RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 02/07/2018
Tracking No.: 184809

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.: 42-383-39869 **County:** REAGAN
Well No.: 2902WB **RRC District No.:** 7C
Lease Name: UNIVERSITY 9 **Field Name:** LIN (WOLFCAMP)
RRC Lease No.: 17639 **Field No.:** 53613750
Location: Section: 29, Block: 9, Survey: UL, Abstract:

Latitude: 31.238431 **Longitude:** -101.586222
This well is located 8.1 **miles in a** NW **direction from** BIG LAKE, **which is the nearest town in the county.**

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing **Completion or Recompletion Date:** 11/28/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	08/28/2017	826219
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/22/2017 **Date of first production after rig released:** 11/28/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 07/08/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 08/02/2017
Number of producing wells on this lease in this field (reservoir) including this well: 14 **Distance to nearest well in lease & reservoir (ft.):** 3447.0
Total number of acres in lease: 5812.20 **Elevation (ft.):** 2677 GL
Total depth TVD (ft.): 8160 **Total depth MD (ft.):** 16531
Plug back depth TVD (ft.): 8160 **Plug back depth MD (ft.):** 16531
Was directional survey made other than inclination (Form W-12)? Yes **Rotation time within surface casing (hours):** 72.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No **Multiple completion?** No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)
Electric Log Other Description:

Location of well, relative to nearest lease boundaries of lease on which this well is located: 7381.0 **Feet from the** North **Line and** 430.0 **Feet from the** East **Line of the** UNIVERSITY 9 **Lease.** **Off Lease :** No

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.):** 650.0 **Date:** 05/04/2017

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 12/02/2017 **Production method:** Flowing

Number of hours tested: 24 **Choke size:** OPEN

Was swab used during this test? No **Oil produced prior to test:** 523.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 434.00 **Gas (MCF):** 90

Gas - Oil Ratio: 207 **Flowing Tubing Pressure:** 290.00

Water (BBLS): 1910

CALCULATED 24-HOUR RATE

Oil (BBLS): 434.0 **Gas (MCF):** 90

Oil Gravity - API - 60.: 44.0 **Casing Pressure:** 380.00

Water (BBLS): 1910

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	745			CJ912	600	1081.0	SURFACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	7522			J-55, L-80	1835	3825.0	2820	Calculation
3	Conventional Production	5 1/2	8 3/4	16526			HCP-110	3095	4791.0	SURFACE	Circulated to Surface

LINER RECORD

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By

N/A

TUBING RECORD

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7516	7504 / AS1X

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8621	16428.0

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	SAND: 12,460,631; WATER: 263,285; ACID: 70,686	8621	16428

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
GRAYBURG	Yes	1500.0	1500.0	Yes	ISOLATED BY CEMENT
QUEEN	Yes	1900.0	1900.0	Yes	ISOLATED BY CEMENT
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	2000.0	2000.0	Yes	ISOLATED BY CEMENT
CLEARFORK	Yes	3300.0	3300.0	Yes	ISOLATED BY CEMENT
SPRABERRY	Yes	6775.0	6775.0	Yes	ISOLATED BY CEMENT
WOLFCAMP	Yes	7695.0	7695.0	Yes	ISOLATED BY CEMENT
STRAWN	No			No	DID NOT ENCOUNTER. TD IN WOLFCAMP.
FUSSELMAN	No			No	DID NOT ENCOUNTER. TD IN WOLFCAMP.
ELLENBURGER	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: 7,615'

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2018-01-26 12:09:19.741] EDL=7807 feet, max acres=320, 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:** 01/23/2018

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: SEQUITUR ENERGY	**Operator P-5 No.:** 766370
Cementer Name: C&J Well Services	**Cementer P-5 No.:** 120534

WELL INFORMATION

District No.: 7C	**County:** REGAN	
Well No.: 2902 WB 0	**API No.:** 383-39869	**Drilling Permit No.:** 826219
Lease Name: UNIVERSITY9	**Lease No.:** 17639	
Field Name: Lin Wolfcamp	**Field No.:** 53613750	

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☑ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 17 1/2	**Depth of drilled hole (ft.):** 745	**Est. % wash-out or hole enlargement:** 20%
Size of casing in O.D. (in.): 13 3/8	**Casing weight (lbs/ft) and grade:** 54.5#, J-55	**No. of centralizers used:** 10
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.):** 745	**Top of liner (ft.):** / **Setting depth liner (ft.):**
Hrs. waiting on cement before drill-out: 96	**Calculated top of cement (ft.):** surface	**Cementing date:**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	260	CLASS C	SEE REMARKS	629	896
2	340	CLASS C	SEE REMARKS	452	663
3					
Total	600			1081	1559

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

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

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

LEADCJ912+2%CJ110+2%CJ031+3LB/SKCJ610TAILCJ912+1%CJ110+.25LB/SKCJ600CIRCULATED 116SKSTOSURFACE

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.

JAQUAY WILBURN, Field Supervisor — Name and title of cementer's representative

C&J Well Services — Cementing Company

Signature

8001 W. Industrial Ave, Midland, TX. 79706 — Address

City, State, Zip Code

432.561.5822 — Tel: Area Code Number

5/22/15 — 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.

Mandy Prince — Typed or printed name of operator's representative

Regulatory Asst. — Title

Mandy Prince — Signature

~~909 ESE Loop 323~~ Suite 777 — Address

Tyler, Tx 75701 — City, State, Zip Code

903-705-0829 — Tel: Area Code Number

12-21-17 — Date: mo. day yr.

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). 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.

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: SEQUITUR ENERGY	**Operator P-5 No.:** 766370
Cementer Name: C&J Well Services	**Cementer P-5 No.:** 120532

WELL INFORMATION

District No.: 7C	**County:** REAGAN	
Well No.: 9-2902WB	**API No.:** 383-35469	**Drilling Permit No.:** 826219
Lease Name: UNIVERSITY	**Lease No.:** 17639	
Field Name: Lin Wolfcamp	**Field No.:** 53613750	

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☑ Intermediate ☐ Liner ☑ Production

Drilled hole size (in.): 12 1/4	**Depth of drilled hole (ft.):** 7522	**Est. % wash-out or hole enlargement:** 25%
Size of casing in O.D. (in.): 9 5/8	**Casing weight (lbs/ft) and grade:** 40#, L-80	**No. of centralizers used:** 45
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.):** 7522	**Top of liner (ft.):** / **Setting depth liner (ft.):**
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):** 4500	**Cementing date:** 7-19-17

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1235	CLASS C	SEE REMARKS	3075	9823
2	600	CLASS H	SEE REMARKS	750	2402
3					
Total	1835			3825	12225

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

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

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 50:50 CJ010:CJ916+ 5% CJ111 + 10%CJ020 + 3 LB/SK CJ610 + .25 LB/SK CJ600 + .15% CJ701 + .3% CJ211 TAIL 50:50 CJ010:CJ916+2%CJ111+2%CJ020+.2%CJ501

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.

Scott Peel, Supervisor — Name and title of cementer's representative
C&J Well Services — Cementing Company
Signature
8001 W. Industrial Ave, Midland, TX. 79706 — Address, City, State, Zip Code
432.561.5822 — Tel: Area Code Number
7-19-17 — 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.

Mandi Prince — Typed or printed name of operator's representative
Regulatory Asst. — Title
Mandi Prince — Signature
909 ESE Loop 323 Suite 777 Tyler, Tx 75701 — Address, City, State, Zip Code
9037050829 — Tel: Area Code Number
12-21-17 — Date: mo. day yr.

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). 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.

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: PATRIOT RESOURCES	**Operator P-5 No.:** 766370
Cementer Name: C&J Energy Services	**Cementer P-5 No.:** 120532

WELL INFORMATION

District No.: 7C	**County:** REAGAN	
Well No.: 2902WB	**API No.:** 383-39869	**Drilling Permit No.:** 826219
Lease Name: UNIVERSITY 9	**Lease No.:** 17639	
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.):** 16526	**Est. % wash-out or hole enlargement:** 20%
Size of casing in O.D. (in.): 5 1/2	**Casing weight (lbs/ft) and grade:** 20#, HCP-110	**No. of centralizers used:** 146
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.):** 16526	**Top of liner (ft.):**
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):** surface	**Cementing date:** 08-1-17

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	715	CLASS H	SEE REMARKS	1701	6734
2	2380	CLASS H	SEE REMARKS	3090	12,247
3					
Total	3095			4791	18,981

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

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

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 SLURRY 50:50 CJ010:CJ916+10%CJ020+0.2%CJ031+2%CJ042+0.4%CJ211+2%CJX157011+0.15%CJ415 TAIL SLURRY 50:50 CJ010:CJ916+2%CJ020+0.25%CJ511+0.1%CJ725+0.1%CJ210F CIRCULATED 65 BBLS 153 SKS

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.

JESUS LOPEZ	C&J ENERGY SEVICES		
Name and title of cementer's representative	Cementing Company	Signature	
8001 W. Industrial AVE.	Midland , TX 79706	(432)561-5822	08-1-17
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.

Mandy Prince	Regulatory Asst.	Mandy Prince	
Typed or printed name of operator's representative	Title	Signature	
909 ESE Loop 323 Suite 777 Tyler, Tx 75701		9037050829	12-21-17
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

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). 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.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 184809

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: 11/28/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 826219	
Lease Name UNIVERSITY 9	Lease/ID No. 17639	Well No. 2902WB
County REAGAN	API No. **42-** 383-39869	

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	Regulatory Assistant Title
SEM OPERATING COMPANY LLC Name (print)	(903) 705-0829 Phone 12/21/2017 Date

-FOR RAILROAD COMMISSION USE ONLY-

Aim Directional Services, LLC

University 9 #2902WB
Scale 1":100' - TVD
7/30/2017 6:10 AM

Oper. Company: Sequitur Energy Resources
Well: University 9 #2902WB
Field: Wolfcamp
Rig: H&P #467
Well ID: 42-383-39869
Job Number: WT-17-138

State: TX
County: Reagan
Country: USA
Location: Best
Start Date: 07/09/2017 12:39:21
End Date: 07/29/2017 18:10:00

Latitude: 31 14 18.382N
Longitude: 101 35 10.399W

Elev GL: 2677
Elev DF: 2703
Elev KB: 2703

Operator 1: Juan Patino
Operator 2: Bo Aluka

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	G-077	G-079	G-007	G-035	G-021
Bit Size	12 1/4	12 1/4	12 1/4	12 1/4	8 3/4
Cal Factor	7.54	7.63	7.49	6.54	4.76
Survey Offset	55.00	55.00	55.00	55.00	50.00
Gamma Offset	41.00	40.00	40.00	40.00	36.00
Resisitivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	750.00	5282.00	5300.00	5461.00	7522.00
StartDate	7/9/2017	7/13/2017	7/14/2017	7/15/2017	7/20/2017
StartTime	15:30	14:02	14:05	15:09	18:24
EndDepth	5282.00	5300.00	5461.00	7522.00	7619.00
EndDate	7/13/2017	7/14/2017	7/15/2017	7/18/2017	7/21/2017
EndTime	12:59	12:03	12:18	22:22	08:00
Mud Type	Brine/ WBM	WBM	WBM	WBM	OBM
Mud Weight	10	9.1	9.2	9.1	10
Funnel Viscosity	34	34	34	34	85
Plastic Viscosity	4	6	6	6	26
Yield Point	7	7	7	7	14
Gel Strength	7/8	7/10	7/10	7/10	14/19
Solids Content	5.7	5	5	5	12.8
Sand Content	trc	trc	trc	trc	trc
Mud Alkalinity	0.15	0.15	0.15	0.15	2.8
Filtrate Alkalinity	0.2	0.2	0.2	0.2	N/A
Chlorides	30000	23000	23000	23000	44000
Temperature	105	100	100	110	110

Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	G-021	G-092	G-023		
Bit Size	8 3/4	8 3/4	8 3/4		
Cal Factor	4.76	5.27	4.309		
Survey Offset	56.00	58.00	56.00		
Gamma Offset	40.00	40.00	42.00		
Resisitivity Offset	0.00	0.00	0.00		
Start Depth	7619.00	7699.00	8474.00		
StartDate	7/21/2017	7/22/2017	7/24/2017		
StartTime	09:03	11:20	22:40		
EndDepth	7699.00	8474.00	0.00		
EndDate	7/22/2017	7/24/2017			
EndTime	04:09	06:00			
Mud Type	OBM	OBM	OBM		
Mud Weight	10	10	10.1		

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.texas.gov

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 184809

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
LIN (WOLFCAMP)	UNIVERSITY 9			
3. Current operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no.	5. Oil Lse/Gas ID no	6. County	7. RRC district
SEM OPERATING COMPANY LLC	766370	17639	REAGAN	7C
8. Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
SUITE 1850 2050 WEST SAM HOUSTON PKWY S HOUSTON, TX 77042	2902WB			
	10. Classification: [X] Oil [ ] Gas [ ] Other *(see instruction A)*			11. Effective Date: 11/28/2017

12. Purpose of Filing. (Complete section a or b below.) *(See instructions B and G)*

a. Change of: [ ] operator [ ] oil or condensate gatherer [ ] gas gatherer [ ] gas purchaser [ ] gas purchaser system code
[ ] field name from _____
[ ] lease name from _____

OR

b. New RRC Number for: [X] oil lease [ ] gas well [ ] other well (specify) _____ **Due to:** [X] new completion or recompletion [ ] reclass oil to gas [ ] reclass gas to oil [ ] 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	WTG GAS PROCESSING, L.P.(945227)	0001	50.0	
X	X	ENERGY TRANSFER COMPANY(252017)	0001	50.0	

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G).*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take
PLAINS MARKETING, L.P.(667883)	100.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 02/07/2018

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.

Name of Previous Operator

Signature

Name (print)

[ ] **Authorized Employee of previous operator**

[ ] **Authorized agent of previous operator** *(see instruction G)*

Title

Date

Phone with area code

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

SEM OPERATING COMPANY LLC
Name (print)

Mandi Prince
Signature

Regulatory Assistant
Title

[X] **Authorized Employee of current operator**

[ ] **Authorized agent of current operator** *(see instruction G)*

mprince@sequiturenergy.com
E-mail Address (optional)

12/21/2017
Date

(903) 705-0829
Phone with 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

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name: SEM Operating Company, LLC	**Operator P-5 No.:** 766370
Operator Address: 2050 West Sam Houston Parkway S., Suite 1850, Houston, Texas 77042	

SECTION II. WELL INFORMATION

District No.: 7C	**County:** Reagan	**Purpose of Filing:**
Well No.: 2902WB	**API No.:**	☒ Drilling Permit Application (Form W-1)
Total Lease Acres: 5812.2	**Drilling Permit No.:**	☐ Completion Report (Form G-1/W-2)
Lease Name: UNIVERSITY 9	**Lease No.:** 17639	
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)
17639	2802H	H	UNIVERSITY 9	383-37139	360	N	
17639	2803H	H	UNIVERSITY 9	383-37356	280	N	
17639	2803LH	H	UNIVERSITY 9	383-37594	300	N	
17639	2804H	H	UNIVERSITY 9	383-37425	300	N	
17639	2805H	H	UNIVERSITY 9	383-37490	300	N	
17639	2806H	H	UNIVERSITY 9	383-37489	300	N	
17639	2807H	H	UNIVERSITY 9	373-37643	300	N	
17639	2808H	H	UNIVERSITY 9	383-37828	300	N	
17639	2810H	H	UNIVERSITY 9	383-38068	300	N	
17639	2816WB	H	UNIVERSITY 9	383-39745	40	N	
17639	2820WA	H	UNIVERSITY 9	383-39746	40	N	
17639	2814WB	H	UNIVERSITY 9	383-39747	40	N	
17639	2901WB	H	UNIVERSITY 9		40	N	
17639	2902WB	H	UNIVERSITY 9		40	N	

Total Well Count >	15	2940	< A. Total Assigned Horiz. Acreage	2940	< C. Total Assigned Acreage
		2872.2	< Total Remaining Horiz. Acreage	2872.2	< Total Remaining Acreage
		2872.2	< B. Total Assigned Vert./Dir. Acreage		
			< Total Remaining Vert./Dir. Acreage		

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

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.

Signature	Name and title (type or print)	Email (include email address *only* if you affirmatively consent to its public release)
	Amber Moore, Landman	amoore@sequiturenergy.com

Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
2050 West Sam Houston Parkway S., Suite 1850	Houston	Texas	77042	(432) 218-2001		May 3, 2017

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued:	04 May 2017	**GAU Number:**	171662

Attention:	SEM OPERATING COMPANY SUITE 1850 HOUSTON, TX 77042	**API Number:**	
		County:	REAGAN
		Lease Name:	UNIVERSITY 9
		Lease Number:	
Operator No.:	766370	**Well Number:**	2913WA
		Total Vertical Depth:	8000
		Latitude:	31.235140
		Longitude:	-101.592273
		Datum:	NAD27

Purpose: New Drill

Location: Survey-UL; Block-9; Section-29

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

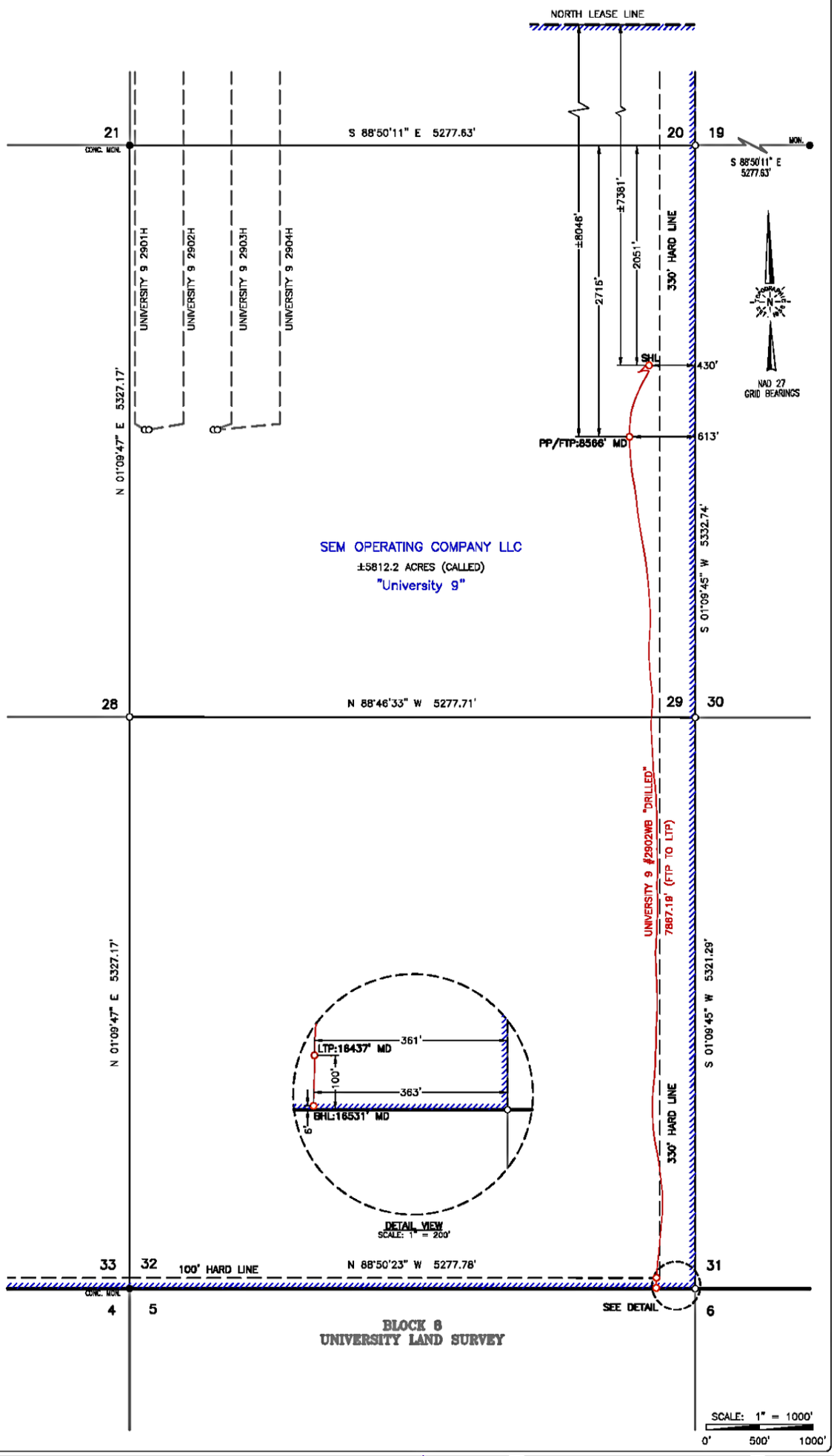
The interval from the land surface to 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth between 625 and 650 feet.

This recommendation is applicable for all wells drilled in this sec. 29.

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

This determination is based on information provided when the application was submitted on 05/04/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division



Surface Hole Location:

GROUND ELEVATION:

SHL Ground Elevation: 2677'

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608451.20 Y = 573833.19

LAT.: N 31°14'18.35" LONG.: W 101°35'10.40"

LAT.: N 31.2384311 LONG.: W 101.5862218

NAD 83 TX-C ZONE:

X = 1904919.22 Y = 10416409.98

LAT.: N 31°14'18.90" LONG.: W 101°35'11.83"

LAT.: N 31.2385832 LONG.: W 101.5866190

SURVEY LINE PERPENDICULARS:

2051' FNL & 430' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:

7381' FNL & 430' FEL

Penetration Point/ First Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608255.07 Y = 573172.01

LAT.: N 31°14'11.79" LONG.: W 101°35'12.57"

LAT.: N 31.2366072 LONG.: W 101.5868255

NAD 83 TX-C ZONE:

X = 1904723.09 Y = 10415748.81

LAT.: N 31°14'12.33" LONG.: W 101°35'14.00"

LAT.: N 31.2367594 LONG.: W 101.5872227

SURVEY LINE PERPENDICULARS:

2716' FNL & 613' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:

8046' FNL & 613' FEL

Last Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608347.39 Y = 565330.56

LAT.: N 31°12'54.19" LONG.: W 101°35'10.49"

LAT.: N 31.2150515 LONG.: W 101.5862476

NAD 83 TX-C ZONE:

X = 1904815.38 Y = 10407907.37

LAT.: N 31°12'54.74" LONG.: W 101°35'11.92"

LAT.: N 31.2152044 LONG.: W 101.5866448

SURVEY LINE PERPENDICULARS:

100' FSL & 361' FEL (SEC. 32)

UNIT LINE PERPENDICULARS:

100' FSL & 361' FEL

Bottom Hole Location:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608343.56 Y = 565236.41

LAT.: N 31°12'53.25" LONG.: W 101°35'10.52"

LAT.: N 31.2147925 LONG.: W 101.5862564

NAD 83 TX-C ZONE:

X = 1904811.54 Y = 10407813.22

LAT.: N 31°12'53.80" LONG.: W 101°35'11.95"

LAT.: N 31.2149455 LONG.: W 101.5866536

SURVEY LINE PERPENDICULARS:

6' FSL & 363' FEL (SEC. 32)

UNIT LINE PERPENDICULARS:

6' FSL & 363' FEL

All Coordinates are in NAD 27 TX-C Zone unless otherwise noted.

REV#-BY	DATE REVISED

REV#-BY	DATE REVISED
1-XXX	XX/XX/XX

SPECIAL NOTES:

LEGEND

- Unit Boundary
- Section Lines
- Block Line
- E — Powerline
- Pipeline
- Lease Road
- Calculated Corner

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.

STATE OF TEXAS REGISTERED WILLIAM J. KEATING 5041 PROFESSIONAL LAND SURVEYOR

William J. Keating

Texas Reg. No. 5041

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM
Texas FIRM Registration NO. 10042500

AD_UNIVERSITY_9_2902WB

SEM OPERATING COMPANY LLC

LEASE NAME & WELL NO.:

UNIVERSITY 9 #2902WB "AS-DRILLED"

TOPOGRAPHY & VEGETATION:

NATURAL MESQUITE PASTURE

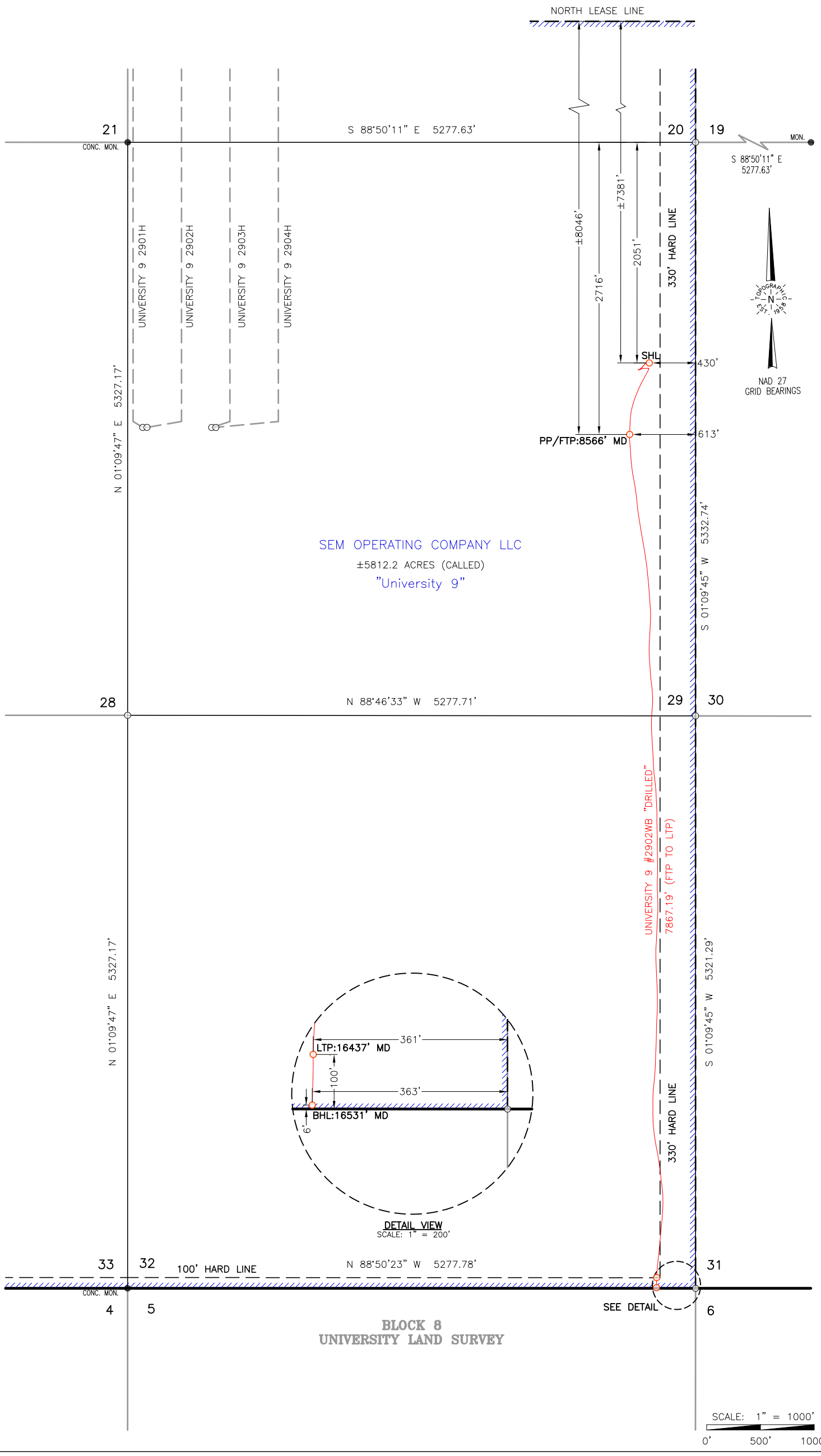
NEAREST TOWN IN COUNTY:

±8.1 MILES NORTHWEST OF BIG LAKE, TEXAS

LOCATION DESCRIPTION:

SHL/PP/FTP: SECTION 29, BLOCK 9, UNIVERSITY LANDS SURVEY
LTP/BHL: SECTION 32, BLOCK 9, UNIVERSITY LANDS SURVEY
REAGAN COUNTY, TEXAS

Scale: 1" = 1000'	Surveyed: 12-14-17	ORIGINAL DOC. SIZE: 11"x17"
COGO: 519-89429		Drawn By: IG; 12-15-2017



Surface Hole Location:

GROUND ELEVATION:

SHL Ground Elevation: 2677'

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608451.20 Y = 573833.19

LAT.: N 31°14'18.35" LONG.: W 101°35'10.40"

LAT.: N 31.2384311 LONG.: W 101.5862218

NAD 83 TX-C ZONE:

X = 1904919.22 Y = 10416409.98

LAT.: N 31°14'18.90" LONG.: W 101°35'11.83"

LAT.: N 31.2385832 LONG.: W 101.5866190

SURVEY LINE PERPENDICULARS:

2051' FNL & 430' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:

7381' FNL & 430' FEL

Penetration Point/ First Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608255.07 Y = 573172.01

LAT.: N 31°14'11.79" LONG.: W 101°35'12.57"

LAT.: N 31.2366072 LONG.: W 101.5868255

NAD 83 TX-C ZONE:

X = 1904723.09 Y = 10415748.81

LAT.: N 31°14'12.33" LONG.: W 101°35'14.00"

LAT.: N 31.2367594 LONG.: W 101.5872227

SURVEY LINE PERPENDICULARS:

2716' FNL & 613' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:

8046' FNL & 613' FEL

Last Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608347.39 Y = 565330.56

LAT.: N 31°12'54.19" LONG.: W 101°35'10.49"

LAT.: N 31.2150515 LONG.: W 101.5862476

NAD 83 TX-C ZONE:

X = 1904815.38 Y = 10407907.37

LAT.: N 31°12'54.74" LONG.: W 101°35'11.92"

LAT.: N 31.2152044 LONG.: W 101.5866448

SURVEY LINE PERPENDICULARS:

100' FSL & 361' FEL (SEC. 32)

UNIT LINE PERPENDICULARS:

100' FSL & 361' FEL

Bottom Hole Location:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1608343.56 Y = 565236.41

LAT.: N 31°12'53.25" LONG.: W 101°35'10.52"

LAT.: N 31.2147925 LONG.: W 101.5862564

NAD 83 TX-C ZONE:

X = 1904811.54 Y = 10407813.22

LAT.: N 31°12'53.80" LONG.: W 101°35'11.95"

LAT.: N 31.2149455 LONG.: W 101.5866536

SURVEY LINE PERPENDICULARS:

6' FSL & 363' FEL (SEC. 32)

UNIT LINE PERPENDICULARS:

6' FSL & 363' FEL

All Coordinates are in NAD 27 TX-C Zone unless otherwise noted.

REV#-BY	DATE REVISED	REV#-BY	DATE REVISED
		1-XXX	XX/XX/XX

SPECIAL NOTES:

LEGEND

- Unit Boundary
- Section Lines
- Block Line
- E — Powerline
- Pipeline
- Lease Road
- Calculated Corner

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.

STATE OF TEXAS REGISTERED WILLIAM J. KEATING 5041 PROFESSIONAL LAND SURVEYOR

William J. Keating

Texas Reg. No. 5041

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM
Texas FIRM Registration NO. 10042500

AD_UNIVERSTIY_9_2902WB

SEM OPERATING COMPANY LLC

LEASE NAME & WELL NO.:

UNIVERSITY 9 #2902WB "AS-DRILLED"

TOPOGRAPHY & VEGETATION:

NATURAL MESQUITE PASTURE

NEAREST TOWN IN COUNTY:

±8.1 MILES NORTHWEST OF BIG LAKE, TEXAS

LOCATION DESCRIPTION:

SHL/PP/FTP: SECTION 29, BLOCK 9, UNIVERSITY LANDS SURVEY
LTP/BHL: SECTION 32, BLOCK 9, UNIVERSITY LANDS SURVEY
REAGAN COUNTY, TEXAS

Scale: 1" = 1000'	Surveyed: 12-14-17	ORIGINAL DOC. SIZE: 11"x17"
	COGO: 519-89429	Drawn By: IG; 12-15-2017