



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Submitted  
Date: 04/01/2015  
Tracking No.: 131833

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: AMERICAN ENERGY-PERM BASIN, LLC Operator No.: 017996  
Operator Address: PO BOX 13710 OKLAHOMA CITY, OK 73113-0000

WELL INFORMATION

API No.: 42-383-38440 County: REAGAN  
Well No.: 0817H RRC District No.: 7C  
Lease Name: UNIVERSITY 09 Field Name: LIN (WOLFCAMP)  
RRC Lease No.: 17946 Field No.: 53613750  
Location: Section: 8, Block: 9, Survey: UL, Abstract: U178  
  
Latitude: Longitude:  
This well is located 10.19 miles in a NW  
direction from BIG LAKE, TX,  
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential  
Type of completion: New Well  
Well Type: Producing Completion or Recompletion Date: 03/14/2015  
  
Type of Permit Date Permit No.  
Permit to Drill, Plug Back, or Deepen 08/26/2013 768733  
Rule 37 Exception  
Fluid Injection Permit  
O&G Waste Disposal Permit  
Other:

COMPLETION INFORMATION

Spud date: 10/15/2013 Date of first production after rig released: 03/14/2015  
Date plug back, deepening, recompletion, or drilling operation commenced: 10/15/2013 Date plug back, deepening, recompletion, or drilling operation ended: 12/02/2014  
Number of producing wells on this lease in this field (reservoir) including this well: 40 Distance to nearest well in lease & reservoir (ft.): 145.0  
Total number of acres in lease: 4520.60 Elevation (ft.): 2665 GL  
Total depth TVD (ft.): 8256 Total depth MD (ft.): 13409  
Plug back depth TVD (ft.): 8256 Plug back depth MD (ft.): 13409  
Was directional survey made other than inclination (Form W-12)? No Rotation time within surface casing (hours):  
Is Cementing Affidavit (Form W-15) attached? Yes  
Recompletion or reclass? No Multiple completion? No  
Type(s) of electric or other log(s) run: Gamma Ray (MWD)  
Electric Log Other Description:  
Location of well, relative to nearest lease boundaries Off Lease : No  
of lease on which this well is located: 7485.0 Feet from the East Line and  
223.0 Feet from the North Line of the  
UNIVERSITY 09 Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

PACKET: N/A

W2:	N/A	FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:	
GAU Groundwater Protection Determination	Depth (ft.):	500.0	Date: 08/30/2013
SWR 13 Exception	Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of test:	03/21/2015	Production method:	Gas Lift
Number of hours tested:	24	Choke size:	64
Was swab used during this test?	No	Oil produced prior to test:	2251.00
PRODUCTION DURING TEST PERIOD:			
Oil (BBLs):	383.00	Gas (MCF):	233
Gas - Oil Ratio:	608	Flowing Tubing Pressure:	190.00
Water (BBLs):	1764		
CALCULATED 24-HOUR RATE			
Oil (BBLs):	383.0	Gas (MCF):	233
Oil Gravity - API - 60.:	39.7	Casing Pressure:	1120.00
Water (BBLs):	1764		

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	605			PREM PLUS	520	806.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	6400			PREM	905	2430.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 3/4	13408			UNIV MAXLITE	2180	3622.0	0	Circulated to Surface

LINER RECORD									
Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
N/A									

TUBING RECORD			
Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7984	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8434	13288.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?	No		
Is well equipped with a downhole actuation sleeve?	No	If yes, actuation pressure (PSIG):	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:	8500	Actual maximum pressure (PSIG) during hydraulic fracturing:	7821
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?	No		
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

## FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
QUEEN	Yes	2409.0	2409.0	Yes	
GRAYBURG	Yes	3095.0	3095.0	Yes	
SAN ANDRES	Yes	3391.0	3391.0	Yes	
SPRABERRY	Yes	6100.0	6089.0	Yes	
WOLFCAMP	Yes	7679.0	7661.0	Yes	

**Do the producing interval of this well produce H<sub>2</sub>S with a concentration in excess of 100 ppm (SWR 36)?**

No

Is the completion being downhole commingled (SWR 10)?	No
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## REMARKS

## RRC REMARKS

**PUBLIC COMMENTS:**

### CASING RECORD :

THE GAU LETTER FOR THIS WELL HAS BEEN SUBMITTED. THE PREVIOUS GAU LETTER USED WAS NOT APPLICABLE TO THIS WELL.

**TUBING RECORD:**

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :**

### POTENTIAL TEST DATA:

## OPERATOR'S CERTIFICATION

Printed Name: Cameron Hughes

**Title:** Regulatory Analyst

**Telephone No.:** (405) 608-5477

**Date Certified:** 04/01/2015

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

## Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
American Energy - Permian Basin, LLC	017990	7C	Reagan
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
Lin (Wolfcamp)	4238338440	708733	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
University 09			0817H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		10/15/14					
13. *Drilled Hole Size		17 1/2					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		13 3/8					
15. Top of Liner (ft)							
16. Setting Depth (ft)		405					
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out		9					
1st slurry	19. API Cement Used: No. of Sacks >	260					
	Class >	Premium Plus					
	Additives >	See Below					
2nd slurry	No. of Sacks >	260					
	Class >	Premium Plus					
	Additives >	See Below					
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	496					
	Height (ft) >	714					
2nd	Volume (cu.ft.) >	310					
	Height (ft) >	447					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	806					
	Height (ft) >	1161					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		yes					
22. Remarks							
Premium Plus 65/35/6 w/1% calcium chloride, 0.5% cfl-4, 1/4 # celloflake							
Premium Plus w/ 0.5% cfl-4, 1/4 # celloflake							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Alfred Perez  
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.  
Cementing Company

Signature

P. O. BOX 60268 San Angelo TX 76906  
Address City State Zip Code

(325) 651 - 5700  
Tel: Area Code Number

November 16, 2013  
Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Rian Hinds  
Typed or Printed Name of Operator's Representative

Regulatory Technician  
Title

Signature

301 NW 43rd St. OKC OK 73116  
Address City State Zip Code

405 608 5477  
Tel: Area Code Number

2/3/15  
Date: Mo. Day Yr.

#### Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:
- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
  - \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
  - \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

- B. Where to file. The appropriate Commission District Office for the county in which the well is located.

- C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

- D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

## Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)		2. RRC Operator No.	3. RRC District No.	4. County of Well Site
American Energy Permian Basin		017990	7C	Reagan
5. Field Name (Wildcat or Exactly as Shown on RRC Records)		6. API No.		7. Drilling Permit No.
Lin(Wolfcamp)		4238338990		708733
8. Lease Name		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
University 09				0817H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date			11/1/2014				
13. *Drilled Hole Size			12 1/4				
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)			9 5/8				
15. Top of Liner (ft)							
16. Setting Depth (ft)			4400				
17. Number of Centralizers Used			50				
18. Hrs. Waiting on Cement Before Drill-Out			18.5				
1st Slurry	19. API Cement Used: No. of Sacks >		630				
	Class >		PREM				
	Additives >		*				
2nd Slurry	No. of Sacks >		275				
	Class >		PREM				
	Additives >		**				
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu. ft.) >		2034				
	Height (ft) >		6489				
2nd	Volume (cu. ft.) >		396				
	Height (ft) >		1201				
3rd	Volume (cu. ft.) >						
	Height (ft) >						
Total	Volume (cu. ft.) >		2430				
	Height (ft) >		7690				
21. Was Cement Circulated to Ground Surface (or Bottom of Celler) Outside Casing?			yes				
22. Remarks							
LEAD PREM PLUS W4% PLEXCRETE STE 3% CAS-1 1% CACL2.5# GILSONITE							
TAIL UNIVERSAL PREM MAX LITE W0.7% CAS-1 0.3% CFL-2 5# GILSONITE							

OVER →



CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

DANNY SPEARS *[Signature]*  
Name and Title of Cementer's Representative Service Supervisor

Universal Pressure Pumping, Inc.  
Cementing Company

*[Signature]*  
Signature

P. O. BOX 60628 San Angelo TX. 76901  
Address City State Zip Code

(432) 570 - 4899  
Tel. Area Code Number

Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Rian Hinds  
Typed or Printed Name of Operators Representative

Regulatory  
Technician  
Title

*[Signature]*  
Signature

301 NW 63rd St. OKC OK 73116  
Address City State Zip Code

405 608 5977  
Tel. Area Code Number

2/3/15  
Date: Mo. Day Yr.

#### Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:
- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
  - \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
  - \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
- D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.
- To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) <b>American Energy Permian Basin</b>		2. RRC Operator No. <b>017996</b>	3. RRC District No. <b>7C</b>	4. County of Well Site <b>Reagan</b>
5. Field Name (Wildcat or Exactly as Shown on RRC Records) <b>Lin (Wolfcamp)</b>		6. API No. <b>4238338440</b>		7. Drilling Permit No. <b>768733</b>
8. Lease Name <b>University 09</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number <b>0817H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				11/30/2014			
13. *Drilled Hole Size				8 3/4			
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)				5 1/2			
15. Top of Liner (ft)							
16. Setting Depth (ft)				13408'			
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out				24.5			
1st slurry	19. API Cement Used: No. of Sacks >			740			
	Class >			Univ Maxlite			
	Additives >			see remarks			
2nd slurry	No. of Sacks >			1440			
	Class >			Prem 50/50			
	Additives >			see remarks			
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			1865			
	Height (ft) >			7380			
2nd	Volume (cu.ft.) >			1757			
	Height (ft) >			6926			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			3622			
	Height (ft) >			14306			
21. Was Cement Circulated to Ground Surface (or Bottom of Celler) Outside Casing?				Yes			
22. Remarks							
1st slurry 740sks Universal Maxlite w/ 5#Gilsonite, 1/4# Super Sweep, 1/4# Celloflake, 2.5% CAS-1, 0.2%CFL-2, 0.2% CD-1							
2nd slurry 1440sks Premium 50/50 Poz w/ 2% Gel, 3% Salt, 0.4% CFL-2, 0.3% CR-1, 0.15% CD-1, 0.1% CAS-1							
circulated cement to surface 155 sks or 70 bbl							

OVER →



CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Kelth Smart Service Supervisor  
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.  
Cementing Company

Kelth Smart  
Signature

P.O. Box 60268 San Angelo TX. 76906  
Address City State Zip Code

(325)-651-5700  
Tel: Area Code Number

November 30, 2014  
Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Rian Hindis  
Typed or Printed Name of Operator's Representative

regulatory technician  
Title

Rian Hindis  
Signature

301 NW 43rd St. OKC OK 73114  
Address City State Zip Code

405U085477  
Tel: Area Code Number

2/3/15  
Date: Mo. Day Yr.

#### Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:
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    - \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
    - \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.
  - B. Where to file. The appropriate Commission District Office for the county in which the well is located.
  - C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
  - D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
  - E. Exceptions and alternate casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
  - F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).
  - G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.
- To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Tracking No.: 127304

This facsimile L-1 was generated electronically from data submitted to the RRC.

## Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

## SECTION I. IDENTIFICATION

Operator Name: AMERICAN ENERGY-PERM BASIN, LLC	District No. 7C	Completion Date: 12/02/2014
Field Name LIN (WOLFCAMP)	Drilling Permit No. 768733	
Lease Name UNIVERSITY 09	Lease/ID No. 17946	Well No. 0817H
County REAGAN	API No. 42- 383-38440	

## SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: \_\_\_\_\_

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). \_\_\_\_\_

Well No(s). \_\_\_\_\_

Dianne Newman

Signature

Name (print)

Sr. Regulatory Analyst

Title

(405) 607-5496

Phone

02/05/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **August 30, 2013**

GAU File No.: SC- **11561**

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number **38300000**

Attention: **AL ARLIAN**

RRC Lease No. **768702**

**SC\_252014\_38300000\_768702\_11561.pdf**

ENDURING RESOURCES LLC  
511 16TH ST  
STE 700  
DENVER CO 80202

P-5# 252014

--Measured--

7488 ft FEL

162 ft FNL

MRL:SECTION

Digital Map Location:

X-coord/Long **1607034**

Y-coord/Lat **591743**

Datum **27**

Zone **C**

County **REAGAN**

Lease & Well No. **UNIVERSITY 09 #0816H&PAD**

Purpose **ND**

Location **SUR-UL,BLK-09,SEC-05,--[TD=8601],[RRC 7C],**

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to a depth of 500 feet must be protected.

This recommendation is applicable to all wells within a radius of 150 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

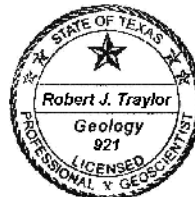
If you have any questions, please contact us at 512-463-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

**Robert J. Traylor, P.G.**

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

GEOLOGIST SEAL



The seal appearing on this document was authorized by Robert J. Traylor on 8/30/2013  
Note: Alteration of this electronic document will invalidate the digital signature.

Oper. Company: American Energy Partners

Country: USA

State / Province: Texas

County / Parish: Reagan County

Started: 10/26/2014 08:45 AM

Mud Weight

Mud Viscosity:

Max Temp:

Personnel

Day Hand: Wesley Risley

Night Hand: Michael Pitts

Comp. Emp: LEAM Drilling Systems

Location

Latitude: 31° 17' 14.764 N

Longitude: 101° 35' 29.036 W

Elev. GL: 2864'

Elev. DF: 2894'

Elev. KB: 30'

Hole Data

Size	From	To
17 1/2	0	665
12 1/4	665	6412
8 3/4	6412	0

Casing Data

Size	From	To
13 3/8	0	665
9 5/8	665	6412

Mud Data

Size	From	To
17 1/2	0	665
12 1/4	665	6412
8 3/4	6412	0

Bit Sizes

Tool Run Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
OBM	8.7-9	7-9	45-51	665	0			

Serial Number	Gamma Offset	Resist Offset	Start Time	Start Depth	End Time	End Depth
---------------	--------------	---------------	------------	-------------	----------	-----------

DG149	50	0	10/26/2014 2:00:22 AM	665	10/30/2014 4:00:22 AM	5003
G0SZA	45	0	10/30/2014 4:25:30 AM	5003	11/1/2014 3:45:30 AM	6412
G0SZA	43	0	11/2/2014 4:00:17 AM	6412	11/4/2014 9:30:7 AM	7993

CERTIFICATE OF COMPLIANCE  
AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.  
A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 127304

1. Field name exactly as shown on proration schedule <b>LIN (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UNIVERSITY 09</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>AMERICAN ENERGY-PERM BASIN, LLC</b>		4. Operator P-5 no. <b>017996</b>	5. Oil Lse/Gas ID no <b>17946</b>	6. County <b>REAGAN</b>	7. RRC district <b>7C</b>		
8. Operator address including city, state, and zip code <b>PO BOX 13710 OKLAHOMA CITY, OK 73113</b>		9. Well no(s) (see instruction E) <b>0817H</b>					
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)			11. Effective Date <b>12/02/2014</b>		
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ -- OR -- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)							
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	DCP MIDSTREAM, LP(195918)			0001	100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).							
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take	
PLAINS MARKETING, L.P.(667883)						100.0	
RRC USE ONLY: Reviewer's initials: _____ Approval date: _____							
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ Date _____ Phone with area code _____			
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
Name (print) <b>Sr. Regulatory Analyst</b> Title <b>dianne.newman@aep-lp.com</b> E-mail Address (optional)				Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) <b>02/05/2015</b> <b>(405) 607-5496</b> Date _____ Phone with area code _____			

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 127304

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the AMERICAN ENERGY-PERM BASIN, LLC ,

OPERATOR

UNIVERSITY 09

LEASE

No. 0817H

WELL

; that such well is

completed in the LIN (WOLFCAMP) Field, REAGAN County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as

authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

360.0

\_\_\_\_\_ acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction,*

Date 02/05/2015 Signature Dianne Newman

Telephone (405) 607-5496 Title Sr. Regulatory Analyst  
AREA CODE



# CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

# P-12


1. Field Name(s) <b>Lin (Wolfcamp)</b>	2. Lease/ID Number (if assigned)	3. RRC District Number <b>7C</b>
4. Operator Name <b>Enduring Resources, LLC</b>	5. Operator P-5 Number <b>252014</b>	6. Well Number <b>0817H</b>
7. Pooled Unit Name <b>University 09</b>	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County <b>Reagan</b>	11. Total acres in pooled unit <b>4522.2</b>	

## DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT (See inst. #7 below)	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
1	University Lands - Lease #113331	322.994	<input type="checkbox"/>	<input type="checkbox"/>
2	University Lands - Lease #113333	645.988	<input type="checkbox"/>	<input type="checkbox"/>
3	University Lands - Lease #113334	484.491	<input type="checkbox"/>	<input type="checkbox"/>
4	University Lands - Lease #113335	565.399	<input type="checkbox"/>	<input type="checkbox"/>
5	University Lands - Lease #113337	323.079	<input type="checkbox"/>	<input type="checkbox"/>
6	University Lands - Lease #113338	322.985	<input type="checkbox"/>	<input type="checkbox"/>
7	University Lands - Lease #113339	565.270	<input type="checkbox"/>	<input type="checkbox"/>
8	University Lands - Lease #113340	323.031	<input type="checkbox"/>	<input type="checkbox"/>
9	University Lands - Lease #78414	161.497	<input type="checkbox"/>	<input type="checkbox"/>
10	University Lands - Lease #111020	323.071	<input type="checkbox"/>	<input type="checkbox"/>

### CERTIFICATION:

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

		Alvin R. (Al) Arlian	
Signature		Print Name	
Regulatory Specialist	aarlian@enduringresources.com	08/20/2013	(303) 350-5114
Title	E-mail (if available)	Date	Phone

### INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

- When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
- The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
- If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
- If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
- If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
- Identify the drill site tract with an \* to the left of the tract identifier.
- The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

**CERTIFICATE OF  
POOLING AUTHORITY**

Revised 05/2001

**P-12**

1. Field Name(s) Lin (Wolfcamp)	2. Lease/ID Number (if assigned)	3. RRC District Number 7C
4. Operator Name Enduring Resources, LLC	5. Operator P-5 Number 252014	6. Well Number 0817H
7. Pooled Unit Name University 09	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County Reagan	11. Total acres in pooled unit 4522.2	

**DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT**

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT (See inst. #7 below)	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
11	University Lands - Lease #111021	322.998	<input type="checkbox"/>	<input type="checkbox"/>
12	University Lands - Lease #107981	80.774	<input type="checkbox"/>	<input type="checkbox"/>
13	University Lands - Lease #108484	80.708	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**CERTIFICATION:**

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

  
Signature  
Regulatory Specialist      aarlian@enduringresources.com  
Title      E-mail (if available)

Alvin R. (Al) Arlian  
Print Name  
08/20/2013      (303) 350-5114  
Date      Phone

**INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40**

- When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
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