

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 82287

Status: Submitted

This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. **42- 383-38183**

7. RRC District No.  
**7C**

8. RRC Lease No.

## Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) <b>LIN (WOLFCAMP)</b>		2. LEASE NAME <b>UNIVERSITY BLOCK 48</b>		9. Well No. <b>1809H</b>	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>ENDURING RESOURCES, LLC</b>		RRC Operator No. <b>252014</b>		10. County of well site <b>REAGAN</b>	
4. ADDRESS <b>511 16TH STREET SUITE 700 DENVER, CO 80202-4248</b>				11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain In remarks) <input type="checkbox"/>	
5. If Operator has changed within last 60 days, name former operator					
6a. Location (Section, Block, and Survey) <b>23 , 48 , UNIVERSITY LANDS</b>		6b. Distance and direction to nearest town in this county. <b>9.83 MILES SOUTHEAST OF BIG LAKE</b>			
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. <b>FIELD &amp; RESERVOIR</b>		GAS ID or OIL LEASE #		Oil-O Gas-G	
<b>N/A</b>					
13. Type of electric or other log run <b>None</b>		14. Completion or recompletion date <b>03/16/2013</b>			

### SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test		16. No. of hours tested		17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump)			18. Choke size	
19. Production during Test Period	▶ Oil - BBLS	Gas - MCF	Water - BBLS	Gas - Oil Ratio <b>0</b>		Flowing Tubing Pressure <b>PSI</b>		
20. Calculated 24-Hour Rate	▶ Oil - BBLS	Gas - MCF	Water - BBLS	Oil Gravity-API-60°		Casing Pressure <b>PSI</b>		
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells)			23. Injection Gas-Oil Ratio			
REMARKS: N/A								

**INSTRUCTIONS:** File an original and one copy of the completed FormW-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

			<b>WELL TESTERS CERTIFICATION</b> I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.						
Signature: Well Tester _____			Name of Company _____			RRC Representative _____			

										<b>OPERATOR'S CERTIFICATION</b> 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.									
<b>ENDURING RESOURCES, LLC</b> Type or printed name of operator's representative										<b>Regulatory Specialist</b> Title of Person									
<b>(303) 350-5114</b> Telephone: Area Code      Number      Month      Day      Year										<b>Alvin Arlian</b> Signature									

SECTION III

DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion

New Well☒

Deepening☐

Plug Back☐

Other☐

26. Notice of Intention to Drill this well was filed in Name of

ENDURING RESOURCES, LLC

27. Number of producing wells on this lease in this field (reservoir) including this well

1

28. Total number of acres in this lease

479.924

29. Date Plug Back, Deepening, Workover or Drilling Operations:

Commenced

Completed

30. Distance to nearest well, Same Lease &Reservoir

03/12/2013

03/16/2013

0.0

31. Location of well, relative to nearest lease boundaries

450.0

Feet From

North

Line and

1632.0

Feet from

West

Line of the

UNIVERSITY 47-48

Lease

32. Elevation (DF, RKB, RT, GR ETC.)

2750

GR

33. Was directional survey made other than inclination (Form W-12)?

☐ Yes

☒ No

34. Top of Pay

35. Total Depth

36. P. B. Depth

37. Surface Casing Determined by

Field Rules☐

Recommendation of T.D.W.R.

☒

Railroad Commission (Special)

☐

Dt. of Letter

01/23/2013

Dt. of Letter

874 MD:874

874 MD:874

874 MD:874

38. Is well multiple completion?

☐ Yes

☒ No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR

FIELD & RESERVOIR

GAS ID or OIL LEASE #

Oil-0 Gas-G

Well #

N/A

40. Intervals Drilled by:

Rotary Tools☒

Cable Tools☐

41. Name of Drilling Contractor

ENSIGN DRILLING

42. Is Cementing Affidavit Attached?

☒ Yes

☐ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
13 3/8	54.5	874		PREM PLUS 945	17 1/2	0	1509.0

44. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
N/A				

45. TUBING RECORD

Size	Depth Set	Packer Set	From	To
N/A			N/A	
			From	To
			From	To
			From	To

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	To
N/A	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.

Depth Interval	Amount and Kind of Material Used
N/A	

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth
	null		

REMARKS: A SPUDDER RIG WAS USED TO DRILL AND SET SURFACE CASING. THE WELL THEN SAT WAITING THE DRILLING RIG. ON 7-31-2013 A DRILLING RIG CAPABLE OF DRILLING TO TOTAL DEPTH MOVED ON AND DRILLED OUT FROM SURFACE AND SHOULD REACH TOTAL DEPTH THIS WEEK. Off Lease = true;

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

## 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
<b>Enduring Resources</b>	<b>252014</b>	<b>07C</b>	<b>Reagan</b>
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
<b>LIN (WOLFCAMP)</b>	<b>42-383-38183</b>	<b>754907</b>	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
<b>University <del>42-48</del> Block 48</b>			<b>1809H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		3/14/2013					
13. *Drilled Hole Size		17.5					
*Ext. % Wash or Hole Enlargement		100					
14. Size of Casing (in. O.D.)		13.375					
15. Top of Liner (ft)							
16. Setting Depth (ft)		874					
17. Number of Centralizers Used		4					
18. Hrs. Waiting on Cement Before Drill-Out		48+					
1st Slurry	19. API Cement Used: No. of Sacks >	450					
	Class >	premium plus					
	Additives >	see below					
2nd Slurry	No. of Sacks >	325					
	Class >	premium plus					
	Additives >	see below					
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	855					
	Height (ft) >	311					
2nd	Volume (cu.ft.) >	429					
	Height (ft) >	565					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	1284					
	Height (ft) >	876					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		no					
22. Remarks							
35%poz, 6%gel, 5%salt, 1/4#celloflake, 2#gilsonite							
2% calcium chloride							

OVER →

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
CEMENTING TO PLUG AND ABANDON								
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.

Harley Fenton  
Name and Title of Cementer's Representative

Universal Pressure Pumping, Inc.  
Cementing Company

Signature

March 14, 2013

4124 Dan Hanks Ln. San Angelo TX  
Address City State

76904  
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.

Alvin R. (Al) Arlian

REGulatory Specialist

Typed or Printed Name of Operators Representative

Title

80202

303-350-5114

Signature

8-12-2013

511 16th Street, Suite 700, Denver, Colorado  
Address City State Zip Code

Tel: Area Code Number

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.

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>Enduring Resources</b>		2. RRC Operator No. <b>252014</b>	3. RRC District No. <b>07C</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>42-383-38183</b>		7. Drilling Permit No. <b>754907</b>
8. Lease Name <b>University <del>4748</del> Block 48</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number <b>1809H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		3/16/2013					
13. *Drilled Hole Size		17.5					
*Ext. % Wash or Hole Enlargement		40					
14. Size of Casing (In. O.D.)		13.375					
15. Top of Liner (ft)							
16. Setting Depth (ft)		874					
17. Number of Centralizers Used		4					
18. Hrs. Waiting on Cement Before Drill-Out		48+					
1st Slurry	19. API Cement Used: No. of Sacks >	170					
	Class >	premium plus					
	Additives >	see bellow					
2nd Slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	225					
	Height (ft) >	323					
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	225					
	Height (ft) >	323					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		yes					
22. Remarks							
2% calcium chloride							

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								

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Harley Fenton Service Supervisor Universal Pressure Pumping, Inc.  
 Name and Title of Cementer's Representative Cementing Company Signature  
 4124 Dan Hanks Ln. San Angelo TX. 76904 (432) 570 - 4899 March 16, 2013  
 Address City State Zip Code Tel: Area Code Number Date: Mo. Day Yr.

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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 8-12-2013  
 Address City State Zip Code Tel: Area Code Number Date: Mo. Day Yr.

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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 January 23, 2013

GAU File No.: SC- 11241

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

API Number 38300000

Attention: AL ARLIAN

RRC Lease No. 754907

SC\_252014\_38300000\_754907\_11241.pdf

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

--Measured--

1632 ft FWL

450 ft FSL

MRL:SECTION

P-5# 252014

Digital Map Location:

X-coord/Long 1682417

Y-coord/Lat 517541

Datum 27 Zone C

County REAGAN

Lease & Well No. UNIVERSITY 47-48 #1809H

Purpose ND

Location SUR-UL,BLK-48,SEC-23,-- [TD=7395] , [RRC 7C] ,

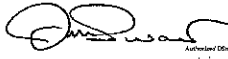
To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to the base of the SANTA ROSA,  
which is estimated to occur at a depth of 800 feet, must be protected.

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).

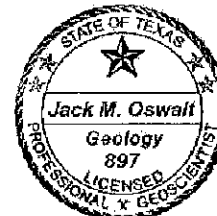
If you have any questions, please contact us at 512-463-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

  
Digitally signed by Jack Oswalt  
DN: cn=US, st=TEXAS, l=Austin, o=Railroad  
Commission of Texas, cn=Jack Oswalt,  
email=jack.oswalt@rrc.state.tx.us  
Date: 2013.01.23 11:01:42 -06'00'

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 1/23/2013  
Note: Alteration of this electronic document will invalidate the digital signature.