

API No. <u>42-383-39868</u> Drilling Permit # <u>826216</u> SWR Exception Case/Docket No. _____	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	FORM W-1 07/2004 Permit Status: Approved				
1. RRC Operator No. 766370	2. Operator's Name (as shown on form P-5, Organization Report) SEM OPERATING COMPANY LLC	3. Operator Address (include street, city, state, zip): SUITE 1850 2050 WEST SAM HOUSTON PKWY S HOUSTON, TX 77042-0000				
4. Lease Name UNIVERSITY 9		5. Well No. 2901WB				
GENERAL INFORMATION						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth 8000	9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 7C	12. County REAGAN	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore				
14. This well is to be located <u>8.1</u> miles in a <u>NW</u> direction from <u>Big Lake</u> which is the nearest town in the county of the well site.						
15. Section 29	16. Block 9	17. Survey UL				
18. Abstract No. A-	19. Distance to nearest lease line: 100 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 5812.2				
21. Lease Perpendiculars: <u>7368</u> ft from the <u>SOTH</u> line and <u>430</u> ft from the <u>EAST</u> line.		22. Survey Perpendiculars: <u>2046</u> ft from the <u>SOUTH</u> line and <u>430</u> ft from the <u>EAST</u> line.				
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No: _____				
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No						
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
7C	53613750	LIN (WOLFCAMP)	Oil or Gas Well	8000	3547.00	14
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [RRC STAFF May 9, 2017 1:18 PM]: Lease plat found 820774				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>Amber Moore</u> Name of filer </div> <div style="width: 45%;"> <u>May 03, 2017</u> Date submitted </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <u>(432)2182001</u> Phone </div> <div style="width: 45%;"> <u>amoore@sequitirenergy.com</u> E-mail Address (OPTIONAL) </div> </div>		
RRC Use Only Data Validation Time Stamp: May 9, 2017 2:39 PM(Current Version)						

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

Form W-1H 07/2004
Supplemental Horizontal Well Information

Permit Status: **Approved**
The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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A certification of the automated data is available in the RRC's Austin office.*

Permit # **826216**
Approved Date: **May 09, 2017**

1. RRC Operator No. 766370	2. Operator's Name (exactly as shown on form P-5, Organization Report) SEM OPERATING COMPANY LLC	3. Lease Name UNIVERSITY 9	4. Well No. 2901WB
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)**

6. Section 20	7. Block 9	8. Survey UL	9. Abstract	10. County of BHL REAGAN
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11. Terminus Lease Line Perpendiculars 5 ft. from the North line. and 330 ft. from the East line
12. Terminus Survey Line Perpendiculars 5 ft. from the North line. and 300 ft. from the East line
13. Penetration Point Lease Line Perpendiculars 8038 ft. from the South line. and 330 ft. from the East line

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data**

REAGAN (383) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
GRAYBURG	1,500	2,500		1	12/17/2013
QUEEN	1,900	2,500		2	12/17/2013
SAN ANDRES	2,000	5,000	saltwater flow, possibly heavy	3	12/17/2013
CLEARFORK	3,300	4,000		4	12/17/2013
SPRABERRY	3,300	10,000		5	12/17/2013
STRAWN	9,300	10,200		6	12/17/2013
FUSSELMAN	8,800	11,000		7	12/17/2013
ELLENBURGER	8,700	10,500		8	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.
<http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

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:	
Operator No.:	766370	County:	REAGAN
		Lease Name:	UNIVERSITY 9
		Lease Number:	
		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.

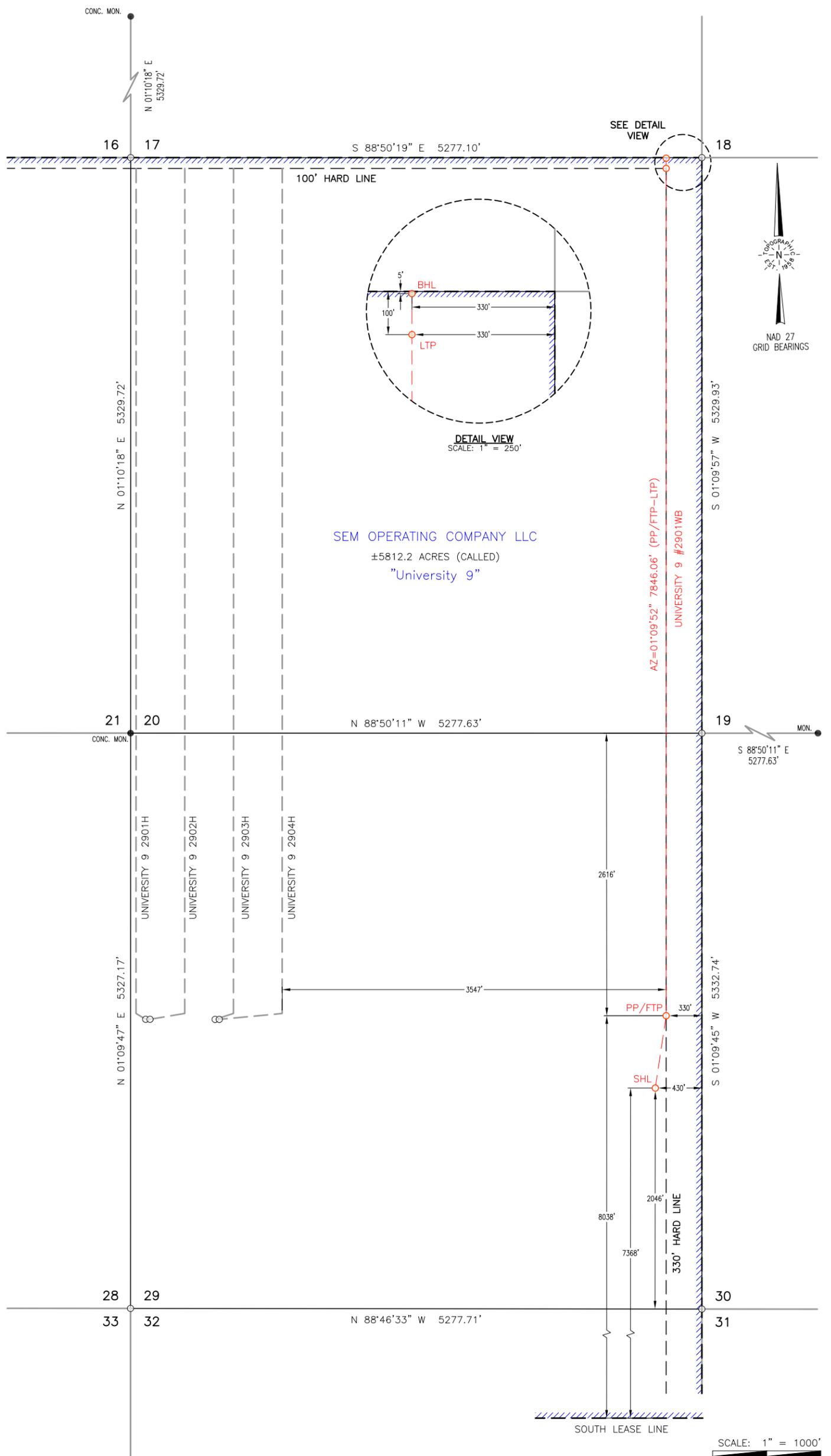
This recommendation is applicable for all wells drilled in this sec. 29.

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

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: 2683'
COORDINATES:
NAD 27 TX-C ZONE:
 X = 1608426.01 Y = 572598.52
 LAT.: N 31°14'06.13" LONG.: W 101°35'10.53"
 LAT.: N 31.2350358 LONG.: W 101.5862580
NAD 83 TX-C ZONE:
 X = 1904894.02 Y = 10415175.31
 LAT.: N 31°14'06.68" LONG.: W 101°35'11.96"
 LAT.: N 31.2351880 LONG.: W 101.5866552

SURVEY LINE PERPENDICULARS:
 2046' FSL & 430' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:
 7368' FSL & 430' FEL

**Penetration Point/
 First Take Point:**
COORDINATES:
NAD 27 TX-C ZONE:
 X = 1608539.57 Y = 573266.20
 LAT.: N 31°14'12.75" LONG.: W 101°35'09.31"
 LAT.: N 31.2368750 LONG.: W 101.5859187
NAD 83 TX-C ZONE:
 X = 1905007.59 Y = 10415842.99
 LAT.: N 31°14'13.30" LONG.: W 101°35'10.74"
 LAT.: N 31.2370271 LONG.: W 101.5863158

SURVEY LINE PERPENDICULARS:
 2616' FNL & 330' FEL (SEC. 29)

UNIT LINE PERPENDICULARS:
 8038' FSL & 330' FEL

Last Take Point:
COORDINATES:
NAD 27 TX-C ZONE:
 X = 1608699.06 Y = 581110.64
 LAT.: N 31°15'30.41" LONG.: W 101°35'08.49"
 LAT.: N 31.2584466 LONG.: W 101.5856909
NAD 83 TX-C ZONE:
 X = 1905167.10 Y = 10423687.43
 LAT.: N 31°15'30.95" LONG.: W 101°35'09.92"
 LAT.: N 31.2585980 LONG.: W 101.5860881

SURVEY LINE PERPENDICULARS:
 100' FNL & 330' FEL (SEC. 20)

UNIT LINE PERPENDICULARS:
 100' FNL & 330' FEL

Bottom Hole Location:
COORDINATES:
NAD 27 TX-C ZONE:
 X = 1608700.99 Y = 581205.62
 LAT.: N 31°15'31.35" LONG.: W 101°35'08.48"
 LAT.: N 31.2587078 LONG.: W 101.5856882
NAD 83 TX-C ZONE:
 X = 1905169.03 Y = 10423782.41
 LAT.: N 31°15'31.89" LONG.: W 101°35'09.91"
 LAT.: N 31.2588592 LONG.: W 101.5860854

SURVEY LINE PERPENDICULARS:
 5' FNL & 330' FEL (SEC. 20)

UNIT LINE PERPENDICULARS:
 5' FNL & 330' FEL

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

REV#-BY	DATE REVISED	REV#-BY	DATE REVISED
1-ED	04/12/17	1-XXX	xx/xx/xx

SPECIAL NOTES:

LEGEND	
	Unit Boundary
	Section Lines
	Block Line
	Powerline
	Pipeline
	Lease Road
	Calculated Corner

CERTIFICATION:

This well location shown on this permit plat was surveyed on the ground under my direct supervision. This plat is for Texas Railroad Commission permit purpose only and should not be considered a boundary survey.

William J. Keating
 Texas Reg. No. 5041



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM
 Texas FIRM Registration NO. 10042500
 LO_UNIVERSITY_9_2901WB_REV1

SEM OPERATING COMPANY LLC

LEASE NAME & WELL NO.:
UNIVERSITY 9 #2901WB
 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 20, BLOCK 9, UNIVERSITY LANDS SURVEY
 REAGAN COUNTY, TEXAS

Scale: 1" = 1000'	Surveyed: 11-10-2016	ORIGINAL DOC. SIZE: 11"x17"
COGO: 519-89429	Drawn By: MP; 11-29-2016	