



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

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

Status: Approved  
Date: 06/14/2017  
Tracking No.: 172216

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

**OPERATOR INFORMATION**

**Operator Name:** SEM OPERATING COMPANY LLC      **Operator No.:** 766370  
**Operator Address:** SUITE 1850 2050 WEST SAM HOUSTON PKWY S HOUSTON, TX 77042-0000

**WELL INFORMATION**

**API No.:** 42-235-35002      **County:** IRION  
**Well No.:** 0906H      **RRC District No.:** 7C  
**Lease Name:** UNIVERSITY 43      **Field Name:** LIN (WOLFCAMP)  
**RRC Lease No.:** 17569      **Field No.:** 53613750  
**Location:** Section: 9, Block: 43, Survey: UL, Abstract:  
  
**Latitude:** 31.12517      **Longitude:** -101.23933  
**This well is located**      3.8      **miles in a**      WEST  
**direction from**      BARNHART,  
**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:** 12/26/2016  
**Type of Permit**      **Date**      **Permit No.**  
**Permit to Drill, Plug Back, or Deepen**      02/29/2012      734094  
**Rule 37 Exception**  
**Fluid Injection Permit**  
**O&G Waste Disposal Permit**  
**Other:**

**COMPLETION INFORMATION**

**Spud date:** 11/26/2012      **Date of first production after rig released:** 12/26/2016  
**Date plug back, deepening, recompletion, or drilling operation commenced:** 11/26/2012      **Date plug back, deepening, recompletion, or drilling operation ended:** 11/26/2012  
**Number of producing wells on this lease in this field (reservoir) including this well:** 17      **Distance to nearest well in lease & reservoir (ft.):** 40.0  
**Total number of acres in lease:** 4164.80      **Elevation (ft.):** 2633      GR  
**Total depth TVD (ft.):** 6750      **Total depth MD (ft.):** 14572  
**Plug back depth TVD (ft.):** 6750      **Plug back depth MD (ft.):** 14572  
**Was directional survey made other than inclination (Form W-12)?** Yes      **Rotation time within surface casing (hours):** 48.0  
**Is Cementing Affidavit (Form W-15) attached?** Yes  
**Recompletion or reclass?** No      **Multiple completion?** No  
**Type(s) of electric or other log(s) run:** Combo of Induction/Neutron/Density  
**Electric Log Other Description:**  
**Location of well, relative to nearest lease boundaries**      **Off Lease :** No  
**of lease on which this well is located:**      7850.0 **Feet from the**      North **Line and**  
      2910.0 **Feet from the**      West **Line of the**  
      UNIVERSITY 43 **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.):** 750.0      **Date:** 06/27/2012  
**SWR 13 Exception**      **Depth (ft.):**

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

**Date of test:** 01/21/2017      **Production method:** Flowing  
**Number of hours tested:** 24      **Choke size:** OPEN  
**Was swab used during this test?** No      **Oil produced prior to test:** 1072.00

**PRODUCTION DURING TEST PERIOD:**

**Oil (BBLs):** 810.00      **Gas (MCF):** 1187  
**Gas - Oil Ratio:** 1465      **Flowing Tubing Pressure:** 288.00  
**Water (BBLs):** 1483

**CALCULATED 24-HOUR RATE**

**Oil (BBLs):** 810.0      **Gas (MCF):** 1187  
**Oil Gravity - API - 60.:** 43.3      **Casing Pressure:** 940.00  
**Water (BBLs):** 1483

**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	9 5/8	12 1/4	800			C	542	721.0	SURF	Circulated to Surface ACE
2	Conventional Production	5 1/2	8 3/4	14572			CJ916	2985	4588.0	SURF	Circulated to Surface ACE

**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	6172	6119 / WLS PKR

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 7113	14480.0

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

**Was hydraulic fracturing treatment performed?** Yes

**Is well equipped with a downhole actuation sleeve?** No      **If yes, actuation pressure (PSIG):**

**Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:** 1500      **Actual maximum pressure (PSIG) during hydraulic fracturing:** 500

**Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?** Yes

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	459,570 BBL SLICKWATER; 17,231,932 LBS 100 MESH SAND; 102,000 GAL OF 7.5% HCL	7113 - 14480

**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	1088.0	1088.0	Yes	ISOLATED BY CEMENT
SAN ANDRES	Yes	2046.0	2046.0	Yes	ISOLATED BY CEMENT
CLEARFORK	Yes	3664.0	3664.0	Yes	ISOLATED BY CEMENT
SPRAYBERRY	Yes	5346.0	5346.0	Yes	ISOLATED BY CEMENT
WOLFCAMP	Yes	6912.0	6912.0	Yes	ISOLATED BY CEMENT
CANYON	No			No	DID NOT ENCOUNTER. TD IN WOLFCAMP.
FUSSELMAN	No			No	DID NOT ENCOUNTER. TD IN WOLFCAMP.

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**

KOP: 6,181'

**RRC REMARKS****PUBLIC COMMENTS:**

[RRC Staff 2017-04-27 16:03:28.193] EDL=7305 feet, max acres=300, 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: Mandi Prince

Title: Regulatory Assistant

Telephone No.: (903) 705-0829

Date Certified: 05/03/2017

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>EOG RESOURCES</b>		2. RRC Operator No. <b>253162</b>	3. RRC District No. <b>7C</b>	4. County of Well Site <b>IRION</b>
5. Field Name (Wildcat or Exactly as Shown on RRC Records) <b>Lin (Wolfcamp)</b>		6. API No. <b>42-235-35002</b>		7. Drilling Permit No. <b>734094</b>
8. Lease Name <b>UNIVERSITY 43</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>17569</b>	11. Well Number <b>0906H</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		<b>11/28/2012</b>					
13. *Drilled Hole Size		<b>12.25</b>					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		<b>9.625</b>					
15. Top of Liner (ft)							
16. Setting Depth (ft)		<b>800</b>					
17. Number of Centralizers Used		<b>7</b>					
18. Hrs. Waiting on Cement Before Drill-Out		<b>24+</b>					
1st Slurry	19. API Cement Used: No. of Sacks >	<b>500</b>					
	Class >	<b>C</b>					
	Additives >	<b>Remarks # 1</b>					
2nd Slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	<b>665.00</b>					
	Height (ft) >	<b>2115.00</b>					
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	<b>665.00</b>					
	Height (ft) >	<b>2115</b>					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		<b>NO</b>					
22. Remarks							
<b>REMARKS # 1 CLASS C + 2% CACL2 + 0.25% R-38</b>							

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 this 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.

<b>DANIEL AGUILAR</b> Name and Title of Cementer's Representative	<b>RISING STAR SERVICES LP</b> Cementing Company	<i>[Signature]</i> Signature
<b>P.O. BOX 61193 MIDLAND TX 79711</b> Address City State Zip Code	<b>(432) 617-0114</b> Tel. Area Code Number	<b>NOVEMBER 26 2012</b> 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.

<u>Renee Jarratt</u> Typed or Printed Name of Operators Representative	<u>Regulatory Analyst</u> Title	<i>[Signature]</i> Signature
<u>P.O. Box 2267, Midland, TX 79702</u> Address City State Zip Code	<u>432-686-3684</u> Tel. Area Code Number	<u>11/23/13</u> 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.

Commenter: 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
EOG Resources, Inc.	253162	7C	IRION
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
Lin (Wolfcamp)	42-235-35002	734094	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
UNIVERSITY 43		17569	0906H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		11/30/2012					
13. *Drilled Hole Size		12.250					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		9.625					
15. Top of Liner (ft)							
16. Setting Depth (ft)		800					
17. Number of Centralizers Used		7					
18. Hrs. Waiting on Cement Before Drill-Out		24+					
1st slurry	19. API Cement Used: No. of Sacks >	42					
	Class >	CLASS C					
	Additives >	SEE REMARKS					
2nd slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	55.86					
	Height (ft) >	178.36					
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	56					
	Height (ft) >	178					
21. Was Cement Circulated to Ground Surface (or Bottom of Celler) Outside Casing?		YES					
22. Remarks							
CLASS C + 2% CACL2 + 0.25% R-38							
CIRCULATED 5BBLs 21SKS OF CEMENT TO SURFACE							

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.

**THOMAS PERLEY**

Name and Title of Cements Representative

**RISING STAR SERVICES LP.**

Cementing Company

Signature

**P.O. BOX 61193**

**MIDLAND**

**TX.**

**79711**

**(432) 617-0114**

**November 30, 2012**

Address

City

State

Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

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**Renee Jarratt**

Typed or Printed Name of Operators Representative

**Regulatory Analyst**

Title

Signature

**P.O. Box 2267, Midland, TX 79702**

**432-686-3684**

**5/23/13**

Address

City

State

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Tel: Area Code Number

Date: Mo. Day Yr.

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- 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.



# RAILROAD COMMISSION OF TEXAS

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

## Form W-15

Rev. 08/2014

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

### CEMENTING REPORT

#### OPERATOR INFORMATION

Operator Name: SEM Operating Company LLC	Operator P-5 No.: 766370
Cementer Name: C&J ENERGY SERVICES	Cementer P-5 No.: 120532

#### WELL INFORMATION

District No.: 7C	County: IRION	
Well No.: 0906H	API No.: 235-35002	Drilling Permit No.: 819826
Lease Name: UNIVERSITY 43	Lease No.: 17569	
Field Name: LIN (Wolfcamp)	Field No.: 53613750	

#### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production

Drilled hole size (in.): 8 3/4      Depth of drilled hole (ft.): 14572      Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 5 1/2      Casing weight (lbs/ft) and grade: 17, HCP110      No. of centralizers used: 5319

Was cement circulated to ground surface (or bottom of cellar) outside casing?  YES  NO      If no for surface casing, explain in Remarks.

Setting depth shoe (ft.): 14572      Top of liner (ft.):  
Setting depth liner (ft.):

Hrs. waiting on cement before drill-out:      Calculated top of cement (ft.): Surface      Cementing date: 11-14-16

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	645	CJ916	SEE REMARKS	1593	6306
2	2340	CJ916	SEE REMARKS	2995	11857
3					
<b>Total</b>	2985			4588	18163

#### II. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement shoe  Multiple parallel strings

Drilled hole size (in.):      Depth of drilled hole (ft.):      Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):      Casing weight (lbs/ft) and grade:      No. of centralizers used:

Tapered string drilled hole size (in.)      Tapered string depth of drilled hole (ft.)  
Upper:      Lower:      Upper:      Lower:

Tapered string size of casing in O.D. (in.)      Tapered string casing weight (lbs/ft) and grade      Tapered string no. of centralizers used  
Upper:      Lower:      Upper:      Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?  YES  NO      Setting depth shoe (ft.):

Hrs. waiting on cement before drill-out:      Calculated top of cement (ft.):      Cementing date:

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

#### III. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement/DV tool  Multiple parallel strings

Drilled hole size (in.):      Depth of drilled hole (ft.):      Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):      Casing weight (lbs/ft) and grade:      No. of centralizers used:

Tapered string drilled hole size (in.)      Tapered string depth of drilled hole (ft.)  
Upper:      Lower:      Upper:      Lower:

Tapered string size of casing in O.D. (in.)      Tapered string casing weight (lbs/ft) and grade      Tapered string no. of centralizers used  
Upper:      Lower:      Upper:      Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?  YES  NO      Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:      Calculated top of cement (ft.):      Cementing date:

#### SLURRY

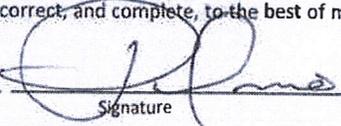
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

**REMARKS**

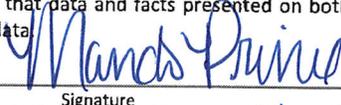
LEAD:50:50CJ010:CJ916+5%CJ111+10%CJ020+0.4%CJ211 TAIL:50:50CJ010:CJ916+2%CJ020+0.25%CJ511+0.1%CJ725+0.15%CJ211 CEMENT TO PITS 97BBL/221SX

**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.

**CARLOS A PALOMO SERVICE SUPERVISOR C&J ENERGY SERVICES** 

Name and title of cementer's representative: 8001 W. Industrial City, State, Zip Code: Midland, TX 79706 Tel: Area Code Number: 432-561-5822 Date: mo. day yr. 11-14-16

**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.

Mandi Prince Regulatory Asst. 

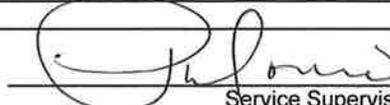
Typed or printed name of operator's representative: 2050 W. Sam Houston Pkwy, Suite 1850 City, State, Zip Code: Houston 77042 Tel: Area Code Number: 9037050829 Date: mo. day yr. 4-17-17

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

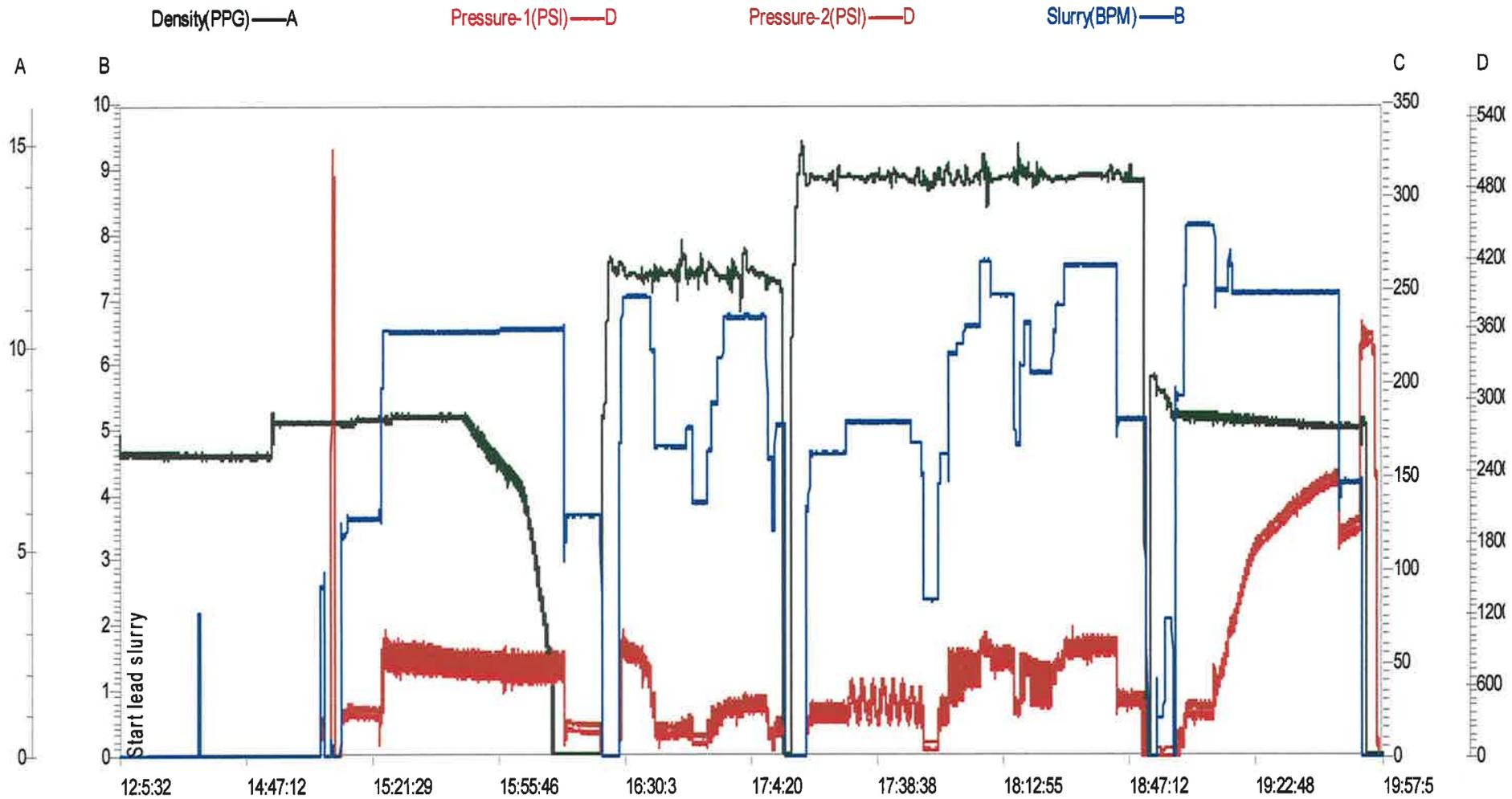
**NOTICE:** The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- 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.  
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form 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. How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). 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.
- D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

# CEMENT TREATMENT REPORT

<b>Customer:</b> SEQUITUR			<b>Date:</b> 11/14/2016			<b>Invoice #:</b> 0			<b>Serv. Supv:</b> CARLOS A PALOMO		
<b>Lease:</b> UNIVERSITY 43			<b>Well Name:</b> UNIVERSITY 43 0906H						<b>County:</b> IRION		
<b>District:</b> MIDLAND			<b>Rig:</b> FLEX RIG 499			<b>Type of Job:</b> 5 1/2 PRODUCTION					
<b>Plugs</b>		<b>Casing Hardware</b>				<b>Physical Slurry Properties</b>					
						<b>Sacks of Cement</b>	<b>Slurry Wt PPG</b>	<b>Slurry Yield CuFt</b>	<b>Water GPS</b>	<b>Slurry Bbls</b>	<b>Mix Water Bbls</b>
<b>Materials Furnished by C &amp; J</b>											
<b>Spacer:</b>		OBM RECOVERY BRINE 1 gal/bbl CJ880 + 1 gal/bbl CJ883 + 5 gals CJ773L				9.5				40	
		BRINE				9.5				350	
		40 BBLS CWS 280 SPACER + 10.77lbs/bbl CJ700 + 56.78 lbs/bbl CJ300 + 2lbs/bbl CJ701				9.5				40	
<b>LEAD:</b>		50:50 CJ010:CJ916 + 5% CJ111 + 10% CJ020 + .4% CJ211				645		11.8		2.47	
		TAIL: 50:50 CJ010:CJ916 + 2% CJ020+ 0.25% CJ511 + 0.1% CJ725 + 0.15% CJ211				2340		14.2		1.28	
								5.99		533	
										334	
<b>HOLE</b>			<b>TUBING - CASING - DRILL PIPE</b>					<b>COLLAR DEPTHS</b>			
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>SIZE</b>	<b>WGT</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>GRADE</b>		<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>
8 3/4	25	14572	5 1/2	17	CASING	14569	P110		46.44	14522.56	
<b>LAST CASING</b>			<b>PKR / CMT RET / LINER PKR</b>		<b>PERF DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>		
<b>SIZE</b>	<b>WT</b>	<b>DEPTH</b>	<b>BRAND / TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT</b>
9 5/8	40	797						5 1/2	BUTT	OBM	10
<b>DISPL VOLUME</b>		<b>DISPL FLUID</b>		<b>CAL PSI</b>				<b>MAX COLLAPSE (O)</b>		<b>MAX CSG PRESSURE</b>	
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT</b>	<b>BMP PLUG</b>			<b>RATED</b>	<b>WORKING</b>	<b>RATED</b>	<b>WORKING</b>	<b>MIX WATER</b>
337.6	BBLS	WBM	8.34	1723			7460	5968	10640	8512	555
<b>Time</b>	<b>Rate</b>	<b>Pressure</b>	<b>Bbls Pumped</b>	<b>Fluid Type</b>	<b>Time Left Yard</b>		5:30	<b>Time Left Loc</b>		22:00	
					<b>Time Arrived Loc</b>		8:15	<b>Time Arrived Yard</b>		0:00	
500					PERCONVOY MEETING						
815					ON LOCATION REQUESTED FOR 1300 / RIG RUNNING CASING						
830					WATER CHL < 500 S < 200 PH - 7						
840					RIG UP & STAGING MEETING						
910					START RIG UP						
1030					PRIME PUMPS						
1100					RIG UP & PRIME UP COMPLETE WAITING ON RIG						
1130					HEAD TO FLOOR FOR CIRCULATION						
1410					SAFETY MEETING						
1440					RIG UP FLOOR						
1500	2	100	3	WATER	LOAD LINES						
1505		5000			PRESSURE TEST LINES TO HEAD						
1507	3.5	244	40	BRINE	OBM RECOVERY BRINE						
1519	6.5	930	0	BRINE	START BRINE TO CIRCULATE WELL						
1607	6.5	835	310	BRINE	END BRINE						
1608	3.5	260	0	SPACER	OTF SPACER AHEAD						
1617	3.6	249	40	SPACER	END OTF SPACER / BATCH UP LEAD SLURRY TO 11.8 PPG						
1622	7	874	0	LEAD	START LEAD SLURRY						
1707	3	291	284	LEAD	END LEAD SLURRY / BATCH UP TAIL SLURRY TO 14.2 PPG						
1713	4	320	0	TAIL	START TAIL SLURRY						
1755	6.3	717	200	TAIL	RATE & PRESSURE CHECK						
1825	7.5	944	400	TAIL	RATE & PRESSURE CHECK						
1846	5	517	533	TAIL	END TAIL						
1848					LOAD PLUG / WASH PUMP & LINES						
1854	5	224	10	WATER	START DISPLACEMENT WITH 10 BBLS SUGAR WATER						
1857	8	448	20	WATER	CONTINUE DISPLACEMENT WITH FW + BIOCIDE+ CJ773L						
1905	7	642	80	WATER	SLOW RATE CATCHING SOME PRESSURE						
1915	7	1718	150	WATER	RATE & PRESSURE CHECK						
1929	7	2189	240	WATER	<b>CEMENT RETURNS TO PITS 221 SX / 97 BBLS</b>						
1939	4	2406	310	WATER	SLOW RATE TO BUMP PLUG						
1945	4	3599	335	WATER	<b>BUMPED @ 335 BBLS WITH 3599 PSI FINAL LIFT OF 2062</b>						
1950					FLOAT HELD 3 BBLS RETURNED						
1955					RIG DOWN MEETING						
2010					FINISH CLEANING UP PUMP & BEGIN RIG DOWN						
2130					JOB COMPLETE C&J RELEASED						
<b>Bumped Plug</b>	<b>Final Lift Pressure</b>	<b>Floats Held</b>	<b>PSI Left on Casing</b>	<b>Cement to Surface</b>	 Service Supervisor						
3599	2062	YES	0	97 Bbls							

Date:11-14-16 Well Name:SEQUITUR UNIVERSITY 43 0906H Location: Country: Operator:ERIC BROWN Supervisor:CARLOS A PALOMO Type of Job:5 1/2 PRODUCTION Contact Address: Comment:PUMP 1029



Chart

Tracking No.: 172216

*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: SEM OPERATING COMPANY LLC	District No. 7C	Completion Date: 12/26/2016
Field Name LIN (WOLFCAMP)	Drilling Permit No. 734094	
Lease Name UNIVERSITY 43	Lease/ID No. 17569	Well No. 0906H
County IRION	API No. 42- 235-35002	

**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). \_\_\_\_\_

\_\_\_\_\_  
 Mandi Prince  
 Signature  
 SEM OPERATING COMPANY LLC  
 Name (print)

\_\_\_\_\_  
 Regulatory Assistant  
 Title  
 (903) 705-0829  
 Phone  
 04/19/2017  
 Date

-FOR RAILROAD COMMISSION USE ONLY-



Basic Energy Services

University 43 #0906H

Scale 5":100' - MD

11/12/2016 6:31 AM

Oper. Company: Sequitur

Well: University 43 #0906H

Field: Wolfcamp

Rig: HP 499

Well ID: 42-235-35002

Job Number: 40978491

State: Texas

County: Irion

Country: USA

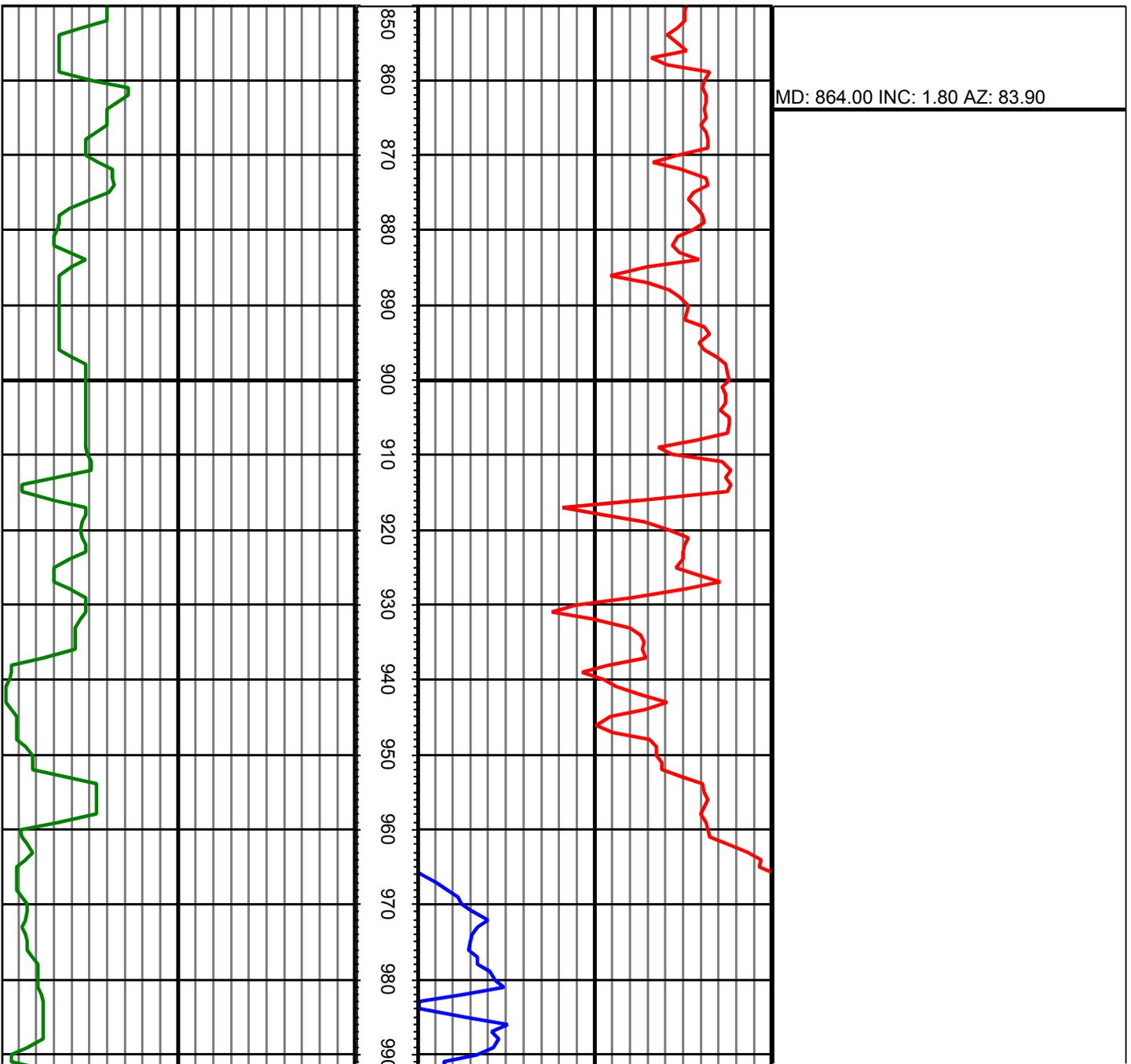
Location: Irion County

Start Date: 11/06/2016 13:00:00

End Date: 11/12/2016 00:15:00

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

0.00	GR(API)	300.00	MD	0.00	ROP(FT/HR)	400.00	Surveys (MD/INC/AZ)
300.00	2	600.00	FT	400.00	2	800.00	



**CERTIFICATE OF COMPLIANCE  
 AND TRANSPORTATION AUTHORITY**

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.: 172216

1. Field name exactly as shown on proration schedule <b>LIN (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UNIVERSITY 43</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>SEM OPERATING COMPANY LLC</b>		4. Operator P-5 no. <b>766370</b>	5. Oil Lse/Gas ID no. <b>17569</b>	6. County <b>IRION</b>	7. RRC district <b>7C</b>		
8. Operator address including city, state, and zip code <b>SUITE 1850 2050 WEST SAM HOUSTON PKWY S HOUSTON, TX 77042</b>		9. Well no(s) (see instruction E) <b>0906H</b>			11. Effective Date <b>12/26/2016</b>		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)					
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 checked="" 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)							
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	LUCID ENERGY WESTEX, LLC(511943)			0001	14.0	
X	X	WTG GAS PROCESSING, L.P.(945227)			0005	43.0	
X	X	DCP OPERATING COMPANY, LP(195959)			0001	43.0	
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
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>06/14/2017</u>							
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> 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 _____				Signature _____			
Name (print) _____				<input type="checkbox"/> <b>Authorized Employee of previous operator</b>		<input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>	
Title _____				Date _____		Phone with area code _____	
<b>16. CURRENT OPERATOR CERTIFICATION.</b> 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.							
SEM OPERATING COMPANY LLC				Mandi Prince			
Name (print) _____				Signature _____			
Regulatory Assistant				<input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b>		<input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>	
Title _____				Date <u>04/19/2017</u>		Phone with area code <u>(903) 705-0829</u>	
E-mail Address (optional) <u>mprince@sequitenergy.com</u>				Date _____		Phone with area code _____	

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 172216

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 SEM OPERATING COMPANY LLC ,

UNIVERSITY 43 , No. 0906H ; that such well is  
LEASE OPERATOR WELL

completed in the LIN (WOLFCAMP) Field, IRION 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 \_\_\_\_\_

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

Date 04/19/2017 Signature Mandi Prince

Telephone (903) 705-0829 Title Regulatory Assistant  
AREA CODE



# RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

## Acreege Designation

### SECTION I. OPERATOR INFORMATION

Operator Name: SEM Operating Company, LLC	Operator P-5 No.: 766370
Operator Address:	

### SECTION II. WELL INFORMATION

District No.: 7C	County: Irion	Purpose of Filing: <input checked="" type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 0906H	API No.: 42-235-35002	
Total Lease Acres: 4164.8	Drilling Permit No.:	
Lease Name: UNIVERSITY 43	Lease No.:	
Field Name: LIN WOLFCAMP	Field No.: 53613750	

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

### SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
17569	0901H	H	UNIVERSITY 43	235-34705	40	N	
17569	0902H	H	UNIVERSITY 43	235-34711	40	N	
17569	0903H	H	UNIVERSITY 43	235-34925	40	N	
17569	0904H	H	UNIVERSITY 43	235-34999	40	N	
17569	0905H	H	UNIVERSITY 43	235-34930	40	N	
17569	0906H	H	UNIVERSITY 43	235-35002	40	N	
17569	0907H	H	UNIVERSITY 43	235-34931	40	N	
17569	0908H	H	UNIVERSITY 43	235-35004	40	N	
17569	0909H	H	UNIVERSITY 43	235-34932	40	N	
17569	0911H	H	UNIVERSITY 43	235-34935	40	N	
17569	0913H	H	UNIVERSITY 43	235-35087	40	N	
17569	1001H	H	UNIVERSITY 43	235-34591	40	N	
17569	1003H	H	UNIVERSITY 43	235-34984	40	N	
17569	1005H	H	UNIVERSITY 43	235-34993	40	N	
17569	1007H	H	UNIVERSITY 43	235-34982	40	N	
17569	1009H	H	UNIVERSITY 43	235-34996	40	N	
17569	1011H	H	UNIVERSITY 43	235-35000	40	N	

Total Well Count >	17	680	< A. Total Assigned Horiz. Acreage	680	< C. Total Assigned Acreage
		3484.80	< Total Remaining Horiz. Acreage	3484.80	< Total Remaining Acreage
			< B. Total Assigned Vert./Dir. Acreage		
			< Total Remaining Vert./Dir. Acreage		

### SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

The permit application is for the recompletion of University 43 #0906H.

Attach Additional Pages As Needed.  No additional pages  Additional Pages: \_\_\_\_ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

*Amber Moore*  
Signature

Amber Moore, Landman  
Name and title (type or print)

amoore@sequitirenergy.com  
Email (include email address only if you affirmatively consent to its public release)

13075 Richmond Ave., Suite 292

Houston, Texas 77042

(432) 218-2001

10/27/2016

Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date June 27, 2012

GAU File No.: SC- 6378

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

API Number 23534999

Attention: RENEE JARRATT

RRC Lease No. 000000

SC\_253162\_23534999\_000000\_6378.pdf

EOG RESOURCES INC  
P O BOX 2267  
MIDLAND TX 79702

--Measured--

2694 ft FEL

2550 ft FNL

MRL: SECTION

Digital Map Location:

X-coord/Long 1716422

Y-coord/Lat 531592

Datum 27 Zone C

P-5# 253162

County IRION

Lease & Well No. UNIVERSITY 43 #0904H&ALL

Purpose RD

Location SUR-UL, BLK-43, SEC-9, -- [TD=6750], [RRC 7C], [PSC#6284]

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 750 feet, must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

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

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

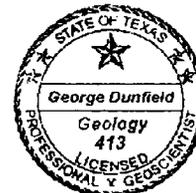
Sincerely,

  
Digitally signed by George Dunfield  
DN: cn=U.S., st=TEXAS, fo=Austin, o=Railroad  
Commission of Texas, cn=George  
Dunfield,  
email=george.dunfield@rrc.state.tx.us  
Date: 2012.06.27 15:09:26 -0500

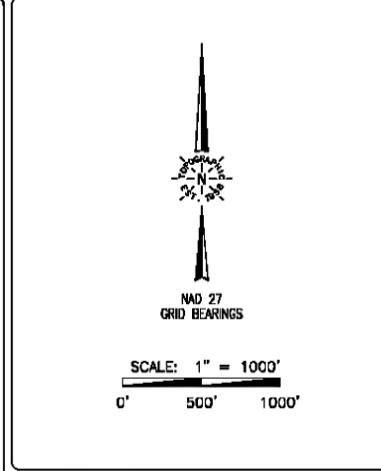
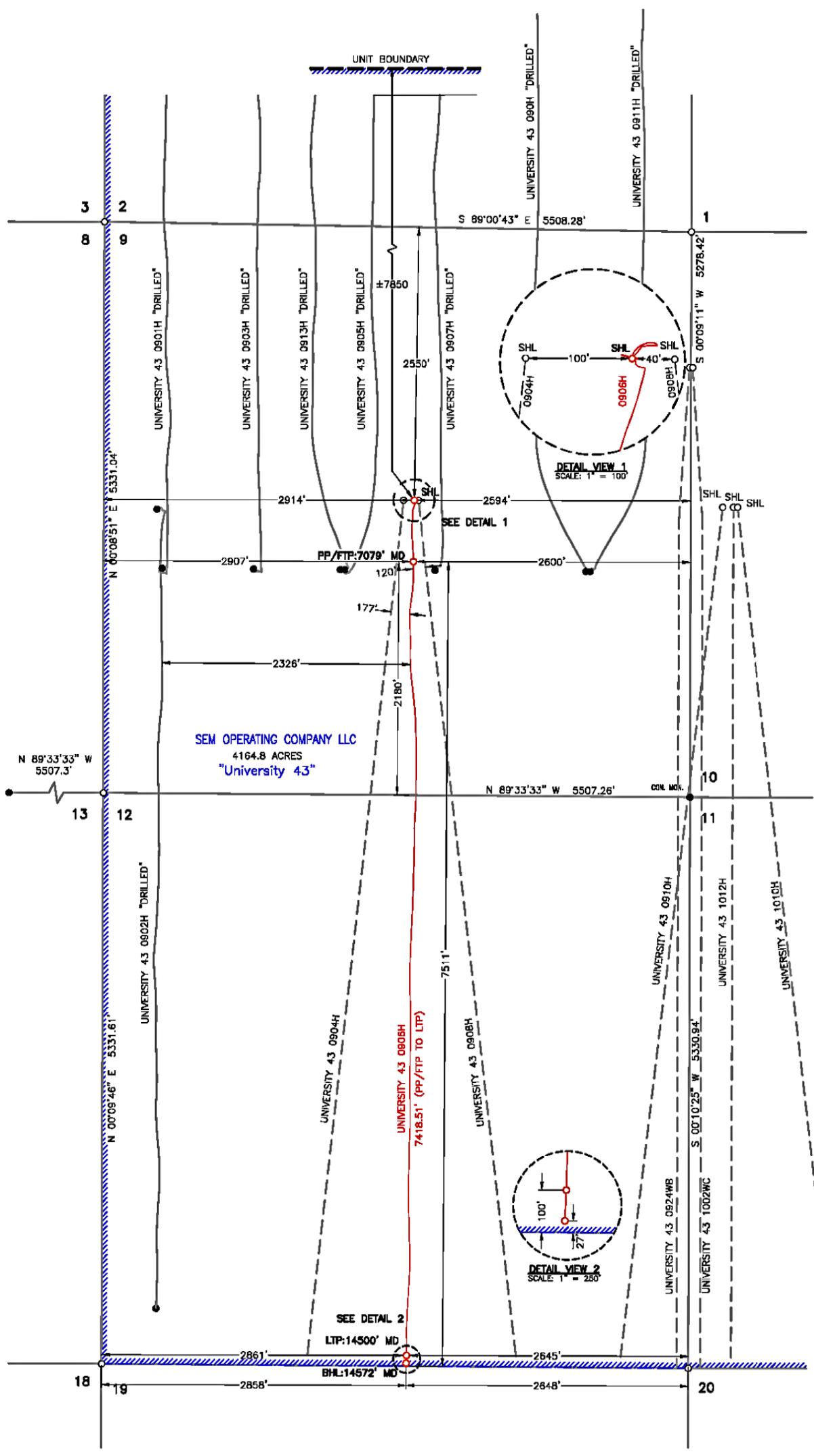
George Dunfield, P.G.

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

GEOLOGIST SEAL



The seal appearing on this document was authorized by George Dunfield on 6/27/2012  
Note: Alteration of this electronic document will invalidate the digital signature.



**SPECIAL NOTES:**

Original Document Size: 11"x17"  
 All Coordinates are in NAD 27  
 TX-C Zone unless otherwise noted.

Original Document Size: 11"x17"  
 All Coordinates are in NAD 27  
 TX-C Zone unless otherwise noted.

**Surface Hole Location:**  
 2550' FNL & 2594' FEL (SEC. 9)  
 SHL Ground Elevation: 2633'  
 X = 1716522 Y = 531592  
 LAT.: N 31.1251767 LONG.: W 101.2393314  
 NAD 83 TX-C ZONE  
 X = 2012989 Y = 10374170  
 LAT.: N 31.1253361 LONG.: W 101.2397229

**Penetration Point/First Take Point:**  
 2180' FSL & 2600' FEL (SEC. 9)  
 X = 1718514 Y = 531019  
 LAT.: N 31.1236017 LONG.: W 101.2393418

**Last Take Point Location:**  
 100' FSL & 2645' FEL (SEC. 12)  
 X = 1716448 Y = 523608  
 LAT.: N 31.1032234 LONG.: W 101.2393607

**Bottom Hole Location:**  
 27' FSL & 2648' FEL (SEC. 12)  
 X = 1716444 Y = 523535  
 LAT.: N 31.1030232 LONG.: W 101.2393702

**LEGEND**

	Section Line
	Black Line
	Abstract Line
	Tract Line
	Lease Road
	County Road
	Unit/Lease Boundary
	Found Monument
	Set 1/2" Rebar w/cap
	Calculated Corner

Scale: 1"=1000' Surveyed: 5/29/12

COGO: 518-124590

Revision: 1(MV) 06/02/17

Drawn By: MR; 04/20/2017

ORIGINAL DOC. SIZE: 11"x17"

**CERTIFICATION:**  
 This well location shown on this permit plat was surveyed under my direct supervision. All As-Drilled information provided by client. This plat is for Texas Railroad Commission permit purpose only and should not be considered a boundary survey.

*William J. Keating*  
 Texas Reg. No. 5041



**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1863 OR (800) 787-1888 • FAX (432) 682-1743  
 WWW.TOPOGRAPHIC.COM  
 Texas FIRM Registration NO. 10042500  
 FILE NAME: AD\_UNIVERSITY\_43\_0906H\_REV1

**SEM OPERATING COMPANY LLC**

EASE NAME & WELL NO.:  
**UNIVERSITY 43 #0906H "AS-DRILLED"**  
 TOPOGRAPHY & VEGETATION:  
 NATURAL MESQUITE PASTURE  
 NEAREST TOWN IN COUNTY:  
 ±3.8 MILES WEST OF BARNHART, TEXAS  
 LOCATION DESCRIPTION:  
 SHL/PP/FTP: SECTION 9, BLOCK 43, UNIVERSITY LAND SURVEY  
 LTP/BHL: SECTION 12, BLOCK 43, UNIVERSITY LAND SURVEY  
 IRION COUNTY, TEXAS