



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 05/24/2021
Tracking No.: 248979

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION

Table with Operator, PIONEER NATURAL RES. USA, INC., Operator 665748, and AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702-0000.

WELL INFORMATION

Table with well details: API 42-383-40906, Well No.: 4H, Lease UNIVERSITY W2-34D, RRC Lease 21291, Location Section: 34, Block: 2, Survey: UL, Abstract: U70, County: REAGAN, RRC District 7C, Field SPRABERRY (TREND AREA), Field No.: 85279200, Latitude, Longitude, and direction from STILES.

FILING INFORMATION

Table with filing details: Purpose of Well Record Only, Type of New Well, Well Type: Shut-In Producer, Completion or Recompletion 11/20/2020, Type of Permit, Date 09/17/2020, Permit No. 864665, Rule 37 Exception, Fluid Injection, O&G Waste Disposal, Other.

COMPLETION INFORMATION

Table with completion details: Spud 11/19/2020, Date of first production after rig 11/20/2020, Date plug back, deepening, drilling operation 11/19/2020, Date plug back, deepening, recompletion, drilling operation 11/20/2020, Number of producing wells on this lease this field (reservoir) including this 0, Distance to nearest well in lease & reservoir 0.0, Total number of acres in 951.80, Elevation 2670 RKB, Total depth TVD 1104, Total depth MD 1104, Plug back depth TVD, Plug back depth MD, Was directional survey made other inclination (Form W- Yes, Rotation time within surface casing Is Cementing Affidavit (Form W-15) Yes, Recompletion or No, Multiple No, Type(s) of electric or other log(s) None, Location of well, relative to nearest lease of lease on which this well is 918.0 Feet from the West Line and 1702.0 Feet from the South Line of the UNIVERSITY W2-34D Lease. Off Lease : Yes

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

Table with columns: Field & Reservoir, Gas ID or Oil Lease, Well No., Prior Service Type. W2: N/A

PACKET: N/A

**FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:**

<b>GAU Groundwater Protection Determination</b>	<b>Depth</b>	475.0	<b>Date</b>	09/05/2019
<b>SWR 13 Exception</b>	<b>Depth</b>	1140.0		

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

<b>Date of</b>		<b>Production</b>
<b>Number of hours</b>	24	<b>Choke</b>
<b>Was swab used during this</b>	No	<b>Oil produced prior to</b>
<b>PRODUCTION DURING TEST PERIOD:</b>		
<b>Oil</b>		<b>Gas</b>
<b>Gas - Oil</b>	0	<b>Flowing Tubing</b>
<b>Water</b>		
<b>CALCULATED 24-HOUR RATE</b>		
<b>Oil</b>		<b>Gas</b>
<b>Oil Gravity - API - 60.:</b>		<b>Casing</b>
<b>Water</b>		

**CASING RECORD**

<u>Ro</u>	<u>Type of Casing</u>	<u>Casing Size (in.)</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Multi - Stage Tool</u>	<u>Multi - Stage Shoe</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
1	Surface	13 3/8	17 1/2	1084			C	1100	1891.0	0	Circulated to Surface

**LINER RECORD**

<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

**TUBING RECORD**

<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
N/A				/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
N/A		L	

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

<b>Was hydraulic fracturing treatment</b>	No		
<b>Is well equipped with a downhole sleeve?</b>	No		
<b>Production casing test pressure (PSIG) during hydraulic fracturing</b>	<b>Actual maximum pressure (PSIG) during fracturin</b>		
<b>Has the hydraulic fracturing fluid disclosure been</b>	No		
<b>Ro</b>	<b>Type of Operation</b>	<b>Amount and Kind of Material Used</b>	<b>Depth Interval (ft.)</b>
N/A			

**FORMATION RECORD**

<u>Formations</u>	<u>Encountere</u>	<u>Depth TVD</u>	<u>Depth MD</u>	<u>Is formation</u>	<u>Remarks</u>
GRAYBURG	No			No	BELOW TVD
QUEEN	No			No	BELOW TVD
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	No			No	BELOW TVD
CLEARFORK	No			No	BELOW TVD
SPRABERRY	No			No	BELOW TVD
STRAWN	No			No	BELOW TVD
FUSSELMAN	No			No	BELOW TVD
ELLENBURGER	No			No	BELOW TVD

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm No

Is the completion being downhole commingled No

**REMARKS**

WELL DRILLED ONLY TO SURFACE. PLAT, P16, LOG TO BE ATTACHED WITH IP SUBMITTAL.

**RRC REMARKS**

**PUBLIC COMMENTS:**

**CASING RECORD :**

**TUBING RECORD:**

WAITING ON FRAC

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

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

**POTENTIAL TEST DATA:**

**OPERATOR'S CERTIFICATION**

<b>Printed</b>	DAVID VINCENTI	<b>Title:</b>	Regulatory Specialist
<b>Telephone</b>	(972) 969-3935	<b>Date</b>	04/26/2021

## 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



**RAILROAD COMMISSION OF TEXAS**

Form W-

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

**CEMENTING REPORT**

**Operator Information**

Operator Name: PIONEER NATURAL RES. USA, INC.      Cementer Name: PERMIAN 5 ENERGY SERVICES,L.L.C.

Operator P-5 No: 665748      Cementer P-5 No: 855743  
Address: ATTN WELDON PIERSON 777 HIDDEN RIDGE      Address: PO BOX 52672 MIDLAND TX 79710  
IRVING TX 75038      Date: 11/23/2020  
Date: 04/21/2021

**Well Information**

District No: 7C      County: REAGAN  
Well No: 4H      API No: 38340906      Drilling Permit No: 864665  
Lease Name: UNIVERSITY W2-34D      Field Name: SPRABERRY (TREND AREA)

Lease No: N/A      Field No: 85279200

**Casing Cementing Data**

Type of casing: Surface      Cementing Date : 11/20/2020  
Drilled hole size (in.): 17 1/2  
Size of casing in O.D.(in): 13 3/8      Depth of drilled hole (ft.): 1104  
Hrs. waiting on cement before drill-out: 12      No. of centralizers used : 8  
Est. % wash-out or hole enlargement: 20      Top of liner (ft.): N/A  
Calculated top of cement (ft.): 0      Setting depth liner (ft.) : N/A  
Was cement circulated to ground surface (or bottom of cellar)      Setting depth shoe (ft): 1084  
outside casing? [Yes]      Casing weight (lbs/ft) and grade: 54.5 K55  
Multiple parallel strings: No      DV tool not opened: No

**Slurry**

Slurry # 1 \* No. of Sacks: 750 \* Class: C \* Additives: 4% GEL \* Volume (cu. ft.) 1425 \* Height (ft.) 2052  
Slurry # 2 \* No. of Sacks: 350 \* Class: C \* Additives: NEAT \* Volume (cu. ft.) 466 \* Height (ft.) 670

**Cementing to Squeeze, Plug Back or Plug and Abandon**

**Remarks**

Cementer Certification: 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.

Company Representative: MARTIN HIGAREDA      Representative's Title: OPERATIONS  
Phone Number: (432) 664-9221

Operator Certification: 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.

Operator Representative: David Vincenti      Representative's Title: Regulatory Specialist  
Phone Number: (972) 969-3935

WAYNE CHRISTIAN, CHAIRMAN  
CHRISTI CRADDICK, COMMISSIONER  
RYAN SITTON, COMMISSIONER



DANNY SORRELLS  
DIRECTOR, OIL AND GAS DIVISION

BILL SPRAGGINS  
DISTRICT DIRECTOR

## RAILROAD COMMISSION OF TEXAS OIL AND GAS

<b>OPERATOR</b>	PIONEER NATURAL RES. USA, INC.	<b>RE Lease:</b>	UNIVERSITY W2-34D		
<b>Address1:</b>	ATTN WELDON PIERSON	<b>Well No:</b>	4H		
<b>Address2:</b>	777 HIDDEN RIDGE	<b>Sec:</b>	34	<b>Block</b>	2
<b>City:</b>	IRVING	<b>County:</b>	REAGAN		
<b>State:</b>	TX	<b>Survey Name:</b>	UL		

**SWR13EX Application** 88854 **Drilling Permit** 864665

### SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST

The Proposed Casing and Cementing Program submitted for **LEASE** UNIVERSITY W2-34D ;  
**WELL** 4H has been approved by the Railroad Commission of Texas District Office.

- A copy of this approved letter must be kept on location during all phases of drilling and/or plugging operations. Once approved, changes CANNOT be made to the Proposed Casing Program on the original application without additional approval from the Railroad Commission of Texas District Office.
- Any substantive modifications to the cement program require prior approval from the Railroad Commission of Texas District Office, and may require re-submission of the SWR 13 (Statewide Rule 13) Alternate Surface Casing Application. Contact the Railroad Commission of Texas District Office for more information.
- The tail slurry must be sufficient to fill the Zone of Critical Cement as described in Statewide Rule 13(b)(1)(H)(i). In addition, all cement slurries must be mixed on location as described in Application for Alternate Surface Casing Program.
- The casing and cement program shall adhere to the following specifications:  
Set 1140 feet of surface casing and circulate cement from the shoe to the ground surface.

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(b)(1)(H)(iii) OR AS REQUIRED BY THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE.

You must comply with all other provisions of SWR 13 (Statewide Rule 13) and a representative of the cementing company who performs the cementing job for the protection of usable quality water strata must sign the Form W-15 attesting to the information regarding cementing operations performed; including circulation of cement. (Note: If surface casing is set below the approved depth, this can result in denial of future Statewide Rule 13(b)(1)(H)(i) requests.) A condition of the approved drilling permit requires notification to the Railroad Commission of Texas District Office eight (8) hours prior to the time casing is to be set/cemented in the well. If your exception request was submitted after the subject well has been drilled and completed, the operator may be referred for enforcement action.

This authorization shall expire within five (5) years from the date the Groundwater Protection Determination was issued, or at the expiration of the drilling permit (if the well is not spudded prior to expiration) for the referenced well, whichever occurs first. Furthermore, this authorization supersedes any prior authorizations issued for the referenced well.

This exception is based on information provided when the application was submitted 09/21/2020 .  
If any information has changed, you must contact the appropriate Railroad Commission of Texas District Office, and submit a new application if applicable. If you have questions, please contact the appropriate Oil and Gas District office.

RRC APPROVAL BY: Crystal Denson

DATE: 09/21/2020

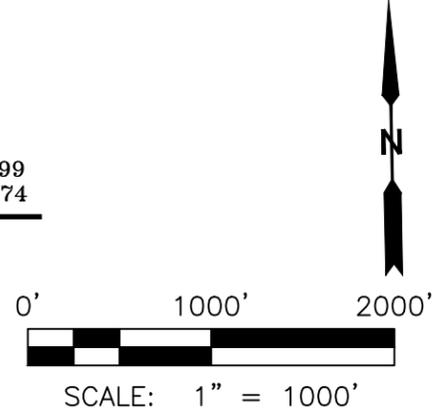
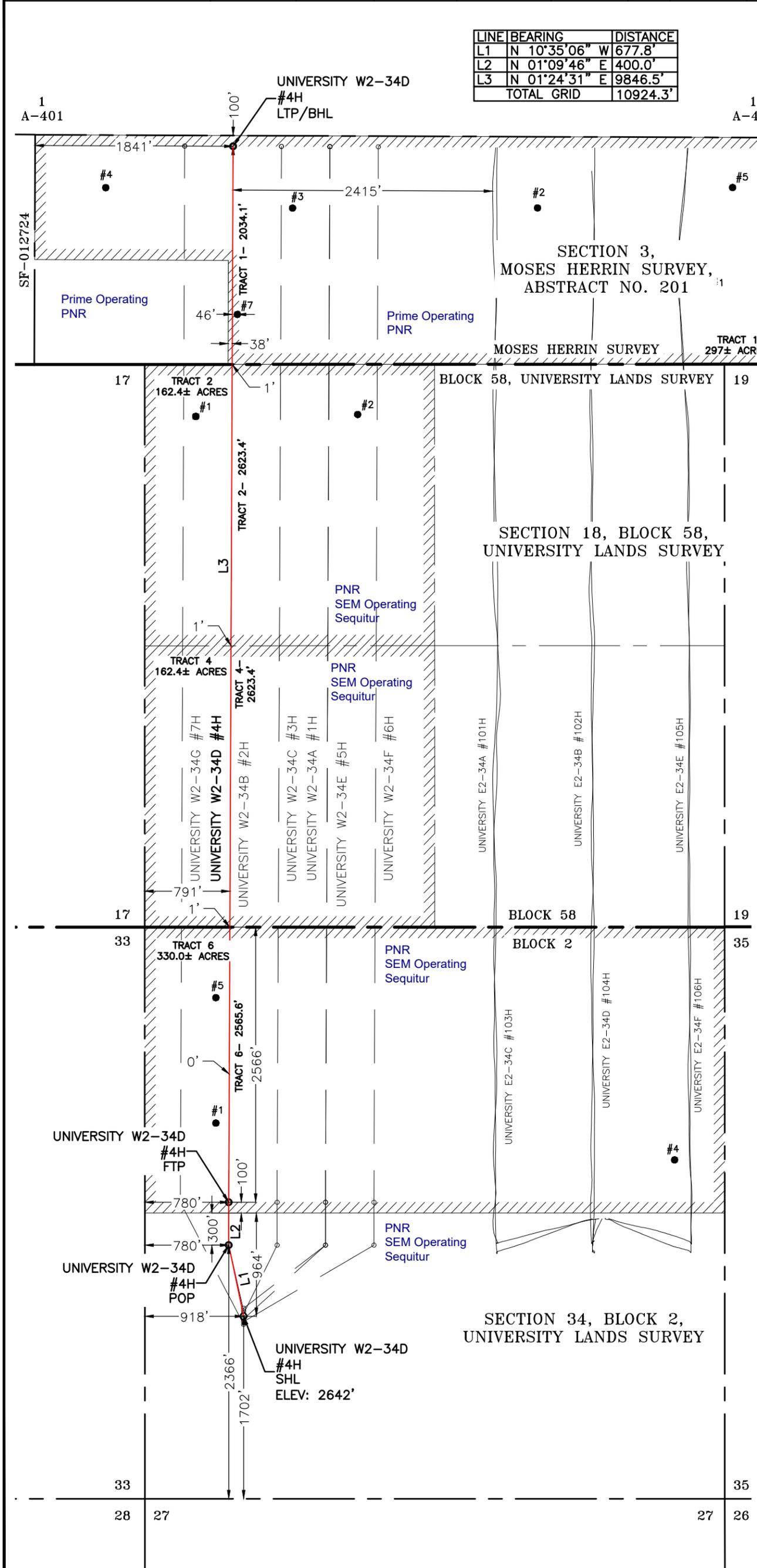
BILL SPRAGGINS

DISTRICT DIRECTOR



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