



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 12/01/2017
Tracking No.: 179840

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.: 42-383-39818
Well No.: 1201WB
Lease Name: UNIVERSITY 09C
RRC Lease No.: 18623
Location: Section: 12, Block: 9, Survey: UL, Abstract:

Latitude: 31.286890
Longitude: -101.652982
This well is located 13.2 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: 08/27/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	02/28/2017	823573
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 04/22/2017	Date of first production after rig released: 08/27/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/30/2017	Date plug back, deepening, recompletion, or drilling operation ended: 06/15/2017
Number of producing wells on this lease in this field (reservoir) including this well: 4	Distance to nearest well in lease & reservoir (ft.): 1980.0
Total number of acres in lease: 4926.74	Elevation (ft.): 2629 GL
Total depth TVD (ft.): 8335	Total depth MD (ft.): 19215
Plug back depth TVD (ft.): 7833	Plug back depth MD (ft.): 19215
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 72.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 10057.0 Feet from the South Line and 2969.0 Feet from the East Line of the UNIVERSITY 9C Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
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PACKET: N/A

W2:	N/A			
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:				
GAU Groundwater Protection Determination		Depth (ft.):	500.0	Date: 03/02/2017
SWR 13 Exception		Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 09/06/2017		Production method: Flowing
Number of hours tested: 24		Choke size: OPEN
Was swab used during this test?	No	Oil produced prior to test: 3851.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 800.00		Gas (MCF): 559
Gas - Oil Ratio: 698		Flowing Tubing Pressure: 510.00
Water (BBLS): 1305		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 800.0		Gas (MCF): 559
Oil Gravity - API - 60.:	43.0	Casing Pressure: 4058.00
Water (BBLS): 1305		

CASING RECORD											
Row	Type of Casing	Casing Hole		Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size (in.)	Size (in.)	Depth (ft.)	Stage	Tool		Amount (sacks)	Volume (cu. ft.)	Cement (ft.)	Determined By
1	Surface	13 3/8	17 1/2	578			CJ912	630	838.0	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	7715			C, H	1700	3489.0	200	Calculation
3	Conventional Production	5 1/2	8 3/4	19190			H	4075	5948.0	SURF ACE	Circulated to Surface

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

TUBING RECORD			
Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7682	7689 / AS1X

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8792	19100.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG):	
No			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		Actual maximum pressure (PSIG) during hydraulic fracturing:	
3879		1850	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes	
<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

1	Fracture	20,458,741 100 MESH, 4,835,020 - 40/70	8792	19100
2	Cast Iron Bridge Plug	CIBP - 100 SACKS OF CEMENT , H CLASS, 15.6LBS, 119 CF SLURRY.	7833	8118

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	2500.0	2500.0	Yes	ISOLATED BY CEMENT
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	2000.0	2000.0	Yes	ISOLATED BY CEMENT
CLEARFORK	Yes	4000.0	4000.0	Yes	ISOLATED BY CEMENT
SPRABERRY	Yes	7166.0	7166.0	Yes	ISOLATED BY CEMENT
WOLFCAMP	Yes	8144.0	8144.0	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: 7,780

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2017-11-01 11:19:59.969] EDL=10348 feet, max acres=400, 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: 11/27/2017



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: SEQUER ENERGY			Operator P-5 No.:		
Cementer Name: C&J ENERGY SERVICES			Cementer P-5 No.: 120532		
WELL INFORMATION					
District No.: 7C			County: REAGAN		
Well No.: 1111 WB			API No.: 383-39818		Drilling Permit No.: 823573
Lease Name: UNIVERSITY 9C			Lease No.: 18623		
Field Name: Lin Wolfcamp			Field No.: 53613750		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 17 1/2		Depth of drilled hole (ft.): 578		Est. % wash-out or hole enlargement: 70%	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: J-55S45		No. of centralizers used: 25	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 578	
				Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 72		Calculated top of cement (ft.): surface		Cementing date: 4-23-2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	630	CJ912	1% CJ110+0.25% PPS CJ600	838	1206
2					
3					
Total	630			838	1206
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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
CIRCULATED 33 BBLS /139SX TO SURFACE

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

Cementing Company

Signature

8001 W. Industrial

Midland, TX 79706

432-561-5822

4-23-17

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.

Typed or printed name of operator's representative

Title

Signature

SEM Operating Company LLC

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

909 ESE Loop 323

Suite 777

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 Back Pressure 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.

- 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.
- 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).
- 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 cements 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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: Sequitur Energy
Cement Name: C&J Energy Services

Operator P-5 No.:
Cement P-5 No.: 120532

WELL INFORMATION

District No.: 7C
Well No.: 1201WB
Lease Name: University 9C

County: REAGAN
API No.: 383-39818
Drilling Permit No.: 823573
Lease No.: 18423
Field No.: 53613780

Field Name: Lin Wolfcamp

I. CASING CEMENTING DATA

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

Drilled hole size (in.): 12 1/4 Depth of drilled hole (ft.): 7715 Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): 9 5/8 Casing weight (lbs/ft) and grade: HCL 80 No. of centralizers used: 825

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.): 7715 Top of liner (ft.):
Setting depth liner (ft.):

Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): 200 Cementing date: 05-13-17

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1190	CLASS C	see additives	2739	8745
2	600	CLASS H	see additives	760	2394
3					
Total	1700			3499	11,139

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					
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.) 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					
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:CJ912+5%CJ111(BWOW)+10%CJ020+3LB/SKCJ810+0.25 LB/SK CJ600+0.3%CJ211 TAIL SLURRY 50:50 CJ010:CJ916+2%CJ020+0.2%CJ501+0.25%CJ210F

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JESUS LOPEZ

C&J Energy Services

Name and title of cementer's representative

Cementing Company

Signature

8001 W. Industrial AVE.

Midland, TX 79706

(432)561-5822

05-13-17

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.

Mandi Prince

Regulatory Asst.

Signature

Typed or printed name of operator's representative

Title

Signature

903 705 0829

05-25-17

SEM Operating Company LLC

City,

State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

909 ESE Loop 323

Suite 777

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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&r=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&r=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.
- 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.
- 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.
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- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: SEQUITUR ENERGY			Operator P-5 No.: 7106370		
Cementer Name: C&J Well Services			Cementer P-5 No.: 120532		

WELL INFORMATION			
District No.: 7C	County: REAGAN		
Well No.: 1201 WB	API No.: 383-39818	Drilling Permit No.: 823573	
Lease Name: UNIVERSITY 9C	Lease No.: 18623		
Field Name: Lin Wolfcamp	Field No.: 53613750		

I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production					
Drilled hole size (in.): 8 5/4	Depth of drilled hole (ft.): 19190		Est. % wash-out or hole enlargement: 20%		
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: P110, 20		No. of centralizers used: 180		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 19190	Top of liner (ft.):		
			Setting depth liner (ft.):		
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): surface		Cementing date: 6-14-17		

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	625	CLASS H	SEE REMARKS	1462.5	5425
2	3450	CLASS H	SEE REMARKS	4485	17758
3					
Total	4075			5947.5	23184

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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+CJ111+10% CJ020+.5% CJ210F TAIL 50:50 CJ010:CJ916+2% CJ020+.25% CJ511+.1% CJ725+.3% CJ210F CIRCULATE 564 SKS TO THE PIT

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

C&J Well Services

Name and title of cementer's representative

Cementing Company

Signature

8001 W. Industrial Ave, Midland, TX. 79706

432.561.5822

6-14-17

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.

Mandi Prince

Regulatory Asst.

Mandi Prince

Typed or printed name of operator's representative

Title

Signature

SEM Operating Company LLC

9037050829

19-25-17

909 ESE Loop 323

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Suite 777

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.

- 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.
- 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).
- 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/readtac5ext.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.
- 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.
- 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.
- 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.
- 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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: SEQUITUR ENERGY	Operator P-S No.: 764370
Cementor Name: G&J ENERGY	Cementor P-S No.: 120532

WELL INFORMATION

District No.: 2C	County: REAGAN	
Well No.: 1201WB	API No.: 383-39818	Drilling Permit No.: 823578
Lease Name: UNIVERSITY 9C	Lease No.: 18623	
Field Name: Lin Wolfcamp	Field No.: 53613750	

I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
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:			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):	Top of liner (ft.):		
			Setting depth liner (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					

II. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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	05/25/17						
Size of hole or pipe (in.)	8 5/8						
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)	8118						
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	100						
Slurry volume pumped (cu. ft.)	119						
Calculated top of plug (ft.)	7833						
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)	15.6						
Class/type of cement	H						
Perforate and squeeze (YES/NO)							

REMARKS

Tail:CJ916+.2%CJ415+.2%CJ212

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.

Balente Gonzales, Service Supervisor

C&J ENERGY

Balente Gonzales
Signature

Name and title of cementer's representative

Cementing Company

8001 West Industrial Avenue

Midland, TX 79706

432-561-5822

05/25/2017

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.

Mandi Prince

Regulatory Asst.

Mandi Prince
Signature

Typed or printed name of operator's representative

Title

Signature

SEM Operating Company LLC

City,

State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

909 ESE Loop 323

Instructions for Form W-15, Cementing Report

Suite 777

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.

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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.
- 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).
- 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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

Tracking No.: 179840

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: 08/27/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 823573	
Lease Name UNIVERSITY 09C	Lease/ID No. 18623	Well No. 1201WB
County REAGAN	API No. 42- 383-39818	

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

09/26/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-

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: <input checked="checked" type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 1201WB	API No.:	
Total Lease Acres: 4926.74	Drilling Permit No.:	
Lease Name: UNIVERSITY 9C	Lease No.: 18623	
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

[illegible]

Total Well Count >	3	420.0	< A. Total Assigned Horiz. Acreage	420.0	< C. Total Assigned Acreage
		4506.74	< Total Remaining Horiz. Acreage	4506.74	< Total Remaining Acreage
			< B. Total Assigned Vert./Dir. Acreage		
			< Total Remaining Vert./Dir. Acreage		

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

[illegible]

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

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)

2050 West Sam Houston Parkway S., Suite 1850 Houston Texas 77042

City,	State,	Zip Code
-------	--------	----------

(432) 218-2001

Tel: Area Code

February 21, 2017

Date: mo. day yr.

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 02 March 2017**GAU Number:** 168271**Attention:** SEM OPERATING COMPANY
SUITE 1850
HOUSTON, TX 77042**Operator No.:** 766370**API Number:** 38339818
County: REAGAN
Lease Name: UNIVERSITY 9C
Lease Number:
Well Number: 1201WB
Total Vertical Depth: 10000
Latitude: 31.286890
Longitude: -101.652982
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-9; Section-12

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 a depth of 500 feet must be protected.

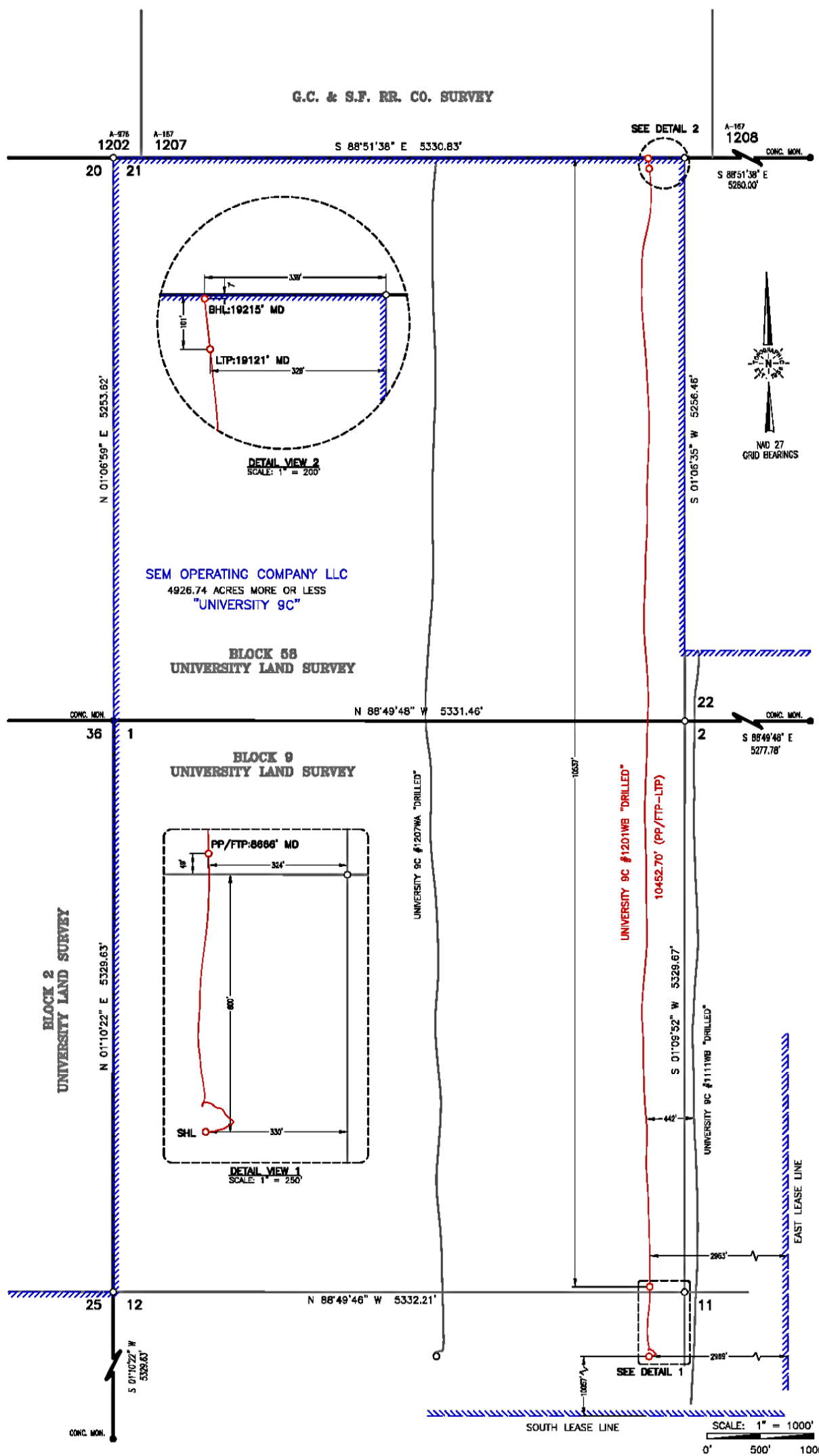
This recommendation is applicable to all wells within a radius of 2000 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is 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 03/01/2017. 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

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014



Surface Hole Location:
GROUND ELEVATION:
SHL Ground Elevation: 2629'
COORDINATES:
NAD 27 TX-C ZONE:
X = 1587797.55 Y = 591698.11
LAT.: N 31°17'12.80" LONG.: W 101°39'10.74"
LAT.: N 31.2868901 LONG.: W 101.6529820
NAD 83 TX-C ZONE:
X = 1884265.56 Y = 10434274.80
LAT.: N 31°17'13.34" LONG.: W 101°39'12.17"
LAT.: N 31.2870401 LONG.: W 101.6533809
SURVEY LINE PERPENDICULARS:
600' FNL & 330' FEL (SEC. 12)
UNIT LINE PERPENDICULARS:
10057' FSL & 2969' FEL

**Penetration Point/
First Take Point:**
COORDINATES:
NAD 27 TX-C ZONE:
X = 1587816.97 Y = 592347.17
LAT.: N 31°17'19.23" LONG.: W 101°39'10.60"
LAT.: N 31.2886752 LONG.: W 101.6529445
NAD 83 TX-C ZONE:
X = 1884284.89 Y = 10434923.86
LAT.: N 31°17'19.77" LONG.: W 101°39'12.04"
LAT.: N 31.2888251 LONG.: W 101.6533434
SURVEY LINE PERPENDICULARS:
49' FSL & 324' FEL (SEC. 1)
UNIT LINE PERPENDICULARS:
10537' FNL & 2963' FEL

Last Take Point:
COORDINATES:
NAD 27 TX-C ZONE:
X = 1588019.70 Y = 602780.44
LAT.: N 31°19'02.52" LONG.: W 101°39'09.69"
LAT.: N 31.3173654 LONG.: W 101.6526917
NAD 83 TX-C ZONE:
X = 1884487.74 Y = 10445357.13
LAT.: N 31°19'03.05" LONG.: W 101°39'11.13"
LAT.: N 31.3175143 LONG.: W 101.6530906
SURVEY LINE PERPENDICULARS:
101' FNL & 328' FEL (SEC. 21)
UNIT LINE PERPENDICULARS:
101' FNL & 328' FEL

Bottom Hole Location:
COORDINATES:
NAD 27 TX-C ZONE:
X = 1588011.32 Y = 602875.01
LAT.: N 31°19'03.45" LONG.: W 101°39'09.80"
LAT.: N 31.3176251 LONG.: W 101.6527221
NAD 83 TX-C ZONE:
X = 1884479.36 Y = 10445451.70
LAT.: N 31°19'03.99" LONG.: W 101°39'11.24"
LAT.: N 31.3177740 LONG.: W 101.6531210
SURVEY LINE PERPENDICULARS:
7' FNL & 339' FEL (SEC. 21)
UNIT LINE PERPENDICULARS:
7' FNL & 339' FEL

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

REV#	BY	DATE REVISED	REV#	BY	DATE REVISED

SPECIAL NOTES:

LEGEND		Unit Boundary
		Section Lines
		Black Line
		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.

William J. Keating
Texas Reg. No. 5041

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79706
TELEPHONE: (432) 882-1863 OR (800) 767-1863 • FAX (432) 882-1743
WWW.TOPOGRAPHIC.COM
Texas FIRM Registration NO. 10042500
AD_UNIVERSITY_9C_1201WB

SEM OPERATING COMPANY LLC

LEASE NAME & WELL NO.:
UNIVERSITY 9C #1201WB "AS-DRILLED"
TOPOGRAPHY & VEGETATION:
NATURAL MESQUITE PASTURE
NEAREST TOWN IN COUNTY:
±13.2 MILES NORTHWEST OF BIG LAKE, TEXAS

LOCATION DESCRIPTION:
SHL: SECTION 12, BLOCK 9, UNIVERSITY LAND SURVEY
PP/FTP: SECTION 1, BLOCK 9, UNIVERSITY LAND SURVEY
LTP/BHL: SECTION 21, BLOCK 58, UNIVERSITY LAND SURVEY
REAGAN COUNTY, TEXAS

Scale: 1" = 1000'	Surveyed: C9-19-16	ORIGINAL DOC. SIZE: 11"x17"
COGO: 519-89429	Drawn By: MV; 09/27/17	