



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 12/28/2015
Tracking No.: 142035

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	42-383-39266	County:	REAGAN
Well No.:	64H	RRC District	7C
Lease	UNIVERSITY "2-20"	Field	SPRABERRY (TREND AREA)
RRC Lease	16589	Field No.:	85279200
Location	Section: 29, Block: 2, Survey: UL, Abstract: U65		
Latitude		Longitud	
This well is	18.5	miles in a	NORTH
direction from	BIG LAKE,		
which is the nearest town in the			

FILING INFORMATION			
Purpose of	Initial Potential		
Type of	New Well		
Well Type:	Producing	Completion or Recompletion	08/27/2015
Type of Permit	Date	Permit No.	
Permit to Drill, Plug Back, or	12/02/2014	799414	
Rule 37 Exception			
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	05/23/2015	Date of first production after rig	08/27/2015
Date plug back, deepening, drilling operation	05/23/2015	Date plug back, deepening, recompletion, drilling operation	06/14/2015
Number of producing wells on this lease this field (reservoir) including this	16	Distance to nearest well in lease & reservoir	662.0
Total number of acres in	2467.30	Elevation	2647 GL
Total depth TVD	8522	Total depth MD	18698
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)	32.0 Yes
Recompletion or	No	Multiple	No
Type(s) of electric or other log(s)	Acceptable cased hole logs		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	2149.0 Feet from the	Off Lease :	No
	10631.0 Feet from the	East Line and	
		North Line of the	
		UNIVERSITY 2-20 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	475.0	Date 11/05/2014
SWR 13 Exception	Depth		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of	09/04/2015	Production	Gas Lift
Number of hours	24	Choke	
Was swab used during this	No	Oil produced prior to	1963.00
PRODUCTION DURING TEST PERIOD:			
Oil	693.00	Gas	485
Gas - Oil	699	Flowing Tubing	
Water	2472		
CALCULATED 24-HOUR RATE			
Oil	693.0	Gas	485
Oil Gravity - API - 60.:	44.7	Casing	
Water	2472		

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.)	Determined By
1	Surface	13 3/8	17 1/2	625			C	489	831.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5198			TXI & H	552	1031.0	2948	Calculation
3	Conventional Production	5 1/2	8 1/2	18685			TXI	2026	3723.0	4500	Cement Evaluation Log

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>
1	2 3/8	8317	
			<u>Packer Depth (ft.)/Type</u>
			/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 8502	18549.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment	Yes		
Is well equipped with a downhole sleeve?	Yes	If yes, actuation pressure	9500.0
Production casing test pressure (PSIG) hydraulic fracturing	9500	Actual maximum pressure (PSIG) during fracturin	9715
Has the hydraulic fracturing fluid disclosure been	Yes		
<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
GRAYBURG	Yes	3555.0	3555.0	Yes	NO PRODUCTION OR INJECTION WITHIN 1 MILE. FORMATION IS NOT CORROSIVE OR FLOWING WITHIN 1 MILE. SEE ATTACHED MAP
QUEEN	Yes	2991.0	2991.0	Yes	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3913.0	3913.0	Yes	
CLEARFORK	Yes	5623.0	5623.0	Yes	
SPRABERRY	Yes	7034.0	7036.0	Yes	FORMATION BELOW TD
STRAWN	No			No	
FUSSELMAN	No			No	
ELLENBURGER	No			No	FORMATION BELOW TD
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

RRC REMARKS
PUBLIC COMMENTS: [RRC Staff 2015-12-02 17:31:24.01] EDL=9960 feet, max acres=680, SPRABERRY (TREND AREA) oil well
CASING RECORD :
TUBING RECORD:
PRODUCING/INJECTION/DISPOSAL INTERVAL :
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :
POTENTIAL TEST DATA: NEW WELL - LOG BEING MAILED TO AUSTIN RRC. KOP ~ 7852'

OPERATOR'S CERTIFICATION			
Printed	JOEY PARKER	Title:	REGULATORY SPECIALIST II
Telephone	(972) 969-5157	Date	11/23/2015



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: Pioneer Natural Res. USA, INC	Operator P-S No.: 665748
Cementer Name: Schlumberger	Cementer P-S No.: 754900

WELL INFORMATION

District No.: 7C	County: REAGAN
Well No.: 644	API No.: 4238839266 Drilling Permit No.: 799414
Lease Name: UNIVERSITY 2-20	Lease No.: 10589
Field Name: SPRABERRY (TREND AREA)	Field No.: 85279200

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.): 625'
Size of casing in O.D. (in.): 13 3/8"	Casing weight (lbs/ft) and grade: 94.5 J-55
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Setting depth shoe (ft.): 625'
If no for surface casing, explain in Remarks.	Top of liner (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 0
	Cementing date: 24-May-15

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	489	C	Remarks	831.0	600
2					
3					
Total	489			831.0	600

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 (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:
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					

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.):
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:
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							
94 pps D9093+3% D02u+2% S001 60 BBL circulated to surface							

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.

<u>Alec Soulliere, FE</u> Name and title of cementer's representative	<u>Schlumberger</u> Cementing Company	<u>Alec Soulliere</u> Signature
<u>10301 Fischer Road</u> Address	<u>Von Army TX 78073</u> City, State, Zip Code	<u>(210) 623-9500</u> Tel: Area Code Number
		<u>May 24, 2015</u> 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.

Joseph Parker, Regulatory Specialist
5205 N. O'Connor Blvd., Suite 200
Irving, TX 75039
972-969-5157

Joseph Parker
Title
8125115
Tel: Area Code Number
Date: mo. day yr.

5, Cementing Report

NOTE: The Form W-15 must be submitted as an attachment to a Form W-3 (Gas Well Data 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 78711-2957).
- 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/readtac5ext.tacPage?sl=R&app=9&p_dir=&p_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=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/DV 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.



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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: PIONEER NATURAL RESOURCES USA INC

Operator P-5 No.: 665748

Cementer Name: SCHLUMBERGER TECHNOLOGY CORPORATION

Cementer P-5 No.: 754900

WELL INFORMATION

District No.: 7C

County: DEAGAN

Well No.: 644

API No.: 4238339206

Drilling Permit No.: 799414

Lease Name: UNIVERSITY 2-20

Lease No.: 6589

Field Name: Spraberry (TRENDS AREA)

Field No.: 85279200

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☒ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 12 1/4"

Depth of drilled hole (ft.): 5242'

Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): 9 5/8"

Casing weight (lbs/ft) and grade: 40 L-80

No. of centralizers used: 16

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☒ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.):

Top of liner (ft.):

5198'

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out: 12

Calculated top of cement (ft.): 2948'

Cementing date: May 28, 2015

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	358	TXI	See Remarks	823	1750
2	194	H	See Remarks	208	500
3					
Total	552			1031	2250

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ 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? ☐ YES ☐ 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: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ 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? ☐ YES ☐ 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
Lead- TXI+ D046 + D167 + D020 + D042 + D208 + D065 + D174 Tail- Class H + D046 + D065 + D013

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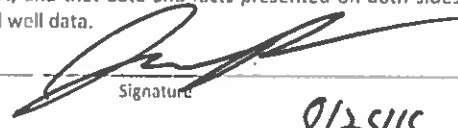
Patrick McPadden, FE

SCHLUMBERGER

Name and title of cementer's representative	Cementing Company	Signature
2106 N. County Road	Midland, Tx, 79707 (432)-687-7058	
Address	City, State, Zip Code	Tel: Area Code Number
		Date: mo. day yr.

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Joseph Parker, Regulatory Specialist
5205 N. O'Connor Blvd., Suite 200
Irving, TX 75039
972-969-5157

Title	Signature
	
State, Zip Code	Tel: Area Code Number
	Date: mo. day yr.

Form W-15, Cementing Report

(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.

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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/readtac\\$ext.TacPage?sl=R&app=9&p_dlr=&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/readtac$ext.TacPage?sl=R&app=9&p_dlr=&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/DV 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

JUN 30 2015



RAILROAD COMMISSION OF TEXAS

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P.O. Box 12967

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CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: Pioneer Natural Resources USA, INC	Operator P-5 No.: 665748
Cementer Name: Schlumberger	Cementer P-5 No.: 754900

WELL INFORMATION

District No.: TC	County: Reagan
Well No.: 64H	API No.: 42-38334246 Drilling Permit No.: 799414
Lease Name: University 2-20	Lease No.: 16589
Field Name: Spraberry (Trend Area)	Field No.: 85279200

I. 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 1/2" Depth of drilled hole (ft.): 18,698' Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 5 1/2" Casing weight (lbs/ft) and grade: 20 P-110 No. of centralizers used: 55
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no for surface casing, explain in Remarks.
Setting depth shoe (ft.): 18,685' Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12 Calculated top of cement (ft.): 4500' Cementing date: 13-Jun-15

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	404	TXI	REMARKS	901.0	3300
2	1622	TXI	REMARKS	2822.0	11554
3					
Total	2026			3723.0	14854

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.) Upper: Lower: Tapered string depth of drilled hole (ft.) Upper: Lower:
Tapered string size of casing in O.D. (in.) Upper: Lower: Tapered string casing weight (lbs/ft) and grade 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.): 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.) Upper: Lower: Tapered string depth of drilled hole (ft.) Upper: Lower:
Tapered string size of casing in O.D. (in.) Upper: Lower: Tapered string casing weight (lbs/ft) and grade 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.): 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							
Slurry 1, TXI+.2%D046+.2%D065+.15%D208+.4%D020+.4%D013+.5%D207+.2%D154+.3%D174							
Slurry 2, TXI+.5%D167+.2%D046+.8%D800+.10%154+.25%D065+.07%D208+.3%D174							
Slurry 3,							
Slurry 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.

David Terry, FS
Name and title of cementer's representative

Schlumberger
Cementing Company


Signature

10301 Fischer Road Von Ormy TX 78073
Address City, State, Zip Code

(210) 623-9500
Tel: Area Code Number

June 13, 2015
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.

Joseph Parker, Regulatory Specialist
5205 N. O'Connor Blvd., Suite 200
Irving, TX 75039
972-969-5157

Title


Signature
8/25/15

Tel: Area Code Number

Date: mo. day yr.

W-15, Cementing Report

NOTE: 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/log/n.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 cements approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readacSext.TacPage?sl=R&app=9&p_dlm=&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/DV 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.

Tracking No.: 142035

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. 7C	Completion Date: 08/27/2015
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 799414	
Lease Name UNIVERSITY "2-20"	Lease/ID No. 16589	Well No. 64H
County REAGAN	API No. 42- 383-39266	

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). _____

JOEY PARKER

Signature

PIONEER NATURAL RES. USA, INC.

Name (print)

REGULATORY SPECIALIST II

Title

(972) 969-5157

Phone

11/10/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-

RECEIVED
RRC OF TEXAS
DEC 17 2014
OIL & GAS
SAN ANGELO

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36

FORM H-9
12/12/77

FILE WITH
DISTRICT OFFICE
IN TRIPLICATE

1. Operator PIONEER NATURAL RESOURCES USA INC.			2. Operator Number (See Instruction 13) 665748		3. RRC Dist. 7C
4. Street or P.O. Box No. 5205 N OCONNOR BLVD, #200, ATTN: H. BARCIA			5. City IRVING	6. State TX	7. Zip Code 75039
8. Name of Lease, Facility or Operation University 2-20 63H, 64H, & 65H			9. Field or Area Name SPRABERRY (TREND AREA)		10. County Reagan
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			Type ID Code (See Instruction 12)	Indicate if Filing for Storage Facility Only YES NO	13. Hydrogen Sulfide Concentration 25,000 PPM
799437			5	<input checked="" type="checkbox"/>	14. Maximum Escape Volume 20 MCF/Day
799414			5	<input checked="" type="checkbox"/>	15. 100 PPM Radius of Exposure (ROE) 65 Ft.
799415			5	<input checked="" type="checkbox"/>	16. 500 PPM Radius of Exposure (ROE) 30 Ft.
					17. Operation is Existing <input type="checkbox"/> New <input checked="" type="checkbox"/>
					18. Modification Resulting in Certificate Change <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					19. Workover or Drilling Well with 100 PPM ROE Greater than 3000 feet on Rule 36 Certified Well/Lease <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					20. Previous Certificate Number if Available (For Amended Certificates) <u>NONE</u>
					21. The 100 PPM ROE includes any part of a public area except a public road <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					22. The 500 PPM ROE includes any part of a public road <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 <u>2/5/2015</u> Mo Day Year
					Depth of Compliance for Drilling Operation <u>1000</u> Ft. from Surface
25. Contingency Plan Location of Plan (See Instruction 15) Drilling Contingency Plan for Drilling available at Field Office at 4815 E. Hwy 80, Midland, TX 79706			Has been prepared <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
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					
CERTIFICATE					
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.					
<u>Majora</u> Representative of Company		Regulatory Specialist		972-969-4001	12/12/2014
		Title		Phone No.	Date

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: Bill Squagius

DATE: 12-18-2014

REMARKS:

CERTIFICATION NUMBER: _____

☒ APPROVED

RAILROAD COMMISSION OF TEXAS

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

P-16 Data Sheet (Optional)

Page 1

Rev. 09/2014

Acreage Designation

SECTION I. OPERATOR INFORMATION

SECTION I. OPERATOR INFORMATION	
Operator Name:	Operator P-5 No.:
Operator Address:	

SECTION II. WELL INFORMATION

SECTION II. WELL INFORMATION		
District No.:	County:	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.:	API No.:	
Total Lease Acres:	Drilling Permit No.:	
Lease Name:	Lease No.:	
Field Name:	Field No.:	

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

[illegible]

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		

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

--

Attach Additional Pages As Needed. ☐ No additional pages ☐ Additional Pages: _____ (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

Name and title (type or print)

Email (include email address *only* if you affirmatively consent to its public release)

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

P-16 Data Sheet
Attachment

Page 1A

Rev. 1/2014

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	Operator Name and Operator No. (if different from filing operator)
16589	67	V	University 2-20	42-383-36174	80	
16589	68	V	University 2-20	42-383-37375	80	
16589	69	V	University 2-20	42-383-36712	80	
16589	70	V	University 2-20	42-383-37793	80	
16589	71	V	University 2-20	42-383-37338	80	
16589	72	V	University 2-20	42-383-37797	80	
16589	73	V	University 2-20	42-383-37677	80	
16589	42H	H	University 2-20	42-383-38314	145.1	
16589	43H	H	University 2-20	42-383-38313	145.1	
16589	44H	H	University 2-20	42-383-38316	145.1	
16589	45H	H	University 2-20	42-383-38716	145.1	
16589	46H	H	University 2-20	42-383-38717	145.1	
16589	47H	H	University 2-20	42-383-38718	145.1	
16589	54H	H	University 2-20	42-383-38306	145.1	
16589	55H	H	University 2-20	42-383-38307	145.1	
16589	56H	H	University 2-20	42-383-38312	145.1	
16589	57H	H	University 2-20	42-383-38576	145.1	
16589	58H	H	University 2-20	42-383-38577	145.1	
16589	59H	H	University 2-20	42-383-38578	145.1	
16589	62H	H	University 2-20	42-383-38709	145.1	
16589	60H	H	University 2-20	42-383-38707	145.1	
16589	61H	H	University 2-20	42-383-38708	145.1	
16589	64H	H	University 2-20	42-383-39266	145.1	
Total Well Count >	40	2,321.60	< A. Total Assigned Horiz. Acreage			< C. Total Assigned Acreage
		145.70	< Total Remaining Horiz. Acreage			< Total Remaining Acreage
		1,920.00	< B. Total Assigned Vert./Dir. Acreage			
		547.30	< Total Remaining Vert./Dir. Acreage			

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date **November 5, 2014**

GAU File No.: **12121**

API Number **38339268**

Attention: **DAVID VINCENTI**

RRC Lease No. **000000**

SC_665748_38339268_000000_12121.pdf

**PIONEER NATURAL RESOURCES USA
5205 N OCONNOR BLVD
STE 200
IRVING TX 75039**

P-5# 665748

--Measured--

2149 ft FEL

2622 ft FSL

MRL:SECTION

Digital Map Location:

X-coord/Long **1559052**

Y-coord/Lat **590174**

Datum **27** Zone **C**

County **REAGAN**

Lease & Well No. **UNIVERSITY 2-20 #63H&PAD**

Purpose **ND**

Location **SUR-UL,BLK-2,SEC-29,--[TD=10650],[RRC 7C],**

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 475 feet must be protected.

This recommendation is applicable to all wells drilled on this pad.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

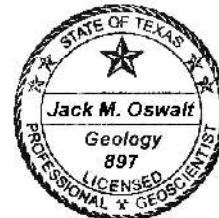
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin,
o=Railroad Commission of Texas,
cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2014.11.05 14:48:31 -06'00'

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 11/5/2014
Note: Alteration of this electronic document will invalidate the digital signature.

UNIV 2-20 64H - PRODUCING FORMATIONS











0 2,276 4,552

FEET

POSTED WELL DATA

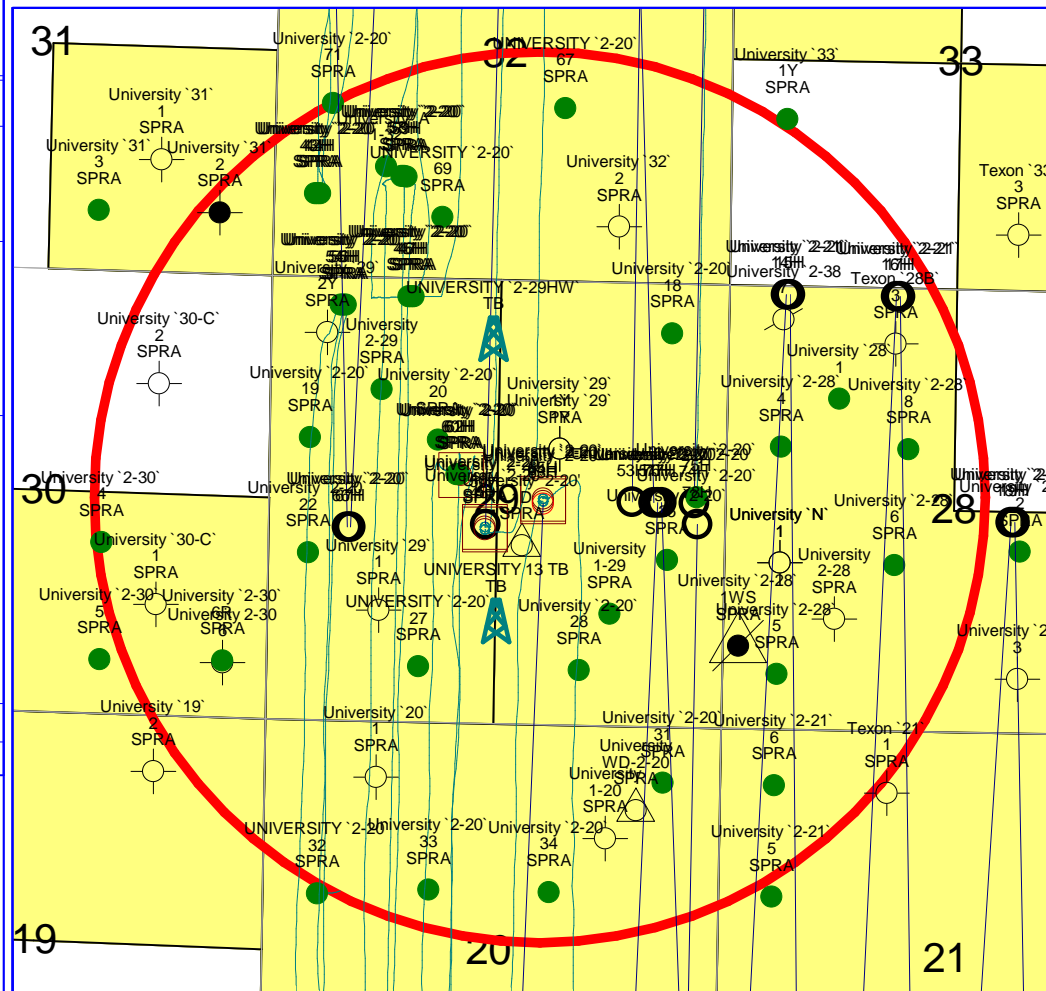
Well Name
Well Number
PdCum - FMNAME

WELL SYMBOLS

-  Abandoned Location
-  Completion in Progress
-  Dry Hole
-  Location
-  New Location
-  Oil Well
-  Plugged and Abandoned
-  Service Well
-  Temp. Abandoned Service Well
-  Facilities

By: Joey Parker

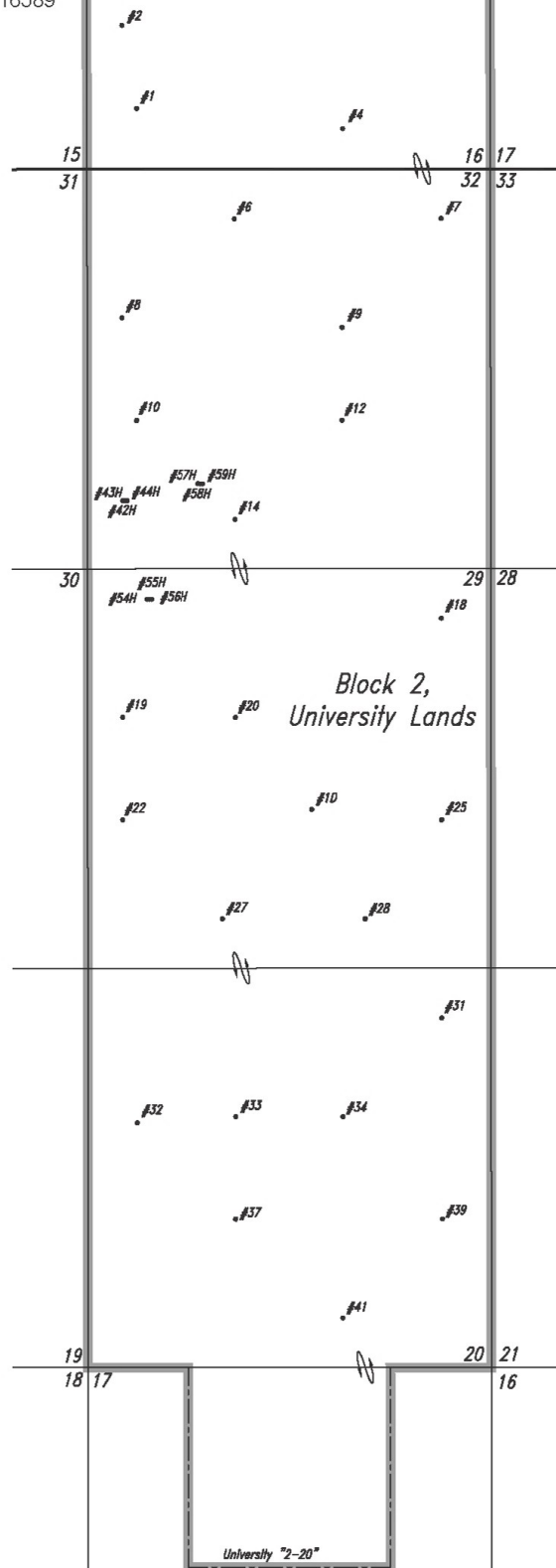
November 19, 2015



Block 58,
University Lands

Lease # 16589

PIONEER NATURAL RESOURCES



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.
Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.



February 12, 2014

140212B-A

After Lease Consolidation Drawing

2467.3 Acres

PIONEER NATURAL RESOURCES USA, Inc.
University "2-20" Lease
all of Sections 20, 29, 32, W/2 of the NE/4 &
E/2 of NW/4 of Section 17, Block 2,
S/2 of Section 16, Block 58,
University Lands,
Reagan County, Texas

Scale: 1" = 2000'

