



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 03/21/2023
Tracking No.: 287179

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION			
Operator	PIONEER NATURAL RES. USA, INC.	Operator	665748
Operator	AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702-0000		

WELL INFORMATION			
API	42-003-48666	County:	ANDREWS
Well No.:	104H	RRC District	08
Lease	UNIVERSITY 6-48D	Field	SPRABERRY (TREND AREA)
RRC Lease	58588	Field No.:	85280300
Location	Section: 48, Block: 6, Survey: UL, Abstract:		
Latitude		Longitud	
This well is 18 miles in a NE direction from ANDREWS, which is the nearest town in the			

FILING INFORMATION			
Purpose of	Well Record Only		
Type of	New Well		
Well Type:	Shut-In Producer	Completion or Recompletion	01/16/2023
Type of Permit	Date	Permit No.	
Permit to Drill, Plug Back, or Rule 37 Exception	08/05/2022	882701	
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	11/13/2022	Date of first production after rig	01/16/2023
Date plug back, deepening, drilling operation	11/13/2022	Date plug back, deepening, recompletion, drilling operation	01/16/2023
Number of producing wells on this lease this field (reservoir) including this	0	Distance to nearest well in lease & reservoir	495.0
Total number of acres in	1280.00	Elevation	2993 RKB
Total depth TVD	8970	Total depth MD	19510
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)	31.8 Yes
Recompletion or	No	Multiple	No
Type(s) of electric or other log(s)	Gamma Ray (MWD)		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	1821.0 Feet from the 518.0 Feet from the	Off Lease :	Yes
		West Line and South Line of the	
		UNIVERSITY 6-48D Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	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	1700.0	Date 08/27/2022
SWR 13 Exception	Depth	2054.0	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of		Production	
Number of hours	24	Choke	
Was swab used during this	No	Oil produced prior to	
PRODUCTION DURING TEST PERIOD:			
Oil		Gas	
Gas - Oil	0	Flowing Tubing	
Water			
CALCULATED 24-HOUR RATE			
Oil		Gas	
Oil Gravity - API - 60.:		Casing	
Water			

CASING RECORD												
Ro	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC	
		Size (in.)	Size	Depth	Stage	Tool	Stage	Shoe	Class	Amoun	Volume (cu.	Cement (ft.)
1	Surface	13 3/8	17 1/2	1995				C	2050	3582.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	6850				C	1730	4053.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 1/2	19490				C	2140	4116.0	4195	Calculation

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>
L			
N/A			

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment		No	
Is well equipped with a downhole sleeve?		No	
Production casing test pressure (PSIG) during hydraulic fracturing		Actual maximum pressure (PSIG) during fracturin	
Has the hydraulic fracturing fluid disclosure been		No	
<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

FORMATION RECORD					
Formations	Encountere	Depth TVD	Depth MD	Is formation	Remarks
YATES	Yes	3147.4	3152.0	Yes	
SEVEN RIVERS	Yes	3420.4	3425.0	Yes	
QUEEN	Yes	4096.3	4101.0	Yes	
GRAYBURG	Yes	4558.3	4563.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4735.3	4740.0	Yes	
HOLT	No			No	FORMATION DOES NOT EXIST IN THIS AREA
GLORIETA	No			No	FORMATION DOES NOT EXIST IN THIS AREA
CLEARFORK	Yes	6846.3	6851.0	Yes	
TUBB	No			No	FORMATION DOES NOT EXIST IN THIS AREA
PERMIAN DETRITAL	No			No	FORMATION DOES NOT EXIST IN THIS AREA
LEON	No			No	FORMATION DOES NOT EXIST IN THIS AREA
WICHITA ALBANY	No			No	FORMATION DOES NOT EXIST IN THIS AREA
SPRABERRY	Yes	8484.9	8493.0	Yes	
DEAN	No			No	WELL IS NOT DEEP ENOUGH
WOLFCAMP	No			No	WELL IS NOT DEEP ENOUGH
CANYON	No			No	WELL IS NOT DEEP ENOUGH
PENNSYLVANIAN	No			No	WELL IS NOT DEEP ENOUGH
STRAWN	No			No	WELL IS NOT DEEP ENOUGH
DEVONIAN	No			No	WELL IS NOT DEEP ENOUGH
SILURIAN	No			No	WELL IS NOT DEEP ENOUGH
FUSSELMAN	No			No	WELL IS NOT DEEP ENOUGH
MCKEE	No			No	WELL IS NOT DEEP ENOUGH
ELLENBURGER	No			No	WELL IS NOT DEEP ENOUGH
PRECAMBRIAN (UNDIFFERENTIATED)	No			No	WELL IS NOT DEEP ENOUGH
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
KOP ~ 8342 DIGITAL WELL LOG #48410 SUBMITTED 03/06/23 FINAL AS DRILLED PLAT AND P16 WILL BE SUBMITTED WITH IP W-2 SUBMITTAL

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2023-03-09 14:48:15.891] Unperfed WRO packet. EDL = 0 feet, max acres = 0	
CASING RECORD : PRODUCTION CASING SIZE CHANGES FROM 8 3/4 TO 8 1/2 @ 6918'	
TUBING RECORD: WELL IS NOT COMPLETED YET	
PRODUCING/INJECTION/DISPOSAL INTERVAL :	
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :	
POTENTIAL TEST DATA:	

OPERATOR'S CERTIFICATION			
Printed	Matthew Gower	Title:	Regulatory Specialist I
Telephone	(972) 969-4507	Date	03/09/2023



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: 11/18/2022
Date: 11/28/2022

Well Information

District No: 08 County: ANDREWS
Well No: 104H API No: 00348666 Drilling Permit No: 882701
Lease Name: UNIVERSITY 6-48D Field Name: SPRABERRY (TREND AREA)

Lease No: N/A Field No: 85280300

Casing Cementing Data

Type of casing: Surface Cementing Date : 11/14/2022
Drilled hole size (in.): 17 1/2
Size of casing in O.D.(in): 13 3/8 Depth of drilled hole (ft.): 2014
Hrs. waiting on cement before drill-out: 24 No. of centralizers used : 17
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): 1995
outside casing? [Yes] Casing weight (lbs/ft) and grade: 54.5 J55
Multiple parallel strings: No DV tool not opened: No

Slurry

Slurry # 1 * No. of Sacks: 1500 * Class: C * Additives: 4% GEL * Volume (cu. ft.) 2850 * Height (ft.) 3479
Slurry # 2 * No. of Sacks: 550 * Class: C * Additives: NEAT * Volume (cu. ft.) 732 * Height (ft.) 991

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: GEORGE HUIZAR 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: Laura Wallace Representative's Title: REGULATORY ADVISOR
Phone Number: (972) 969-1742



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CEMENTING REPORT

Operator Information

Operator Name: PIONEER NATURAL RES. USA, INC.	Cementer Name: HALLIBURTON ENERGY SERVICES, INC
Operator P-5 No: 665748	Cementer P-5 No: 347151
Address: ATTN WELDON PIERSON 777 HIDDEN RIDGE IRVING TX 75038	Address: ATTN REAL ESTATE SERVICES 3000 N SAM HOUSTON PKWY E HOUSTON TX 77032
Date: 02/27/2023	Date: 12/21/2022

Well Information

District No: 08	County: ANDREWS
Well No: 104H	API No: 00348666 Drilling Permit No: 882701
Lease Name: UNIVERSITY 6-48D	Field Name: SPRABERRY (TREND AREA)
Lease No: N/A	Field No: 85280300

Casing Cementing Data

Type of casing: Intermediate	Cementing Date : 12/20/2022
Drilled hole size (in.): 12 1/4	
Size of casing in O.D.(in): 9 5/8	Depth of drilled hole (ft.): 6864
Hrs. waiting on cement before drill-out: 12	No. of centralizers used : 38
	Top of liner (ft.): N/A
Est. % wash-out or hole enlargement: 20	Setting depth liner (ft.) : N/A
Calculated top of cement (ft.): 0	Setting depth shoe (ft): 6850
Was cement circulated to ground surface (or bottom of cellar) outside casing? [Yes]	Casing weight (lbs/ft) and grade: 40 L80-IC
Multiple parallel strings: No	DV tool not opened: No

Slurry

Slurry # 1 * No. of Sacks: 1450 * Class: neocem * Additives: poly-flake kolseal * Volume (cu. ft.) 3683 * Height (ft.) 5797.4
Slurry # 2 * No. of Sacks: 215 * Class: halcem c * Additives: hr-800 * Volume (cu. ft.) 288.1 * Height (ft.) 932
Slurry # 3 * No. of Sacks: 65 * Class: halcem c * Additives: hr-800 halad r-344 * Volume (cu. ft.) 81.9 * Height (ft.) 125

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: Gerardo Hernandez Trevizo	Representative's Title: Service Supervisor II
Phone Number: (575) 308-1954	

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: Matt Gower	Representative's Title: Regulatory Specialist
Phone Number: (972) 969-4507	



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P.O. Box 12967
Austin, Texas 78701-2967
CEMENTING REPORT

Operator Information

Operator Name: PIONEER NATURAL RES. USA, INC. Cementer Name: HALLIBURTON ENERGY SERVICES, INC

Operator P-5 No: 665748 Cementer P-5 No: 347151
Address: ATTN WELDON PIERSON 777 HIDDEN RIDGE Address: ATTN REAL ESTATE SERVICES 3000 N SAM
IRVING TX 75038 HOUSTON PKWY E HOUSTON TX 77032
Date: 03/03/2023 Date: 03/02/2023

Well Information

District No: 08 County: MIDLAND
Well No: 104H API No: 00348666 Drilling Permit No: 882701
Lease Name: UNIVERSITY 6-48D Field Name: SPRABERRY (TREND AREA)

Lease No: N/A Field No: 85280300

Casing Cementing Data

Type of casing: Production Cementing Date : 01/16/2023
Drilled hole size (in.): 8 1/2
Size of casing in O.D.(in): 5 1/2 Depth of drilled hole (ft.): 19510
Hrs. waiting on cement before drill-out: 12 No. of centralizers used : 75
Est. % wash-out or hole enlargement: 20 Top of liner (ft.): N/A
Calculated top of cement (ft.): 4195 Setting depth liner (ft.) : N/A
Was cement circulated to ground surface (or bottom of cellar) Setting depth shoe (ft): 19490
outside casing? [Yes] Casing weight (lbs/ft) and grade: P110-IC
Multiple parallel strings: No DV tool not opened: No

Slurry

Slurry # 1 * No. of Sacks: 325 * Class: C * Additives: NA * Volume (cu. ft.) 1049 * Height (ft.) 6177
Slurry # 2 * No. of Sacks: 1815 * Class: C * Additives: NA * Volume (cu. ft.) 3067 * Height (ft.) 13308

Cementing to Squeeze, Plug Back or Plug and Abandon

Remarks

- 20 bbl cement to surface

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: Ryan Wilcoxson Representative's Title: Engineer
Phone Number: (254) 498-2692

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: Matt Gower Representative's Title: Regulatory Specialist
Phone Number: (972) 969-4507

WAYNE CHRISTIAN, CHAIRMAN
CHRISTI CRADDICK, COMMISSIONER
JIM WRIGHT, COMMISSIONER



DANNY SORRELLS
DIRECTOR, OIL AND GAS DIVISION

JEFFERY MORGAN
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

OPERATOR Name:	PIONEER NATURAL RES. USA, INC.	RE: Lease:	UNIVERSITY 6-48D
Address1:	ATTN WELDON PIERSON	Well No:	104H
Address2:	777 HIDDEN RIDGE	Sec:	48
City:	IRVING	Block:	6
State:	TX	County:	ANDREWS
		Survey Name:	UL

SWR13EX Application Number: 118289 **Drilling Permit No:** 882701

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for **LEASE** UNIVERSITY 6-48D ;
WELL 104H has been approved by the Railroad Commission of Texas District Office.

- a. 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.
- b. 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.
- c. 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.
- d. The casing and cement program shall adhere to the following specifications:
Set 2054 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 08/30/2022 .
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: Erik Hanson

DATE: 09/02/2022

JEFFERY MORGAN
DISTRICT DIRECTOR

Tracking No.: 287179

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: PIONEER NATURAL RES. USA, INC.District
No. 08Completion
Date: 01/16/2023Field
Name SPRABERRY (TREND AREA)Drilling Permit
No. 882701Lease
Name UNIVERSITY 6-48DLease/ID
No. 58588Well
No. 104HCounty
ANDREWSAPI
No. 42- 003-48666

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). _____

Matthew Gower

Signature

PIONEER NATURAL RES. USA, INC.

Name (print)

Regulatory Specialist I

Title

(972) 969-4507

Phone

03/06/2023

Date

-FOR RAILROAD COMMISSION USE ONLY-

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.: 287179

1. Field name exactly as shown on proration schedule SPRABERRY (TREND AREA)		2. Lease name as shown on proration schedule UNIVERSITY 6-48D					
3. Current operator name exactly as shown on P-5 Organization Report PIONEER NATURAL RES. USA, INC.		4. Operator P-5 no. 665748	5. Oil Lse/Gas ID no 58588	6. County ANDREWS	7. RRC district 08		
8. Operator address including city, state, and zip code AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702		9. Well no(s) (see instruction E) 104H			11. Effective Date 01/16/2023		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from: _____ Docket #: _____ <input type="checkbox"/> lease name from: _____ <hr/> b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation <input type="checkbox"/> unitization <input type="checkbox"/> field transfer <input type="checkbox"/> 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	ENLINK GAS MARKETING, LP(252769)			0001	100.0	
X		ENLINK MIDSTREAM SERVICES, LLC(252772)				100.0	
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 PIPELINE L.P.(667884)						45.0	
PLAINS MARKETING, L.P.(667883)						45.0	
SENTINEL TRANSPORTATION, LLC(767500)						10.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>03/21/2023</u>							
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 _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ 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.							
PIONEER NATURAL RES. USA, INC. _____ Name (print) Regulatory Specialist I _____ Title matthew.gower@pxd.com _____ E-mail Address (optional)				Matthew Gower _____ Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) _____ Date 03/06/2023 _____ Phone with area code _____(972) 969-4507			

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 27 August 2022**GAU Number:** 353936**Attention:** PIONEER NATURAL RES. USA,
ATTN WELDON PIERSON
IRVING, TX 75038**API Number:** 00348663
County: ANDREWS
Lease Name: UNIVERSITY 6-48A**Operator No.:** 665748**Lease Number:**
Well Number: 101H
Total Vertical 11172
Latitude: 32.427138
Longitude: -102.265754
Datum: NAD27**Purpose:** New Production Well**Location:** Survey-UL; Abstract-U186; Block-6; Section-48

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 that must be protected is estimated to occur at a depth of 1700 feet below the land surface. Moreover, the interval from the land surface to a depth of 300 feet and the fresh water contained in the zone from a depth of 1250 feet to 1700 feet must be isolated from water in overlying and underlying beds.

This recommendation is applicable for all wells drilled in this S/2 of the SW/4 of Section 48.

Note: Unless stated otherwise, this recommendation is intended to apply to all wells drilled within 200 feet of the subject well. 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 08/23/2022. 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

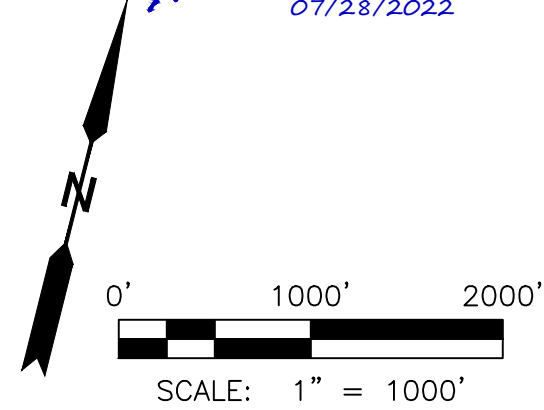
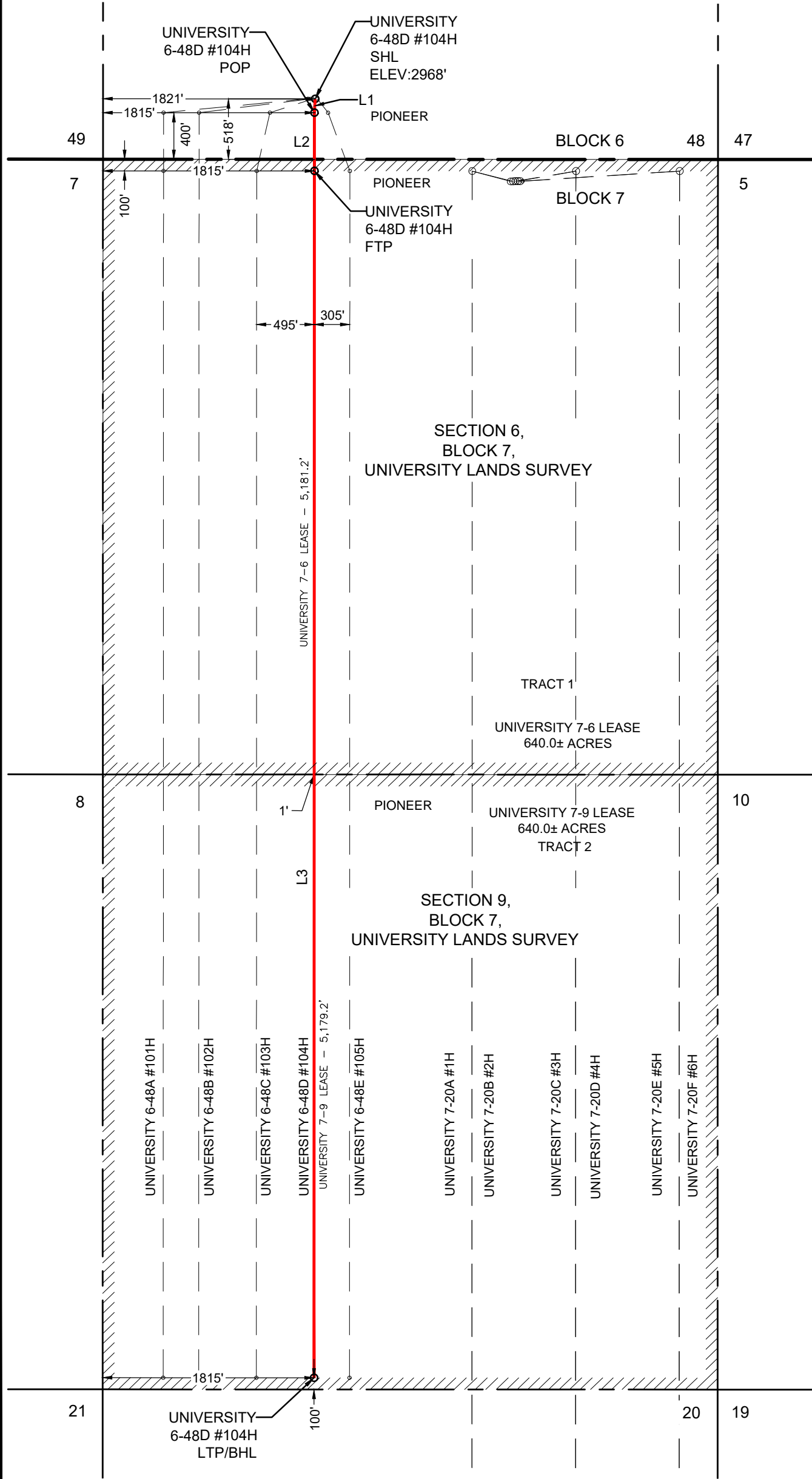
Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.
Rev. 02/2014

UNIVERSITY 6-48D #104H		EASTING (X) (NAD 27)	NORTHING (Y) (NAD 27)	LATITUDE (NAD 27)	LONGITUDE (NAD 27)	SECTION LINE		SECTION LINE		LEASE LINE		LEASE LINE		SECTION
						FOOTAGE	FNL/FSL	FOOTAGE	FEL\FWL	FOOTAGE	FNL/FSL	FOOTAGE	FEL\FWL	
SURFACE HOLE LOCATION (SHL)		1403673.5	1009251.5	32.427178	-102.265566	518'	FSL	1821'	FWL	518'	FSL	1821'	FWL	48
POINT OF PENETRATION (POP)		1403696.1	1009135.8	32.426861	-102.265486	400'	FSL	1815'	FWL	400'	FSL	1815'	FWL	48
FIRST TAKE POINT (FTP)		1403818.1	1008650.5	32.425534	-102.265063	100'	FNL	1815'	FWL	100'	FNL	1815'	FWL	6
LAST TAKE POINT/BOTTOM HOLE LOCATION (LTP/BHL)		1406343.4	998602.5	32.398045	-102.256320	100'	FSL	1815'	FWL	100'	FSL	1815'	FWL	9

LINE	BEARING	DISTANCE
L1	S 11°04'18" E	117.9'
L2	S 14°06'28" E	500.4'
L3	S 14°06'28" E	10,360.4'
TOTAL		10,978.7'



Hunter Wade Wills
07/28/2022



NOTE: WELL IS LOCATED APPROXIMATELY 18 MILES NORTHEAST OF ANDREWS, ANDREWS COUNTY, TEXAS

3300 NORTH A STREET, BUILDING 2, SUITE 120
MIDLAND, TX 79705-5471
TEL (432) 253-3255
TBPELS SURVEYING FIRM #10193998

DATE: 6/30/2022
BY: K. RIOS
AVO: 047474.066

LEGEND

- SECTION LINE
- BLOCK/TOWNSHIP 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 6-48D #104H

UNIVERSITY 7-6 - 640.0± ACRES
UNIVERSITY 7-9 - 640.0± ACRES
TOTAL TRACT: 1,280.0± ACRES
(SURFACE AREA)

LOCATED IN:
SECTION 48, BLOCK 6,
SECTION 6, BLOCK 7,
SECTION 9, BLOCK 7,
UNIVERSITY LANDS SURVEY,
ANDREWS COUNTY, TEXAS