

**RAILROAD COMMISSION OF TEXAS****Form W-2**

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

Status: Approved  
Date: 05/21/2018  
Tracking No.: 190775

**OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG****OPERATOR INFORMATION**

Operator Name: XTO ENERGY INC. Operator No.: 945936  
Operator Address: ATTN: DEEANN KEMP 6401 HOLIDAY HILL RD #5 MIDLAND, TX 79707-2156

**WELL INFORMATION**

API No.: 42-495-33713 County: WINKLER  
Well No.: 1310H RRC District No.: 08  
Lease Name: UNIVERSITY BLK 20 Field Name: TWO GEORGES (BONE SPRING)  
RRC Lease No.: 42354 Field No.: 92100050  
Location: Section: 13, Block: 20, Survey: UL, Abstract: U14  
  
Latitude: Longitude:  
This well is located 7.2 miles in a W  
direction from WINK,  
which is the nearest town in the county.

**FILING INFORMATION**

Purpose of filing: Well Record Only  
Type of completion: New Well  
Well Type: Shut-In Producer Completion or Recompletion Date: 02/02/2018  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	07/21/2017	813661
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

**COMPLETION INFORMATION**

Spud date: 07/13/2017	Date of first production after rig released: 02/02/2018
Date plug back, deepening, recompletion, or drilling operation commenced: 07/13/2017	Date plug back, deepening, recompletion, or drilling operation ended: 10/30/2017
Number of producing wells on this lease in this field (reservoir) including this well: 9	Distance to nearest well in lease & reservoir (ft.): 509.0
Total number of acres in lease: 1381.51	Elevation (ft.): 2812 GR
Total depth TVD (ft.): 11880	Total depth MD (ft.): 22117
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): 277.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Other	Multiple completion? No
Electric Log Other Description: RCBL/GR/CCL	
Location of well, relative to nearest lease boundaries of lease on which this well is located:	Off Lease : No
239.0 Feet from the North Line and	
1224.0 Feet from the East Line of the	
	UNIVERSITY BLK 20 Lease.

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

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
PACKET: N/A			

W2:	N/A
<b>FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:</b>	
<b>GAU Groundwater Protection Determination</b>	<b>Depth (ft.): 950.0</b>
<b>SWR 13 Exception</b>	<b>Date: 12/12/2016</b>
	<b>Depth (ft.):</b>

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
<b>Date of test:</b>	<b>Production method:</b>
<b>Number of hours tested: 24</b>	<b>Choke size:</b>
<b>Was swab used during this test? No</b>	<b>Oil produced prior to test:</b>
PRODUCTION DURING TEST PERIOD:	
<b>Oil (BBLs):</b>	<b>Gas (MCF):</b>
<b>Gas - Oil Ratio: 0</b>	<b>Flowing Tubing Pressure:</b>
<b>Water (BBLs):</b>	
CALCULATED 24-HOUR RATE	
<b>Oil (BBLs):</b>	<b>Gas (MCF):</b>
<b>Oil Gravity - API - 60.:</b>	<b>Casing Pressure:</b>
<b>Water (BBLs):</b>	

CASING RECORD											
		Casing	Hole	Setting	Multi -	Multi -		Cement	Slurry	Top of	TOC
Row	Type of	Size	Size	Depth	Stage Tool	Stage Shoe	Cement	Amount	Volume	Cement	Determined
	Casing	(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1	Surface	9 5/8	12 1/4	5164	1160		C	950	1265.0	0	Circulated to Surface
2	Surface	9 5/8	12 1/4	5164			C	3060	5642.0	1160	Circulated to Surface
3	Intermediate	7	8 3/4	12090			PREM H	1125	2777.0	2000	Calculation

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
1	4 1/2	6 1/8	11189	22108	H	960	1196.2	11189	Calculation

TUBING RECORD		
Row	Size (in.)	Depth Size (ft.)
		Packer Depth (ft.)/Type
		/
N/A		

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
		L	
N/A			

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
<b>Was hydraulic fracturing treatment performed?</b>	No		
<b>Is well equipped with a downhole actuation sleeve?</b>	No	<b>If yes, actuation pressure (PSIG):</b>	
<b>Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:</b>		<b>Actual maximum pressure (PSIG) during hydraulic fracturing:</b>	
<b>Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?</b>	No		
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

## FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W COLBY-QUEEN	Yes	834.0	834.0	Yes	
YATES	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
QUEEN-SEVEN RIVERS	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
DELAWARE	Yes	5159.0	5161.0	Yes	
GLORIETA	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
CLEARFORK	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
WICHITA ALBANY	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
BRUSHY CANYON	Yes	7608.0	7610.0	Yes	
CHERRY CANYON	Yes	6150.0	6153.0	Yes	
CANYON	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
BONE SPRINGS	Yes	9010.0	9013.0	Yes	
MONTOYA	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
WADDELL	No			No	NOT ENCOUNTERED IN THE IMMEDIATE AREA
WOLFCAMP	Yes	11828.0	11938.0	Yes	
ATOKA	No			No	DEEPER THAN TD OF WELL
STRAWN	No			No	DEEPER THAN TD OF WELL
PENNSYLVANIAN	No			No	DEEPER THAN TD OF WELL
MISSISSIPPIAN	No			No	DEEPER THAN TD OF WELL
DEVONIAN	No			No	DEEPER THAN TD OF WELL
SILURIAN	No			No	DEEPER THAN TD OF WELL
FUSSELMAN	No			No	DEEPER THAN TD OF WELL
ELLENBURGER	No			No	DEEPER THAN TD OF WELL
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

KOP: 12463. THIS WELL HAS NOT BEEN COMPLETED. A IP W2 WILL BE FILED WHEN THE WELL HAS BEEN

## RRC REMARKS

### PUBLIC COMMENTS:

### CASING RECORD :

### TUBING RECORD:

THIS WELL HAS NOT BEEN COMPLETED

### PRODUCING/INJECTION/DISPOSAL INTERVAL :

THIS WELL HAS NOT BEEN COMPLETED

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

THIS WELL HAS NOT BEEN COMPLETED

### POTENTIAL TEST DATA:

## OPERATOR'S CERTIFICATION

**Printed Name:** Tessa Fitzhugh

**Title:** Regulatory Analyst

**Telephone No.:** (432) 620-4336

**Date Certified:** 05/08/2018



# 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: XTO ENERGY

Operator P-5 No.: 945936

Cementer Name: HALLIBURTON ENERGY SERVICES

Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08

County: WINKLER

Well No.: #1310H

API No.: 42495-33713

Drilling Permit No.:

Lease Name: UNIVERSITY BLK 20

Lease No.: 42354

Field Name: W George (bone Spring)

Field No.: 71052900

### I. CASING CEMENTING DATA

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

Drilled hole size (in.): 8 3/4

Depth of drilled hole (ft.): 2090

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 7

Casing weight (lbs/ft) and grade: 29# P-110

No. of centralizers used: 58

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.):

2090

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out: 54

Calculated top of cement (ft.): 2000

Cementing date: 8/16/2017

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	885	PREMIUM H	REMARKS	2478	16470
2	240	PREMIUM H	REMARKS	299	1848
3					
Total	1125			2777	18318

### 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	0			0	0

### 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	0			0	0



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 SLURRY: 05% SA-1015, 75% HR-800, 25 LBM D-AIR  
 TAIL SLURRY: 50% LAP-1, 30% CFR-3, 25 LBM D-AIR, 15% HR-601  
 DID NOT CIRCULATE CEMENT BACK TO SURFACE (SO#904187223)

**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.

**MANUEL DOMINGUEZ SS III**

**Halliburton**

Name and title of cementer's representative <b>1301 W. Webb St.</b>	Cementing Company <b>Brownfield, Tx, 79316</b>	Signature 	Date: <b>8/16/2017</b>
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.

Typed or printed name of operator's representative <b>Tessa Fitzhugh</b>	Title <b>Well Analyst</b>	Signature 	Date: <b>8-13-2018</b>
Address <b>300 W. Illinois, Ste 100 Midland TX 79701</b>	City, State, Zip Code	Tel: Area Code Number <b>432-620-1310</b>	Date: mo. day yr.

### Instructions for Form 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.

- 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 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/readtac\\$ext.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/readtac$ext.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.
- D. 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.
- E. 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.
- F. 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.
- G. 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: XTO ENERGY			Operator P-5 No.: 945936		
Cementer Name: HALLIBURTON ENERGY SERVICES			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: WINKLER		
Well No.: 1310H			API No.: 42-495-83713		Drilling Permit No.:
Lease Name: UNIVERSITY BLK 20			Lease No.: 42354		
Field Name: two Georges (Bone Spring)			Field No.: 71082900		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
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:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
			Setting depth liner (ft.):		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date: 6-22-17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
II. CASING CEMENTING DATA					
Type of casing: <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 5105		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 40		No. of centralizers used: 31	
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 checked="" type="checkbox"/> NO			Setting depth shoe (ft.): 5104		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 1160		Cementing date: 7-18-17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	2555	C	REMARKS	4969.47	2147
2	505	C	NA	672.66	3018
3					
Total	3060			5642.13	5165
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 checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 5105		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 40		No. of centralizers used: 31	
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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO			Setting depth tool (ft.): 1160		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0		Cementing date: 7-18-17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	950	C	NA	1265.4	1159
2					
3					
Total	950			1265.4	1159



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

SALES ORDER 9041552 58 SLURRY1 LEAD: 0.125 LBM POLY-E-FLAKE.3 LBM KOL-SEAL, 0.65% HR-800  
CIRCULATED 808BL5/337 SKS ON OF 2ND STAGE LEAD SLURRY

**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.

**BRANDON MACHADO SERVICE SUPERVISOR**

**Halliburton**

*[Signature]*  
Signature

Name and title of cementer's representative

Cementing Company

1301 W. Webb St.

Brownfield, Tx, 79316

575-392-0700

7-18-17

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.

*Tessa Fitzhugh*  
Typed or printed name of operator's representative

*Reg Analyst*  
Title

*[Signature]*  
Signature

10401 Holiday Hill Rd Bldg 5 Midland TX 79701

City, State, Zip Code

432-620-1336

4-11-2018

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

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- 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/readtac\\$ext.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/readtac$ext.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/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.





# 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: XTO ENERGY INC EBUS

Operator P-5 No.: 9469312

Cementer Name: HALLIBURTON

Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08

County: WINKLER

Well No.: 1310H

API No.: 42-498-33713

Drilling Permit No.:

Lease Name: UNIVERSITY BLK 20

Lease No.: 42354

Field Name: two george (bone spring)

Field No.: 71082900

### I. CASING CEMENTING DATA

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

Drilled hole size (in.): 6 1/8

Depth of drilled hole (ft.): 22108

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 4 1/2

Casing weight (lbs/ft) and grade: B-50

No. of centralizers used:

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.): 22108

Top of liner (ft.): 11,189

Setting depth liner (ft.): 22108

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.): 11,189

Cementing date: 10/26/2017

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	960	H	SEE REMARKS	1196.16	12600
2					
3					
Total	960			1196.16	12600

### 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	0			0	0

### 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	0			0	0

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 ADDITIVES: 0.40% HALAD R-344, 0.35% HR-601, 0.25LBM D AIR 5000. CIRCULATED 27 BBLs OF CEMENT OF LINER TOP.

**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.

**RUBEN MEDINA SERVICE SUPERVISOR**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

10/26/2017

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.

Typed or printed name of operator's representative

Title

Signature

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

### Instructions for Form 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/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.

CHRISTI CRADDICK, CHAIRMAN  
DAVID PORTER, COMMISSIONER  
RYAN SITTON, COMMISSIONER



LORI WROTENBERY  
DIRECTOR, OIL AND GAS DIVISION  
  
D. CRAIG PEARSON  
DISTRICT DIRECTOR

## RAILROAD COMMISSION OF TEXAS

### OIL AND GAS DIVISION

**OPERATOR Name:** XTO ENERGY INC.

**RE: Lease:** UNIVERSITY BLK 20

**Address1:** ATTN ALAN CODY

**Address2:** 810 HOUSTON STREET

**City:** FORT WORTH

**State:** TX

**Well No:** 1310H

**Sec:** 13 **Block:** 20

**County:** WINKLER

**Survey Name:** UL

**SWR13EX Application Number:** 11883

**Drilling Permit No:** 813661

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

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UNIVERSITY BLK 20  
**WELL NUMBER:** 1310H 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 5200 feet of surface casing with a multistage tool set at a depth of not less than 1100 feet. Circulate cement from the multistage tool to the ground surface. If cement does not circulate to surface during the first stage, the multistage tool MUST be opened and neat cement be circulated from the tool to the surface.

The multistage tool is included as a contingency measure to achieve cement returns to surface.

Please notify the Midland District Office immediately if any gas, H<sub>2</sub>S or otherwise, is encountered before surface casing is set.

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 12/19/2016. 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: 12/20/2016

D. CRAIG PEARSON

DISTRICT DIRECTOR



APPLICATION FOR APPROVAL OF SURFACE CASING > 3500 FEET  
Statewide Rule 13(b)(1)(A)  
RAILROAD COMMISSION OF TEXAS

Operator's Name and Address: XTO Energy, Inc  
500 W. Illinois St Ste 100  
Midland, Texas 79701

P5 Number: 945936

Area for review: Single Well Location

Lease Name: University Blk 20

Field Name: Phantom (Wolfcamp), Two Georges (Bone Spring) County: Winkler

Survey: UL

Abstract: \_\_\_\_\_

Drilling Permits: 813661

Note: Attach a map if the request is for more than one pad.

How will the operator maintain well control during drilling operations:

Adequate mud weight will be used to control well. This mud weight is known from offset wells.

Mud Type: Fresh Water/Cut Brine 8.5-9.98ppg. 29-30s/qt. 9.5-10.0ph with LCM as needed.

How will the operator ensure cement is circulated to surface and that there is adequate bonding of cement:

Cement design will include 100% excess on both lead and tail slurries. A DV tool will be run at 1100' as a contingency though cement was able to be brought to surface on the 1st Stage in offset wells.

How will the operator prevent the migration of formation fluids thru the annular space:

Proper mud design, cement volume and slurry design will prevent migration of formation fluid. Cement will be brought to surface.

Signature: Stephanie Rabadue Name: Stephanie Rabadue Date: 12/16/2016 Phone: 432-620-6714

RRC District Office Action:

☒ Approved

☐ Approved as Modified

☐ Denied

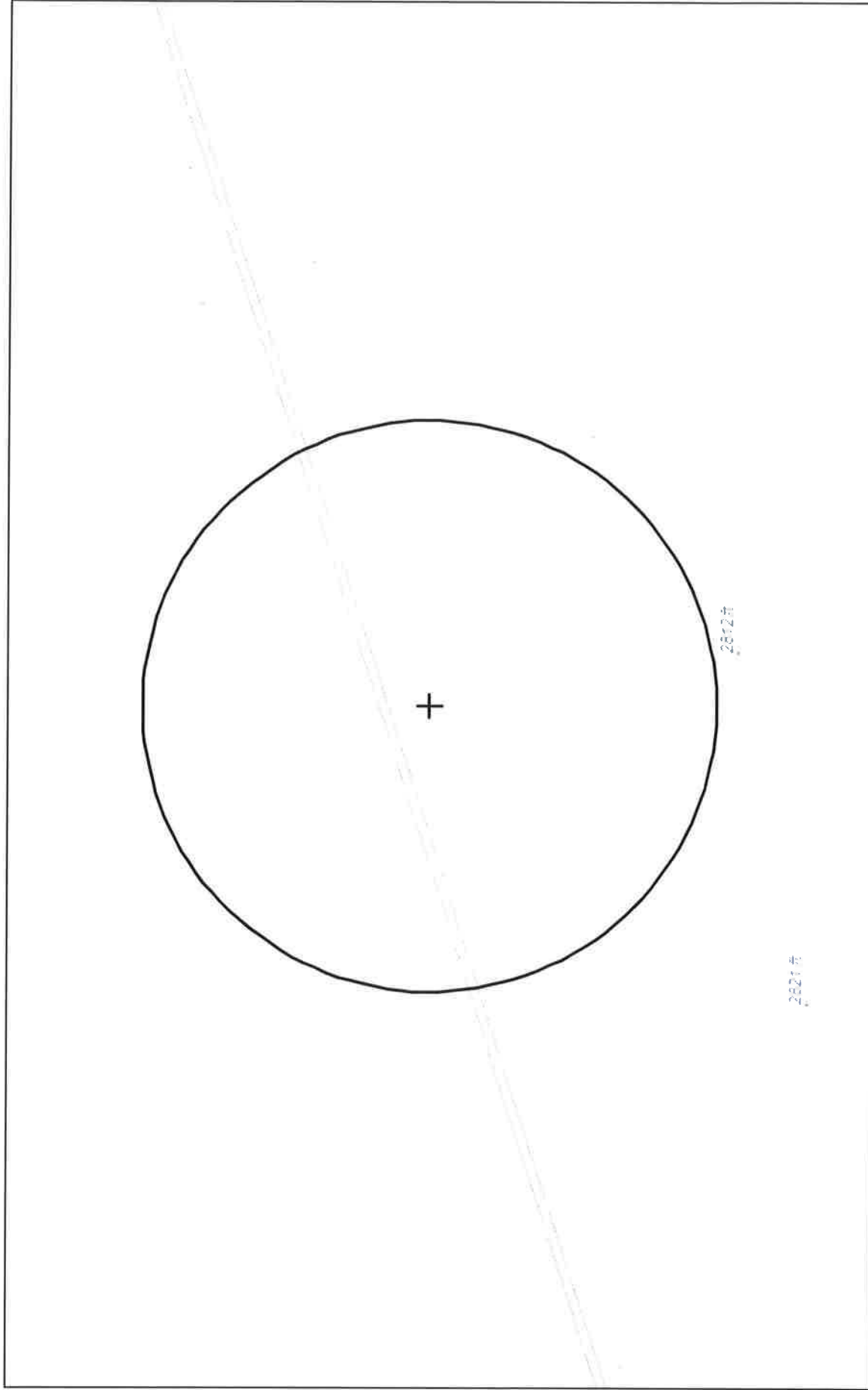
By: Erik Hanson

Date: 12-20-16

RRC Use Only▶

Remarks/Modifications:

# University Blk 20 1310H



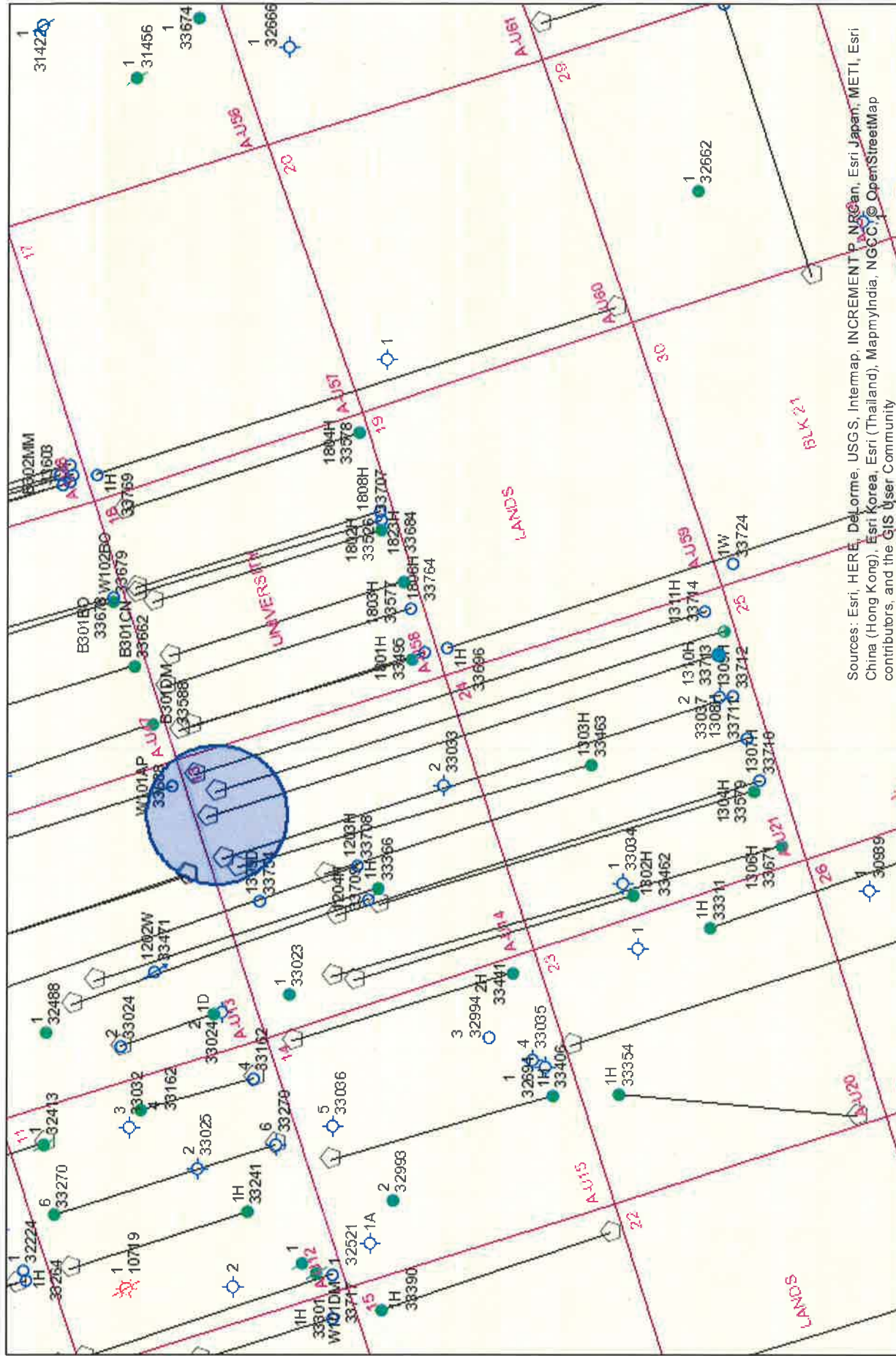
December 16, 2016

The data in Water Data Interactive represents the best available information provided by the TWDB and third-party cooperators of the TWDB. The TWDB provides information via this web site as a public service. Neither the State of Texas nor the TWDB assumes any legal liability or responsibility or makes any guarantees or warranties as to the accuracy, completeness or suitability of the information for any particular purpose. The TWDB systematically reviews or removes data discovered to be incorrect. If you find inaccurate information or have questions, please contact WDI-Support@twdb.texas.gov.



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

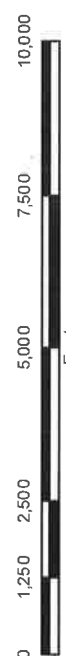




Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, OpenStreetMap contributors, and the GIS User Community

December 16, 2016

1 inch = 3,009 feet



PREPARED BY:

# RAILROAD COMMISSION of TEXAS

P.O. BOX 12967  
AUSTIN, TX 78711-2967

Source: RRC Public GIS Viewer

NOTICE/DISCLAIMER: Mapping data sets are provided for informational purposes only. These data sets are continuously being updated and refined. Users are responsible for checking the accuracy, completeness, currency and/or suitability of these data sets themselves. This is not a survey grade product and should not be used to define or establish survey boundaries.

**RAILROAD COMMISSION OF TEXAS**  
**Oil and Gas Division**

**ELECTRIC LOG**  
**STATUS REPORT**

**FORM L-1**

Tracking No.: 190775

*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: <b>XTO ENERGY INC.</b>	District No. <b>08</b>	Completion Date: <b>02/02/2018</b>
Field Name <b>TWO GEORGES (BONE SPRING)</b>	Drilling Permit No. <b>813661</b>	
Lease Name <b>UNIVERSITY BLK 20</b>	Lease/ID No. <b>42354</b>	Well No. <b>1310H</b>
County <b>WINKLER</b>	API No. <b>42- 495-33713</b>	

**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). \_\_\_\_\_

Tessa Fitzhugh

Signature

XTO ENERGY INC.

Name (print)

Regulatory Analyst

Title

(432) 620-4336

Phone

04/16/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 12 December 2016**GAU Number:** 164240**Attention:** XTO ENERGY INC.  
ATTN ALAN CODY  
FORT WORTH, TX 76102**API Number:** 49533710  
**County:** WINKLER  
**Lease Name:** UNIVERSITY BLK 20**Operator No.:** 945936**Lease Number:**  
**Well Number:** 1307H  
**Total Vertical Depth:** 12500  
**Latitude:** 31.726233  
**Longitude:** -103.285400  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U14; Block-20; Section-13

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 the base of the Allurosa, which is estimated to occur at a depth of 950 feet, must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

This recommendation is applicable for all wells drilled in this Section 13 on this Lease.

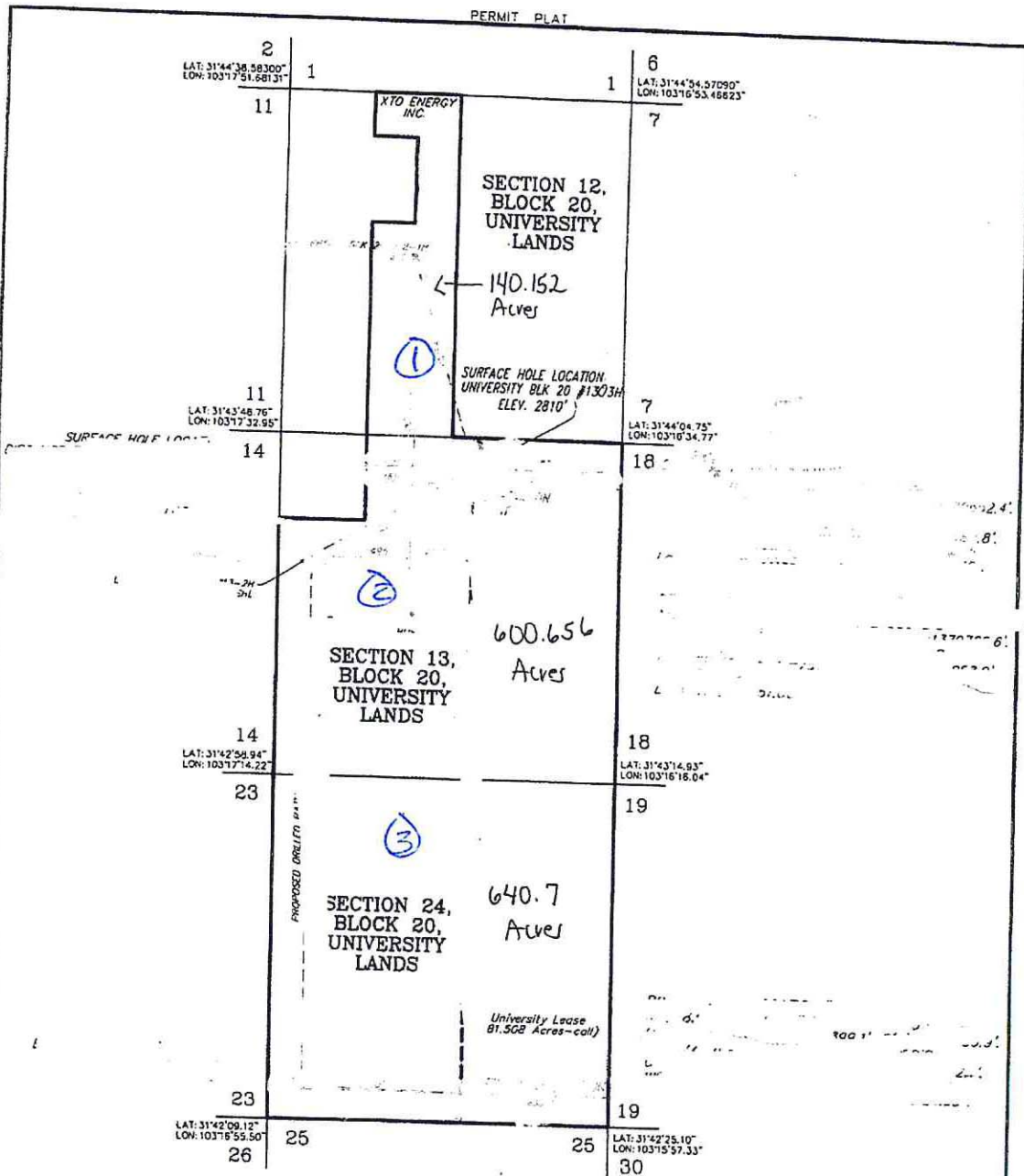
**Note:** Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 12/08/2016. 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



PERMIT PLAT



NOTE: THIS PERMIT PLAT HAS BEEN PREPARED FROM A CERTIFIED SURVEY PLAT ON FILE IN THE OFFICE OF JOHN F. WATSON & COMPANY, MIDLAND, TEXAS. APPROXIMATELY 7.4 MILES SOUTHWEST OF WINK, TEXAS

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE INFORMATION PRESENTED HEREON IS FOR THE PRIVATE USE OF THE PARTY NAMED IN THE "REFERENCE PORTION" OF THE TITLE BLOCK AND DOES NOT CONSTITUTE A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE "PROFESSIONAL LAND SURVEYING PRACTICES ACT."

*[Signature]*  
REGISTERED PROFESSIONAL LAND SURVEYOR  
DATE 10-05-2012

PERMIT PLAT

SCALE: 1" = 2000'

John F. Watson & Company

LAND & DEVELOPMENT SERVICES  
PROFESSIONAL LAND SURVEYORS  
200 N. Loraine, Ste. 230  
Midland, Texas 79701  
rwatson@windearthwater.com  
off: (432) 520-2400  
fax: (432) 520-2404  
mob: (432) 528-0174



XTO ENERGY, INC.  
UNIVERSITY BLK 20 #1303H  
SHL: 467' FNL & 2302' FEL - SECTION 13  
PP/TTL: 717' FNL & 2302' FEL - SECTION 13  
BHL/BTL: 467' FSL & 2302' FEL - SECTION 24  
BLOCK 20, UNIVERSITY LANDS, WINKLER COUNTY, TEXAS  
JOB NO.: 12-0188 FIELD BOOK 115/25 DRAFT KP DATE 10/5/12



0 1000' 2000'  
1" = 2000 FEET

UNIVERSITY LAND  
SECTION 14, BLOCK 20

UNIVERSITY LAND  
SECTION 12, BLOCK 20

UNIVERSITY LAND  
SECTION 7, BLOCK 21

UNIVERSITY LAND  
SECTION 18, BLOCK 21

UNIVERSITY LAND  
SECTION 19, BLOCK 21

UNIVERSITY LAND  
SECTION 23, BLOCK 20

UNIVERSITY LAND  
SECTION 13, BLOCK 20

UNIVERSITY LAND  
SECTION 24, BLOCK 20

UNIVERSITY LAND  
SECTION 25, BLOCK 20

UNIVERSITY LAND  
SECTION 30, BLOCK 21

#### LESSOR TABLE:

TRACT NO.	LESSOR	CALLED ACREAGE
1	State of Texas	140.152
2	State of Texas	600.656
3	State of Texas	640.700
	TOTAL	1381.508

#### GENERAL NOTES

- COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE 4203
- VERTICAL DATUM IS NAVD 88
- LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
- AREA, DISTANCES, AND COORDINATES ARE "GRID".
- UNITS ARE UNITED STATES SURVEY FOOT.
- ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

#### DRIVING DIRECTIONS TO LOCATION:

FROM WINK, HEAD WEST ON FARM TO MARKET 1232 FOR 1.5 MILES. THEN TURN LEFT (WEST) ONTO COUNTY ROAD 201 FOR 6.0 MILES AND THE LOCATION WILL BE APPROXIMATELY 200 FEET ON THE LEFT (SOUTH).



#### WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION:  
NAD 83, TEXAS CENTRAL ZONE COORD'S  
Y = 10,606,173.96, X = 1,380,625.95  
LAT: N 31.73300°, LONG: W 103.27983°  
SHL: 239' FNLL & 1,224' FEL  
SHL: 239' FNLL & 1,224' FELL

NAD 27, TEXAS CENTRAL ZONE COORD'S  
Y = 763,597.74, X = 1,084,161.71  
LAT: N 31.73287°, LONG: W 103.27938°

PP:  
NAD 83, TEXAS CENTRAL ZONE COORD'S  
Y = 10,606,329.39, X = 1,380,698.81  
LAT: N 31.73343°, LONG: W 103.27961°  
PP: 111' FNLL & 1,110' FELL

NAD 27, TEXAS CENTRAL ZONE COORD'S  
Y = 763,753.17, X = 1,084,234.57  
LAT: N 31.73330°, LONG: W 103.27916°

TOP PERF:  
NAD 83, TEXAS CENTRAL ZONE COORD'S  
Y = 10,600,030.24, X = 1,381,030.10

BOTTOM PERF:  
NAD 83, TEXAS CENTRAL ZONE COORD'S  
Y = 10,596,591.79, X = 1,383,228.79  
LAT: N 31.70685°, LONG: W 103.27065°  
BP: 1411' FELL & 407' FSLL

NAD 27, TEXAS CENTRAL ZONE COORD'S  
Y = 754,015.70, X = 1,086,764.43  
LAT: N 31.70672°, LONG: W 103.27020°

BOTTOM HOLE LOCATION:  
NAD 83, TEXAS CENTRAL ZONE COORD'S  
Y = 10,596,406.90, X = 1,383,319.90  
LAT: N 31.70635°, LONG: W 103.27034°  
BHL: 204' FSLL & 1376' FEL  
BHL: 204' FSLL & 1376' FELL

NAD 27, TEXAS CENTRAL ZONE COORD'S  
Y = 753,830.82, X = 1,086,855.54  
LAT: N 31.70622°, LONG: W 103.26989°

SURFACE HOLE LOCATION  
UNIVERSITY BLK 20 #1310H  
ELEV. 2812'

BOTTOM PERF

BOTTOM HOLE LOCATION