



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Submitted  
Date: 02/06/2015  
Tracking No.: 127385

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.: 42-383-39202 County: REAGAN  
Well No.: 0806H RRC District No.: 7C  
Lease Name: UNIVERSITY 09 Field Name: LIN (WOLFCAMP)  
RRC Lease No.: Field No.: 53613750  
Location: Section: 8, Block: 9, Survey: UL, Abstract: U178  
  
Latitude: Longitude:  
This well is located 11.2 miles in a NW  
direction from BIG LAKE,  
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential  
Type of completion: New Well  
Well Type: Shut-In Producer Completion or Recompletion Date: 01/08/2015  
  
Type of Permit Date Permit No.  
Permit to Drill, Plug Back, or Deepen 10/07/2014 797056  
Rule 37 Exception  
Fluid Injection Permit  
O&G Waste Disposal Permit  
Other:

COMPLETION INFORMATION

Spud date: 10/15/2014 Date of first production after rig released: 01/08/2015  
Date plug back, deepening, recompletion, or drilling operation commenced: 12/22/2014 Date plug back, deepening, recompletion, or drilling operation ended: 01/03/2015  
Number of producing wells on this lease in this field (reservoir) including this well: 53 Distance to nearest well in lease & reservoir (ft.): 330.0  
Total number of acres in lease: 4522.29 Elevation (ft.): 2671 GR  
Total depth TVD (ft.): 7823 Total depth MD (ft.): 14808  
Plug back depth TVD (ft.): 7823 Plug back depth MD (ft.): 14808  
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 8.5  
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: 7417.7 Feet from the West Line and  
7195.0 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.): 525.0

Date: 10/02/2014

SWR 13 Exception

Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test:

Production method:

Number of hours tested: 24

Choke size:

Was swab used during this test? No

Oil produced prior to test:

PRODUCTION DURING TEST PERIOD:

Oil (BBLs):

Gas (MCF):

Gas - Oil Ratio: 0

Flowing Tubing Pressure:

Water (BBLs):

CALCULATED 24-HOUR RATE

Oil (BBLs):

Gas (MCF):

Oil Gravity - API - 60.:

Casing Pressure:

Water (BBLs):

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - 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	650			PREM	730	1397.0	0	Circulated to Surface
2	Conventional Production	5 1/2	8 3/4	14851			PREM	3560	7830.0	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	Size (ft.)
N/A			

Packer Depth (ft.)/Type	
/	

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
N/A			

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:

Actual maximum pressure (PSIG) during hydraulic fracturing:

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.)
N/A			

## 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>
GRAYBURG	Yes	3106.0	3106.0	Yes	
QUEEN	Yes	2442.0	2442.0	Yes	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3402.0	3402.0	Yes	
CLEARFORK	Yes	5257.0	5257.0	Yes	
SPRABERRY	Yes	6113.0	6113.0	Yes	
WOLFCAMP	Yes	7700.0	7700.0	Yes	
STRAWN	No			No	
FUSSELMAN	No			No	
ELLENBURGER	No			No	

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?	No
Is the completion being downhole commingled (SWR 10)?	No

REMARKS

THE UNIVERSITY 09 0802H IS THE PARENT WELL TO THE UNIVERSITY 02H. STACKED #797054

## RRC REMARKS

PUBLIC COMMENTS:
CASING RECORD :
TUBING RECORD: TBG WILL BE RECORD WHEN IP IS SUBMITTED
PRODUCING/INJECTION/DISPOSAL INTERVAL :
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :
POTENTIAL TEST DATA:

## OPERATOR'S CERTIFICATION

<b>Printed Name:</b> Dianne Newman	<b>Title:</b> Sr. Regulatory Analyst
<b>Telephone No.:</b> (405) 607-5496	<b>Date Certified:</b> 02/05/2015

Cementer: 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)		4238339202		797050
8. Lease Name		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
University 09				0806H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		10/16/2014					
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)		050					
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out		13 hrs					
1st Slurry	19. API Cement Used: No. of Sacks >	275					
	Class >	prem					
	Additives >	*					
2nd Slurry	No. of Sacks >	455					
	Class >	prem					
	Additives >	**					
3rd Slurry	No. of Sacks >	221 sks					
	Class >	C					
	Additives >	N/A					
1st	20. Slurry Pumped: Volume (cu.ft.) >	497					
	Height (ft) >	711					
2nd	Volume (cu.ft.) >	609					
	Height (ft) >	816					
3rd	Volume (cu.ft.) >	291					
	Height (ft) >	2352					
Total	Volume (cu.ft.) >	1397					
	Height (ft) >	3879					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		YES					
22. Remarks							
lead premplus 80/20 poz w2%cacl 2%cas -10.3% cfl-4 1/4 celloflake							
tail prem plus w 0.5% cfl-4 1/4celloflake							
3rd slurry 221 sks class c							

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.

Keith Smart Service Supervisor  
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

October 18, 2014  
Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, 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 Representative

Regulatory Technician  
Title

Rian Hinds  
Signature

301 NW U3rd St. OKC OK 73116  
Address City State Zip Code

4056085477  
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).

- 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.
- Where to file. The appropriate Commission District Office for the county in which the well is located.
- 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.
- 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.
- Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, 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.
- Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).
- 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.

Cementer: 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>01799u</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>4238339202</b>		7. Drilling Permit No. <b>79705u</b>
8. Lease Name <b>University 09</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number <b>0806H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				1/6/2015			
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)				14851			
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out				14.5			
1st slurry	19. API Cement Used: No. of Sacks >			1875			
	Class >			prem			
	Additives >			*			
2nd slurry	No. of Sacks >			1685			
	Class >			prm			
	Additives >			**			
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			5775			
	Height (ft) >			8132			
2nd	Volume (cu.ft.) >			2055			
	Height (ft) >			8832			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			7830			
	Height (ft) >			16964			
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?				yes			
22. Remarks							
mid con lite 5%salt 10%benoit 5%xpc-10.7%chl-191.1cr-1 5#gilsonite 1/4celloflake							
prem 50/50/ poz w 2% gel 3%salt 0.4% chl-2 0.3% cr-1 0.15% cd-1 0.1% cas-1							
circulated 60 bbls (109 sxs)							

→



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  Service Supervisor  
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.  
Cementing Company

  
Signature

P. O. BOX 3120 MIDLAND TX. 79702  
Address City State Zip Code

(432) 570 - 4899  
Tel: Area Code Number

January 7, 2015  
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

301 NW 43rd St. OKC OK 73110  
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 applications, 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.: 127385

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: 01/08/2015
Field Name LIN (WOLFCAMP)	Drilling Permit No. 797056	
Lease Name UNIVERSITY 09	Lease/ID No.	Well No. 0806H
County REAGAN	API No. 42- 383-39202	

## 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

Form GW-2

Date **October 2, 2014**

GAU File No.: **12079**

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

API Number **38300000**

Attention: **CAMERON HUGHES**

RRC Lease No. **000000**

SC\_017996\_38300000\_000000\_12079.pdf

AMERICAN ENERGY PERM BASIN LLC  
P O BOX 13710  
OKLAHOMA CITY TX 73113

--Measured--

2103 ft FWL

1864 ft FNL

MRL:SECTION

P-5# 017996

Digital Map Location:

X-coord/Long **1606035**

Y-coord/Lat **590061**

Datum **27** Zone **N**

County **REAGAN**

Lease & Well No. **UNIVERSITY 09 #0802H&PAD**

Purpose **ND**

Location **SUR-UL,BLK-9,SEC-8,--[TD=9000],[RRC 7C],**

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

The interval from the land surface to a depth of 525 feet must be protected.

This recommendation is applicable to all wells drilled on this pad.

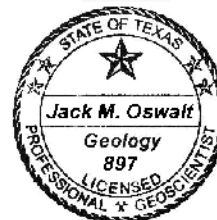
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form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

**Jack M. Oswalt, P.G.**

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 10/2/2014  
Note: Alteration of this electronic document will invalidate the digital signature.

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 127385

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. 0806H

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. RRR District Number <b>7C</b>
4. Operator Name <b>American Energy - Permian Basin LLC</b>	5. Operator P-S Number <b>017996</b>	6. Well Number <b>0806H</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>4522.285</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 113331	322.994	<input type="checkbox"/>	<input type="checkbox"/>
2	University Lands 113333	645.988	<input type="checkbox"/>	<input type="checkbox"/>
3	University Lands 113334	484.491	<input type="checkbox"/>	<input type="checkbox"/>
4	University Lands 113335	565.399	<input type="checkbox"/>	<input type="checkbox"/>
5	University Lands 113337	323.079	<input type="checkbox"/>	<input type="checkbox"/>
6	University Lands 113338	322.985	<input type="checkbox"/>	<input type="checkbox"/>
7	University Lands 113339	565.270	<input type="checkbox"/>	<input type="checkbox"/>
8	University Lands 113340	323.031	<input type="checkbox"/>	<input type="checkbox"/>
9	University Lands 78414	161.497	<input type="checkbox"/>	<input type="checkbox"/>
10	University Lands 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.

		<b>Bill G. Spencer</b>	
Signature		Print Name	
<b>Consultant</b>	<b>bill@spencerconsulting.org</b>	<b>10/01/2014</b>	<b>512-918-1062</b>
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) <b>Lin (Wolfcamp)</b>	2. Lease/ID Number (if assigned) <b>0</b>	3. RRR District Number <b>7C</b>
4. Operator Name <b>American Energy - Permian Basin LLC</b>	5. Operator P-5 Number <b>017996</b>	6. Well Number <b>0806H</b>
7. Pooled Unit Name <b>University 09</b>	8. API Number <b>0</b>	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>4522.285</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
11	University Lands 111021	322.998	<input type="checkbox"/>	<input type="checkbox"/>
12	University Lands 107981	80.774	<input type="checkbox"/>	<input type="checkbox"/>
13	University Lands 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.

		<b>Bill G. Spencer</b>	
Signature		Print Name	
<b>Consultant</b>	<b>bill@spencerconsulting.org</b>	<b>10/01/2014</b>	<b>512-918-1062</b>
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 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.: 127385

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	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>0806H</b>					
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)			11. Effective Date <b>01/08/2015</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 checked="" 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)				Dianne Newman 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			

# Archer

## Gamma Ray/ROP

(Scale: 5":100' (10"))

Company: American Energy Partners

Well: University 09 #0806H

Field: Lin (wolfcamp)

Well ID: 42383392020000

Job Number: 05084-431-22

Location: Lat 31° 16' 58.709 N Long 101° 35' 39.940 W

Operator 1: Jason Dobbs

Operator 2: Justin Adams

State: TX

County: Reagan

Country: USA

Elev KB: 2,701'

Elev DF: 2,701'

Elev GL: 2,671'

Comment 1: Max. Temp 154° F

Comment 2: OBM 9.0 ppg FV 63 sec/qt

Comment 3:

Comment 4:

Comment 5:

### Hole Data

### Casing Record

Size	From	To	Size	From	To
17 1/2"	0'	713'	13 3/8"	0'	713'
12 1/4"	713'	6,425'			
8 3/4"	6,425'	14,808'			

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	421				
Cal Factor	4.65				
Gamma Offset	37'				
Start Depth	6,425'				
Start Date	12/27/2014				
Start Time	7:30				
End Depth	14,808'				
End Date	01/03/2015				
End Time	23:35				



0 1500 3000 6000  
1 INCH = 3000 FT.

LINE	BEARING	DISTANCE
L1	N 60°52'22" E	198.29'



9/23/2014

THIS MAP WAS PREPARED FROM AN ACTUAL ON THE GROUND SURVEY PERFORMED UNDER MY SUPERVISION ON SEPTEMBER 10, 2014.

LARRY W. SMITH  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF TEXAS NO. 4279

BEARINGS AND COORDINATES SHOWN ON THIS MAP ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 27.

LATITUDES AND LONGITUDES SHOWN ON THIS MAP ARE BASED ON WGS 84.

THIS MAP WAS PREPARED FOR AREA COMPUTATIONS OF MINERAL OWNERSHIP AND DOES NOT REPRESENT A CURRENT OWNERSHIP BOUNDARY SURVEY.

RECORDS RESEARCH WAS PROVIDED BY THE CLIENT OR CLIENT'S REPRESENTATIVES. CLIENTS REPRESENTATIVE DIRECT THE SURVEYOR TO EXTEND THE MINERAL DEEDS TO THE CENTERLINE OF THE RIGHT-OF-WAY WHEN MINERAL DEEDS ARE NOT PROVIDED, THE SURVEYOR PERFORMED NO ADDITIONAL RESEARCH.

LESSOR NAMES ARE PROVIDED BY THE CLIENTS REPRESENTATIVE AND NOT BY THE SURVEYOR.

UNIVERSITY 09, #0806H SURFACE HOLE LOCATION BEARS  
N 53°11' W 11.2 MILES FROM BIG LAKE, TX.  
\$ = APPROXIMATE SURVEY ABSTRACT LINE

FTP = FIRST TAKE POINT  
LTP = LAST TAKE POINT  
LL = LEASE LINE  
BH = BOTTOM HOLE LOCATION  
SL = SURVEY LINE

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.  
UNIVERSITY 09,  
#0806H WELL  
BOTTOM HOLE LOCATION  
X=1,606,386.13  
Y=597,200.29  
LAT=31°18'09.93"  
LON=101°35'38.67"

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.  
UNIVERSITY 09,  
#0806H WELL  
LAST TAKE POINT  
X=1,606,385.12  
Y=597,150.31  
LAT=31°18'09.44"  
LON=101°35'38.67"

TRACT	LEASE #	CALLED ACREAGE	MEASURED ACREAGE	MEASURED PCT.
1	UNIVERSITY LANDS 113331	322.90 ACRES	322.994 ACRES	7.142
2	UNIVERSITY LANDS 113333	645.80 ACRES	645.988 ACRES	14.285
3	UNIVERSITY LANDS 113334	484.35 ACRES	484.491 ACRES	10.713
4	UNIVERSITY LANDS 113335	565.075 ACRES	565.399 ACRES	12.503
5	UNIVERSITY LANDS 113337	322.90 ACRES	323.079 ACRES	7.144
6	UNIVERSITY LANDS 113338	322.90 ACRES	322.985 ACRES	7.142
7	UNIVERSITY LANDS 113339	565.075 ACRES	565.270 ACRES	12.500
8	UNIVERSITY LANDS 113340	322.90 ACRES	323.031 ACRES	7.143
9	UNIVERSITY LANDS 78414	161.45 ACRES	161.497 ACRES	3.571
10	UNIVERSITY LANDS 111020	322.90 ACRES	323.071 ACRES	7.144
11	UNIVERSITY LANDS 111021	322.90 ACRES	322.998 ACRES	7.142
12	UNIVERSITY LANDS 107981	80.725 ACRES	80.774 ACRES	1.786
13	UNIVERSITY LANDS 108484	80.725 ACRES	80.708 ACRES	1.785
TOTAL			4522.285 ACRES	100.000

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.  
UNIVERSITY 09,  
#0806H WELL  
PENETRATION POINT/FTP  
X=1,606,243.63  
Y=590,158.47  
LAT=31°17'00.23"  
LON=101°35'39.39"

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.  
UNIVERSITY 09,  
#0806H WELL  
SURFACE HOLE LOCATION  
X=1,606,070.46  
Y=590,061.98  
LAT=31°16'59.25"  
LON=101°35'41.37"  
SURFACE ELEVATION=2671.06'

**FINAL**  
**AMERICAN ENERGY-PERMIAN BASIN, L.L.C.**  
**UNIVERSITY 09,**  
**#0806H WELL**  
**4522.285 ACRES**  
**REAGAN COUNTY, TEXAS**  
**PERCHERON**

SURVEY, L.L.C.  
15411 Vantage Pkwy West  
Suite 205  
Houston, Texas 77032  
(281) 447-6230  
Texas Surveying Firm License  
No. 10020700  
SEPTEMBER 23, 2014  
PROJECT 140.0006.003

SHEET 1 OF 1