

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 74671

Status: Submitted

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

API No. **42- 383-38096**

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 09</b>		9. Well No. <b>0906H</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>					
5. If Operator has changed within last 60 days, name former operator					
6a. Location (Section, Block, and Survey) <b>9 , 9 , UL</b>			6b. Distance and direction to nearest town in this county. <b>11.15 MILES NW 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-0 Gas-G
<b>N/A</b>					Well #
13. Type of electric or other log run <b>None</b>				14. Completion or recompletion date <b>05/21/2013</b>	

11. Purpose of filing

Initial Potential

Retest

Reclass

Well record only (Explain In remarks)

### 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 - BCLS	Gas - MCF	Water - BCLS	Gas - Oil Ratio		Flowing Tubing Pressure	
					<b>0</b>		<b>PSI</b>	
20. Calculated 24-Hour Rate		Oil - BCLS	Gas - MCF	Water - BCLS	Oil Gravity-API-60°		Casing Pressure	
							<b>PSI</b>	
21. Was swab used during this test?			22. Oil produced prior to test (New & Reworked wells)			23. Injection Gas-Oil Ratio		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
<b>REMARKS: N/A</b>								

**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.

**WELL TESTERS CERTIFICATION**

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

**OPERATOR'S CERTIFICATION**

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.

**ENDURING RESOURCES, LLC**  
Type or printed name of operator's representative

**(303) 350-5114**  
Telephone: Area Code      Number

**05/21/2013**  
Month    Day    Year

**Regulatory Specialist**  
Title of Person

**Alvin Arlian**  
Signature

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)									
24. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>					25. Permit to Drill, Plug Back or Deepen DATE 11/28/2012 PERMIT NO. 751139 Rule 37 Exception		CASE NO.		
26. Notice of Intention to Drill this well was filed in Name of <b>ENDURING RESOURCES, LLC</b>					Water Injection Permit		PERMIT NO.		
27. Number of producing wells on this lease in this field (reservoir) including this well <b>25</b>		28. Total number of acres in this lease <b>4522.285</b>			Salt Water Disposal Permit		PERMIT NO.		
29. Date Plug Back, Deepening, Workover or Drilling Operations: <b>11/18/2012</b>		Commenced	Completed <b>04/01/2013</b>	30. Distance to nearest well, Same Lease & Reservoir <b>294.9</b>		Other		PERMIT NO.	
31. Location of well, relative to nearest lease boundaries <b>960.3</b> Feet From <b>West</b> Line and <b>450.8</b> Feet from <b>North</b> Line of the <b>UNIVERSITY 09</b> Lease									
32. Elevation (DF, RKB, RT, GR ETC.) <b>2621 GR</b>			33. Was directional survey made other than inclination (Form W-12)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
34. Top of Pay <b>6152 MD:6152</b>	35. Total Depth <b>7970 MD:17861</b>	36. P. B. Depth <b>7970 MD:17861</b>	37. Surface Casing Determined by Field Rules <input type="checkbox"/>	Recommendation of T.D.W.R. Railroad Commission (Special) <input type="checkbox"/>	<input checked="" type="checkbox"/>	Dt. of Letter <b>11/13/2012</b>			
38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. <b>FIELD &amp; RESERVOIR</b>					GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #		
<b>N/A</b>									
40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools <input type="checkbox"/>	41. Name of Drilling Contractor <b>ENSIGN DRILLING</b>				42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	547		LITE C 485	17 1/2	0	811.0		
9 5/8	40.0	5674		POZ C 1206	12 1/4	0	2958.0		
5 1/2	17.0	17861		TXI 3801	8 7/8	2850	5828.0		
44. LINER RECORD									
Size	Top	Bottom	Sacks Cement	Screen					
<b>N/A</b>									
45. TUBING RECORD					46. Producing Interval (this completion) Indicate depth of perforation or open hole				
Size	Depth Set	Packer Set	From <b>N/A</b>		To				
<b>N/A</b>			From		To				
			From		To				
			From		To				
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
Depth Interval				Amount and Kind of Material Used					
<b>N/A</b>									
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)									
Formations	Depth	Formations	Depth						
<b>SPRABERRY</b>	<b>6152.0 MD: 6152.0</b>								
<b>DEAN</b>	<b>7539.0 MD: 7556.0</b>								
<b>WOLFCAMP</b>	<b>7714.0 MD: 7771.0</b>								
REMARKS: THIS IS THE FIRST WELL TO BE DRILLED ON A 3-WELL PAD. THE WELL CURRENTLY HAS CASING RUN WAITING TO BE COMPLETED. THIS WELL WILL BE PERF'D AND FRAC'D AS SOON AS THE DRILLING RIG COMPLETES DRILLING THE THIRD WELL ON THE PAD AND MOVES OUT OF THE WAY. AN ESTIMATED COMPLETION DATE IS JUNE 15, 2013.									

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

**RAILROAD COMMISSION OF TEXAS**  
Oil and Gas Division

**Form W-15**  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>Enduring Resources, LLC</b>	2. RRC Operator No. <b>252014</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>42-383-38096</b>	7. Drilling Permit No. <b>751139</b>
8. Lease Name <b>University 09</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. <b>0906H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		<b>11/19/12</b>					
13. • Drilled hole size		<b>17 ½"</b>					
• Est. % wash or hole enlargement		<b>90</b>					
14. Size of casing (in. O.D.)		<b>13 ¾"</b>					
15. Top of liner (ft.)		<b>Surface</b>					
16. Setting depth (ft.)		<b>547'</b>					
17. Number of centralizers used		<b>4</b>					
18. Hrs. waiting on cement before drill-out		<b>48+</b>					
1st Slurry	19. API cement used: No. of sacks ▶	<b>300</b>					
	Class ▶	<b>Lite C</b>					
	Additives ▶	<b>See Remarks</b>					
2nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶	<b>185</b>					
	Class ▶	<b>C</b>					
	Additives ▶	<b>2% CaCl<sub>2</sub></b>					
1st	20. Slurry pumped: Volume (cu. ft.) ▶	<b>567</b>					
	Height (ft.) ▶	<b>816'</b>					
2nd	Volume (cu. ft.) ▶	<b>244</b>					
	Height (ft.) ▶	<b>351'</b>					
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	<b>811</b>					
	Height (ft.) ▶	<b>1167'</b>					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		<b>Yes</b>					

22. Remarks  
**Lead w/300sx of Lite C + 2% CaCl<sub>2</sub> + 1/4pps Cello-flake + 2/10% C41-P.**  
**Tail w/185sx C + 2% CaCl<sub>2</sub>.**  
**Circulated 239sx to pit.**



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

**Form W-15**  
Cementing Report  
Rev. 4/1/83  
483-045

**RAILROAD COMMISSION OF TEXAS**  
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report) <b>Enduring Resources, LLC</b>	2. RRC Operator No. <b>252014</b>	3. RRC District No.	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>42-383-38096</b> <del>423834E+12</del>	7. Drilling Permit No. <b>751139</b>
8. Lease Name <b>University 09</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. <b>0906H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			3/10/2013				
13. ●Drilling hole size			12-1/4				
●Est. % wash or hole enlargement			20				
14. Size of casing (in. O.D.)			9-5/8				
15. Top of liner (ft.)							
16. Setting depth (ft.)			5674				
17. Number of centralizers used			32				
18. Hrs. waiting on cement before drill-out			24+				
1st Slurry	19. API cement used: No. of sacks		580				
	Class		TXI				
	Additives		Remarks				
2nd Slurry	No. of sacks		626				
	Class		Class "C"				
	Additives		Remarks				
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)		1583				
	Height (ft.)		5056				
2nd	Volume (cu. ft.)		833				
	Height (ft.)		2658				
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)		2958				
	Height (ft.)		7714				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?			no				

1st TXI+8%D020+3%D154+0.2%D065+0.2%D046+5ppsD042+0.4%D167  
2nd Class C+0.3%D201+0.2%D046

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								

CEMENTER'S 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.

**Sonali Shah**

**Dowell Schlumberger**



Name and title of cementer's representative

Cementing Company

Signature

32 E. Industrial Loop

Midland, Texas 79701

(432) 683-1887

## March 10 2013

Address

City, State, Zip Code

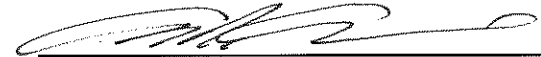
Tel.: Area Code Number

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. (Al) Arlian**

**Regulatory Specialist**



Typed or printed name of operator's representative

Title

Signature

511-16th Street, Suite 700, Denver, Colorado 80202

303-350-5114

5-20-2013

Address

City, State, Zip Code

Tel.: Area Code Number

Date: mo. day yr.

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

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's State 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 **Form 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 13 (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 1,000 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

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

1. Operator's Name (As shown on Form P-5, Organization Report) <b>Enduring Resources LLC</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>42-383-38096</b>	7. Drilling Permit No. <b>751139</b>	
8. Lease Name <b>University 09</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. <b>0906H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				4/1/2013			
13. ● Drilling hole size				8-7/8			
● Est. % wash or hole enlargement				10			
14. Size of casing (in. O.D.)				5-1/2			
15. Top of liner (ft.)							
16. Setting depth (ft.)				17,861			
17. Number of centralizers used				54			
18. Hrs. waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks ▶			743			
	Class ▶			TXI			
	Additives ▶			REMARKS			
2nd Slurry	No. of sacks ▶			3058			
	Class ▶			POZ:H			
	Additives ▶			REMARKS			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			2036			
	Height (ft.) ▶			8059.6			
2nd	Volume (cu. ft.) ▶			3792			
	Height (ft.) ▶			15011.8			
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			5828			
	Height (ft.) ▶			23071			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				Yes			
1st	TXI+8% D20+3% D154+0.4% D207+0.4% D65+5ppsD42+0.8% D13+0.2% D46+ 0.125ppsD130+0.2% D208						
2nd	50/50POZ:H+0.2% D46+0.35% D65+0.25% D207+0.1% D201+0.05% D208						
3rd	0 FTL# BYHM-00150						
4th	0 Circulated 100 bbls						

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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**Andrew Everett, FE**

**Dowell Schlumberger**



Name and title of cementer's representative

Cementing Company

Signature

32 E. Industrial Loop

Midland, Texas 79701

(432) 683-1887

1-Apr-13

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 operator's representative

Title

Signature

511-16th Street, Suite 700, Denver, Colorado 80202

303-350-5114

5-20-5114

Address

City, State, Zip Code

Tel.: Area Code Number

Date: mo. day yr.

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

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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 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 13 (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 1,000 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 **November 13, 2012**

GAU File No.: SC- **11157**

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

API Number **38300000**

Attention: **AL ARLIAN**

RRC Lease No. **751139**

**SC\_252014\_38300000\_751139\_11157.pdf**

**ENDURING RESOURCES LLC  
511-16TH ST  
STE 700  
DENVER CO 80202  
P-5# 252014**

--Measured--

**990 ft FWL**

**450 ft FNL**

**MRL:SECTION**

Digital Map Location:  
X-coord/Long **1599674**  
Y-coord/Lat **591605**  
Datum **27** Zone **C**

County **REAGAN**

Lease & Well No. **UNIVERSITY 09 #0906H**

Purpose **ND**

Location **SUR-UL, BLK-9, SEC-9, -- [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 475 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).**

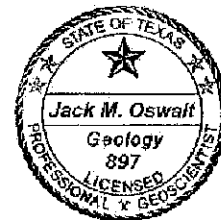
If you have any questions, please contact us at 512-463-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

  
Digitally signed by Jack Oswalt  
DN: c=US, st=TEXAS, |r=Austin,  
o=Railroad Commission of Texas,  
cn=Jack Oswalt,  
email=jack.oswalt@rrc.state.tx.us  
Date: 2012.11.13 10:17:04 -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 11/13/2012  
Note: Alteration of this electronic document will invalidate the digital signature.

