



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Submitted
Date: 11/12/2014
Tracking No.: 120519

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.: 42-383-37800 County: REAGAN
Well No.: 1803H RRC District No.: 7C
Lease Name: UNIVERSITY 09 Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17946 Field No.: 53613750
Location: Section: 18, Block: 09, Survey: UL, Abstract:

Latitude: Longitude:
This well is located 10.1 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: 05/06/2014

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	10/29/2013	739176
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 12/04/2013	Date of first production after rig released: 05/06/2014
Date plug back, deepening, recompletion, or drilling operation commenced: 12/04/2013	Date plug back, deepening, recompletion, or drilling operation ended: 01/25/2014
Number of producing wells on this lease in this field (reservoir) including this well: 30	Distance to nearest well in lease & reservoir (ft.): 307.5
Total number of acres in lease: 4522.28	Elevation (ft.): 2722 GR
Total depth TVD (ft.): 7855	Total depth MD (ft.): 13782
Plug back depth TVD (ft.): 7855	Plug back depth MD (ft.): 13782
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours):
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? No
Type(s) of electric or other log(s) run: None	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 2269.5 Feet from the East Line and 1728.6 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
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PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 625.0	Date: 10/31/2013
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 07/25/2014		Production method: Gas Lift
Number of hours tested: 24		Choke size: 48
Was swab used during this test?	No	Oil produced prior to test: 2533.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 317.00		Gas (MCF): 650
Gas - Oil Ratio: 2050		Flowing Tubing Pressure:
Water (BBLS): 1354		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 317.0		Gas (MCF): 62
Oil Gravity - API - 60.:	650.0	Casing Pressure:
Water (BBLS): 1354		

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	719			PREM PLUS MIDCON	650	1093.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	6270				975	3188.0	456	Calculation
3	Conventional Production	5 1/2	8 7/8	13782			MIDCON-PREM	2325	4059.0	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	7550	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8152	13731.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		No	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG):	
No			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		Actual maximum pressure (PSIG) during hydraulic fracturing:	
8000		5500	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		No	
<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

1	Fracture	10,826,531 LBS. 100 MESH AND 40/70 SAND; AND 8,211,882	8152	13731
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FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
QUEEN	Yes	2553.0	2551.0	Yes	
GRAYBURG	Yes	3048.0	3047.0	Yes	
SAN ANDRES	Yes	3350.0	3349.0	Yes	
CLEARFORK	Yes	5255.0	5253.0	Yes	
SPRABERRY	Yes	6082.0	6080.0	Yes	
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

RRC REMARKS
PUBLIC COMMENTS: [RRC Staff 2014-11-13 12:24:08.484] EDL=5579 feet, max acres=240, LIN (WOLFCAMP) oil well
CASING RECORD :
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: 11/21/2014

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) Enduring Resources		2. RRC Operator No. 252014	3. RRC District No. 7C	4. County of Well Site Reagan
5. Field Name (Wildcat or Exactly as Shown on RRC Records) LIN (WLOLFCAMP)		6. API No. 52-383-37800		7. Drilling Permit No. 739176
8. Lease Name University 09		9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 17946	11. Well Number 1803H

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		12/5/2013					
13. *Drilled Hole Size		17.5					
*Ext. % Wash or Hole Enlargement		20					
14. Size of Casing (in. O.D.)		13 3/8					
15. Top of Liner (ft)							
16. Setting Depth (ft)		719					
17. Number of Centralizers Used		6					
18. Hrs. Waiting on Cement Before Drill-Out		48+					
1st slurry	19. API Cement Used: No. of Sacks >	390					
	Class >	Premium Plus					
	Additives >	*					
2nd slurry	No. of Sacks >	260					
	Class >	Premium Plus					
	Additives >	**					
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	745					
	Height (ft) >	1073					
2nd	Volume (cu.ft.) >	348					
	Height (ft) >	447					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	1093					
	Height (ft) >	1520					
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.

Alvin Kelley 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

December 5, 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.

Alvin R. (Al) Arlian

Regulatory Specialist

Typed or Printed Name of Operators Representative

Title

Signature

511 16th Street, Suite 700, Denver, Colorado 80202 303-350-5114
Address City State Zip Code Tel: Area Code Number

1-24-2014
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 & (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.

Cementier: 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) Enduring Resources		2. RRC Operator No. 252014	3. RRC District No. 7C	4. County of Well Site Reagan
5. Field Name (Wildcat or Exactly as Shown on RRC Records) LIN (WOLFCAMP)		6. API No. 42-383-37800		7. Drilling Permit No. 739176
8. Lease Name University 09 UL-09--		9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 17946	11. Well Number 1803H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date			1/15/2014				
13. *Drilled Hole Size			12 1/2				
*Ext. % Wash or Hole Enlargement			10				
14. Size of Casing (in. O.D.)			9 5/8				
15. Top of Liner (ft)							
16. Setting Depth (ft)			6270				
17. Number of Centralizers Used			39				
18. Hrs. Waiting on Cement Before Drill-Out			24+				
1st Slurry	19. API Cement Used: No. of Sacks >		700				
	Class >		midcon				
	Additives >		*				
2nd Slurry	No. of Sacks >		275				
	Class >		midcon				
	Additives >		**				
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >		2023				
	Height (ft) >		6459				
2nd	Volume (cu.ft.) >		1165				
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >		3188				
	Height (ft) >		6459				
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?			no				
22. Remarks							
*8%gel, 5#gilsonite, 1/4#celflake, 5%salt, 3%cas-1, .5%cfi-19, 1/4#superfiber							
**2%gel, 2#gilsonite, 1/4#celflake, 3%salt, 4%cr-1, .3%cfi-2, .2%cfi-3, 1/4#superfiber							



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.

Russell Stanaland Service Supervisor
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.
Cementing Company

[Signature]
Signature

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

(325) 561-5700
Tel: Area Code Number

January 15, 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.

Alvin R. Arlian Regulatory Specialist
Typed or Printed Name of Operators Representative Title

[Signature]
Signature

511 16th Street, Suite 700, Denver, CO 80202 303-350-5114
Address City State Zip Code Tel: Area Code Number

5-6-2014
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-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.

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
Enduring Resources	252014	7C	Reagan
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
LIN (WOLF CAMP)	42-383-37800	739176	
8. Lease Name:	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
University 09		17946	1803H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				1/25/2014			
13. *Drilled Hole Size				12 1/4			
*Ext. % Wash or Hole Enlargement				40			
14. Size of Casing (in. O.D.)				9 5/8			
15. Top of Liner (ft)							
16. Setting Depth (ft)				13782			
17. Number of Centralizers Used				46			
18. Hrs. Waiting on Cement Before Drill-Out				24+			
1st slurry	19. API Cement Used: No. of Sacks >			750			
	Class >			MID CON			
	Additives >			*			
2nd slurry	No. of Sacks >			1575			
	Class >			PREMIUM			
	Additives >			**			
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			2138			
	Height (ft) >			8077			
2nd	Volume (cu.ft.) >			1921			
	Height (ft) >			7601			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			4059			
	Height (ft) >			15678			
21. Was Cement Circulated to Ground Surface (or Bottom of Celler) Outside Casing?				YES			
22. Remarks							
*MidCon Lite w/ 10% Gel, 5% Salt, 0.7% CFL-19, 1.5% CR-1, 5# Gilsonite, 1/4# Celloflake							
**2%GEL,3%SALT,.4%CFL-2,.4%CR-1,.15%CD-1,.1%CAS-1							

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								

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RUSSELL STANALAND, Service Supervisor
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.
Cementing Company

P. O. BOX 3120 MIDLAND TX. 79702 (432) 570 - 4899 January 25, 2014
Address City State Zip Code 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.

Alvin R. Arlian

Regulatory Specialist

Typed or Printed Name of Operators Representative

Title

Signature

511 16th Street, Suite 700, Denver, Colorado 80202 303-350-5114 4-8-2014
Address City State Zip Code Tel: Area Code Number Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

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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.

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **October 31, 2013**

GAU File No.: SC- **11617**

***** EXPEDITED APPLICATION *****

API Number **38300000**

Attention: **AL ARLIAN**

RRC Lease No. **772279**

SC_252014_38300000_772279_11617.pdf

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

--Measured--

Digital Map Location:

2234 ft FEL X-coord/Long **1612146**

1728 ft FNL Y-coord/Lat **584744**

MRL:SECTION Datum **27** Zone **C**

P-5# 252014

County **REAGAN**

Lease & Well No. **UNIVERSITY 09 #1824H&PAD**

Purpose **ND**

Location **SUR-UL,BLK-9,SEC-18,--[TD=8601],[RRC 7C],**

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

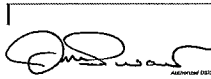
The interval from the land surface to a depth of 625 feet must be protected.

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

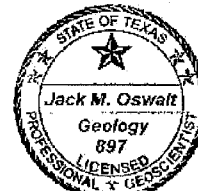
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form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

If you have any questions, please contact us at 512-463-2741, gaau@rrc.state.tx.us, or by mail.

Sincerely,


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, o=Austin,
ou=Railroad Commission of Texas,
ou=Groundwater Advisory Unit, cn=Jack
Oswalt, email=jackoswalt@rrc.state.tx.us
Date: 2013.10.31 14:27:41 -05'00'
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 10/31/2013
Note: Alteration of this electronic document will invalidate the digital signature.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ELECTRIC LOG
STATUS REPORT

FORM L-1

Tracking No.: 104310

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: ENDURING RESOURCES, LLC	District No. 7C	Completion Date: 05/06/2014
Field Name LIN (WOLFCAMP)	Drilling Permit No. 739176	
Lease Name UNIVERSITY 09	Lease/ID No. 17946	Well No. 1803H
County REAGAN	API No. 42- 383-37800	

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). _____

Alvin Arlian

Signature

ENDURING RESOURCES, LLC

Name (print)

Regulatory Specialist

Title

(303) 350-5114

Phone

05/06/2014

Date

-FOR RAILROAD COMMISSION USE ONLY-

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.: 104310

1. Field name exactly as shown on proration schedule LIN (WOLFCAMP)		2. Lease name as shown on proration schedule UNIVERSITY 09							
3. Current operator name exactly as shown on P-5 Organization Report ENDURING RESOURCES, LLC		4. Operator P-5 no. 252014	5. Oil Lse/Gas ID no 17946	6. County REAGAN	7. RRC district 7C				
8. Operator address including city, state, and zip code 511 16TH STREET SUITE 700 DENVER, CO 80202-4248		9. Well no(s) (see instruction E) 1803H							
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 <input type="checkbox"/> other well (specify) _____ 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"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 05/06/2014					
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. <table style="width:100%;"><tr><td style="width:50%; vertical-align: top;">Name of Previous Operator Name (print) Title</td><td style="width:50%; vertical-align: top;">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</td></tr></table>								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
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. <table style="width:100%;"><tr><td style="width:50%; vertical-align: top;">ENDURING RESOURCES, LLC Name (print) Regulatory Specialist Title aarlian@enduringresources.com E-mail Address (optional)</td><td style="width:50%; vertical-align: top;">Alvin Arlian Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) Date 05/06/2014 Phone with area code (303) 350-5114</td></tr></table>								ENDURING RESOURCES, LLC Name (print) Regulatory Specialist Title aarlian@enduringresources.com E-mail Address (optional)	Alvin Arlian Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) Date 05/06/2014 Phone with area code (303) 350-5114
ENDURING RESOURCES, LLC Name (print) Regulatory Specialist Title aarlian@enduringresources.com E-mail Address (optional)	Alvin Arlian Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) Date 05/06/2014 Phone with area code (303) 350-5114								

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 104310

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 ENDURING RESOURCES, LLC ,

OPERATOR

UNIVERSITY 09

LEASE

No. 1803H

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 _____

80.379 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, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,

Date 05/06/2014 Signature Alvin Arlian

Telephone (303) 350-5114 Title Regulatory Specialist
AREA CODE



05/02/24

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

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

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

\$ = APPROXIMATE SURVEY ABSTRACT LINE

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

ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
SURFACE HOLE LOCATION
X=1,612,111.68
Y=584,744.09
LAT= 31°16'07.29"
LON= 101°34'31.07"
SURFACE ELEVATION=2722.52'

ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
PENETRATION POINT
X=1,612,085.06
Y=584,624.07
LAT= 31°16'06.10"
LON= 101°34'31.36"

ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
FIRST TAKE POINT
X=1,612,070.67
Y=584,216.04
LAT= 31°16'02.06"
LON= 101°34'31.47"

ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
LAST TAKE POINT
X=1,611,962.29
Y=578,642.69
LAT= 31°15'06.89"
LON= 101°34'32.00"

ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
BOTTOM HOLE LOCATION
X=1,611,963.01
Y=578,591.42
LAT= 31°15'06.38"
LON= 101°34'31.99"

**FINAL
ENDURING RESOURCES, L.L.C.
UNIVERSITY 09,
#1803H WELL
AS-DRILLED
4522.285 ACRES
REAGAN COUNTY, TEXAS
PERCHERON**

SURVEY, LLC
15411 Vantage Pkwy West
Suite 205
Houston, Texas 77032
(281) 447-6230
Texas Surveying Firm License
No. 10020700
MAY 2, 2014
PROJECT 140.0002.003