



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 11/24/2014
Report Number: 4
Rig: INTEGRITY, 2
Projected Days (days): 18
Drilling Days:
End MD (ftKB): 731
Depth Progress (ft): 621
Planned VS (ft):
Current VS (ft):
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary					
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB)	14,927

Status at Report Time
DRILLING AHEAD @ 731'

Operations Summary MOB R/U SPUD @ 2130 DRILL FROM 110' TO 731'	Planned Operations DRILL TO TD 751' TOOH RUN CASING AND CEMENT
NO EHS ISSUES	

RIG RELEASED AFTER THIS WELL					
Start MD (ftKB)	End MD (ftKB)	Depth Progress (ft)	Drilling Time (hr)	Avg ROP (ft/hr)	
110	731	621	7.00	88.7	

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	09:00	4.00	110	110	WAIT ON TRUCKS				RIG UP/RIG DOWN	
09:00	17:00	8.00	110	110	MOB				RIG UP/RIG DOWN	
17:00	21:30	4.50	110	110	R/U DRILL F 30' TO 110'				RIG UP/RIG DOWN	
21:30	05:00	7.50	110	731	SPUD @2130 DRILL FROM 110' TO 731'				DRILL W/ AIR	



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 11/25/2014
Report Number: 5
Rig: INTEGRITY, 2
Projected Days (days): 18
Drilling Days:
End MD (ftKB): 751
Depth Progress (ft): 20
Planned VS (ft):
Current VS (ft):
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time
RIG RELEASED

Operations Summary
DRILL FROM 731' TO 751' TD @0600 TOOHP RUN 17 JTS 13 3/8" CASING RUN CEMENT W/UNIVERSAL
BUMPED PLUG FLOAT HELD 114 BBLS TO SURFACE R/D RR 1800

Planned Operations
NONE

NO EHS ISSUES

NO NEW WELL AT THIS TIME

Start MD (ftKB) 731	End MD (ftKB) 751	Depth Progress (ft) 20	Drilling Time (hr) 1.00	Avg ROP (ft/hr) 20.0
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Time Log

Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	06:00	1.00	731	751	DRILL FROM 731' TO 751' TD @ 0600				DRILL W/ AIR	
06:00	08:30	2.50	751	751	TOOH FOR CASING				TRIPS	
08:30	11:30	3.00	751	751	RUN 17 JTS 13 3/8" CASING SET @ 751'				RUN CASING	
11:30	13:00	1.50	751	751	R/U CEMENTERS TEST LINES				RIG UP/RIG DOWN	
13:00	14:30	1.50	751	751	RUN CEMENT W/UNIVERSAL BUMPED PLUG FLOAT HELD 114 BBLS TO SURFACE				RUN CEMENT	
14:30	15:00	0.50	751	751	R/D CEMENTERS				RIG UP/RIG DOWN	
15:00	18:00	3.00	751	751	R/D RR @ 1800				RIG UP/RIG DOWN	



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/26/2015
Report Number: 6
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days:
End MD (ftKB): 751
Depth Progress (ft): 0
Planned VS (ft): 7,408
Current VS (ft):
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time
N/U BOPE.

Operations Summary RIG DOWN, SKID RIG OVER TO UNIVERSITY 09-1828H, R/U LAST SURVEY: N/S, E/W NEXT WELL: ????. BIG RIG SPUD DATE.	Planned Operations N/U BOPE, TEST, P/U BHA #2 AND DRILL OUT.
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Start MD (ftKB) 751	End MD (ftKB) 751	Depth Progress (ft) 0	Drilling Time (hr)	Avg ROP (ft/hr)
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Time Log

Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
10:00	19:00	9.00	751	751	HANG OFF BLOCK, POWER DOWN RIG FLOOR, UNPLUG UMBILICAL WIRES FROM SUB, REMOVE EXTENDED FLOWLINE AND FLOWLINE STANDS, LAY V-DOOR OVER, MOVE CHOKE MANIFOLD SKID, HOOK UP HYD UNIT, WALK RIG OVER TO NEXT HOLE AND CENTER OVER HOLE..	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
19:00	22:00	3.00	751	751	INSTALL STAIRS, FLOWLINE, CATWALK AND RAISE V-DOOR. SET IN JUNK BOX/HPU UNIT, ACCUMALATOR AND CHOKE MANIFOLD SKID. CRANE, DRILL LINE SPOOL, TANDEM AND FORKLIFT RELEASED @ 2200 HRS.	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
22:00	00:00	2.00	751	751	R/U HPU UNIT AND POWER UP TO RAISE BOP WRANGLER. R/U UMBILICAL WIRES POWER UP TOP DRIVE, DRAWWORKS AND FLOOR.	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
00:00	05:00	5.00	751	751	HOOK UP HYD, RAISE BOP W/WRANGLER AND SET ON WELLHEAD. INSTALL DRESSER SLEEVE ON FLOWLINE AND TURNBUCKLES. UNHANG TOPDRIVE, INSTALL JUMPER HOSE FOR STANDPIPE ON GROUND. PERFORM FUNCTION AND SPIN TEST ON TOP DRIVE. REPLACE SEAL ON ROTARY TABLE W/T & C HYDRAULICS TECH.	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/27/2015
Report Number: 7
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 1
End MD (ftKB): 947
Depth Progress (ft): 196
Planned VS (ft): 7,408
Current VS (ft):
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time
DRILLING AHEAD @ 947'.

Operations Summary R/U, NU BOPE, TEST, PU BHA #2, DRILL OUT AND DRILL 751' - 947'. LAST SURVEY: 802' INC 0.2°, AZM 349.3°, N/S -0.3, E/W -1.2 NEXT WELL: ????. BIG RIG SPUD DATE EST: 1/27/15 0100 HRS	Planned Operations DRILL INTERMEDIATE HOLE TO 6200'.
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Start MD (ftKB) 751	End MD (ftKB) 947	Depth Progress (ft) 196	Drilling Time (hr) 2.00	Avg ROP (ft/hr) 98.0
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Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	09:00	4.00	751	751	FINISH REPLACING SEAL ON ROTARY TABLE, PERFORM PRE-SPUD INSPECTION, DRESS SHAKERS, CENTER STACK, REMOVE GUTS FROM CHECK VALVE AND INSTALL WELLHEAD VALVES. RIG ACCEPTED FOR DAYWORK @ 0900 HRS.	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
09:00	12:00	3.00	751	751	NIPPLE UP BOP W/HYDROSTATIC OILFIELD SERVICES, N/U CHOKE LINE, KILL LINE, INSTALL HYD LINES AND FUCTION TEST BOPE.	MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	
12:00	18:30	6.50	751	751	TEST CHOKE MANIFOLD 250 LOW 5000 HIGH, SET TEST PLUG FILL STACK W WATER, TEST BOP, HCRS, KILL VALVES, TOP, BOTTOM AND BLIND RAMS 250 LOW, 5000 PSI HIGH. ANNULAR 250 LOW 3500 PSI HIGH. FLOOR VALVES AND TOP DRIVE TIW 250 LOW 5000 PSI HIGH. KELLY HOSE, STANDPIPE BACK TO PUMPS 250 LOW, 4000 HIGH. TESTED CASING TO 500 PSI 30 MIN AND CHARTED PRESSURE AND R/D TESTERS.	MOB	MOB	SKID/WALK	TEST B.O.P	
18:30	20:00	1.50	751	751	INSTALL WEAR BUSHING, MOUSEHOLE, STRAP AND CALIPER DCS.	MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	
20:00	22:00	2.00	751	751	P/U BHA #2, MTR, STABS, MONEL, MWD, ORIENT AND MU BIT.	MOB	MOB	SKID/WALK	P/U & L/D BHA	
22:00	23:00	1.00	751	751	P/U 1-8" AND 3-6.5" DCS OFF RACK.	MOB	MOB	SKID/WALK	P/U & L/D BHA	
23:00	00:00	1.00	751	751	TIH 210' - 685'. TAG CEMENT.	MOB	MOB	SKID/WALK	TRIPS	
00:00	00:30	0.50	751	751	DISPLACE WATER OUT OF HOLE.	MOB	MOB	SKID/WALK	COND MUD & CIRC	
00:30	01:00	0.50	751	751	DRILL CEMENT AND FLOAT EQUIPMENT 685' - 751'.	MOB	MOB	SKID/WALK	DRILL ACTUAL	
01:00	02:00	1.00	751	751	ROT DRILL 751' - 845'.	INT	VERT	DRILL	DRILL W/ MUD	
02:00	02:30	0.50	751	751	REMOVE TRIP NIPPLE AND INSTALL ROT HEAD.	INT	VERT	DRILL	NIPPLE UP B.O.P./WELLHEAD	
02:30	03:30	1.00	751	947	ROTATE/SLIDE 751' - 947', 196' AT 196' FPH ROTATE DRILL, 196' IN 1 HRS, 196' FPH SLIDE DRILL, 0', IN 0 HRS, 0 FPH 100% ROTATE, 0% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	
03:30	05:00	1.50	947	947	WORK ON BOS THROUGH. CUTTINGS BUILDING UP. C/O HOSE ON CENTRIFUGE PUMP.	INT	VERT	DRILL	3rd PARTY EQUIPMENT REPAIR	Yes



AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/28/2015
Report Number: 8
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 2
End MD (ftKB): 3,205
Depth Progress (ft): 2,258
Planned VS (ft): 7,408
Current VS (ft): 2
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time DRILLING AHEAD @ 3205'.							
Operations Summary DRILL ROT/SLIDE 947' - 3205'. LAST SURVEY: 3060' INC 0.9°, AZM 326.5°, N/S 2.5, E/W 8.4, AHEAD 1', LEFT 10'. DISTANCE FROM UNIVERSITY 09 #1803H: 959' DISTANCE FROM UNIVERSITY 09 #1826H: 123' DISTANCE FROM UNIVERSITY 09 #1827H: 43' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS				Planned Operations DRILL INTERMEDIATE HOLE TO 6200'.			
Start MD (ftKB) 947	End MD (ftKB) 3,205	Depth Progress (ft) 2,258	Drilling Time (hr) 24.00	Avg ROP (ft/hr) 94.1			

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	05:00	24.00	947	3,205	ROTATE/SLIDE 947' - 3205', 2258' AT 94.1' FPH ROTATE DRILL 2230' IN 22.5 HRS, 99.1' FPH SLIDE DRILL, 28', IN 1.5 HRS, 18.7 FPH 99% ROTATE, 1% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	



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PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/29/2015
Report Number: 9
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 3
End MD (ftKB): 5,040
Depth Progress (ft): 1,835
Planned VS (ft): 7,408
Current VS (ft): 5
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time DRILLING AHEAD AT 5040', NO ISSUES							
Operations Summary DRILL ROT/SLIDE 3205' - 5040'. N/S 4.7, E/W 6.5, AHEAD 12', LEFT 2'. DISTANCE FROM UNIVERSITY 09 #1803H: 955' DISTANCE FROM UNIVERSITY 09 #1826H: 257' DISTANCE FROM UNIVERSITY 09 #1827H: 68' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS				Planned Operations DRILL INTERMEDIATE HOLE TO 6200'.			
Start MD (ftKB) 3,205	End MD (ftKB) 5,040	Depth Progress (ft) 1,835	Drilling Time (hr) 23.50	Avg ROP (ft/hr) 78.1			

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	00:30	19.50	3,205	4,807	ROTATE/SLIDE 3205' - 4807', 1602' AT 82' FPH ROTATE DRILL, 1590' IN 19.5 HRS, 82' FPH SLIDE DRILL, 12', IN .5 HRS, 25 FPH 99% ROTATE, 1% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	
00:30	01:00	0.50	4,807	4,807	SERVICE RIG	INT	VERT	DRILL	LUBRICATE RIG	
01:00	05:00	4.00	4,807	5,040	ROTATE/SLIDE 4807' - 5040, 233' AT 59' FPH ROTATE DRILL, 198' IN 2.5 HRS, 80' FPH SLIDE DRILL, 25', IN 1.5 HRS, 17 FPH 85% ROTATE, 15% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	



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PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/30/2015
Report Number: 10
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 4
End MD (ftKB): 6,180
Depth Progress (ft): 1,140
Planned VS (ft): 7,408
Current VS (ft): 30
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time DRILLING AHEAD @ 6180', NO ISSUES							
Operations Summary DRILL ROT/SLIDE 5040' - 6180' N/S 29.7, E/W 13.1, AHEAD 12', RIGHT 1'. DISTANCE FROM UNIVERSITY 09 #1803H: 929' DISTANCE FROM UNIVERSITY 09 #1826H: 288' DISTANCE FROM UNIVERSITY 09 #1827H: 74' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE: 1/27/15 @ 01:00 HRS				Planned Operations TD AT 6212', CIRC. HOLE CLEAN, TOOHP, L/D BHA & H/W, RUN 9.625 CASING, CEMENT			
Start MD (ftKB) 5,040	End MD (ftKB) 6,180	Depth Progress (ft) 1,140	Drilling Time (hr) 24.00	Avg ROP (ft/hr) 47.5			

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	05:00	24.00	5,040	6,180	ROTATE/SLIDE 5040' - 6180', 1140' AT 63' FPH ROTATE DRILL, 1068' IN 18, HRS, 60' FPH SLIDE DRILL, 72', IN 6.0 HRS, 12' FPH 94% ROTATE, 6% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 1/31/2015
Report Number: 11
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 5
End MD (ftKB): 6,212
Depth Progress (ft): 32
Planned VS (ft): 7,408
Current VS (ft): 29
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLF CAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time RUNNING 9.625 CASING @ 5200', LOST DISP. @ 4000'				
Operations Summary DRILL ROT/SLIDE 6180' - 6212, TOOH, L/D BHA, RUN 9.625 CSG N/S 28.91, E/W 13.84, AHEAD 13', RIGHT 1'. DISTANCE FROM UNIVERSITY 09 #1803H: 929' DISTANCE FROM UNIVERSITY 09 #1826H: 288' DISTANCE FROM UNIVERSITY 09 #1827H: 74' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS			Planned Operations CEMENT 9.625, P/U CURVE ASSEMBLY, TIH, DRILL OUT SHOE TRAC	
Start MD (ftKB) 6,180	End MD (ftKB) 6,212	Depth Progress (ft) 32	Drilling Time (hr) 1.50	Avg ROP (ft/hr) 21.3

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	06:30	1.50	6,180	6,212	ROTATE/SLIDE 6180' - 6212', 32' AT 21.3' FPH ROTATE DRILL.32' IN 1.5. HRS, 21.3' FPH SLIDE DRILL, 0, IN 0 HRS, 0 FPH 100% ROTATE, 0% SLIDE FULL RETURNS.	INT	VERT	DRILL	DRILL W/ MUD	
06:30	08:00	1.50	6,212	6,212	CIRC HOLE CLEAN TO TOOH TO RUN CASING	INT	VERT	DRILL	COND MUD & CIRC	
08:00	11:00	3.00	6,212	6,212	POOH 6212' - 761'. PULLED ROT. HEAD AND INSTALL TRIP NIPPLE @ 5785'	INT	VERT	DRILL	TRIPS	
11:00	12:30	1.50	6,212	6,212	L/D BHA, 18 HWDP, 3-6" DCS AND 1-8" DC F 761' - 85'	INT	VERT	DRILL	TRIPS	
12:30	15:00	2.50	6,212	6,212	DRAIN MOTOR BREAK BIT, L/D DIRECTIONAL TOOLS F 85'-0	INT	VERT	DRILL	TRIPS	
15:00	16:00	1.00	6,212	6,212	PULL WEAR BUSHING AND CLEAR FLOOR TO RUN CSG.	INT	VERT	DRILL	TRIPS	
16:00	18:00	2.00	6,212	6,212	HOLD PJSM, RU PIPE PREMIERE CSG CREW.	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
18:00	02:00	8.00	6,212	6,212	MU 1 JT SHOE TRACK W/AUTO FILL. RUNNING A TOTAL 151 JTS. 9.625, 56 JNTS 40.0#, L-80 LTC INTERMEDIATE CSG, TORQUED TO 7300# OPTIMUM, 101 JTS 9.625 J-55, 40.0# LTC TORQUED TO 5200#. TOPPING OFF CSG ON THE FLY. AUTO FILL FAILED @ 500'. WEATHERFORD AUTO FILL FLOAT COLLAR 402NP @ 6162'. WEATHERFORD TYPE E303 AUTO FILL FLOAT SHOE @ 6202'. NOTIFIED RRC ON 1/30/15 0900 HRS OF INTENT TO RUN AND CEMENT CSG. SPOKE TO IVY.	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
02:00	03:00	1.00	6,212	6,212	HAND SLIP DIES BAD, P/U SPIDERS @ 4000'	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	Yes
03:00	05:00	2.00	6,212	6,212	MU 1 JT SHOE TRACK W/AUTO FILL. RUNNING A TOTAL 151 JTS. 9.625, 56 JNTS 40.0#, L-80 LTC INTERMEDIATE CSG, TORQUED TO 7300# OPTIMUM, 101 JTS 9.625 J-55, 40.0# LTC TORQUED TO 5200#. TOPPING OFF CSG ON THE FLY. AUTO FILL FAILED @ 500'. WEATHERFORD AUTO FILL FLOAT COLLAR 402 NP @ 7102'. WEATHERFORD TYPE E 303 AUTO FILL FLOAT SHOE @ 6202'.	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	



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PARTNERS

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UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/1/2015
Report Number: 12
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 6
End MD (ftKB): 6,212
Depth Progress (ft): 0
Planned VS (ft): 0
Current VS (ft): 29
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time TIH W/ BHA # 3 @ 3500', NO ISSUES				
Operations Summary RAN 151 JNTS 9.625, CEMENT SAME, INSTALL PACKER, P/U BHA #3, TIH N/S 28.91, E/W 13.84, AHEAD 13', RIGHT 1'. DISTANCE FROM UNIVERSITY 09 #1803H: 929' DISTANCE FROM UNIVERSITY 09 #1826H: 288' DISTANCE FROM UNIVERSITY 09 #1827H: 74' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS			Planned Operations DRILL OUT SHOE TRAC, DRILL TO KICK OFF @ 7200'	
Start MD (ftKB) 6,212	End MD (ftKB) 6,212	Depth Progress (ft) 0	Drilling Time (hr)	Avg ROP (ft/hr)

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	06:30	1.50	6,212	6,212	TAG UP ON TIGHT SPOT @ 5188', MAKE UP SWEDGE & CIRCULATING IRON, WASH DOWN F 5188' - 5202' W 37 SPM 3.6 BPM NO RETURNS	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
06:30	08:00	1.50	6,212	6,212	RAN CSG F 5202 - 6202'. RUNNING A TOTAL 151 JTS. 9.625, 56 JNTS 40.0#, L -80 LTC INTERMEDIATE CSG, TORQUED TO 7300# OPTIMUM, 101 JTS 9.625 J-55, 40.0# LTC TORQUED TO 5200#. TOPPING OFF CSG ON THE FLY. AUTO FILL FAILED @ 500'. WEATHERFORD AUTO FILL FLOAT COLLAR 402 NP @ 6162'. WEATHERFORD TYPE E 303 AUTO FILL FLOAT SHOE @ 6202'.	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
08:00	09:30	1.50	6,212	6,212	TAG BOTTOM, L/D TAG JT, PU CASING HANGER, LANDING JT AND LAND CSG IN WELLHEAD, R/D CASING CREW	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
09:30	11:00	1.50	6,212	6,212	PJSM.FILL PIPE W FILL UP LINE, R/U CMT HEAD, PUMP 10 BBLS OBM NO RETURNS	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
11:00	14:30	3.50	6,212	6,212	UNIVERSAL CEMENTING: SAFETY MEETING, TEST LINES TO 3200 PSI, PUMP 9.625 CEMENT JOB, 40 BBLS FW, 50 BBL LCM SPACER, 10 BBL FW SPACER, LEAD= 525 SACKS (298 BBLS) ,PREMIUM PLUS 11.2 PPG, TAIL=275 SACKS (71 BBLS) UNIVERSAL PREMIUM MAX-LITE, 13.4 PPG, 7 BBL/MIN PUMP RATE, PUMP 10 BBL FRESH WATER SPACER, DISPLACEMENT 466 BBL OF 8.9 MUD, PARTIAL RETURNS TILL 200 BBLS INTO DISPLACEMENT LOST RETURNS, BUMP PLUG @ 14:00 HRS 500 PSI OVER FINAL PSI 1000 PSI, NO SPACER BACK, NO CEMENT. EST TOP OF LEAD: 500', EST TOP OF TAIL: 5200'.	INT	VERT	CSG/CEMENT	RUN CASING & CEMENT	
14:30	16:00	1.50	6,212	6,212	FLUSH SUGAR WATER THRU STACK, R/D CEMENTERS	INT	VERT	CSG/CEMENT	RUN CASING	
16:00	18:00	2.00	6,212	6,212	BACK OUT OF LANDING JNT, P/U PACK OFF AND ATTEMPT TO LAND PACK OFF, TREID TREE TIMES TO LAND PACK OFF WITH NO LUCK	INT	VERT	CSG/CEMENT	RUN CASING	
18:00	22:30	4.50	6,212	6,212	L/D LANDING TOOL, P/U STAND D/P, FLUSHED STACK WITH FRESH WATER	INT	VERT	CSG/CEMENT	RUN CASING	Yes
22:30	01:00	2.50	6,212	6,212	SET PACKER, TEST SAME TO 5000 PSI 15 MIN W/GE SERVICE TECH. INSTALL WEAR BUSHING	INT	VERT	CSG/CEMENT	RUN CASING	
01:00	03:00	2.00	6,212	6,212	P/U BHA # 3, SCRIBE & TEST SAME	INT	VERT	CSG/CEMENT	P/U & L/D BHA	
03:00	05:00	2.00	6,212	6,212	TIH F/O' T/3500', FILL PIPE @ 35 STDS	INT	VERT	CSG/CEMENT	TRIPS	



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AMERICAN ENERGY - PERMIAN BASIN, LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/2/2015
Report Number: 13
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 7
End MD (ftKB): 7,629
Depth Progress (ft): 1,417
Planned VS (ft): 0
Current VS (ft): 147
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time BUILDING CURVE @ 7629', NO ISSUES							
Operations Summary DRILL SHOE TRAC, TEST CSG, DRILL FROM 6212' - 7629', KOP @ 7132' N/S 140.6, E/W 25', AHEAD 43', RIGHT 22'. BRN 9.4 DISTANCE FROM UNIVERSITY 09 #1803H: 418' DISTANCE FROM UNIVERSITY 09 #1826H: 328' DISTANCE FROM UNIVERSITY 09 #1827H: 155' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS				Planned Operations LAND CURVE @ 8129', DRILL LATERAL			
Start MD (ftKB) 6,212	End MD (ftKB) 7,629	Depth Progress (ft) 1,417	Drilling Time (hr) 20.00	Avg ROP (ft/hr) 70.8			

Time Log											
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT	
05:00	07:00	2.00	6,212	6,212	TIH 3500' - 6155'. FILL PIPE EVERY 30 STDS. REMOVE TRIP NIPPLE AND INSTALLED ROT HEAD @ 6005'.	INT	VERT	CSG/CEMENT	TRIPS		
07:00	07:30	0.50	6,212	6,212	FILL PIPE, BREAK CIRC AND TEST CSG TO 1500 PSI FOR 30 MIN. GOOD	INT	VERT	CSG/CEMENT	COND MUD & CIRC		
07:30	09:00	1.50	6,212	6,212	DRILL CEMENT, FLOAT EQUIPMENT AND RATHOLE 6155' - 6212'.	INT	VERT	CSG/CEMENT	DRILL W/ MUD		
09:00	20:30	11.50	6,212	7,132	ROTATE TO KOP 6212' - 7132', 920' AT 80' FPH	PROD	DIR	DRILL	DRILL W/ MUD		
20:30	05:00	8.50	7,132	7,629	ROTATE/SLIDE 7132' - 7629, 497' AT 59' FPH ROTATE DRILL, 31' IN 0.5 HRS, 62' FPH SLIDE DRILL, 466, IN 8 HRS, 59 FPH 16% ROTATE, 84% SLIDE FULL RETURNS. KOP @ 7132'	PROD	CURVE	DRILL	DRILL W/ MUD		



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AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/3/2015
Report Number: 14
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 8
End MD (ftKB): 8,166
Depth Progress (ft): 537
Planned VS (ft): 0
Current VS (ft): 599
AFE Number: 1420104

API 42383392880000		Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY		Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 11/23/2014		Total Depth Date 2/7/2015		Rig Release Date 2/10/2015		Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,927		
Status at Report Time BUILDING CURVE @ 8166', NO ISSUES										
Operations Summary BUILD CURVE 6212' - 8037'. TOO H, P/U BHA # 4, TIH, BUILD CURVE 8037' - 8166' N/S 598.6, E/W -72.7, AHEAD 15', LEFT 17'. BRN 2.6 DISTANCE FROM UNIVERSITY 09 #1803H: 83' DISTANCE FROM UNIVERSITY 09 #1826H: 678' DISTANCE FROM UNIVERSITY 09 #1827H: 365' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS					Planned Operations LAND CURVE, DRILL LATERAL					
Start MD (ftKB) 7,629		End MD (ftKB) 8,166		Depth Progress (ft) 537		Drilling Time (hr) 10.00		Avg ROP (ft/hr) 53.7		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	11:00	6.00	7,629	8,037	ROTATE/SLIDE 7629' - 8037', 408' AT 68' FPH ROTATE DRILL, 64' IN 1 HRS, 64' FPH SLIDE DRILL, 344, IN 5 HRS, 68.8 FPH 15% ROTATE, 85% SLIDE FULL RETURNS. KOP @ 7132'	PROD	CURVE	DRILL	DRILL W/ MUD	
11:00	12:30	1.50	8,037	8,037	CIRCULATE BOTTOMS UP,CHECK FLOW,PUMP SLUG	PROD	CURVE	DRILL	COND MUD & CIRC	
12:30	16:30	4.00	8,037	8,037	TOOH F 8037' - 94'. PULLED ROT. HEAD AND INSTALL TRIP NIPPLE @ 6900'.	PROD	CURVE	DRILL	TRIPS	
16:30	19:30	3.00	8,037	8,037	C/O BHA,PU BHA #4, 7/8 LOBE, 5.0 STAGE, .28 RPG, FIXED @ 1.75° W/PDC LOGIC PLT 613 D6. ORIENT AND TEST OK.	PROD	CURVE	DRILL	P/U & L/D BHA	
19:30	00:00	4.50	8,037	8,037	TIH W/ BHA #4, FILL PIPE EVERY 30 STDs, INSTALL ROTATING HEAD AT SHOE	PROD	CURVE	DRILL	TRIPS	
00:00	01:00	1.00	8,037	8,037	RETAKE SURVEYS F/ 7916 T/8037, ALL SURVERYS MATCHED BHA #3	PROD	CURVE	DRILL	DIRECTIONAL WORK	
01:00	05:00	4.00	8,037	8,166	ROTATE/SLIDE 8037' - 8166', 129' AT 33' FPH ROTATE DRILL, 67' IN 1.5 HRS, 45' FPH SLIDE DRILL, 62', IN 2.5 HRS, 31 FPH 52% ROTATE, 48% SLIDE FULL RETURNS. KOP @ 7132'	PROD	CURVE	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/4/2015
Report Number: 15
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 9
End MD (ftKB): 8,950
Depth Progress (ft): 784
Planned VS (ft): 0
Current VS (ft): 1,318
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time DRILLING AHEAD AT 8950 ft, NO ISSUES				
Operations Summary BUILD CURVE 6212' - 8037', TOO H, P/U BHA # 4, TIH, DRILL 8037' - 8950' LANDED CURVE AT 8260 ft, 8 ft ABOVE AND 17 ft LEFT OF THE TARGET LINE. at 20:30 hrs N/S 1318.41, E/W -59.95, AHEAD 6.0', LEFT 8' DISTANCE FROM UNIVERSITY 09 #1803H: 518' DISTANCE FROM UNIVERSITY 09 #1826H: 721' DISTANCE FROM UNIVERSITY 09 #1827H: 362' NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS			Planned Operations DRILL LATERAL AND TAKE SURVEYS, PROJECTED TD AT 14894 ft	
Start MD (ftKB) 8,166	End MD (ftKB) 8,950	Depth Progress (ft) 784	Drilling Time (hr) 10.50	Avg ROP (ft/hr) 74.7

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	05:30	0.50	8,166	8,180	ROTATE/SLIDE 8166' - 8180', 14' AT 28' FPH ROTATE DRILL, 14' IN .5 HRS, 28' FPH SLIDE DRILL, 0', IN 0 HRS, 0 FPH 100% ROTATE, 0% SLIDE FULL RETURNS. KOP @ 7132'	PROD	CURVE	DRILL	DRILL W/ MUD	
05:30	06:00	0.50	8,180	8,180	TROUBLESHOOT MWD, GAMMA NOT WORKING	PROD	CURVE	DRILL	DIRECTIONAL WORK	Yes
06:00	07:00	1.00	8,180	8,180	CIRCULATE BOTTOMS UP, CHECK FLOW, PUMP SLUG	PROD	CURVE	DRILL	COND MUD & CIRC	Yes
07:00	10:30	3.50	8,180	8,180	TOOH FOR MWD, F 8180' - 94'. PULLED ROT. HEAD AND INSTALL TRIP NIPPLE @ 6900'.	PROD	CURVE	DRILL	TRIPS	Yes
10:30	12:00	1.50	8,180	8,180	DRAIN MOTOR, BREAK BIT, C/O MWD, RERUN MOTOR & BIT, BHA #4, 7/8 LOBE, 5.0 STAGE, .28 RPG, FIXED @ 1.75" W/PDC LOGIC PLT 613 D6. ORIENT AND TEST OK.	PROD	CURVE	DRILL	P/U & L/D BHA	Yes
12:00	15:00	3.00	8,180	8,180	TIH W/ BHA #4, F 94' - 6100' FILL PIPE EVERY 30 STDS, INSTALL ROTATING HEAD AT SHOE	PROD	CURVE	DRILL	TRIPS	Yes
15:00	17:00	2.00	8,180	8,180	CUT & SLIP 150' DRILLING LINE	PROD	CURVE	DRILL	CUT SLIP & DRILL LINE	Yes
17:00	18:00	1.00	8,180	8,180	TIH W/BHA #4, FILL PIPE EVERY 30 STDS, F/6100' T/8090'	PROD	CURVE	DRILL	TRIPS	Yes
18:00	19:00	1.00	8,180	8,180	RELOG GAMMA F/8090 ft - 8180 ft	PROD	CURVE	DRILL	DIRECTIONAL WORK	Yes
19:00	05:00	10.00	8,180	8,950	ROTATE/SLIDE DRILL FROM 8180 ft - 8950 ft, 770 ft, AT 77 fph ROTATE DRILL: 728' IN 7.5 HOURS, 98 FPH AVERAGE ROP SLIDE DRILL: 42' IN 2.5 HOURS, 28 FPH AVERAGE ROP 94% ROTATE, 6% SLIDE FULL RETURNS KOP @ 7132', LANDED CURVE AT 8260 ft, 8 ft ABOVE AND 17 ft LEFT OF THE TARGET LINE. AT 20:30 hrs	PROD	LAT	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/5/2015
Report Number: 16
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 10
End MD (ftKB): 11,117
Depth Progress (ft): 2,167
Planned VS (ft): 0
Current VS (ft): 3,483
AFE Number: 1420104

API 42383392880000		Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY		Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 11/23/2014		Total Depth Date 2/7/2015		Rig Release Date 2/10/2015		Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,927		
Status at Report Time DRILLING LATERAL AT 11117 ft, NO ISSUES										
Operations Summary DRILL 8950 ft - 11117 ft N/S 3483 ft , E/W -17.00 ft, BELOW 13.00 ft , RIGHT 11 ft DISTANCE FROM UNIVERSITY 09 #1803H: 2589 ft DISTANCE FROM UNIVERSITY 09 #1826H: 719 ft DISTANCE FROM UNIVERSITY 09 #1827H: 366 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS					Planned Operations DRILL LATERAL AND TAKE SURVEYS, PROJECTED TD AT 14894 ft					
Start MD (ftKB) 8,950		End MD (ftKB) 11,117		Depth Progress (ft) 2,167		Drilling Time (hr) 24.00		Avg ROP (ft/hr) 90.3		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	05:00	24.00	8,950	11,117	ROTATE/SLIDE DRILL FROM 8950ft - 11117ft, 2167 ft, AT 92 fph ROTATE DRILL: 1945 IN 16.0 HOURS, 122.0 FPH AVERAGE ROP SLIDE DRILL: 222' IN 8.0 HOURS, 28.0 FPH AVERAGE ROP 90% ROTATE, 10% SLIDE FULL RETURNS	PROD	LAT	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/6/2015
Report Number: 17
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 11
End MD (ftKB): 13,008
Depth Progress (ft): 1,891
Planned VS (ft): 0
Current VS (ft): 5,467
AFE Number: 1420104

API 42383392880000		Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY		Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 11/23/2014		Total Depth Date 2/7/2015		Rig Release Date 2/10/2015		Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,927		
Status at Report Time DRILLING LATERAL AT 13008 ft, NO ISSUES										
Operations Summary DRILL 11117 ft - 13008 ft N/S 5371 ft , E/W -9.2 ft, BELOW 7.0 ft , LEFT 2.0 ft DISTANCE FROM UNIVERSITY 09 #1803H: 4551 ft DISTANCE FROM UNIVERSITY 09 #1826H: 716 ft DISTANCE FROM UNIVERSITY 09 #1827H: 329 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS					Planned Operations DRILL LATERAL AND TAKE SURVEYS, PROJECTED TD AT 14894 ft					
Start MD (ftKB) 11,117		End MD (ftKB) 13,008		Depth Progress (ft) 1,891		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 80.5		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	05:30	0.50	11,117	11,117	COMPANY MAN GENERATOR WENT DOWN, WILL C/O TODAY	PROD	LAT	DRILL	3rd PARTY EQUIPMENT REPAIR	Yes
05:30	05:00	23.50	11,117	13,008	ROTATE/SLIDE DRILL FROM 11117 ft -13008ft, 1891ft, AT 81 fph ROTATE DRILL:1727 ft IN 16.5 HOURS,105 FPH AVERAGE ROP SLIDE DRILL: 164 ft IN 7.0 HOURS, 24.0 FPH AVERAGE ROP 92% ROTATE, 8% SLIDE FULL RETURNS	PROD	LAT	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/7/2015
Report Number: 18
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 12
End MD (ftKB): 14,282
Depth Progress (ft): 1,274
Planned VS (ft): 0
Current VS (ft): 6,698
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time DRILLING LATERAL AT 14282 ft, NO ISSUES				
Operations Summary DRILL 13008 ft - 14282 ft MD 14186 ft, N/S 6698 ft, E/W 2.7 ft, BELOW 13.0 ft, LEFT 4.0 ft DISTANCE FROM UNIVERSITY 09 #1803H: 5834 ft DISTANCE FROM UNIVERSITY 09 #1826H: 714 ft DISTANCE FROM UNIVERSITY 09 #1827H: 320 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS			Planned Operations DRILL LATERAL AND TAKE SURVEYS, PROJECTED TD AT 14894 ft	
Start MD (ftKB) 13,008	End MD (ftKB) 14,282	Depth Progress (ft) 1,274	Drilling Time (hr) 20.50	Avg ROP (ft/hr) 62.1

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	08:00	3.00	13,008	13,314	ROTATE/SLIDE DRILL FROM 13008ft- 13314ft, 306 ft, AT 88 fph ROTATE DRILL:296 ft IN 2.5 HOURS,119 FPH AVERAGE ROP SLIDE DRILL: 10 ft IN 0.5 HOURS, 20 FPH AVERAGE ROP 97% ROTATE, 3% SLIDE FULL RETURNS	PROD	LAT	DRILL	DRILL W/ MUD	
08:00	11:30	3.50	13,314	13,314	COMPANY MAN GENERATOR WENT DOWN, CIRC. AND WORK PIPE WHILE WAITING ON ANOTHER GENERATOR	PROD	LAT	DRILL	3rd PARTY EQUIPMENT REPAIR	Yes
11:30	05:00	17.50	13,314	14,282	ROTATE/SLIDE DRILL FROM 13314ft - 14282ft, 968ft, AT129 fph ROTATE DRILL: 803 ft IN 8.5 HOURS,95 FPH AVERAGE ROP SLIDE DRILL: 165 ft IN 9.0 HOURS, 19 FPH AVERAGE ROP 83% ROTATE, 17% SLIDE FULL RETURNS	PROD	LAT	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/8/2015
Report Number: 19
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 13
End MD (ftKB): 14,894
Depth Progress (ft): 612
Planned VS (ft): 0
Current VS (ft): 7,349
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time
LAYING DOWN STRING AT 7500 ft, NO ISSUES

Operations Summary DRILL 14282 ft - 14894 ft, TD AT 14894 ft, CIRC. 5 BOTTOMS UP, TOO H LAYING DOWN STRING MD 14838 ft, N/S 7349 ft, E/W -10.7 ft, ABOVE 12 ft, LEFT 24.0 ft DISTANCE FROM UNIVERSITY 09 #1803H: 6480 ft DISTANCE FROM UNIVERSITY 09 #1826H: 740 ft DISTANCE FROM UNIVERSITY 09 #1827H: 342 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS	Planned Operations FINISH LAYING DOWN STRING, RUN 14894 ft 5.5 CASING, CEMENT SAME
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Start MD (ftKB) 14,282	End MD (ftKB) 14,894	Depth Progress (ft) 612	Drilling Time (hr) 10.00	Avg ROP (ft/hr) 61.2
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Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	15:00	10.00	14,282	14,894	ROTATE/SLIDE DRILL FROM 14282ft - 14894ft, 612ft, AT 62 FPH ROTATE DRILL: 537 ft IN 5.5 HOURS, 98 FPH AVERAGE ROP SLIDE DRILL: 75 ft IN 4.5 HOURS, 17 FPH AVERAGE ROP 88% ROTATE, 12% SLIDE FULL RETURNS REACHED TD AT 14,894 ft, 12.0 ft ABOVE AND 24.0 ft LEFT OF THE TARGET LINE.	PROD	LAT	DRILL	DRILL W/ MUD	
15:00	20:30	5.50	14,894	14,894	PERFORMED CLEAN UP CYCLE 1ST BOTTOMS UP, 80% COVERAGE TORQ 6 K 2ND BOTTOMS UP, 60% COVERAGE TORQ 5 K 3RD BOTTOMS UP, 40% COVERAGE TORQ 4 K 4TH BOTTOMS UP, 30% COVERAGE TORQ 3 K 5 TH BOTTOMS UP, 0% COVERAGE TORQ 3 K	PROD	LAT	DRILL	COND MUD & CIRC	
20:30	05:00	8.50	14,894	14,894	FLOW CHECK, HOLE STATIC, PUMP SLUG PULL 8 STDS, TOO H LAYING DOWN STRING FROM 14089 TO 7500'. HOLE TAKING PROPER FILL AND NO DRAG	PROD	LAT	DRILL	P/U & L/D BHA	



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AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/9/2015
Report Number: 20
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 14
End MD (ftKB): 14,894
Depth Progress (ft): 0
Planned VS (ft): 0
Current VS (ft): 7,350
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927			

Status at Report Time RUNNING 5.5 in CSG AT 7800 ft, NO ISSUES							
Operations Summary TOOH LAYING DOWN STRING, RUNNING 325 JNTS 5.5 P-110 CSG MD 14838 ft, N/S 7349 ft, E/W -10.7 ft, ABOVE 12 ft, LEFT 24.0 ft DISTANCE FROM UNIVERSITY 09 #1803H: 6480 ft DISTANCE FROM UNIVERSITY 09 #1826H: 740 ft DISTANCE FROM UNIVERSITY 09 #1827H: 342 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS				Planned Operations RUN 14890 ft 5.5 P-110 CASING, CEMENT SAME, SET SLIPS, NIPPLE DOWN, CLEAN TANKS, RELEASE RIG			
Start MD (ftKB) 14,894	End MD (ftKB) 14,894	Depth Progress (ft) 0	Drilling Time (hr)	Avg ROP (ft/hr)			

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	15:00	10.00	14,894	14,894	LAY DOWN STRING 7500 ft - 100 ft NOTIFIED RCC AT 12:00 HRS OF INTENT TO CEMENT TALKED TO SHERONDA	PROD	LAT	DRILL	P/U & L/D BHA	
15:00	16:30	1.50	14,894	14,894	LAI D OUT BHA No. 5 FROM 100 ft TO SURFACE. GRADED 8.750 in BIT No.5 MANUFACTURER MODEL PDC LOGIC 613 D6.	PROD	LAT	DRILL	P/U & L/D BHA	
16:30	19:30	3.00	14,894	14,894	RUN 15 STDS IN HOLE, LAY DOWN SAME, PULL WEAR BUSHING, CLEAN FLOOR FOR RUNNING CSG	PROD	LAT	DRILL	P/U & L/D BHA	
19:30	20:00	0.50	14,894	14,894	SAFETY MEETING W/PIPE PRO AND ENSIGN CREW	PROD	PROD	CSG/CEMENT	RUN CASING & CEMENT	
20:00	05:00	9.00	14,894	14,894	RIGGED UP PIPE PROS AND HELD PJSM PICKED UP SHOETRACK AND RUN (171jts) OF 5.5in GRADE P-110 17.00ppf LTC CONNECTION CASING. WEATHERFORD SPIRALGLIDER (5.5 x 8.0) CENTRALIZER PLACEMENT: ONE PER THREE JOINTS IN LATERAL FROM 14894ft TO 8600ft, THREE CENTRALIZERS PER TWO JOINTS IN THE CURVE AND ONE PER THREE JOINTS IN THE VERTICAL FROM 7100 TO 500'	PROD	PROD	CSG/CEMENT	RUN CASING & CEMENT	



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 1828H
AEPB WELL NO. 38

Report End Date: 2/10/2015
Report Number: 21
Rig: ENSIGN, 784
Projected Days (days): 18
Drilling Days: 15
End MD (ftKB): 14,894
Depth Progress (ft): 0
Planned VS (ft): 0
Current VS (ft): 7,350
AFE Number: 1420104

API 42383392880000	Surface Legal Location SECTION 18, BLOCK 9, UNIVERSITY LANDS SURVEY	Latitude 31.2674555600	Longitude -101.5750361000	Orig KB El... 2,744.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 11/23/2014	Total Depth Date 2/7/2015	Rig Release Date 2/10/2015	Target Formation WOLFCAMP A1	Proposed TD (ftKB) 14,927

Status at Report Time RIGGING DOWN FOR RIG MOVE, NO ISSUES				
Operations Summary RAN A TOTAL 325 JNTS 5.5 P-110 CSG, CEMENT SAME, N/D STACK, SET SLIPS AND CAP, CLEAN TANKS MD 14838 ft, N/S 7349 ft, E/W -10.7 ft, ABOVE 12 ft, LEFT 24.0 ft DISTANCE FROM UNIVERSITY 09 #1803H: 6480 ft DISTANCE FROM UNIVERSITY 09 #1826H: 740 ft DISTANCE FROM UNIVERSITY 09 #1827H: 342 ft NEXT WELL: UNIVERSITY 49 813HS (MOVE). BIG RIG SPUD DATE EST: 1/27/15 0100 HRS			Planned Operations CLEAN TANKS, RELEASED RIG AT 0500 hrs TO UNIVERSITY 49-813HS, RIG DOWN	
Start MD (ftKB) 14,894	End MD (ftKB) 14,894	Depth Progress (ft) 0	Drilling Time (hr)	Avg ROP (ft/hr)

Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	11:30	6.50	14,894	14,894	FINISH RUNNING A TOTAL (325jts) = 14,894 ft OF 5.5in GRADE P-110 17.00ppf LTC CONNECTION CASING. WEATHERFORD SPIRALGLIDER (5.5 x 8.0) CENTRALIZER PLACEMENT: ONE PER THREE JOINTS IN LATERAL FROM 14894ft TO 8600ft, THREE CENTRALIZERS PER TWO JOINTS IN THE CURVE AND ONE PER THREE JOINTS IN THE VERTICAL FROM 7100 TO 200', TAGGED BOTTOM AT 14.894 ft LAID DOWN TAG JOINT AND pu 22' JOINT TO SPACE OUT. DAVIS LYNCH SHOE AT 14.889 ft DAVIS LYNCH FLOAT COLLAR AT 14.839 ft TRICAN BPS SET AT 14.793 ft	PROD	PROD	CSG/CEMENT	RUN CASING	
11:30	13:00	1.50	14,894	14,894	RIG DOWN CASING CREW, R/U UNIVERSAL CEMENT HEAD AND PERCULATION LINES	PROD	PROD	CSG/CEMENT	RUN CASING	
13:00	16:00	3.00	14,894	14,894	BURST FLOTATION COLLAR WITH RIG PUMPS AT 2079 psi, CIRC. 1.5 CASING CAPACITY, DROPPED YELLOW PLUG (1500 psi) AND DISPLACED TO FLOAT COLLAR. PLUG BURST AT 955 psi	PROD	PROD	CSG/CEMENT	RUN CASING	
16:00	17:00	1.00	14,894	14,894	SAFETY MEETING W/UNIVERSAL. RIG UP HEAD AND TEST LINES TO 5000 psi	PROD	PROD	CSG/CEMENT	RUN CASING	
17:00	20:00	3.00	14,894	14,894	UNIVERSAL CEMENTING: PUMPED 5.5 in CEMENT JOB, PUMPED 10 bbl FRESH WATER SPACER, 50 BBLs LCM-65 MUD SPACER (9.5 ppg) LEAD=735 SACKS (251 bbls) MAXLITE, 11.3 ppg, TAIL=1805 SACKS (229 bbls) PREMIUM 50/50 POZ, 14.38 ppg, 6 bbls/min PUMP RATE, DISPLACED WITH 342 bbls OF TREATED WATER PER PROGRAM, BUMPED PLUG WITH 342 bbls, PUMP RATE 6 bbls/min, SLOWED RATE TO 3bbls/min FOR LAST 20 bbls, PRESSURE BEFORE BUMPING PLUG WAS 2800psi, HELD3200 psi FOR 5 min, BLEED OFF PRESSURE, BLEED 3bbls BACK, FLOATS HELD. ESTIMATED TOP OF LEAD AT 300 ft, ESTIMATED TOP OF TAIL AT 8717 ft BUMP PLUG AT 20:00 HRS, NO CEMENT OR SPACER TO SURFACE	PROD	PROD	CSG/CEMENT	RUN CASING	
20:00	00:00	4.00	14,894	14,894	R/D CEMENTERS, FLUSH STACK W/ SUGAR WATER, TRANSFERING O/B MUD TO FRAC TANKS, R/D POLLUTION PAN W/CAN-OK.	PROD	PROD	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD	
00:00	02:00	2.00	14,894	14,894	NIPPLE DOWN STACK, USING YELLOWJACKET SERVICES CHOKE LINES, ACCUMLATOR LINES, FLOW LINE, P/U STACK TO INSTALL SLIPS	PROD	PROD	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD	
02:00	02:30	0.50	14,894	14,894	SET GE CASING SLIPS (SN: PO 2100-2118) SET WITH 140 kips OVERPULL.TESTED CASING SLIPS TO 5200psi/15min GE TECH CHRIS WEICK	PROD	PROD	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD	
02:30	05:00	2.50	14,894	14,894	CUT CASING AND REMOVED CUT CASING. INSTALLED GE WELLHEAD CAP (SN: 200G4549) WITH PRESSURE GUAGE. RELEASED RIG FROM UNIVERSITY 09-1828H, TO UNIVERSITY 49-813HS, AT 0500hrs ON 02/10/2015.	PROD	PROD	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD	