

Daily Drilling
EP ENERGY Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH
 Country: USA
 State/CSG: TEXAS
 Field/Permit#: WOLFCAMP EAST
 Supervisors: MIKE COKER / JD DAVIS
 Engineer/Manager: BRENT BAKER / PERRY EVANS

Report Number: 1
 Report Date: 02/11/2013
 Spud Date:
 Release Date:
 DFS: 0.00 DOL: 1 AFE Days: 11
 Last BOP T.: Safety & Environmental Incident: No

Depth md/tvd (ft): 868.00 / 868.00	Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft): 868.00	Rig Phone: 713-997-1205	AFE #:	160036/47922		
ROP: 868.0 / 0.00 = 0.00	RKB (ft): 2,728.01	Day Cost(\$):	248,349	60,000	0 308,349
Proposed TD (ft): 15,100.00	Ground Level (ft): 2,703.0	Cum Cost(\$):	248,349	60,000	0 308,349
Next Csg Point (ft): 15,049.03	POB: 56 Total Man Hours: 0.00	AFE(\$):	0	0	0

Current Activity: INSTALL RAMS IN B.O.P.
 24 Hr Summary: SKID RIG TO UNIVERSITY EAST 44-12 EH AND RIG UP SAME. N.U. B.O.P.'S AND CHOKE MANIFOLD. INSTALL RAMS IN B.O.P.
 24 Hr Forecast: FINISH INSTALL RAMS AND TEST B.O.P. EQUIPMENT AND 9 5/8" CASING. PERFORM SAFETY CHECKLIST. M.U. N.B.#1 AND RYAN DIRECTIONAL TOOLS. P.U. D.P. TO CASING SHOE. DRILL FLOAT EQUIP. AND CEMENT. DRILL AHEAD.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD			CASING		
Fluids Co.:		D M Cost(\$):	\$0.00	Bit#			Size(in)	MD(t)TVD(ft)	FT/LOT(ppg)
Fluids Eng.:		C M Cost(\$):	\$0.00	S/N			9.63	868.00 /	868.00
Time:	Oil Cnt:	Mud Additives	Used	Size (in)			5.50	15,049.03 /	6,725.01
Location:	H2O Cnt:			Mfg					
Pit Temp:	Sand Cnt:			IADC Type					
Depth:	MBT:			Model #					
Density:	pH:			Jets					
FV:	PM:			Depth In (ft)					
PV:	Pf/Mf:			Depth Out (ft)					
YP:	Chloride:			Bit Rotations					
Gels:	// Calcium:			On Btm Hrs Cum					
WL:	LCM:			Footage Cum (ft)					
HTHP:	ES (mV):			ROP Cum					
Cake:	LGS:			WOB min/mx (kip)					
Solids:	Ex Lime (ppb):			RPM rot/bit					
ECD:	OWR:			Bit HP					
MUD LOGGING									
Trip Gas (units): @	BG Gas (units): @	Surf to Surf:		HSI					
Conn Gas (units)		Lag Strokes:		PSI Drop (psi)					
Form:	Pore Pressure: (%)	Lag Time: (min)		Jet Vel (ft/s)					
				Imp Force					
				Grading	I O D L B G O R				
				Bit #					
				Bit #					

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

SURVEYS									
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)		
OPERATION DETAILS									
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION		
06:00	23:00	17.00	P	RDMO	02	RDMO	SKID RIG TO UNIVERSITY EAST 44-12 EH & RIG UP. (SAFETY MEETING W/ RIG AND TRUCKING PERSONNEL PRIOR TO BEGIN RIG MOVE.)		
23:00	06:00	7.00	P	CASSURF	28	NUBOPE	N.U. 13 5/8" 5M B.O.P.'S AND CHOKE MANIFOLD. INSTALL 5" RAMS IN UPPER RAM CAVITY AND BLINDS IN LOWER.		

Daily Operations Comments
 BEGIN WATER METER = 2161.11

Daily Drilling
EP ENERGY Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH
 Country: USA
 State/OSCG: TEXAS
 Field/Permit#: WOLFCAMP EAST
 Supervisors: MIKE COKER / JD DAVIS
 Engineer/Manager: BRENT BAKER / PERRY EVANS

Report Number: 002
 Report Date: 02/12/2013
 Spud Date: 02/12/2013
 Release Date:
 DFS: 0.00 DOL: 2 AFE Days: 11
 Last BOP T.: 02/11/2013
 Safety & Environmental Incident: No

Depth md/tvd (ft): 2,168.00 / 2,168.00	Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft): 1,300.00	Rig Phone: 713-997-1205	AFE #:	1600364/7922		
ROP: 1,300.0 / 5.50 = 236.36	RKB (ft): 2,728.01	Day Cost(\$):	80,542	0	80,542
Proposed TD (ft): 15,100.00	Ground Level (ft): 2,703.0	Cum Cost(\$):	328,891	60,000	388,891
Next Csg Point (ft): 15,049.03	POB: 34 Total Man Hours: 0.00	AFE(\$):	0	0	0

Current Activity: DRILLING @ 2,168'
 24 Hr Summary: FINISH N.U. AND TEST B.O.P.'S W/ 250 LOW AND 5,000 LB. HIGH TEST. TEST CSG. W/ 1500PSI/30MINS. M.U. RYAN DIRECTIONAL TOOLS AND TEST. P.U. D.P. TO TAG CEMENT AT 845'. DRILL CEMENT AND FLOAT EQUIP. DRILL 889' - 2168'
 24 Hr Forecast: DRILL TO K.O.P. @ 6233'. TRIP FOR CURVE ASSY.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING	
Fluids Co.:	CORY DRIVER	D M Cost(\$): \$1,375.00	C M Cost(\$): \$1,375.00	Bit# 18125	S/N 8.75	Size(in) 9.63	MD(t)TVD(ft) 868.00 /
Fluids Eng:		Mud Additives TAX	Used 1	Mfg ULTERRA	IADC Type 519M	5.50	Fit/Lot(ppg) 6,725.01
Time: 6:01	Oil Cnt: 1			Model #	Jets 7X20		
Location: H2O Cnt:					Depth In (ft) 889		
Pit Temp: Sand Cnt:		TRANSPORTATION	1		Depth Out (ft)		
Depth (ft): 868.00	MBT:	HOT SHOT	0		Bit Rotations	30/65	
Density (ppg): 10.00	pH:				On Btm Hrs Cum	5.50	
FV (s/qt): 28	Pm:				Footage Cum (ft)	1,279	
PV:	Pf/Mf:		/		ROP Cum	232.5	
YP:	Chloride:				WOB min/mx (kip)	6 / 20	
Gels:	// Calcium:				RPM rot/bit	0.84	
WL:	LCM:				Bit HP	0.39	
HTHP:	ES (mV):				HSI	68.58	
Cake:	LGS:				PSI Drop (psi)	87.55	
Solids:	Ex Lime (ppb):				Jet Vel (ft/s)		
ECD:	OWR:		/		Imp Force	265.83	
MUD LOGGING							
Trip Gas (units): @	BG Gas (units): 62	Surf to Surf:					
Conn Gas (units) 39 @ 39		Lag Strokes:					
Form:	Pore Pressure: (%)	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:	7,000	#1	#2	#3	
1	ULTERRA #18125			8.750	1.00	Off Btm Torque:	3,000	Pump DR	DR		
1	1.5 FBH 7/8 5.0STG.			6.750	26.28	Str. Wt. Up:	88	Type:			
1		2.750	6.625	5.00	32.28	Str. Wt. Down:	78	Liner ID: 6.00	6.00		
1		2.750	6.500	3.78	36.06	Str. Wt. Rot.:	82	SPM: 70.00	70.00		
1		3.500	6.500	31.10	67.16	Max Over Pull:		GPM: 293.02	293.02		
1		2.750	6.875	31.02	98.18			SPR:			
1		2.750	6.625	3.15	101.33			1 SPM: 0.00	0.00		
9		2.875	6.500	272.04	373.37			Pressure: 0.00	0.00		
1		2.750	6.500	2.74	376.11			2 SPM: 0.00	0.00		
				Total Length: 376.11				Pressure: 0.00	0.00		
BHA PROPERTIES						BHA Hrs:					
						Jar Hrs:					
						Cum String Hours: 0					
						Weight B Jars (kip):					
								T GPM (gpm): 293	SPP (psi): 1,700		
								AV (DC): 419	AV (DP): 279		

SURVEYS									
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)		
OPERATION DETAILS									
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION		
06:00	07:00	1.00	P	DRLPRD	19	TEST	FINISH INSTALLING BLIND RAMS AND TIGHTEN DOORS, 5" PIPE RAMS IN TOP, BLIND RAMS IN BOTTOM.		
07:00	13:30	6.50	P	DRLPRD	30	TSTWCEQ	TEST BOP'S, PIPE RAMS, BLIND RAMS, CHOKE MANIFOLD, CHOKE & KILL LINES, TIW VALVE, INSIDE BOP, & TOP DRIVE IBOP TO 5000/250, ANNUALAR TO 3500/250, TEST CASING TO 1500 PSI FOR 30 MINUTES, ALL TESTS GOOD.		
13:30	15:00	1.50	P	DRLPRD	17	CUTSLIP	CUT AND SLIP DRILL LINE		
15:00	15:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG AND TOP DRIVE		
15:30	16:00	0.50	P	DRLPRD	47	RROTHR	ELECTRICIAN WORKING ON MAN RIDER IN DERRICK.		
16:00	18:30	2.50	P	DRLPRD	13	TRIP	PICK UP DIRECTIONAL TOOLS AND SURFACE TEST SAME, PICKING UP 6 1/2" D.C.'S.		
18:30	20:30	2.00	N	DRLPRD	47	RROTHR	REPAIR PIPE WRANGLER.		
20:30	23:00	2.50	P	DRLPRD	14	PULDSTR	FINISH PICK UP BHA AND 5" D.P. TO TAG CEMENT AT 845'		
23:00	00:30	1.50	P	DRLPRD	72	DRLCMT	DRILL CEMENT AND FLOAT EQUIP. 845' - 889'		
00:30	06:00	5.50	P	DRLPRD	07	DRLVERT	DRILLING 889' - 2168'		

Daily Operations Comments
 BEGIN WATER METER = 2161.11 6 3/4" NOV MUD MOTOR 1.5 DEGREE FBH, 7/8 LOBE, 5.0 STAGE, .29 RPG

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 003 Report Date: 02/13/2013 Spud Date: 02/12/2013 Release Date: 02/11/2013 DOL: 3 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No					
Depth md/tvd (ft): 5,350.01 / 5,349.66 Progress (ft): 3,182.01 ROP: 3,182.0 / 23.50 = 135.40 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 26 Total Man Hours: 0.00 AFE(\$): 0 0 0 0			Drlg	Comp	Fac	Total		
Current Activity: DRILLING @ 5,350' 24 Hr Summary: DRILL TO 5,350' 24 Hr Forecast: DRILL TO K.O.P. @ 6233'. TRIP FOR CURVE ASSY.							AFE #:	1600364/47922	Day Cost(\$):	41,389	0	0	41,389		
							Cum Cost(\$)	370,280	60,000	0	0	430,280			
							AFE(\$):	0	0	0	0	0			
MUD PROPERTIES							MUD MATERIALS			BIT RECORD			CASING		
Fluids Co.:		D M Cost(\$):	\$121.28	Bit#		1	Size(in)	MD(t)/TVD(ft)	FIT/LOT(ppg)						
Fluids Eng:	CORY DRIVER	C M Cost(\$):	\$1,496.28	S/N			9.63	868.00 /	868.00						
Time:	6:01	Oil Cnt:		Size (in)			5.50	15,049.03 /	6,725.01						
Location:	ITION TANK	H2O Cnt (%):	85	Mfg				/							
Pit Temp:	Sand Cnt:	TAX		IADC Type											
Depth (ft):	3,298.01	MBT (lbm/bbl):	0.0	Model #											
Density (ppg):	10.00	ph:	9.0	Jets											
FV (s/qt):	28	Pm (cc):	0.1	Depth In (ft)											
PV:		Pf (cc):/Mf (cc):	0.1 / 0.3	Depth Out (ft)											
YP:		Chloride:		Bit Rotations											
Gels ():	1/1	Calcium:		On Btm Hrs Cum											
WL:		LCM:		Footage Cum (ft)											
HTHP:		ES (mV):		ROP Cum											
Cake (32nd%):		LGS (%):	4.74	WOB min/mx (kip)											
Solids:		Ex Lime (ppb):		RPM rot/bit											
ECD:		OWR:		Bit HP											
MUD LOGGING							HSI								
Trip Gas (units):	@	BG Gas (units):	240	PSI Drop (psi)											
Conn Gas (units):	255 @ 482			Jet Vel (ft/s)											
Form:		Pore Pressure: (%)	(min)	Imp Force											
				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:	8,000	#1	#2	#3					
1	ULTERRA #18125			8.750	1.00	Off Btm Torque:	2,000	Pump	DR	DR					
1	1.5 FBH 7/8 5.0STG.			6.750	26.28	Str. Wt. Up:	149	Type:							
1				6.625	5.00	Str. Wt. Down:	143	Liner ID:	6.00	6.00					
1				6.500	3.78	Str. Wt. Rot.:	144	SPM:	70.00	70.00					
1				6.500	31.10	Max Over Pull:		GPM:	293.02	293.02					
1				6.875	31.02		SPR:								
1				6.625	3.15		1 SPM:	0.00	0.00						
9				6.500	272.04		Pressure:	0.00	0.00						
1				6.500	373.37		2 SPM:	0.00	0.00						
				6.500	2.74		Pressure:	0.00	0.00						
				6.500	376.11										
					Total Length:	376.11	T GPM (gpm):	293	SPP (psi):	2,100					
							AV (DC):	419	AV (DP):	279					
SURVEYS															
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)								
3,815	0.50	14.80	3,815	-1.57	-5.47	1.58	0.56								
4,003	0.20	103.10	4,003	-2.29	-4.94	2.30	0.28								
4,191	0.50	190.00	4,191	-1.40	-4.76	1.42	0.28								
4,380	0.40	169.50	4,380	0.06	-4.79	-0.04	0.10								
4,568	0.30	208.30	4,568	1.14	-4.90	-1.12	0.13								
4,757	0.30	223.80	4,757	1.93	-5.48	-1.91	0.04								
4,946	0.60	126.10	4,946	2.87	-5.02	-2.86	0.37								
5,135	0.60	94.50	5,135	3.52	-3.23	-3.52	0.17								
OPERATION DETAILS															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION								
06:00	06:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG AND TDS								
06:30	06:00	23.50	P	DRLPRD	07	DRLVERT	DRILL FROM 2168' TO 5,350'. (DRILL AT REDUCED FLOW RATE 3,600' - 4,200' FOR REPAIRS TO #1 MUD PUMP ELECTRICAL SYSTEM.)								
Daily Operations Comments BEGIN WATER METER = 2161.11 6 3/4" NOV MUD MOTOR 1.5 DEGREE FBH, 7/8 LOBE, 5.0 STAGE, .29 RPG															

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 004 Report Date: 02/14/2013 Spud Date: 02/12/2013 Release Date: 02/11/2013 DOL: 4 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No											
Depth md/tvd (ft): 5,913.01 / 5,912.60 Progress (ft): 563.00 ROP: 563.0 / 12.50 = 45.04 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 25 Total Man Hours: 0.00 AFE(\$): 0			Drlg	Comp	Fac	Total								
Current Activity: DRILLING @ 5,913'. 24 Hr Summary: DRILL TO 5,651' W/ BIT #1, TRIP FOR NEW BIT AND NOV 2.12 DEG. MOTOR, DRILLING 5,651' - 5,913' 24 Hr Forecast: DRILL TO K.O.P. @ 6239'. DRILL CURVE.							AFE #:	16003647922	Day Cost(\$):	93,970	Cum Cost(\$):	464,250	60,000	0	93,970 524,250						
							POB:	25	Total Man Hours:	0.00	AFE(\$):	0	0	0	0						
MUD PROPERTIES Fluids Co.: CORY DRIVER D M Cost(\$): \$3,459.89 Fluids Eng: CORY DRIVER C M Cost(\$): \$4,956.17										MUD MATERIALS Oil Cnt (%): 0 Mud Additives Used H2O Cnt (%): 84 CAUSTIC SODA 2 Sand Cnt: TEX-XAN 17 MBT (lbm/bbl): 0.0 TAX 1 SODA ASH 5				BIT RECORD Bit# S/N 1 2 Size (in) 8.75 8.75 Mfg ULTRERRA 12164964 IADC Type HALLIBURTON Model # 519M MMD55C Jets 7X20 7X16 Depth In (ft) 889 5,651 Depth Out (ft) 5,651 Bit Rotations 30/70 30/30 On Btm Hrs Cum 9.00 3.50 Footage Cum (ft) 301 262 ROP Cum 125.3 74.9 WOB minmx (kip) 25 / 30 8 / 12 RPM rot/bit 30 / 70 30 / 30 Bit HP 0.00 1.31 HSI 0.00 0.95 IPSI Drop (psi) 0.00 167.44 Jet Vel (ft/s) 0.00 136.80 Imp Force 0.00 415.36				CASING Size(in) MD(t)/TVD(ft) FIT/LOT(ppg) 9.63 868.00 / 868.00 5.50 15,049.03 / 6,725.01 /			
										INVENTORY Item Inv RIG DIESEL 10,980											
										SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 240/240/240/240 2 270/270/270/270											
MUD LOGGING Trip Gas (units): 379 @ 1,327 BG Gas (units): 107 Surf to Surf: Conn Gas (units) 478 @ 656 Lag Strokes: Form: Pore Pressure: (%) Lag Time: (min)							MUD LOGGING Grading I O D L B G O R Bit # 1 7 7 CR N X 3 CR PR Bit # 2														
BHA # 2 Qty Item Description ID (in) OD (in) Len (ft) Cum (ft) 1 SEC. MMD55C 8.750 1.00 1.00 1 6.750 26.25 27.25 1 2.750 6.625 5.00 32.25 1 UBHO 2.750 6.500 3.78 36.03 1 3.500 6.500 31.10 67.13 1 FLEX. D.C. 2.250 6.500 31.08 98.21 Total Length: 98.21							STRING LOADS On Btm Torque: 8,000 Off Btm Torque: 2,000 Str. Wt. Up: 150 Str. Wt. Down: 144 Str. Wt. Rot: 146 Max Over Pull: BHA PROPERTIES BHA Hrs: 9 Jar Hrs: Cum String Hours: 33 Weight B Jars (kip):				MUD PUMPS #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): 586 SPP (psi): 2,100 AV (DC): 419 AV (DP): 279										
SURVEYS MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft) 4,380 0.40 169.50 4,380 0.06 -4.79 -0.04 0.10 4,568 0.30 208.30 4,568 1.14 -4.90 -1.12 0.13 4,757 0.30 223.80 4,757 1.93 -5.48 -1.91 0.04 4,946 0.60 126.10 4,946 2.87 -5.02 -2.86 0.37 5,135 0.60 94.50 5,135 3.52 -3.23 -3.52 0.17 5,323 0.60 65.90 5,323 3.19 -1.35 -3.19 0.16 5,512 0.80 57.80 5,512 2.08 0.66 -2.08 0.12 5,705 0.90 80.40 5,705 1.10 3.30 -1.11 0.18																					
OPERATION DETAILS FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION 06:00 06:30 0.50 P DRLPRD 12 RIGSVC SERVICE RIG & TDS 06:30 15:30 9.00 P DRLPRD 07 DRLVERT DRILL FROM 5350' TO 5651' 15:30 20:30 5.00 P DRLPRD 13 TRIP TRIP OUT OF HOLE DUE TO SLOW ROP. 20:30 21:30 1.00 P DRLPRD 14 PULDSTR STAND BACK D.C.'S AND LAY DOWN 1.5 DEG. MOTOR 21:30 23:30 2.00 P DRLPRD 14 PULDSTR M.U. RYAN 2.12 DEG. DIRECTIONAL ASSY. AND SURFACE TEST SAME. M.U. NEW BIT #2. 23:30 02:30 3.00 P DRLPRD 13 TRIP TRIP IN HOLE (PICK UP 9 JTS. D.P.) 02:30 06:00 3.50 P DRLPRD 07 DRLVERT DRILL 5,651' - 5,913'																					
Daily Operations Comments NOV MOTOR = 2.12 DEG. FBH, 4/5 LOBE, 7.0 STG. (BIT TO BEND = 3.34, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .50, MAX DIFF. = 1125#)																					

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 005 Report Date: 02/15/2013 Spud Date: 02/12/2013 Release Date: 02/11/2013 DOL: 5 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No			
Depth md/tvd (ft): 6,288.01 / 6,287.58 Progress (ft): 375.00 ROP: 375.0 / 12.50 = 30.00 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 25 Total Man Hours: 0.00 AFE(\$): 0.00			Drlg	Comp	Fac	Total
Current Activity: DRILL CURVE @ 6,288'. 24 Hr Summary: DRILL TO 6,101'. TRIP FOR NEW MOTOR AND BIT #3. DRILL TO K.O.P. @ 6,239' DRILL CURVE 6,239- 6,288'. 24 Hr Forecast: DRILL CURVE.							AFE #:	16003647922	Day Cost(\$):	63,757	0	0	63,757
							Cum Cost(\$)	528,008	60,000	0	588,008		
							AFE(\$):	0	0	0	0		
MUD PROPERTIES							BIT RECORD			CASING			
Fluids Co.: Fluids Eng: ADRIAN JONES	D M Cost(\$): \$2,694.34	C M Cost(\$): \$7,650.51	Bit# S/N	2 12164964	3 PY 1627	Size(in)	MD(t)/TVD(ft)	FIT/LOT(ppg)					
Time: 6:01 Oil Cnt (%): 0	Mud Additives	Used	Size (in)	8.75	8.75	9.63	868.00 /	868.00					
Location: ICTION TANK H2O Cnt (%): 84	TAX	1	Mfg	HALLIBURTON	SMITH	5.50	15,049.03 /	6,725.01					
Pit Temp: Sand Cnt: TEX-XAN		8	IADC Type				/						
Depth (ft): 6,043.01 MBT (lbm/bbl): 0.0	CAUSTIC SODA	4	Model #	MMD55C	FHI 23								
Density (ppg): 10.60 pH: 10.00	BARITE	40	Jets	7X16	ODVPS 3X22								
FV (s/qt): 29 Pm (cc): 0.2			Depth In (ft)	5,651	6,101								
PV (cp): 1 Pf (cc):/Mf (cc): 0.1 / 0.3			Depth Out (ft)	6,101									
YP (lbf/100ft ²): 1 Chloride (ppm): 167,000			Bit Rotations	30/30									
Gels (): 1/1 Calcium:			On Btm Hrs Cum	5.50									
WL (cc/30min): LCM:			Footage Cum (ft)	188									
HTHP: ES (mV):			ROP Cum	50.0									
Cake (32nd%): LGS (%): 6.11			WOB minmx (kip)	4 / 10									
Solids: Ex Lime (ppb):			RPM rot/bit	30 / 30									
ECD: OWR:			Bit HP	1.42									
			HSI	1.03									
			PSI Drop (psi)	179.89									
			Jet Vel (ft/s)	137.72									
			Imp Force	446.24									
MUD LOGGING							INVENTORY			SOLIDS CONTROL			
Trip Gas (units): 365 @ 1,564	BG Gas (units): 202	Surf to Surf:	Item	Inv									
Conn Gas (units): 787 @ 1,047		Lag Strokes:	RIG DIESEL	9,493									
Form: Pore Pressure: (%)	Lag Time: (min)												
BHA # 3							STRING LOADS			MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	4,500	#1	#2	#3			
1	FLEX MONEL	2.750	6.500	31.08	31.08	Off Btm Torque:	2,500	Pump	DR	DR			
1	MONEL COLLAR	3.500	6.500	31.10	62.18	Str. Wt. Up:	138	Type:					
1	UBHO SUB	2.750	6.500	3.78	65.96	Str. Wt. Down:	135	Liner ID:	6.00	6.00			
1	FLOAT SUB	2.750	6.500	5.00	70.96	Str. Wt. Rot:	136	SPM:	70.00	70.00			
1	NOV .212 DEGREE				97.02	Max Over Pull:		GPM:	293.02	293.02			
1	SMITH FHI 23 3x22'S	8.750		1.00	98.02		SPR:						
							1 SPM:	0.00	0.00				
							Pressure:	0.00	0.00				
							2 SPM:	0.00	0.00				
							Pressure:	0.00	0.00				
SURVEYS							BHA PROPERTIES			T GPM (gpm): 586 SPP (psi): 1,800			
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	BHA Hrs:	6				
4,946	0.60	126.10	4,946	2.87	-5.02	-2.86	0.37	Jar Hrs:					
5,135	0.60	94.50	5,135	3.52	-3.23	-3.52	0.17	Cum String Hours:	9				
5,323	0.60	65.90	5,323	3.19	-1.35	-3.19	0.16	Weight B Jars (kip):					
5,512	0.80	57.80	5,512	2.08	0.66	-2.08	0.12						
5,705	0.90	80.40	5,705	1.10	3.30	-1.11	0.18						
5,893	0.60	75.50	5,893	0.60	5.71	-0.62	0.16						
6,081	0.70	83.40	6,081	0.22	7.80	-0.24	0.07						
6,175	0.70	78.42	6,175	0.04	8.94	-0.06	0.06						
OPERATION DETAILS													
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION						
06:00	06:30	0.50	P	DRLPRD	07	DRLVERT	RIG SERVICE.						
06:30	12:00	5.50	P	DRLPRD	07	DRLVERT	DRILL FROM 5913' TO 6101', MOTOR STALLING WITH OVER 5 K WOB, 300 DIIFF.						
12:00	17:00	5.00	P	DRLPRD	13	TRIP	MOTOR LOCKED UP, TRIP OUT OF HOLE FOR NEW MOTOR.						
17:00	19:00	2.00	P	DRLPRD	13	TRIP	LAY DOWN DIRECTIONAL BHA. M.U. NEW 2.12 MOTOR AND NEW BIT #3. SURFACE TEST SAME.						
19:00	23:00	4.00	P	DRLPRD	13	TRIP	TRIP IN HOLE.						
23:00	04:00	5.00	P	DRLPRD	07	DRLVERT	DRILL 6,101' TO K.O.P. AT 6,239'.						
04:00	06:00	2.00	P	DRLPRD	09	DRLCRV	DRILL CURVE 6,239' - 6,288'						
Daily Operations Comments NOV MOTOR = 2.12 DEG. FBH, 4/5 LOBE, 7.0 STG. (BIT TO BEND = 3.33, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .50, MAX DIFF. = 1125#)													

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 006 Report Date: 02/16/2013 Spud Date: 02/12/2013 Release Date: 02/11/2013 DOL: 6 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No		
Depth md/tvd (ft): 6,503.01 / 6,492.17 Progress (ft): 215.00 ROP: 215.0 / 7.00 = 30.71 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 Country: USA State/OCSG: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: MIKE COKER / JD DAVIS Engineer/Manager: BRENT BAKER / PERRY EVANS			AFE #: 1600364/7922 Day Cost(\$): 85,626 Cum Cost(\$) 613,633 Total Man Hours: 0.00 AFE(\$): 0		
Current Activity: DRILL CURVE @ 6,503' (BIT PROJ. = 33.0 DEG. INC. @ 183 AZI. 7'LEFT, 4' ABOVE LINE) 24 Hr Summary: DRILL CURVE TO 6,382'- MOTOR FAILED- TRIP FOR NEW RYAN 2.12 MOTOR AND N.B. #4- DRILL CURVE TO 6,503'. 24 Hr Forecast: FINISH DRILL CURVE - TRIP FOR LATERAL ASSY..												
MUD PROPERTIES			MUD MATERIALS			BIT RECORD			CASING			
Fluids Co.: Fluids Eng: ADRIAN JONES	D M Cost(\$): C M Cost(\$):	\$1,691.53 \$9,342.04	Mud Additives	Used		Bit# S/N	3 PY 1627	4 PX6689	Size(in)	MD(t)/TVD(ft)	FT/LOT(ppg)	
Time: 6:01 Oil Cnt (%): 0	H2O Cnt (%): 85	TEX-XAN	2	8.75	SMITH	9.63	868.00 /	868.00				
Location: ICTION TANK	Sand Cnt:	SODA ASH	5	8.75	SMITH	5.50	15,049.03 /	6,725.01				
Pit Temp: 6,282.01	MBT (lbm/bbl): 0.0	BARITE	40	FHI 23	ODVPS		/					
Depth (ft): 10.60	ph: 10.00	TAX	1	3X22								
FV (s/qt): 30	Pm (cc): 0.1	CAUSTIC SODA	2	Jets								
PV (cp): 1 Pf (cc)/Mf (cc): 0.1 / 0.3	YP (lb/100ft ²): 1 Chloride (ppm): 168,000			Depth In (ft)	6,101	6,382						
Gels (): 1/1 Calcium:	WL (cc/30min): LCM:			Depth Out (ft)	6,382							
HTHP: ES (mV):	Cake (32nd%): LGS (%): 5.68			Bit Rotations	0/0							
Solids: Ex Lime (ppb):	ECD: OWR:			On Btm Hrs Cum	9.00							
				Footage Cum (ft)	281							
				ROP Cum	29.3							
				WOB min/mx (kip)	15 / 30	20 / 35						
				RPM rot/bit	0 / 0							
				Bit HP	1.69							
				HSI	1.51							
				PSI Drop (psi)	267.53							
				Jet Vel (ft/s)	167.96							
				Imp Force	537.74							
MUD LOGGING						BIT RECORD			CASING			
Trip Gas (units): 152 @ 1,528	BG Gas (units): 247	Surf to Surf:										
Conn Gas (units): 99 @ 1,401		Lag Strokes:										
Form: Pore Pressure: (%)		Lag Time: (min)										
BHA # 4							STRING LOADS			MUD PUMPS		
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)		On Btm Torque:	0	#1	#2	#3	
1	SMITH FHI 23			8.750	1.00		Off Btm Torque:	0				
1	RYAN 2.12 FBH			6.750	25.28		Str. Wt. Up:	155				
1	FLOAT SUB	2.750	6.625	5.00	31.28		Str. Wt. Down:	147				
1	UBHO SUB	2.750	6.500	3.78	35.06		Str. Wt. Rot.:	0				
1	NON-MAG D.C.	2.500	6.500	31.10	66.16		Max Over Pull:					
1	FLEX D.C.	2.750	6.500	31.08	97.24							
30	5" D.P.			5.000	943.27							
	X-OVER SUB	2.750	6.625	3.15	1,040.51							
9	RIG D.C.'S	2.874	6.500	272.04	1,315.70							
1	X-OVER SUB	2.750	6.500	2.74	1,318.44							
				Total Length:	1,318.44							
SURVEYS							BHA PROPERTIES					
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)					
6,175	0.70	78.42	6,175	0.04	8.94	-0.06	0.06					
6,237	1.20	149.50	6,237	0.52	9.64	-0.54	1.90					
6,269	3.90	167.10	6,269	1.87	10.05	-1.89	8.69					
6,300	7.60	174.30	6,299	4.93	10.49	-4.96	12.14					
6,327	11.00	174.60	6,326	9.27	10.91	-9.30	12.59					
6,358	14.10	177.00	6,356	15.99	11.38	-16.02	10.14					
6,389	18.00	181.40	6,386	24.55	11.46	-24.58	13.17					
6,421	22.00	186.20	6,416	35.46	10.70	-35.49	13.50					
OPERATION DETAILS												
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION					
06:00	06:30	0.50	P	DRLPRD	09	DRLCRV	RIG SERVICE.					
06:30	08:30	2.00	P	DRLPRD	09	DRLCRV	DIRECTIONAL DRILL CURVE FROM 6288' TO 6382'					
08:30	10:00	1.50	N	DRLPRD	57	DIRFAIL	PICK UP OFF BOTTOM TO TAKE A SURVEY, PRESSURED UP AND BLEW POP OFF VALVE, REPLACED PIN IN POP OFF, WORKED PIPE, NO DRAG, DETERMINED PROBLEM WAS IN MOTOR.					
10:00	15:30	5.50	N	DRLPRD	57	DIRFAIL	TRIP OUT OF HOLE WITH WET STRING.					
15:30	18:30	3.00	N	DRLPRD	57	DIRFAIL	BREAK BIT AND LAY DOWN FAILED NOV MOTOR. P.U. RYAN 2.12 MOTOR AND NEW BIT #4. SURFACE TEST MOTOR AND MWL.					
18:30	21:00	2.50	N	DRLPRD	17	CUTSLIP	CUT AND SLIP DRILL LINE.					
21:00	01:00	4.00	N	DRLPRD	13	TRIP	TRIP IN HOLE.					
01:00	06:00	5.00	P	DRLPRD	09	DRLCRV	DRILL CURVE 6,382' - 6,503'					
Daily Operations Comments RYAN MOTOR = 2.12 DEG. FBH, 6/7 LOBE, 5.0 STG. (BIT TO BEND = 3.81, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .29, MAX DIFF. = 900#)												

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 007 Report Date: 02/17/2013 Spud Date: 02/12/2013 Release Date: Dfs: 5.00 DOL: 7 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No					
Depth md/tvd (ft): 6,848.01 / 6,687.85 Progress (ft): 345.00 ROP: 345.0 / 11.50 = 30.00 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 35 Total Man Hours: 0.00 AFE(\$): 0 0 0 0			Drlg	Comp	Fac	Total		
Current Activity: TRIP IN HOLE. (BIT PROJ. = 78.0 DEG. @ 181.0 AZI. , 11.8' ABOVE, 5.2' RIGHT) 24 Hr Summary: DRILL CURVE 6,503' - 6,848' - TRIP FOR LATERAL ASSY. 24 Hr Forecast: FINISH DRILL CURVE - DRILL LATERAL.							AFE #:	16003647922	Day Cost(\$):	66,902	Cum Cost(\$):	680,535	60,000	0	740,535
MUD PROPERTIES							MUD MATERIALS			BIT RECORD		CASING			
Fluids Co.: Fluids Eng: ADRIAN JONES		D M Cost(\$): \$1,056.26	C M Cost(\$): \$10,398.32	Bit# S/N		4 PX6689	Size(in)	MD(t)/TVD(ft)	FIT/LOT(ppg)						
Time: 6:01	Oil Cnt (%): 0	Mud Additives	Used	Size (in)		8.75	9.63	868.00 /	868.00						
Location: ICTION TANK	H2O Cnt (%): 91	CAUSTIC SODA	3	Mfg		SMITH	5.50	15,049.03 /	6,725.01						
Pit Temp: Sand Cnt:	TAX	IADC Type		Model #				/							
Depth (ft): 6,652.01	MBT (lbm/bbl): 0.0	TEX-XAN	5	Jets	3X22	7X20									
Density (ppg): 10.40	ph: 10.0	Depth In (ft)													
FV (s/qt): 29	Pm (cc): 0.2	Depth Out (ft)													
PV (cp): 1 Pf (cc):/Mf (cc): 0.1 / 0.4	Chloride (ppm): 171,000	Bit Rotations													
YP (lbf/100ft ²): 1	Calcium: LCM:	On Btm Hrs Cum													
Gels (): 1/1	ES (mV):	Footage Cum (ft)													
WL (cc/30min):	LGS (%): 4.23	ROP Cum													
HTHP: ES (mV):	Solids: Ex Lime (ppb):	WOB min/mx (kip)													
Cake (32nd%):		RPM rot/bit													
ECD: OWR:		Bit HP													
		HSI													
		PSI Drop (psi)													
		Jet Vel (ft/s)													
		Imp Force													
MUD LOGGING							INVENTORY			SOLIDS CONTROL					
Trip Gas (units): 0 @ 0	BG Gas (units): 418	Surf to Surf:		Item	Inv										
Conn Gas (units): 630 @ 977		Lag Strokes:		RIG DIESEL	14,850										
Form: Pore Pressure: (%)		Lag Time: (min)													
BHA # 5							STRING LOADS			MUD PUMPS					
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	3,200	#1	#2	#3					
1	ULTERRA U519M		8.750	1.00	1.00	Off Btm Torque:	1,500	Pump	DR	DR					
1	1.83 FBH 7/8 5.0 STG.		6.750	26.19	27.19	Str. Wt. Up:	168	Type:							
1	FLOAT SUB	2.750	6.625	5.00	32.19	Str. Wt. Down:	155	Liner ID:	6.00	6.00					
1	UBHO	2.750	6.500	3.78	35.97	Str. Wt. Rot:	158	SPM:	70.00	70.00					
1	N.M.D.C.	3.500	6.500	31.10	67.07	Max Over Pull:		GPM:	293.02	293.02					
1	N.M.D.C.	2.750	6.875	31.02	98.09			SPR:							
48	5" D.P.		5.000	1,509.38	1,607.47			1 SPM:	0.00	0.00					
1	AGITATOR		6.875	12.96	1,620.43			Pressure:	0.00	0.00					
1	SHOCK SUB		6.875	10.83	1,631.26			2 SPM:	0.00	0.00					
				Total Length:	1,631.26			Pressure:	0.00	0.00					
SURVEYS							T GPM (gpm): 595	SPP (psi): 2,200							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	AV (DC): 419	AV (DP): 279						
6,578	41.50	183.00	6,549	117.71	0.27	-117.71	12.65								
6,609	45.50	182.10	6,571	139.02	-0.67	-139.02	13.06								
6,640	49.10	182.10	6,592	161.79	-1.51	-161.79	11.61								
6,671	53.40	181.20	6,611	185.95	-2.20	-185.95	14.05								
6,703	57.70	180.00	6,630	212.33	-2.47	-212.33	13.79								
6,734	61.90	180.00	6,645	239.12	-2.47	-239.11	13.55								
6,766	65.90	181.10	6,659	267.85	-2.75	-267.84	12.88								
6,797	70.40	182.70	6,671	296.60	-3.71	-296.59	15.29								
OPERATION DETAILS															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION								
06:00	06:30	0.50	P	DRLPRD	09	DRLCRV	RIG SERVICE.								
06:30	18:00	11.50	P	DRLPRD	09	DRLCRV	DIRECTIONAL DRILL CURVE FROM 6503' TO 6848'								
18:00	21:30	3.50	P	DRLPRD	13	TRIP	SLUG AND TRIP OUT OF HOLE (LAY DOWN 9- 6 1/2" D.C.S)								
21:30	00:30	3.00	P	DRLPRD	14	PULDSTR	LAY DOWN RYAN 2.12 DEG MOTOR AND BIT # 4. M.U. RYAN 1.83 DEG. MOTOR AND N.B. #5. (SURFACE TEST MOTOR AND MWD)								
00:30	06:00	5.50	P	DRLPRD	13	TRIP	TRIP IN HOLE. (M.U. AGITATOR AND SHOCK SUB 16 STD'S ABOVE DIRECTIONAL ASSY.)								
Daily Operations Comments							RYAN MOTOR = 1.83 DEG. FBH, 7/8 LOBE, 5.0 STG. (BIT TO BEND = 5.33, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .29, MAX DIFF. = 900#)								

Daily Drilling
EP ENERGY Report Onshore

Well Name/Wellbore No.:	UNIVERSITY EAST 4412EH/OH	Report Number:	008
Country:	USA	Report Date:	02/18/2013
State/OSCG:	TEXAS	Spud Date:	02/12/2013
Field/Permit#:	WOLFCAMP EAST	Release Date:	
Supervisors:	MIKE COKER / JD DAVIS	DFS: 6.00	DOL: 8 AFE Days: 11
Engineer/Manager:	BRENT BAKER / PERRY EVANS	Last BOP T.:	02/11/2013
		Safety & Environmental Incident: No	

Depth md/tvd (ft):	9,358.02 / 6,714.17	Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft):	2,510.01	Rig Phone: 713-997-1205	AFE #:	1600364/7922		
ROP:	2.510.0 / 23.50 = 106.81	RKB (ft): 2,728.01	Day Cost(\$):	43,647	0	43,647
Proposed TD (ft):	15,100.00	Ground Level (ft): 2,703.0	Cum Cost(\$):	724,183	60,000	784,183
Next Csg Point (ft):	15,049.03	POB: 24 Total Man Hours: 0.00	AFE(\$):	0	0	0

Current Activity: DRILL LATERAL @ 9,358' (BIT PROJ. = 90.0 DEG. @ 180.0 AZI. 8.9' BELOW, 2.1' RIGHT) LATERAL LENGTH = 2261'.

24 Hr Summary: FINISH DRILL CURVE (85 DEG. @ 7097') DRILL LATERAL 7,097' - 9358'

24 Hr Forecast: DRILL LATERAL.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING		
Fluids Co.:		D M Cost(\$):	\$1,764.29	Bit#	5	Size(in)	MD(t)/TVD(ft)	FT/LOT(ppg)
Fluids Eng:	ADRIAN JONES	C M Cost(\$):	\$12,162.61	S/N	18232	9.63	868.00 /	868.00
Time:	6:01	Oil Cnt (%):	0	Size (in)	8.75	5.50	15,049.03 /	6,725.01
Location:	ITION TANK	H2O Cnt (%):	85	Mfg	ULTERRA		/	
Pit Temp:	Sand Cnt:	BARITE	40	IADC Type				
Depth (ft):	7,431.01	TAX	1	Model #	U519M			
Density (ppg):	10.40	CAUSTIC SODA	18	Jets	7X20			
FV (s/qt):	28			Depth In (ft)	6,848			
PV (cp):	1	Pm (cc):	0.2	Depth Out (ft)				
YP (lbf/100ft ²):	1	Pf (cc):/Mf (cc):	0.1 / 0.3	Bit Rotations				
Gels (l):	1/1	Chloride (ppm):	169,000	On Btm Hrs Cum				
WL (cc/30min):		Calcium:		Footage Cum (ft)				
HTHP:		LCM:		ROP Cum				
Cake (32nd%):		ES (mV):		WOB min/mx (kip)				
Solids:		LGS (%):	4.75	RPM rot/bit				
ECD:		Ex Lime (ppb):		Bit HP				
		OWR:		HSI				
				PSI Drop (psi)				
				Jet Vel (ft/s)				
				Imp Force				
				Grading	I O D L B G O R			
				Bit #				
				Bit # 5				

MUD LOGGING

Trip Gas (units): 775 @ 1,345	BG Gas (units): 1,112	Surf to Surf:	
Conn Gas (units): 68 @ 3,005		Lag Strokes:	
Form:	Pore Pressure: (%)	Lag Time: (min)	

BHA # 5

Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)
1	ULTERRA U519M		8.750	1.00	1.00
1	1.83 FBH 7.8 5.0 STG.		6.750	26.19	27.19
1	FLOAT SUB	2.750	6.625	5.00	32.19
1	UBHO	2.750	6.500	3.78	35.97
1	N.M.D.C.	3.500	6.500	31.10	67.07
1	N.M.D.C.	2.750	6.875	31.02	98.09
48	5" D.P.		5.000	1,509.38	1,607.47
1	AGITATOR		6.875	12.96	1,620.43
1	SHOCK SUB		6.875	10.83	1,631.26
				Total Length:	1,631.26

STRING LOADS

On Btm Torque:	13,000
Off Btm Torque:	6,000
Str. Wt. Up:	160
Str. Wt. Down:	140
Str. Wt. Rot.:	150
Max Over Pull:	

BHA PROPERTIES

BHA Hrs:	24
Jar Hrs:	
Cum String Hours:	24
Weight B Jars (kip):	

MUD PUMPS

	#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): 586 SPP (psi): 2,350

AV (DC): 419 AV (DP): 279

SURVEYS

MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (/100ft)
8,649	91.50	181.00	6,720	2,141.72	-2.06	-2,141.72	3.65
8,743	91.00	181.40	6,718	2,235.68	-4.03	-2,235.68	0.68
8,837	91.70	180.50	6,716	2,329.64	-5.58	-2,329.64	1.21
8,931	91.00	181.60	6,714	2,423.60	-7.31	-2,423.59	1.39
9,025	89.30	180.40	6,713	2,517.59	-8.95	-2,517.57	2.21
9,119	89.40	179.90	6,714	2,611.58	-9.19	-2,611.57	0.54
9,213	91.00	180.20	6,714	2,705.58	-9.28	-2,705.56	1.73
9,307	89.50	178.50	6,714	2,799.56	-8.21	-2,799.55	2.41

OPERATION DETAILS

FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	06:30	0.50	P	DRLPRD	09	DRLCRV	SERVICE RIG.
06:30	11:00	4.50	P	DRLPRD	09	DRLCRV	DIRECTIONAL DRILL CURVE FROM 6848' TO 7097'
11:00	11:00	0.00	P	DRLPRD	10	DRLLAT	DIRECTIONAL DRILL LATERAL FROM 7097' TO 9,358'

Daily Operations Comments

RYAN MOTOR = 1.83 DEG. FBH, 7/8 LOBE, 5.0 STG. (BIT TO BEND = 5.33, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .29, MAX DIFF. = 900#)

85 DEGREES = 7097' (85 DEG. @ 7097')

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 009 Report Date: 02/19/2013 Spud Date: 02/12/2013 Release Date: DFS: 7.00 DOL: 9 AFE Days: 11 DLS: 02/11/2013 Last BOP T.: Safety & Environmental Incident: No			
Depth md/tvd (ft): 12,560.03 / 6,714.00 Progress (ft): 3,202.01 ROP: 3.202.0 / 23.50 = 136.26 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 25 Total Man Hours: 0.00 AFE(\$): 0.00			Drlg	Comp	Fac	Total
Current Activity: DRILL LATERAL (BIT PROJ, 12,560, 89.5 DEGREES, 182 AZI, 0.5' LOW, 2.3' LEFT) LATERAL 5514' 24 Hr Summary: DRILL LATERAL 24 Hr Forecast: DRILL LATERAL							A FE #:	1600364/47922	Day Cost(\$):	43,859	0	0	43,859
							Cum Cost(\$):	768,042	60,000	0	828,042		
							AFE(\$):	0.00	0	0	0		
MUD PROPERTIES							BIT RECORD			CASING			
Fluids Co.: Fluids Eng: ADRIAN JONES	D M Cost(\$): \$0.00	C M Cost(\$): \$12,162.61	Bit# S/N	5 18232	Size (in)	9.63 5.50	MD(t)/TVD(ft)	868.00 / 15,049.03	Fit/Lot(ppg)	868.00 6,725.01			
Time: 6:01 Oil Cnt (%): 0	Mud Additives	Used	Mfg	ULTERRA	IADC Type			/					
Location: ICTION TANK H2O Cnt (%): 86			Model #	U519M	Jets	7X20							
Pit Temp: Sand Cnt:			Depth In (ft)		6,848								
Depth (ft): 10,209.02 MBT (lbm/bbl): 0.0			Depth Out (ft)			60/60							
Density (ppg): 10.40 pH: 10.0			Bit Rotations			47.00							
FV (s/qt): 28 Pm (cc): 0.1			On Btm Hrs Cum			5,712							
PV (cp): 1 Pf (cc)/Mf (cc): 0.1 / 0.5			Footage Cum (ft)			121.5							
YP (lbf/100ft ²): 1 Chloride (ppm): 166,000			ROP Cum			25 / 30							
Gels (): 1/1 Calcium:			WOB min/mx (kip)			60 / 60							
WL (cc/30min): LCM:			RPM rot/bit			0.87							
HTHP: ES (mV):			Bit HP			0.41							
Cake (32nd%): LGS (%): 4.58			HSI			71.33							
Solids: Ex Lime (ppb):			PSI Drop (psi)			87.55							
ECD: OWR:			Jet Vel (ft/s)			276.46							
			Imp Force										
MUD LOGGING							INVENTORY			SOLIDS CONTROL			
Trip Gas (units): 0 @ 0	BG Gas (units): 1,138	Surf to Surf:	Item	Inv									
Conn Gas (units): 99 @ 3,597		Lag Strokes:	RIG DIESEL	10,518									
Form:	Pore Pressure: (%)	Lag Time: (min)											
			Grading	I O D L B G O R									
			Bit #										
			Bit # 5										
BHA # 5							STRING LOADS			MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	18,000	#1	#2	#3			
1	ULTERRA U519M			8.750	1.00	Off Btm Torque:	9,000	Pump	DR	DR			
1	1.83 FBH 7/8 5.0 STG.			6.750	26.19	Str. Wt. Up:	185	Type:					
1	FLOAT SUB	2.750	6.625	5.00	32.19	Str. Wt. Down:	85	Liner ID:	6.00	6.00			
1	UBHO	2.750	6.500	3.78	35.97	Str. Wt. Rot.:	148	SPM:	70.00	70.00			
1	N.M.D.C.	3.500	6.500	31.10	67.07	Max Over Pull:		GPM:	293.02	293.02			
1	N.M.D.C.	2.750	6.875	31.02	98.09		SPR:						
48	5" D.P.		5.000	1,509.38	1,607.47		1 SPM:	0.00	0.00				
1	AGITATOR		6.875	12.96	1,620.43		Pressure:	0.00	0.00				
1	SHOCK SUB		6.875	10.83	1,631.26		2 SPM:	0.00	0.00				
				Total Length:	1,631.26		Pressure:	0.00	0.00				
SURVEYS							BHA PROPERTIES			T GPM (gpm): 590 SPP (psi): 3,200			
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	BHA Hrs:	24				
11,661	91.00	178.60	6,710	5,151.99	-0.18	-5,152.01	0.24	Jar Hrs:					
11,756	89.70	180.60	6,710	5,246.98	0.48	-5,247.00	2.51	Cum String Hours:	47				
11,850	90.80	181.30	6,709	5,340.97	-1.08	-5,340.99	1.39	Weight B Jars (kip):					
11,944	91.10	180.30	6,708	5,434.95	-2.39	-5,434.96	1.11						
12,039	89.00	178.60	6,708	5,529.93	-1.48	-5,529.95	2.84						
12,133	89.80	181.30	6,709	5,623.92	-1.40	-5,623.94	3.00						
12,321	89.50	180.10	6,710	5,811.90	-3.69	-5,811.91	0.66						
12,415	88.90	181.80	6,711	5,905.88	-5.25	-5,905.89	1.92						
OPERATION DETAILS													
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION						
06:00	06:30	0.50	P	DRLPRD	10	DRLLAT	RIG SERVICE.						
06:30	06:00	23.50	P	DRLPRD	10	DRLLAT	DIRECTIONAL DRILL LATERAL FROM 9358' TO 12,560'.						
Daily Operations Comments							RYAN MOTOR = 1.83 DEG. FBH, 7/8 LOBE, 5.0 STG. (BIT TO BEND = 5.33, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .29, MAX DIFF. = 900#) 85 DEGREES = 7097' (85 DEG. @ 7097')						

Daily Drilling Report Onshore							Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH			Report Number: 010 Report Date: 02/20/2013 Spud Date: 02/12/2013 Release Date: DFS: 8.00 DOL: 10 AFE Days: 11 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No			
Depth md/tvd (ft): 15,054.03 / 6,698.46 Progress (ft): 2,494.00 ROP: 2,494.0 / 22.00 = 113.36 Proposed TD (ft): 15,100.00 Next Csg Point (ft): 15,049.03							Rig: PATTERSON/206 Rig Phone: 713-997-1205 RKB (ft): 2,728.01 Ground Level (ft): 2,703.0 POB: 23 Total Man Hours: 0.00 AFE(\$): 0 0 0 0			Drlg	Comp	Fac	Total
Current Activity: CIRCULATE HOLE CLEAN TO RUN 5 1/2" CASING. (BIT PROJ @ 15054' 90.8 DEGREES, 182.7 AZI, 2.7 LOW, 1' LEFT) LATERAL 7957 24 Hr Summary: DRILL, LATERAL, CIRCULATE 24 Hr Forecast: CIRCULATE HOLE CLEAN, L/D 5" DRILL PIPE, RIG UP AND RUN 5 1/2" CASING							AFE #:	16003647922	Day Cost(\$):	45,083	0	0	45,083
							Cum Cost(\$):	813,125	60,000	0	873,125		
							AFE(\$):	0	0	0	0		
MUD PROPERTIES							BIT RECORD			CASING			
Fluids Co.: ADRIAN JONES	D M Cost(\$): \$2,520.42	S/N	Bit# 5	Size(in) 9.63	MD(t)/TVD(ft) 868.00 /	Fit/Lot(ppg)							
Fluids Eng: ADRIAN JONES	C M Cost(\$): \$14,683.03			5.50	15,049.03 /	6,725.01							
Time: 6:01	Oil Cnt (%): 0	Mud Additives	18232		/								
Location: ICTION TANK	H2O Cnt (%): 84	Used	8.75										
Pit Temp:	Sand Cnt:	TAX	ULTERRA										
Depth (ft): 12,892.03	MBT (lbm/bbl): 0.0	TEX-XAN	U519M										
Density (ppg): 10.65	ph: 10.00	SCALE INHIBITOR 1829	Jets										
FV (s/qt): 28	Pm (cc): 0.2	CAUSTIC SODA	7X20										
PV (cp): 1	Pf (cc): 0.1 / 0.5	SODA ASH	6,848										
YP (lbf/100ft ²): 1	Chloride (ppm): 168,000		Depth In (ft)	60/65									
Gels (): 1/1	Calcium:		Depth Out (ft)	69.00									
WL (cc/30min):	LCM:		Bit Rotations	8,206									
HTHP:	ES (mV):		On Btm Hrs Cum	118.9									
Cake (32nd%):	LGS (%): 6.49		Footage Cum (ft)	25 / 35									
Solids:	Ex Lime (ppb):		ROP Cum	60 / 65									
ECD:	OWR:		WOB min/mx (kip)	0.92									
			RPM rot/bit	0.43									
			Bit HP	74.78									
			HSI	88.59									
			PSI Drop (psi)	289.86									
			Jet Vel (ft/s)										
			Imp Force										
MUD LOGGING							INVENTORY			SOLIDS CONTROL			
Trip Gas (units): 0 @ 0	BG Gas (units): 1,058	Surf to Surf:	Item	Inv									
Conn Gas (units): 44 @ 3,607		Lag Strokes:	RIG DIESEL	7,807									
Form:	Pore Pressure: (%)	Lag Time: (min)											
			Grading	I O D L B G O R									
			Bit #										
			Bit # 5										
BHA # 5							STRING LOADS			MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:	22,000	#1	#2	#3			
1	ULTERRA U519M			8.750	1.00	Off Btm Torque:	11,000	Pump	DR	DR			
1	1.83 FBH 7/8 5.0 STG.			6.750	26.19	Str. Wt. Up:	201	Type:					
1	FLOAT SUB	2.750	6.625	5.00	32.19	Str. Wt. Down:	144	Liner ID:	6.00	6.00			
1	UBHO	2.750	6.500	3.78	35.97	Str. Wt. Rot.:	148	SPM:	70.00	70.00			
1	N.M.D.C.	3.500	6.500	31.10	67.07	Max Over Pull:		GPM:	293.02	293.02			
1	N.M.D.C.	2.750	6.875	31.02	98.09		SPR:						
48	5" D.P.		5.000	1,509.38	1,607.47		1 SPM:	0.00	0.00				
1	AGITATOR		6.875	12.96	1,620.43		Pressure:	0.00	0.00				
1	SHOCK SUB		6.875	10.83	1,631.26		2 SPM:	0.00	0.00				
				Total Length:	1,631.26		Pressure:	0.00	0.00				
SURVEYS							BHA PROPERTIES			T GPM (gpm): 593 SPP (psi): 3,620			
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	AV (DC): 419	AV (DP): 279				
14,393	91.30	179.20	6,702	7,882.42	-21.49	-7,882.39	1.66						
14,487	93.20	178.00	6,698	7,976.31	-19.20	-7,976.29	2.39						
14,581	91.10	179.10	6,694	8,070.20	-16.82	-8,070.18	2.52						
14,675	88.30	180.70	6,695	8,164.18	-16.66	-8,164.17	3.43						
14,769	88.60	179.40	6,697	8,258.15	-16.74	-8,258.13	1.42						
14,864	89.10	178.80	6,699	8,353.11	-15.25	-8,353.10	0.82						
14,957	90.40	182.00	6,700	8,446.10	-15.90	-8,446.09	3.71						
15,003	90.80	182.70	6,699	8,492.06	-17.79	-8,492.04	1.75						
OPERATION DETAILS													
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION						
06:00	06:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG.						
06:30	04:30	22.00	P	DRLPRD	10	DRLLAT	DIRECTIONAL DRILL LATERAL FROM 12,560' TO 15054'						
04:30	06:00	1.50	P	DRLPRD	15	CIRC	PUMP SWEEPS AND CIRCULATE HOLE CLEAN.						
Daily Operations Comments							RYAN MOTOR = 1.83 DEG. FBH, 7/8 LOBE, 5.0 STG. (BIT TO BEND = 5.33, BIT TO SENSOR = 51', BIT TO GAMMA = 39', REVS./GAL = .29, MAX DIFF. = 900#) 85 DEGREES = 7097' (85 DEG. @ 7097')						

Daily Drilling
Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH							Report Number: 011				
Country: USA							Report Date: 02/21/2013				
State/OSCG TEXAS							Spud Date: 02/12/2013				
Field/Permit#: WOLF CAMP EAST							Release Date:				
Supervisors: BUTCH RADCLIFF / HOWARD PHILLIP							DFS: 9.00 DOL: 11 AFE Days: 11				
Engineer/Manager: BRENT BAKER / PERRY EVANS							Last BOP T.: 02/11/2013 Safety & Environmental Incident: No				
Depth md/tvd (ft):	15,054.03 / 6,698.46						Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft):	0.00						Rig Phone: 713-997-1205	AFE #:	16003647922		
ROP: 0.0 / = 0.00							RKB (ft): 2,728.01	Day Cost(\$):	97,128		
Proposed TD (ft):	15,100.00						Ground Level (ft): 2,703.0	Cum Cost(\$):	60,000 0 97,253		
Next Csg Point (ft):	15,049.03						POB: 34 Total Man Hours: 0.00	AFE(\$):	0 0 0 0		
Current Activity:	RUNNING 5 1/2" PROD CSG AT 1000'										
24 Hr Summary:	CIRCULATE HOLE CLEAN, POOH LAYING DOWN DRILL PIPE & BHA, INSTALL CSG RAMS, RU CSG EQUIP, MU FLOAT EQUIP & TOE GUN JT AND RIH 5 1/2" PROD CSG										
24 Hr Forecast:	FINISH RUN & CMT 5 1/2" PROD CASING, INSTALL WELL HEAD										
MUD PROPERTIES			MUD MATERIALS			BIT RECORD			CASING		
Fluids Co.: Fluids Eng: ADRIAN JONES	D M Cost(\$): \$6,529.61	C M Cost(\$): \$21,212.64	Mud Additives	Used	Bit# S/N	5	Size(in)	MD(t/t)TVD(ft)	FIT/LOT(ppg)		
Time: 6:01 Oil Cnt (%): 0			SODA ASH	1	18232	9.63	868.00 /	868.00			
Location: ICTION TANK H2O Cnt (%): 84			TAX	594	8.75	5.50	15,049.03 /	6,725.01			
Pit Temp: Sand Cnt: 0			HOT SHOT	0	ULTERRA						
Depth (ft): 15,054.03 MBT (lbn/bbl): 0.0			TRANSPORTATION	0	U519M						
Density (ppg): 10.65 pH: 10.00			Jets	7X20							
FV (s/qt): 28 Pm (cc): 0.2			Depth In (ft)	6,848							
PV (cp): 1 Pf (cc)/Mf (cc): 0.1/0.5			Depth Out (ft)	15,054							
YP (lbf/100ft ²): 1 Chloride (ppm): 168,000			Bit Rotations	70/70							
Gels (): 1/1 Calcium: WL (cc/30min): LCM: HTHP: ES (mV):			On Btm Hrs Cum	69.00							
Cake (32nd%): LGS (%): 6.49			Footage Cum (ft)	8,206							
Solids: Ex Lime (ppb): ECD: OWR: /			ROP Cum	118.9							
			WOB min/mx (kip)	0 / 0							
			RPM rot/bit	70 / 70							
			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 # 5	1 1 NO S X I NO TD							
MUD LOGGING			BHA # 5			STRING LOADS			MUD PUMPS		
Trip Gas (units): 0 @ 0	BG Gas (units): 1,058	Surf to Surf:	On Btm Torque:	11,000	#1	#2	#3				
Conn Gas (units): 744 @ 3,607		Lag Strokes:	Off Btm Torque:	11,000							
Form:	Pore Pressure: (%)	Lag Time: (min)	Str. Wt. Up:	200							
			Str. Wt. Down:	140							
			Str. Wt. Rot.:	160							
			Max Over Pull:								
BHA PROPERTIES			BHA Hrs: 0								
			Jar Hrs:								
			Cum String Hours:	69							
			Weight B Jars (kip):								
SURVEYS											
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)				
14,393	91.30	179.20	6,702	7,882.42	-21.49	-7,882.39	1.66				
14,487	93.20	178.00	6,698	7,976.31	-19.20	-7,976.29	2.39				
14,581	91.10	179.10	6,694	8,070.20	-16.82	-8,070.18	2.52				
14,675	88.30	180.70	6,695	8,164.18	-16.66	-8,164.17	3.43				
14,769	88.60	179.40	6,697	8,258.15	-16.74	-8,258.13	1.42				
14,864	89.10	178.80	6,699	8,353.11	-15.25	-8,353.10	0.82				
14,957	90.40	182.00	6,700	8,446.10	-15.90	-8,446.09	3.71				
15,003	90.80	182.70	6,699	8,492.06	-17.79	-8,492.04	1.75				
OPERATION DETAILS											
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION				
06:00	07:00	1.00	P	DRLPRD	15	CIRC	CIR AND COND HOLE FOR CASING				
07:00	08:00	1.00	N	DRLPRD	43	RRTOP	CHANGE OUT HYDRAULIC CYLINDERS ON TOP DRIVE.				
08:00	08:30	0.50	P	DRLPRD	12	RIGSVC	SER RIG AND TDS.				
08:30	10:00	1.50	P	DRLPRD	14	PULDSTR	PUMP SLUG AND LAY DOWN DP.				
10:00	10:30	0.50	N	DRLPRD	47	RROTHR	REPLACE HYDRAULIC HOSE ON ST-80.				
10:30	01:30	15.00	P	DRLPRD	14	PULDSTR	LAY DOWN DP. & DIRECTIONAL TOOLS				
01:30	03:30	2.00	P	CASPRD1	23	RAMBLCK	INSTALL CSG RAMS				
03:30	06:00	2.50	P	CASPRD1	24	RUNCAS	RU CSG EQUIP, MU FLOAT EQUIP & TOE GUN JT, RIH 5 1/2" PROD CSG AT 1000'.				
Daily Operations Comments											

Daily Drilling
EP ENERGY Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH
 Country: USA
 State/OCRG: TEXAS
 Field/Permit#: WOLFCAMP EAST
 Supervisors: BUTCH RADCLIFF / HOWARD PHILLIP
 Engineer/Manager: BRENT BAKER / PERRY EVANS

Report Number: 012
 Report Date: 02/22/2013
 Spud Date: 02/12/2013
 Release Date:
 DFS: 10.00 DOL: 12 AFE Days: 11
 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No

Depth md/tvd (ft):	15,054.03 / 6,698.46	Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft):	0.00	Rig Phone: 713-997-1205	A FE #:	1600364/7922		
ROP: 0.0 / = 0.00		RKB (ft): 2,728.01	Day Cost(\$):	481,220	0	481,220
Proposed TD (ft):	15,100.00	Ground Level (ft): 2,703.0	Cum Cost(\$):	1,391,473	60,000	0
Next Csg Point (ft):	15,054.03	POB: 44 Total Man Hours: 0.00	A FE(\$):	0	0	0

Current Activity: INSTALLING CSG HANGER SLIPS
 24 Hr Summary: RIH 5 1/2" CSG, TAGGED BTM @ 15,054', RIG UP CMT HEAD, PRESSURE UP & RUPTURE FLOATATION COLLAR & PLUG
 CIRC. & COND. W/ RIG PUMPS. CMT CSG. SET WEATHERFORD CSG. HANGER.

24 Hr Forecast: SECURE BOP, SKID RIG TO UNIVERSITY 4412 DH

MUD PROPERTIES		MUD MATERIALS		BIT RECORD			CASING		
Fluids Co.:		DM Cost(\$):	\$33.40	Bit#			Size(in)	MD(t)TVD(ft)	FT/LOT(ppg)
Fluids Eng.:	ADRIAN JONES	CM Cost(\$):	\$21,246.04	S/N			9.63	868.00 /	868.00
Time:	6:01 Oil Cnt (%): 0	Mud Additives	Used	Size (in)			5.50	15,054.03 /	6,698.01
Location: ICTION TANK	H2O Cnt (%): 84	CORROSION INHIBITOR	5	Mfg	IADC Type	Model #		/	
Pit Temp:	Sand Cnt:			Jets					
Depth (ft):	15,054.03 MBT (lbn/bbl): 0.0			Depth In (ft)	Depth Out (ft)				
Density (ppg):	10.65 pH: 10.0			Bit Rotations					
FV (s/qt):	28 Pm (cc): 0.2			On Btm Hrs Cum					
PV (cp):	1 Pf (cc)/Mf (cc): 0.1/0.5			Footage Cum (ft)					
YP (lbf/100ft ²):	1 Chloride (ppm): 168,000			ROP Cum					
Gels (l):	1/1 Calcium:			WOB min/mx (kip)					
WL (cc/30min):	LCM:			RPM rot/bit					
HTHP:	ES (mV):			Bit HP					
Cake (32nd%):	LGS (%): 6.49			HSI					
Solids:	Ex Lime (ppb):			PSI Drop (psi)					
ECD:	OWR: /			Jet Vel (ft/s)					
MUD LOGGING									
Trip Gas (units): 0 @ 0	BG Gas (units): 0	Surf to Surf: Lag Strokes:		Imp Force					
Conn Gas (units): 0 @ 3,607		(%) Lag Time: (min)		Grading	I O D L B G O R				
Form:	Pore Pressure:	(%)		Bit #					
				Bit #					

INVENTORY		SOLIDS CONTROL		
Item		Inv		
RIG DIESEL		12,428		
MUD PUMPS		#1	#2	#3
Pump Type:				
Liner ID:				
SPM:				
GPM:				
SPR:				
1 SPM:				
Pressure:				
2 SPM:				
Pressure:				
T GPM (gpm):		SPP (psi):		
AV (DC): 419		AV (DP): 279		

SURVEYS								
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	
14,393	91.30	179.20	6,702	7,882.42	-21.49	-7,882.39	1.66	
14,487	93.20	178.00	6,698	7,976.31	-19.20	-7,976.29	2.39	
14,581	91.10	179.10	6,694	8,070.20	-16.82	-8,070.18	2.52	
14,675	88.30	180.70	6,695	8,164.18	-16.66	-8,164.17	3.43	
14,769	88.60	179.40	6,697	8,258.15	-16.74	-8,258.13	1.42	
14,864	89.10	178.80	6,699	8,353.11	-15.25	-8,353.10	0.82	
14,957	90.40	182.00	6,700	8,446.10	-15.90	-8,446.09	3.71	
15,003	90.80	182.70	6,699	8,492.06	-17.79	-8,492.04	1.75	
OPERATION DETAILS								
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	
06:00	18:00	12.00	P	CASPRD1	24	RUNCAS	RIH 5 1/2" CSG, TAGGED BTM @ 15,054'	
18:00	18:30	0.50	P	CASPRD1	24	RUNCAS	RIG DOWN CSG EQUIP	
18:30	22:00	3.50	P	CASPRD1	25	PRIMCEM	RIG UP CMT HEAD, PRESSURE UP TO 2,788 PSI & RUPTURE FLOATATION COLLAR, DROP BTM PLUG TO FLOAT COLLAR, PRESSURED UP TO 1450 PSI, BURST PLUG, CIRCULATE BTM UP	
22:00	03:30	5.50	P	CASPRD1	25	PRIMCEM	HOLD PJSW WITH ALL THIRD PARTY PERSONNEL INVOLVED IN CEMENTING OPERATIONS, SWAP LINES AND TEST TO 6,000 PSI, PUMP 40 BBLS. OF WATER AHEAD, MIX AND PUMP 755 SKS. LEAD CEMENT, CLASS "H", 11.5 PPG, DENSITY, 2.57 YIELD, 8% BENTONITE, 0.1% ECONOLITE, 0.25 LB/M 5000, 0.7% HR-601. TAIL CEMENT- 2185 SKS. CLASS "H", 14.4 PPG. DENSITY, 1.27 YIELD, 0.7% HALAD (R)-23, 0.1% FWCA, 5% POTASSIUM CHLORIDE, 0.15% HR601, DISPLACE AT 7 BPM, WITH 2% CLAYWEB WATER, PUMP 347 BBLS. OF DISPLACEMENT TO BUMP PLUG, 20BBLS. OF CEMENT TO SURFACE, FULL RETURNS THROUGHOUT JOB, BUMPED PLUG AT 0245 HRS., BLED BACK 3 BBLS, FLOATS HOLDING	
03:30	06:00	2.50	P	CASPRD1	27	TSTWHEQ	BREAK & LIFT BOP, SET WEATHERFORD CASING HANGER W/ 110,000# STRING WEIGHT.	
Daily Operations Comments								
CALLED TRRC AND SPOKE WITH IVEY. NOTIFICATION OF CEMENTING 5 1/2 CASING. TIME 4:20 PM. 2/21/2013.								
NOTIFIED JEFF WHITE WITH UNIVERSITY LAND AND GAVE NOTIFICATION OF SKID JOB COMMING UP. 2/19/2013.								

Daily Drilling
EP ENERGY Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412EH/OH
 Country: USA
 State/OCSG: TEXAS
 Field/Permit #: WOLF CAMP EAST
 Supervisors: BUTCH RADCLIFF / HOWARD PHILLIP
 Engineer/Manager: BRENT BAKER / PERRY EVANS

Report Number: 013
 Report Date: 02/23/2013
 Spud Date: 02/12/2013
 Release Date: DFS: 11.00 DOL: 13 AFE Days: 11
 Last BOP T.: 02/11/2013 Safety & Environmental Incident: No

Depth md/tvd (ft):	15,054.03 / 6,698.46	Rig: PATTERSON/206	Drlg	Comp	Fac	Total
Progress (ft):	0.00	Rig Phone: 713-997-1205	A FE #:	1600364/7922		
ROP: 0.0 / = 0.00		RKB (ft): 2,728.01	Day Cost(\$):	-16,785	0	-16,785
Proposed TD (ft):	15,100.00	Ground Level (ft): 2,703.0	Cum Cost(\$):	1,364,688	60,000	1,424,688
Next Csg Point (ft):	15,054.03	POB: 36 Total Man Hours: 0.00	A FE(\$):	0	0	0

Current Activity: RELEASE RIG @ 14:00, (2:00 PM) FEBRUARY 22 2013.

24 Hr Summary: SECURE BOP, RIG DOWN.

24 Hr Forecast: RELEASE RIG @ 14:00, (2:00 PM) FEBRUARY 22 2013.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING		
Fluids Co.:		D M Cost(\$):	\$0.00	Bit#		Size(in)	MD(t)/TVD(ft)	FT/LOT(ppg)
Fluids Eng:	ADRIAN JONES	C M Cost(\$):	\$21,246.04	S/N		9.63	868.00 /	868.00
Time:	6:01	Oil Cnt (%):	0	Mfg		5.50	15,054.03 /	6,698.01
Location:	ITION TANK	H2O Cnt (%):	84	iADC Type		/		
Pit Temp:		Sand Cnt:		Model #				
Depth (ft):	15,054.03	MBT (lbm/bbl):	0.0	Jets				
Density (ppg):	10.65	ph:	10.0	Depth In (ft)				
FV (s/qt):	28	Pm (cc):	0.2	Depth Out (ft)				
PV (cp):	1	Pf (cc)/Mf (cc):	0.1 / 0.5	Bit Rotations				
YP (lbf/100ft ²):	1	Chloride (ppm):	168,000	On Btm Hrs Cum				
Gels ('): 1/1		Calcium:		Footage Cum (ft)				
WL (cc/30min):		LCM:		ROP Cum				
HTHP:		ES (mV):		WOB min/mx (kip)				
Cake (32nd)":		LGS (%):	6.49	RPM rot/bit				
Solids:		Ex Lime (ppb):		Bit HP				
ECD:		OWR:		HSI				
				PSI Drop (psi)				
				Jet Vel (ft/s)				
				Imp Force				
MUD LOGGING								
Trip Gas (units):	0 @ 0	BG Gas (units):	0	Grading	I O D L B G O R			
Conn Gas (units):	0 @ 3,607			Bit #				
Form:		Pore Pressure: (%)	(min)	Bit #				

MUD PUMPS								
	#1	#2	#3					
Pump Type:								
Liner ID:								
SPM:								
GPM:								
SPR:								
1 SPM:								
Pressure:								
2 SPM:								
Pressure:								
T GPM (gpm):				SPP (psi):				
AV (DC):	419			AV (DP):	279			

SURVEYS								
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15,003	90.80	182.70	6,699	8,492.06	-17.79	-8,492.04	1.75	

OPERATION DETAILS								
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION	
06:00	09:00	3.00	P	CASPRD1	27	TSTWHEQ	CUT CASING, AND INSTILL CAP ON WELL HEAD.	
09:00	14:00	5.00	P	RDMO	02	RDMO	SECURE BOP STACK AND READY RIG FOR SKID. RELEASE RIG AT 14:00 (2:00 PM) 2/22/2013.	

Daily Operations Comments
