

API No. <u>42-495-33710</u> Drilling Permit # <u>813658</u> SWR Exception Case/Docket No. _____		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 07/2004 Permit Status: Approved	
1. RRC Operator No. 945936		2. Operator's Name (as shown on form P-5, Organization Report) XTO ENERGY INC.		3. Operator Address (include street, city, state, zip): ATTN DEEANN KEMP 500 WEST ILLINOIS STE 100 MIDLAND, TX 79701-0000			
4. Lease Name UNIVERSITY BLK 20		5. Well No. 1307H					
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input checked="" type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)							
7. Wellbore Profile (mark ALL appropriate boxes): <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							
8. Total Depth 12500		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. 08		12. County WINKLER		13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore			
14. This well is to be located <u>7.6</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 13		16. Block 20		17. Survey UL		18. Abstract No. A-U14	
				19. Distance to nearest lease line: 200 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 1381.51	
21. Lease Perpendiculars: <u>5268</u> ft from the <u>NORTH</u> line and <u>1536</u> ft from the <u>EAST</u> line. 22. Survey Perpendiculars: <u>1963</u> ft from the <u>NORTH</u> line and <u>1536</u> ft from the <u>WEST</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	
08	92100050	TWO GEORGES (BONE SPRING)		Oil Well	12500	124.00	
08	71052900	PHANTOM (WOLFCAMP)		Oil Well	12500	203.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks See W1 Comments attached				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. Stephanie Rabadue, Regulatory Analyst Name of filer <u>Nov 04, 2016</u> Date submitted			
				(432)6206714 <u>Stephanie_Rabadue@xtoenergy.com</u> Phone E-mail Address (OPTIONAL)			
RRC Use Only Data Validation Time Stamp: Nov 18, 2016 6:10 AM(Current Version)							

Permit Status:	Approved
<i>The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.</i>	

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

Form W-1H 07/2004
Supplemental Horizontal Well Information

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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Permit #	813658
Approved Date:	Nov 17, 2016

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Lateral Drainhole Location Information

5. Field as shown on Form W-1 TWO GEORGES (BONE SPRING) (Field # 92100050, RRC District 08)

6. Section 24	7. Block 20	8. Survey UL / A-U21	9. Abstract	10. County of BHL WINKLER
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11. Terminus Lease Line Perpendiculars 200 ft. from the South line. and 1526 ft. from the West line
12. Terminus Survey Line Perpendiculars 200 ft. from the South line. and 1526 ft. from the West line
13. Penetration Point Lease Line Perpendiculars 6052 ft. from the North line. and 1526 ft. from the West line

5. Field as shown on Form W-1 PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)

6. Section 20	7. Block 24	8. Survey UL / A-U21	9. Abstract	10. County of BHL WINKLER
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OIL & GAS DIVISION**

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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W-1 Comments

Permit # **813658**

Approved Date: **Nov 17, 2016**

[FILER Nov 4, 2016 7:47 AM]: Amending permit to add 2nd Field. No other changes.; [RRC STAFF Nov 10, 2016 12:13 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 16, 2016 10:46 AM]: Problems identified with this permit are resolved.; [RRC STAFF Nov 16, 2016 10:54 AM]: Stephanie Rabadue provided a revised plat, on which the correct nearest well distance for the Phantom (Wolfcamp) field is shown. Two Georges well count has been confirmed at 8. Phantom well count reflects the original permit (P-16 shows current conditions), as this field is amended, the Two Georges was added.; [RRC STAFF Nov 16, 2016 12:36 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 16, 2016 12:41 PM]: Changed BHL survey information to match RRC GIS.; [RRC STAFF Nov 16, 2016 12:56 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 17, 2016 8:30 AM]: Revised P16 attached.; [RRC STAFF Nov 17, 2016 8:38 AM]: Problems identified with this permit are resolved.; [RRC STAFF Nov 17, 2016 8:38 AM]: P12 plat attached.

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 813658	DATE PERMIT ISSUED OR AMENDED (AMENDED) Nov 17, 2016	DISTRICT * 08	
API NUMBER 42-495-33710	FORM W-1 RECEIVED Nov 04, 2016	COUNTY WINKLER	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 1381.51	
OPERATOR XTO ENERGY INC. ATTN DEEANN KEMP 500 WEST ILLINOIS STE 100 MIDLAND, TX 79701-0000		945936 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 20		WELL NUMBER 1307H	
LOCATION 7.6 miles W direction from WINK		TOTAL DEPTH 12500	
Section, Block and/or Survey SECTION ◀ 13 BLOCK ◀ 20 ABSTRACT ◀ U14 SURVEY ◀ UL			
DISTANCE TO SURVEY LINES 1963 ft. NORTH 1536 ft. WEST		DISTANCE TO NEAREST LEASE LINE 200 ft.	
DISTANCE TO LEASE LINES 5268 ft. NORTH 1536 ft. EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below	
FIELD(s) and LIMITATIONS: <p style="text-align: center;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>			
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE DIST

TWO GEORGES (BONE SPRING)	1381.51	12,500	1307H 08
UNIVERSITY BLK 20	200		124

WELLBORE PROFILE(s) FOR FIELD: Horizontal			

RESTRICTIONS: The designated interval, for one or more of the fields approved on 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. This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production. Lateral: TH1 Penetration Point Location Lease Lines: 6052.0 F NORTH L 1526.0 F WEST L Terminus Location BH County: WINKLER Section: 24 Block: 20 Abstract:			

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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.																	

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OIL & GAS DIVISION

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**RAILROAD COMMISSION OF TEXAS
OIL & 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	12/17/2013
COLBY-QUEEN	2,900	3,200		2	12/17/2013
YATES	2,280	3,200		3	12/17/2013
QUEEN-SEVEN RIVERS	2,700	3,400		4	12/17/2013
SAN ANDRES	3,600	4,400	high flows, H2S, corrosive	5	12/17/2013
HOLT	4,500	4,800		6	12/17/2013
DELAWARE	4,300	5,000		7	12/17/2013
GLORIETA	4,900	5,600		8	12/17/2013
CLEARFORK	4,750	6,200		9	12/17/2013
WICHITA ALBANY	6,600	6,850		10	12/17/2013
BRUSHY CANYON	7,300	7,300		11	12/17/2013
CHERRY CANYON	6,000	7,800		12	12/17/2013
CANYON	8,400	8,400		13	12/17/2013
BONE SPRINGS	9,000	9,800		14	12/17/2013
MONTOYA	10,300	10,300		15	12/17/2013
WADDELL	11,000	11,000		16	12/17/2013
WOLFCAMP	7,600	12,400		17	12/17/2013
ATOKA	12,900	12,900		18	12/17/2013
STRAWN	8,100	14,800		19	12/17/2013
PENNSYLVANIAN	8,000	15,500		20	12/17/2013
MISSISSIPPIAN	10,200	17,300		21	12/17/2013
DEVONIAN	7,900	17,800		22	12/17/2013
SILURIAN	8,500	18,000		23	12/17/2013
FUSSELMAN	9,700	18,800		24	12/17/2013
ELLENBURGER	9,500	21,400		25	12/17/2013

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>



0 1000' 2000'
1" = 2000 FEET

SURFACE HOLE LOCATION
UNIVERSITY BLK 20 #1307H
ELEV. 2813'

UNIVERSITY LAND
SECTION 14, BLOCK 20

UNIVERSITY LAND
SECTION 23, BLOCK 20

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

UNIVERSITY LAND
SECTION 26, BLOCK 20

UNIVERSITY LAND
SECTION 12, BLOCK 20

UNIVERSITY LAND
SECTION 7, BLOCK 21

UNIVERSITY LAND
SECTION 18, BLOCK 21

UNIVERSITY LAND
SECTION 13, BLOCK 20

UNIVERSITY LAND
SECTION 19, BLOCK 21

UNIVERSITY LAND
SECTION 24, BLOCK 20

UNIVERSITY LAND
SECTION 30, BLOCK 21

UNIVERSITY LAND
SECTION 25, BLOCK 20

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 6.8 MILES AND TURN LEFT (SOUTH) ON LEASE ROAD. HEAD SOUTH ON LEASE ROAD FOR 0.4 MILES AND TURN LEFT (EAST) ON LEASE ROAD. HEAD EAST ON LEASE ROAD FOR 0.3 MILES AND THE LOCATION WILL BE APPROXIMATELY 600 FEET ON THE LEFT (NORTH).

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

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 6445



WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,603,812.11, X = 1,378,690.93
LAT: N 31.72636°, LONG: W 103.28585°
SHL: 1536' FWL & 1963' FNL
SHL: 1536' FWLL & 5268' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 761,235.91, X = 1,082,226.69
LAT: N 31.72624°, LONG: W 103.28540°

TP1/PP LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,603,056.65, X = 1,378,901.10
LAT: N 31.72430°, LONG: W 103.28511°
TP1/PP: 1526' FWLL & 6052' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 760,480.46, X = 1,082,436.85
LAT: N 31.72418°, LONG: W 103.28466°

BOTTOM HOLE LOCATION/TP2:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,595,735.68, X = 1,381,040.31
LAT: N 31.70434°, LONG: W 103.27761°
BHL/TP2: 200' FSL & 1526' FWL
BHL/TP2: 200' FSL & 1526' FWL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 753,159.59, X = 1,084,575.96
LAT: N 31.70421°, LONG: W 103.27716°

PLAT OF:
A PROPOSED WELL LOCATION FOR:
XTO ENERGY INC.

UNIVERSITY BLK 20 #1307H

SITUATED IN THE UNIVERSITY LAND, SECTION 13, BLOCK 20, AND UNIVERSITY LAND, SECTION 24, BLOCK 20 BEING APPROXIMATELY 7.6 MILES WEST OF WINK IN WINKLER COUNTY, TEXAS.



550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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DATE: 11-2-2016
DRAWN BY: BLC/AI
CHECKED BY: AP/CH/JK
FIELD CREW: DC/BK
PROJECT NO: 2015121235
SCALE: 1" = 2000'
SHEET: 1
REVISION: 2