O Cnt (%): 21 Pit Temp: Sand Cnt: Depth (ft): 9,695.02 MBT: Density (ppg): 8.90 pH: FV (s/qt): 58 Pm: PV (cp): 20 Pf/Mf: / YP (lb/100ft²): 16 Chloride: Gels (l): 16/23/29 Calcium: WL: 9.80 LCM: HTHP ("F): 250 ES (mV): 595.0 Cake: 2.00 LGS (%): 8.10 Solids (lbm/bbl): 74 Ex Lime (ppb): 2.6 ECD (ppg): 9.5 OWR: 76.4 / 23.6		D M Cost(\$): \$7,713.42 C M Cost(\$): \$49,440.49 Mud Additives LIME 58 BAROID 59 ENGINEER 24 HOURS 51 CALCIUM CHLORIDE PO 134 BARABLOK 8 EZ MUL 1 INVERMUL 2		Bit# 4 S/N 7147734 Size (in) 8.75 Mfg BAKER IADC Type Model # T606X Jets 6X18 6X18 Depth In (ft) 7,386 Depth Out (ft) 9,695 Bit Rotations 65/65 On Btm Hrs Cum 21.00 Footage Cum (ft) 2,309 ROP Cum 110.0 WOB mm/mx (kip) / RPM rot/bit / Bit HP 0.86 HSI 0.58 PSI Drop (psi) 109.19 Jet Vel (ft/s) 117.10 Imp Force 293.82		<table border="1"> <thead> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>Fit/LOT(ppg)</th> </tr> </thead> <tbody> <tr> <td>9.63</td> <td>864.00 /</td> <td>864.00</td> </tr> <tr> <td>5.50</td> <td>15,929.03 /</td> <td>7,040.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	9.63	864.00 /	864.00	5.50	15,929.03 /	7,040.01																															
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Skr	Deck 1 Screens	Deck 2 Screens																																													
1	50///																																														
2	50///																																														
MUD LOGGING																																															
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form:		Surf to Surf: Lag Strokes: Lag Time: (min)		Grading I O D L B G O R Bit # 4 Bit # 4 2 8 RO S X 1 RO PR																																											
BHA # 5				STRING LOADS		MUD PUMPS																																									
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 12,000 Off Btm Torque: 5,000 Str. Wt. Up: 200 Str. Wt. Down: 160 Str. Wt. Rot.: 175 Max Over Pull: 25																																									
1	SHOCK SUB	2.250	6.500	10.84	10.84	<table border="1"> <thead> <tr> <th></th> <th>#1</th> <th>#2</th> <th>#3</th> </tr> </thead> <tbody> <tr> <td>Pump Type:</td> <td>DR</td> <td>DR</td> <td></td> </tr> <tr> <td>Liner ID:</td> <td>6.00</td> <td>6.00</td> <td></td> </tr> <tr> <td>SPM:</td> <td>65.00</td> <td>65.00</td> <td></td> </tr> <tr> <td>GPM:</td> <td>272.09</td> <td>272.09</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> </tbody> </table>			#1	#2	#3	Pump Type:	DR	DR		Liner ID:	6.00	6.00		SPM:	65.00	65.00		GPM:	272.09	272.09		SPR:				1 SPM:	0.00	0.00		Pressure:	0.00	0.00		2 SPM:	0.00	0.00		Pressure:	0.00	0.00	
	#1	#2	#3																																												
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2 SPM:	0.00	0.00																																													
Pressure:	0.00	0.00																																													
1	AGITATOR	2.500	6.500	12.97	23.81																																										
78	26 STANDS DP	2.750	5.000	2,089.70	2,113.51																																										
1	NON MAG DRILL COLLAR	3.312	6.687	30.13	2,143.64																																										
1	NON MAG DRILL COLLAR	3.312	6.687	30.42	2,174.06																																										
1	UBHO SUB	2.812	6.750	4.07	2,178.13																																										
1	6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"	1.750	6.750	30.42	2,208.55																																										
1	T606X BIT	8.750	8.750	1.00	2,209.55	Total Length: 2,209.55																																									
BHA PROPERTIES						BHA Hrs: 4 Jar Hrs: Cum String Hours: 21 Weight B Jars (kip):																																									
T GPM (gpm): 544 SPP (psi): 3,500 AV (DC): AV (DP):																																															
SURVEYS																																															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																																									
8,895		91.60		180.70		7,083																																									
8,991		89.30		178.40		7,082																																									
9,085		91.40		179.40		7,082																																									
9,180		88.40		180.40		7,082																																									
9,275		92.70		180.40		7,081																																									
9,370		87.60		177.90		7,081																																									
9,464		92.60		183.00		7,081																																									
9,559		89.10		182.70		7,079																																									
						2,248.24																																									
						613.06																																									
						613.81																																									
						615.62																																									
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						-1,966.00																																									
						-2,060.95																																									
						-2,154.88																																									
						-2,249.74																																									
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						4.53																																									
						5.98																																									
						7.60																																									
						3.70																																									
OPERATION DETAILS																																															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																								
06:00	09:30	3.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL F/ 9514' T/ 9695'.																																								
09:30	10:30	1.00	P	DRLPRD	15	CIRC	CIRCULATE 2 BOTTOMS UP & BUILD SLUG.																																								
10:30	11:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG & TDU.																																								
11:00	17:00	6.00	P	DRLPRD	13	TRIP	POOH TO CHECK BHA.																																								
17:00	19:30	2.50	P	DRLPRD	14	PULDSTR	BIT DBR. CHANGE BIT & MOTOR.																																								
19:30	20:30	1.00	N	DRLPRD	47	RROTHR	CHANGE OUT HOSE ON ST-80.																																								
20:30	21:30	1.00	P	DRLPRD	13	TRIP	TIH TO 1260'.																																								
21:30	03:30	6.00	P	DRLPRD	16	WASHR	W/R F/ 1260' T/ 5480'.																																								
03:30	04:30	1.00	P	DRLPRD	13	TRIP	TIH TO BOTTOM OF CURVE.																																								
04:30	05:30	1.00	P	DRLPRD	15	CIRC	CIRC. 2 BOTTOMS UP @ BOC.																																								
05:30	06:00	0.50	P	DRLPRD	13	TRIP	TIH.																																								
Daily Operations Comments 6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')																																															

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4716JH/OH

Report Number:

012

Country:

USA

Report Date:

03/26/2014

State/OCSG:

TEXAS

Spud Date:

01/24/2014

Field/Permit#:

WOLFCAMP EAST

Release Date:

DFS: 8.00

Supervisors:

RODNEY SHULTZ / MICHAEL AARON

DOL: 11

AFE Days: 10

Engineer/Manager:

BAKER, BRENT / EVANS, PERRY

Last BOP T.:

03/16/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

12,047.02 / 7,060.36

Progress (ft):

2,352.00

ROP:

2,352.0 / 23.50 = 100.09

Proposed TD (ft):

15,929.00

Next Csg Point (ft):

15,929.03

Rig:

SIDEWINDER/221

Rig Phone:

713-997-1295

RKB (ft):

2,851.01

Ground Level (ft):

2,626.0

POB:

17

Total Man Hours:

0.00

AFE #:

161632/50785

Day Cost(\$):

54,575

Cum Cost(\$):

1,057,663

AFE(\$):

1,948,383

Drig

Comp

Fac

Total

9.63

864.00 /

864.00

5.50

15,929.03 /

7,040.01

0

0

0

54,575

1,057,663

6,173,383

Current Activity:

DRILL LATERAL.

24 Hr Summary:

DRILL LATERAL F/ 9695' T/ 12047'.

24 Hr Forecast:

DRILL LATERAL.

LATERAL LENGTH- 4693' (PTB ,12047' INC. 91.0, AZI. 181.0, TVD. 7062', VS 4733.8' BELOW 8.8', LEFT 13.3').

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

RON CUNNINGHAM

Time:

17:00

Location:

JCTION TANK

Pit Temp (°F):

130

Depth (ft):

10,864.02

Density (ppg):

8.90

FV (s/qt):

60

PV (cp):

21

YP (lb/100ft²):

17

Gels (l):

19/25/32

WL:

9.80

HTHP (°F):

250

Cake:

2.00

Solids (lbm/bbl):

67

ECD (ppg):

9.5

Oil Cnt (%):

67

H2O Cnt (%):

22

Sand Cnt:

MBT:

pH:

Pm:

Pf/Mf:

Chloride:

Calcium:

LCM:

ES (mV):

610.0

LGS (%):

7.30

Ex Lime (ppb):

2.3

OWR:

75.3 / 24.7

MUD MATERIALS

D M Cost(\$):

\$9,904.88

C M Cost(\$):

\$59,345.37

Mud Additives

Used

EZ MUL

1

FUEL SURCHARGE .60

700

PALLETS

25

DURATONE HT

15

SHRINK WRAP

25

ENGINEER 24 HOURS

1

LIME

49

CALCIUM CHLORIDE PO

112

INVERMUL

1

BARABLOK

5

TRANSPORTATION

633

BIT RECORD

Bit#

5

S/N

7150241

Size (in)

8.75

Mfg

BAKER

IADC Type

Model #

T606X

Jets

6X18

Depth In (ft)

9,695

Depth Out (ft)

Bit Rotations

65/65

On Btm Hrs Cum

23.50

Footage Cum (ft)

2,352

ROP Cum

100.1

WOB mm/mx (kip)

35 / 35

RPM rot/bit

65 / 65

Bit HP

0.86

HSI

0.58

PSI Drop (psi)

109.11

Jet Vel (ft/s)

117.06

Imp Force

293.62

Grading

I O D L B G O R

Bit #

5

CASING

Size(in)

9.63

MD(ft)/TVD(ft)

864.00 /

Fit LOT(ppg)

864.00

5.50

15,929.03 /

7,040.01

INVENTORY

Item

Inv

MUD DIESEL

5,537

DIESEL

8,065

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50///

2

50///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 5

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SHOCK SUB

2.250

6.500

10.84

10.84

1

AGITATOR

2.500

6.500

12.97

23.81

78

26 STANDS DP

2.750

5.000

2,089.70

2,113.51

1

NON MAG DRILL COLLAR

3.312

6.687

30.13

2,143.64

1

NON MAG DRILL COLLAR

3.312

6.687

30.42

2,174.06

1

UBHO SUB

2.812

6.750

4.07

2,178.13

1

6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"

1.750

6.750

30.42

2,208.55

1

T606X BIT

8.750

8.750

1.00

2,209.55

Total Length:

2,209.55

STRING LOADS

On Btm Torque:

15,000

Off Btm Torque:

6,000

Str. Wt. Up:

210

Str. Wt. Down:

150

Str. Wt. Rot.:

175

Max Over Pull:

35

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

65.00

65.00

GPM:

272.09

272.09

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):

544

SPP (psi):

3,800

AV (DC):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

11,172

89.70

179.80

7,062

3,858.36

600.58

-3,859.84

1.86

11,267

91.50

181.10

7,061

3,953.35

599.83

-3,954.82

2.34

11,362

89.50

178.60

7,060

4,048.33

600.08

-4,049.81

3.37

11,457

90.40

179.40

7,060

4,143.31

601.74

-4,144.79

1.27

11,552

90.10

178.80

7,060

4,238.29

603.23

-4,239.78

0.71

11,647

90.80

179.20

7,059

4,333.27

604.89

-4,334.76

0.85

11,742

91.50

179.80

7,057

4,428.24

605.72

-4,429.74

0.97

11,837

86.60

177.10

7,058

4,523.15

608.28

-4,524.65

5.89

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

17:30

11.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL F/ 9695' T/ 10748'.

17:30

18:00

0.50

P

DRLPRD

12

RIGSVC

SERVICE RIG & TDU.

18:00

06:00

12.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL F/ 10748' T/ 12047'.

Daily Operations Comments

6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4716JH/OH

Report Number:

013

Country:

USA

Report Date:

03/27/2014

State/OCSG:

TEXAS

Spud Date:

01/24/2014

Field/Permit#:

WOLFCAMP EAST

Release Date:

03/16/2014

Supervisors:

RODNEY SHULTZ / MICHAEL AARON

DOL:

12

Engineer/Manager:

BAKER, BRENT / EVANS, PERRY

Last BOP T.:

03/16/2014

AFE Days:

10

Safety & Environmental Incident:

No

Depth md/tvd (ft):

13,498.03 / 7,045.47

Rig:

SIDEWINDER/221

Progress (ft):

1,451.00

Rig Phone:

713-997-1295

ROP:

1,451.0 / 23.50 = 61.74

RKB (ft):

2,851.01

Proposed TD (ft):

15,929.00

Ground Level (ft):

2,626.0

Next Csg Point (ft):

15,929.03

POB:

19

Total Man Hours:

0.00

AFE #:

161632/50785

Drig

Comp

Fac

Total

Day Cost(\$):

74,890

0

0

74,890

Cum Cost(\$):

1,132,552

0

0

1,132,552

AFE(\$):

1,948,383

3,880,000

345,000

6,173,383

Current Activity:

DRILL LATERAL.

LATERAL LENGTH-

6144' (PTB ,13498' INC. 91.0, AZI. 180.8, TVD. 7046', VS 6182.0' ABOVE 6.9', RIGHT 2.5').

24 Hr Summary:

DRILL LATERAL F/ 12047' T/ 13498'.

24 Hr Forecast:

DRILL LATERAL.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

RON CUNNINGHAM

Time:

17:00

Oil Cnt (%):

67

Location:

JCTION TANK

H2O Cnt (%):

22

Pit Temp (°F):

133

Sand Cnt:

Depth (ft):

12,833.03

MBT:

Density (ppg):

8.90

pH:

FV (s/qt):

60

Pm:

PV (cp):

17

Pf/Mf:

/

YP (lb/100ft²):

19

Chloride:

Gels (l):

16/24/31

Calcium:

WL:

9.80

LCM:

HTHP (°F):

250

ES (mV):

625.0

Cake:

2.00

LGS (%):

7.30

Solids (lbm/bbl):

67

Ex Lime (ppb):

3.4

ECD (ppg):

9.5

OWR:

75.3 / 24.7

MUD MATERIALS

D M Cost(\$):

\$7,738.56

C M Cost(\$):

\$67,083.93

Mud Additives

Used

INVERMUL

1

ENGINEER 24 HOURS

1

DURATONE HT

10

LIME

168

CALCIUM CHLORIDE PO

224

BIT RECORD

Bit#

5

S/N

7150241

Size (in)

8.75

Mfg

BAKER

IADC Type

Model #

T606X

Jets

6X18

Depth In (ft)

9,695

Depth Out (ft)

13,726

Bit Rotations

65/65

On Btm Hrs Cum

47.00

Footage Cum (ft)

3,803

ROP Cum

80.9

WOB mm/mx (kip)

/

35 / 35

RPM rot/bit

/

65 / 65

Bit HP

0.75

HSI

0.50

PSI Drop (psi)

99.34

Jet Vel (ft/s)

111.69

Imp Force

267.33

Grading

I

O

D

L

B

G

O

R

Bit #

5

3

8

RO

S

X

1

RO

PR

CASING

Size(in)

9.63

MD(ft)/TVD(ft)

864.00 /

864.00

5.50

15,929.03 /

7,040.01

FIT/LOT(ppg)

INVENTORY

Item

MUD DIESEL

Inv

7,129

DIESEL

5,676

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50///

2

50///

MUD LOGGING

Trip Gas (units):

@

BG Gas (units):

@

Conn Gas (units)

@

Form:

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

(min)

Lag Time:

(min)

BHA # 5

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SHOCK SUB

2.250

6.500

10.84

10.84

1

AGITATOR

2.500

6.500

12.97

23.81

78

26 STANDS DP

2.750

5.000

2,089.70

2,113.51

1

NON MAG DRILL COLLAR

3.312

6.687

30.13

2,143.64

1

NON MAG DRILL COLLAR

3.312

6.687

30.42

2,174.06

1

UBHO SUB

2.812

6.750

4.07

2,178.13

1

6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"

1.750

6.750

30.42

2,208.55

1

T606X BIT

8.750

8.750

1.00

2,209.55

Total Length:

2,209.55

STRING LOADS

On Btm Torque:

18,000

Off Btm Torque:

6,000

Str. Wt. Up:

215

Str. Wt. Down:

145

Str. Wt. Rot.:

175

Max Over Pull:

40

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

62.00

62.00

GPM:

259.54

259.54

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):

518

SPP (psi):

3,800

AV (DC):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

12,690

89.50

181.10

7,062

5,375.53

597.83

-5,377.01

1.28

12,785

92.00

181.10

7,061

5,470.51

596.01

-5,471.98

2.63

12,881

91.30

179.90

7,058

5,566.46

595.17

-5,567.93

1.45

12,975

86.50

177.90

7,060

5,660.39

596.97

-5,661.87

5.53

13,070

91.20

180.20

7,062

5,755.32

598.55

-5,756.80

5.51

13,165

92.70

181.60

7,059

5,850.25

597.06

-5,851.73

2.16

13,260

92.70

180.50

7,054

5,945.13

595.32

-5,946.61

1.16

13,354

92.00

180.80

7,050

6,039.05

594.25

-6,040.52

0.81

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

17:30

11.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL F/ 12047' T/ 12750'.

17:30

18:00

0.50

P

DRLPRD

12

RIGSVC

SERVICE RIG & TDU.

18:00

06:00

12.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL F/ 12750' T/ 13498'.

Daily Operations Comments

6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH				Report Number: 014									
				Country: USA				Report Date: 03/28/2014									
				State/OCSG: TEXAS				Spud Date: 01/24/2014									
				Field/Permit#: WOLFCAMP EAST				Release Date:									
				Supervisors: RODNEY SHULTZ / MICHAEL AARON				DFS: 10.00 DOL: 13 AFE Days: 10									
				Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Last BOP T.: 03/16/2014									
								Safety & Environmental Incident: No									
Depth md/tvd (ft): 13,726.03 / 7,037.51				Rig: SIDEWINDER/221				Drig				Comp		Fac		Total	
Progress (ft): 228.00				Rig Phone: 713-997-1295				AFE #:				161632/50785					
ROP: 228.0 / 7.50 = 30.40				RKB (ft): 2,851.01				Day Cost(\$):				89,424		0		89,424	
Proposed TD (ft): 15,929.00				Ground Level (ft): 2,626.0				Cum Cost(\$):				1,221,977		0		1,221,977	
Next Csg Point (ft): 15,929.03				POB: 19 Total Man Hours: 0.00				AFE(\$):				1,948,383		3,880,000		345,000 6,173,383	
Current Activity: TIH. LATERAL LENGTH- 6372' (PTB ,13726' INC. 89.0, AZI. 178.1, TVD. 7055.32', VS 6409.94' BELOW 2.78', RIGHT 2.65').																	
24 Hr Summary: DRILL LATERAL F/ 13498' T/ 13726'. CIRCULATE & POOH TO CHECK BHA. L/D BHA # 5 P/U BHA # 6. TIH.																	
24 Hr Forecast: FINISH TIH. DRILL LATERAL.																	
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING					
Fluids Co.: HALLIBURTON				D M Cost(\$): \$10,061.05				Bit# 5				Size(in)					
Fluids Eng: RON CUNNINGHAM				C M Cost(\$): \$77,144.98				S/N 7150241				MD(ft)/TVD(ft)					
Time: 17:00 Oil Cnt (%): 68				Mud Additives				Size (in) 8.75				864.00 / 864.00					
Location: JCTION TANK				EZ MUL 2				Mfg 8.75				15,929.03 / 7,040.01					
Pit Temp: Sand Cnt: 22				BARABLOK 18				IADC Type									
Depth (ft): 13,726.03 MBT:				BAROID 47				Model # T606X									
Density (ppg): 8.90 pH:				DURATONE HT 15													
FV (s/qt): 50 Pm:				ENGINEER 24 HOURS 1				Jets 6X18 6X18									
PV (cp): 16 P#Mf: /				CALCIUM CHLORIDE PO 146				Depth In (ft) 9,695									
YP (lb/100ft²): 15 Chloride:				LIME 100				Depth Out (ft) 13,726									
Gels (l): 14/22/28 Calcium:				WALNUT MEDIUM 10				Bit Rotations 65/65									
WL: 9.80 LCM:								On Btm Hrs Cum 54.50									
HTHP ("F"): 250 ES (mV): 610.0								Footage Cum (ft) 4,031									
Cake: 2.00 LGS (%): 7.30								ROP Cum 74.0									
Solids (lbm/bbl): 62 Ex Lime (ppb): 3.4								WOB mm/mx (kip) / 35 / 35									
ECD (ppg): 9.5 OWR: 75.6 / 24.4								RPM rot/bit / 65 / 65									
								Bit HP 0.74									
								HSI 0.50									
								PSI Drop (psi) 98.93									
								Jet Vel (ft/s) 111.46									
								Imp Force 266.22									
MUD LOGGING																	
Trip Gas (units): @ BG Gas (units):				Surf to Surf:				Grading				I O D L B G O R					
Conn Gas (units): @				Lag Strokes:				Bit #				Bit # 5 3 8 RO S X 1 RO PR					
Form:				Pore Pressure: (%) Lag Time: (min)													
BHA # 6						STRING LOADS						MUD PUMPS					
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 18,000						#1 #2 #3				
1	SHOCK SUB		2.250	6.500	10.84	10.84	Off Btm Torque: 6,000						Pump DR DR				
1	AGITATOR		2.500	6.500	12.97	23.81	Str. Wt. Up: 215						Type: 6.00 6.00				
78	26 STANDS DP		2.750	5.000	2,089.70	2,113.51	Str. Wt. Down: 140						Liner ID: 62.00 62.00				
1	NON MAG DRILL COLLAR		3.312	6.687	30.13	2,143.64	Str. Wt. Rot.: 175						SPM: 259.54 259.54				
1	NON MAG DRILL COLLAR		3.312	6.687	30.42	2,174.06	Max Over Pull: 40						SPR: 1 SPM: 0.00 0.00				
1	UBHO SUB		2.812	6.750	4.07	2,178.13							Pressure: 0.00 0.00				
1	6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"		1.750	6.750	26.32	2,204.45							2 SPM: 0.00 0.00				
1	T606X BIT		8.750	8.750	1.00	2,205.45							Pressure: 0.00 0.00				
Total Length: 2,205.45																	
BHA PROPERTIES																	
BHA Hrs: 8																	
Jar Hrs:																	
Cum String Hours: 55																	
Weight B Jars (kip):																	
T GPM (gpm): 518 SPP (psi): 3,800																	
AV (DC): AV (DP):																	
SURVEYS																	
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)			
12,690		89.50		181.10		7,062		5,375.53		597.83		-5,377.01		1.28			
12,785		92.00		181.10		7,061		5,470.51		596.01		-5,471.98		2.63			
12,881		91.30		179.90		7,058		5,566.46		595.17		-5,567.93		1.45			
12,975		86.50		177.90		7,060		5,660.39		596.97		-5,661.87		5.53			
13,070		91.20		180.20		7,062		5,755.32		598.55		-5,756.80		5.51			
13,165		92.70		181.60		7,059		5,850.25		597.06		-5,851.73		2.16			
13,260		92.70		180.50		7,054		5,945.13		595.32		-5,946.61		1.16			
13,354		92.00		180.80		7,050		6,039.05		594.25		-6,040.52		0.81			
OPERATION DETAILS																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION										
06:00	13:30	7.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL F/ 13498' T/ 13726'.										
13:30	15:00	1.50	P	DRLPRD	15	CIRC	CIRCULATE 2 BOTTOMS UP.										
15:00	18:30	3.50	P	DRLPRD	13	TRIP	POOH TO CHECK BHA.										
18:30	19:30	1.00	P	DRLPRD	15	CIRC	CIRCULATE 2 BOTTOMS UP @ BOC.										
19:30	20:30	1.00	P	DRLPRD	13	TRIP	POOH.										
20:30	21:00	0.50	N	DRLPRD	45	RRCIRC	WORK ON TRIP TANK.										
21:00	23:30	2.50	P	DRLPRD	13	TRIP	POOH.										
23:30	02:00	2.50	P	DRLPRD	14	PULDSTR	L/D BHA # 5 P/U BHA # 6.										
02:00	06:00	4.00	P	DRLPRD	13	TRIP	TIH. FILL PIPE EVERY 30 STDs.										
Daily Operations Comments																	
6 3/4" 7/8, 6.4, SLICK, B-B 5.58" .31 REV/GAL_FLOW 300 - 600,MAX DIFF 995, BIT- SUR 51". (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')																	

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH				Report Number: 015											
				Country: USA				Report Date: 03/29/2014											
				State/OCSG: TEXAS				Spud Date: 01/24/2014											
				Field/Permit#: WOLF CAMP EAST				Release Date:											
				Supervisors: RODNEY SHULTZ / MICHAEL AARON				DFS: 11.00 DOL: 14 AFE Days: 10											
				Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Last BOP T.: 03/16/2014											
								Safety & Environmental Incident: No											
Depth md/tvd (ft): 14,921.03 / 7,071.95				Rig: SIDEWINDER/221				Drig		Comp		Fac		Total					
Progress (ft): 1,195.00				Rig Phone: 713-997-1295				AFE #:		161632/50785									
ROP: 1,195.0 / 19.50 = 61.28				RKB (ft): 2,851.01				Day Cost(\$):		73,123		0		73,123					
Proposed TD (ft): 15,929.00				Ground Level (ft): 2,626.0				Cum Cost(\$):		1,295,099		0		1,295,099					
Next Csg Point (ft): 15,929.03				POB: 19 Total Man Hours: 0.00				AFE(\$):		1,948,383		3,880,000		345,000 6,173,383					
Current Activity: DRILLING LATERAL. LATERAL LENGTH- 7567' (PTB ,14921' INC. 91.0, AZI. 180.1, TVD. 7069', VS 7605' BELOW 19.8', RIGHT 2.7').																			
24 Hr Summary: CIRCULATE @ BOC. FINISH TIH. DRILL LATERAL F/ 13726' T/ 14921'.																			
24 Hr Forecast: DRILL LATERAL.																			
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING							
Fluids Co.: HALLIBURTON				D M Cost(\$): \$6,747.64				Bit# 6				Size(in)							
Fluids Eng: RON CUNNINGHAM				C M Cost(\$): \$83,892.62				S/N 7145782				MD(ft)/TVD(ft)							
Time: 17:00 Oil Cnt (%): 68				Mud Additives				Size (in) 8.75				FIT LOT(ppg)							
Location: JCTION TANK H2O Cnt (%): 21				Used				Mfg 8.75				9.63 864.00 / 864.00							
Pit Temp (°F): 135 Sand Cnt:				BAROID 54				IADC Type				5.50 15,929.03 / 7,040.01							
Depth (ft): 14,354.03 MBT:				TRANSPORTATION 449				Model #											
Density (ppg): 8.90 pH:				CALCIUM CHLORIDE PO 56				Jets											
FV (s/qt): 52 Pm:				WALNUT MEDIUM 3				Depth In (ft)											
PV (cp): 16 P#Mf:				GELTONE 18				Depth Out (ft)											
YP (lb/100ft²): 17 Chloride:				DURATONE HT 3				Bit Rotations											
Gels (l): 15/25/30 Calcium:				PALLETS 14				On Btm Hrs Cum											
WL: 9.80 LCM:				FUEL SURCHARGE .60 350				Footage Cum (ft)											
HTHP (°F): 250 ES (mV): 585.0				LIME 50				ROP Cum											
Cake: 2.00 LGS (%): 8.10				ENGINEER 24 HOURS 1				WOB mm/mx (kip)											
Solids (lbm/bbl): 74 Ex Lime (ppb): 3.6				SHRINK WRAP 14				RPM rot/bit											
ECD (ppg): 9.5 OWR: 75.6 / 24.4								Bit HP											
								HSI											
								PSI Drop (psi)											
								Jet Vel (ft/s)											
								Imp Force											
								Grading				I O D L B G O R							
								Bit #											
								Bit # 6											
MUD LOGGING																			
Trip Gas (units): @ BG Gas (units):				Surf to Surf:															
Conn Gas (units): @				Lag Strokes:															
Form:				Pore Pressure: (%) Lag Time: (min)															
BHA # 6						STRING LOADS						MUD PUMPS							
Qty	Item Description			ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 18,000						#1 #2 #3					
1	SHOCK SUB			2.250	6.500	10.84	10.84	Off Btm Torque: 8,000						Pump DR DR					
1	AGITATOR			2.500	6.500	12.97	23.81	Str. Wt. Up: 210						Type:					
78	26 STANDS DP			2.750	5.000	2,089.70	2,113.51	Str. Wt. Down: 175						Liner ID: 6.00 6.00					
1	NON MAG DRILL COLLAR			3.312	6.687	30.13	2,143.64	Str. Wt. Rot.: 130						SPM: 62.00 62.00					
1	NON MAG DRILL COLLAR			3.312	6.687	30.42	2,174.06	Max Over Pull: 35						GPM: 259.54 259.54					
1	UBHO SUB			2.812	6.750	4.07	2,178.13							SPR:					
1	6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"			1.750	6.750	26.32	2,204.45							1 SPM: 0.00 0.00					
1	T606X BIT			8.750	8.750	1.00	2,205.45							Pressure: 0.00 0.00					
Total Length: 2,205.45							BHA PROPERTIES												
							BHA Hrs: 20												
							Jar Hrs:												
							Cum String Hours: 21												
							Weight B Jars (kip):												
													Pressure: 0.00 0.00						
													T GPM (gpm): 520 SPP (psi): 3,800						
													AV (DC): AV (DP):						
SURVEYS																			
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)					
14,113		88.30		181.40		7,057		6,797.69		591.79		-6,799.16		0.61					
14,208		86.90		179.30		7,061		6,892.60		591.21		-6,894.07		2.66					
14,302		85.70		179.40		7,067		6,986.40		592.27		-6,987.86		1.28					
14,397		88.40		180.00		7,072		7,081.26		592.77		-7,082.73		2.91					
14,493		90.40		180.80		7,073		7,177.25		592.10		-7,178.71		2.24					
14,588		92.00		183.90		7,071		7,272.14		588.21		-7,273.60		3.67					
14,684		89.70		179.80		7,069		7,368.06		585.11		-7,369.51		4.90					
14,779		89.30		178.40		7,070		7,463.04		586.60		-7,464.49		1.53					
OPERATION DETAILS																			
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION												
06:00	07:00	1.00	P	DRLPRD	15	CIRC	CIRCULATE 2 BOTTOMS UP @ BOC.												
07:00	10:00	3.00	P	DRLPRD	13	TRIP	TIH.												
10:00	17:30	7.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL F/ 13726' T/ 14270'.												
17:30	18:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG & TDU.												
18:00	06:00	12.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL F/ 14270' T/ 14921'.												
Daily Operations Comments																			
6 3/4" 7/8, 6.4, SLICK, B-B 5.58" .31 REV/GAL.FLOW 300 - 600,MAX DIFF 995, BIT- SUR 51', (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')																			

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4716JH/OH

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

RODNEY SHULTZ / MICHAEL AARON

Engineer/Manager:

BAKER, BRENT / EVANS, PERRY

Report Number:

016

Report Date:

03/30/2014

Spud Date:

01/24/2014

Release Date:

DFS: 12.00

DOL: 15

AFE Days: 10

Last BOP T.:

03/16/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

15,930.03 / 7,061.91

Progress (ft):

1,009.00

ROP:

1,009.0 / 17.00 = 59.35

Proposed TD (ft):

15,929.00

Next Csg Point (ft):

15,929.03

Rig:

SIDEWINDER/221

Rig Phone:

713-997-1295

RKB (ft):

2,851.01

Ground Level (ft):

2,626.0

POB:

18

Total Man Hours:

0.00

AFE #:

161632/50785

Day Cost(\$):

49,073

Cum Cost(\$):

1,344,172

AFE(\$):

1,948,383

Drig

Comp

Fac

Total

9.63

864.00 /

864.00

5.50

15,929.03 /

7,040.01

5.50

15,929.03 /

7,040.01

Current Activity:

L/D DRILL PIPE. LATERAL LENGTH- 8576' (PTB ,15930' INC. 90.5, AZI. 181.1, TVD. 7062', VS 8613' ABOVE 9.19', LEFT 13.74').

24 Hr Summary:

DRILL LATERAL F/ 14921' T/ 15930'. TD WELL. CIRCULATE 5 HRS. POOH 10 STDS. L/D DRILL PIPE.

24 Hr Forecast:

L/D DRILL PIPE. L/D DIR. TOOLS. RUN CASING.

MUD PROPERTIES

Fluids Co.: HALLIBURTON

Fluids Eng: RON CUNNINGHAM

Time: 20:40

Oil Cnt (%): 69

Location: JCTION TANK

H2O Cnt (%): 21

Pit Temp (°F): 137

Sand Cnt: MBT:

Depth (ft): 15,506.03

Density (ppg): 8.90

pH: 59

FV (s/qt): 15

Pf/Mf: 16

YP (lb/100ft²): 14/23/29

Calcium: 9.80

WL: 250

ES (mV): 585.0

HTHP (°F): 2.00

LGS (%): 6.70

Cake: Solids (lbm/bbl): 62

Ex Lime (ppb): 3.1

ECD (ppg): 9.5

OWR: 76.7 / 23.3

MUD MATERIALS

D M Cost(\$): \$9,035.26

C M Cost(\$): \$92,927.88

Mud Additives

Used

BARABLOK 14

LIME 179

BAROID 40

GELTONE 32

ENGINEER 24 HOURS 1

DURATONE HT 5

CALCIUM CHLORIDE PO 112

BIT RECORD

Bit# 6

S/N 7145782

Size (in) 8.75

Mfg BAKER

IADC Type T606X

Model # 6X18

Jets 13,726

Depth In (ft) 15,930

Depth Out (ft) 65/65

Bit Rotations 36.50

On Btm Hrs Cum 2,204

Footage Cum (ft) 60.4

ROP Cum 35 / 35

WOB mm/mx (kip) 65 / 65

RPM rot/bit 0.75

Bit HP 0.50

HSI 99.34

PSI Drop (psi) 111.69

Jet Vel (ft/s) 267.33

Imp Force

Grading I O D L B G O R

Bit # 6

2 6 BT S X 2 BT TD

CASING

Size(in)

MD(ft)/TVD(ft)

Fit LOT(ppg)

INVENTORY

Item

Inv

MUD DIESEL 0

DIESEL 6,951

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1 50///

2 50///

MUD LOGGING

Trip Gas (units): @

BG Gas (units): @

Conn Gas (units): @

Form:

Pore Pressure: (%)

Surf to Surf: Lag Strokes: (min)

Lag Time: (min)

BHA # 6

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1 SHOCK SUB 2.250 6.500 10.84 10.84

1 AGITATOR 2.500 6.500 12.97 23.81

78 26 STANDS DP 2.750 5.000 2,089.70 2,113.51

1 NON MAG DRILL COLLAR 3.312 6.687 30.13 2,143.64

1 NON MAG DRILL COLLAR 3.312 6.687 30.42 2,174.06

1 UBHO SUB 2.812 6.750 4.07 2,178.13

1 6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83" 1.750 6.750 26.32 2,204.45

1 T606X BIT 8.750 8.750 1.00 2,205.45

Total Length: 2,205.45

STRING LOADS

On Btm Torque: 19,000

Off Btm Torque: 8,000

Str. Wt. Up: 210

Str. Wt. Down: 110

Str. Wt. Rot.: 175

Max Over Pull: 35

MUD PUMPS

#1

#2

#3

Pump Type: DR DR

Liner ID: 6.00 6.00

SPM: 62.00 62.00

GPM: 259.54 259.54

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): 520 SPP (psi): 3,800

AV (DC): AV (DP):

BHA PROPERTIES

BHA Hrs: 17

Jar Hrs:

Cum String Hours: 38

Weight B Jars (kip):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

15,255 91.70 181.80 7,065 7,938.56 597.81 -7,940.04 1.07

15,351 91.00 180.80 7,063 8,034.51 595.63 -8,035.99 1.27

15,446 91.00 177.80 7,062 8,129.47 596.79 -8,130.96 3.16

15,540 91.00 179.40 7,060 8,223.42 599.08 -8,224.91 1.70

15,635 89.40 179.90 7,060 8,318.42 599.66 -8,319.91 1.76

15,731 90.10 179.30 7,060 8,414.41 600.34 -8,415.90 0.96

15,826 88.00 177.70 7,062 8,509.35 602.82 -8,510.85 2.78

15,884 90.50 181.10 7,062 8,567.33 603.43 -8,568.83 7.28

OPERATION DETAILS

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION

06:00 17:30 11.50 P DRLPRD 10 DRLLAT DRILL LATERAL F/ 14921' T/ 15586'.

17:30 18:00 0.50 P DRLPRD 12 RIGSVC SERVICE RIG & TDU.

18:00 23:30 5.50 P DRLLAT 10 DRILL LATERAL F/ 15586' T/ 15930'. TD WELL.

23:30 04:30 5.00 P DRLPRD 15 CIRC CIRCULATE & CLEAN HOLE. R/U L/D MACHINE. HELD THIRD PARTY SAFETY MEETING.

04:30 05:30 1.00 P DRLPRD 13 TRIP POOH 10 STANDS.

05:30 06:00 0.50 P DRLPRD 14 PULDSTR L/D DRILL PIPE.

Daily Operations Comments

6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL.FLOW 300 - 600,MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4716JH/OH				Report Number: 017										
				Country: USA				Report Date: 03/31/2014										
				State/OCSS: TEXAS				Spud Date: 01/24/2014										
				Field/Permit#: WOLF CAMP EAST				Release Date:										
				Supervisors: RODNEY SHULTZ / MICHAEL AARON				DFS: 13.00 DOL: 16 AFE Days: 10										
				Engineer/Manager: BAKER, BRENT / EVANS, PERRY				Last BOP T.: 03/16/2014										
								Safety & Environmental Incident: No										
Depth md/tvd (ft): 15,930.03 / 7,061.91				Rig: SIDEWINDER/221				Drig		Comp		Fac		Total				
Progress (ft): 0.00				Rig Phone: 713-997-1295				AFE #:		161632/50785								
ROP: 0.0 / = 0.00				RKB (ft): 2,851.01				Day Cost(\$):		60,397		0		60,397				
Proposed TD (ft): 15,929.00				Ground Level (ft): 2,626.0				Cum Cost(\$):		1,404,568		0		1,404,568				
Next Csg Point (ft): 15,929.03				POB: 28 Total Man Hours: 0.00				AFE(\$):		1,948,383		3,880,000		6,173,383				
Current Activity: RUNNING PRODUCTION CASING. (CONTACTED TRRC, TALKED TO KAY @ 04:30 FOR 12 HR. NOTICE OF SETTING CASING.)																		
24 Hr Summary: L/D DRILL PIPE. L/D DIR. TOOLS. R/U & RUN 5 1/2" PRODUCTION CASING TO 4500'.																		
24 Hr Forecast: FINISH RUNNING PRODUCTION CASING. CEMENT.																		
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING						
Fluids Co.: HALLIBURTON				D M Cost(\$): \$900.00				Bit#				Size(in)						
Fluids Eng: RON CUNNINGHAM				C M Cost(\$): \$93,827.88				S/N				MD(ft)/TVD(ft)						
Time: 20:40 Oil Cnt (%): 69				Mud Additives				Size (in)				FIT LOT(ppg)						
Location: JCTION TANK H2O Cnt (%): 21				ENGINEER 24 HOURS				Mfg				9.63 864.00 / 864.00						
Pit Temp (°F): 137 Sand Cnt:								IADC Type				5.50 15,929.03 / 7,040.01						
Depth (ft): 15,930.03 MBT:								Model #				5.50 15,929.03 / 7,040.01						
Density (ppg): 8.90 pH:								Jets										
FV (s/qt): 62 Pm:								Depth In (ft)										
PV (cp): 14 P#Mf: /								Depth Out (ft)										
YP (lb/100ft²): 17 Chloride:								Bit Rotations										
Gels (l): 15/24/30 Calcium:								On Btm Hrs Cum										
WL: 9.80 LCM:								Footage Cum (ft)										
HTHP (°F): 250 ES (mV): 575.0								ROP Cum										
Cake: 2.00 LGS (%): 6.00								WOB mm/mx (kip)										
Solids (lbm/bbl): 55 Ex Lime (ppb): 3.1								RPM rot/bit										
ECD (ppg): 9.5 OWR: 69.0 / 21.0								Bit HP										
								HSI										
								PSI Drop (psi)										
								Jet Vel (ft/s)										
								Imp Force										
								Grading				I O D L B G O R						
								Bit #										
								Bit #										
MUD LOGGING																		
Trip Gas (units): @ BG Gas (units):				Surf to Surf:														
Conn Gas (units): @				Lag Strokes:														
Form:				Pore Pressure: (%)				Lag Time: (min)										
BHA # 6						STRING LOADS						MUD PUMPS						
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:						#1					
1	SHOCK SUB		2.250	6.500	10.84	10.84	Off Btm Torque:						#2					
1	AGITATOR		2.500	6.500	12.97	23.81	Str. Wt. Up:						#3					
78	26 STANDS DP		2.750	5.000	2,089.70	2,113.51	Str. Wt. Down:											
1	NON MAG DRILL COLLAR		3.312	6.687	30.13	2,143.64	Str. Wt. Rot.:											
1	NON MAG DRILL COLLAR		3.312	6.687	30.42	2,174.06	Max Over Pull:											
1	UBHO SUB		2.812	6.750	4.07	2,178.13												
1	6 3/4" 7/8 LOBE, 6.4 STAGE, 1.83"		1.750	6.750	26.32	2,204.45												
1	T606X BIT		8.750	8.750	1.00	2,205.45												
Total Length:						2,205.45	BHA PROPERTIES											
							BHA Hrs:											
							Jar Hrs:											
							Cum String Hours:											
							Weight B Jars (kip):											
SURVEYS																		
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)				
15,255		91.70		181.80		7,065		7,938.56		597.81		-7,940.04		1.07				
15,351		91.00		180.80		7,063		8,034.51		595.63		-8,035.99		1.27				
15,446		91.00		177.80		7,062		8,129.47		596.79		-8,130.96		3.16				
15,540		91.00		179.40		7,060		8,223.42		599.08		-8,224.91		1.70				
15,635		89.40		179.90		7,060		8,318.42		599.66		-8,319.91		1.76				
15,731		90.10		179.30		7,060		8,414.41		600.34		-8,415.90		0.96				
15,826		88.00		177.70		7,062		8,509.35		602.82		-8,510.85		2.78				
15,884		90.50		181.10		7,062		8,567.33		603.43		-8,568.83		7.28				
OPERATION DETAILS																		
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION											
06:00	17:00	11.00	P	DRLPRD	14	PULDSTR	LAY DOWN DRILL PIPE.											
17:00	17:30	0.50	P	DRLPRD	13	TRIP	TIH 10 STDs. TO L/D.											
17:30	19:00	1.50	P	DRLPRD	14	PULDSTR	LAY DOWN DRILL PIPE.											
19:00	21:00	2.00	P	DRLPRD	14	PULDSTR	LAY DOWN DIR. TOOLS & 1 STD. OF DC'S.											
21:00	22:30	1.50	P	CASPRD1	23	RAMBLCK	CHANGE 5" PIPE RAMS TO 5 1/2" CASING RAMS. INSTALL CASING BAILES.											
22:30	00:00	1.50	P	CASPRD1	24	RUNCAS	HELD THIRD PARTY SAFETY MEETING. R/U CASING CREW.											
00:00	01:00	1.00	P	CASPRD1	24	RUNCAS	M/U FLOAT EQUIP. W/ JUNK CATCHER, MARKER JNT, LATCH DOWN COLLAR, & SLIDING SLEEVE. RUN CASING.											
01:00	03:30	2.50	N	CASPRD1	49	RPR3	POWER TONGS BROKE DOWN. SPARE DIDN'T HAVE RIGHT JAWS. SENT FOR ANOTHER SET.											
03:30	06:00	2.50	P	CASPRD1	24	RUNCAS	CONTINUE RUNNING 5 1/2" P-110 EC 17# LT&C. CASING TO 4500'.											
Daily Operations Comments																		
6 3/4" 7/8, 6.4, SLICK, B-B 5.58' .31 REV/GAL, FLOW 300 - 600, MAX DIFF 995, BIT- SUR 51'. (SPUD WELL @ 11:30 AM - 3/18/2014) (85 DEGREES @ 7354')																		