

API No. <u>42-383-40906</u> Drilling Permit # <u>864665</u> SWR Exception Case/Docket No. <u>0327290 (R37)</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <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>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>
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1. RRC Operator No. <b>665748</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>PIONEER NATURAL RES. USA, INC.</b>	3. Operator Address (include street, city, state, zip): <b>AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702-0000</b>
4. Lease Name <b>UNIVERSITY W2-34D</b>		5. Well No. <b>4H</b>

**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 <b>10165</b>	9. Do you have the right to develop the minerals under any right-of-way ?		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)?		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

**SURFACE LOCATION AND ACREAGE INFORMATION**

11. RRC District No. <b>7C</b>	12. County <b>REAGAN</b>	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>11.9</u> miles in a <u>SW</u> direction from <u>STILES</u> which is the nearest town in the county of the well site.					
15. Section <b>34</b>	16. Block <b>2</b>	17. Survey <b>UL</b>	18. Abstract No. <b>A-U70</b>	19. Distance to nearest lease line: ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>951.8</b>
21. Lease Perpendiculars: <u>1702</u> ft from the <u>S</u> line and <u>918</u> ft from the <u>W</u> line.		22. Survey Perpendiculars: <u>1702</u> ft from the <u>S</u> line and <u>918</u> ft from the <u>W</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	85279200	SPRABERRY (TREND AREA)	Oil or Gas Well	10165	1.00	10

**BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)**

<b>Remarks</b> See W1 Comments attached	<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <div style="text-align: right;"> <u>Sherri Gore</u> <u>Aug 12, 2020</u>            Name of filer Date submitted         </div> <div style="text-align: right;"> <u>(972)969-4000</u> <u>sherri.gore@pxd.com</u>            Phone E-mail Address (OPTIONAL)         </div>
<b>RRC Use Only</b> Data Validation Time Stamp: Sep 17, 2020 8:26 AM( 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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Permit # **864665**  
Approved Date: **Sep 17, 2020**

1. RRC Operator No. <b>665748</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>PIONEER NATURAL RES. USA, INC.</b>	3. Lease Name <b>UNIVERSITY W2-34D</b>	4. Well No. <b>4H</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **SPRABERRY (TREND AREA) (Field # 85279200, RRC District 7C)**

6. Section <b>3</b>	7. Block	8. Survey <b>HERRIN, M</b>	9. Abstract <b>201</b>	10. County of BHL <b>REAGAN</b>
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11. Terminus Lease Line Perpendiculars <b>100</b> ft. from the <b>N</b> line. and <b>1841</b> ft. from the <b>W</b> line
12. Terminus Survey Line Perpendiculars <b>100</b> ft. from the <b>N</b> line. and <b>1841</b> ft. from the <b>W</b> line
13. Penetration Point Lease Line Perpendiculars <b>2366</b> ft. from the <b>S</b> line. and <b>780</b> ft. from the <b>W</b> line

Permit Status: **Approved**

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**RAILROAD COMMISSION OF TEXAS  
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**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**

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**W-1 Comments**

Permit # 864665  
Approved Date: Sep 17, 2020

[ Aug 5, 2020 11:52 AM]: Commission Staff expresses no opinion as to whether a 100% ownership interest in each of the leases alone or in combination with a "production sharing agreement" confers the right to drill across lease/unit lines or whether a pooling agreement is also required. However, until that issue is directly addressed and ruled upon by a Texas court of competent jurisdiction it appears that a 100% interest in each of the leases and a production sharing agreement constitute a sufficient colorable claim to the right to drill a horizontal well as proposed to authorize the removal of the regulatory bar and the issuance of a drilling permit by the Commission, assuming the proposed well is in compliance with all other relevant Commission requirements.

Issuance of the permit is not an endorsement or approval of the applicant's stated method of allocating production proceeds among component leases or units. All production must be reported to the Commission as production from the lease or pooled unit on which the wellhead is located and reported production volume must be determined by actual measurement of hydrocarbon volumes prior to leaving that tract and may not be based on allocation or estimation. Payment of royalties is a contractual matter between the lessor and lessee. Interpreting the leases and determining whether the proposed proceeds allocation comports with the relevant leases is not a matter within Commission jurisdiction but a matter for the parties to the lease and, if necessary, a Texas court of competent jurisdiction.

The foregoing statements are not, and should not be construed as, a final opinion or decision of the Railroad Commission.; [RRC STAFF Sep 11, 2020 8:26 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Sep 17, 2020 6:54 AM]: Problems identified with this permit are resolved.





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

**REAGAN (383) County**

Formation	Remarks	Geological Order	Effective Date
GRAYBURG		1	12/17/2013
QUEEN		2	12/17/2013
SAN ANDRES	saltwater flow, possibly heavy	3	12/17/2013
CLEARFORK		4	12/17/2013
SPRABERRY		5	12/17/2013
STRAWN		6	12/17/2013
FUSSELMAN		7	12/17/2013
ELLENBURGER		8	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. The listing order of the Formation information reflects the general stratigraphic order and relative geologic age. 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:** 05 September 2019**GAU Number:** 252416

**Attention:** PIONEER NATURAL RES. USA,  
ATTN WELDON PIERSON  
IRVING, TX 75039

**API Number:**  
**County:** REAGAN  
**Lease Name:** UNIVERSITY E2-34A

**Operator No.:** 665748

**Lease Number:**  
**Well Number:** 101H  
**Total Vertical Depth:** 10141  
**Latitude:** 31.296100  
**Longitude:** -101.707349  
**Datum:** NAD27

**Purpose:** New Production Well**Location:** Survey-University Lands; Abstract-201; Block-2; Section-34

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

The base of usable-quality water-bearing strata is estimated to occur at a depth of 475 feet at the site of the referenced well.

This recommendation is applicable for all wells drilled in this Survey-University Lands; Abstract-201; Block-2; Section-34.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

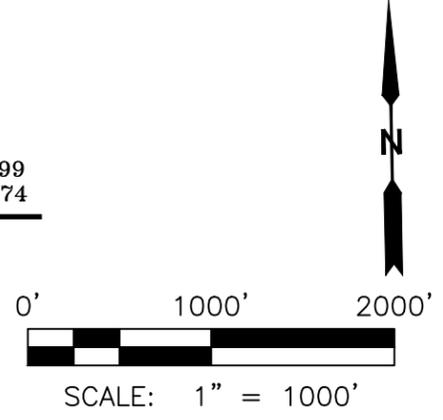
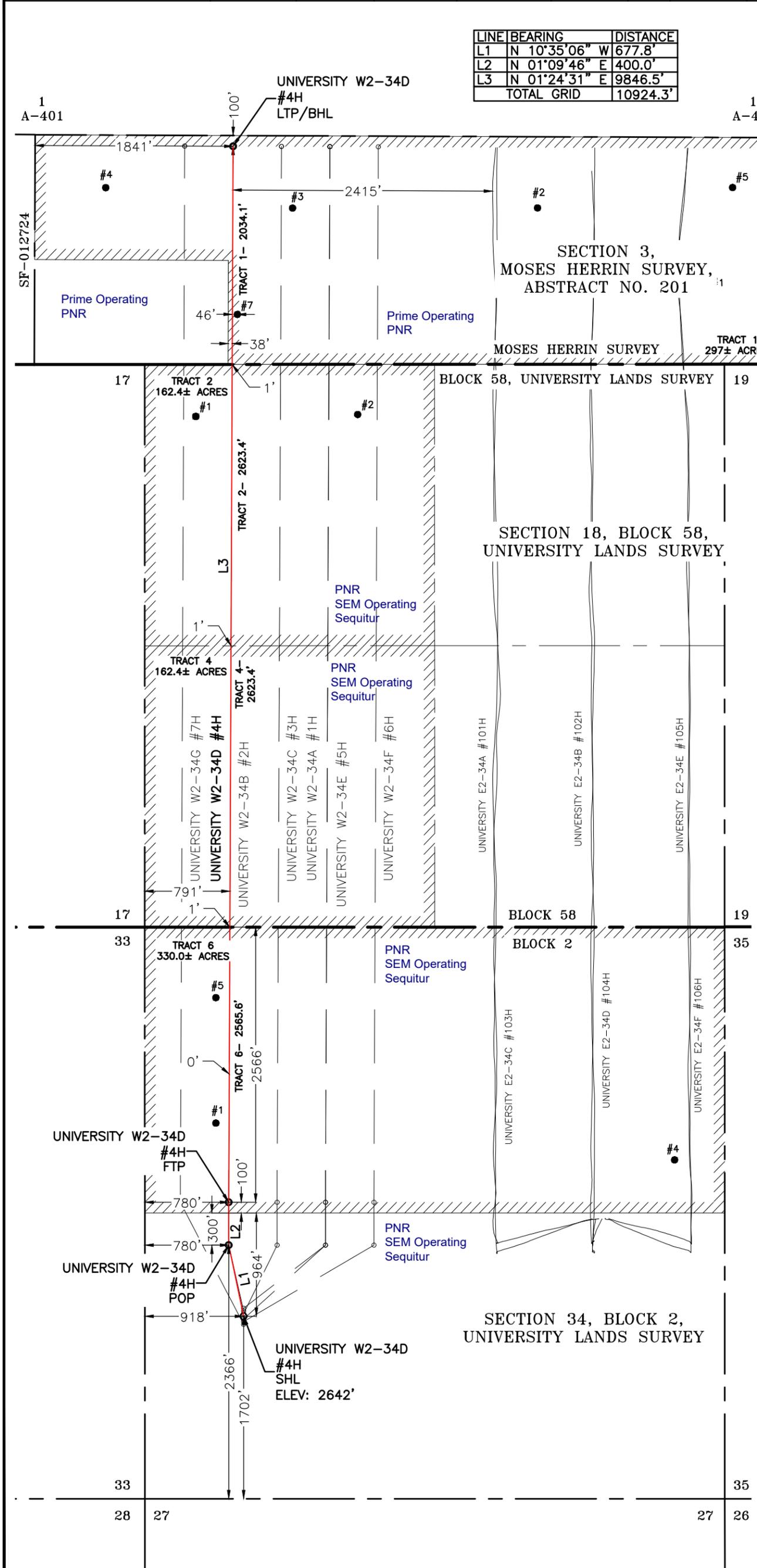
This determination is based on information provided when the application was submitted on 09/03/2019. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

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

UNIVERSITY W2-34D #4H	NORTHING (NAD 27)	EASTING (NAD 27)	LATITUDE (NAD 27)	LONGITUDE (NAD 27)	SECTION LINE		SECTION LINE		LEASE LINE		LEASE LINE		SECTION
					FOOTAGE	N/S	FOOTAGE	E/W	FOOTAGE	N/S	FOOTAGE	E/W	
SURFACE HOLE LOCATION (SHL)	594410.5	1567598.8	31.293672°	-101.717749°	1702'	S	918'	W	964'	N	918'	W	34
POINT OF PENETRATION (POP)	595076.7	1567474.3	31.295499°	-101.718174°	2366'	S	780'	W	300'	N	780'	W	34
FIRST TAKE POINT (FTP)	595476.6	1567482.4	31.296599°	-101.718164°	2566'	N	780'	W	100'	S	780'	W	34
LAST TAKE POINT/ BOTTOM HOLE LOCATION (LTP/BHL)	605320.1	1567724.5	31.323669°	-101.717781°	100'	N	1841'	W	100'	N	1841'	W	3

LINE	BEARING	DISTANCE
L1	N 10°35'06" W	677.8'
L2	N 01°09'46" E	400.0'
L3	N 01°24'31" E	9846.5'
TOTAL GRID		10924.3'



**NOTE:** WELL IS LOCATED APPROXIMATELY 11.9 MILES SOUTHWEST OF STILES, REAGAN COUNTY, TEXAS

**HALFF**  
 3300 NORTH A STREET, BUILDING 2, SUITE 120  
 MIDLAND, TX 79705-5471  
 TEL (432) 253-3255  
 TBPELS SURVEYING FIRM #10193998  
 DATE: 6/30/2020  
 BY: KEDRYN GORDON  
 REV: KEDRYN GORDON 8/10/2020  
 AVO: 39678.377

**LEGEND**

	SECTION LINE
	BLOCK/TOWNSHIP/SURVEY LINE
	LEASE LINE
	SUBJECT LATERAL
	AS-DRILLED LATERAL
	PERMITTED LATERAL
	PROPOSED LATERAL
	PROPOSED WELL
	EXISTING WELL

**NOTES:**

- THE BASIS OF BEARING OF THE SURVEY IS THE TEXAS COORDINATE SYSTEM, NORTH AMERICAN DATUM 1927 (NAD 27), CENTRAL ZONE (4203).
- ALL TEXAS STATE PLANE COORDINATES AND GEOGRAPHIC COORDINATES SHOWN HEREON ARE NAD 27 GRID COORDINATES AS COMPUTED BY CORPSCON VERSION 6.0.1. ALL GEOGRAPHIC COORDINATES SHOWN HEREON WERE CONVERTED USING CORPSCON VERSION 6.0.1. UNLESS OTHERWISE NOTED, ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND THEY CAN BE CONVERTED TO SURFACE WHEN MULTIPLIED WITH A "SURFACE ADJUSTMENT FACTOR" OF 1.000188348, AS CALCULATED BY CORPSCON.
- ELEVATIONS SHOWN HEREON ARE NAVD88 AS DERIVED BY GPS.
- THIS EXHIBIT IS FOR TEXAS RAILROAD COMMISSION WELL PERMITTING PURPOSES ONLY. BOUNDARY LINES AND ACREAGE SHOWN HEREON REFLECT THE SURVEYORS PROFESSIONAL OPINION OF MINERAL RIGHTS AS DETERMINED FROM CLIENT-PROVIDED OIL AND GAS MINERAL LEASE DOCUMENTATION. THE INFORMATION DEPICTED HEREON SHALL NOT BE USED IN THE CONVEYANCE OF FEE TITLE TO REAL PROPERTY.
- ALL MEASUREMENTS TO LEASE, UNIT, AND SURVEY LINES ARE PERPENDICULAR TO SAID LINES.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.

**PIONEER NATURAL RESOURCES USA, INC. PERMIT PLAT**

**UNIVERSITY W2-34D #4H**

TRACT 6 - 330.0± ACRES  
 TRACT 4 - 162.4± ACRES  
 TRACT 2 - 162.4± ACRES  
 TRACT 1 - 297± ACRES

**TOTAL TRACT: 951.8± ACRES (SURFACE AREA)**

**LOCATED IN:**  
 SECTION 34, BLOCK 2,  
 UNIVERSITY LANDS SURVEY,  
 SECTION 18, BLOCK 58,  
 UNIVERSITY LANDS SURVEY,  
 &  
 SECTION 3,  
 MOSES HERRIN SURVEY, ABSTRACT NO. 201,  
 REAGAN COUNTY, TEXAS