



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/16/2014
Report Number: 1
Rig: INTEGRITY, 2
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 603
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time
CEMENTING

Operations Summary
SKID RIG R/U SPUD WELL AT 1300 DRILL TO TD 713' RKB CIRCULATE TOO H RUN 14 JTS 13 3/8"
CASING SET AT 713' R/U CEMENTERS RUN CEMENT

NO EHS ISSUES

NEXT WELL UNIVERSITY 09 #1816H OFF PAD

Planned Operations
FINISH CEMENT R/D MOVE RIG R/U SPUD NEW WELL

Start MD (ftKB) 110	End MD (ftKB) 713	Depth Progress (ft) 603	Drilling Time (hr) 7.00	Avg ROP (ft/hr) 86.1
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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	12:00	2.00	110	110	R/U	SURF	VERT	DRILL	RIG UP/RIG DOWN	
12:00	12:30	0.50	110	110	M/U BHA	SURF	VERT	DRILL	P/U & L/D BHA	
12:30	17:30	5.00	110	606	SPUD AT 1230	SURF	VERT	DRILL	DRILL W/ AIR	
17:30	18:30	1.00	606	606	WORK ON COMPRESSOR	SURF	VERT	DRILL	REPAIR RIG	
18:30	19:30	1.00	606	713	TD 1930	SURF	VERT	DRILL	DRILL W/ AIR	
19:30	20:00	0.50	713	713	BLOW DOWN HOLE	SURF	VERT	DRILL	COND MUD & CIRC	
20:00	20:30	0.50	713	713	SURVEY AT TD= .75°	SURF	VERT	DRILL	DEVIATION SURVEY	
20:30	22:30	2.00	713	713	TOOH	SURF	VERT	DRILL	TRIPS	
22:30	23:30	1.00	713	713	R/U FOR CASING	SURF	VERT	DRILL	RIG UP/RIG DOWN	
23:30	03:30	4.00	713	713	14 JTS 13 3/8" CASING	SURF	VERT	DRILL	RUN CASING	
03:30	04:00	0.50	713	713	R/U FOR CEMENT	SURF	VERT	DRILL	RIG UP/RIG DOWN	
04:00	05:00	1.00	713	713	PUMP CEMENT W/ UNIVERSAL	SURF	VERT	DRILL	RUN CEMENT	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/16/2014
Report Number: 2
Rig: INTEGRITY, 2
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time

NEW WELL

Operations Summary

FINISH CEMENT BUMP PLUG FLOAT HELD NO RETURNS TO SURFACE. WAIT ON VES TEMP LOG

CEMENT AT 190' R/D & MOVE

Planned Operations

NEW WELL

Start MD (ftKB) 713	End MD (ftKB) 713	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
05:00	05:30	0.50	713	713	NO RETURNS				RUN CEMENT	
05:30	09:30	4.00	713	713	WAIT ON TEMP LOG				WAIT ON CEMENT	
09:30	10:30	1.00	713	713	TEMP LOG & GYRO CEMENT AT 220' RKB				DEVIATION SURVEY	
10:30	11:00	0.50	713	713	R/D RIG RELEASE 1100				RIG UP/RIG DOWN	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/23/2014
Report Number: 3
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014			Total Depth Date			Rig Release Date			Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913		
Status at Report Time WAITING ON DAYLIGHT															
Operations Summary CLEANED MUD TANKS. RIGGING DOWN FOR RIG MOVE & PREPAIRING TO SQUAT SUB, 5% RIGGED DOWN, 5% MOVED								Planned Operations RIG DOWN, MOVE RIG FROM UNIVESITY 47 #0806H TO UNIVESITY 09 #0806H							
Start MD (ftKB) 713			End MD (ftKB) 713			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	
17:00	05:00	12.00	713	713	RIGGING DOWN , CLEANING MUD PITS, PREPAIRING TO SQUAT SUB, MOVED DRILL PIPE TO NEW LOCATION FOR PIPE INSPECTION, 5% RIGGED DOWN, 5% MOVED, WAITING ON DAYLIGHT				MOB	MOB	MOB	RIG UP/RIG DOWN			
Formations															
Formation Name					Prog Depth Top SS (ft)				Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)			
SALADO															
YATES															
SEVEN RIVERS									2,007			2,005.5			
QUEEN															
GRAYBURG															
SAN ANDRES									3,389			3,384.2			
SPRABERRY UPPER									6,131			6,123.0			
SPRABERRY LOWER									6,704			6,695.9			
JO-MILL SAND									7,001			6,992.9			
DEAN									7,523			7,514.9			
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D									8,806			8,797.8			
CISCO									9,610			9,601.6			
CLINE									9,808			9,799.6			
STRAWN									10,090			10,081.6			
ATOKA									10,396			10,387.5			
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/24/2014
Report Number: 4
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

AP: 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A		Proposed TD (ftKB) 14,913					
Status at Report Time WAITING ON DAYLIGHT										
Operations Summary WAITED ON DAYLIGHT UNTIL 7:00. RIGGED DOWN AND STARTED MOVING WITH 2-M TRUCKING TO THE UNIVERSITY 09 0806H. 10 HAUL, 1 POLE, 2 GEN TRUCKS, 3 CRANES, 2 FORKLIFTS, 80% RIGGED DOWN, 40% MOVED AND 5% RIGGED UP. WAITING ON DAYLIGHT				Planned Operations CONTINUE RIGGING DOWN AND MOVING TO THE UNIVERSITY 09 0806H						
NEXT WELL: UNIVERSITY 09 0804H, SKID										
Start MD (ftKB) 713		End MD (ftKB) 713		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	07:00	2.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN	
07:00	19:00	12.00	713	713	RIG DOWN W/CRANES AND BEGIN MOVING TO THE UNIVERSITY 09 0806H. 80% RIGGED DOWN, 40% MOVED, AND 5% RIGGED UP.	MOB	MOB	MOB	RIG UP/RIG DOWN	
19:00	05:00	10.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN	
Formations										
Formation Name					Prog Depth Top SS (ft)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	
SALADO										
YATES										
SEVEN RIVERS							2,007		2,005.5	
QUEEN										
GRAYBURG										
SAN ANDRES							3,389		3,384.2	
SPRABERRY UPPER							6,131		6,123.0	
SPRABERRY LOWER							6,704		6,695.9	
JO-MILL SAND							7,001		6,992.9	
DEAN							7,523		7,514.9	
WOLFCAMP A										
WOLFCAMP B										
WOLFCAMP C										
WOLFCAMP D							8,806		8,797.8	
CISCO							9,610		9,601.6	
CLINE							9,808		9,799.6	
STRAWN							10,090		10,081.6	
ATOKA							10,396		10,387.5	
BARNETT										
WOODFORD										
DEVONIAN										
ELLENBURGER										



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/25/2014
Report Number: 5
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time

WAITING ON DAYLIGHT

Operations Summary

WAITED ON DAYLIGHT UNTIL 7:00. CONTINUED RIGGING DOWN AND MOVING WITH 2-M TRUCKING TO THE UNIVERSITY 09 0806H. 10 HAUL, 1 POLE, 2 TANDEM TRUCKS, 3 CRANES, 2 FORKLIFTS, 100% RIGGED DOWN, 90% MOVED AND 40% RIGGED UP. WAITING ON DAYLIGHT

Planned Operations

FINISH MOVING AND CONTINUE RIGGING UP ON THE UNIVERSITY 09 0806H

NEXT WELL: UNIVERSITY 09 0804H, SKID

Start MD (ftKB) 713	End MD (ftKB) 713	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
05:00	07:00	2.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN	
07:00	19:00	12.00	713	713	CONTINUE RIGGING DOWN ON THE UNIVERSITY 47 0806H. MOVING, AND RIGGING UP ON THE UNIVERSITY 09 0806H. 100% RIGGED DOWN, 90% MOVED AND 40% RIGGED UP. HAD 3 CRANES, 2 FORKLIFTS, 2 TANDEM, 1 POLE TRUCK, AND 10 HAUL TRUCKS.	MOB	MOB	MOB	RIG UP/RIG DOWN	
19:00	05:00	10.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H AEPB WELL NO. 22

Report End Date: 10/26/2014
Report Number: 6
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913					
Status at Report Time WAITING ON DAYLIGHT															
Operations Summary WAITED ON DAYLIGHT UNTIL 7:00. CONTINUED MOVING AND RIGGING UP WITH 2-M TRUCKING ON THE UNIVERSITY 09 0806H. 8 HAUL, 1 POLE TRUCK, 1 TANDEM, 2 CRANES, 1 FORKLIFT, 100% MOVED AND 70% RIGGED UP. DERRICK UP AT 16:30. WAITING ON DAYLIGHT NEXT WELL: UNIVERSITY 09 0804H, SKID								Planned Operations WAIT ON DAYLIGHT. CONTINUE RIGGING UP ON THE UNIVERSITY 09 0806H							
Start MD (ftKB) 713		End MD (ftKB) 713		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	07:00	2.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN						
07:00	19:00	12.00	713	713	FINISH MOVING OFF OF THE UNIVERSITY 47 0806H AND CONTINUE RIGGING UP ON THE UNIVERSITY 09 0806H. 100% MOVED AND 70% RIGGED UP.RAISED DERRICK AT 16:30. HAD 8 HAUL TRUCKS, 1 TANDEM, 1 POLE TRUCK, 2 CRANES, AND 1 FORKLIFT.	MOB	MOB	MOB	RIG UP/RIG DOWN						
19:00	05:00	10.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN						
Formations															
Formation Name					Prog Depth Top SS (ft)		Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)					
SALADO															
YATES															
SEVEN RIVERS							2,007			2,005.5					
QUEEN															
GRAYBURG															
SAN ANDRES							3,389			3,384.2					
SPRABERRY UPPER							6,131			6,123.0					
SPRABERRY LOWER							6,704			6,695.9					
JO-MILL SAND							7,001			6,992.9					
DEAN							7,523			7,514.9					
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D							8,806			8,797.8					
CISCO							9,610			9,601.6					
CLINE							9,808			9,799.6					
STRAWN							10,090			10,081.6					
ATOKA							10,396			10,387.5					
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/27/2014
Report Number: 7
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time
RIGGING UP RIG & EQUIP.

Operations Summary
WAITED ON DAYLIGHT UNTIL 7:00. CONTINUED RIGGING UP WITH 2-M TRUCKING ON THE UNIVERSITY 09 0806H., 1 TANDEM, 1 CRANE, 1 FORKLIFT, 100% MOVED AND 90% RIGGED UP

Planned Operations
FINISH RIGGING UP ON THE UNIVERSITY 09 0806H, NIPPLE UP & TEST BOPS, DRILL INTERMEDIATE TO KOP @ 7267'

NEXT WELL: UNIVERSITY 09 0804H, SKID

Start MD (ftKB) 713	End MD (ftKB)	Depth Progress (ft) 713	Drilling Time (hr) 0	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
05:00	07:00	2.00	713	713	WAIT ON DAYLIGHT	MOB	MOB	MOB	RIG UP/RIG DOWN	
07:00	14:00	7.00	713	713	RIG UP WITH 2M TRUCKING ON THE UNIVERSITY 09 0806H (HAD 1 CRANE, 1 TANDEM, AND 1 FORKLIFT. TANDEM, FORKLIFT, AND CRANE GONE @ 14:00).	MOB	MOB	MOB	RIG UP/RIG DOWN	
14:00	05:00	15.00	713	713	CONTINUE RIGGING UP ELECTRIC & HYD LINES, INSTALL SHAKER SCREENS, FILL UP LINE, SAVER SUB, TEST TOP DRIVE, RIG UP FLOOR, ETC.	MOB	MOB	MOB	RIG UP/RIG DOWN	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN LLC UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H AEPB WELL NO. 22

Report End Date: 10/28/2014
Report Number: 8
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time

NIPPLING UP BOPS WITH YELLOWJACKET

Operations Summary

CONTINUED RIGGING UP ON THE UNIVERSITY 09 0806H.100% MOVED AND 97% RIGGED UP

Planned Operations

FINISH RIGGING UP ON THE UNIVERSITY 09 0806H, NIPPLE UP & TEST BOPS, DRILL
INTERMEDIATE TO KOP @ 7267'

NEXT WELL: UNIVERSITY 09 0804H, SKID

Start MD (ftKB) 713	End MD (ftKB) 713	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
05:00	11:00	6.00	713	713	HOOK UP HYDRAULIC LINES AND RUN ELECTRICAL WIRES	MOB	MOB	MOB	RIG UP/RIG DOWN	
11:00	13:00	2.00	713	713	SPOOL UP DRAW WORKS AND UNPIN BLOCKS	MOB	MOB	MOB	RIG UP/RIG DOWN	
13:00	17:00	4.00	713	713	HOOK UP BLEED OFF LINE, FILL UP LINE, AND MUD BUCKET	MOB	MOB	MOB	RIG UP/RIG DOWN	
17:00	20:00	3.00	713	713	ELECTRICIAN TROUBLE SHOOT ELECTRICAL & REPAIR SAME ON TOP DRIVE WHILE RIGGING UP	MOB	MOB	MOB	RIG UP/RIG DOWN	
20:00	02:00	6.00	713	713	CONTINUE RIGGING UP	MOB	MOB	MOB	RIG UP/RIG DOWN	
02:00	05:00	3.00	713	713	NIPPLE UP BOPS	MOB	MOB	MOB	NIPPLE UP B.O.P./WELLHEAD	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/29/2014
Report Number: 9
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary				
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913

Status at Report Time
PICKING UP BHA

Operations Summary
CONTINUED RIGGING UP ON THE UNIVERSITY 09 0806H. NIPPLE UP & TEST BOPS, INSTALL WEAR BUSHING, PICK UP BHA

Planned Operations
DRILL INTERMEDIATE TO 6400'

NEXT WELL: UNIVERSITY 09 0804H, SKID

Start MD (ftKB) 713	End MD (ftKB) 713	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
05:00	07:00	2.00	713	713	NIPPLE UP BOPS	MOB	MOB	MOB	NIPPLE UP B.O.P./WELLHEAD	
07:00	08:00	1.00	713	713	RIG UP YELLOW JACKET BOP TESTERS	MOB	MOB	MOB	TEST B.O.P	
08:00	12:00	4.00	713	713	TESTING BOPS AND CHOKE VALVES, 300 LOW / 5000 HIGH, HYDRILL 300 LOW / 3500 HIGH, FLOOR VALVES AND VALVES BACK TO PUMPS, 300 LOW, 4000 HIGH, TEST CASING, 1000 PSI FOR 30 MIN, ALL (OK) RIG DOWN TESTERS.	MOB	MOB	MOB	TEST B.O.P	
12:00	16:30	4.50	713	713	HOOK UP FLOW LINE, CENTER STACK, HOOK UP KILL LINE, INSTALL MOUSE HOLE	MOB	MOB	MOB	RIG UP/RIG DOWN	
16:30	18:00	1.50	713	713	CLEAN & CLEAR RIG FLOOR & DOG HOUSE	MOB	MOB	MOB	RIG UP/RIG DOWN	
18:00	22:30	4.50	713	713	CONTINUE RIGGING UP CHOKE, RIG FLOOR SENSORS, MOVE BHA TO PIPE RACKS, STRAP SAME, INSTALL WEAR BUSHING	MOB	MOB	MOB	RIG UP/RIG DOWN	
22:30	05:00	6.50	713	713	PICK UP BHA # 1, MOTOR, ADJUST TO 1.72° BEND, STAB, MONELS, SCRIBE, INSTALL MWD, CONT. PICKING UP 8" & 6" DRILL COLLARS + 18 JTS HW/DP	MOB	MOB	MOB	P/U & L/D BHA	

Formations			
Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/30/2014
Report Number: 10
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 1
End MD (ftKB): 2,294
Depth Progress (ft): 1,551
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913					
Status at Report Time DRILLING TANGENT @ 2294'															
Operations Summary CONTINUE TO PICK UP BHA. TIGHTEN FLOWLINE, DISPLACE WITH OBM, DRILL CEMENT CEMENT AND FLOAT EQUIPMENT 652' TO 743', ROTATE AND SLIDE 743' TO 2294'								Planned Operations DRILL INTERMEDIATE TO 6400'							
8' LOW / 6' LEFT 1st WELL ON PAD NEXT WELL: UNIVERSITY 09 0804H, SKID															
Start MD (ftKB) 743		End MD (ftKB) 2,294		Depth Progress (ft) 1,551				Drilling Time (hr) 19.50		Avg ROP (ft/hr) 79.5					
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	743	743	PICK UP 3 - 6' DC'S, 18 JOINTS 5" HVWT DP, TAGGED UP AT 652'.			MOB	MOB	MOB	P/U & L/D BHA				
07:00	07:30	0.50	743	743	TIGHTEN FLOW LINE.			MOB	MOB	MOB	COND MUD & CIRC				
07:30	08:00	0.50	743	743	DISPLACE HOLE WITH 8.6 OBM			MOB	MOB	MOB	COND MUD & CIRC				
08:00	09:30	1.50	743	743	DRILL CEMENT AND FLOAT EQUIPMENT 652' TO 743'			MOB	MOB	MOB	DRILL W/ MUD				
09:30	05:00	19.50	743	2,294	ROTATE/SLIDE DRILL FROM 743' - 2294', 1551' @ 76 FPH ROTATE DRILL 1501' IN 18.5 HOURS, 81 FPH AVERAGE ROP SLIDE DRILL 40' IN 2 HOUR, 20 FPH AVERAGE ROP ROTATE 97% SLIDE 3% (FULL RETURNS)			INT	DIR	DRILL	DRILL W/ MUD				
Formations															
Formation Name					Prog Depth Top SS (ft)			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				
SALADO															
YATES															
SEVEN RIVERS								2,007			2,005.5				
QUEEN															
GRAYBURG															
SAN ANDRES								3,389			3,384.2				
SPRABERRY UPPER								6,131			6,123.0				
SPRABERRY LOWER								6,704			6,695.9				
JO-MILL SAND								7,001			6,992.9				
DEAN								7,523			7,514.9				
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D								8,806			8,797.8				
CISCO								9,610			9,601.6				
CLINE								9,808			9,799.6				
STRAWN								10,090			10,081.6				
ATOKA								10,396			10,387.5				
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 10/31/2014
Report Number: 11
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 2
End MD (ftKB): 3,959
Depth Progress (ft): 1,665
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913			

Status at Report Time
DRILLING TANGENT @ 3959'

Operations Summary ROTATE & SLIDE 2294' TO 2829', CHANGE OUT SHAKER SCREENS, ROTATE & SLIDE 2829' TO 3959' SALT WATER FLOW @ 3495', RAISE MUD WT TO 9.0, CONT DRILLING 5' HIGH / 4' RIGHT 1st WELL ON PAD NEXT WELL: UNIVERSITY 09 0804H, SKID	Planned Operations DRILL INTERMEDIATE TO 6400'
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Start MD (ftKB) 2,294	End MD (ftKB) 3,959	Depth Progress (ft) 1,665	Drilling Time (hr) 23.00	Avg ROP (ft/hr) 72.4
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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	11:00	6.00	2,294	2,829	ROTATE/SLIDE DRILL FROM 2294' - 2829', 535' @ 89.2 FPH ROTATE DRILL 535' IN 6 HOURS, 89.2 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
11:00	11:30	0.50	2,829	2,829	CHANGE SHAKER SCREENS	INT	DIR	DRILL	COND MUD & CIRC	
11:30	14:00	2.50	2,829	3,018	ROTATE/SLIDE DRILL FROM 2829' - 3018', 189' @ 75.6 FPH ROTATE DRILL 183' IN 2 HOURS, 91.5 FPH AVERAGE ROP SLIDE DRILL 6' IN 1/2 HOUR, 12 FPH AVERAGE ROP ROTATE 96.8% SLIDE 3.2% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
14:00	14:30	0.50	3,018	3,018	SERVICE RIG AND TOP DRIVE	INT	DIR	DRILL	LUBRICATE RIG	
14:30	05:00	14.50	3,018	3,959	ROTATE/SLIDE DRILL FROM 3018' - 3959', 941' @ 65FPH ROTATE DRILL 929' IN 13.5 HOURS, 69 FPH AVERAGE ROP SLIDE DRILL 12' IN 1 HOUR, 12 FPH AVERAGE ROP ROTATE 98.7% SLIDE 1.3% (FULL RETURNS) SALT WATER FLOW @ 3495', RAISE MUD WT TO 9.0, CONT DRILLING	INT	DIR	DRILL	DRILL W/ MUD	

Formations			
Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/1/2014
Report Number: 12
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 3
End MD (ftKB): 5,371
Depth Progress (ft): 1,412
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913					
Status at Report Time DRILLING TANGENT @ 5371'															
Operations Summary ROTATE & SLIDE 3959' TO 5371'								Planned Operations DRILL INTERMEDIATE TO 6400'							
11' HIGH / 12' LEFT 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0804H, SKID															
Start MD (ftKB) 3,959			End MD (ftKB) 5,371			Depth Progress (ft) 1,412			Drilling Time (hr) 23.50			Avg ROP (ft/hr) 60.1			
Time Log															
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments				Hole Section	Interval	Category	Activity		NPT	
05:00	16:00	11.00	3,959	4,523	ROTATE/SLIDE DRILL FROM 3959' - 4523', 564' @ 51.3 FPH ROTATE DRILL 532' IN 8.5 HOURS, 62.6 FPH AVERAGE ROP SLIDE DRILL 32' IN 2.5 HOUR, 12.8 FPH AVERAGE ROP ROTATE 94.3% SLIDE 5.7% (FULL RETURNS)				INT	DIR	DRILL	DRILL W/ MUD			
16:00	16:30	0.50	4,523	4,523	SERVICE RIG AND TOP DRIVE				INT	DIR	DRILL	LUBRICATE RIG			
16:30	05:00	12.50	4,523	5,371	ROTATE/SLIDE DRILL FROM 4523' - 5371', 848' @ 68 FPH ROTATE DRILL 848' IN 12.5 HOURS, 68 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)				INT	DIR	DRILL	DRILL W/ MUD			
Formations															
Formation Name					Prog Depth Top SS (ft)				Drill Top MD (ftKB)				Drill Top (TVD) (ftKB)		
SALADO															
YATES															
SEVEN RIVERS									2,007				2,005.5		
QUEEN															
GRAYBURG															
SAN ANDRES									3,389				3,384.2		
SPRABERRY UPPER									6,131				6,123.0		
SPRABERRY LOWER									6,704				6,695.9		
JO-MILL SAND									7,001				6,992.9		
DEAN									7,523				7,514.9		
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D									8,806				8,797.8		
CISCO									9,610				9,601.6		
CLINE									9,808				9,799.6		
STRAWN									10,090				10,081.6		
ATOKA									10,396				10,387.5		
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/2/2014
Report Number: 13
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 4
End MD (ftKB): 6,400
Depth Progress (ft): 1,029
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

AP: 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A			Proposed TD (ftKB) 14,913				
Status at Report Time TOOH @ 2665'										
Operations Summary ROTATE & SLIDE 5371' TO 6400' PUMP SWEEPS, CIRCULATE HOLE CLEAN, PUMP SLUG, POOH TO 5200', WELL FLOWING @ 4 BBLs PER HOUR, DUST MUD WEIGHT FROM 9.0 TO 9.1, CHECK FLOW, WELL STATIC, POOH. 2' HIGH / 2' RIGHT 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0804H, SKID				Planned Operations FINISH TOOH, RUN 9 5/8" CASING, CEMENT SAME						
Start MD (ftKB) 5,371		End MD (ftKB) 6,400		Depth Progress (ft) 1,029		Drilling Time (hr) 16.50		Avg ROP (ft/hr) 62.4		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	21:30	16.50	5,371	6,400	ROTATE/SLIDE DRILL FROM 5371' - 6400', 1029' @ 62 FPH ROTATE DRILL 1029' IN 16.5 HOURS, 62 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
21:30	00:00	2.50	6,400	6,400	PERFORM CLEAN UP CYCLE, WORK PIPE, ROTARY RPMS 70, GPM 628, STARTING TORQUE 16000 ft lbs, ENDING TORQUE 4000 ft lbs 1st BOTTOMS UP 75% SHAKER SCREEN COVERAGE, STARTING TQ 16000 FT LBS, ENDING TQ 10000 FT LBS 2nd BOTTOMS UP 35% SHAKER SCREEN COVERAGE, STARTING TQ 10000, ENDING TQ 6000 FT LBS 3rd BOTTOMS UP 5% SHAKER SCREEN COVERAGE, STARTING TQ 6000, ENDING TQ 4000 FT LBS SHAKERS CLEAN	INT	DIR	DRILL	COND MUD & CIRC	
00:00	02:00	2.00	6,400	6,400	FLOW CHECK (OK) PUMP SLUG, TOOH PULLING SLOW, 1 ST 5 STDS CHECK FLOW, GAINED 1 BBL, 2 ND 5 STDS CHECKED FLOW, GAINED 4 BBLs, PULLED 2 STDS, CHECKED FLOW, WELL FLOWING 4 TO 5 BBLs PER HR,	INT	DIR	DRILL	TRIPS	
02:00	02:00		6,400	6,400	TIME CHANGE	INT	DIR	DRILL		
02:00	03:30	1.50	6,400	6,400	CIRCULATE, DUST MUD WT UP F/ 9.0 PPG T/ 9.1 PPG, CHECK FLOW, WELL STATIC	INT	DIR	DRILL	COND MUD & CIRC	
03:30	06:00	2.50	6,400	6,400	PUMP SLUG, TOOH	INT	DIR	DRILL	TRIPS	
Formations										
Formation Name					Prog Depth Top SS (ft)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	
SALADO										
YATES										
SEVEN RIVERS							2,007		2,005.5	
QUEEN										
GRAYBURG										
SAN ANDRES							3,389		3,384.2	
SPRABERRY UPPER							6,131		6,123.0	
SPRABERRY LOWER							6,704		6,695.9	
JO-MILL SAND							7,001		6,992.9	
DEAN							7,523		7,514.9	
WOLFCAMP A										
WOLFCAMP B										
WOLFCAMP C										
WOLFCAMP D							8,806		8,797.8	
CISCO							9,610		9,601.6	
CLINE							9,808		9,799.6	
STRAWN							10,090		10,081.6	
ATOKA							10,396		10,387.5	
BARNETT										
WOODFORD										
DEVONIAN										
ELLENBURGER										



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/3/2014
Report Number: 14
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 5
End MD (ftKB): 6,400
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary							
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913			

Status at Report Time
PICKING UP LANDING JOINT

Operations Summary POOH TO RUN 9 5/8 CASING, L/D 8" BHA AND DIRECTIONAL TOOLS, PULL WEAR BUSHING, INSTALL TRIP NIPPLE, CLEAN AND CLEAR RIG FLOOR, RIG DOWN 5" ELEVATORS AND LINKS, RIG UP CASING CREW, MAKE UP SHOE TRACK, CHECK FLOATS, (OK) RUN CASING 2' HIGH / 2' RIGHT 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0804H, SKID	Planned Operations PICK UP LANDING JT, CIRCULATE CASING, CEMENT SAME, INSTALL PACKOFF, TEST SAME
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Start MD (ftKB) 6,400	End MD (ftKB) 6,400	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
05:00	09:00	4.00	6,400	6,400	POOH TO BHA.	INT	DIR	DRILL	TRIPS	
09:00	12:30	3.50	6,400	6,400	L/D 3 - 8" DRILL COLLARS, L/D DIRECTIONAL TOOLS.	INT	DIR	DRILL	DIRECTIONAL WORK	
12:30	13:00	0.50	6,400	6,400	PULL WEAR BUSHING, INSTALL TRIP NIPPLE.	INT	DIR	DRILL	3rd PARTY EQUIPMENT REPAIR	
13:00	13:30	0.50	6,400	6,400	CLEAN AND CLEAR RIG FLOOR	INT	DIR	DRILL	SAFETY MEETING	
13:30	15:30	2.00	6,400	6,400	RIG UP CASING CREW	INT	DIR	DRILL	RUN CASING	
15:30	16:00	0.50	6,400	6,400	HELD PRE JOB SAFETY MEETING WITH RIG CREW, TP, CASING CREW AND COMPANY MAN	INT	DIR	DRILL	SAFETY MEETING	
16:00	05:00	13.00	6,400	6,400	RUN 9 5/8 - 40# - L80 & J55: SHOE, 1 JOINT 9 5/8 CASING, FC, 146 JOINTS 9 5/8 CASING: TOTAL CASING RUN 147 JOINTS + LANDING JOINT, SHOE SET @ 6390'	INT	DIR	CSG/CEMENT	RUN CASING	

Formations			
Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/4/2014
Report Number: 15
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 6
End MD (ftKB): 6,400
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913					
Status at Report Time TEST MWD (OK) MAKE UP BIT															
Operations Summary MAKE UP LANDING JOINT, HANG OFF 9 5/8 CASING, INSTALL CEMENT HEAD AND LINES, CIRCULATE 5632 STROKES, STARTED LOSING FLUID @ 5300 STROKES, HELD PJSM WITH CEMENT CREW, RIG CREW AND CO MAN, CEMENT 9 5/8 CASING, BUMPED PLUG ON TIME, FLOATS DID NOT HOLD, SHUT CASING IN FOR 6 HOURS, RIG DOWN CEMENT EQUIPMENT AND START CLEANING MUD TANKS. OPEN WELL, NO FLOW, INSTALL WELL HEAD PACKOFF, TEST SAME 2' HIGH / 2' RIGHT 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0804H, SKID								Planned Operations TIH, TEST CASING, DRILL SHOE TRACK + 15' NEW FORMATION, PERFORM FIT TEST, DRILL 8 3/4" HOLE							
Start MD (ftKB) 6,400		End MD (ftKB) 6,400		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	6,400	6,400	MAKE UP LANDING JOINT AND HANG OFF 9 5/8 CASING. R/D CASING CREW, RIG UP CEMENT HEAD AND LINES	INT	DIR	CSG/CEMENT	RUN CASING						
06:30	08:00	1.50	6,400	6,400	CIRCULATE CASING, CIRCULATED 5632 STROKES, STARTED LOSING MUD @ 5300 STROKES.	INT	DIR	CSG/CEMENT	RUN CASING						
08:00	08:30	0.50	6,400	6,400	HELD PRE JOB SAFETY MEETING WITH RIG CREW, TP, CEMENTERS AND CO REP.	INT	DIR	CSG/CEMENT	SAFETY MEETING						
08:30	14:00	5.50	6,400	6,400	UNIVERVERSAL CEMENTING: PUMP 9.625 CEMENT JOB, PUMP 20 BBLS TREATED WATER PREFLUSH WITH GAL PLEXAID 840, PUMP 300 BBLS TREATED WATER PRE FLUSH WITH 30 GAL CSA-7 AND 6 GAL BIO-15G, PUMP 50 BBLS 9.0# OBM MUDWASH/STOPLOSS (40 PPB), LEAD: 765 SACKS (440.1 BBLS) 11.2 PPG, TAIL: 110 SACKS (28.2 BBLS) 13.4 PPG, 6 BBLS MAX PUMP RATE, PUMPED 482 BBLS DISPLACEMENT, (PARTIAL RETURNS) 40 BBLS INTO DISPLACEMENT LOST ALL RETURNS, 100 BBLS INTO DISPLACEMENT GOT RETURNS BACK, THE LAST 382 BBLS OF DISPLACEMENT (PARTIAL RETURNS, SLOWED PUMP RATE TO 3.0 BPM THE LAST 83 BBLS, 700 PSI BEFORE BUMPING PLUG, HOLD 1200 PSI FOR 5 MIN, BLED BACK, FLOATS DID NOT HOLE, SHUT CASING IN FOR 6 HOURS, ESTIMATED TOP OF LEAD 3000', ESTIMATED TOP OF TAIL 5900'.	INT	DIR	CSG/CEMENT	RUN CEMENT						
14:00	20:00	6.00	6,400	6,400	FLOATS DID NOT HOLD, SHUT IN CASING FOR 6 HOURS, RIG DOWN CEMENT EQUIPMENT, START CLEANING MUD TANKS.	INT	DIR	CSG/CEMENT	RUN CEMENT						
20:00	00:30	4.50	6,400	6,400	OPEN WELL, NO FLOW, LAY DOWN LANDING JT, INSTALL WELL HEAD PACKOFF, TEST TO 2000 PSI (OK)	INT	DIR	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD						
00:30	04:30	4.00	6,400	6,400	P/U DIRECTIONAL TOOLS FOR 8 3/4 HOLE, INSTALL MWD, DRESS SHAKERS, PRIME PUMPS	INT	DIR	CSG/CEMENT	P/U & L/D BHA						
04:30	05:00	0.50	6,400	6,400	FINISH CLEANING MUD PITS @ 02:00 HRS	INT	DIR	CSG/CEMENT	P/U & L/D BHA						
					TEST MWD (OK) MAKE UP BIT	INT	DIR	CSG/CEMENT	P/U & L/D BHA						
Formations															
Formation Name						Prog Depth Top SS (ft)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)					
SALADO															
YATES															
SEVEN RIVERS								2,007		2,005.5					
QUEEN															
GRAYBURG															
SAN ANDRES								3,389		3,384.2					
SPRABERRY UPPER								6,131		6,123.0					
SPRABERRY LOWER								6,704		6,695.9					
JO-MILL SAND								7,001		6,992.9					
DEAN								7,523		7,514.9					
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D								8,806		8,797.8					
CISCO								9,610		9,601.6					
CLINE								9,808		9,799.6					
STRAWN								10,090		10,081.6					
ATOKA								10,396		10,387.5					
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



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AMERICAN ENERGY - PERMIAN BASIN LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/5/2014
Report Number: 16
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 7
End MD (ftKB): 7,565
Depth Progress (ft): 1,150
Planned VS (ft): 7,145
Current VS (ft): 247
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time
DRILLING 8 3/4" PILOT HOLE @ 7565'

Operations Summary

TEST MWD, MAKE UP 8 3/4 BIT, TIH, TAGGED @ 6334', TESTED CASING TO 1500 PSI FOR 30 MIN (TEST GOOD), DRILL CEMENT AND FLOAT EQUIPMENT 6334' TO 6400', DRILL 15' OF NEW FORMATION, PERFORM FIT (FIT WAS GOOD TO 9.6 EMW), DRILL PILOT HOLE 6415' TO 7565'

Planned Operations

DRILL 8 3/4" PILOT HOLE PER PROG. WIRE LINE LOGS, SIDE WALL CORES, ETC.

3' HIGH / 7' LEFT 1st WELL ON PAD
BIG RIG SPUD DATE: 10/29/2014 AT 09:30
NEXT WELL: UNIVERSITY 09 0804H, SKID

Start MD (ftKB) 6,415	End MD (ftKB) 7,565	Depth Progress (ft) 1,150	Drilling Time (hr) 15.00	Avg ROP (ft/hr) 76.7
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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	05:30	0.50	6,400	6,400	TEST MWD, MAKE UP 8 3/4 BIT.	INT	DIR	CSG/CEMENT	DIRECTIONAL WORK	
05:30	10:00	4.50	6,400	6,400	TIH, TAGGED UP @ 6334'	INT	DIR	CSG/CEMENT	TRIPS	
10:00	11:00	1.00	6,400	6,400	CIRCULATE AND TEST CASING TO 1500 PSI FOR 30 MIN (TEST GOOD)	INT	DIR	CSG/CEMENT	COND MUD & CIRC	
11:00	12:00	1.00	6,400	6,400	DRILL CEMENT AND FLOAT EQUIPMENT 6334' TO 6400'	INT	DIR	CSG/CEMENT	DRILL W/ MUD	
12:00	14:00	2.00	6,400	6,415	DRILL 15' OF NEW FORMATION, PERFORM FIT TO 9.6 PPG EMW (FIT TEST GOOD)	INT	DIR	CSG/CEMENT	COND MUD & CIRC	
14:00	05:00	15.00	6,415	7,565	ROTATE/SLIDE DRILL FROM 6415' - 7565', 1150' @ 76.7 FPH ROTATE DRILL 1165' IN 15 HOURS, 76.7 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	PILOT	VERT	DRILL	DRILL W/ MUD	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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AMERICAN ENERGY - PERMIAN BASIN LLC
UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/6/2014
Report Number: 17
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 8
End MD (ftKB): 9,415
Depth Progress (ft): 1,850
Planned VS (ft): 7,145
Current VS (ft): 257
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP-A	Proposed TD (ftKB) 14,913
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Status at Report Time
DRILLING PILOT HOLE

Operations Summary

ROTATE AND SLIDE 7565' - 9,415'

33' HIGH / 14' LEFT 1st WELL ON PAD
BIG RIG SPUD DATE: 10/29/2014 AT 09:30
NEXT WELL: UNIVERSITY 09 0804H, SKID

Planned Operations

CONTINUE DRILLING PILOT HOLE TO 11,500'

Start MD (ftKB) 7,565	End MD (ftKB) 9,415	Depth Progress (ft) 1,850	Drilling Time (hr) 24.00	Avg ROP (ft/hr) 77.1
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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	05:00	24.00	7,565	9,415	ROTATE/SLIDE DRILL FROM 7565' - 9,415', 1850' @ 77 FPH ROTATE DRILL 1845' IN 23.5 HOURS, 79 FPH AVERAGE ROP SLIDE DRILL 5' IN .5 HOUR, 10 FPH AVERAGE ROP ROTATE 99% SLIDE 1% (FULL RETURNS)	PILOT	VERT	DRILL	DRILL W/ MUD	

Formations

Formation Name	Prog Depth Top SS (ft)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO			
YATES			
SEVEN RIVERS		2,007	2,005.5
QUEEN			
GRAYBURG			
SAN ANDRES		3,389	3,384.2
SPRABERRY UPPER		6,131	6,123.0
SPRABERRY LOWER		6,704	6,695.9
JO-MILL SAND		7,001	6,992.9
DEAN		7,523	7,514.9
WOLFCAMP A			
WOLFCAMP B			
WOLFCAMP C			
WOLFCAMP D		8,806	8,797.8
CISCO		9,610	9,601.6
CLINE		9,808	9,799.6
STRAWN		10,090	10,081.6
ATOKA		10,396	10,387.5
BARNETT			
WOODFORD			
DEVONIAN			
ELLENBURGER			



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

UNIVERSITY 09 0806H
AEPB WELL NO. 22

Report End Date: 11/7/2014
Report Number: 18
Rig: ENSIGN, 760
Projected Days (days): 26
Drilling Days: 9
End MD (ftKB): 10,530
Depth Progress (ft): 1,115
Planned VS (ft): 7,145
Current VS (ft): 268
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP-A				Proposed TD (ftKB) 14,913					
Status at Report Time DRILLING PILOT HOLE															
Operations Summary ROTATE AND SLIDE 9415' TO 10,530'								Planned Operations CONTINUE DRILLING PILOT HOLE TO 11,500'							
21' NORTH / 49' EAST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0804H, SKID															
Start MD (ftKB) 9,415		End MD (ftKB) 10,530		Depth Progress (ft) 1,115		Drilling Time (hr) 25.00		Avg ROP (ft/hr) 44.6							
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	9,415	10,530	ROTATE/SLIDE DRILL FROM 9415' - 10,530', 1115' @ 47 FPH ROTATE DRILL 1,081' IN 20.5 HOURS, 53 FPH AVERAGE ROP SLIDE DRILL 34' IN 3.5 HOUR, 10 FPH AVERAGE ROP ROTATE 97% SLIDE 3% (FULL RETURNS)		PILOT	VERT	DRILL		DRILL W/ MUD				
Formations															
Formation Name					Prog Depth Top SS (ft)			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				
SALADO															
YATES															
SEVEN RIVERS								2,007			2,005.5				
QUEEN															
GRAYBURG															
SAN ANDRES								3,389			3,384.2				
SPRABERRY UPPER								6,131			6,123.0				
SPRABERRY LOWER								6,704			6,695.9				
JO-MILL SAND								7,001			6,992.9				
DEAN								7,523			7,514.9				
WOLFCAMP A															
WOLFCAMP B															
WOLFCAMP C															
WOLFCAMP D								8,806			8,797.8				
CISCO								9,610			9,601.6				
CLINE								9,808			9,799.6				
STRAWN								10,090			10,081.6				
ATOKA								10,396			10,387.5				
BARNETT															
WOODFORD															
DEVONIAN															
ELLENBURGER															



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/8/2014
Report # 19
Projected Days 26
Drilling Days 10
Current Depth 10,894
Depth Progress 364
Planned VS 7,145
Current VS 265
AFE # DV02085
Total AFE 8,572,000

42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS											
Report Summary																									
Well Spud 10/15/2014		TD Date	RR Date	Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth				Drilling AFE 3,365,300		Daily Field Est (Cost) 85,345		Cum Field Est (Cost) 1,916,642									
Status at Report Time CHANGE OUT BHA																									
Operations Summary ROTATE AND SLIDE 10530' TO 10,894, CIRCULATE, TOO H (MTR FAILURE) & C/O BHA								Planned Operations FINISH C/O BHA, TIH & CONTINUE DRILLING PILOT HOLE TO 12,100'																	
22' NORTH / 55' EAST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																									
Start MD (ftKB) 10,530			End MD (ftKB) 10,894			Depth Progress (ft) 364		Drilling Time (hr) 15.00		Avg ROP (ft/hr) 24.3		Time Since LTI (days) 1,197		Time Since RI (days) 1,197											
Daily Time Log																									
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments						Hole Section	Interval	Category	Activity		NPT									
05:00	20:00	15.00	10,530	10,894	ROTATE/SLIDE DRILL FROM 10,530' - 10,894', 364' @ 24 FPH ROTATE DRILL 271' IN 6.5 HOURS, 42 FPH AVERAGE ROP SLIDE DRILL 93' IN 8.5 HOUR, 11 FPH AVERAGE ROP ROTATE 74% SLIDE 26% (FULL RETURNS)						PILOT	VERT	DRILL	DRILL W/ MUD											
20:00	21:30	1.50	10,894	10,894	CIRCULATE SWEEP AROUND, BUILD SLUG, CHECK FLOW (NO FLOW) & PUMP SLUG						PILOT	VERT	DRILL	COND MUD & CIRC		Yes									
21:30	04:00	6.50	10,894	10,894	TOOH F/10,894 - 196' (CHECK FLOW AT CASING SHOE & BHA WELL STATIC) PROPER FILL ON TRIP						PILOT	VERT	DRILL	TRIPS		Yes									
04:00	05:00	1.00	10,894	10,894	DRAIN M.MTR, BREAK BIT, RETRIEVE MWD, BREAK & L/D MTR SAME						PILOT	VERT	DRILL	TRIPS		Yes									
Drilling Parameters																									
Start Depth (ftKB)		End Depth (ftKB)		Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)		WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq									
10,530		10,637		2.00	0.00	53.5		500		25	544	2,500.0	60	300	240	18,000									
10,637		10,650		0.00	1.00	13.0	250	150		12	544	2,500.0	0	300	240										
10,650		10,730		2.00	0.00	40.0		500		25	544	2,500.0	50	300	240	18,000									
10,730		10,745		0.00	1.00	15.0	250	200		10	544	2,500.0	0	300	240										
10,745		10,762		0.50	0.00	34.0		500		25	544	2,500.0	50	300	240	18,000									
10,762		10,770		0.00	0.50	16.0	260	250		12	544	2,500.0	0	300	240										
10,770		10,793		0.50	0.00	46.0		500		25	544	2,500.0	50	300	240	15,000									
10,793		10,803		0.00	0.50	20.0	260	250		12	544	2,500.0	0	300	240										
10,803		10,825		0.50	0.00	44.0		500		25	544	2,500.0	50	300	240	15,000									
10,825		10,845		0.00	2.00	10.0	260	200		12	544	2,500.0	0	300	240										
10,845		10,856		0.50	0.00	22.0		500		25	544	2,500.0	50	300	240	15,000									
10,856		10,876		0.00	2.00	10.0	260	200		15	544	2,300.0	0	300	240										
10,876		10,887		0.50	0.00	22.0		500		25	544	2,500.0	60	300	240	16,000									
10,887		10,894		0.00	1.50	4.7	260	200		15	544	2,300.0		300	240										
Bit Information																									
Size (in)	Make		Model		Type		Dull Out		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)							
12 1/4	HALLIBURTON		MM75D		PDC		1-1-WT-G-X-X-0-WT-TD		743	6,400	5,657.00	82.50	68.6	75.50	7.00	73.3	35	160							
8 3/4	HALLIBURTON		MM65DM		PDC		-----		6,415	10,894	4,479.00	78.00	57.4	65.50	12.50	66.4	30	217							
Current BHA Components																									
BHA No		Item Description						Make		Model		OD (in)		Jts	Length (ft)		Top Thread								
3		DRILL PIPE						ARCHER		POSTIVE PULSE		5		326	10,153.10		IF								
3		HWDP										5		18	544.36		IF								
3		XO SUB										6 1/4		1	1.74		IF								
3		DRILL COLLAR										6		3	92.20		XH								
3		XO SUB										6 13/16		1	2.83		XH								
3		NMDC										6 13/16		1	29.21		IF								
3		NMDC										6 13/16		1	31.06		IF								
3		LCPG										2					XH								
3		UBHO SUB										6 1/2		1	3.11		IF								
3		STABILIZER										6 1/2		1	5.54		XH								
3		FLOAT SUB										6 1/2		1	3.50		XH								
3		MUD MOTOR						ARCHER		6757850		6 3/4		1	26.35		XH								
Mud Reports																									
Time 11:59		Type WATER BASE		Depth (ftKB) 10,763		Density (lb/gal) 9.30		Vis (s/qt) 38		PV Calc (cP) 9.0		YP Calc (lbf/100ft²) 22		Vis 3rpm 8		Vis 6rpm 9		LGS (%) 2.9		LCM (lb/bbl)		Chlor (mg/L) 65,000		Oil Water Ratio 0/100	
Electric Stab (V)		X Lime (lb/bbl)		0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 6,584.82		Cum Mud Field Est (Cost) 105,233.01							
Time 23:59		Type WATER BASE		Depth (ftKB) 10,894		Density (lb/gal) 9.20		Vis (s/qt) 38		PV Calc (cP) 10.0		YP Calc (lbf/100ft²) 21		Vis 3rpm 8		Vis 6rpm 9		LGS (%) 2.1		LCM (lb/bbl)		Chlor (mg/L) 65,000		Oil Water Ratio 0/100	
Electric Stab (V)		X Lime (lb/bbl)		0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 6,584.82		Cum Mud Field Est (Cost) 105,233.01							
Wellbore Design																									
Casing Description					Run Date			OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)							
CONDUCTOR					10/12/2014			20		94.00		J-55		WELDED		110.0		80.00							
SURFACE					10/16/2014			13 3/8		54.50		J-55		BUTTRESS THREAD		713.0		683.02							
INTERMEDIATE					11/3/2014			9 5/8		40.00		J-55		LT&C		6,400.0		6,370.20							
PLANNED PRODUCTION								5 1/2		17.00		P-110		LT&C		14,913.0		14,883.00							
Survey Data																									
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)									
10,205		0.60		45.90		10,197		266.37		-160.69		212.59		0.23		-0.11									
10,299		0.50		50.10		10,291		266.57		-160.09		213.25		0.11		-0.11									
10,394		0.60		79.00		10,386		267.02		-159.73		214.06		0.31		0.11									
10,488		0.70		66.30		10,480		267.65		-159.40		215.07		0.19		0.11									
10,582		1.10		79.50		10,574		268.57		-159.01		216.48		0.48		0.43									
10,675		1.10		73.70		10,667		269.75		-158.59		218.22		0.12		0.00									
10,770		1.10		87.70		10,761		271.03		-158.30		220.00		0.28		0.00									
10,894		1.10		87.70		10,885		272.91		-158.21		222.38		0.00		0.00									
Mud Logging Information																									
Lithology and Shows 100% SHALE, TRACE OF PYRITE										Max Trip Gas (units)			Avg Drill Gas (units)			Max Drill Gas (units)									
													755			930									
Geological Data																									
Formation Name								Prog Top TVD (ftKB)				Drill Top MD (ftKB)				Drill Top (TVD) (ftKB)									
SALADO								1,182																	
YATES								1,861																	
SEVEN RIVERS								2,007				2,007				2,005.5									
QUEEN								2,411																	
GRAYBURG								3,084																	
SAN ANDRES								3,389				3,389				3,384.2									
SPRABERRY UPPER								6,131				6,131				6,123.0									
SPRABERRY LOWER								6,704				6,704				6,695.9									
JO-MILL SAND								7,001				7,001				6,992.9									



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/8/2014
Report # 19
Projected Days 26
Drilling Days 10
Current Depth 10,894
Depth Progress 364
Planned VS 7,145
Current VS 265
AFE # DV02085
Total AFE 8,572,000

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
DEAN	7,523	7,523	7,514.9
WOLFCAMP A	7,693		
WOLFCAMP B	8,053		
WOLFCAMP C	8,396		
WOLFCAMP D	8,806	8,806	8,797.8
CISCO	9,611	9,610	9,601.6
CLINE	9,808	9,808	9,799.6
STRAWN	10,093	10,090	10,081.6
ATOKA	10,396	10,396	10,387.5
BARNETT	10,581	10,581	10,572.5
WOODFORD	10,714	10,714	10,705.5
DEVONIAN	10,791	10,790	10,781.5
ELLENBURGER	11,445		



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/9/2014
Report # 20
Projected Days 26
Drilling Days 11
Current Depth 11,217
Depth Progress 323
Planned VS 7,145
Current VS 277
AFE # DV02085
Total AFE 8,572,000

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary								
Well Spud 10/15/2014	TD Date	RR Date	Target Formation WOLFCAMP-A	Prop TD (ftKB) 14,913	Target Line 7833' TVD @ 0° VS w/90.19° Inc and 1.19° Azimuth	Drilling AFE 3,365,300	Daily Field Est (Cost) 97,594	Cum Field Est (Cost) 2,014,236

Status at Report Time DRILLING PILOT HOLE							
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Operations Summary SCRIB MOTOR, INSTALL MWD, TEST MWD (TEST GOOD), MAKE UP BIT #3, TIH, ROTATE AND SLIDE 10894' TO 11,217'	Planned Operations CONTINUE DRILLING PILOT HOLE TO 12,100'
5' SOUTH / 5' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID	

Start MD (ftKB) 10,894	End MD (ftKB) 11,217	Depth Progress (ft) 323	Drilling Time (hr) 16.00	Avg ROP (ft/hr) 20.2	Time Since LTI (days) 1,198	Time Since RI (days) 1,198
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Daily 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	10,894	10,894	CHANGE OUT MOTOR, SCRIBE MOTOR, INSTALL MWD, TEST MWD (TEST GOOD), MAKE UP BIT #3	PILOT	VERT	DRILL	P/U & L/D BHA	Yes
08:00	13:00	5.00	10,894	10,894	TIH, FILL PIPE EVERY 30 STDTS, TO 10894'	PILOT	VERT	DRILL	TRIPS	Yes
13:00	05:00	16.00	10,894	11,217	ROTATE/SLIDE DRILL FROM 10,894' - 11,217', 323' @ 20 FPH ROTATE DRILL 253' IN 8 HOURS, 32 FPH AVERAGE ROP SLIDE DRILL 70' IN 8 HOUR, 9 FPH AVERAGE ROP ROTATE 78% SLIDE 22% (FULL RETURNS)	PILOT	VERT	DRILL	DRILL W/ MUD	

Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq
10,894	10,905	0.00	1.50	7.3	260	200	10	544	2,200.0	0	310	260	
10,905	10,919	0.50	0.00	28.0		350	25	544	2,500.0	50	310	260	15,000
10,919	10,934	0.00	2.00	7.5	270	200	15	544	2,500.0	0	310	260	
10,934	10,950	1.00	0.00	16.0		400	25	544	2,500.0	50	310	260	15,000
10,950	10,958	0.00	0.50	16.0	250	200	25	544	2,100.0		310	260	
10,958	11,013	1.00	0.00	55.0		400	25	544	2,600.0	50	310	270	18,000
11,013	11,018	0.00	0.50	10.0	300	200	26	544	2,100.0		310	270	
11,018	11,076	2.00	0.00	29.0		400	25	544	2,600.0	50	310	270	18,000
11,076	11,082	0.00	0.50	12.0	300	200	25	544	2,100.0		310	270	
11,082	11,108	1.00	0.00	26.0		400	25	544	2,600.0	50	310	270	18,000
11,108	11,118	0.00	1.00	10.0	270	200	25	544	2,100.0		310	270	
11,118	11,202	2.50	0.00	33.6		400	25	591	2,600.0	50	310	270	18,000
11,202	11,217	0.00	2.00	7.5	270	200	25	591	2,400.0		310	270	

Size (in)	Make	Model	Typ	Dull Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)
8 3/4	HALLIBURTON	MM65DM	PDC		6,415	10,894	4,479.00	78.00	57.4	65.50	12.50	66.4	30	217
8 3/4	HALLIBURTON	MM65DM	PDC	0-0-CT-N-X-0-CT-DMF	10,894	11,217	323.00	16.00	20.2	8.00	8.00	31.6	26	207

BHA No	Item Description	Make	Model	OD (in)	Jts	Length (ft)	Top Thread
4	DRILL PIPE			5	324	10,476.11	IF
4	HWDP			5	18	544.36	IF
4	XO SUB			6 1/4	1	1.74	IF
4	DRILL COLLAR			6	3	92.20	XH
4	XO SUB			6 13/16	1	2.83	XH
4	NMDC			6 13/16	1	29.21	IF
4	NMDC			6 13/16	1	31.06	IF
4	UBHO SUB			6 1/2	1	3.11	IF
4	STABILIZER			6 1/2	1	5.54	XH
4	FLOAT SUB			6 1/2	1	3.50	XH
4	MUD MOTOR	ARCHER	24X	6 3/4	1	26.34	XH

Time	Type	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)	Vis 3rpm	Vis 6rpm	LGS (%)	LCM (lb/bbl)	Chlor (mg/L)	Oil Water Ratio
11:59	WATER BASE	10,894	9.20	38	11.0	22	8	9	2.2		64,000	0/100
Electric Stab (V)		X Lime (lb/bbl) 0.1	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 2,900.32		Cum Mud Field Est (Cost) 108,133.33	
Time	Type	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)	Vis 3rpm	Vis 6rpm	LGS (%)	LCM (lb/bbl)	Chlor (mg/L)	Oil Water Ratio
23:59	WATER BASE	11,110	9.30	39	9.0	21	7	8	3.3		58,000	0/100
Electric Stab (V)		X Lime (lb/bbl) 0.1	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 2,900.32		Cum Mud Field Est (Cost) 108,133.33	

Wellbore Design							
Casing Description	Run Date	OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ftKB)	Length (ft)
CONDUCTOR	10/12/2014	20	94.00	J-55	WELDED	110.0	80.00
SURFACE	10/16/2014	13 3/8	54.50	J-55	BUTTRESS THREAD	713.0	683.02
INTERMEDIATE	11/3/2014	9 5/8	40.00	J-55	LT&C	6,400.0	6,370.20
PLANNED PRODUCTION		5 1/2	17.00	P-110	LT&C	14,913.0	14,883.00

Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)
10,582	1.10	79.50	10,574	268.58	-159.01	216.48	0.48	0.43
10,675	1.10	73.70	10,667	269.71	-158.59	218.22	0.12	0.00
10,770	1.10	87.70	10,761	270.96	-158.30	220.00	0.28	0.00
10,864	1.00	119.90	10,855	272.47	-158.67	221.61	0.63	-0.11
10,958	1.80	178.00	10,949	274.22	-160.56	222.38	1.63	0.85
11,053	1.80	181.40	11,044	276.03	-163.54	222.39	0.11	0.00
11,146	1.40	187.20	11,137	277.45	-166.13	222.22	0.46	-0.43
11,217	1.40	187.20	11,208	278.31	-167.85	222.00	0.00	0.00

Mud Logging Information			
Lithology and Shows 10 SHALE, 10% LIMESTONE,80% DOLOMITE			
Max Trip Gas (units)		Avg Drill Gas (units)	851
Max Drill Gas (units)			1,119

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO	1,182		
YATES	1,861		
SEVEN RIVERS	2,007		
QUEEN	2,411		
GRAYBURG	3,084		
SAN ANDRES	3,389	3,389	3,384.2
SPRABERRY UPPER	6,131	6,131	6,123.0
SPRABERRY LOWER	6,704	6,704	6,695.9
JO-MILL SAND	7,001	7,001	6,992.9
DEAN	7,523	7,523	7,514.9
WOLFCAMP A	7,693		



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/9/2014
Report # 20
Projected Days 26
Drilling Days 11
Current Depth 11,217
Depth Progress 323
Planned VS 7,145
Current VS 277
AFE # DV02085
Total AFE 8,572,000

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
WOLFCAMP B	8,053		
WOLFCAMP C	8,396		
WOLFCAMP D	8,806	8,806	8,797.8
CISCO	9,611	9,610	9,601.6
CLINE	9,808	9,808	9,799.6
STRAWN	10,093	10,090	10,081.6
ATOKA	10,396	10,396	10,387.5
BARNETT	10,581	10,581	10,572.5
WOODFORD	10,714	10,714	10,705.5
DEVONIAN	10,791	10,790	10,781.5
ELLENBURGER	11,445		



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/10/2014
Report # 21
Projected Days 26
Drilling Days 12
Current Depth 11,387
Depth Progress 170
Planned VS 7,145
Current VS 280
AFE # DV02085
Total AFE 8,572,000

API 42383392020000		Surface Legal Location		Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS		
Report Summary											
Well Spud 10/15/2014	TD Date	RR Date	Target Formation WOLFCAMP-A	Prop TD (ftKB) 14,913	Target Line 7833' TVD @ 0° VS w/90.19° Inc and 1.19° Azimuth			Drilling AFE 3,365,300	Daily Field Est (Cost) 73,303	Cum Field Est (Cost) 2,077,479	
Status at Report Time TRIPPING IN HOLE											
Operations Summary ROTATE AND SLIDE 11,218' TO 11387', TROUBLE SHOOT PSI INCREASE, CIRC, TOOHP, C/O BHA & TIH TO 8,300'						Planned Operations FINISH TIH T/11,387' & CONTINUE DRILLING PILOT HOLE TO 12,100'					
7' SOUTH / 8' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID											
Start MD (ftKB) 11,217		End MD (ftKB) 11,387		Depth Progress (ft) 170		Drilling Time (hr) 9.50		Avg ROP (ft/hr) 17.9		Time Since LTI (days) 1,199	
Daily Time Log											
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments			Hole Section	Interval	Category	Activity
05:00	14:30	9.50	11,217	11,387	ROTATE/SLIDE DRILL FROM 11,218' - 11387', 169° @ 17.8 FPH ROTATE DRILL 122' IN 5 HOURS, 24.4 FPH AVERAGE ROP SLIDE DRILL 35' IN 3.5 HOUR, 10 FPH AVERAGE ROP ROTATE 72% SLIDE 28% (FULL RETURNS)			PILOT	VERT	DRILL	DRILL W/ MUD
14:30	15:30	1.00	11,387	11,387	CIRCULATE AND WORK PIPE WHILE BUILDING SLUG			PILOT	VERT	DRILL	COND MUD & CIRC
15:30	21:00	5.50	11,387	11,387	PUMP SLUG POOH FROM 11387' - 98' (PROPER FILL ON TRIP, CHECK FLOW AT CASING SHOE & BHA WELL STATIC)			PILOT	VERT	DRILL	TRIPS
21:00	22:30	1.50	11,387	11,387	DRAIN M.MOTOR, BREAK BIT, RETRIEVE MWD, BREAK & L/D M.MTR, STB, FLT SUB & UBHO			PILOT	VERT	DRILL	TRIPS
22:30	23:00	0.50	11,387	11,387	RETRIEVE, INSPECT & INSTALL WEARBUSHING, FUNCTION TEST BOP'S & CLEAN OFF RIG FLOOR			PILOT	VERT	DRILL	TRIPS
23:00	00:30	1.50	11,387	11,387	P/U & M/U M.MTR & UBHO, READJUST M.MTR F/1.5° - 1.75° INC, SCRIBE TO UBHO, INSTALL MWD, FUNCTION TEST (GOOD) & M/U BIT			PILOT	VERT	DRILL	TRIPS
00:30	05:00	4.50	11,387	11,387	TIH F/98' - 8,300' (PROPER DISPLACEMENT ON TRIP, FILL UP EVERY 30 STANDS)			PILOT	VERT	DRILL	TRIPS
Drilling Parameters											
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)
11,217	11,295	0.00	3.00	26.0		400	30	544	2,400.0		310
11,295	11,315	0.00	2.00	10.0	270	200	20	544	2,100.0		310
11,315	11,329	0.00	0.50	28.0		400	30	544	2,400.0		310
11,329	11,345	0.00	1.50	10.7	270	200	30	544	2,300.0		310
11,345	11,387	0.00	2.50	16.8		400	30	544	2,500.0		310
Bit Information											
Size (in)	Make	Model	Type	Dull Out		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)
8 3/4	HALLIBURTON	MM65DM	PDC	0-0-WT-A-X-0-NO-DMF		10,894	11,387	493.00	25.50	19.3	8.00
8 3/4	HALLIBURTON	MM65DM	PDC	-----							
Current BHA Components											
BHA No	Item Description					Make	Model	OD (in)	Jts	Length (ft)	
5	DRILL PIPE							5	330	10,657.24	
5	HWDP							5	18	544.36	
5	XO SUB							6 1/4	1	1.74	
5	DRILL COLLAR - NON MAG							6	3	92.20	
5	XO SUB							6 13/16	1	2.83	
5	NMDC							6 13/16	1	29.21	
5	MWD - DIR & LOGGING					ARCHER	POSITIVE PULSE	2		0.00	
5	NMDC							6 13/16	1	31.06	
5	UBHO SUB							6 1/2	1	3.11	
5	MUD MOTOR					ARCHER	24X	6 3/4	1	24.25	
Mud Reports											
Time 11:59	Type WATER BASE	Depth (ftKB) 11,335	Density (lb/gal) 9.30	Vis (s/qt) 38	PV Calc (cP) 10.0	YP Calc (lbf/100ft²) 21	Vis 3rpm 7	Vis 6rpm 8	LGS (%) 3.6	LCM (lb/bbl)	Chlor (mg/L) 55,000
Electric Stab (V)		X Lime (lb/bbl) 0.1	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 3,852.84		Cum Mud Field Est (Cost) 111,986.17
Time 23:59	Type WATER BASE	Depth (ftKB) 11,387	Density (lb/gal) 9.30	Vis (s/qt) 38	PV Calc (cP) 10.0	YP Calc (lbf/100ft²) 20	Vis 3rpm 6	Vis 6rpm 7	LGS (%) 3.4	LCM (lb/bbl)	Chlor (mg/L) 58,000
Electric Stab (V)		X Lime (lb/bbl) 0.1	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 3,852.84		Cum Mud Field Est (Cost) 111,986.17
Wellbore Design											
Casing Description				Run Date		OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ftKB)	Length (ft)
CONDUCTOR				10/12/2014		20	94.00	J-55	WELDED	110.0	80.00
SURFACE				10/16/2014		13 3/8	54.50	J-55	BUTTRESS THREAD	713.0	683.02
INTERMEDIATE				11/3/2014		9 5/8	40.00	J-55	LT&C	6,400.0	6,370.20
PLANNED PRODUCTION						5 1/2	17.00	P-110	LT&C	14,913.0	14,883.00
Survey Data											
MD (ftKB)	Incl (°)		Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)		
10,770	1.10		87.70	10,761	270.88	-158.30	220.00	0.28	0.00		
10,864	1.00		119.90	10,855	272.39	-158.67	221.61	0.63	-0.11		
10,958	1.80		178.00	10,949	274.14	-160.56	222.38	1.63	0.85		
11,053	1.80		181.40	11,044	275.98	-163.54	222.39	0.11	0.00		
11,146	1.40		187.20	11,137	277.42	-166.13	222.22	0.46	-0.43		
11,240	1.30		187.70	11,231	278.53	-168.32	221.93	0.11	-0.11		
11,335	1.00		181.30	11,326	279.56	-170.22	221.77	0.34	-0.32		
11,387	1.00		181.30	11,378	280.10	-171.13	221.74	0.00	0.00		
Mud Logging Information											
Lithology and Shows 10 SHALE, 10% LIMESTONE, 80% DOLOMITE								Max Trip Gas (units)		Avg Drill Gas (units) 65	
										Max Drill Gas (units) 1,111	
Geological Data											
Formation Name						Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	
SALADO						1,182					
YATES						1,861					
SEVEN RIVERS						2,007		2,007		2,005.5	
QUEEN						2,411					
GRAYBURG						3,084					
SAN ANDRES						3,389		3,389		3,384.2	
SPRABERRY UPPER						6,131		6,131		6,123.0	
SPRABERRY LOWER						6,704		6,704		6,695.9	
JO-MILL SAND						7,001		7,001		6,992.9	
DEAN						7,523		7,523		7,514.9	
WOLFCAMP A						7,693					
WOLFCAMP B						8,053					
WOLFCAMP C						8,396					
WOLFCAMP D						8,806		8,806		8,797.8	



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/10/2014
Report # 21
Projected Days 26
Drilling Days 12
Current Depth 11,387
Depth Progress 170
Planned VS 7,145
Current VS 280
AFE # DV02085
Total AFE 8,572,000

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
CISCO	9,611	9,610	9,601.6
CLINE	9,808	9,808	9,799.6
STRAWN	10,093	10,090	10,081.6
ATOKA	10,396	10,396	10,387.5
BARNETT	10,581	10,581	10,572.5
WOODFORD	10,714	10,714	10,705.5
DEVONIAN	10,791	10,790	10,781.5
ELLENBURGER	11,445		



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/11/2014
Report # 22
Projected Days 26
Drilling Days 13
Current Depth 11,980
Depth Progress 593
Planned VS 7,145
Current VS 280
AFE # DV02085
Total AFE 8,572,000

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS															
Report Summary																													
Well Spud 10/15/2014		TD Date		RR Date		Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth			Drilling AFE 3,365,300		Daily Field Est (Cost) 58,245		Cum Field Est (Cost) 2,135,724												
Status at Report Time DRILLING PILOT HOLE																													
Operations Summary TIH TO 11387', FILL PIPE AND CIRCULATE, ROTATE AND SLIDE 11387' TO11,980'										Planned Operations FINISH DRILLING PILOT HOLE TO 12,100', CIRCULATE & TOO H FOR LOGS																			
14' SOUTH / 14' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																													
Start MD (ftKB) 11,387				End MD (ftKB) 11,980				Depth Progress (ft) 593		Drilling Time (hr) 21.50		Avg ROP (ft/hr) 27.6		Time Since LTI (days) 1,200		Time Since RI (days) 1,200													
Daily 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		11,387		11,387		TIH TO 11387', FILL PIPE AND CIRCULATE. ROTATE/SLIDE DRILL FROM 11,387' - 11,980', 593' @ 28 FPH ROTATE DRILL 557' IN 19.5 HOURS, 29 FPH AVERAGE ROP SLIDE DRILL 37' IN 2 HOUR, 19 FPH AVERAGE ROP ROTATE 94% SLIDE 6% (FULL RETURNS)				PILOT	VERT	DRILL	TRIPS	Yes											
07:00		07:30		0.50		11,387		11,387						PILOT	VERT	DRILL	COND MUD & CIRC	Yes											
07:30		05:00		21.50		11,387		11,980						PILOT	VERT	DRILL	DRILL W/ MUD												
Drilling Parameters																													
Start Depth (ftKB)		End Depth (ftKB)		Rot Time (hr)		Slide Time (hr)		Int ROP (ft/hr)		TFO (°)		dP (SPP) (psi)		WOB (1000lbf)		Q Rate (gpm/cfm)		SPP (psi)		RPM (rpm)		PU Str Wt (1000lbf)		SO Str Wt (1000lbf)		Drill Tq			
11,387		11,396		0.00		1.00		9.0		270		100		15		544		2,100.0		0		310		260		15,000			
11,396		11,411		0.50		0.00		30.0				400		20		544		2,300.0		50		310		260					
11,411		11,423		0.00		1.00		12.0		270		250		15		544		2,300.0		0		310		260					
11,423		11,441		0.50		0.00		36.0				400		20		544		2,300.0		50		310		260		15,000			
11,441		11,456		0.00		0.50		30.0		270		200		20		544		2,300.0		0		310		260					
11,456		11,980		18.00		0.00		29.1				400		30		544		2,350.0		60		310		260		15,000			
Bit Information																													
Size (in)		Make		Model		Type		Dull Out		Depth In (ftKB)		Depth Out (ftKB)		Depth Drilled This Job (ft)		Job Drill Hrs (hr)		Avg ROP (ft/hr)		Rot Time (hr)		Slide Time (hr)		Rot ROP (ft/hr)		WOB Max (1000lbf)		Max RPM (rpm)	
8 3/4		HALLIBURTON		MM65DM		PDC		0-0-WT-A-X-0-NO-DMF		10,894		11,387		493.00		25.50		19.3		8.00		17.50		31.6		30		207	
8 3/4		HALLIBURTON		MM65DM		PDC		-----		11,387		11,980		593.00		21.50		27.6		19.00		2.50		29.3		30		217	
Current BHA Components																													
BHA No		Item Description						Make		Model		OD (in)		Jts		Length (ft)		Top Thread											
5		DRILL PIPE						ARCHER		POSITIVE PULSE		5		348		11,250.24		IF											
5		HWDP										5		18		544.36		IF											
5		XO SUB										6 1/4		1		1.74		IF											
5		DRILL COLLAR - NON MAG										6		3		92.20		XH											
5		XO SUB										6 13/16		1		2.83		XH											
5		NMDC										6 13/16		1		29.21		IF											
5		MWD - DIR & LOGGING										2				0.00		IF											
5		NMDC										6 13/16		1		31.06		IF											
5		UBHO SUB										6 1/2		1		3.11		IF											
5		MUD MOTOR										ARCHER		24X		6 3/4		1		24.25		XH							
Mud Reports																													
Time 11:59		Type WATER BASE		Depth (ftKB) 11,463		Density (lb/gal) 9.30		Vis (s/qt) 38		PV Calc (cP) 10.0		YP Calc (lb/100ft²) 20		Vis 3rpm 6		Vis 6rpm 7		LGS (%) 3.2		LCM (lb/bbl)		Chlor (mg/L) 60,000		Oil Water Ratio 0/100					
Electric Stab (V)		X Lime (lb/bbl) 0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 712.7		Daily Mud Field Est (Cost) 3,931.92		Cum Mud Field Est (Cost) 115,918.09													
Time 23:59		Type WATER BASE		Depth (ftKB) 11,820		Density (lb/gal) 9.30		Vis (s/qt) 38		PV Calc (cP) 10.0		YP Calc (lb/100ft²) 19		Vis 3rpm 6		Vis 6rpm 7		LGS (%) 3.4		LCM (lb/bbl)		Chlor (mg/L) 58,000		Oil Water Ratio 0/100					
Electric Stab (V)		X Lime (lb/bbl) 0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl) 25.0		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost) 3,931.92		Cum Mud Field Est (Cost) 115,918.09													
Wellbore Design																													
Casing Description						Run Date		OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)											
CONDUCTOR						10/12/2014		20		94.00		J-55		WELDED		110.0		76.00											
SURFACE						10/16/2014		13 3/8		54.50		J-55		BUTTRESS THREAD		713.0		680.02											
INTERMEDIATE						11/3/2014		9 5/8		40.00		J-55		LT&C		6,400.0		6,367.01											
PLANNED PRODUCTION								5 1/2		17.00		P-110		LT&C		14,913.0		14,883.00											
Survey Data																													
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)													
11,335		1.00		181.30		11,326		279.03		-170.22		221.77		0.34		-0.32													
11,429		1.50		203.70		11,420		279.92		-172.17		221.25		0.73		0.53													
11,523		1.50		227.70		11,514		280.14		-174.12		219.85		0.66		0.00													
11,617		1.50		223.20		11,608		279.95		-175.85		218.10		0.13		0.00													
11,712		1.50		222.90		11,703		279.87		-177.66		216.40		0.01		0.00													
11,806		1.80		221.50		11,797		279.82		-179.67		214.58		0.32		0.32													
11,900		1.80		216.50		11,891		279.92		-181.96		212.73		0.17		0.00													
11,980		1.80		216.50		11,971		280.12		-183.98		211.23		0.00		0.00													
Mud Logging Information																													
Lithology and Shows 100% DOLOMITE										Max Trip Gas (units)		Avg Drill Gas (units) 1,733		Max Drill Gas (units) 2,293															
Geological Data																													
Formation Name								Prog Top TVD (ftKB)				Drill Top MD (ftKB)				Drill Top (TVD) (ftKB)													
SALADO								1,182																					
YATES								1,861				1,887				1,886.1													
SEVEN RIVERS								2,007				2,030				2,028.4													
QUEEN								2,411				2,443				2,440.1													
GRAYBURG								3,084				3,104				3,100.0													
SAN ANDRES								3,389				3,402				3,397.2													
SPRABERRY UPPER								6,131				6,110				6,102.0													
SPRABERRY LOWER								6,704				6,687				6,679.0													
JO-MILL SAND								7,001				6,990				6,981.9													
DEAN								7,523				7,508				7,499.9													
WOLFCAMP A								7,693				7,678				7,669.9													
WOLFCAMP B								8,053				8,044				8,035.8													
WOLFCAMP C								8,396				8,403				8,394.8													
WOLFCAMP D								8,806				8,806				8,797.8													
CISCO								9,611				9,622				9,613.6													
CLINE								9,808				9,836				9,827.6													
STRAWN								10,093				10,124				10,115.6													
ATOKA								10,396				10,469				10,460.5													
BARNETT								10,581				10,680				10,671.5													
WOODFORD								10,714				10,818				10,809.5													
DEVONIAN								10,791				10,880				10,871.5													



UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date	11/11/2014
Report #	22
Projected Days	26
Drilling Days	13
Current Depth	11,980
Depth Progress	593
Planned VS	7,145
Current VS	280
AFE #	DV02085
Total AFE	8,572,000

Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
ELLENBURGER	11,445	11,520	11,511.3



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/12/2014
Report # 23
Projected Days 26
Drilling Days 14
Current Depth 12,100
Depth Progress 120
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS													
Report Summary																											
Well Spud 10/15/2014		TD Date		RR Date		Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth			Drilling AFE 3,365,300		Daily Field Est (Cost) 75,753		Cum Field Est (Cost) 2,211,477										
Status at Report Time TRIPPING OUT OF HOLE																											
Operations Summary ROTATE AND SLIDE 11980' TO 12100', CIRCULATE, SHORT TRIP F/12,100' - 11,000' , CIRCULATE, PUMP 400 BBLS HIGH VIS SWEEP, SLUG & TOOHP F/12,100' - 4,500'										Planned Operations FINISH TOOHP, L/D DIRECTIONAL BHA, R/U & RUN LOGS																	
15' SOUTH / 18' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																											
Start MD (ftKB) 11,980				End MD (ftKB) 12,100				Depth Progress (ft) 120		Drilling Time (hr) 4.00		Avg ROP (ft/hr) 30.0		Time Since LTI (days) 1,201		Time Since RI (days) 1,201											
Daily 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	11,980	12,100	ROTATE/SLIDE DRILL FROM 11,980' - 12,100', 120' @ 30 FPH ROTATE DRILL 120' IN 4 HOURS, 30 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS) 12,100' IS TD FOR PILOT HOLE						PILOT	VERT	DRILL	DRILL W/ MUD													
09:00	10:30	1.50	12,100	12,100	PUMP 2 HI-VIS SWEEPS AND CIRCULATE HOLE CLEAN WHILE WORKING PIPE, BUILD SLUG, TORQUE STAYED THE SAME WHILE CIRCULATING, THIS IS COMMON IN BRINE.						PILOT	VERT	DRILL	COND MUD & CIRC													
10:30	13:30	3.00	12,100	12,100	CHECK FLOW, PUMP SLUG, SHORT TRIP 12,100' TO 11,000, WORK TIGHT SPOT 11,661' TO 11,598'.						PILOT	VERT	DRILL	TRIPS													
13:30	14:30	1.00	12,100	12,100	TIH 11,000' TO 12,100' NO PROBLEMS.						PILOT	VERT	DRILL	TRIPS													
14:30	00:00	9.50	12,100	12,100	PUMP 2 HI-VIS SWEEPS AND CIRCULATE HOLE CLEAN, CHECK FLOW, SPOT 400 BBL HI-VIS SWEEP IN OPEN HOLE. & SLUG (TORQUE REMAINED THE SAME THRU OUT THE CIRCULATION)						PILOT	VERT	DRILL	COND MUD & CIRC													
00:00	05:00	5.00	12,100	12,100	TOOH F/12,100' - 4,500' (PROPER FILL ON TRIP)						PILOT	VERT	DRILL	TRIPS													
Drilling Parameters																											
Start Depth (ftKB) 11,980		End Depth (ftKB) 12,100		Rot Time (hr) 4.00		Slide Time (hr) 0.00		Int ROP (ft/hr) 30.0		TFO (°) 		dP (SPP) (psi) 400		WOB (1000lbf) 32		Q Rate (gpm/cfm) 544		SPP (psi) 2,250.0		RPM (rpm) 60		PU Str Wt (1000lbf) 320		SO Str Wt (1000lbf) 280		Drill Tq 20,000	
Bit Information																											
Size (in)	Make		Model		Typ		Dull Out			Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)								
8 3/4	HALLIBURTON		MM65DM		PDC		0-0-WT-A-X-0-NO-DMF			10,894	11,387	493.00	25.50	19.3	8.00	17.50	31.6	30	207								
8 3/4	HALLIBURTON		MM65DM		PDC		-----			11,387	12,100	713.00	25.50	28.0	23.00	2.50	29.4	32	217								
Current BHA Components																											
BHA No		Item Description					Make		Model		OD (in)		Jts		Length (ft)		Top Thread										
5		DRILL PIPE					ARCHER		POSITIVE PULSE		5		348		11,250.24		IF										
5		HWDP									5		18		544.36		IF										
5		XO SUB									6 1/4		1		1.74		IF										
5		DRILL COLLAR - NON MAG									6		3		92.20		XH										
5		XO SUB									6 13/16		1		2.83		XH										
5		NMDC									6 13/16		1		29.21		IF										
5		MWD - DIR & LOGGING									2				0.00		IF										
5		NMDC									6 13/16		1		31.06		IF										
5		UBHO SUB									6 1/2		1		3.11		IF										
5		MUD MOTOR									ARCHER		24X		6 3/4		1		24.25		XH						
Mud Reports																											
Time 11:59		Type WATER BASE		Depth (ftKB) 12,100		Density (lb/gal) 9.30		Vis (s/qt) 38		PV Calc (cP) 10.0		YP Calc (lbf/100ft²) 18		Vis 3rpm 5		Vis 6rpm 6		LGS (%) 3.4		LCM (lb/bbl)		Chlor (mg/L) 57,000		Oil Water Ratio 0/100			
Electric Stab (V)		X Lime (lb/bbl)		0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost) 4,702.86		Cum Mud Field Est (Cost) 120,620.95									
Time 23:59		Type WATER BASE		Depth (ftKB) 12,100		Density (lb/gal) 9.40		Vis (s/qt) 38		PV Calc (cP) 10.0		YP Calc (lbf/100ft²) 21		Vis 3rpm 6		Vis 6rpm 7		LGS (%) 4.2		LCM (lb/bbl)		Chlor (mg/L) 57,000		Oil Water Ratio 0/100			
Electric Stab (V)		X Lime (lb/bbl)		0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost) 4,702.86		Cum Mud Field Est (Cost) 120,620.95									
Wellbore Design																											
Casing Description						Run Date		OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)									
CONDUCTOR						10/12/2014		20		94.00		J-55		WELDED		110.0		76.00									
SURFACE						10/16/2014		13 3/8		54.50		J-55		BUTTRESS THREAD		713.0		680.02									
INTERMEDIATE						11/3/2014		9 5/8		40.00		J-55		LT&C		6,400.0		6,367.01									
PLANNED PRODUCTION								5 1/2		17.00		P-110		LT&C		14,913.0		14,883.00									
Survey Data																											
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)											
11,523		1.50		227.70		11,514		279.97		-174.12		219.85		0.66		0.00											
11,617		1.50		223.20		11,608		279.81		-175.85		218.10		0.13		0.00											
11,712		1.50		222.90		11,703		279.76		-177.66		216.40		0.01		0.00											
11,806		1.80		221.50		11,797		279.74		-179.67		214.58		0.32		0.32											
11,900		1.80		216.50		11,891		279.88		-181.96		212.73		0.17		0.00											
11,994		1.60		216.20		11,985		280.14		-184.21		211.07		0.21		-0.21											
12,056		1.60		219.40		12,047		280.25		-185.58		210.01		0.14		0.00											
12,100		1.60		219.40		12,091		280.30		-186.53		209.23		0.00		0.00											
Mud Logging Information																											
Lithology and Shows 100% DOLOMITE									Max Trip Gas (units)			Avg Drill Gas (units) 1,651			Max Drill Gas (units) 2,332												
Geological Data																											
Formation Name								Prog Top TVD (ftKB)				Drill Top MD (ftKB)				Drill Top (TVD) (ftKB)											
SALADO								1,182																			
YATES								1,861				1,887				1,886.1											
SEVEN RIVERS								2,007				2,030				2,028.4											
QUEEN								2,411				2,443				2,440.1											
GRAYBURG								3,084				3,104				3,100.0											
SAN ANDRES								3,389				3,402				3,397.2											
SPRABERRY UPPER								6,131				6,110				6,102.0											
SPRABERRY LOWER								6,704				6,687				6,679.0											
JO-MILL SAND								7,001				6,990				6,981.9											
DEAN								7,523				7,508				7,499.9											
WOLFCAMP A								7,693				7,678				7,669.9											
WOLFCAMP B								8,053				8,044				8,035.8											
WOLFCAMP C								8,396				8,403				8,394.8											
WOLFCAMP D								8,806				8,806				8,797.8											
CISCO								9,611				9,622				9,613.6											
CLINE								9,808				9,836				9,827.6											
STRAWN								10,093				10,124				10,115.6											



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/12/2014
Report # 23
Projected Days 26
Drilling Days 14
Current Depth 12,100
Depth Progress 120
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
ATOKA	10,396	10,469	10,460.5
BARNETT	10,581	10,680	10,671.5
WOODFORD	10,714	10,818	10,809.5
DEVONIAN	10,791	10,880	10,871.5
ELLENBURGER	11,445	11,520	11,511.3



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/14/2014
Report # 25
Projected Days 26
Drilling Days 16
Current Depth 11,980
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS				
Report Summary																		
Well Spud 10/15/2014		TD Date	RR Date	Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth				Drilling AFE 3,365,300		Daily Field Est (Cost) 48,505		Cum Field Est (Cost) 2,315,187		
Status at Report Time RUNNING SIDE WALL CORES																		
Operations Summary RUN OPEN HOLE LOGS & SIDE WALL CORES								Planned Operations FINISH SIDE WALL CORES, MU AND TIH WITH THRU BIT LOGGING ASSEMBLY & LOG OPEN HOLE										
15' SOUTH / 18' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																		
Start MD (ftKB) 11,980			End MD (ftKB) 11,980			Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)		Time Since LTI (days) 1,203		Time Since RI (days) 1,203				
Daily Time Log																		
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments					Hole Section	Interval	Category	Activity		NPT			
05:00	10:30	5.50	12,100	12,100	REMOVE UBI TOOL FROM TRIPLE COMBO AND RERUN TRIPLE COMBO. HIT BRIDGE AT 10,525 (COULD NOT GET THROUGH BRIDGE). PULLED OUT OF HOLE AND LAID DOWN TRIPLE COMBO.					PILOT	VERT	EVAL	OPEN HOLE LOGS					
10:30	20:00	9.50	12,100	12,100	PICK UP AND RUN SONIC SCANNER AND FMI LOGS (TAGGED BRIDGE AT 10,525). LOG FROM 10,525					PILOT	VERT	EVAL	OPEN HOLE LOGS					
20:00	00:00	4.00	12,100	12,100	BREAKDOWN FMI LOGGING TOOLS & RIG UP CORING TOOLS					PILOT	VERT	EVAL	OPEN HOLE LOGS					
00:00	01:00	1.00	12,100	12,100	RUN IN HOLE WITH CORING TOOLS (TOOL LOSING SIGNAL TROUBLE SHOOT, BAD WIRE CONTACT FOUND)					PILOT	VERT	EVAL	OPEN HOLE LOGS					
01:00	03:00	2.00	12,100	12,100	PULL & L/D CORING TOOL SWAP OVER TO BACK UP REEL FUNCTION TEST SIGNAL TO TOOL (GOOD)					PILOT	VERT	EVAL	OPEN HOLE LOGS		Yes			
03:00	05:00	2.00	12,100	12,100	RUN IN HOLE WITH CORING TOOLS FOR SIDE WALL CORES					PILOT	VERT	EVAL	OPEN HOLE LOGS					
Drilling Parameters																		
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)		WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq				
NPT																		
Problem Type DOWNHOLE EQUIPMENT			Problem Sub Type LOGGING TOOLS			Description BAD ELECTRICAL ON CORING TOOLS			Start Date 11/14/2014		End Date 11/14/2014		Dur (hr) 2.00	Failed Item		Accountable Party SCHLUMBERGER US LAND		
Bit Information																		
Size (in)	Make		Model	Type	Dull Out		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)		
8 3/4	HALLIBURTON		MM65DM	PDC	0-0-WT-A-X-0-NO-DMF		10,894	11,387	493.00	25.50	19.3	8.00	17.50	31.6	30	207		
8 3/4	HALLIBURTON		MM65DM	PDC	0-0-BT-G-X-0-BT-TD		11,387	12,100	713.00	25.50	28.0	23.00	2.50	29.4	32	217		
Current BHA Components																		
BHA No	Item Description					Make		Model		OD (in)		Jts	Length (ft)		Top Thread			
5	DRILL PIPE					ARCHER		POSITIVE PULSE		5	348	11,250.24		IF				
5	HWDP									5	18	544.36		IF				
5	XO SUB									6 1/4	1	1.74		IF				
5	DRILL COLLAR - NON MAG									6	3	92.20		XH				
5	XO SUB									6 13/16	1	2.83		XH				
5	NMDC									6 13/16	1	29.21		IF				
5	MWD - DIR & LOGGING									2		0.00		IF				
5	NMDC									6 13/16	1	31.06		IF				
5	UBHO SUB									6 1/2	1	3.11		IF				
5	MUD MOTOR									ARCHER	24X	6 3/4	1	24.25		XH		
Mud Reports																		
Time 23:59	Type WATER BASE		Depth (ftKB) 12,100		Density (lb/gal) 9.30		Vis (s/qt) 51	PV Calc (cP) 14.0		YP Calc (lbf/100ft²) 23	Vis 3rpm 8	Vis 6rpm 9	LGS (%) 2.9	LCM (lb/bbl)	Chlor (mg/L) 63,000	Oil Water Ratio 0/100		
Electric Stab (V)		X Lime (lb/bbl) 0.1		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost) 900.00		Cum Mud Field Est (Cost) 123,928.66		
Wellbore Design																		
Casing Description				Run Date			OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)	
CONDUCTOR				10/12/2014			20		94.00		J-55		WELDED		110.0		76.00	
SURFACE				10/16/2014			13 3/8		54.50		J-55		BUTTRESS THREAD		713.0		680.02	
INTERMEDIATE				11/3/2014			9 5/8		40.00		J-55		LT&C		6,400.0		6,367.01	
PLANNED PRODUCTION							5 1/2		17.00		P-110		LT&C		14,913.0		14,883.00	
Survey Data																		
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)		
11,523		1.50		227.70		11,514		279.97		-174.12		219.85		0.66		0.00		
11,617		1.50		223.20		11,608		279.81		-175.85		218.10		0.13		0.00		
11,712		1.50		222.90		11,703		279.76		-177.66		216.40		0.01		0.00		
11,806		1.80		221.50		11,797		279.74		-179.67		214.58		0.32		0.32		
11,900		1.80		216.50		11,891		279.88		-181.96		212.73		0.17		0.00		
11,994		1.60		216.20		11,985		280.14		-184.21		211.07		0.21		-0.21		
12,056		1.60		219.40		12,047		280.25		-185.58		210.01		0.14		0.00		
12,100		1.60		219.40		12,091		280.30		-186.53		209.23		0.00		0.00		
Mud Logging Information																		
Lithology and Shows									Max Trip Gas (units)			Avg Drill Gas (units)			Max Drill Gas (units)			
Geological Data																		
Formation Name								Prog Top TVD (ftKB)			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				
SALADO								1,182										
YATES								1,861			1,887			1,886.1				
SEVEN RIVERS								2,007			2,030			2,028.4				
QUEEN								2,411			2,443			2,440.1				
GRAYBURG								3,084			3,104			3,100.0				
SAN ANDRES								3,389			3,402			3,397.2				
SPRABERRY UPPER								6,131			6,110			6,102.0				
SPRABERRY LOWER								6,704			6,687			6,679.0				
JO-MILL SAND								7,001			6,990			6,981.9				
DEAN								7,523			7,508			7,499.9				
WOLFCAMP A								7,693			7,678			7,669.9				
WOLFCAMP B								8,053			8,044			8,035.8				
WOLFCAMP C								8,396			8,403			8,394.8				
WOLFCAMP D								8,806			8,806			8,797.8				
CISCO								9,611			9,622			9,613.6				
CLINE								9,808			9,836			9,827.6				
STRAWN								10,093			10,124			10,115.6				
ATOKA								10,396			10,469			10,460.5				
BARNETT								10,581			10,680			10,671.5				
WOODFORD								10,714			10,818			10,809.5				
DEVONIAN								10,791			10,880			10,871.5				



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/14/2014
Report # 25
Projected Days 26
Drilling Days 16
Current Depth 11,980
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

Geological Data

Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
ELLENBURGER	11,445	11,520	11,511.3



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/15/2014
Report # 26
Projected Days 26
Drilling Days 17
Current Depth 12,100
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary								
Well Spud 10/15/2014	TD Date	RR Date	Target Formation WOLFCAMP-A	Prop TD (ftKB) 14,913	Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth	Drilling AFE 3,365,300	Daily Field Est (Cost) 357,350	Cum Field Est (Cost) 2,672,537

Status at Report Time						
TRIPPING IN HOLE						
Operations Summary				Planned Operations		
RUN OPEN HOLE SIDE WALL CORES, P/U & M/U THRU BIT ASSEMBLY & TIH T/3,500'				FINISH TIH T/12,100', CIRCULATE, R/U & RUN THRU BIT LOGS		
15' SOUTH / 18' WEST 1st WELL ON PAD						
BIG RIG SPUD DATE: 10/29/2014 AT 09:30						
NEXT WELL: UNIVERSITY 09 0802H, SKID						
Start MD (ftKB)	End MD (ftKB)	Depth Progress (ft)	Drilling Time (hr)	Avg ROP (ft/hr)	Time Since LTI (days)	Time Since RI (days)
12,100	12,100	0			1,204	1,204

Daily Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	22:30	17.50	12,100	12,100	RUN ROTARY SIDEWALL CORE TOOLS.(RETRIEVE 48 OF 50 SAMPLES) RIG DOWN LOGGING EQUIPMENT SAME	PILOT	VERT	EVAL	OPEN HOLE LOGS	
22:30	00:00	1.50	12,100	12,100	MEASRE AND CALIPER THRU BIT BHA, REMOVE LUBRCATOR & INSTALL TRIP NIPPLE (WHILE WAITNG ON THRU BIT TECH TO P/U BHA)	PILOT	VERT	EVAL	TRIPS	
00:00	02:00	2.00	12,100	12,100	P/U AND M/U THRU BIT LOGGING BHA AS PER TECH	PILOT	VERT	EVAL	TRIPS	
02:00	05:00	3.00	12,100	12,100	TRIP IN HOLE FROM 9' TO 3,500' (DROP RABBIT THRU EVERY STAND & FILLING UP EVERY 30 STANDS)	PILOT	VERT	EVAL	TRIPS	

Drilling Parameters													
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq
12,100	12,100	0.00	0.00										

Bit Information														
Size (in)	Make	Model	Type	Dull Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)
8 3/4	HALLIBURTON	MM65DM	PDC	0-0-BT-G-X-0-BT-TD	11,387	12,100	713.00	25.50	28.0	23.00	2.50	29.4	32	217
8 3/4	SMITH	TBRSE613PX	PDC	-----	12,100	12,100								

Current BHA Components									
BHA No	Item Description			Make	Model	OD (in)	Jts	Length (ft)	Top Thread
6	DRILL PIPE					5	357	11,546.43	IF
6	HWDP					5	18	544.36	IF
6	FLOAT SUB					6 3/4	1	5.11	IF
6	BIT SUB					6 9/16	1	3.00	IF

Mud Reports												
Time 23:59	Type WATER BASE	Depth (ftKB) 12,100	Density (lb/gal) 9.30	Vis (s/qt) 51	PV Calc (cP) 14.0	YP Calc (lbf/100ft²) 23	Vis 3rpm 8	Vis 6rpm 9	LGS (%) 3.1	LCM (lb/bbl)	Chlor (mg/L) 60,000	Oil Water Ratio 0/100
Electric Stab (V)	X Lime (lb/bbl) 0.1	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl) 737.7	Daily Mud Field Est (Cost) 1,580.19	Cum Mud Field Est (Cost) 125,508.86				

Wellbore Design							
Casing Description	Run Date	OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ftKB)	Length (ft)
CONDUCTOR	10/12/2014	20	94.00	J-55	WELDED	110.0	76.00
SURFACE	10/16/2014	13 3/8	54.50	J-55	BUTTRESS THREAD	713.0	680.02
INTERMEDIATE	11/3/2014	9 5/8	40.00	J-55	LT&C	6,400.0	6,367.01
PLANNED PRODUCTION		5 1/2	17.00	P-110	LT&C	14,913.0	14,883.00

Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)
11,523	1.50	227.70	11,514	279.97	-174.12	219.85	0.66	0.00
11,617	1.50	223.20	11,608	279.81	-175.85	218.10	0.13	0.00
11,712	1.50	222.90	11,703	279.76	-177.66	216.40	0.01	0.00
11,806	1.80	221.50	11,797	279.74	-179.67	214.58	0.32	0.32
11,900	1.80	216.50	11,891	279.88	-181.96	212.73	0.17	0.00
11,994	1.60	216.20	11,985	280.14	-184.21	211.07	0.21	-0.21
12,056	1.60	219.40	12,047	280.25	-185.58	210.01	0.14	0.00
12,100	1.60	219.40	12,091	280.30	-186.53	209.23	0.00	0.00

Mud Logging Information			
Lithology and Shows	Max Trip Gas (units)	Avg Drill Gas (units)	Max Drill Gas (units)

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO	1,182		
YATES	1,861	1,887	1,886.1
SEVEN RIVERS	2,007	2,030	2,028.4
QUEEN	2,411	2,443	2,440.1
GRAYBURG	3,084	3,104	3,100.0
SAN ANDRES	3,389	3,402	3,397.2
SPRABERRY UPPER	6,131	6,110	6,102.0
SPRABERRY LOWER	6,704	6,687	6,679.0
JO-MILL SAND	7,001	6,990	6,981.9
DEAN	7,523	7,508	7,499.9
WOLFCAMP A	7,693	7,678	7,669.9
WOLFCAMP B	8,053	8,044	8,035.8
WOLFCAMP C	8,396	8,403	8,394.8
WOLFCAMP D	8,806	8,806	8,797.8
CISCO	9,611	9,622	9,613.6
CLINE	9,808	9,836	9,827.6
STRAWN	10,093	10,124	10,115.6
ATOKA	10,396	10,469	10,460.5
BARNETT	10,581	10,680	10,671.5
WOODFORD	10,714	10,818	10,809.5
DEVONIAN	10,791	10,880	10,871.5
ELLENBURGER	11,445	11,520	11,511.3

AMERICAN ENERGY - PERMIAN BASIN LLC

Daily Drilling Partner Report

AMERICAN ENERGY
PARTNERS

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date	11/16/2014
Report #	27
Projected Days	26
Drilling Days	18
Current Depth	12,100
Depth Progress	0
Planned VS	7,145
Current VS	272
AFE #	DV02085
Total AFE	8,572,000

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS				
Report Summary																		
Well Spud 10/15/2014		TD Date	RR Date	Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth		Drilling AFE 3,365,300		Daily Field Est (Cost) 52,414		Cum Field Est (Cost) 2,724,951				
Status at Report Time CONTINUE THRU BIT LOGGING OPEN HOLE T/9,200"																		
Operations Summary TIH W/ THRU BIT ASSEMBLY T/12,100' , CIRCULATE, R/U & RUN THRU BIT LOGS T/9,200'								Planned Operations FINISH LOGGING T/6,390', POOH, L/D THRU BIT AND QUAD COMBO										
15' SOUTH / 18' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																		
Start MD (ftKB) 12,100			End MD (ftKB) 12,100			Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)		Time Since LTI (days) 1,205		Time Since RI (days) 1,205				
Daily 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	12,100	12,100	TRIP IN HOLE WITH THRU BIT ASSEMBLY. TAGGED BRIDGE AT 10,506,.					PILOT	VERT	EVAL	TRIPS					
11:00	11:30	0.50	12,100	12,100	WASH AND REAM FROM 10,506 TO 10,542.					PILOT	VERT	EVAL	REAMING					
11:30	12:30	1.00	12,100	12,100	TRIP IN HOLE TO 12060					PILOT	VERT	EVAL	TRIPS					
12:30	13:00	0.50	12,100	12,100	WASH AND REAM FROM 12060 TO 12,100					PILOT	VERT	EVAL	REAMING					
13:00	21:00	8.00	12,100	12,100	CIRCULATE OUT 400 BBL PILL LEFT ON BOTTOM FOR LOGS. PUMP TANDEM SWEEP AND CIRCULATE HOLE CLEAN.					PILOT	VERT	EVAL	COND MUD & CIRC					
21:00	22:30	1.50	12,100	12,100	RIG UP WIRE LINE TRUCK					PILOT	VERT	EVAL	OPEN HOLE LOGS					
22:30	01:00	2.50	12,100	12,100	GO IN THE HOLE WITH QUAD COMBO. SET TOOL AND POOH WITH WIRE LINE.					PILOT	VERT	EVAL	OPEN HOLE LOGS					
01:00	02:00	1.00	12,100	12,100	RIG DOWN WIRE LINE TRUCK / LAYDOWN A SINGLE AND PUMP SLUG					PILOT	VERT	EVAL	OPEN HOLE LOGS					
02:00	05:00	3.00	12,100	12,100	THRU BIT LOGGING ASSEMBLY & LOG OPEN HOLE F/ 12,100' - 9,200'					PILOT	VERT	EVAL	TRIPS					
Drilling Parameters																		
Start Depth (ftKB)		End Depth (ftKB)		Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)		WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wrt (1000lbf)	SO Str Wrt (1000lbf)	Drill Tq		
Bit Information																		
Size (in)	Make		Model		Type	Dull Out		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)	
8 3/4	HALLIBURTON		MM65DM		PDC	0-0-BT-G-X-0-BT-TD		11,387	12,100	713.00	25.50	28.0	23.00	2.50	29.4	32	217	
8 3/4	SMITH		TBRS613PX		PDC	-----		12,100	12,100									
Current BHA Components																		
BHA No		Item Description				Make		Model		OD (in)		Jts	Length (ft)		Top Thread			
6		DRILL PIPE								5		357	11,546.43		IF			
6		HWDP								5		18	544.36		IF			
6		FLOAT SUB								6 3/4		1	5.11		IF			
6		BIT SUB								6 9/16		1	3.00		IF			
Mud Reports																		
Time 23:59	Type WATER BASE		Depth (ftKB) 12,100		Density (lb/gal) 9.50		Vis (s/qt) 51	PV Calc (cP) 14.0		YP Calc (lb/100ft²) 20		Vis 3rpm 8	Vis 6rpm 9	LGS (%) 1.8	LCM (lb/bbl)	Chlor (mg/L) 60,000	Oil Water Ratio 0/100	
Electric Stab (V)		X Lime (lb/bbl)		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost) 2,152.08		Cum Mud Field Est (Cost) 127,660.94		
Wellbore Design																		
Casing Description					Run Date		OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)	
CONDUCTOR					10/12/2014		20		94.00		J-55		WELDED		110.0		76.00	
SURFACE					10/16/2014		13 3/8		54.50		J-55		BUTTRESS THREAD		713.0		680.02	
INTERMEDIATE					11/3/2014		9 5/8		40.00		J-55		LT&C		6,400.0		6,367.01	
PLANNED PRODUCTION							5 1/2		17.00		P-110		LT&C		14,913.0		14,883.00	
Survey Data																		
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)		
11,523		1.50		227.70		11,514		279.97		-174.12		219.85		0.66		0.00		
11,617		1.50		223.20		11,608		279.81		-175.85		218.10		0.13		0.00		
11,712		1.50		222.90		11,703		279.76		-177.66		216.40		0.01		0.00		
11,806		1.80		221.50		11,797		279.74		-179.67		214.58		0.32		0.32		
11,900		1.80		216.50		11,891		279.88		-181.96		212.73		0.17		0.00		
11,994		1.60		216.20		11,985		280.14		-184.21		211.07		0.21		-0.21		
12,056		1.60		219.40		12,047		280.25		-185.58		210.01		0.14		0.00		
12,100		1.60		219.40		12,091		280.30		-186.53		209.23		0.00		0.00		
Mud Logging Information																		
Lithology and Shows										Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)				
Geological Data																		
Formation Name								Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top TVD (ftKB)						
SALADO								1,182										
YATES								1,861		1,887		1,886.1						
SEVEN RIVERS								2,007		2,030		2,028.4						
QUEEN								2,411		2,443		2,440.1						
GRAYBURG								3,084		3,104		3,100.0						
SAN ANDRES								3,389		3,402		3,397.2						
SPRABERRY UPPER								6,131		6,110		6,102.0						
SPRABERRY LOWER								6,704		6,687		6,679.0						
JO-MILL SAND								7,001		6,990		6,981.9						
DEAN								7,523		7,508		7,499.9						
WOLFCAMP A								7,693		7,678		7,669.9						
WOLFCAMP B								8,053		8,044		8,035.8						
WOLFCAMP C								8,396		8,403		8,394.8						
WOLFCAMP D								8,806		8,806		8,797.8						
CISCO								9,611		9,622		9,613.6						
CLINE								9,808		9,836		9,827.6						
STRAWN								10,093		10,124		10,115.6						
ATOKA								10,396		10,469		10,460.5						
BARNETT								10,581		10,680		10,671.5						
WOODFORD								10,714		10,818		10,809.5						
DEVONIAN								10,791		10,880		10,871.5						
ELLENBURGER								11,445		11,520		11,511.3						



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/17/2014
Report # 28
Projected Days 26
Drilling Days 19
Current Depth 12,100
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS			
Report Summary																	
Well Spud 10/15/2014		TD Date	RR Date	Target Formation WOLFCAMP-A		Prop TD (ftKB) 14,913		Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth				Drilling AFE 3,365,300		Daily Field Est (Cost) 56,276		Cum Field Est (Cost) 2,781,226	
Status at Report Time PUMPING FIRST PLUG @ 11,450'																	
Operations Summary FINISH LOGGING T/6,390' , POOOH , L/D LOGGING TOOLS , P/U 32 JTS. 2 7/8 TUBING , TIH - 11,450' ,CIRC B/U PUMP CEMENT PLUGS								Planned Operations FINISH PUMPING CEMENT PLUGS ,CIRC. B/U , POOH , WAIT ON CEMENT									
15' SOUTH / 18' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID																	
Start MD (ftKB) 12,100			End MD (ftKB) 12,100			Depth Progress (ft) 0		Drilling Time (hr)			Avg ROP (ft/hr)		Time Since LTI (days) 1,206		Time Since RI (days) 1,206		
Daily 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	12,100	12,100	TRIP OUT OF HOLE AT 30' PER MINUTE WITH THRUBIT LOGGING TOOL (WHEN LOGGING TOOL REACHED CASING SHOE, SPED UP TO 100' PER MINUTE)				PILOT	VERT	EVAL	TRIPS		Yes			
11:30	13:00	1.50	12,100	12,100	LAY DOWN LOGGING TOOLS AND RIG DOWN LOGGERS				PILOT	VERT	EVAL	OPEN HOLE LOGS					
13:00	13:30	0.50	12,100	12,100	CLEAN RIG FLOOR				PILOT	PLUG	PILOT	TRIPS					
13:30	16:30	3.00	12,100	12,100	HOLD SAFETY MEETING, RIG UP TUBING TONGS, AND PICK UP 32 JOINTS 2 7/8 6.5# L-80 TUBING. RIG DOWN TUBING TONGS				PILOT	PLUG	PILOT	TRIPS					
16:30	22:30	6.00	12,100	12,100	TRIP IN HOLE TO 11,450 (111 STANDS OF 5" DP)				PILOT	PLUG	PILOT	TRIPS					
22:30	23:30	1.00	12,100	12,100	BREAK CIRCULATION AND CIRCULATE B/U				PILOT	PLUG	PILOT	COND MUD & CIRC					
23:30	00:30	1.00	12,100	12,100	CIRCULATE WHILE RIGGING UP UNIVERSAL CEMENT EQUIPMENT				PILOT	PLUG	PILOT	COND MUD & CIRC					
00:30	01:00	0.50	12,100	12,100	HELD SAFETY MEETING W/ CO-REP,RIG HANDS AND UNIVERSAL				PILOT	PLUG	PILOT	SAFETY MEETING					
01:00	04:00	3.00	12,100	12,100	TROUBLE SHOOT CEMENT TRUCK PONY MOTOR WILL NOT START(GOT MOTOR STARTED ,WARM MOTOR UP ,THAW OUT FROZEN LINES CONTINUE WITH JOB)				PILOT	PLUG	PILOT	RUN CEMENT					
04:00	05:00	1.00	12,100	12,100	FIRST PLUG @11,450' PUMP 36 BBL FRESH WATER SPACER , 90 SKS (19BBLs) CEMENT @ 15.6 PPG. 3 BBLs FREASH WATER DISPALCE 186 BBLs ACTIVE SYSTEM				PILOT	PLUG	PILOT	RUN CEMENT					
Drilling Parameters																	
Start Depth (ftKB)		End Depth (ftKB)		Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)		WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	
NPT																	
Problem Type OTHER			Problem Sub Type CEMENT			Description FROZEN LINES			Start Date 11/17/2014		End Date 11/17/2014		Dur (hr) 3.00	Failed Item		Accountable Party UNIVERSAL PRESSURE PUMPING INC	
Bit Information																	
Size (in)	Make		Model	Type	Dull Out		Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)	
8 3/4	HALLIBURTON		MM65DM	PDC	0-0-BT-G-X-0-BT-TD		11,387	12,100	713.00	25.50	28.0	23.00	2.50	29.4	32	217	
8 3/4	SMITH		TBRSE613PX	PDC	-----		12,100	12,100									
Current BHA Components																	
BHA No	Item Description					Make		Model		OD (in)		Jts	Length (ft)		Top Thread		
7	DRILL PIPE									5		332	10,457.50		IF		
7	XO SUB									5		1	2.05				
7	DRILL PIPE									2 7/8		32	988.36				
7	SHOE 1									2 7/8		1	2.05				
Mud Reports																	
Time 23:59	Type WATER BASE		Depth (ftKB) 12,100		Density (lb/gal) 9.65	Vis (s/qt) 44		PV Calc (cP) 13.0	YP Calc (lb/100ft²) 18		Vis 3rpm 7	Vis 6rpm 8	LGS (%) 3.7	LCM (lb/bbl)	Chlor (mg/L) 61,000	Oil Water Ratio 9.5/90.5	
Electric Stab (V)		X Lime (lb/bbl)		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 127,660.94	
Time 23:59	Type WATER BASE		Depth (ftKB)		Density (lb/gal)	Vis (s/qt)		PV Calc (cP)		YP Calc (lb/100ft²)		Vis 3rpm	Vis 6rpm	LGS (%)	LCM (lb/bbl)	Chlor (mg/L)	Oil Water Ratio
Electric Stab (V)		X Lime (lb/bbl)		HTHP Filtrate (mL/30min)		HTHP FC (1/32")		T HTHP (°F)		Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl) 737.7		Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 127,660.94	
Wellbore Design																	
Casing Description					Run Date		OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)	Length (ft)	
CONDUCTOR					10/12/2014		20		94.00		J-55		WELDED		110.0	76.00	
SURFACE					10/16/2014		13 3/8		54.50		J-55		BUTTRESS THREAD		713.0	680.02	
INTERMEDIATE					11/3/2014		9 5/8		40.00		J-55		LT&C		6,400.0	6,367.01	
PLANNED PRODUCTION							5 1/2		17.00		P-110		LT&C		14,913.0	14,883.00	
Survey Data																	
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)	
11,523		1.50		227.70		11,514		279.97		-174.12		219.85		0.66		0.00	
11,617		1.50		223.20		11,608		279.81		-175.85		218.10		0.13		0.00	
11,712		1.50		222.90		11,703		279.76		-177.66		216.40		0.01		0.00	
11,806		1.80		221.50		11,797		279.74		-179.67		214.58		0.32		0.32	
11,900		1.80		216.50		11,891		279.88		-181.96		212.73		0.17		0.00	
11,994		1.60		216.20		11,985		280.14		-184.21		211.07		0.21		-0.21	
12,056		1.60		219.40		12,047		280.25		-185.58		210.01		0.14		0.00	
12,100		1.60		219.40		12,091		280.30		-186.53		209.23		0.00		0.00	
Mud Logging Information																	
Lithology and Shows										Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)			
Geological Data																	
Formation Name								Prog Top TVD (ftKB)		Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				
SALADO								1,182									
YATES								1,861		1,887			1,886.1				
SEVEN RIVERS								2,007		2,030			2,028.4				
QUEEN								2,411		2,443			2,440.1				
GRAYBURG								3,084		3,104			3,100.0				
SAN ANDRES								3,389		3,402			3,397.2				
SPRABERRY UPPER								6,131		6,110			6,102.0				
SPRABERRY LOWER								6,704		6,687			6,679.0				
JO-MILL SAND								7,001		6,990			6,981.9				
DEAN								7,523		7,508			7,499.9				
WOLFCAMP A								7,693		7,678			7,669.9				
WOLFCAMP B								8,053		8,044			8,035.8				
WOLFCAMP C								8,396		8,403			8,394.8				
WOLFCAMP D								8,806		8,806			8,797.8				
CISCO								9,611		9,622			9,613.6				
CLINE								9,808		9,836			9,827.6				
STRAWN								10,093		10,124			10,115.6				
ATOKA								10,396		10,469			10,460.5				
BARNETT								10,581		10,680			10,671.5				



UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date	11/17/2014
Report #	28
Projected Days	26
Drilling Days	19
Current Depth	12,100
Depth Progress	0
Planned VS	7,145
Current VS	272
AFE #	DV02085
Total AFE	8,572,000

Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
WOODFORD	10,714	10,818	10,809.5
DEVONIAN	10,791	10,880	10,871.5
ELLENBURGER	11,445	11,520	11,511.3



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H

AEPB WELL NO. 22
ENSIGN 760

Report Date 11/18/2014
Report # 29
Projected Days 26
Drilling Days 20
Current Depth 12,100
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary								
Well Spud 10/15/2014	TD Date	RR Date	Target Formation WOLFCAMP-A	Prop TD (ftKB) 14,913	Target Line 7833' TVD @ 0' VS w/90.19° Inc and 1.19° Azimuth	Drilling AFE 3,365,300	Daily Field Est (Cost) 77,888	Cum Field Est (Cost) 2,857,114

Status at Report Time WAIT ON CEMENT

Operations Summary FINISH PUMPING CEMENT PLUGS , POOH ,LAY DOWN TUBING ,TIH TO 6,387' ,WAIT ON CEMENT	Planned Operations WAIT ON CEMENT , TIH TO TOP OF CEMENT, DRESS OF CEMENT ,POOH
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15' SOUTH / 18' WEST 1st WELL ON PAD BIG RIG SPUD DATE: 10/29/2014 AT 09:30 NEXT WELL: UNIVERSITY 09 0802H, SKID								
Start MD (ftKB) 12,100	End MD (ftKB) 12,100	Depth Progress (ft) 0	Drilling Time (hr)	Avg ROP (ft/hr)	Time Since LTI (days) 1,207	Time Since RI (days) 1,207		

Daily 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	12,100	12,100	PUMP FIRST PLUG WITH 36 BBLS FRESH WATER, 90 SX PREMIUM @ 15.6 PPG, AND DISPLACE WITH 3 BBLS WATER AND 170 BBLS MUD FROM ACTIVE SYSTEM. BOTTOM OF PLUG AT 11,450. TOP OF PLUG AT 11,225.	PILOT	PLUG	PILOT	RUN CEMENT	
06:00	07:00	1.00	12,100	12,100	PULLED 14 STANDS AND 1 SINGLE AND RIG UP CEMENTERS	PILOT	PLUG	PILOT	TRIPS	
07:00	08:30	1.50	12,100	12,100	PUMP SECOND PLUG WITH 36 BBLS FRESH WATER, 90 SX PREMIUM @ 15.6 PPG, AND DISPLACE WITH 3 BBLS WATER AND 150 BBLS MUD FROM ACTIVE SYSTEM. BOTTOM OF PLUG AT 10,100. TOP OF PLUG AT 9875.	PILOT	PLUG	PILOT	RUN CEMENT	
08:30	10:30	2.00	12,100	12,100	PULL 5 STANDS, PUMP 300 STKS, PULL 18 MORE STANDS AND 1 SINGLE, AND RIG UP CEMENTERS.	PILOT	PLUG	PILOT	TRIPS	
10:30	12:00	1.50	12,100	12,100	PUMP THIRD PLUG WITH 36 BBLS FRESH WATER, 140 SX PREMIUM @ 17.2 PPG, AND DISPLACE WITH 3 BBLS WATER AND 104 BBLS MUD FROM ACTIVE SYSTEM. BOTTOM OF PLUG AT 7900. TOP OF PLUG AT 7600.	PILOT	PLUG	PILOT	RUN CEMENT	
12:00	12:30	0.50	12,100	12,100	PULL 4 STANDS AND 1 SINGLE TO 7500'	PILOT	PLUG	PILOT	TRIPS	
12:30	13:30	1.00	12,100	12,100	PUMP FOURTH PLUG WITH 36 BBLS FRESH WATER, 250 SX PREMIUM @ 17.2 PPG, AND DISPLACE WITH 3 BBLS WATER AND 80 BBLS MUD FROM ACTIVE SYSTEM. BOTTOM OF PLUG AT 7500. TOP OF PLUG AT 7000.	PILOT	PLUG	PILOT	RUN CEMENT	
13:30	14:30	1.00	12,100	12,100	PULL 7 STANDS	PILOT	PLUG	PILOT	TRIPS	
14:30	16:00	1.50	12,100	12,100	CIRCULATE SURFACE TO SURFACE	PILOT	PLUG	PILOT	COND MUD & CIRC	
16:00	22:00	6.00	12,100	12,100	TRIP OUT OF HOLE TO 2 7/8 TUBING	PILOT	PLUG	PILOT	TRIPS	
22:00	04:30	6.50	12,100	12,100	CLEAN RIG FLOOR MAKE UP BHA #8 TIH TO 6,387'	PILOT	PLUG	PILOT	TRIPS	
04:30	05:00	0.50	12,100	12,100	HAND THE BLOCKS PREP TO SLIP AND CUT DRILL LINE	PILOT	PLUG	PILOT	CUT SLIP & DRILL LINE	

Drilling Parameters													
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq

Bit Information														
Size (in)	Make	Model	Type	Dull Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lbf)	Max RPM (rpm)
8 3/4	SMITH	FH121	INSERT	-----										

Current BHA Components									
BHA No	Item Description			Make	Model	OD (in)	Jts	Length (ft)	Top Thread
8	DRILL PIPE					5	182	5,746.50	
8	HWDP					5	18	544.36	IF
8	XO SUB					6 1/2	1	1.74	
8	DRILL COLLAR - PONY					6 1/2	3	92.20	XH
8	BIT SUB						1	4.40	IF

Time	Type	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)	Vis 3rpm	Vis 6rpm	LGS (%)	LCM (lb/bbl)	Chlor (mg/L)	Oil Water Ratio
23:59	WATER BASE	12,100	9.65	47	12.0	22	7	8	3.7		60,000	9.5/90.5
Electric Stab (V)	X Lime (lb/bbl)	HTHP Filtrate (mL/30min)	HTHP FC (1/32")	T HTHP (°F)	Mud Lost to Hole (bbl)	Cum Mud Lost to Hole (bbl)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)				
						737.7	1,750.00	129,410.94				

Wellbore Design							
Casing Description	Run Date	OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ftKB)	Length (ft)
CONDUCTOR	10/12/2014	20	94.00	J-55	WELDED	110.0	76.00
SURFACE	10/16/2014	13 3/8	54.50	J-55	BUTTRESS THREAD	713.0	680.02
INTERMEDIATE	11/3/2014	9 5/8	40.00	J-55	LT&C	6,400.0	6,367.01
PLANNED PRODUCTION		5 1/2	17.00	P-110	LT&C	14,913.0	14,883.00

Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)
11,523	1.50	227.70	11,514	279.97	-174.12	219.85	0.66	0.00
11,617	1.50	223.20	11,608	279.81	-175.85	218.10	0.13	0.00
11,712	1.50	222.90	11,703	279.76	-177.66	216.40	0.01	0.00
11,806	1.80	221.50	11,797	279.74	-179.67	214.58	0.32	0.32
11,900	1.80	216.50	11,891	279.88	-181.96	212.73	0.17	0.00
11,994	1.60	216.20	11,985	280.14	-184.21	211.07	0.21	-0.21
12,056	1.60	219.40	12,047	280.25	-185.58	210.01	0.14	0.00
12,100	1.60	219.40	12,091	280.30	-186.53	209.23	0.00	0.00

Mud Logging Information			
Lithology and Shows	Max Trip Gas (units)	Avg Drill Gas (units)	Max Drill Gas (units)

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
SALADO	1,182		
YATES	1,861	1,887	1,886.1
SEVEN RIVERS	2,007	2,030	2,028.4
QUEEN	2,411	2,443	2,440.1
GRAYBURG	3,084	3,104	3,100.0
SAN ANDRES	3,389	3,402	3,397.2
SPRABERRY UPPER	6,131	6,110	6,102.0
SPRABERRY LOWER	6,704	6,687	6,679.0
JO-MILL SAND	7,001	6,990	6,981.9
DEAN	7,523	7,508	7,499.9
WOLFCAMP A	7,693	7,678	7,669.9
WOLFCAMP B	8,053	8,044	8,035.8
WOLFCAMP C	8,396	8,403	8,394.8
WOLFCAMP D	8,806	8,806	8,797.8
CISCO	9,611	9,622	9,613.6
CLINE	9,808	9,836	9,827.6
STRAWN	10,093	10,124	10,115.6
ATOKA	10,396	10,469	10,460.5
BARNETT	10,581	10,680	10,671.5
WOODFORD	10,714	10,818	10,809.5



AMERICAN ENERGY - PERMIAN BASIN LLC
Daily Drilling Partner Report

UNIVERSITY 09 0806H
AEPB WELL NO. 22
ENSIGN 760

Report Date 11/18/2014
Report # 29
Projected Days 26
Drilling Days 20
Current Depth 12,100
Depth Progress 0
Planned VS 7,145
Current VS 272
AFE # DV02085
Total AFE 8,572,000

Geological Data			
Formation Name	Prog Top TVD (ftKB)	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)
DEVONIAN	10,791	10,880	10,871.5
ELLENBURGER	11,445	11,520	11,511.3



AMERICAN ENERGY
PARTNERS

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

UNIVERSITY 09 0806H
AEPB WELL NO.

Report End Date: 12/21/2014
Report Number: 3
Rig: ENSIGN, 760
Projected Days (days): 0
Drilling Days: 0
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number:

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB)				
Status at Report Time PREPARING TO WALK RIG										
Operations Summary PREPARING TO WALK RIG FROM UNIVERSITY 09 0802H TO UNIVERSITY 09 0806H, CLEAN MUD PITS. WILL SPUD 12/22/2014 @ 18:00 HRS LAST SURVEY: DEPTH 657, INC-0.20, AZ-52.13, TVD-657, VS-0.76 0' LOW / 0' LEFT 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/X/2014 @ 00:00 HRS NEXT WELL: ?, RIG MOVE				Planned Operations WALK RIG TO UNIVERSITY 09 0806H, WITH B&L TRUCKING ON 12/21/2014, RIG UP, DRILL SHOE TRACK, SPUD & DRILL INTERMEDIATE SECTION						
Start MD (ftKB) 713	End MD (ftKB) 713	Depth Progress (ft)	Drilling Time (hr) 0		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
15:00	05:00	14.00	713	713	PREPARING TO WALK RIG, UNHOOKING ELECTRIC, HYD & WATER LINES, ETC. CLEAN MUD PITS.				RIG UP/RIG DOWN	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/22/2014
Report Number: 4
Rig: ENSIGN, 760
Projected Days (days): 0
Drilling Days:
End MD (ftKB): 713
Depth Progress (ft): 0
Planned VS (ft):
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1	Proposed TD (ftKB)
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Status at Report Time
TESTING BOPS

Operations Summary WALK RIG FROM UNIVERSITY 09 0802H TO UNIVERSITY 09 0806H, WITH B&L TRUCKING, RIG UP RIG & EQUIP, NIPPLE UP BOPS, TESTING SAME HAD 1 CRANE, 1 TANDEM, 1 FORK LIFT FOR RIG MOVE WILL SPUD 12/22/2014 @ 18:00 HRS LAST SURVEY: DEPTH 657, INC-0.20, AZ-52.13, TVD-657, VS-0.76 0' LOW / 0' LEFT 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/X/2014 @ 00:00 HRS NEXT WELL: ?, RIG MOVE	Planned Operations NIPPLE UP & TEST BOPS, INSTALL WEAR BUSHING, PICK UP BHA, TEST MWD, TIH, DRILL SHOE TRACK, SPUD & DRILL INTERMEDIATE SECTION
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Start MD (ftKB) 713	End MD (ftKB) 713	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
05:00	07:00	2.00	713	713	PEREPARE RIG TO WALK TO THE UNIVERSITY 09 0806H	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
07:00	09:00	2.00	713	713	WALK RIG TO THE UNIVERSITY 09 0806H AND CENTER RIG OVER WELL	MOB	MOB	SKID/WALK	SKID/WALK	
09:00	12:00	3.00	713	713	REMOVE WALKING FEET AND INSTALL RAISING CYLINDERS	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
12:00	19:00	7.00	713	713	RIG UP AND PREPARE TO NIPPLE UP BOP	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	
19:00	23:00	4.00	713	713	INSTALL SPACER SPOOL, NIPPLE UP BOPS	MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	
23:00	05:00	6.00	713	713	TESTING BOPS AND CHOKE VALVES, 300 LOW / 5000 HIGH, HYDRILL 300 LOW / 3500 HIGH, FLOOR VALVES AND VALVES BACK TO PUMPS, 300 LOW, 4000 HIGH, TEST CASING, 1000 PSI FOR 30 MIN, ALL (OK) RIG DOWN TESTERS.	MOB	MOB	SKID/WALK	TEST B.O.P	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/23/2014
Report Number: 5
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 1
End MD (ftKB): 1,098
Depth Progress (ft): 385
Planned VS (ft): 7,145
Current VS (ft): 4
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time DRILLING TANGENT @ 1098'				Planned Operations DRILL 12 1/4" TANGENT SECTION TO CASING POINT @ 6400'						
Operations Summary TEST BOPS, MAKE UP BHA, TIH, DRILL SHOE TRACK, DRILL F/ 713' TO 1098'				Planned Operations DRILL 12 1/4" TANGENT SECTION TO CASING POINT @ 6400'						
LAST SURVEY: DEPTH 977, INC-0.77, AZ-39.91, TVD-976.97, VS-3.61, 33.42 W / 6.81 N 9' HIGH / 0.62' LEFT, 37' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE										
Start MD (ftKB) 713	End MD (ftKB) 1,098	Depth Progress (ft) 385		Drilling Time (hr) 5.00		Avg ROP (ft/hr) 77.0				
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	713	713	TEST CASING TO 1000 PSI WITH BOP TESTER. HELD FOR 30 MINUTES. RIG DOWN TESTER	MOB	MOB	SKID/WALK	TEST B.O.P	
06:00	11:00	5.00	713	713	INSTALL DRESSER SLEEVE, FILL UP LINE, BLEED OFF LINE, MUD BUCKET LINE, TURN BUCKLES, MOUSEHOLE, AND WEAR BUSHING. MOVE BHA TO PIPE RACKS, STRAP AND CALIPER SAME.	MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	
11:00	15:00	4.00	713	713	PICK UP DIRECTIONAL TOOLS.	MOB	MOB	SKID/WALK	DIRECTIONAL WORK	
15:00	18:00	3.00	713	713	PICK UP 3 8" DCS, 3 6 1/4 DCS, 6 HWDP, AND TRIP IN HOLE W/HWDP IN DERRICK. (TAGGED CEMENT AT 649').	MOB	MOB	SKID/WALK	TRIPS	
18:00	18:30	0.50	713	713	DISPLACE HOLE WITH OBM	MOB	MOB	SKID/WALK	COND MUD & CIRC	
18:30	19:30	1.00	713	713	DRILL SHOE TRACK FROM 649' TO 713'	MOB	MOB	SKID/WALK	DRILL W/ MUD	
19:30	22:30	3.00	713	1,011	ROTATE/SLIDE DRILL FROM 713' - 1011' @ 99.3 FPH ROTATE DRILL 298' IN 3 HOURS, 99.3 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
22:30	00:30	2.00	1,011	1,011	CIRCULATE WHILE CLEANING SHAKER SCREENS, SCREENS PACKED OFF WITH RED BED CLAY, CLEAN OUT POSSUM BELLY & CUTTING BOX	INT	DIR	DRILL	COND MUD & CIRC	
00:30	01:30	1.00	1,011	1,048	ROTATE/SLIDE DRILL FROM 1011' - 1048' @ 37 FPH ROTATE DRILL 37' IN 1 HOURS, 37 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
01:30	03:00	1.50	1,048	1,048	CIRCULATE WHILE CHANGING OUT SHAKER SCREENS FROM 170 TO 120 MESH, CLEAN OUT POSSUM BELLY & CUTTING BOX,	INT	DIR	DRILL	COND MUD & CIRC	
03:00	04:00	1.00	1,048	1,098	ROTATE/SLIDE DRILL FROM 1048' - 1098' @ 50 FPH ROTATE DRILL 50' IN 1 HOURS, 50 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
04:00	05:00	1.00	1,098	1,098	CIRCULATE WHILE CLEANING SHAKER SCREENS, SCREENS PACKED OFF WITH RED BED CLAY,	INT	DIR	DRILL	COND MUD & CIRC	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/24/2014
Report Number: 6
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 2
End MD (ftKB): 3,105
Depth Progress (ft): 2,007
Planned VS (ft): 7,145
Current VS (ft): -60
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP A1				Proposed TD (ftKB) 14,851					
Status at Report Time DRILLING TANGENT @ 3105'															
Operations Summary DRILL TANGENT F/ 1098' TO 3105'								Planned Operations DRILL 12 1/4" TANGENT SECTION TO CASING POINT @ 6400'							
LAST SURVEY:DEPTH 2959, INC-4.00, AZ-129.05,TVD-2954, VS-59.66, 53.15 E /-106.31 S 8' HIGH / 6' RIGHT, 66' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE															
Start MD (ftKB) 1,098		End MD (ftKB) 3,105		Depth Progress (ft) 2,007		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 85.4							
Time Log															
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments		Hole Section	Interval	Category		Activity		NPT		
05:00	09:30	4.50	1,098	1,490	ROTATE/SLIDE DRILL FROM 1098' - 1490' @ 392' AT 87.1 FPH ROTATE DRILL 384' IN 4 HOURS, 96 FPH AVERAGE ROP SLIDE DRILL 8' IN 0.5 HOUR, 16 FPH AVERAGE ROP ROTATE 89% SLIDE 11% (FULL RETURNS)		INT	DIR	DRILL		DRILL W/ MUD				
09:30	10:00	0.50	1,490	1,490	SERVICE RIG		INT	DIR	DRILL		LUBRICATE RIG				
10:00	05:00	19.00	1,490	3,105	ROTATE/SLIDE DRILL FROM 1490' - 3105' @ 1615' AT 85 FPH ROTATE DRILL 1552' IN 17 HOURS, 91.29 FPH AVERAGE ROP SLIDE DRILL 63' IN 2 HOUR, 31.5 FPH AVERAGE ROP ROTATE 96% SLIDE 4% (FULL RETURNS)		INT	DIR	DRILL		DRILL W/ MUD				



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/25/2014
Report Number: 7
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 3
End MD (ftKB): 4,250
Depth Progress (ft): 1,145
Planned VS (ft): 7,145
Current VS (ft): -74
AFE Number: DV02085

API 42383392020000		Surface Legal Location		Latitude 31.2787861100		Longitude -101.5943000000		Orig KB El... 2,701.00		RKB (ft) 30.00		County REAGAN		State TEXAS	
Report Summary															
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP A1				Proposed TD (ftKB) 14,851					
Status at Report Time DRILLING TANGENT @ 4250'															
Operations Summary DRILL TANGENT F/ 3105' TO 4250'								Planned Operations DRILL 12 1/4" TANGENT SECTION TO CASING POINT @ 6400'							
LAST SURVEY:DEPTH 4182', INC-2.71, AZ-102.0,TVD-4175.51, VS-74.01, 43.33 E /-120.10 S 6' HIGH / 3' RIGHT, 114' F/ 0804H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE															
Start MD (ftKB) 3,105		End MD (ftKB) 4,250		Depth Progress (ft) 1,145		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 48.7							
Time Log															
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments		Hole Section	Interval	Category		Activity		NPT		
05:00	12:30	7.50	3,105	3,301	ROTATE/SLIDE DRILL FROM 3105' - 3301' @ 196' AT 26 FPH ROTATE DRILL 163' IN 3.5 HOURS, 46.6 FPH AVERAGE ROP SLIDE DRILL 33' IN 4 HOUR, 8.25 FPH AVERAGE ROP ROTATE 83% SLIDE 17% (FULL RETURNS)		INT	DIR	DRILL		DRILL W/ MUD				
12:30	13:00	0.50	3,301	3,301	RIG SERVICE		INT	DIR	DRILL		LUBRICATE RIG				
13:00	05:00	16.00	3,301	4,250	ROTATE/SLIDE DRILL FROM 3301' - 4250' @ 949' AT 59.31 FPH ROTATE DRILL 904' IN 13.5 HOURS, 67 FPH AVERAGE ROP SLIDE DRILL 45' IN 2.5 HOUR, 18 FPH AVERAGE ROP ROTATE 95% SLIDE 5% (FULL RETURNS)		INT	DIR	DRILL		DRILL W/ MUD				



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/26/2014
Report Number: 8
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 4
End MD (ftKB): 5,945
Depth Progress (ft): 1,695
Planned VS (ft): 7,145
Current VS (ft): -77
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time DRILLING TANGENT @ 5945'										
Operations Summary DRILL TANGENT F/ 4250' TO 5945' LAST SURVEY:DEPTH 5785', INC-.49°, AZ-104.01°, TVD-5778.23, VS-76.89, 90.58° E /-178.50° S 6' HIGH / 4' RIGHT, 125' F/ 0804H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations DRILL 12 1/4" TANGENT SECTION TO CASING POINT @ 6400'						
Start MD (ftKB) 4,250		End MD (ftKB) 5,945		Depth Progress (ft) 1,695		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 72.1		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	12:30	7.50	4,250	4,806	ROTATE/SLIDE DRILL FROM 4250' - 4806' @ 556' AT 74.1 FPH ROTATE DRILL 536' IN 6 HOURS, 89.3 FPH AVERAGE ROP SLIDE DRILL 20' IN 1.5 HOUR, 13.3 FPH AVERAGE ROP ROTATE 96.4% SLIDE 3.6% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
12:30	13:00	0.50	4,806	4,806	RIG SERVICE	INT	DIR	DRILL	LUBRICATE RIG	
13:00	05:00	16.00	4,806	5,945	ROTATE/SLIDE DRILL FROM 4806' - 5945' 1139' AT 71 FPH ROTATE DRILL 1139' IN 16 HOURS, 71 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	



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AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/27/2014
Report Number: 9
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 5
End MD (ftKB): 6,425
Depth Progress (ft): 480
Planned VS (ft): 7,145
Current VS (ft): -77
AFE Number: DV02085

API 42383392020000	Surface Legal Location		Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS		
Report Summary										
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851	
Status at Report Time CHANGING OUT BHA TO 8 3/4" ASSEMBLY										
Operations Summary DRILL TANGENT F/ 5945' TO 6425' LAST SURVEY:DEPTH 6351', INC-...37°, AZ-104.49°,TVD-6344.20, VS-76.82, 92.55° E /-180.73° S 11' HIGH / 6' RIGHT, 128' F/ 0804H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE					Planned Operations FINISH CHANGING OUT BHA, TIH, BUILD CURVE & CONTINUE ON DRILLING LATERAL					
Start MD (ftKB) 5,945		End MD (ftKB) 6,425		Depth Progress (ft) 480		Drilling Time (hr) 7.00		Avg ROP (ft/hr) 68.6		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	12:00	7.00	5,945	6,425	ROTATE/SLIDE DRILL FROM 5945' - 6425' 480' AT 68.6 FPH ROTATE DRILL 480' IN 7 HOURS, 68.6 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	
12:00	18:00	6.00	6,425	6,425	PUMP 2 HI-VIS SWEEPS, CIRCULATE HOLE CLEAN, STARTING TORQUE 6000, PP 2100 1ST BOTTOMS UP TORQUE 4000, PP 2000 2ND BOTTOMS UP TORQUE 3000, PP 2000 CHECKED FLOW, WELL WAS FLOWING ABOUT A BBL A MIN, WEIGHT UP FROM 8.9 TO 8.9+. FLOW CHECK, WELL FLOWING SLOWLY, RAISE MUD WEIGHT FROM 8.9+ TO 9.0. CHECK FLOW, WELL STATIC, PUMP SLUG.	INT	DIR	DRILL	COND MUD & CIRC	
18:00	23:30	5.50	6,425	6,425	POOH TO CHANGE OUT BHA FOR 8 3/4 HOLE SECTION.	INT	DIR	DRILL	TRIPS	
23:30	02:30	3.00	6,425	6,425	LAY DOWN BHA # 2 & 6" DRILL COLLARS	INT	DIR	DRILL	DIRECTIONAL WORK	
02:30	04:30	2.00	6,425	6,425	RIG MOTORS WENT DOWN, HAD NO RIG POWER	INT	DIR	DRILL	REPAIR RIG	Yes
04:30	05:00	0.50	6,425	6,425	CONTINUE HANDLING BHA	INT	DIR	DRILL	DIRECTIONAL WORK	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/28/2014
Report Number: 10
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 6
End MD (ftKB): 7,345
Depth Progress (ft): 920
Planned VS (ft): 7,145
Current VS (ft): -79
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time BUILDING CURVE @ 7345'				Planned Operations BUILD CURVE & CONTINUE ON DRILLING LATERAL TO PTD @ 14,851'						
Operations Summary MAKE UP 8 3/4 DIRECTIONAL DRILLING ASSEMBLY, TIH, FILL EVERY 30 STDS, DRILL TANGENT TO KOP @ 7249', BUILDING CURVE @ 7345' ROTATE AND SLIDE F/ 6425' TO 7345' STARTED BUILDING CURVE AT 7249' LAST SURVEY:DEPTH 7295', INC--.4.4°, AZ-345.10°,TVD-7288.12, VS-79.16, DLN-9.60, 82.58° E /- 154.87° S 4' HIGH / 15' RIGHT, 155' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE										
Start MD (ftKB) 6,425		End MD (ftKB) 7,345		Depth Progress (ft) 920		Drilling Time (hr) 16.50		Avg ROP (ft/hr) 55.8		
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	6,425	6,425	MAKE UP DIRECTIONAL ASSEMBLY FOR 8 3/4 HOLE. INSTALL MWD, TEST MWD (TEST GOOD), MAKE UP BIT.	INT	DIR	DRILL	P/U & L/D BHA	
08:00	12:00	4.00	6,425	6,425	TIH, FILL PIPE EVERY 30 STDS,	INT	DIR	DRILL	TRIPS	
12:00	14:00	2.00	6,425	6,591	ROTATE/SLIDE DRILL FROM 6425' - 6591' 166' AT 83 FPH ROTATE DRILL 166' IN 2 HOURS, 83 FPH AVERAGE ROP SLIDE DRILL 0' IN 0 HOUR, 0 FPH AVERAGE ROP ROTATE 100% SLIDE 0% (FULL RETURNS)	PROD	DIR	DRILL	DRILL W/ MUD	
14:00	14:30	0.50	6,591	6,591	SERVICE RIG	PROD	DIR	DRILL	LUBRICATE RIG	
14:30	05:00	14.50	6,591	7,345	ROTATE/SLIDE DRILL FROM 6591' - 7345' 754' AT 52 FPH ROTATE DRILL 649' IN 8.5 HOURS, 76 FPH AVERAGE ROP SLIDE DRILL 105' IN 5.5 HOUR, 17.5 FPH AVERAGE ROP ROTATE 86% SLIDE 14% (FULL RETURNS)	PROD	DIR	DRILL	DRILL W/ MUD	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/29/2014
Report Number: 11
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 7
End MD (ftKB): 7,790
Depth Progress (ft): 445
Planned VS (ft): 7,145
Current VS (ft): 87
AFE Number: DV02085

API 42383392020000	Surface Legal Location		Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS		
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date		Rig Release Date		Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,851'			
Status at Report Time BUILDING CURVE @ 7790'										
Operations Summary ROTATE AND SLIDE BUILDING CURVE F/ 7345' TO 7790'					Planned Operations BUILD CURVE & CONTINUE ON DRILLING LATERAL TO PTD @ 14,851'					
LAST SURVEY: 7704', INC--.46.60°, AZ-2.90°,TVD-7650.92, VS-87.35, DLN-8.73, 20.50° E /-62.56° N 2' HIGH / 7' RIGHT, 194' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE										
Start MD (ftKB) 7,345		End MD (ftKB) 7,790		Depth Progress (ft) 445		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 18.9		
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	7,345	7,532	ROTATE/SLIDE DRILL FROM 7345' - 7532' 187' AT 18.7 FPH ROTATE DRILL 0' IN 0 HOURS, 0 FPH AVERAGE ROP SLIDE DRILL 187' IN 10 HOUR, 18.7 FPH AVERAGE ROP ROTATE 0% SLIDE 100% (FULL RETURNS)	PROD	CURVE	DRILL	DRILL W/ MUD	
15:00	15:30	0.50	7,532	7,352	RIG SERVICE	PROD	CURVE	DRILL	LUBRICATE RIG	
15:30	05:00	13.50	7,352	7,790	ROTATE/SLIDE DRILL FROM 7532' - 7790' 258' AT 19.1 FPH ROTATE DRILL 0' IN 0 HOURS, 0 FPH AVERAGE ROP SLIDE DRILL 258' IN 13.5 HOUR, 19.1 FPH AVERAGE ROP ROTATE 0% SLIDE 100% (FULL RETURNS)	PROD	CURVE	DRILL	DRILL W/ MUD	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/30/2014
Report Number: 12
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 8
End MD (ftKB): 8,650
Depth Progress (ft): 860
Planned VS (ft): 7,145
Current VS (ft): 841
AFE Number: DV02085

API 42383392020000	Surface Legal Location		Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS		
Report Summary										
Well Spud Date 10/15/2014		Total Depth Date		Rig Release Date		Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,851'		
Status at Report Time DRILLING LATERAL @ 8650'										
Operations Summary ROTATE AND SLIDE BUILDING CURVE F/ 7790' T/ 8334' (LANDED CURVE @ 8334' MD, INC 88.00°, AZ 0.9°, LANDING TVD 7826.60') DRILL LATERAL FROM 8334' TO 8650' LAST SURVEY: 8498', INC--91.10°, AZ-.70°,TVD-7827.17, VS 840.80', 63.18° W /-839.87° N 3' HIGH / 6' RIGHT, 296' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MO					Planned Operations DRILL LATERAL TO PTD @ 14,851'					
Start MD (ftKB) 7,790		End MD (ftKB) 8,650		Depth Progress (ft) 860		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 36.6		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	13:00	8.00	7,790	8,001	ROTATE/SLIDE DRILL FROM 7790' - 8001' 211' AT 26.4 FPH ROTATE DRILL 89' IN 1.75 HOURS, 50.8 FPH AVERAGE ROP SLIDE DRILL 122' IN 6.25 HOUR, 19.5 FPH AVERAGE ROP ROTATE 36.1% SLIDE 63.9% (FULL RETURNS)	PROD	CURVE	DRILL	DRILL W/ MUD	
13:00	13:30	0.50	8,001	8,001	SERVICE RIG	PROD	CURVE	DRILL	LUBRICATE RIG	
13:30	05:00	15.50	8,001	8,650	ROTATE/SLIDE DRILL FROM 8001' - 8650' 649' AT 41.8 FPH ROTATE DRILL 488' IN 8.5 HOURS, 57.4 FPH AVERAGE ROP SLIDE DRILL 161' IN 7 HOUR, 23 FPH AVERAGE ROP ROTATE 75% SLIDE 25% (FULL RETURNS)	PROD	CURVE	DRILL	DRILL W/ MUD	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 12/31/2014
Report Number: 13
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 9
End MD (ftKB): 10,054
Depth Progress (ft): 1,404
Planned VS (ft): 7,145
Current VS (ft): 2,254
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time DRILLED LATERAL TO 10054' / SAFETY STANDDOWN / WOW										
Operations Summary ROTATE AND SLIDE DRILLING LATERAL F/ 8650' T/ 10054', ENSIGN CALLED A SAFETY STAND DOWN DUE TO WEATHER, WORKING PIPE & CIRCULATING AT PRESENT LAST SURVEY: 9912', INC-.90.20°, AZ-358.50°,TVD-7826.75, VS 2253.81', 203.87° E /-2247.04° N 4' HIGH / 13' LEFT, 296' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations DRILL LATERAL TO PTD @ 14,851'						
Start MD (ftKB) 8,650		End MD (ftKB) 10,054		Depth Progress (ft) 1,404		Drilling Time (hr) 20.00		Avg ROP (ft/hr) 70.2		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	01:00	20.00	8,650	10,054	ROTATE/SLIDE DRILL FROM 8650' - 10054', 1404' AT 70.2 FPH ROTATE DRILL 1324' IN 16 HOURS, 82.75 FPH AVERAGE ROP SLIDE DRILL 80' IN 4 HOUR, 20 FPH AVERAGE ROP ROTATE 95% SLIDE 5% (FULL RETURNS)	PROD	LAT	DRILL	DRILL W/ MUD	
01:00	05:00	4.00	10,054	10,054	ENSIGN CALLED FOR A SAFETY STAND DOWN DUE TO ICY WEATHER, WE ARE CIRCULATING & WORKING A FULL STAND OF PIPE AT PRESENT	PROD	LAT	DRILL	COND MUD & CIRC	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/1/2015
Report Number: 14
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 10
End MD (ftKB): 11,200
Depth Progress (ft): 1,146
Planned VS (ft): 7,145
Current VS (ft): 3,385
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time DRILLING LATERAL @ 11,200										
Operations Summary HAD SAFETY STAND DOWN DUE TO WEATHER AS PER ENSIGN UNTIL 9:30 AM. ROTATE AND SLIDE DRILL LATERAL FROM 10,054 TO 11,200 LAST SURVEY: 11,044', INC--91.40°, AZ-2.3°,TVD-7820.82, VS 3385.20', 228.73° E /3378.40° N 10.6' HIGH / 8.7' LEFT, 353' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations DRILL LATERAL TO PTD @ 14,851'						
Start MD (ftKB) 10,054		End MD (ftKB) 11,200		Depth Progress (ft) 1,146		Drilling Time (hr) 19.50		Avg ROP (ft/hr) 58.8		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	09:30	4.50	10,054	10,154	ENSIGN CALLED FOR A SAFETY STAND DOWN DUE TO ICY WEATHER, WE ARE CIRCULATING & WORKING A FULL STAND OF PIPE AT PRESENT	PROD	LAT	DRILL	COND MUD & CIRC	Yes
09:30	05:00	19.50	10,154	11,200	ROTATE/SLIDE DRILL FROM 10054' - 11,200', 1146' AT 58.8 FPH ROTATE DRILL 1049' IN 15 HOURS, 69.9 FPH AVERAGE ROP SLIDE DRILL 89' IN 4.5 HOURS, 19.8 FPH AVERAGE ROP ROTATE 92% SLIDE 8% (FULL RETURNS)	PROD	LAT	DRILL	DRILL W/ MUD	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/2/2015
Report Number: 15
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 11
End MD (ftKB): 12,600
Depth Progress (ft): 1,400
Planned VS (ft): 7,145
Current VS (ft): 4,845
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time DRILLING LATERAL @ 12,600'										
Operations Summary ROTATE AND SLIDE DRILL LATERAL FROM 11200' TO 12,600' LAST SURVEY: 12.457', INC--89.10°, AZ-2.8°, TVD-7832.04, VS 47987.73', 284.51° E /4789.84° N 0.13' LOW / 17.75' RIGHT, 338' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations DRILL LATERAL TO PTD @ 14,851'						
Start MD (ftKB) 11,200		End MD (ftKB) 12,600		Depth Progress (ft) 1,400		Drilling Time (hr) 24.00				
Avg ROP (ft/hr) 58.3										
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	11,200	12,600	ROTATE/SLIDE DRILL FROM 11200' - 12,600', 1400' AT 58.3 FPH ROTATE DRILL 1307' IN 18.5 HOURS, 70.7 FPH AVERAGE ROP SLIDE DRILL 93' IN 5.5 HOURS, 16.9 FPH AVERAGE ROP ROTATE 93% SLIDE 7% (FULL RETURNS)	PROD	LAT	DRILL	DRILL W/ MUD	



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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/3/2015
Report Number: 16
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 12
End MD (ftKB): 13,800
Depth Progress (ft): 1,200
Planned VS (ft): 7,145
Current VS (ft): 6,068
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS
Report Summary							
Well Spud Date 10/15/2014	Total Depth Date	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851	
Status at Report Time DRILLING LATERAL @ 13,800'							
Operations Summary ROTATE AND SLIDE DRILL LATERAL FROM 12,600' TO 13,800' LAST SURVEY: 13,682', INC--88.50°, AZ--1.7°, TVD-7843.10, VS 6019.71', 272.77° E /6013.53° N 10.7' LOW / 19.40' LEFT, 330° F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations DRILL LATERAL TO PTD @ 14,851'			
Start MD (ftKB) 12,600	End MD (ftKB) 13,800	Depth Progress (ft) 1,200		Drilling Time (hr) 24.00		Avg ROP (ft/hr) 50.0	

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	12,600	13,800	ROTATE/SLIDE DRILL FROM 12,600' - 13,800', 1200' AT 50 FPH ROTATE DRILL 1072' IN 17 HOURS, 63.1 FPH AVERAGE ROP SLIDE DRILL 128' IN 7 HOURS, 18.3 FPH AVERAGE ROP ROTATE 89% SLIDE 11% (FULL RETURNS)	PROD	LAT	DRILL	DRILL W/ MUD	



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UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/4/2015
Report Number: 17
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 13
End MD (ftKB): 14,808
Depth Progress (ft): 1,008
Planned VS (ft): 7,145
Current VS (ft): 7,145
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date 1/3/2015	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time PERFORMING CLEAN UP CYCLE PRIOR TO LAYING DOWN DP										
Operations Summary ROTATE AND SLIDE DRILL LATERAL FROM 13,800' TO 14,808 (TD) PERFORM CLEAN UP CYCLE PRIOR TO LAYING DOWN DRILL PIPE LAST SURVEY: 14,760', INC--90.3°, AZ-.358.5°,TVD-7824.08, VS 7097.01', 310.81° E /7138.13° N 8.64 ABOVE / 2.48' LEFT, 332' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations CIRCULATE HOLE CLEAN, PULL 10 STANDS. LAY DOWN DRILL PIPE AND DIRECTIONAL TOOLS. PULL WEAR BUSHING						
Start MD (ftKB) 13,800		End MD (ftKB) 14,808		Depth Progress (ft) 1,008		Drilling Time (hr) 18.50		Avg ROP (ft/hr) 54.5		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	23:30	18.50	13,800	14,808	ROTATE/SLIDE DRILL FROM 13,800' - 14,808', 1008' AT 54.5 FPH ROTATE DRILL 915' IN 14 HOURS, 65.4 FPH AVERAGE ROP SLIDE DRILL 93' IN 4.5 HOURS, 20.7 FPH AVERAGE ROP ROTATE 91% SLIDE 9% (FULL RETURNS)	PROD	LAT	DRILL	DRILL W/ MUD	
23:30	05:00	5.50	14,808	14,808	PERFORMED CLEAN UP CYCLE PUMPING HIGH VIS SWEEPS 1ST BOTTOMS UP: 90% SHAKER SCREEN COVERAGE STARTING TQ 12K, ENDING TQ 11K 2ND BOTTOMS UP 50% SHAKER SCREEN COVERAGE, STARTING TQ 11K, ENDING TQ 10K 3RD BOTTOMS UP 10% SHAKER SCREEN COVERAGE, STARTING TQ 10K, ENDING TQ 10K CONTINUOUS 60 RPM, 578 GPM	PROD	LAT	DRILL	COND MUD & CIRC	



AMERICAN ENERGY - PERMIAN BASIN, LLC

UL Daily Drilling Partner Summary

Report End Date: 1/5/2015
Report Number: 18
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 14
End MD (ftKB): 14,808
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft): 7,145
AFE Number: DV02085

UNIVERSITY 09 0806H

AEPB WELL NO. 32

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date 1/3/2015	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time LAYING DOWN DIRECTIONAL TOOLS										
Operations Summary CIRCULATE HOLE CLEAN, PULL 10 STANDS. LAY DOWN DRILL PIPE AND DIRECTIONAL TOOLS. LAST SURVEY: 14,760', INC--90.3°, AZ--358.5°, TVD-7824.08, VS 7097.01', 310.81° E /7138.13° N 8.64 ABOVE / 2.48' LEFT, 332' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations LAY DOWN DIRECTIONAL TOOLS. PULL WEAR BUSHING. INSTALL SPACER BUSHING. RIG UP CASING CREW AND RUN 5 1/2 PRODUCTION CASING.						
Start MD (ftKB) 14,808		End MD (ftKB) 14,808		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	07:00	2.00	14,808	14,808	CIRCULATE HOLE CLEAN, CHECK FLOW, PUMP SLUG	PROD	LAT	DRILL	COND MUD & CIRC	
07:00	22:30	15.50	14,808	14,808	STAND 10 STANDS BACK IN DERRICK, L/D DRILL PIPE,	PROD	LAT	DRILL	TRIPS	
22:30	23:30	1.00	14,808	14,808	TRIP IN HOLE WITH 21 STANDS DP IN DERRICK	PROD	LAT	DRILL	TRIPS	
23:30	05:00	5.50	14,808	14,808	LAY DOWN DRILL PIPE AND DIRECTIONAL TOOLS	PROD	LAT	DRILL	TRIPS	



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UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/6/2015
Report Number: 19
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 15
End MD (ftKB): 14,808
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft): 7,145
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date 1/3/2015	Rig Release Date	Target Formation WOLFCAMP A1		Proposed TD (ftKB) 14,851					
Status at Report Time RUNNIG 5 1/2 PRODUCTION CASING										
Operations Summary LAY DOWN DIRECTIONAL TOOLS. PULL WEAR BUSHING. INSTALL SPACER BUSHING. RIG UP CASING CREW AND RUN 5 1/2 PRODUCTION CASING. LAST SURVEY: 14,760', INC--90.3°, AZ-.358.5°,TVD-7824.08, VS 7097.01', 310.81° E /7138.13° N 8.64 ABOVE / 2.48' LEFT, 332' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations BURST DISK IN FLOTATION COLLAR AND BLEED OUT AIR. CIRCULATE 1 1/2 CASING CAPACITIES. CEMENT CASING. NIPPLE DOWN AND SET SLIPS. NIPPLE UP DSA AND TA CAP.						
Start MD (ftKB) 14,808		End MD (ftKB) 14,808		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	07:30	2.50	14,808	14,808	BREAK BIT OFF, PULL MWD, L/D DIRECTIONAL TOOLS,	PROD	LAT	DRILL	P/U & L/D BHA	
07:30	08:00	0.50	14,808	14,808	PULL WEAR BUSHING	PROD	LAT	DRILL	P/U & L/D BHA	
08:00	10:00	2.00	14,808	14,808	RIG UP PREMIERE CASING CREW, HELD PJSM W/CASING CREW, RIG CREW, TP, CO-REP, DAVIS LYNCH, TRICAN AND US STEEL THREAD REP.	PROD	PROD	CSG/CEMENT	RUN CASING	
10:00	12:00	2.00	14,808	14,808	SET BUSHING FOR 5 1/2" CASING, TEST BUSHING TO 5000 PSI (TEST GOOD)	PROD	PROD	CSG/CEMENT	RUN CASING	
12:00	05:00	17.00	14,808	14,808	MAKE UP SHOE TRACK, CHECK FLOATS, RUN 5 1/2"- 17#- P110-CDC-HTQ CASING TO 14,808' (TAGGED BOTTOM). RAN 14,811' (325 JTS AND 4 MARKER JTS) OF 5 1/2" 17 PPF P-110 PRODUCTION CASING DRIFTED TO 4.767'. FILL PIPE WHILE RUNNING AND TOP OFF EVERY 30 JOINTS THEORETICAL/ ACTUAL DISPLACEMENT: 342.5/ ??? MAKE UP TORQUE: 12,000 DAVIS LYNCH MODEL 501-DV-ECN-PVTS W/ ALUMINUM FLOAT SHOE AT 14,808' DAVIS LYNCH MODEL 700F-SB FLOAT COLLAR AT 14,747' TRICAN BPS SET AT 14,710' MARKER JOINT AT 12,613' MARKER JOINT AT 10,559' MARKER JOINT AT 8450' DAVIS LYNCH TYPE 900 FLOTATION COLLAR AT 7186' MARKER JOINT AT 7122'	PROD	PROD	CSG/CEMENT	RUN CASING	



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UL Daily Drilling Partner Summary

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/7/2015
Report Number: 20
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 16
End MD (ftKB): 14,808
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft): 7,145
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date 1/3/2015	Rig Release Date	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time HOLD PRESSURE ON CASING AND WOC (FLOATS FAILED)										
Operations Summary RIG DOWN CASING CREW, RIG UP CEMENT HEAD, BURST FLOTATION COLLAR AT 2900 PSI, BLEED AIR FROM CASING, CIRCULATE BOTTOMS UP, DROP YELLOW PLUG AND PUMP DOWN TO FLOAT COLLAR, DID NOT SEE 1ST YELLOW PLUG BUMP, PUMP 2ND YELLOW PLUG, 2ND YELLOW PLUG BUMPED 500 STKS EARLY, CIRCULATE 1 1/2 CASING VOLUMES, PRESSURE WAS UP AND DOWN, REMOVED CEMENT HEAD, BOTH PLUGS WERE HUNG UP IN CEMENT HEAD. DROPPED 3RD YELLOW PLUG, PUMP DOWN TO FLOAT COLLAR, BUSTED PLUG WITH 2050 PSI, NO PROBLEMS. CIRCULATE, INSTALL NEW CEMENT HEAD, HELD PJSM, PUMP SPACERS AND CEMENT. SPACER:610 BBLS TREATED WATER, LEAD CEMENT: 1875 SKS (1028.5 BBLS) UNIVERSAL MIDCON LITE, TAIL CEMENT: 1685 SKS (366.1 BBLS) PREMIUM 50/50 POZ, DISPLACEMENT:342 BBLS TREATED WATER, HAD FULL RETURNS WHILE CEMENTING, BUMPED PLUG ON TIME, BLEED BACK 8 BBLS, FLOATS DID NOT HOLD PRESSURE BACK UP ON CASING AND SHUT IN WITH CEMENT HEAD TO HOLD FOR 8 HOURS, 60 BBLS OF CEMENT RETURNED TO SURFACE, TOP OF LEAD AT SURFACE, TOP OF TAIL AT 7325'. FLUSH THROUGH BOP AND FLOW LINE. PREPARE BOP FOR NIPPLE DOWN. TRANSFER MUD FROM PITS TO FRAC TANKS. LAST SURVEY: 14,760', INC--90.3°, AZ--358.5°,TVD-7824.08, VS 7097.01', 310.81° E /7138.13° N 8.64 ABOVE / 2.48' LEFT, 332' F/ 0802H, 3 rd WELL ON PAD BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations WAIT ON CEMENT UNTIL 10:00 AM (FLOATS NOT HOLDING) (CLEAN MUD TANKS WHILE WOC). BLEED PRESSURE FROM CASING. RIG DOWN CEMENTING HEAD. NIPPLE DOWN BOP AND CUT CASING. REMOVE SPACER SPOOL FROM BOP AND LAY DOWN BOP. INSTALL DSA AND TA CAP AND TEST SAME. FINISH CLEANING MUD TANKS. RELEASE RIG.						
Start MD (ftKB) 14,808		End MD (ftKB) 14,808		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	07:00	2.00	14,808	14,808	RIG DOWN CASING CREW, RIG UP CEMENT HEAD.	PROD	PROD	CSG/CEMENT	COND MUD & CIRC	
07:00	19:00	12.00	14,808	14,808	BURST FLOTATION COLLAR AT 2900 PSI, BLEED AIR FROM CASING, CIRCULATE BOTTOMS UP, FIRST 2 PLUGS HUNG UP IN HEAD, REMOVE CEMENT HEAD, DROP 3RD YELLOW BLUG, PUMP PLUG DOWN WITH SWAGE TO FLOAT COLLAR, BUSTED PLUG AT 2050 PSI, CIRCULATE.	PROD	PROD	CSG/CEMENT	COND MUD & CIRC	
19:00	02:00	7.00	14,808	14,808	INSTALL NEW CEMENT HEAD, HELD PJSM, TEST LINES, PUMP SPACERS AND CEMENT. PUMPED 10 BBLS FRESH WATER W/ 5 GALS PLEXAID 840, 500 BBLS FRESH WATER W/ 50 GALS CSA-7 AND 10 GALS BIO-15G, 100 BBLS OBM LCM-65 SPACER (9.5 PPG) W/40 LB/BBL STOP LOSS LCM, LEAD CEMENT= 1875 SX (1028.5 BBLS) MIDCON LITE, 11 PPG, TAIL= 1685 SX (366.1 BBLS) PREMIUM 50/50 POZ, 14.5 PPG, 8 BBLS/ MIN PUMP RATE, PUMPED DISPLACEMENT OF 342.5 BBLS OF TREATED WATER W/ 1 GAL/10 BBLS CSA-7 AND 0.1 GAL/10 BBLS BIO-15G, BUMPED PLUG WITH 342 BBLS, PUMP RATE 8 BBLS/MIN, SLOWED RATE TO 3 BBLS/MIN LAST 20 BBLS, 1258 PSI BEFORE BUMPING 1758 PSI, HOLD 1758 PSI FOR 5 MIN, BLEED OFF PSI, 8 BBLS BACK, FLOATS DID NOT HOLD, BUMP PLUG AGAIN AND PRESSURE UP ON CASING. CLOSE CEMENTING HEAD AND HOLD PRESSURE (WILL HOLD FOR 8 HOURS). ESTIMATED TOP OF LEAD AT SURFACE, ESTIMATED TOP OF TAIL AT 7325' CONTACTED TISH W/ TRRC AT 8:00 ON 1-4-15 ABOUT INTENT TO CEMENT PRODUCTION CASING	PROD	PROD	CSG/CEMENT	RUN CEMENT	
02:00	02:30	0.50	14,808	14,808	RIG DOWN CEMENTERS	PROD	PROD	CSG/CEMENT	RUN CEMENT	
02:30	05:00	2.50	14,808	14,808	FLUSH THROUGH BOP AND FLOW LINE. PREPARE BOP TO NIPPLE DOWN. TRANSFER OBM FROM PITS TO FRAC TANKS.	PROD	PROD	CSG/CEMENT	RUN CEMENT	



AMERICAN ENERGY
PARTNERS

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

UNIVERSITY 09 0806H
AEPB WELL NO. 32

Report End Date: 1/8/2015
Report Number: 21
Rig: ENSIGN, 760
Projected Days (days): 18
Drilling Days: 17
End MD (ftKB): 14,808
Depth Progress (ft): 0
Planned VS (ft): 7,145
Current VS (ft):
AFE Number: DV02085

API 42383392020000	Surface Legal Location	Latitude 31.2787861100	Longitude -101.5943000000	Orig KB El... 2,701.00	RKB (ft) 30.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 10/15/2014	Total Depth Date 1/3/2015	Rig Release Date 1/8/2015	Target Formation WOLFCAMP A1			Proposed TD (ftKB) 14,851				
Status at Report Time RELEASED RIG ON 1/8/2015 @ 02:00 HRS RIG DOWN										
Operations Summary WAIT ON CEMENT UNTIL 10:00 AM (FLOATS NOT HOLDING) (CLEAN MUD TANKS WHILE WOC). OPENED CEMENT HEAD, WATER STILL FLOWED WITH PRESSURE, SHUT IN CASING, WAIT ON CEMENT, REMOVE BOP AND SET SLIPS WITH 120,000. CUT CASING 10 1/2" ABOVE HEAD. REMOVE SPACER SPOOL FROM BOP AND LAY DOWN BOP. LAY OUT SPACER SPOOL, CLEAN PIT, RIG DOWN. BIG RIG SPUD DATE: 12/22/2014 @ 19:30 HRS NEXT WELL: WATKINS 1229 # 10H, RIG MOVE				Planned Operations RIG DOWN, MOVE RIG F/UNIVERSITY 09 #0806H T/WATKINS 1229 10H-1420601						
Start MD (ftKB) 14,808		End MD (ftKB) 14,808		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	14:00	9.00	14,808	14,808	WAIT ON CEMENT 8 HRS UNITILL 10:00 AM, PREP FOR NIPPLE DOWN BOPS. OPENED CEMENT HEAD, WATER STILL FLOWING WITH PRESSURE, SHUT IN CASING, WAIT ON CEMENT 4 HOURS, UNTILL 2:00 PM	PROD	PROD	CSG/CEMENT	WAIT ON CEMENT	
14:00	19:30	5.50	14,808	14,808	OPEN VALVE ON CEMENT HEAD (NO PRESSURE, NO FLOW). REMOVE BOP AND SET SLIPS WITH 120,000. CUT CASING 10 1/2" ABOVE HEAD. REMOVE SPACER SPOOL FROM BOP AND LAY DOWN BOP. LAY OUT SPACER SPOOL.	PROD	PROD	CSG/CEMENT	NIPPLE UP B.O.P./WELLHEAD	
19:30	02:00	6.50	14,808	14,808	CLEAN PIT, RIG DOWN RIG FLOOR. RELEASE RIG @ 1/8/15 02:00	PROD	PROD	CSG/CEMENT	RIG UP/RIG DOWN	