

API No. <u>42-495-33822</u> Drilling Permit # <u>824380</u> SWR Exception Case/Docket No. <u>0304248</u> (R37)		RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>				FORM W-1 Permit Status: Approved	
1. RRC Operator No. <div style="text-align: center;">945936</div>		2. Operator's Name (as shown on form P-5, Organization Report) <div style="text-align: center;">XTO ENERGY INC.</div>			3. Operator Address (include street, city, state, zip) ATTN DEEANN KEMP 500 WEST ILLINOIS STE 100 MIDLAND, TX 79701-0000		
4. Lease Name <div style="text-align: center;">UNIVERSITY BLK 21</div>			5. Well No. <div style="text-align: center;">1810H</div>				
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL)(Also File Form W-1D) </div>							
7. Wellbore Profile (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack </div>							
8. Total Depth <div style="text-align: center;">12500</div>		9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. <div style="text-align: center;">08</div>		12. County <div style="text-align: center;">WINKLER</div>		13. Surface Location <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore </div>			
14. This well is to be located <u>6.0</u> miles in a <u>W</u> direction from <u>Wink</u> which is the nearest town in the county of the well site.							
15. Section <div style="text-align: center;">18</div>	16. Block <div style="text-align: center;">21</div>	17. Survey <div style="text-align: center;">UNIVERSITY LANDS</div>	18. Abstract No.	19. Distance to nearest lease line: <u>275.0</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>640.7</u>		
21. Lease Perpendiculars: <u>275.0</u> ft. from the <u>NORTH</u> line and <u>379.0</u> ft. from the <u>EAST</u> line.							
22. Survey Perpendiculars: <u>275.0</u> ft. from the <u>NORTH</u> line and <u>379.0</u> ft. from the <u>EAST</u> line.							
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No			
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.							
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir	
08	92100050	TWO GEORGES (BONE SPRING)	Oil Well	11000	91.0	10	
08	71052900	PHANTOM (WOLFCAMP)	Oil or Gas Well	11000	91.0	6	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS							
Remarks <div style="height: 100px;"></div>				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge <div style="display: flex; justify-content: space-between;"> <div> RRC User Name of filer _____ Phone _____ </div> <div> 03/11/2017 Date Submitted _____ Email Address(OPTIONAL) _____ </div> </div>			
RRC Use Only Date Validation Time Stamp: Wed, 23 Aug 2017 10:35:41							

RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 824380	DATE PERMIT ISSUED OR AMENDED 04/17/2017	DISTRICT 08
API NUMBER 42-495-33822	FORM W-1 RECEIVED 03/11/2017	COUNTY WINKLER
TYPE OF OPERATION New Drill	WELLBORE PROFILE(S) Horizontal	ACRES 640.7
OPERATOR XTO ENERGY INC. ATTN DEEANN KEMP 500 WEST ILLINOIS STE 100 MIDLAND, TX 79701-0000		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581
LEASE NAME UNIVERSITY BLK 21		WELL NUMBER 1810H
LOCATION 6.0 miles W direction from Wink		TOTAL DEPTH 12500
Section, Block and/or Survey SECTION 18 BLOCK 21 ABSTRACT SURVEY UNIVERSITY LANDS		
DISTANCE TO SURVEY LINES 275.0 ft NORTH 379.0 ft EAST		DISTANCE TO NEAREST LEASE LINE 275.0
DISTANCE TO LEASE LINES 275.0 ft NORTH 379.0 ft EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below

FIELD(s) and LIMITATIONS:

* SEE FIELD DISTRICT FOR REPORTING PURPOSES *

** THIS PERMIT IS GRANTED PURSUANT TO STATEWIDE RULE 37(h)(2)(A) ** CASE NO 0304248

FIELD NAME	ACRES	DEPTH	WELL#	DIST
LEASE NAME	NEAREST LEASE		NEAREST WELL	
** TWO GEORGES (BONE SPRING)	640.7	11000	1810H	08
UNIVERSITY BLK 21	275.0		91.0	
WELLBORE PROFILE(s) FOR FIELD: Horizontal				

Terminus Point: TH1 Section: 18 Block: 21 Abstract: Survey: UNIVERSITY LANDS BH County: WINKLER

Lease Lines: 200.0 ft SOUTH 380.0 ft EAST

Survey Lines: 200.0 ft SOUTH 380.0 ft EAST

Penetration Lines: 875.0 ft NORTH 380.0 ft EAST

This is a hydrogen sulfide field. This well shall be drilled in accordance with SWR 36.

PHANTOM (WOLFCAMP)	640.7	11000	1810H	08
UNIVERSITY BLK 21	275.0		91.0	
WELLBORE PROFILE(s) FOR FIELD: Horizontal				

Terminus Point: TH1 Section: 18 Block: 21 Abstract: Survey: UNIVERSITY LANDS BH County: WINKLER

Lease Lines: 200.0 ft SOUTH 380.0 ft EAST

Survey Lines: 200.0 ft SOUTH 380.0 ft EAST

Penetration Lines: 875.0 ft NORTH 380.0 ft EAST

This is a hydrogen sulfide field. This well shall be drilled in accordance with SWR 36.

'**' PRECEDING FIELD NAME INDICATES RULE (R37)

THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS

This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.

This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.

The designated interval for one or more of the fields approved in this permit appears to overlap with the designated interval of another field or fields in this district. In the case of conflicting designated intervals you will be required to be consistent in field designation on this lease.

Further, if the designated interval overlap of wells on this lease results in an actual or potential double assignment of reservoir and the applicant cannot conclusively demonstrate that there is no double assignment, the permitted well may not be assigned an allowable until the conflict is resolved. Because of the overlapping designated intervals in this area, issuance of this permit does not guarantee that the completion of the well will be approved or that the well will receive an allowable in any given field, even if that field is listed on the approved permit application.

Railroad Commission of Texas
Oil and Gas Division
SWR #13 Formation Data
WINKLER (495) COUNTY

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	725	725	possible flow; possible usable quality water	1	01/01/2014
COLBY-QUEEN	2900	3200		2	01/01/2014
YATES	2280	3200		3	01/01/2014
QUEEN-SEVEN RIVERS	2700	3400		4	01/01/2014
SAN ANDRES	3600	4400	high flows, H2S, corrosive	5	01/01/2014
HOLT	4500	4800		6	01/01/2014
DELAWARE	4300	5000		7	01/01/2014
GLORIETA	4900	5600		8	01/01/2014
CLEARFORK	4750	6200		9	01/01/2014
WICHITA ALBANY	6600	6850		10	01/01/2014
BRUSHY CANYON	7300	7300		11	01/01/2014
CHERRY CANYON	6000	7800		12	01/01/2014
CANYON	8400	8400		13	01/01/2014
BONE SPRINGS	9000	9800		14	01/01/2014
MONTOYA	10300	10300		15	01/01/2014
WADDELL	11000	11000		16	01/01/2014
WOLFCAMP	7600	12400		17	01/01/2014
ATOKA	12900	12900		18	01/01/2014
STRAWN	8100	14800		19	01/01/2014
PENNSYLVANIAN	8000	15500		20	01/01/2014
MISSISSIPPIAN	10200	17300		21	01/01/2014
DEVONIAN	7900	17800		22	01/01/2014
SILURIAN	8500	18000		23	01/01/2014
FUSSELMAN	9700	18800		24	01/01/2014
ELLENBURGER	9500	21400		25	01/01/2014

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information. <http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 25 August 2015**GAU Number:** 14009**Attention:** XTO ENERGY INC.
ATTN TIMOTHY E WELCH
FORT WORTH, TX 76102**Operator No.:** 945936**API Number:** 49533684
County: WINKLER
Lease Name: UNIVERSITY BLK 21
Lease Number:
Well Number: 1823H
Total Vertical Depth: 14000
Latitude: 31.736583
Longitude: -103.265402
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U58; Block-21; Section-18

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 300 feet must be protected.

This recommendation is applicable for all wells drilled in this Section 18 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 08/25/2015. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

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



0 500' 1000'
1" = 1000 FEET

UNIVERSITY LAND
SECTION 12, BLOCK 20

UNIVERSITY LAND
SECTION 7, BLOCK 21

SURFACE HOLE LOCATION
UNIVERSITY BLK 21 #1810H
ELEV. 2827'

UNIVERSITY LAND
SECTION 17, BLOCK 21

UNIVERSITY LAND
SECTION 13, BLOCK 20

UNIVERSITY LAND
SECTION 19, BLOCK 21

XTO ENERGY INC.
UNIVERSITY BLK 21
640.7 CALLED ACRES

GENERAL NOTES

1. COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE 4203
2. VERTICAL DATUM IS NAVD 88
3. LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
4. AREA, DISTANCES, AND COORDINATES ARE "GRID".
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. 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 4.8 MILES AND THE LOCATION WILL BE APPROXIMATELY 240 FEET ON THE LEFT (SOUTH).

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT SURFACE LOCATION AS STAKED ON THE GROUND.

BRAD CARDINAL
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 6406



FRANK
SURVEYING COMPANY INC
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPLS Firm No. 10193887
www.franksurveying.com
LAND SURVEYING/ENERGY/GIS SERVICES
© COPYRIGHT 2014 - ALL RIGHTS RESERVED

WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,607,858.92, X = 1,386,516.24
LAT: N 31.73805°, LONG: W 103.26103°
SHL: 379' FEL & 275' FNLL
SHL: 379' FELL & 275' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 765,282.71, X = 1,090,051.97
LAT: N 31.73793°, LONG: W 103.26058°

TP1/PP LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,607,282.95, X = 1,386,684.39
LAT: N 31.73648°, LONG: W 103.26044°
TP1/PP: 380' FELL & 875' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 764,706.75, X = 1,090,220.11
LAT: N 31.73635°, LONG: W 103.25999°

BOTTOM HOLE LOCATION/TP2:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,603,239.11, X = 1,387,864.58
LAT: N 31.72546°, LONG: W 103.25630°
BHL/TP2: 200' FSL & 380' FEL
BHL/TP2: 200' FSLL & 380' FELL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 760,662.96, X = 1,091,400.25
LAT: N 31.72533°, LONG: W 103.25586°

PLAT OF:
A WELL LOCATION FOR:
XTO ENERGY INC.
UNIVERSITY BLK 21 #1810H

SITUATED IN THE UNIVERSITY LAND, SECTION 18, BLOCK 21, BEING APPROXIMATELY 6.0 MILES WEST OF WINK IN WINKLER COUNTY, TEXAS.

DATE: 01/28/2016
DRAWN BY: BLC/AI
CHECKED BY: BC/AP
FIELD CREW: DC/BK
PROJECT NO: 2015121245
SCALE: 1" = 1000'
SHEET: 1
REVISION: 1