




DAILY DRILLING REPORT

 Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOHN LAYTON / KENNETH SWILLEY Engineer/Manager: BRENT BAKER / EVANS / GAYDOS		Report Number: 001 Report Date: 09/24/2013 Spud Date: Release Date: DFS: 0.00 DOL: 1 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																																																	
Depth md/tvd (ft): 984.00 / 984.00 Progress: / = 0.00 ROP: Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03		Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 34 Total Man Hours: 0.00		<table border="1"> <tr> <th>AFE #:</th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> <tr> <td>160182/49551</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>253,329</td> <td>0</td> <td>0</td> <td>253,329</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>360,862</td> <td>0</td> <td>0</td> <td>360,862</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>		AFE #:	Drig	Comp	Fac	Total	160182/49551					Day Cost(\$):	253,329	0	0	253,329	Cum Cost(\$)	360,862	0	0	360,862	AFE(\$):	0	0	0	0																							
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Current Activity: TESTING BOPE. 24 Hr Summary: SKID OVER UNIVERSITY 4417 HH. RIG UP. N.U. & TEST BOPE. 24 Hr Forecast: PICK UP BHA. TIH. DRILL CMT. AND FLT. EQUIPMENT. SPUD WELL. DIRECTIONAL DRILL FROM 984'																																																					
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Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 3:51 Oil Cnt (%): 68 Location: PIT H2O Cnt (%): 25 Pit Temp (°F): 124 Sand Cnt (%): 0.00 Depth (ft): 7,004.51 MBT (lbm/bbl): 0.0 Density (ppg): 9.20 pH: 0.0 FV (s/qt): 46 Pm (cc): 0.0 PV (cp): 12 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 11 Chloride (ppm): 0 Gels (l): 7/11/15 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 501.0 Cake (32nd): 2.00 LGS (%): 3.10 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.0 ECD (ppg): 9.3 OWR: 72.5 / 27.5		D M Cost(\$): \$0.00 C M Cost(\$): \$0.00 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																																																	
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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																																														
18:00	00:00	6.00	P	MIRU	01	MIRU	PREP TO SKID & SKID RIG OVER WELL. R.U.. RIG ON DAYRATE @ 00:00 HRS. 09/24/2013.																																														
00:00	03:00	3.00	P	CASSURF	28	NUBOPE	NU BOPS. INSTALL FLOWLINE ON MANIFOLD.																																														
03:00	06:00	3.00	P	CASSURF	30	TSTWCEQ	R.U. TESTERS, TEST BOPE TO EP ENERGY SPEC. TEST CASING 9-5/8 CASING 1500 PSI 30 MIN (OK).																																														
Daily Operations Comments																																																					

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Depth md/tvd (ft): 3,137.01 / 3,108.99 Progress (ft): 2,153.00 ROP: 2,153.0 / 13.50 = 159.48 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03		Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 23 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>160182/49551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>38,292</td> <td>0</td> <td>0</td> <td>38,292</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>399,154</td> <td>0</td> <td>0</td> <td>399,154</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>			Drig	Comp	Fac	Total	AFE #:	160182/49551				Day Cost(\$):	38,292	0	0	38,292	Cum Cost(\$):	399,154	0	0	399,154	AFE(\$):	0	0	0	0																																																																																							
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Current Activity: DRILLING @ 3,137' PTB: INC. 9.8° AZM. 269.3° TVD 2,881' 14.9' ABOVE 1.6' RIGHT. SPUD WELL @ 16:30 HRS ON 24 Hr Summary: TEST BOPS, INSTALL BELL NIPPLE AND FLOW LINE, PICK UP BHA. TIH. DRILL CMT. AND FLT. EQUIPMENT. SPUD WELL DIRECTIONAL DRILL FROM 984' TO 3,137'. 24 Hr Forecast: DRILL DIRECTIONAL TO KOP. TRIP FOR CURVE ASSEMBLY. BUILD CURVE.																																																																																																																					
MUD PROPERTIES Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 3:51 Oil Cnt (%): 68 Location: PIT H2O Cnt (%): 25 Pit Temp (°F): 124 Sand Cnt (%): 0.00 Depth (ft): 2,048.00 MBT (lbm/bbl): 0.0 Density (ppg): 9.20 pH: 0.0 FV (s/qt): 46 Pm (cc): 0.0 PV (cp): 12 PF (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 11 Chloride (ppm): 0 Gels (J): 7/11/15 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 501.0 Cake (32nd): 2.00 LGS (%): 3.10 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.0 ECD (ppg): 9.3 OWR: 72.5 / 27.5		MUD MATERIALS D M Cost(\$): \$1,422.36 C M Cost(\$): \$1,422.36 Mud Additives Used CALCIUM CHLORIDE PO 2 DURATONE HT 2 BARITE 41 10 CEDAR FIBER 0.5 ENGINEERING 1		BIT RECORD Bit# 1 S/N 7142220 Size (in) 8.75 Mfg HUGHES IADC Type Model # T606X Jets 6X13 Depth In (ft) 984 Depth Out (ft) Bit Rotations 50/70 On Btm Hrs Cum 13.50 Footage Cum (ft) 2,153 ROP Cum 159.5 WOB mm/mx (kip) 25 / 35 RPM rot/bit 50 / 70 Bit HP 2.13 HSI 2.74 PSI Drop (psi) 481.12 Jet Vel (ft/s) 241.76 Imp Force 675.32																																																																																																																	
MUD LOGGING Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Lag Time: (min)		INVENTORY Item Inv MUD DIESEL 6,419 DIESEL 10,099		SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 50/50/50/50 2 50/50/50/50 3 50/50/50/50																																																																																																																	
BHA # 1 <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>HUGHES T606X</td> <td></td> <td>8.758</td> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>1</td> <td>1.5" FBH 7/8 5.0 8 1/2 STAB PDM N</td> <td></td> <td>6.750</td> <td>26.26</td> <td>27.26</td> </tr> <tr> <td>1</td> <td>UBHO</td> <td>2.937</td> <td>6.500</td> <td>2.44</td> <td>29.70</td> </tr> <tr> <td>1</td> <td>NMDC</td> <td>3.250</td> <td>6.812</td> <td>31.02</td> <td>60.72</td> </tr> <tr> <td>1</td> <td>SPACER MONEL</td> <td>2.875</td> <td>6.500</td> <td>30.84</td> <td>91.56</td> </tr> <tr> <td>1</td> <td>CROSSOVER</td> <td>2.875</td> <td>6.375</td> <td>2.98</td> <td>94.54</td> </tr> <tr> <td>3</td> <td>6 1/2" DRILL COLLARS</td> <td>2.875</td> <td>6.500</td> <td>91.86</td> <td>186.40</td> </tr> <tr> <td>1</td> <td>CROSSOVER</td> <td>2.875</td> <td>6.500</td> <td>3.34</td> <td>189.74</td> </tr> <tr> <td colspan="5">Total Length:</td> <td>189.74</td> </tr> </tbody> </table>		Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	1	HUGHES T606X		8.758	1.00	1.00	1	1.5" FBH 7/8 5.0 8 1/2 STAB PDM N		6.750	26.26	27.26	1	UBHO	2.937	6.500	2.44	29.70	1	NMDC	3.250	6.812	31.02	60.72	1	SPACER MONEL	2.875	6.500	30.84	91.56	1	CROSSOVER	2.875	6.375	2.98	94.54	3	6 1/2" DRILL COLLARS	2.875	6.500	91.86	186.40	1	CROSSOVER	2.875	6.500	3.34	189.74	Total Length:					189.74	STRING LOADS On Btm Torque: 8,500 Off Btm Torque: 4,500 Str. Wt. Up: 90 Str. Wt. Down: 80 Str. Wt. Rot.: 85 Max Over Pull: 5		MUD PUMPS <table border="1"> <thead> <tr> <th></th> <th>#1</th> <th>#2</th> <th>#3</th> </tr> </thead> <tbody> <tr> <td>Pump</td> <td>DR</td> <td>DR</td> <td></td> </tr> <tr> <td>Type:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Liner ID:</td> <td>6.00</td> <td>6.00</td> <td></td> </tr> <tr> <td>SPM:</td> <td>70.00</td> <td>70.00</td> <td></td> </tr> <tr> <td>GPM:</td> <td>293.02</td> <td>293.02</td> <td></td> </tr> <tr> <td>SPR:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 SPM:</td> <td>0.00</td> <td>0.00</td> <td></td> </tr> <tr> <td>Pressure:</td> <td>0.00</td> <td>0.00</td> <td></td> </tr> <tr> <td>2 SPM:</td> <td>0.00</td> <td>0.00</td> <td></td> </tr> <tr> <td>Pressure:</td> <td>0.00</td> <td>0.00</td> <td></td> </tr> <tr> <td colspan="2">T GPM (gpm): 582</td> <td colspan="2">SPP (psi): 2,500</td> </tr> <tr> <td colspan="2">AV (DC):</td> <td colspan="2">AV (DP):</td> </tr> </tbody> </table>			#1	#2	#3	Pump	DR	DR		Type:				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): 582		SPP (psi): 2,500		AV (DC):		AV (DP):	
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2,048	11.30	269.60	2,041	9.28	-98.84	9.28	1.25																																																																																																														
2,143	12.00	267.50	2,134	8.78	-118.01	8.78	0.86																																																																																																														
2,238	12.40	267.60	2,227	7.92	-138.07	7.92	0.42																																																																																																														
2,333	12.10	267.90	2,320	7.13	-158.21	7.13	0.32																																																																																																														
2,429	11.70	266.00	2,413	6.08	-177.98	6.08	0.58																																																																																																														
2,524	11.30	265.50	2,507	4.68	-196.86	4.68	0.43																																																																																																														
2,619	10.60	263.50	2,600	2.96	-214.82	2.96	0.84																																																																																																														
OPERATION DETAILS <table border="1"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>HRS</th> <th>OP CODE</th> <th>PHASE</th> <th>CODE</th> <th>ACTIVITY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>06:00</td> <td>08:00</td> <td>2.00</td> <td>P</td> <td>CASSURF</td> <td>30</td> <td>TSTWCEQ</td> <td>TEST BOPE T/ 250 PSI / 5000 PSI HIGH. TESTED ANNULAR 250 PSI / 3500 PSI HIGH. PULLED TEST PLUG. LD TEST JT.</td> </tr> <tr> <td>08:00</td> <td>08:30</td> <td>0.50</td> <td>P</td> <td>CASSURF</td> <td>31</td> <td>TESTCAS</td> <td>TESTED CASING TO 1500 PSI FOR 30 MIN. RIG DOWN YELLOW JACKET TESTERS.</td> </tr> <tr> <td>08:30</td> <td>10:30</td> <td>2.00</td> <td>P</td> <td>CASSURF</td> <td>29</td> <td>NDBOPE</td> <td>RU BELL NIPPLE AND FLOW LINE.</td> </tr> <tr> <td>10:30</td> <td>11:00</td> <td>0.50</td> <td>P</td> <td>CASSURF</td> <td>12</td> <td>RIGSVC</td> <td>RIG SERVICE.</td> </tr> <tr> <td>11:00</td> <td>13:00</td> <td>2.00</td> <td>P</td> <td>CASSURF</td> <td>17</td> <td>CUTSLIP</td> <td>SLIP & CUT DRILL LINE.</td> </tr> <tr> <td>13:00</td> <td>15:00</td> <td>2.00</td> <td>P</td> <td>CASSURF</td> <td>14</td> <td>PULDSTR</td> <td>P/UP BHA.</td> </tr> <tr> <td>15:00</td> <td>15:30</td> <td>0.50</td> <td>P</td> <td>CASSURF</td> <td>13</td> <td>TRIP</td> <td>TIH TAG @ 939'.</td> </tr> <tr> <td>15:30</td> <td>16:30</td> <td>1.00</td> <td>P</td> <td>CASSURF</td> <td>32</td> <td>DRLFLOAT</td> <td>DRILL SHOE TRACK F/ 939' TO 984'.</td> </tr> <tr> <td>16:30</td> <td>06:00</td> <td>13.50</td> <td>P</td> <td>DRLPRD</td> <td>08</td> <td>DRLDIR</td> <td>DRILL DIRECTIONAL F/ 984' TO 3,137'. ON 09/24/2013. SPUD WELL @ 16:30 HRS.</td> </tr> </tbody> </table>								FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	06:00	08:00	2.00	P	CASSURF	30	TSTWCEQ	TEST BOPE T/ 250 PSI / 5000 PSI HIGH. TESTED ANNULAR 250 PSI / 3500 PSI HIGH. PULLED TEST PLUG. LD TEST JT.	08:00	08:30	0.50	P	CASSURF	31	TESTCAS	TESTED CASING TO 1500 PSI FOR 30 MIN. RIG DOWN YELLOW JACKET TESTERS.	08:30	10:30	2.00	P	CASSURF	29	NDBOPE	RU BELL NIPPLE AND FLOW LINE.	10:30	11:00	0.50	P	CASSURF	12	RIGSVC	RIG SERVICE.	11:00	13:00	2.00	P	CASSURF	17	CUTSLIP	SLIP & CUT DRILL LINE.	13:00	15:00	2.00	P	CASSURF	14	PULDSTR	P/UP BHA.	15:00	15:30	0.50	P	CASSURF	13	TRIP	TIH TAG @ 939'.	15:30	16:30	1.00	P	CASSURF	32	DRLFLOAT	DRILL SHOE TRACK F/ 939' TO 984'.	16:30	06:00	13.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL F/ 984' TO 3,137'. ON 09/24/2013. SPUD WELL @ 16:30 HRS.																														
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 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOHN LAYTON / KENNETH SWILLEY Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 003 Report Date: 09/26/2013 Spud Date: 09/24/2013 Release Date: DFS: 2.00 DOL: 3 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 6,087.01 / 6,030.68 Progress (ft): 2,950.01 ROP: 2,950.0 / 23.50 = 125.53 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 25 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>160182/49551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>105,580</td> <td>0</td> <td>0</td> <td>105,580</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>504,734</td> <td>0</td> <td>0</td> <td>504,734</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160182/49551				Day Cost(\$):	105,580	0	0	105,580	Cum Cost(\$)	504,734	0	0	504,734	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
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Cum Cost(\$)	504,734	0	0	504,734																																
AFE(\$):	0	0	0	0																																
Current Activity: DRILLING @ 6,087' PTB: INC. .6" AZM. 269.3° TVD 6,014' 2.3' ABOVE .6' RIGHT. 24 Hr Summary: DRILL DIRECTIONAL TO 6,087'. 24 Hr Forecast: DRILL DIRECTIONAL TO KOP. TRIP FOR CURVE ASSEMBLY. BUILD CURVE.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 3:51 Oil Cnt (%): 68 Location: PIT H2O Cnt (%): 25 Pit Temp (°F): 124 Sand Cnt (%): 0.00 Depth (ft): 4,852.01 MBT (lbm/bbl): 0.0 Density (ppg): 8.80 pH: 0.0 FV (s/qt): 46 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 11/14/19 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 504.0 Cake (32nd"): 2.00 LGS (%): 4.10 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.0 ECD (ppg): 9.2 OWR: 72.5 / 27.5		D M Cost(\$): \$13,844.54 C M Cost(\$): \$14,744.54 Mud Additives LIME 70 DRILL TREAT 8 EZ MUL 3 CEDAR FIBER 14 ENGINEERING 1 BARABLOK 30 INVERMUL 3 WALNUT MEDIUM 20 CALCIUM CHLORIDE PO 112 GELTONE V 20		Bit# 1 S/N 7142220 Size (in) 8.75 Mfg HUGHES IADC Type Model # T606X Jets 6X13 Depth In (ft) 984 Depth Out (ft) Bit Rotations 50/65 On Btm Hrs Cum 37.00 Footage Cum (ft) 7,256 ROP Cum 196.1 WOB mm/mx (kip) 15 / 35 RPM rot/bit 50 / 65 Bit HP 1.32 HSI 1.70 PSI Drop (psi) 350.20 Jet Vel (ft/s) 206.27 Imp Force 491.57		<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>984.00 /</td> <td>984.00</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	9.63	984.00 /	984.00	5.50	15,170.03 /	7,015.01	5.50	15,170.03 /	7,015.01																	
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MUD LOGGING				INVENTORY																																
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Lag Strokes: (min) Lag Time: (min)				<table border="1"> <thead> <tr> <th>Item</th> <th>Inv</th> </tr> </thead> <tbody> <tr> <td>DIESEL</td> <td>8,152</td> </tr> <tr> <td>MUD DIESEL</td> <td>2,473</td> </tr> </tbody> </table>				Item	Inv	DIESEL	8,152	MUD DIESEL	2,473																							
Item	Inv																																			
DIESEL	8,152																																			
MUD DIESEL	2,473																																			
BHA # 1				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 8,500	#1																													
1	HUGHES T606X		8.758	1.00	1.00	Off Btm Torque: 4,500	#2																													
1	1.5" FBH 7/8 5.0 8 1/2 STAB PDM M		6.750	26.26	27.26	Str. Wt. Up: 130	#3																													
	UBHO	2.937	6.500	2.44	29.70	Str. Wt. Down: 120																														
1	NMDC	3.250	6.812	31.02	60.72	Str. Wt. Rot.: 125																														
1	SPACER MONEL	2.875	6.500	30.84	91.56	Max Over Pull: 5																														
1	CROSSOVER	2.875	6.375	2.98	94.54																															
3	6 1/2" DRILL COLLARS	2.875	6.500	91.86	186.40																															
1	CROSSOVER	2.875	6.500	3.34	189.74																															
Total Length: 189.74						BHA PROPERTIES																														
						BHA Hrs: 24																														
						Jar Hrs:																														
						Cum String Hours: 51																														
						Weight B Jars (kip):																														
						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): 500 SPP (psi): 2,000																														
						AV (DC): AV (DP):																														
SURVEYS																																				
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																													
4,997	8.80	269.40	4,945	1.74	-606.96	1.74	0.60																													
5,093	8.80	269.80	5,039	1.64	-621.64	1.64	0.06																													
5,188	8.10	270.90	5,133	1.72	-635.60	1.72	0.76																													
5,283	6.30	270.40	5,228	1.86	-647.51	1.86	1.90																													
5,378	5.30	270.20	5,322	1.91	-657.11	1.91	1.05																													
5,473	3.40	271.20	5,417	1.98	-664.31	1.98	2.00																													
5,568	1.90	247.10	5,512	1.43	-668.58	1.43	1.93																													
5,663	1.00	240.60	5,607	0.41	-670.75	0.41	0.96																													
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	15:30	9.50	P	DRLPRD	08	DRLDIR	DRILL DIRECTIONAL FROM 3,137' TO 4,563'.																													
15:30	16:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																													
16:00	06:00	14.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 4,563' TO 6,087'.																													
Daily Operations Comments																																				
PDM: 1.5" FBH 7/8 6.4 W/ 8 1/2" STAB. BTB 5.08" BTG 32" BTS 43" RPG .29. WORKING OFF PLAN #3. NO MUD LOSS.																																				

Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH		Report Number: 004 Report Date: 09/27/2013 Spud Date: 09/24/2013 Release Date: DFS: 3.00 DOL: 4 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: JOHN LAYTON / KENNETH SWILLEY Engineer/Manager: BRENT BAKER / EVANS / GAYDOS			

Depth md/tvd (ft): 6,860.01 / 6,796.58 Progress (ft): 773.00 ROP: 773.0 / 12.50 = 61.84 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03	Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 24 Total Man Hours: 0.00	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> <tr> <td>AFE #:</td> <td>160182/49551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>141,141</td> <td>0</td> <td>0</td> <td>141,141</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>645,875</td> <td>0</td> <td>0</td> <td>645,875</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>		Drig	Comp	Fac	Total	AFE #:	160182/49551				Day Cost(\$):	141,141	0	0	141,141	Cum Cost(\$)	645,875	0	0	645,875	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																							
AFE #:	160182/49551																										
Day Cost(\$):	141,141	0	0	141,141																							
Cum Cost(\$)	645,875	0	0	645,875																							
AFE(\$):	0	0	0	0																							

Current Activity: TRIPPING OUT DUE TO POSSIBLE MUD MOTOR FAILURE. BUILD CURVE TO @ 6,860' PTB: INC. 27.6° AZM. 179.9°
24 Hr Summary: DRILL DIRECTIONAL TO KOP. TRIP FOR CURVE ASSEMBLY. BUILD CURVE TO 6,860'. POOH.
24 Hr Forecast: BUILD CURVE POOH. CHANGE OUT MUD MOTOR. TIH. BUILD CURVE.

MUD PROPERTIES			MUD MATERIALS			BIT RECORD			CASING		
Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART			D M Cost(\$): \$11,567.29 C M Cost(\$): \$26,311.83			Bit# 1 S/N 7142220 Size (in) 8.75 Mfg HUGHES IADC Type Model # T606X			Size(in) 9.63 MD(ft)/TVD(ft) 984.00 / 984.00 5.50 15,170.03 / 7,015.01 5.50 15,170.03 / 7,015.01		
Time: 3:51 Oil Cnt (%): 74 Location: PIT H2O Cnt (%): 26 Pit Temp ("F): 120 Sand Cnt (%): 0.00 Depth (ft): 6,622.01 MBT (lbm/bbl): 0.0 Density (ppg): 8.90 pH: 0.0 FV (s/qt): 46 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 11/14/19 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP ("F): 250 ES (mV): 505.0 Cake (32nd"): 2.00 LGS (%): 3.40 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.0 ECD (ppg): 9.2 OWR: 73.9 / 26.1			Mud Additives Used BARITE 41 57 GELTONE V 12 CALCIUM CHLORIDE PO 112 DRILL TREAT 10 FUEL SURCHARGE 350 BARABLOK 20 OIL ABSORBENT CLAY 2 TRANSPORTATION 417 PALLETS 16 LIME 30 EZ MUL 1 SHRINK WRAP 16 RIG WASH 1 ENGINEERING 1 more...			Depth In (ft) 984 Depth Out (ft) 6,622 Bit Rotations 50/70 On Btm Hrs Cum 4.50 Footage Cum (ft) 535 ROP Cum 187.7 WOB mm/mx (kip) 10 / 25 RPM rot/bit 50 / 70 Bit HP 1.99 HSI 2.56 PSI Drop (psi) 453.86 Jet Vel (ft/s) 240.09 Imp Force 637.06			PY5548 SMITH FH121 3X22 6,622 20/20 8.00 238 29.8 20 / 35 20 / 20 1.11 1.00 190.55 155.57 383.00		
INVENTORY											
Item DIESEL MUD DIESEL										Inv 6,539 7,141	
SOLIDS CONTROL											
Skr		Deck 1 Screens		Deck 2 Screens							
1		50/50/50/50									
2		50/50/50/50									
3		50/50/50/50									

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

BHA # 2					STRING LOADS		MUD PUMPS				
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	8,500				
1	SMITH FH121		8.750	1.00	1.00	Off Btm Torque:	3,500				
1	NOV 2.12" 4/5 7.0 SLICK PDM		6.750	26.32	27.32	Str. Wt. Up:	135				
1	UBHO	2.875	6.750	2.44	29.76	Str. Wt. Down:	125				
1	MWD	3.250	6.875	31.02	60.78	Str. Wt. Rot.:	130				
1	NM FLEX DC	2.937	6.500	30.89	91.67	Max Over Pull:	5				
Total Length:						91.67					
BHA PROPERTIES											
BHA Hrs:						5					
Jar Hrs:											
Cum String Hours:						55					
Weight B Jars (kip):											
								T GPM (gpm): 582 AV (DC):		SPP (psi): 2,500 AV (DP):	

SURVEYS								
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	
6,518	0.60	132.00	6,462	-7.31	-671.72	-7.31	0.32	
6,579	0.80	104.80	6,523	-7.64	-671.07	-7.64	0.63	
6,611	0.80	106.20	6,555	-7.76	-670.64	-7.76	0.06	
6,643	3.00	167.00	6,587	-8.63	-670.24	-8.63	8.44	
6,674	6.90	176.20	6,618	-11.28	-669.93	-11.28	12.80	
6,706	10.60	180.10	6,649	-16.15	-669.81	-16.15	11.70	
6,738	14.50	182.00	6,680	-23.10	-669.95	-23.10	12.25	
6,769	18.20	182.30	6,710	-31.82	-670.28	-31.82	11.94	

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	10:30	4.50	P	DRLPRD	08	DRLDIR	DRILL 6,087' TO 6,622'.
10:30	15:00	4.50	P	DRLPRD	13	TRIP	POOH LD BHA.
15:00	16:30	1.50	P	DRLPRD	13	TRIP	PU CURVE ASSY. TIH TO 1,134'. TEST MWD TOOL.
16:30	17:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.
17:00	21:00	4.00	P	DRLPRD	13	TRIP	TIH TO 6,622'.
21:00	05:00	8.00	P	DRLPRD	09	DRLCRV	BUILD CURVE 6,622' TO 6,860'.
05:00	05:30	0.50	P	DRLPRD	15	CIRC	PUMP PRESSURE INCREASED BY 1700 PSI. WHILE CIRCULATING OFF BOTTOM. WORKED TO LOWER CIRCULATING PRESSURE WITH OUT SUCCESS.
05:30	06:00	0.50	P	DRLPRD	13	TRIP	POOH. DUE TO POSSIBLE MUD MOTOR FAILURE.

Daily Operations Comments
 PDM: 2.12" FBH 4/5 7.0 SLICK BTB 3.37" , BTS 43' RPG. 52 WORKING OFF PLAN #3. NO MUD LOSS.
 WPS 279537

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4417HH/OH

Report Number:

005

Country:

USA

State/OCSG

TEXAS

Field/Permit#:

WOLF CAMP EAST

Supervisors:

JOHN LAYTON / KENNETH SWILLEY

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

09/28/2013

Spud Date:

09/24/2013

Release Date:

DFS: 4.00

DOL: 5

AFE Days: 10

Last BOP T.:

09/24/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

7,148.01 / 6,995.09

Progress (ft):

288.00

ROP:

288.0 / 12.00 = 24.00

Proposed TD (ft):

15,130.00

Next Csg Point (ft):

15,170.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

Ground Level (ft):

2,702.0

POB:

23

Total Man Hours:

0.00

AFE #:

160182/49551

Day Cost(\$):

70,244

Cum Cost(\$):

716,119

AFE(\$):

0

Drig

Comp

Fac

Total

0

0

0

70,244

0

0

0

716,119

0

0

0

0

Current Activity:

BUILD CURVE TO @ 7,148' PTB: INC. 63.8° AZM. 177.6° TVD 6,990' 1.8' AHEAD .6' RIGHT.

24 Hr Summary:

TRIP FOR MUD MOTOR. TIH. BUILD CURVE TO 7,148'.

24 Hr Forecast:

BUILD CURVE POOH. P/U LATERAL ASSEMBLY TIH. DRILL LATERAL.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

3:51

Location:

PIT

Pit Temp (°F):

120

Depth (ft):

6,870.01

Density (ppg):

8.90

FV (s/qt):

53

PV (cp):

15

YP (lb/100ft²):

14

Gels (l):

11/14/19

WL (cc/30min):

10.00

HTHP (°F):

250

Cake (32nd"):

2.00

Solids (lbm/bbl):

0

ECD (ppg):

9.2

MUD MATERIALS

D M Cost(\$):

\$9,282.69

C M Cost(\$):

\$35,594.52

Mud Additives

Used

CALCIUM CHLORIDE PO

56

BARITE 41

83

CEDAR FIBER

15

WALNUT MEDIUM

21

BARABLOK

5

DRILL TREAT

5

FUEL SURCHARGE

350

SHRINK WRAP

16

TRANSPORTATION

45

LIME

17

GELTONE V

16

PALLETS

1

RIG WASH

1

ENGINEERING

more...

BIT RECORD

Bit#

2

S/N

PY5548

Size (in)

8.75

Mfg

SMITH

IADC Type

FH121

Model #

FH121

Jets

3X22

Depth In (ft)

6,622

Depth Out (ft)

6,860

Bit Rotations

0/0

On Btm Hrs Cum

12.00

Footage Cum (ft)

390

ROP Cum

29.8

WOB mm/mx (kip)

0 / 0

RPM rot/bit

0 / 0

Bit HP

0.00

HSI

0.00

PSI Drop (psi)

0.00

Jet Vel (ft/s)

0.00

Imp Force

0.00

Grading

I O D L B G O R

Bit # 2

1 0 0 1 DMF

Bit # 2 RR

CASING

Size(in)

9.63

MD(ft)/TVD(ft)

984.00 / 15,170.03 / 15,170.03

Fit LOT(ppg)

984.00 / 7,015.01 / 7,015.01

INVENTORY

Item

DIESEL

Inv

13,000

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

222 @

Conn Gas (units)

312 @

Form:

BG Gas (units):

205

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 3

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH FH121

8.750

1.00

1.00

1

NOV 2.12" 4/5 7.0 SLICK PDM

6.750

26.33

27.33

1

UBHO

2.875

6.750

2.44

29.77

1

MWD

3.250

6.875

31.02

60.79

1

NM FLEX DC

2.937

6.500

30.89

91.68

Total Length:

91.68

STRING LOADS

On Btm Torque:

0

Off Btm Torque:

0

Str. Wt. Up:

145

Str. Wt. Down:

135

Str. Wt. Rot.:

140

Max Over Pull:

5

BHA PROPERTIES

BHA Hrs:

0

Jar Hrs:

Cum String Hours:

8

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

DR

Liner ID:

6.00

SPM:

65.00

GPM:

272.09

SPR:

1 SPM:

0.00

Pressure:

0.00

2 SPM:

0.00

Pressure:

0.00

T GPM (gpm):

540

SPP (psi):

2,000

AV (DC):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,928

35.80

180.20

6,852

-102.42

-671.36

-102.42

11.89

6,959

39.70

180.80

6,876

-121.39

-671.53

-121.39

12.64

6,991

42.50

180.70

6,901

-142.42

-671.80

-142.42

8.75

7,023

45.50

180.50

6,924

-164.65

-672.03

-164.65

9.39

7,054

49.70

179.90

6,944

-187.54

-672.11

-187.54

13.62

7,085

55.20

178.90

6,963

-212.10

-671.85

-212.10

17.92

7,117

59.90

177.60

6,980

-239.08

-671.01

-239.08

15.08

7,148

63.80

177.60

6,995

-266.39

-669.87

-266.39

12.58

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

11:00

5.00

P

DRLPRD

13

TRIP

POOH TO BHA.

11:00

12:00

1.00

P

DRLPRD

13

TRIP

L/D DIR. TOOLS

12:00

12:30

0.50

P

DRLPRD

42

OTHER

CLEAN RIG FLOOR.

12:30

13:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

13:00

14:00

1.00

P

DRLPRD

09

DRLCRV

CHANGE OUT MUD MOTOR, P/U DIR. TOOLS.

14:00

18:00

4.00

P

DRLPRD

13

TRIP

TIH. TO 6,860'.

18:00

06:00

12.00

P

DRLPRD

09

DRLCRV

BUILD CURVE 6,860' TO 7,148'.

Daily Operations Comments

PDM: 2.12" FBH 4/5 7.0 SLICK BTB 3.37', BTS 43' RPG .52 WORKING OFF PLAN #3.

NO MUD LOSS.

WPS 290950

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4417HH/OH

Report Number:

006

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / KENNETH SWILLEY

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

09/29/2013

Spud Date:

09/24/2013

Release Date:

DFS: 5.00

DOL: 6

AFE Days: 10

Last BOP T.:

09/24/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

8,059.02 / 7,029.81

Progress (ft):

911.00

ROP:

911.0 / 12.50 = 72.88

Proposed TD (ft):

15,130.00

Next Csg Point (ft):

15,170.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

Ground Level (ft):

2,702.0

POB:

25

Total Man Hours:

0.00

AFE #:

160182/49551

Day Cost(\$):

100.063

Cum Cost(\$):

816,182

AFE(\$):

0

Drig

Comp

Fac

Total

9.63

984.00 /

984.00

5.50

15,170.03 /

7,015.01

5.50

15,170.03 /

7,015.01

Current Activity:

DRILL LATERAL @ 8,059'. PROJECTED TO BIT INC 93.0° - AZM 182.6° - TVD 7,035' - BELOW 2.2' - LEFT - 6.6'. TOTAL LATERAL DRILLED 757'.

24 Hr Summary:

BUILD CURVE POOH. P/U LATERAL ASSEMBLY TIH. DRILL LATERAL.

24 Hr Forecast:

DRILL LATERAL TO 8,059'.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

3:51

Location:

PIT

Pit Temp (°F):

150

Depth (ft):

7,318.01

Density (ppg):

8.90

FV (s/qt):

50

PV (cp):

15

YP (lb/100ft²):

15

Gels (l):

12/15/19

WL (cc/30min):

10.00

HTHP (°F):

250

Cake (32nd):

2.00

Solids (lbm/bbl):

0

ECD (ppg):

9.2

MUD MATERIALS

D M Cost(\$):

\$14,781.29

C M Cost(\$):

\$50,375.81

Mud Additives

Used

ENGINEERING

1

EZ MUL

1

BARITE 41

68

GELTONE V

7

DRILL TREAT

6

CALCIUM CHLORIDE PO

56

LIME

15

BARABLOK

10

MUD RENTAL

4,041

BIT RECORD

Bit#

2 RR

S/N

PY5548

Size (in)

8.75

Mfg

SMITH

IADC Type

FH121

Model #

T606X

Jets

3X22

Depth In (ft)

6,860

Depth Out (ft)

7,318

Bit Rotations

20/20

On Btm Hrs Cum

3.00

Footage Cum (ft)

170

ROP Cum

37.3

WOB mm/mx (kip)

20 / 35

RPM rot/bit

20 / 20

Bit HP

1.12

HSI

1.01

PSI Drop (psi)

192.71

Jet Vel (ft/s)

155.57

Imp Force

387.35

Grading

I O D L B G O R

Bit # 2 RR

4 7 BT A 1 I BT BHA

CASING

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

9.63

984.00 /

984.00

5.50

15,170.03 /

7,015.01

5.50

15,170.03 /

7,015.01

INVENTORY

Item

Inv

DIESEL

11,287

MUD DIESEL

9,327

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

315 @

Conn Gas (units):

665 @

Form:

BG Gas (units):

486

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 4

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X PDC BIT

8.750

1.00

1.00

1

6 3/4" 1.83" 7/8 6.4 .31 RPG FBH M

1.750

6.750

26.34

27.34

1

UBHO SUB

2.820

6.750

2.44

29.78

1

NMDC

3.250

6.820

31.02

60.80

1

NM FLEX DC

2.820

6.690

30.84

91.64

105

5" DP

4.276

5.000

3,309.69

3,401.33

1

DRILLING AGITATOR

2.500

6.750

12.98

3,414.31

1

SHOCK SUB

2.250

6.875

10.75

3,425.06

Total Length:

3,425.06

STRING LOADS

On Btm Torque:

Off Btm Torque:

Str. Wt. Up:

165

Str. Wt. Down:

145

Str. Wt. Rot.:

150

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):

540

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)

7,244

75.40

180.10

7,029

-356.18

-668.51

-356.18

12.90

7,275

80.40

179.70

7,035

-386.49

-668.46

-386.49

16.18

7,299

84.20

179.30

7,038

-410.26

-668.25

-410.26

15.92

7,394

90.70

178.10

7,042

-505.09

-666.10

-505.09

6.96

7,489

90.30

177.90

7,042

-600.03

-662.78

-600.03

0.47

7,584

88.20

177.70

7,043

-694.95

-659.14

-694.95

2.22

7,679

91.10

179.50

7,043

-789.90

-656.82

-789.90

3.59

7,774

92.20

180.60

7,041

-884.86

-656.90

-884.86

1.64

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

09:00

3.00

P

DRLPRD

09

DRLCRV

BUILD CURVE 7,148' TO 7,318'.

09:00

09:30

0.50

P

DRLPRD

15

CIRC

PUMP SLUG.

09:30

13:00

3.50

P

DRLPRD

13

TRIP

POOH. TO BHA.

13:00

14:00

1.00

P

DRLPRD

14

PULDSTR

LD CURVE ASSEMBLY.

14:00

14:30

0.50

P

DRLPRD

42

OTHER

CLEAN RIG FLOOR.

14:30

15:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

15:00

20:00

5.00

P

DRLPRD

13

TRIP

PU LATERAL ASSEMBLY. TIH TO 2,478', SHALLOW TEST MWD, P.U. AGGITATOR AND SH. SUB. TIH.

20:00

20:30

0.50

P

DRLPRD

15

CIRC

CIRC. PUMP HIGH VIS SWEEP.

20:30

06:00

9.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 7,318' TO 8,059'.


Daily Operations Comments


PDM: 1.83" FBH 7/8 6.4 SLICK BTB 5.04" BTG 32" BTS 43" RPG .31 WORKING OFF PLAN #3.

MUD LOSS. 247 BBLs, 27 BBLs PER. HOUR.


PUMPING LCM SWEEPS TO HELP LOWER MUD LOSSES.


WPS 289971


 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCGS: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: JOHN LAYTON / KENNETH SWILLEY Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 007 Report Date: 09/30/2013 Spud Date: 09/24/2013 Release Date: DFS: 6.00 DOL: 7 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																																																																																							
Depth md/tvd (ft): 10,955.02 / 7,013.58 Progress (ft): 2,896.01 ROP: 2,896.0 / 23.50 = 123.23 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 23 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>160182/49551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>50,609</td> <td>0</td> <td>0</td> <td>50,609</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>866,791</td> <td>0</td> <td>0</td> <td>866,791</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160182/49551				Day Cost(\$):	50,609	0	0	50,609	Cum Cost(\$)	866,791	0	0	866,791	AFE(\$):	0	0	0	0																																																											
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Cum Cost(\$)	866,791	0	0	866,791																																																																																											
AFE(\$):	0	0	0	0																																																																																											
Current Activity: DRILL LATERAL @ 10,955'. PROJECTED TO BIT INC 91.0° - AZM 180.6° - TVD 7,014' - BELOW 0.8' - LEFT - 3.0'. TOTAL LATERAL DRILLED 3,637'. 24 Hr Summary: DRILL LATERAL TO 10,955'. 24 Hr Forecast: DRILL LATERAL.																																																																																															
MUD PROPERTIES Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 3:51 Oil Cnt (%): 74 Location: PIT H2O Cnt (%): 26 Pit Temp (°F): 135 Sand Cnt (%): 0.00 Depth (ft): 9,543.02 MBT (lbm/bbl): 0.0 Density (ppg): 9.00 pH: 0.0 FV (s/qt): 50 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 16 Chloride (ppm): 0 Gels (l): 13/15/20 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 506.0 Cake (32nd"): 2.00 LGS (%): 0.40 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.3 ECD (ppg): 9.2 OWR: 73.9 / 26.1		MUD MATERIALS D M Cost(\$): \$12,691.51 C M Cost(\$): \$63,067.32 Mud Additives RIG WASH 2 GELTONE V 20 EZ MUL 2 CEDAR FIBER 23 LIME 35 OIL ABSORBENT CLAY 16 WALNUT MEDIUM 36 ENGINEERING 1 MICA FINE 12 CALCIUM CHLORIDE PO 112 DRILL TREAT 5 BARABLOK 15 INVERMUL 2 MICA COARSE 12		BIT RECORD Bit# 7145802 S/N 8.75 Size (in) Hughes Mfg IADC Type T606X Model # Jets 6X14 Depth In (ft) 7,318 Depth Out (ft) Bit Rotations 50/70 On Btm Hrs Cum 33.00 Footage Cum (ft) 3,637 ROP Cum 110.2 WOB mm/mx (kip) 25 / 40 RPM rot/bit 50 / 70 Bit HP 1.76 HSI 1.95 PSI Drop (psi) 345.10 Jet Vel (ft/s) 207.02 Imp Force 561.79		CASING <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>984.00 /</td> <td>984.00</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit LOT(ppg)	9.63	984.00 /	984.00	5.50	15,170.03 /	7,015.01	5.50	15,170.03 /	7,015.01																																																																												
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MUD LOGGING Trip Gas (units): 315 @ Conn Gas (units) 665 @ Form:		BG Gas (units): 486 Pore Pressure: (%) Surf to Surf: Lag Strokes: (min) Lag Time: (min)		Grading I O D L B G O R Bit # Bit #		INVENTORY <table border="1"> <thead> <tr> <th>Item</th> <th>Inv</th> </tr> </thead> <tbody> <tr> <td>DIESEL</td> <td>9,399</td> </tr> <tr> <td>MUD DIESEL</td> <td>2,733</td> </tr> </tbody> </table>		Item	Inv	DIESEL	9,399	MUD DIESEL	2,733																																																																																		
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BHA # 4 <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>HUGHES T606X PDC BIT</td> <td></td> <td>8.750</td> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>1</td> <td>6 3/4" 1.83" 7/8 6.4 .31 RPG FBH M</td> <td>1.750</td> <td>6.750</td> <td>26.34</td> <td>27.34</td> </tr> <tr> <td>1</td> <td>UBHO SUB</td> <td>2.820</td> <td>6.750</td> <td>2.44</td> <td>29.78</td> </tr> <tr> <td>1</td> <td>NMDC</td> <td>3.250</td> <td>6.820</td> <td>31.02</td> <td>60.80</td> </tr> <tr> <td>1</td> <td>NM FLEX DC</td> <td>2.820</td> <td>6.690</td> <td>30.84</td> <td>91.64</td> </tr> <tr> <td>105</td> <td>5" DP</td> <td>4.276</td> <td>5.000</td> <td>3,309.69</td> <td>3,401.33</td> </tr> <tr> <td>1</td> <td>DRILLING AGITATOR</td> <td>2.500</td> <td>6.750</td> <td>12.98</td> <td>3,414.31</td> </tr> <tr> <td>1</td> <td>SHOCK SUB</td> <td>2.250</td> <td>6.875</td> <td>10.75</td> <td>3,425.06</td> </tr> </tbody> </table> Total Length: 3,425.06		Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	1	HUGHES T606X PDC BIT		8.750	1.00	1.00	1	6 3/4" 1.83" 7/8 6.4 .31 RPG FBH M	1.750	6.750	26.34	27.34	1	UBHO SUB	2.820	6.750	2.44	29.78	1	NMDC	3.250	6.820	31.02	60.80	1	NM FLEX DC	2.820	6.690	30.84	91.64	105	5" DP	4.276	5.000	3,309.69	3,401.33	1	DRILLING AGITATOR	2.500	6.750	12.98	3,414.31	1	SHOCK SUB	2.250	6.875	10.75	3,425.06	STRING LOADS On Btm Torque: 16,500 Off Btm Torque: 6,500 Str. Wt. Up: 220 Str. Wt. Down: 150 Str. Wt. Rot.: 175 Max Over Pull: 10		MUD PUMPS <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>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		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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Daily Operations Comments PDM: 1.83" FBH 7/8 6.4 SLICK BTB 5.04" BTG 32" BTS 43" RPG .31 WORKING OFF PLAN #3. NO MUD LOSS. PUMPING LCM SWEEPS TO PREVENT MUD LOSSES. WPS 286325																																																																																															

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOHN LAYTON / KENNETH SWILLEY Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 008 Report Date: 10/01/2013 Spud Date: 09/24/2013 Release Date: DFS: 7.00 DOL: 8 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 13,704.03 / 9,635.49 Progress (ft): 2,749.01 ROP: 2,749.0 / 22.00 = 124.95 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 25 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>160182/49551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>82,749</td> <td>0</td> <td>0</td> <td>82,749</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>949,540</td> <td>0</td> <td>0</td> <td>949,540</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160182/49551				Day Cost(\$):	82,749	0	0	82,749	Cum Cost(\$)	949,540	0	0	949,540	AFE(\$):	0	0	0	0
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Current Activity: DRILL LATERAL @ 13,704'. PROJECTED TO BIT INC 90.2° - AZM 180.6° - TVD 6,993' - ABOVE 6.1' - RIGHT - 3.2'. TOTAL LATERAL DRILLED 6,386'. 24 Hr Summary: DRILL LATERAL TO 13,704'. 24 Hr Forecast: DRILL LATERAL TO TD @ 15,170' , CIRC & CONDT MUD ,POOH, LAY DOWN DIRECTIONAL TOOLS.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 3:51 Oil Cnt (%): 73 Location: PIT H2O Cnt (%): 28 Pit Temp ("F): 145 Sand Cnt (%): 0.00 Depth (ft): 12,555.03 MBT (lbm/bbl): 0.0 Density (ppg): 9.10 pH: 0.0 FV (s/qt): 45 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 12/16/20 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP ("F): 250 ES (mV): 505.0 Cake (32nd"): 2.00 LGS (%): 4.00 Solids (lbm/bbl): 0 Ex Lime (ppb): 4.3 ECD (ppg): 9.4 OWR: 72.5 / 27.5		D M Cost(\$): \$8,752.14 C M Cost(\$): \$71,819.46 Mud Additives Used INVERMUL 2 EZ MUL 2 DRILL TREAT 2 RIG WASH 1 BARABLOK 10 GELTONE V 16 CALCIUM CHLORIDE PO 56 ENGINEERING 15 CEDAR FIBER 25 LIME 12 WALNUT MEDIUM 12		Bit# 4 S/N 7145802 Size (in) 8.75 Mfg Hughes IADC Type T606X Model # Jets 6X14 Depth In (ft) 7,318 Depth Out (ft) Bit Rotations 50/70 On Btm Hrs Cum 56.50 Footage Cum (ft) 6,386 ROP Cum 113.0 WOB mm/mx (kip) 25 / 45 RPM rot/bit 50 / 70 Bit HP 1.43 HSI 1.59 PSI Drop (psi) 303.69 Jet Vel (ft/s) 192.08 Imp Force 494.38		Size(in) 9.63 MD(ft)/TVD(ft) 984.00 / 984.00 5.50 15,170.03 / 7,015.01 5.50 15,170.03 / 7,015.01																														
INVENTORY																																				
Item						Inv																														
DIESEL						7,075																														
MUD DIESEL						3,544																														
SOLIDS CONTROL																																				
Skr		Deck 1 Screens		Deck 2 Screens																																
1 50/50/50/50																																				
2 50/50/50/50																																				
3 50/50/50/50																																				
MUD LOGGING																																				
Trip Gas (units): @		BG Gas (units): 1,376		Surf to Surf:																																
Conn Gas (units) 1,473 @		Pore Pressure: (%)		Lag Strokes: (min)																																
Form:				Lag Time:																																
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1	HUGHES T606X PDC BIT		8.750	1.00	1.00	Off Btm Torque: 7,500	#2																													
1	6.3/4" 1.83° 7/8 6.4 .31 RPG FBH M	1.750	6.750	26.34	27.34	Str. Wt. Up: 240	#3																													
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BHA Hrs: 22																																				
Jar Hrs:																																				
Cum String Hours: 55																																				
Weight B Jars (kip):																																				
						T GPM (gpm): 540 SPP (psi): 3,800 AV (DC): AV (DP):																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
10,055		91.00		181.50		9,647																														
10,149		91.30		181.20		9,645																														
10,244		90.70		179.00		9,644																														
10,339		90.60		178.90		9,642																														
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						-3,448.22																														
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OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	16:30	10.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 10,955' TO 12,378'.																													
16:30	17:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																													
17:00	04:30	11.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 12,378' TO 13,704'.																													
04:30	05:00	0.50	N	DRLPRD	43	RRTOP	TROUBLE SHOOT ELECT. PROBLEM ON TOP DRIVE.																													
05:00	06:00	1.00	N	DRLPRD	43	RRTOP	REPLACE ENCODER ON TOP DRIVE.																													
Daily Operations Comments																																				
PDM: 1.83° FBH 7/8 6.4 SLICK BTB 5.04° BTG 32° BTS 43° RPG .31 WORKING OFF PLAN #3. NO MUD LOSS.																																				
WPS 282947																																				

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH				Report Number: 009									
				Country: USA				Report Date: 10/02/2013									
				State/OCSG: TEXAS				Spud Date: 09/24/2013									
				Field/Permit#: WOLF CAMP EAST				Release Date:									
				Supervisors: JOHN LAYTON / KENNETH SWILLEY				DFS: 8.00 DOL: 9 AFE Days: 10									
				Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Last BOP T.: 09/24/2013									
								Safety & Environmental Incident: No									
Depth md/tvd (ft): 15,147.03 / 9,623.59				Rig: NORAM/21				Drig				Comp		Fac		Total	
Progress (ft): 1,443.00				Rig Phone: 713-997-1265				AFE #:				160182/49551					
ROP: 1,443.0 / 17.50 = 82.46				RKB (ft):				Day Cost(\$):				51,342		0		51,342	
Proposed TD (ft): 15,130.00				Ground Level (ft): 2,702.0				Cum Cost(\$):				1,000,882		0		1,000,882	
Next Csg Point (ft): 15,170.03				POB: 25 Total Man Hours: 0.00				AFE(\$):				0		0		0	
Current Activity: POOH. LAYING DOWN DRILL PIPE. BIT PROJ. DEPTH 15,147' = 90.2° INC. - 181.1° AZM. - 9.9' BELOW, 8.2' RIGHT 6,992' TVD. (LATERAL LENGTH = 8,256')																	
24 Hr Summary: DRILL LATERAL TO TD @ 15,147'. TD WELL @ 00:00 HRS ON 10/02/2013. CIRC SWEEP HOLE CLEAN. POOH LAYING DOWN DRILL PIPE.																	
24 Hr Forecast: POOH. LAYING DOWN DRILL PIPE & DIRECTIONAL TOOLS, CHANGE RAMS, RIG UP TO RUN CASING.																	
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING					
Fluids Co.: HALLIBURTON				D M Cost(\$): \$8,735.44				Bit# 4				Size(in)					
Fluids Eng: SCOTT DEHART				C M Cost(\$): \$80,554.90				S/N 7145802				MD(ft)/TVD(ft)					
Time: 3:51 Oil Cnt (%): 73				Mud Additives				Size (in) 8.75				984.00 / 984.00					
Location: PIT H2O Cnt (%): 28				ENGINEERING 1				Mfg Hughes				5.50 15,170.03 / 7,015.01					
Pit Temp ("F): 145				EZ MUL 2				IADC Type				5.50 15,170.03 / 7,015.01					
Depth (ft): 14,463.03				CALCIUM CHLORIDE PO 56				Model # T606X									
Density (ppg): 8.80				BARABLOK 10													
FV (s/qt): 42				DRILL TREAT 9													
PV (cp): 14				LIME 65													
YP (lb/100ft²): 15				GELTONE V 18													
Gels (l): 12/15/19				INVERMUL 2													
WL (cc/30min): 10.00								Jets 6X14									
HTHP ("F): 250								Depth In (ft) 7,318									
Cake (32nd): 2.00								Depth Out (ft)									
Solids (lbm/bbl): 0								Bit Rotations 50/70									
ECD (ppg): 9.4								On Btm Hrs Cum 74.00									
								Footage Cum (ft) 7,832									
								ROP Cum 105.8									
								WOB mm/mx (kip) 30 / 45									
								RPM rot/bit 50 / 70									
								Bit HP 1.13									
								HSI 1.25									
								PSI Drop (psi) 257.54									
								Jet Vel (ft/s) 177.85									
								Imp Force 419.24									
								Grading I O D L B G O R									
								Bit #									
								Bit # 4									
MUD LOGGING																	
Trip Gas (units): @				BG Gas (units): 1,193				Surf to Surf:									
Conn Gas (units) 1,493 @				Pore Pressure: (%)				Lag Strokes:									
Form:								Lag Time: (min)									
BHA # 4																	
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	STRING LOADS				MUD PUMPS							
1	HUGHES T606X PDC BIT		8.750	1.00	1.00	On Btm Torque: 20,000				#1 #2 #3							
1	6.3/4" 1.83° 7/8 6.4 .31 RPG FBH M	1.750	6.750	26.34	27.34	Off Btm Torque: 7,500				Pump Type:							
1	UBHO SUB	2.820	6.750	2.44	29.78	Str. Wt. Up: 230				Liner ID: 0.00 0.00							
1	NMDC	3.250	6.820	31.02	60.80	Str. Wt. Down: 110				SPM: 0.00 0.00							
1	NM FLEX DC	2.820	6.690	30.84	91.64	Str. Wt. Rot.: 170				GPM: 0.00 0.00							
105	5" DP	4.276	5.000	3,309.69	3,401.33	Max Over Pull: 10				SPR:							
1	DRILLING AGITATOR	2.500	6.750	12.98	3,414.31					1 SPM: 0.00 0.00							
1	SHOCK SUB	2.250	6.875	10.75	3,425.06					Pressure: 0.00 0.00							
Total Length: 3,425.06						BHA PROPERTIES				2 SPM: 0.00 0.00							
						BHA Hrs: 18				Pressure: 0.00 0.00							
						Jar Hrs:											
						Cum String Hours: 73											
						Weight B Jars (kip):											
SURVEYS																	
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)			
14,608		91.30		180.40		9,629		-7,715.22		-665.38		-7,715.22		1.68			
14,703		90.10		180.40		9,627		-7,810.21		-666.04		-7,810.21		1.26			
14,798		90.70		181.40		9,627		-7,905.20		-667.53		-7,905.20		1.23			
14,893		90.00		181.20		9,626		-8,000.17		-669.69		-8,000.17		0.77			
14,988		91.00		181.10		9,625		-8,095.15		-671.59		-8,095.15		1.06			
15,083		90.80		180.50		9,624		-8,190.12		-672.92		-8,190.12		0.67			
15,104		90.20		181.10		9,624		-8,211.12		-673.21		-8,211.12		4.04			
15,147		90.20		181.10		9,624		-8,254.11		-674.04		-8,254.11		0.00			
OPERATION DETAILS																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION										
06:00	10:00	4.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 13,704' TO 13,893'.										
10:00	10:30	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.										
10:30	00:00	13.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 13,893' TO T.D. @ 15147'. T.D. WELL @ 00:00 HRS. ON 10/02/2013.										
00:00	04:00	4.00	P	DRLPRD	15	CIRC	PUMP SWEEPS & CIRC. HOLE CLEAN.										
04:00	06:00	2.00	P	DRLPRD	15	CIRC	WHILE RECUPERATING PIPE PUMP WITH REDUCED RATE AND WORK THROUGH TIGHT HOLE FROM 15,074' TO 15,147'.										
Daily Operations Comments																	
PDM: 1.83° FBH 7/8 6.4 SLICK BTB 5.04' BTG 32' BTS 43' RPG .31 WORKING OFF PLAN #3. NO MUD LOSS.																	
WPS 290960																	

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 010 Report Date: 10/03/2013 Spud Date: 09/24/2013 Release Date: DFS: 9.00 DOL: 10 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																																																																																																											
Depth md/tvd (ft): 15,147.03 / 6,992.09 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,130.00 Next Csg Point (ft): 15,170.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): Ground Level (ft): 2,702.0 POB: 27 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>16018249551</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>132,168</td> <td>0</td> <td>0</td> <td>132,168</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>1,133,050</td> <td>0</td> <td>0</td> <td>1,133,050</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	16018249551				Day Cost(\$):	132,168	0	0	132,168	Cum Cost(\$):	1,133,050	0	0	1,133,050	AFE(\$):	0	0	0	0																																																																															
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Current Activity: LDDP. 24 Hr Summary: CIRCULATE HOLE CLEAN. POOH TO BOC. CIRC. HOLE CLEAN. L.D. 5" DP. 24 Hr Forecast: LD BHA. TIH AND LD 5" DP FROM DERRICK. CHANGE RAMS. PJSM. R.U. AND RUN 5 1/2" PROD. CSG.																																																																																																																			
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																																																																																																													
Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 18:00 Oil Cnt (%): 68 Location: PIT H2O Cnt (%): 24 Pit Temp (°F): 145 Sand Cnt (%): 0.00 Depth (ft): 15,147.03 MBT (lbm/bbl): 0.0 Density (ppg): 9.00 pH: 0.0 FV (s/qt): 48 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 12/15/19 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 504.0 Cake (32nd"): 2.00 LGS (%): 2.50 Solids (lbm/bbl): 5 Ex Lime (ppb): 4.0 ECD (ppg): 9.5 OWR: 73.9 / 26.1		D M Cost(\$): \$9,445.80 C M Cost(\$): \$90,000.70 Mud Additives ENGINEERING 1 BARITE 41 80 GELTONE V 10 BARABLOK 25 LIME 50 MUD DIESEL 4,945 INVERMUL 2 EZ MUL 2 DRILL TREAT 6		Bit# 4 S/N 7145802 Size (in) 8.75 Mfg Hughes IADC Type T606X Model # Jets 6X14 Depth In (ft) 7,318 Depth Out (ft) 15,147 Bit Rotations 50/70 On Btm Hrs Cum Footage Cum (ft) ROP Cum 108.0 WOB mm/mx (kip) 30 / 45 RPM rot/bit 50 / 70 Bit HP 1.67 HSI 1.85 PSI Drop (psi) 334.69 Jet Vel (ft/s) 202.75 Imp Force 544.85		<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>984.00 /</td> <td>984.00</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit LOT(ppg)	9.63	984.00 /	984.00	5.50	15,170.03 /	7,015.01	5.50	15,170.03 /	7,015.01																																																																																																
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06:00	20:00	14.00	P	DRLPRD	15	CIRC	HOLE PACKING OFF. ROTATE AND RECIPROCATATE PIPE WHILE STAGING PUMPS UP. CIRCULATE HOLE CLEAN. PUMP SWEEP AROUND @ 570 GPM. PUMP SLUG.																																																																																																												
20:00	23:00	3.00	P	DRLPRD	13	TRIP	POOH TO BOC @ 7,310'. NO PROBLEMS.																																																																																																												
23:00	00:30	1.50	P	DRLPRD	15	CIRC	CIRCULATE BTM. UP @ 570 GPM. NO EXCESSIVE CUTTINGS. PUMP SLUG.																																																																																																												
00:30	06:00	5.50	P	DRLPRD	14	PULDSTR	L.D 5" DP.																																																																																																												
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WPS 289,971. NO MUD LOSSES.																																																																																																																			

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 011 Report Date: 10/04/2013 Spud Date: 09/24/2013 Release Date: DFS: 10.00 DOL: 11 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																																																																																																																																																																																
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Current Activity: RUNNING 5 1/2" PROD. CSG. @ 7,400'. 24 Hr Summary: LD BHA. TIH AND LD 5" DP FROM DERRICK. CHANGE RAMS. PJSM. R.U. AND RUN 5 1/2" PROD. CSG. @ 7,400'. 24 Hr Forecast: RUN PROD. CSG. TO TD. CIRC. AND CEMENT PROD. CSG. N.D. BOPE, SET CSG. SLIPS. N.U. CAP FLG. SECURE WELL. RELEASE RIG. RIG DOWN.																																																																																																																																																																																								
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																																																																																																																																																																																		
Fluids Co.: HALLIBURTON Fluids Eng: ERNESTO CRUZ Time: 18:00 Oil Cnt (%) : 68 Location: PIT H2O Cnt (%) : 24 Pit Temp ("F): 145 Sand Cnt (%) : 0.00 Depth (ft): 15,147.03 MBT (lbm/bbl): 0.0 Density (ppg): 9.00 pH: 0.0 FV (s/qt): 48 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 12/15/19 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP ("F): 250 ES (mV): 504.0 Cake (32nd): 2.00 LGS (%): 2.50 Solids (lbm/bbl): 5 Ex Lime (ppb): 4.0 ECD (ppg): 9.5 OWR: 73.9 / 26.1		D M Cost(\$): \$5,395.37 C M Cost(\$): \$95,396.07 Mud Additives LIME 20 MUD DIESEL 291 INVERMUL 1 BARITE 41 100 EZ MUL 1 DRILL TREAT 3 RIG WASH 1 ENGINEERING 1 OIL ABSORBENT CLAY 14		Bit# 4 S/N 7145802 Size (in) 8.75 Mfg Hughes IADC Type Model # T606X Jets 6X14 Depth In (ft) 7,318 Depth Out (ft) 15,147 Bit Rotations 50/70 On Btm Hrs Cum Footage Cum (ft) ROP Cum 108.0 WOB mm/mx (kip) / 30 / 45 RPM rot/bit / 50 / 70 Bit HP 1.67 HSI 1.85 PSI Drop (psi) 334.69 Jet Vel (ft/s) 202.75 Imp Force 544.85		<table border="1"> <thead> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>FT/LOT(ppg)</th> </tr> </thead> <tbody> <tr> <td>13.38</td> <td>40.00 /</td> <td>40.00</td> </tr> <tr> <td>9.63</td> <td>984.00 /</td> <td>984.00</td> </tr> <tr> <td>5.50</td> <td>15,170.03 /</td> <td>7,015.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	FT/LOT(ppg)	13.38	40.00 /	40.00	9.63	984.00 /	984.00	5.50	15,170.03 /	7,015.01																																																																																																																																																																					
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14,514		90.00		179.50		6,998		-7,621.18		-665.51		-7,621.18		3.90																																																																																																																																																																										
14,608		91.30		180.40		6,997		-7,715.17		-665.43		-7,715.17		1.68																																																																																																																																																																										
14,703		90.10		180.40		6,996		-7,810.16		-666.09		-7,810.16		1.26																																																																																																																																																																										
14,798		90.70		181.40		6,995		-7,905.14		-667.58		-7,905.14		1.23																																																																																																																																																																										
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14,988		91.00		181.10		6,994		-8,095.09		-671.65		-8,095.09		1.06																																																																																																																																																																										
15,083		90.80		180.50		6,992		-8,190.07		-672.97		-8,190.07		0.67																																																																																																																																																																										
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06:00	08:00	2.00	P	DRLPRD	14	PULDSTR	LD BHA.																																																																																																																																																																																	
08:00	08:30	0.50	P	DRLPRD	42	OTHER	CLEAN RIG FLOOR.																																																																																																																																																																																	
08:30	09:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																																																																																																																																																																																	
09:00	10:30	1.50	P	DRLPRD	13	TRIP	TIH WITH DP FROM DERRICK.																																																																																																																																																																																	
10:30	14:00	3.50	P	DRLPRD	14	PULDSTR	LDDP.																																																																																																																																																																																	
14:00	15:30	1.50	P	DRLPRD	13	TRIP	TIH WITH DRILL PIPE FROM DERRICK																																																																																																																																																																																	
15:30	19:00	3.50	P	DRLPRD	14	PULDSTR	LDDP.																																																																																																																																																																																	
19:00	19:30	0.50	P	DRLPRD	13	TRIP	CLEAN RIG FLOOR.																																																																																																																																																																																	
19:30	21:30	2.00	P	CASPRD1	23	RAMBLCK	REMOVE 5" RAMS AND INSTALL 5 1/2" CSG. RAMS																																																																																																																																																																																	
21:30	22:00	0.50	P	CASPRD1	24	RUNCAS	REMOVE RIG ELEVATORS AND BALES.																																																																																																																																																																																	
22:00	23:30	1.50	P	CASPRD1	24	RUNCAS	PJSM. R.U. EXPRESS CSG. TOOLS AND TORQUE TURN.																																																																																																																																																																																	
23:30	06:00	6.50	P	CASPRD1	24	RUNCAS	P.U. 5 1/2" 17.0# HCP-110 LTC SHOE TRACK, CIRCULATE TRRU. P.U. (1) - 5 1/2" CSG. PUP JT. - TOT LATCH IN COLLAR, 1) JT. 5 1/2" CSG., TOT OREO TOOL, TIH RUNNING AND TORQUE TURN 5 1/2" PROD. CSG. @ 7,400'.																																																																																																																																																																																	
Daily Operations Comments WPS 284,455. NO MUD LOSSES.																																																																																																																																																																																								

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4417HH/OH		Report Number: 012 Report Date: 10/05/2013 Spud Date: 09/24/2013 Release Date: DFS: 11.00 DOL: 12 AFE Days: 10 Last BOP T.: 09/24/2013 Safety & Environmental Incident: No																																																																									
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Current Activity: RIG RELEASED @ 01:30 hrs. 10/5/2013. RIGGING DOWN. 24 Hr Summary: RUN 5 1/2" PRODUCTION CASING. CIRCULATE OUT AIR. CEMENT CASING. ND BOPE. SET SLIPS. NU CAP FLANGE. RELEASE RIG @ 01:30 hrs. 10/5/2013. RIG DOWN. 24 Hr Forecast: RIG DOWN. PREP FOR MOVE TO UNIVERSITY 44 12 JH.																																																																															
MUD PROPERTIES Fluids Co.: HALLIBURTON Fluids Eng: ERNESTO CRUZ Time: 18:00 Oil Cnt (%): 68 Location: PIT H2O Cnt (%): 24 Pit Temp ("F): 145 Sand Cnt (%): 0.00 Depth (ft): 15,147.03 MBT (lbm/bbl): 0.0 Density (ppg): 9.00 pH: 0.0 FV (s/qt): 48 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft ³): 15 Chloride (ppm): 0 Gels (l): 12/15/19 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP ("F): 250 ES (mV): 504.0 Cake (32nd"): 2.00 LGS (%): 2.50 Solids (lbm/bbl): 5 Ex Lime (ppb): 4.0 ECD (ppg): 9.5 OWR: 73.9 / 26.1		MUD MATERIALS D M Cost(\$): \$1,505.00 C M Cost(\$): \$96,901.07 Mud Additives Used ENGINEERING 1 RIG WASH 1		BIT RECORD 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		CASING <table border="1"> <thead> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>FT/LOT(ppg)</th> </tr> </thead> <tbody> <tr> <td>13.38</td> <td>40.00 / 40.00</td> <td></td> </tr> <tr> <td>9.63</td> <td>984.00 / 984.00</td> <td></td> </tr> <tr> <td>5.50</td> <td>15,170.03 / 7,015.01</td> <td></td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	FT/LOT(ppg)	13.38	40.00 / 40.00		9.63	984.00 / 984.00		5.50	15,170.03 / 7,015.01																																																													
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Daily Operations Comments WPS 284,455. NO MUD LOSSES.																																																																															

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4417HH/OH

Report Number:

013

Country:

USA

Report Date:

10/06/2013

State/OCSG:

TEXAS

Spud Date:

09/24/2013

Field/Permit#:

WOLFCAMP EAST

Release Date:

DFS: 12.00 DOL: 13 AFE Days: 10

Supervisors:

CRAIG CART / JOHNNY CHATAGNIER

Last BOP T.:

09/24/2013

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Safety & Environmental Incident:

No

Depth md/tvd (ft):

15,147.03 / 6,992.09

Progress (ft):

0.00

ROP:

0.0 / = 0.00

Proposed TD (ft):

15,130.00

Next Csg Point (ft):

15,170.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

Ground Level (ft):

2,702.0

POB:

41

Total Man Hours:

0.00

AFE #:

160182/49551

Day Cost(\$):

23,895

Cum Cost(\$):

1,623,723

AFE(\$):

0

Drig

Comp

Fac

Total

Current Activity:

FINAL REPORT. MOVE TO UNIVERSITY 44 12 JH.

24 Hr Summary:

RIG DOWN. PREP FOR MOVE TO UNIVERSITY 44 12 JH

24 Hr Forecast:

MOVE TO UNIVERSITY 44 12 JH.

MUD PROPERTIES

MUD MATERIALS

BIT RECORD

CASING

INVENTORY

SOLIDS CONTROL

MUD LOGGING

MUD PUMPS

SURVEYS

OPERATION DETAILS

Fluids Co.:

HALLIBURTON

Fluids Eng:

ERNESTO CRUZ

Time:

18:00

Location:

PIT

Pit Temp (°F):

145

Depth (ft):

15,147.03

Density (ppg):

9.00

FV (s/qt):

48

PV (cp):

15

YP (lb/100ft²):

15

Gels (l):

12/15/19

WL (cc/30min):

10.00

HTHP (°F):

250

Cake (32nd"): 2.00

LGS (%): 2.50

Solids (lbm/bbl): 5

Ex Lime (ppb): 4.0

ECD (ppg): 9.5

OWR: 73.9 / 26.1

D M Cost(\$):

\$0.00

C M Cost(\$):

\$96,901.07

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)

MD(ft)/TVD(ft)

FIT/LOT(ppg)

13.38

40.00 / 40.00

9.63

984.00 / 984.00

5.50

15,170.03 / 7,015.01

Item

Inv

DIESEL

0

MUD DIESEL

0

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

#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):

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

14,514

90.00

179.50

6,998

-7,621.18

-665.51

-7,621.18

3.90

14,608

91.30

180.40

6,997

-7,715.17

-665.43

-7,715.17

1.68

14,703

90.10

180.40

6,996

-7,810.16

-666.09

-7,810.16

1.26

14,798

90.70

181.40

6,995

-7,905.14

-667.58

-7,905.14

1.23

14,893

90.00

181.20

6,995

-8,000.12

-669.74

-8,000.12

0.77

14,988

91.00

181.10

6,994

-8,095.09

-671.65

-8,095.09

1.06

15,083

90.80

180.50

6,992

-8,190.07

-672.97

-8,190.07

0.67

15,104

90.20

181.10

6,992

-8,211.07

-673.27

-8,211.07

4.04

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

06:00

24.00

P

RDMO

02

RDMO

RIG DOWN. PREP FOR MOVE TO UNIVERSITY 44 12 JH.

Daily Operations Comments