



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 05/22/2017  
Tracking No.: 170650

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: PIONEER NATURAL RES. USA, INC. Operator No.: 665748  
Operator Address: AMBER MCFADDEN PO BOX 3178 MIDLAND, TX 79702-0000

WELL INFORMATION

API No.: 42-003-47346 County: ANDREWS  
Well No.: 38H RRC District No.: 08  
Lease Name: UNIVERSITY "7-43" Field Name: SPRABERRY (TREND AREA)  
RRC Lease No.: 40532 Field No.: 85280300  
Location: Section: 38, Block: 7, Survey: UL, Abstract: U213  
  
Latitude: Longitude:  
This well is located 17.2 miles in a EAST  
direction from ANDREWS,  
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential  
Type of completion: Other/Recompletion  
Well Type: Producing Completion or Recompletion Date: 09/30/2016  
  
Type of Permit Date Permit No.  
Permit to Drill, Plug Back, or Deepen 02/12/2016 813817  
Rule 37 Exception  
Fluid Injection Permit  
O&G Waste Disposal Permit  
Other:

COMPLETION INFORMATION

Spud date: 04/23/2016 Date of first production after rig released: 09/30/2016  
Date plug back, deepening, recompletion, or drilling operation commenced: 07/14/2016 Date plug back, deepening, recompletion, or drilling operation ended: 09/22/2016  
Number of producing wells on this lease in this field (reservoir) including this well: 28 Distance to nearest well in lease & reservoir (ft.): 779.0  
Total number of acres in lease: 6615.70 Elevation (ft.): 2983 RKB  
Total depth TVD (ft.): 9477 Total depth MD (ft.): 19795  
Plug back depth TVD (ft.): Plug back depth MD (ft.):  
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 40.8  
Is Cementing Affidavit (Form W-15) attached? Yes  
Recompletion or reclass? Yes Multiple completion? No  
Type(s) of electric or other log(s) run: Acceptable cased hole logs  
Electric Log Other Description:  
Location of well, relative to nearest lease boundaries Off Lease : No  
of lease on which this well is located: 5753.0 Feet from the North Line and  
4044.0 Feet from the East Line of the  
UNIVERSITY "7-43" Lease.

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

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

W2: N/A

PACKET:	N/A
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:	
GAU Groundwater Protection Determination	Depth (ft.): 1750.0      Date: 02/11/2016
SWR 13 Exception	Depth (ft.): 2000.0

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test: 10/22/2016	Production method: Gas Lift
Number of hours tested: 24	Choke size:
Was swab used during this test? No	Oil produced prior to test: 16990.00
PRODUCTION DURING TEST PERIOD:	
Oil (BBLs): 1204.00	Gas (MCF): 1535
Gas - Oil Ratio: 1274	Flowing Tubing Pressure:
Water (BBLs): 1599	
CALCULATED 24-HOUR RATE	
Oil (BBLs): 1204.0	Gas (MCF): 1535
Oil Gravity - API - 60.: 40.7	Casing Pressure:
Water (BBLs): 1599	

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	2010			CLASS C	1690	2848.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	6022			CLASS C	954	2036.0	3447	Calculation
3	Conventional Production	5 1/2	8 3/4	19776			CLASS H	2033	3532.1	5485	Cement Evaluation Log

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	9416	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 9802	19634.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?	Yes		
Is well equipped with a downhole actuation sleeve?	Yes	If yes, actuation pressure (PSIG):	9500.0
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:	9800	Actual maximum pressure (PSIG) during hydraulic fracturing:	8896
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?	Yes		
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SANTA ROSA	Yes	1441.0	1442.0	Yes	
YATES	Yes	3151.0	3152.0	No	SEE REMARK
SEVEN RIVERS	No			No	NOT GEOLOGICALLY PRESENT IN AREA
QUEEN	Yes	4088.0	4104.0	Yes	
GRAYBURG	Yes	4617.0	4646.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4755.0	4787.0	Yes	
HOLT	No			No	NOT GEOLOGICALLY PRESENT IN AREA
GLORIETA	No			No	NOT GEOLOGICALLY PRESENT IN AREA
TUBB	No			No	NOT GEOLOGICALLY PRESENT IN AREA
CLEARFORK	Yes	6743.0	6807.0	Yes	
PERMIAN DETRITAL	No			No	NOT GEOLOGICALLY PRESENT IN AREA
LEON	No			No	NOT GEOLOGICALLY PRESENT IN AREA
WICHITA ALBANY	No			No	NOT GEOLOGICALLY PRESENT IN AREA
SPRABERRY	Yes	8390.0	8478.0	Yes	
DEAN	No			No	BELOW TVD
WOLFCAMP	No			No	BELOW TVD
CANYON	No			No	BELOW TVD
PENNSYLVANIAN	No			No	BELOW TVD
MCKEE	No			No	BELOW TVD
STRAWN	No			No	BELOW TVD
FUSSELMAN	No			No	BELOW TVD
DEVONIAN	No			No	BELOW TVD
SILURIAN	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 (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No
REMARKS					
WE REQUEST A SWR-13 WAIVER FOR THE YATES FORMATION AS THERE ARE NO PRODUCING WELLS IN THAT FORMATION WITHIN 1 MILE OF THIS WELL. SEE ATTACHED MAP.					

RRC REMARKS	
<b>PUBLIC COMMENTS:</b>  [RRC Staff 2017-03-21 12:47:14.369] EDL=9832 feet, max acres=640, SPRABERRY (TREND AREA) oil well	
<b>CASING RECORD :</b>  PRODUCTION HOLE CROSSOVER FROM 8 3/4" TO 8 1/2" @ 10,100'. SURFACE CASING SETTING DEPTH OK PER ERIK HANSON.20% IS REFLECTED ON THE W-15 IN THE EST. % WASH-OUT OR HOLE ENLARGEMENT SECTION PER DISTRICT GUIDANCE. VOLUME AND HEIGHT VALUES ON THE W-15 ARE USING AN EXCESS CEMENT PUMPED OF 150%, INDICATING THE INCREASE IN ANNULAR OPEN HOLE VOLUME WHEN COMPARED TO GAUGE OPEN HOLE VOLUME.	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>  KOP ~ 8930'. LOG SUBMITTED TO RRC UNDER WELL RECORD TRACKING# 163533.	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> CASI RENFRO	<b>Title:</b> Regulatory Specialist II
<b>Telephone No.:</b> (972) 444-9001	<b>Date Certified:</b> 03/21/2017



# 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: Pioneer Natural Res USA, Inc.			Operator P-5 No.: 665748		
Cementer Name: Schlumberger			Cementer P-5 No.: 764900		

WELL INFORMATION					
District No.: 08		County: ANDREWS			
Well No.: 384		API No.: 4200347346		Drilling Permit No.: 813817	
Lease Name: University 7-43		Lease No.:		40932	
Field Name: Sprberry (Trend Area)		Field No.: 85280300			

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.): 2010'		Est. % wash-out or hole enlargement: 100%	
Size of casing in O.D. (in.): 13 3/8"		Casing weight (lbs/ft) and grade: 54.5 J55		No. of centralizers used: 11	
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.): 2010'		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12		Calculated top of cement (ft.): 0		Cementing date: 4/24/16	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1315	c/poz	remarks	2222	1600
2	375	c	remarks	626	400
3					
Total	1690			2848	2000

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
d013+d65+d020+d130

**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.

clint thompson FS

Schlumberger

clint thompson

Print name and title of cementer

Name and title of cementer's representative

Cementing Company

Signature

2106 North County Road

Midland, TX, 79705

(432) 687-7058

4/24/16

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.

Casi Renfro, Regulatory Specialist II

5205 N. O'Connor Blvd., Suite 200

Irving, TX 75039

972.969.5687

  
e

Signature

te, Zip Code

Tel. Area Code

Number

Date mo. day yr.

m 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/readtacSext.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/readtacSext.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/OV 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  
CEMENTING REPORT

Form W 15  
Rev. 08/2014

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

OPERATOR INFORMATION	
Operator Name: Pioneer Natural Resources	Operator P-S No.: 663774
Cementor Name: Schlumberger	Cementor P-S No.: 754300

WELL INFORMATION	
District No.: 9	County: Andrews
Well No.: 3381	API No.: 420543346
Lease Name: UNIVERSITY 7-43	Drilling Permit No.: 913917
Field Name: Sarsberry (Trend Area)	Lease No.: 40732
	Field No.: 95240300

I. CASING (CEMENTING DATA)	
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production	
Drilled hole size (in.): 21 1/4"	Depth of drilled hole (ft.): 6020'
Size of casing in O.D. (in.): 9 5/8"	Casing weight (lb/ft) and grade: 40 L80
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Setting depth shoe (ft.): 6022'
Setting depth liner (ft.):	
Mins. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 5947
Cementing date: 28-Apr-16	

Slurry No.	No. of Sacks	Class	Additives	Volume (cu ft.)	Height (ft.)
1	634	POB-C	Remarks	2630	2005
2	328	C	Remarks	426	528
3					
Total	964			2856	2575

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.):
Size of casing in O.D. (in.):	Casing weight (lb/ft) and grade:
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 (lb/ft) and grade:
Upper: Lower:	Upper: Lower:
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Setting depth tool (ft.):
Mins. waiting on cement before drill-out:	Calculated top of cement (ft.):
Cementing date:	

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/UV tool <input type="checkbox"/> Multiple parallel strings	
Drilled hole size (in.):	Depth of drilled hole (ft.):
Size of casing in O.D. (in.):	Casing weight (lb/ft) and grade:
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 (lb/ft) and grade:
Upper: Lower:	Upper: Lower:
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Setting depth tool (ft.):
Mins. waiting on cement before drill-out:	Calculated top of cement (ft.):
Cementing date:	

Slurry No.	No. of Sacks	Class	Additives	Volume (cu ft.)	Height (ft.)
1					
2					
3					
Total					



CEMENTING TO SQUEEZE, PLUG RATE 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.)							
Length of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tapered (ft.)							
Slurry weight (lb/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

**REMARKS**

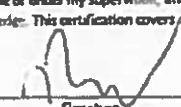
#1: 0.1 % D208 + 38 lb/sk D049 + 47 lb/sk D903 + 0.2 % D238 + 0.35 % D013 + 5 % D154 + 0.13 lb/sk D0130 + 1 % D079 + 5 lb/sk D042

#2: 94 lb/sk D983 + 0.02 gal/sk D047 + 0.2 % D880 + 0.3 % D065

#3:


#4:

**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.

<b>Abdoul Houssein, FSE</b> Name and title of cementer's representative	<b>Schlumberger</b> Cementing Company	 Signature
<b>2106 North Country Road</b> Address	<b>Midland TX 79705</b> City, State, Zip Code	<b>(432) 687-7058</b> Tel. Area Code Number
		<b>April 28, 2016</b> 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.

**Casi Renfro, Regulatory Specialist II**  
**5205 N. O'Connor Blvd., Suite 200**  
**Irving, TX 75039**  
**972.969.5687**

  
 Signature  
**7/15/16**  
 Date: mo. day yr

**ig Report**

Form W-15 is used for Cementing to Squeeze, Plug Rate, or Plug and Abandon. It is also used for Completion Report, and Log, Form W-1 (Old Well Potential). Completion Report, and Log, Form W-3 (Plugging Report), or Form W-4 (Application for Multiple Completion). Any data submitted is returned in a wellbore.

- What to file:** An operator should file the 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 Report, 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 removed 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.trec.state.tx.us/security/egps.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12567, Austin, Texas 78711-2567).
- Surface casing:** An operator must set and cement sufficient surface casing to prevent all uncontaminated water strata, as defined by the Groundwater Advisory Unit in Austin. Surface casing shall be used to seal the annular space outside the casing from the shoe to the ground surface or to the bottom of the collar. 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 19NR 14 (<http://info.nrc.state.tx.us/pubs/regs/regs.htm#Page%2044>) or 19NR 14a (<http://info.nrc.state.tx.us/pubs/regs/regs.htm#Page%2044a>) or 19NR 14b (<http://info.nrc.state.tx.us/pubs/regs/regs.htm#Page%2044b>). 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 logplot log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement used as B. Casing Cementing Data section by entering the type of casing and Multi-stage cement used. The operator must report the multi-stage cement used in B. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DN load.
- 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 reverse job exceeds three sluries, continue the list of sluries on 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

## CEMENTING REPORT

Form W-15

Rev 06/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name	Pioneer NATURAL RES. USA, INC		Operator P-5 No.	665748	
Cementer Name	Schlumberger		Cementer P-5 No.	754900	

WELL INFORMATION					
District No.	08		County	ANDREWS	
Well No.	38H		API No.	4200341346	
Lease Name	University 7-43		Drilling Permit No.	813817	
Field Name	Spraberry (TRENCH AREA)		Lease No.	46932	
			Field No.	85280300	

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 3/4" / 8 1/2"		Depth of drilled hole (ft.)	19795'	
Size of casing in O.D. (in.)	5 1/2"		Casing weight (lbs/ft) and grade	20 P1101C	
Was cement circulated to ground surface (or bottom of cellar) outside casing?			Setting depth shoe (ft.)	Top of liner (ft.)	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no for surface casing, explain in Remarks			19796'		
Hrs. waiting on cement before drill-out			Calculated top of cement (ft.)	Cementing date	
12			5483	9-Jun-16	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu ft.)	Height (ft.)
1	374	H	Remarks	927.5	3500
2	1659	H	Remarks	2604.6	10783
3					
Total	2033			3532.1	14283

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.)		
Size of casing in O.D. (in.)			Casing weight (lbs/ft) and grade		
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		
Upper: Lower:			Upper: Lower:		
Tapered string no. of centralizers used					
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.)		

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu ft.)	Height (ft.)
1					
2					
3					
Total					

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.)		
Size of casing in O.D. (in.)			Casing weight (lbs/ft) and grade		
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		
Upper: Lower:			Upper: Lower:		
Tapered string no. of centralizers used					
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.)		

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu ft.)	Height (ft.)
1					
2					
3					
Total					

A. 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.

B. 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).

C. 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 700 feet below the specified depth without prior approval from the Commission.

D. To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 34 ([http://info.sos.state.tx.us/public/react/cement/actPage751.cfm?app=9&p\\_dir=&p\\_vloc=&p\\_floc=&p\\_ploc=&p\\_rfp\\_tac=&i=16&p=1&ch=3&r=14](http://info.sos.state.tx.us/public/react/cement/actPage751.cfm?app=9&p_dir=&p_vloc=&p_floc=&p_ploc=&p_rfp_tac=&i=16&p=1&ch=3&r=14)). Cementing companies or well completion operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

E. 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.

F. Multi-stage cement: An operator must report the multi-stage cement shoe in the 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 the Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

G. 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.

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



## RAILROAD COMMISSION OF TEXAS

### OIL AND GAS DIVISION

**OPERATOR Name:** PIONEER NATURAL RES. USA, INC.

**RE: Lease:** UNIVERSITY 7-43

**Address1:** ATTN WELDON PIERSON

**Address2:** 5205 N O'CONNOR BLVD SUITE 200

**City:** IRVING

**State:** TX

**Well No:** 38H

**Sec:** 38 **Block:** 7

**County:** ANDREWS

**Survey Name:** UL

**SWR13EX Application Number:** 6593

**Drilling Permit No:** 813817

### SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UNIVERSITY 7-43 ;  
**WELL NUMBER:** 38H 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 2000 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 on 02/15/2016 .  
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: 02/22/2016

DISTRICT DIRECTOR

Tracking No.: 163533

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: PIONEER NATURAL RES. USA, INC.	District No. 08	Completion Date: 09/30/2016
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 813817	
Lease Name UNIVERSITY "7-43"	Lease/ID No. 40532	Well No. 38H
County ANDREWS	API No. 42- 003-47346	

## 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). \_\_\_\_\_

CASI RENFRO

Signature

PIONEER NATURAL RES. USA, INC.

Name (print)

Regulatory Specialist II

Title

(972) 444-9001

Phone

10/14/2016

Date

-FOR RAILROAD COMMISSION USE ONLY-



# Radial Cement Bond Gamma Ray Collar Locator Log

Company Well Field County State	Pioneer Natural Resources University 7-43 38H Spraberry (Trend Area) Andrews Texas	Country U.S.A.	Company Pioneer Natural Resources	
			Well University 7-43 38H	
			Field Spraberry (Trend Area)	
			County Andrews	
State Texas		Country U.S.A.		
Location:		API # : 42-003-47346		
SEC		TWP		
RGE		Other Services		
Permanent Datum		Ground Level		
Log Measured From		Elevation 2955'		
Drilling Measured From		K.B. 2984'		
		D.F. 2983'		
		G.L. 2955'		
Date		31-July-2016		
Run Number		ONE		
Depth Driller		19795'		
Depth Logger		9723'		
Bottom Logged Interval		9720'		
Top Log Interval		Surface		
Open Hole Size		8 3/4"		
Type Fluid		Water		
Density / Viscosity		N/A		
Max. Recorded Temp.		169°		
Estimated Cement Top		5485'		
Time Well Ready		ROA		
Time Logger on Bottom		17:30		
Equipment Number		W4883		
Location		Midland		
Recorded By		J. Slocum		
Witnessed By		Mr. Fabian Sotelo		
Borehole Record				
Run Number	Bit	From	To	
ONE				
TWO				
THREE				
FOUR				
Tubing Record				
Run Number	Size	Wgt/Ft	Top	
ONE	13 3/8"	54.5#	Surface	
TWO	9 5/8"	40#	Surface	
THREE	5 1/2"	20#	Surface	
FOUR				
Casing Record			Bottom	
Surface String			2010'	
Prot. String			6022'	
Production String			19795'	
Liner				
Marker Joints	8890' - 8910'	8662' - 8671'		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Radial Bond Log Correlated to Marker Joints 8661.5' - 8671.5' and 8890' - 8910' Using a +8' Correction.

No Logs Available For Correlation.

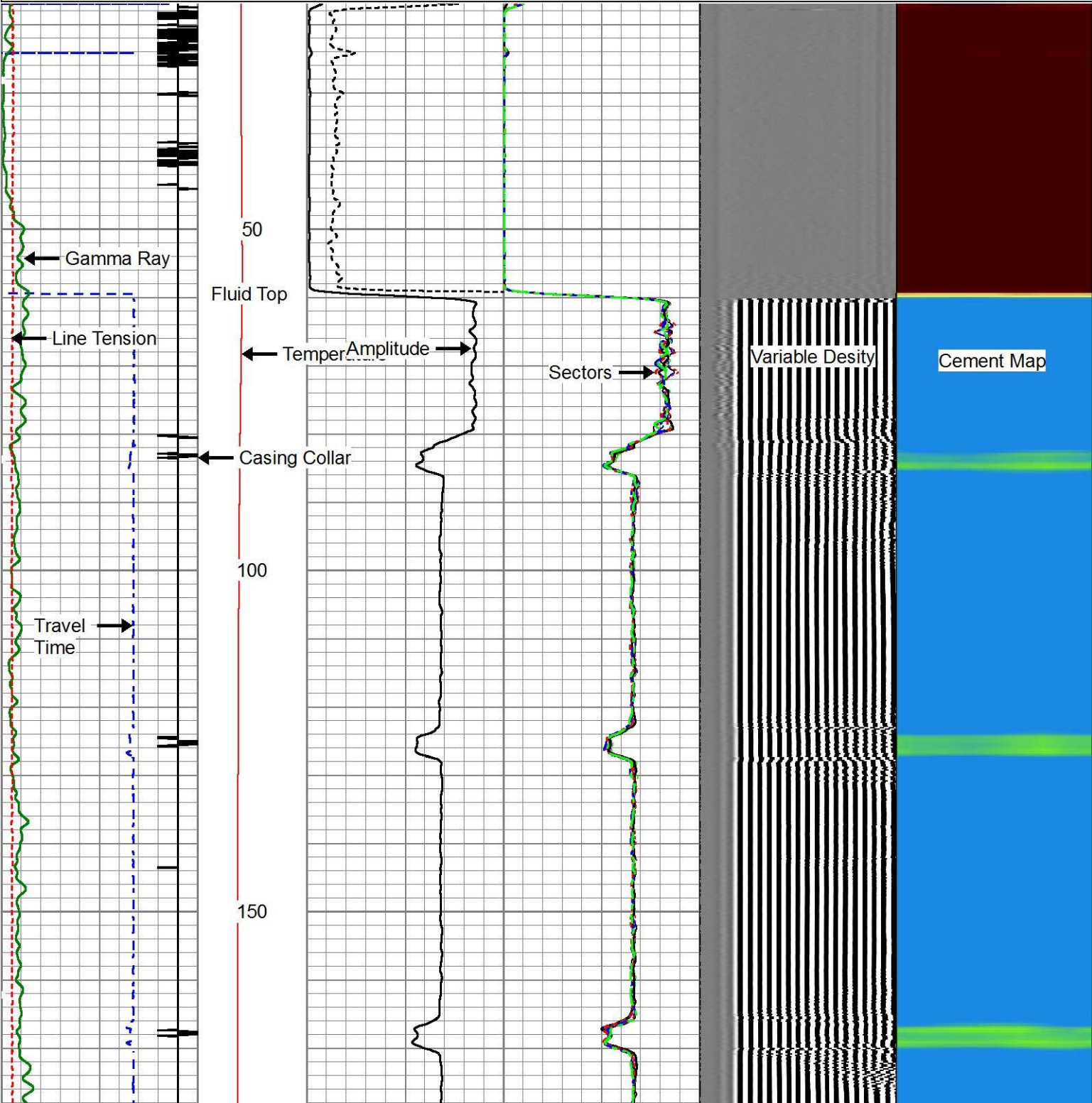
THANK YOU FOR CHOOSING DYNASTY WIRELINE SERVICES!



# MAIN PASS (0 PSI)



400	TT (usec)	200	TEMP	0	AMP (mV)	100	0	AMPS1	150	200	VDL	1200	1	Cement Map	8
-9	CCL	1	(degF)	0	AMPx10 (mV)	10	0	AMPS2	150				1		90
0	GR (GAPI)	150	0	200			0	AMPS3	150						
0	LTEN (lb)	5000					0	AMPS4	150						
							0	AMPS5	150						
							0	AMPS6	150						
							0	AMPS7	150						
							0	AMPS8	150						





RECEIVED  
RRC OF TEXAS

FEB 16 2016

O&G  
Midland

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

FORM H-9  
12/12/77

CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36

FILE WITH  
DISTRICT OFFICE  
IN TRIPLICATE

1. Operator PIONEER NATURAL RESOURCES USA INC.			2. Operator Number (See Instruction 13) 665748		3. RRC Dist. 08	
4. Street or P. O. Box No. 5205 N OCONNOR BLVD. #200. ATTN: H. BARCIA			5. City IRVING		6. State TX	
8. Name of Lease, Facility or Operation University 7-43 36H-38H			9. Field or Area Name SPRABERRY (TREND AREA)		7. Zip Code 75039	
11. General Operation Type - Circle One: A - Oil Field Production      B - Gas Field Production C - Pipeline or Gathering Sys.      D - Gasoline Plant <input checked="" type="radio"/> E - Drilling or Workover      F - Sweetening Unit G - Combination (explain)      H - Other (explain)			Other Explanation Drilling through known H2S zones			
12. RRC ID# of Operation(s) to be Covered by This Certificate			13. Hydrogen Sulfide Concentration 25,000 PPM		14. Maximum Escape Volume 20 MCF/Day	
Type ID Code (See Instruction 12)			15. 100 PPM Radius of Exposure (ROE) 65 Ft.		16. 500 PPM Radius of Exposure (ROE) 30 Ft.	
Indicate if Filing for Storage Facility Only YES      NO			17. Operation is Existing      New <input type="checkbox"/> <input checked="" type="checkbox"/>		18. Modification Resulting in Certificate Change Yes      No <input type="checkbox"/> <input checked="" type="checkbox"/>	
813815      5 <input checked="" type="checkbox"/>			19. Workover or Drilling Well with 100 PPM ROE Greater than 3000 feet on Rule 36 Certified Well/Lease		Yes      No <input type="checkbox"/> <input checked="" type="checkbox"/>	
813816      5 <input checked="" type="checkbox"/>			20. Previous Certificate Number if Available (For Amended Certificates)			
813817      5 <input checked="" type="checkbox"/>			21. The 100 PPM ROE includes any part of a public area except a public road		Yes      No <input type="checkbox"/> <input checked="" type="checkbox"/>	
			22. The 500 PPM ROE includes any part of a public road		Yes      No <input type="checkbox"/> <input checked="" type="checkbox"/>	
			23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14)		Yes      No <input type="checkbox"/> <input checked="" type="checkbox"/>	
			24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 4      21      2016 Mo      Day      Year 2801 Ft. from Surface			
25. Contingency Plan Location of Plan (See Instruction 15)			Has been prepared      Yes      No <input checked="" type="checkbox"/> <input type="checkbox"/>			
Drilling Contingency Plan for Drilling available at Field Office at 4815 E. Hwy 80, Midland, TX 79706						
26. Location of data used to prepare this certificate (See Instruction 15) PIONEER NATURAL RESOURCES USA INC 5205 N OCONNOR BLVD, SUITE 200 IRVING, TX 75039						
<p align="center"><b>CERTIFICATE</b></p> <p>I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.</p> <p><i>Ima Ruff</i>      Regulatory Specialist      972-969-3926      2/12/2016 Representative of Company      Title      Phone No.      Date</p>						

RAILROAD COMMISSION USE ONLY

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: *Tom Felt*

DATE: FEB 16 2016

REMARKS:

CERTIFICATION NUMBER: 089366



## RAILROAD COMMISSION OF TEXAS

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

P-16 Data Sheet

Page 1

Rev. 01/2016

## Acreage Designation

SECTION I. OPERATOR INFORMATION	
Operator Name: PIONEER NATURAL RES. USA, INC.	Operator P-5 No.: 665748
Operator Address: 5205 N. O'CONNOR BLVD., SUITE 200, IRVING, TEXAS 75039	

SECTION II. WELL INFORMATION		
District No.: 08	County: ANDREWS	<b>Purpose of Filing:</b> <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report
Well No.: 38H	API No.: 42-003-47346	
Total Lease Acres: 6615.7	Drilling Permit No.: 813817	
Lease Name: UNIVERSITY 7-43	Lease No.: 40532	
Field Name: SPRABERRY (TREND AREA)	Field No.: 85280300	

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							
RRC ID No. or Lease No.	Well No.	H -Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
45032	1	V	UNIVERSITY 7-43	42-003-41559	80		
45032	2	V	UNIVERSITY 7-43	42-003-43427	80		
45032	3	V	UNIVERSITY 7-43	42-003-43433	80		
45032	4	V	UNIVERSITY 7-43	42-003-43434	80		
45032	5	V	UNIVERSITY 7-43	42-003-43438	80		
45032	6	V	UNIVERSITY 7-43	42-003-44080	80		
45032	7	V	UNIVERSITY 7-43	42-003-44099	80		
45032	8	V	UNIVERSITY 7-43	42-003-41996	80		
45032	9	V	UNIVERSITY 7-43	42-003-40740	80		
45032	10	V	UNIVERSITY 7-43	42-003-41429	80		
45032	11	V	UNIVERSITY 7-43	42-003-42920	80		
45032	12	V	UNIVERSITY 7-43	42-003-43411	80		
45032	14	V	UNIVERSITY 7-43	42-003-41430	80		
45032	15	V	UNIVERSITY 7-43	42-003-41561	80		
45032	16	V	UNIVERSITY 7-43	42-003-41431	80		
45032	17	V	UNIVERSITY 7-43	42-003-43430	80		
45032	18	V	UNIVERSITY 7-43	42-003-40818	80		
Total Well Count>	17		< A. Total Assigned Horiz. Acreage		1360		< C. Total Assigned Acreage
			< Total Remaining Horiz. Acreage				< Total Remaining Acreage
			< B. Total Assigned Vert./Dir. Acreage				
			< Total Remaining Vert./Dir. Acreage				

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)
VERTICAL WELLS: 60 HORIZONTAL WELLS: 28

Attach Additional Pages As Needed. ☐ No additional pages ☒ Additional Pages: 2 (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: Laura E Wallace REGULATORY SUPERVISOR laura.wallace@pxd.com  
Name and title (type or print) Email (include email address *only* if you affirmatively consent to its public release)  
5205 N. O'CONNOR BLVD., SUITE 200, IRVING, TX 75039 972-969-1742 3/14/2017  
Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.



# RAILROAD COMMISSION OF TEXAS

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

Form P-16

Attachment

Page 1A

Rev. 01/2016

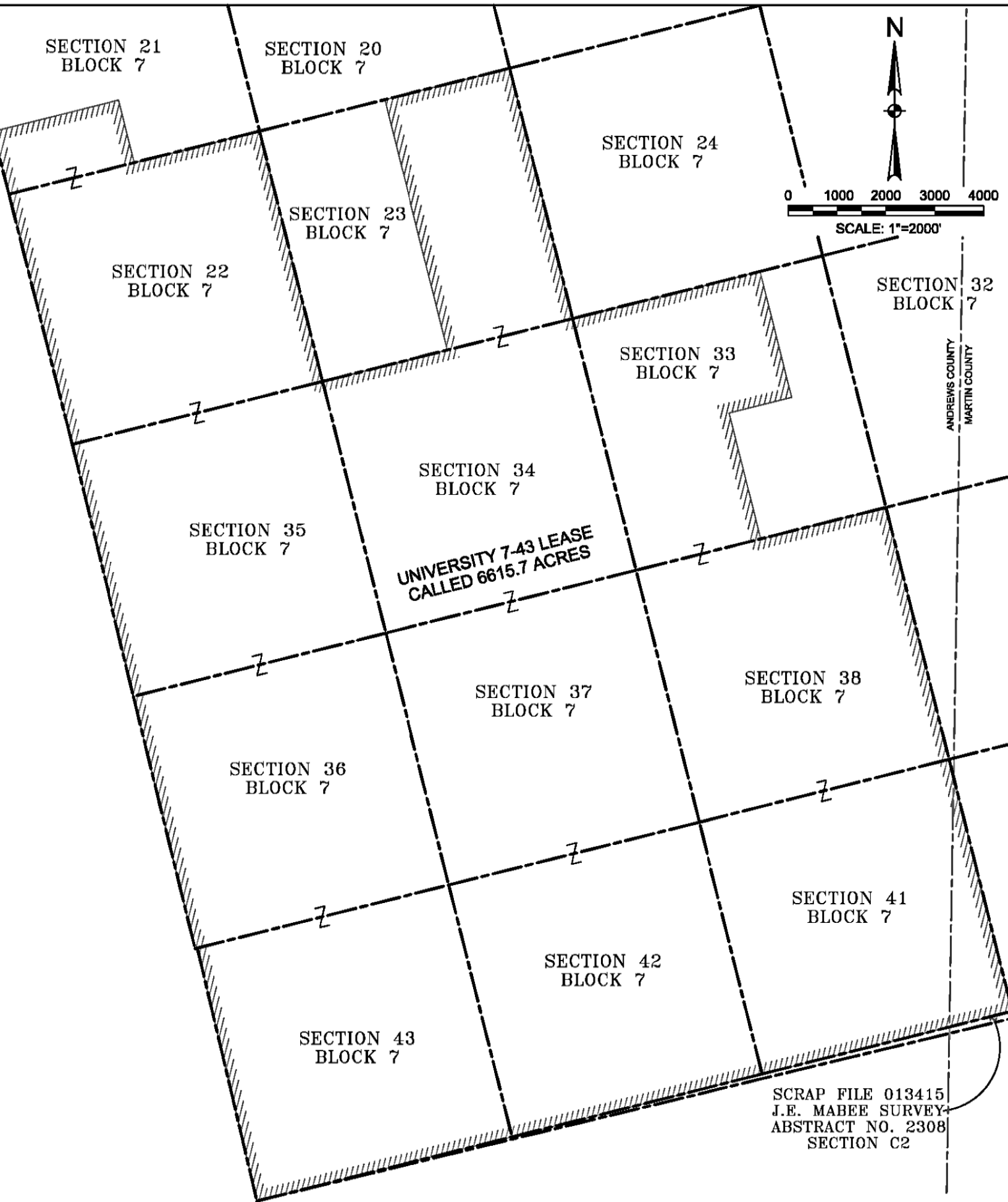
## Acreage Designation Attachment

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 (CONTINUED). 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							
RRC ID No. or Lease No.	Well No.	H -Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
45032	19	V	UNIVERSITY 7-43	42-003-42466	80.00		
45032	20	V	UNIVERSITY 7-43	42-003-42467	80.00		
45032	21	V	UNIVERSITY 7-43	42-317-35825	80.00		
45032	22	V	UNIVERSITY 7-43	42-003-41558	80.00		
45032	23	V	UNIVERSITY 7-43	42-003-42762	80.00		
45032	24	V	UNIVERSITY 7-43	42-317-37279	80.00		
45032	25	V	UNIVERSITY 7-43	42-003-43697	80.00		
45032	26	V	UNIVERSITY 7-43	42-003-43699	80.00		
45032	27	V	UNIVERSITY 7-43	42-003-44045	80.00		
45032	28	V	UNIVERSITY 7-43	42-003-44046	80.00		
45032	29	V	UNIVERSITY 7-43	42-003-42891	80.00		
45032	30	V	UNIVERSITY 7-43	42-003-42916	80.00		
45032	31	V	UNIVERSITY 7-43	42-003-42917	80.00		
45032	32	V	UNIVERSITY 7-43	42-003-42918	80.00		
45032	33	V	UNIVERSITY 7-43	42-003-42919	80.00		
45032	34	V	UNIVERSITY 7-43	42-003-42430	80.00		
45032	35	V	UNIVERSITY 7-43	42-003-41428	80.00		
45032	36	V	UNIVERSITY 7-43	42-003-42431	80.00		
45032	37	V	UNIVERSITY 7-43	42-003-42432	80.00		
45032	38	V	UNIVERSITY 7-43	42-003-42420	80.00		
45032	39	V	UNIVERSITY 7-43	42-003-42426	80.00		
45032	40	V	UNIVERSITY 7-43	42-003-42158	80.00		
45032	41	V	UNIVERSITY 7-43	42-003-43297	80.00		
45032	42	V	UNIVERSITY 7-43	42-003-43301	80.00		
45032	43	V	UNIVERSITY 7-43	42-003-43302	80.00		
45032	44	V	UNIVERSITY 7-43	42-003-43303	80.00		
45032	45	V	UNIVERSITY 7-43	42-003-42921	80.00		
45032	46	V	UNIVERSITY 7-43	42-003-42922	80.00		
45032	47	V	UNIVERSITY 7-43	42-003-42923	80.00		
45032	48	V	UNIVERSITY 7-43	42-003-42924	80.00		
45032	49	V	UNIVERSITY 7-43	42-003-43298	80.00		
45032	50	V	UNIVERSITY 7-43	42-003-40820	80.00		
45032	51	V	UNIVERSITY 7-43	42-003-41584	80.00		
45032	52	V	UNIVERSITY 7-43	42-003-41585	80.00		
45032	53	V	UNIVERSITY 7-43	42-003-42763	80.00		
45032	54	V	UNIVERSITY 7-43	42-003-42154	80.00		
45032	55	V	UNIVERSITY 7-43	42-003-43450	80.00		
45032	57	V	UNIVERSITY 7-43	42-003-42064	80.00		
45032	58	V	UNIVERSITY 7-43	42-003-40877	80.00		

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





#### LEGEND

////	LEASE LINE
---	WELL LATERAL
---	SECTION LINE
Z	LAND HOOK
---	COUNTY LINE
FIR	FOUND IRON ROD
C.M.	CONTROLLING MONUMENT
N.T.S.	NOT TO SCALE
CONC B/D	CONCRETE BRASS DISK
CONC BRKN/B/D	CONCRETE BROKEN BRASS DISK
STNMND	STONE MOUND
GIP	GALVANIZED IRON PIPE
FN	FND NAIL
FIP	FOUND IRON PIPE
FIR	FOUND IRON ROD

ALL OF SECTION 22, SECTION 34, SECTION 35, SECTION 36, SECTION 37, SECTION 38, SECTION 41, SECTION 42, SECTION 43, THE S/2 OF THE SW/4 OF SECTION 21, THE E/2 OF SECTION 23, THE W/2 OF SECTION 33 AND THE W/2 OF THE NE/4 OF SECTION 33 ALL IN BLOCK 7, UNIVERSITY LAND SURVEY, ANDREWS COUNTY, TEXAS AND MARTIN COUNTY, TEXAS

NOTE: WELL IS LOCATED ABOUT 18.4 MILES EAST OF ANDREWS, ANDREWS COUNTY, TEXAS.

**PIONEER NATURAL RESOURCES**  
**UNIVERSITY 7-43 LEASE**



DATED: 10/5/2015  
BY: JUAN GONZALEZ


TBPLS FIRM NO. 10193998  
HALFF ASSOCIATES INC., ENGINEERS ~ SURVEYORS  
4500 W Illinois Ave Ste 301 D~ Midland, TEXAS ~ 79703  
SCALE: 1"=2000' (432)-695-6110 AVO. 29678-W038

**PIONEER**  
NATURAL RESOURCES



# Pioneer Natural Resources

University 7-43 36H-38H pad



0 1,422 2,844  
FEET

**POSTED WELL DATA**

Well Name  
ProdFM

●

Well Number

**WELL SYMBOLS**

- Abandoned Well
- Abandoned Oil Well
- Completion in Progress
- Dry Hole
- Proposed Injector
- Location (Default)
- Oil Well
- Shut-in Oil and Gas
- Salt Water Disposal
- Facilities
- Water Supply
- Junked & Abandoned

**REMARKS**

Circle Represents 1 Mile

By: Casi Renfro

July 15, 2016



## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 11 February 2016**GAU Number:** 151025**Attention:** PIONEER NATURAL RES. USA,  
ATTN WELDON PIERSON  
IRVING, TX 75039**API Number:**  
**County:** ANDREWS  
**Lease Name:** UNIVERSITY 7-43**Operator No.:** 665748**Lease Number:**  
**Well Number:** 36H  
**Total Vertical Depth:** 11600  
**Latitude:** 32.357801  
**Longitude:** -102.228051  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UNIVERSITY LAND; Block-7; Section-38

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 300 feet, and the zone from 1350 to 1750 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 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 02/11/2016. 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

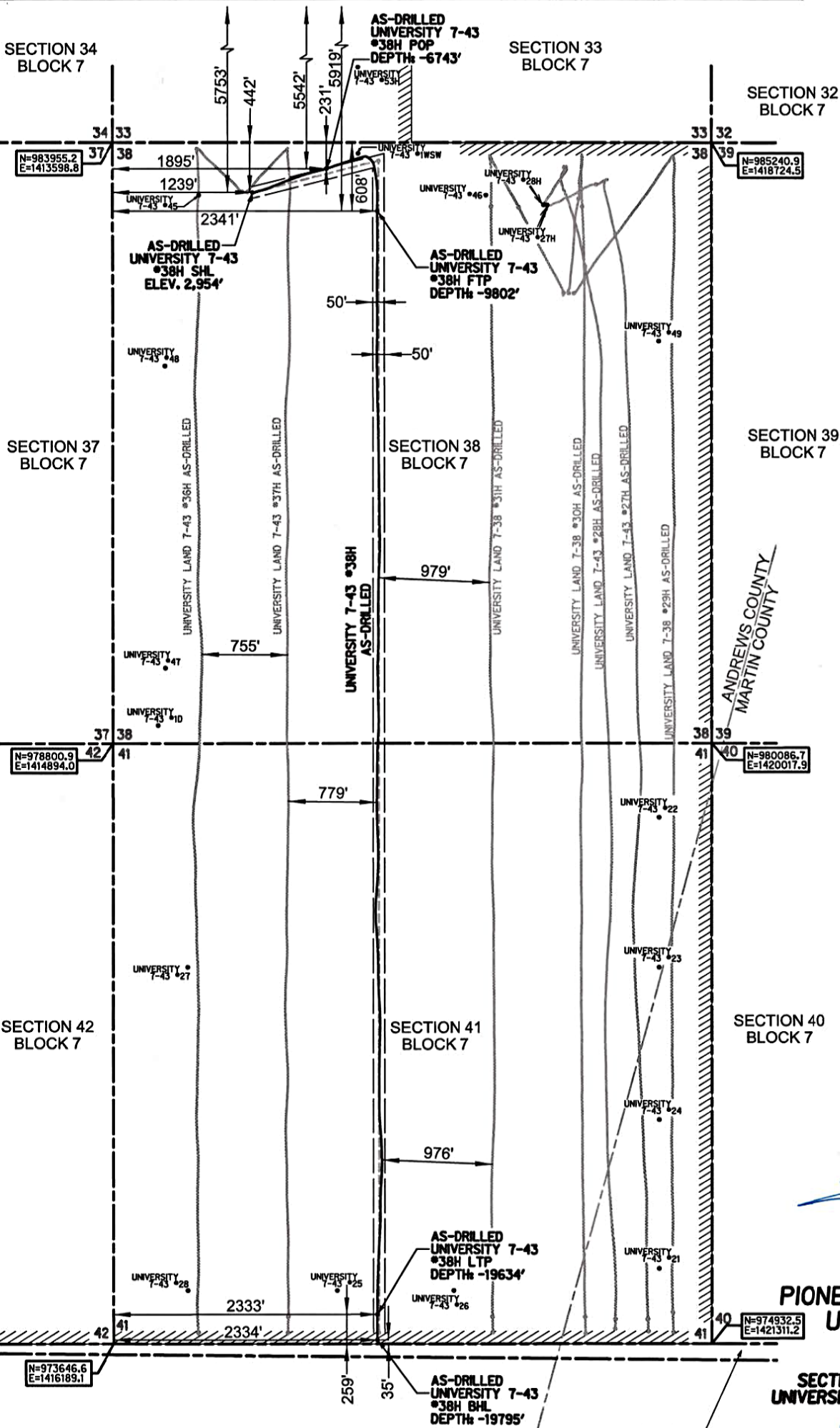
Form GW-2      P.O. Box 12967   Austin, Texas   78771-2967      512-463-2741      Internet address: [www.rrc.texas.gov](http://www.rrc.texas.gov)  
Rev. 02/2014



UNIVERSITY 7-43 #38H	NORTHING (NAD27)	EASTING (NAD27)	LATITUDE (NAD 27)	LONGITUDE (NAD 27)	SURVEY LINE		LEASE LINE	
SURFACE HOLE (SHL)	983828.3	1414908.4	32.3578520	102.2277663	442' N	1239' W	5753' N	4044' E
POINT OF PENETRATION (POP)	984192.3	1415493.7	32.3588795	102.2258917	231' N	1895' W	5542' N	3388' E
FIRST TAKE POINT (FTP)	983935.6	1416018.2	32.3581988	102.2241794	608' N	2341' W	5919' N	2942' E
LAST TAKE POINT (LTP)	974465.9	1418389.7	32.3322879	102.2159838	259' S	2333' W	259' S	2947' E
BOTTOM HOLE (BHL)	974249.0	1418445.2	32.3316944	102.2157922	35' S	2334' W	35' S	2946' E

0 500 1000 1500 2000

SCALE: 1"=1000'



NOTES:

THE BASIS OF BEARING IS THE TEXAS COORDINATE SYSTEM OF 1927, CENTRAL ZONE (4203), AS DERIVED BY GPS MEASUREMENT BASED UPON THE CORRS.

ALL TEXAS STATE PLANE COORDINATES SHOWN HEREON ARE NAD 27 GRID COORDINATES AS COMPUTED BY CORPSCON VERSION 8.0.1. ALL GEOGRAPHIC COORDINATES SHOWN HEREON WERE CONVERTED USING CORPSCON VERSION 8.0.1. 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 1.000232818 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 ACRES 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.

THE AS-DRILLED DATA USED TO DEPICT THE WELL BORE PATH WAS PROVIDED BY OTHERS. NO WARRANTY IS EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION HEREIN.



NOTE: WELL IS LOCATED ABOUT 17.2 MILES EAST OF ANDREWS, ANDREWS COUNTY, TEXAS.

UNIVERSITY 7-43 LEASE  
CALLED 8615.7 ACRES

PIONEER NATURAL RESOURCES  
UNIVERSITY 7-43 #38H  
AS-DRILLED PLAT

LOCATED IN  
SECTION 38 AND SECTION 41, BLOCK 7,  
UNIVERSITY LAND SURVEY, ANDREWS COUNTY,  
TEXAS



DATED: 1/3/2017  
BY: LATASHA OLIVER

TBPLS FIRM NO. 10193998  
HALFF ASSOCIATES INC., ENGINEERS & SURVEYORS  
3300 N. A. ST., BLDG 1, STE #114, MIDLAND, TEXAS ~ 79705  
SCALE: 1"=1000' (432)-253-3250 AVO. 29678-W0129

SCRAP FILE 013415  
J.E. MABEE SURVEY  
ABSTRACT NO. 2308  
SECTION C2

PIONEER  
NATURAL RESOURCES

LEGEND

- LEASE LINE
- WELL LATERAL
- ADJACENT WELL LATERAL
- PROPOSED WELL BORE
- PERMITTED WELL BORE
- LABOR LINE
- LEAGUE LINE
- N.T.S.
- NOT TO SCALE