

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 085 21285

Approval Date: 04/09/2018
Expiration Date: 10/09/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 7S Rge: 1W County: LOVE
SPOT LOCATION: SE NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 345 1425

Lease Name: TURKEY RIDGE Well No: 1-12H13X24 Well will be 345 feet from nearest unit or lease boundary.
Operator Name: XTO ENERGY INC Telephone: 8178853346; 8178852 OTC/OCC Number: 21003 0

XTO ENERGY INC
810 HOUSTON ST
FORT WORTH, TX 76102-6203

WARREN EDWARD STRATE
17559 DIXON ROAD
MARIETTA OK 73448

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	CANEY	13266	6	
2	WOODFORD	14110	7	
3	HUNTON	14302	8	
4			9	
5			10	

Spacing Orders: 626845

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708214
201708215
201800218
201800217

Special Orders:

Total Depth: 27000

Ground Elevation: 896

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 610

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: AIR

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: GOODLAND/WALNUT

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34218

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: GOODLAND/WALNUT

PIT 3 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: GOODLAND/WALNUT

HORIZONTAL HOLE 1

Sec 24 Twp 7S Rge 1W County LOVE

Spot Location of End Point: SE SE NW NE

Feet From: NORTH 1/4 Section Line: 1275

Feet From: EAST 1/4 Section Line: 1575

Depth of Deviation: 13750

Radius of Turn: 1000

Direction: 181

Total Length: 11679

Measured Total Depth: 27000

True Vertical Depth: 14302

End Point Location from Lease,
Unit, or Property Line: 1275

Notes:

Category	Description
DEEP SURFACE CASING	3/30/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

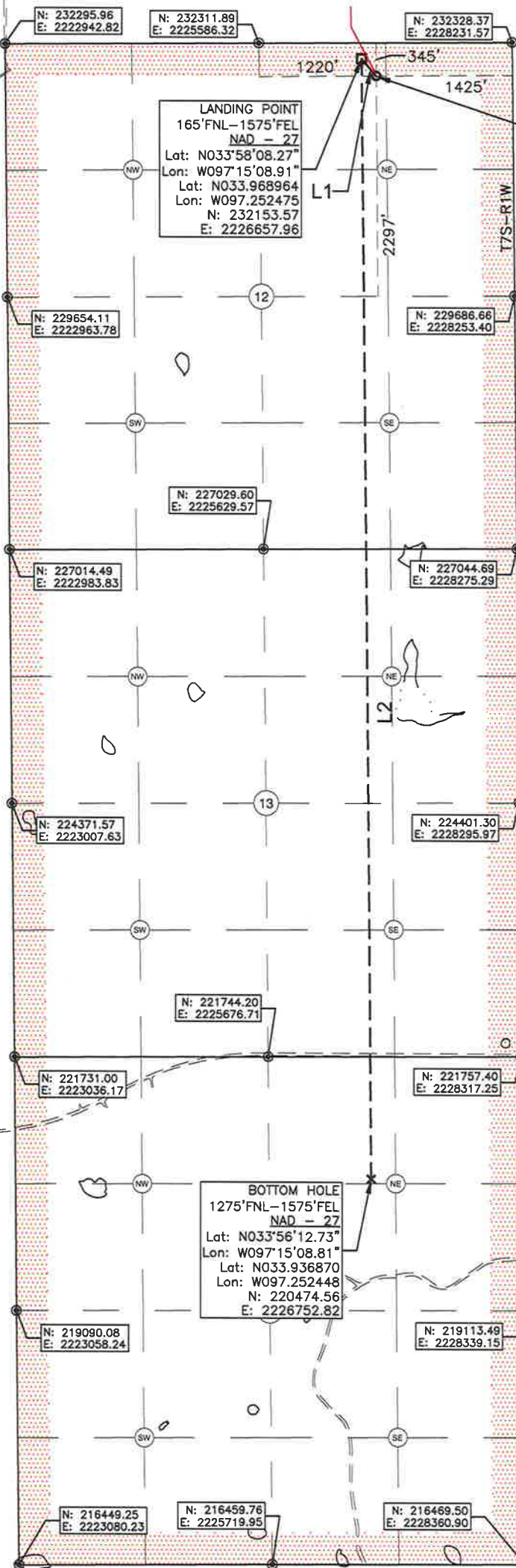
This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
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Category	Description
HYDRAULIC FRACTURING	<p>3/30/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;</p> <p>2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG</p>
MEMO	3/30/2018 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201708214	<p>4/2/2018 - G57 - (640) 13-7S-1W VAC 166569 WDFD, HNTN EXT 626845 CNEY, WDFD, HNTN EST OTHER REC 3-27-2018 (MILLER)</p>
PENDING CD - 201708215	<p>4/2/2018 - G57 - (640) 24-7S-1W VAC 166569 WDFD, HNTN, OTHER EXT 629534 CNEY, WDFD, HNTN, OTHER REC 3-27-2018 (MILLER)</p>
PENDING CD - 201800217	<p>4/2/2018 - G57 - (I.O.)12, 13, 24-7S-1W EST MULTIUNIT HORIZONTAL WELL X626845 CNEY, WDFD, HNTN 12-7S-1W X201708214 CNEY, WDFD, HNTN 13-7S-1W X201708215 CNEY, WDFD, HNTN 24-7S-1W (CNEY, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 44% 12-7S-1W 45% 13-7S-1W 11% 24-7S-1W XTO ENERGY, INC. REC 3-27-2018 (MILLER)</p>
PENDING CD - 201800218	<p>4/2/2018 - G57 - (I.O.) 12, 13, 24-7S-1W X626845 CNEY, WDFD, HNTN 12-7S-1W X201708214 CNEY, WDFD, HNTN 13-7S-1W X201708215 CNEY, WDFD, HNTN 24-7S-1W SHL (12-7S-1W) 345' FNL, 1425' FEL COMPL. INT. (12-7S-1W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (13-7S-1W) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (24-7S-1W) NCT 0' FNL, NCT 2640' FNL, NCT 330' FEL NO OP. NAMED REC 3-27-2018 (MILLER)</p>
SPACING - 626845	<p>4/2/2018 - G57 - (640) 12-7S-1W EXT 620535 CNEY, WDFD, HNTN</p>

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
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TURKEY RIDGE
1-12H13X24

SECTION 12
TOWNSHIP 7 SOUTH, RANGE 1 WEST
LOVE COUNTY, OKLAHOMA



SURFACE LOCATION
345' FNL - 1425' FEL
NAD - 27
Lat: N033°58'06.49"
Lon: W097°15'07.13"
Lat: N033.968469
Lon: W097.251980
N: 231974.51
E: 2226809.45

LANDING POINT
165' FNL - 1575' FEL
NAD - 27
Lat: N033°58'08.27"
Lon: W097°15'08.91"
Lat: N033.968964
Lon: W097.252475
N: 232153.57
E: 2226657.96

BOTTOM HOLE
1275' FNL - 1575' FEL
NAD - 27
Lat: N033°56'12.73"
Lon: W097°15'08.81"
Lat: N033.936870
Lon: W097.252448
N: 220474.56
E: 2226752.82



OPERATOR:



LEGEND:

- EXISTING WELL HEAD/PRODUCTION WELL
- PROPOSED SURFACE HOLE (PSHL)
- SECTION CORNER
- PROPOSED LANDING POINT (LP)
- PROPOSED BOTTOM HOLE (PBHL)
- EXISTING WELL BORE
- PROPOSED WELL BORE
- SUBJECT WELL BORE
- DRILLING UNIT

Line Table		
Line #	Azimuth	Length
L1	319.768973	234.54
L2	179.534654	11679.39



NOTES:
1. This survey does not represent a boundary survey. It is for Geographical Information Systems (GIS) purposes only as instructed by the client and is not to be relied upon for the establishment of fences, buildings or other further improvement lines. Positions were taken with Survey Grade RTK GPS and NGS OPUS processed control using the NAD27 Oklahoma South State Plane Coordinate System.
2. Bottom hole information provided by operator listed, not surveyed and corner coordinates are taken from points surveyed in field.

Surface Hole Location: 345' From North Line Section 12
1425' From East Line Section 12

Latitude: N33.968469° (NAD 27)
Longitude: W97.251980° (NAD 27)
Latitude: N33.968569° (NAD 83)
Longitude: W97.252273° (NAD 83)

Ground Elev: 895.99

Landing Point Location: 165' From North Line Section 12
1575' From East Line Section 12

Bottom Hole Location: 1275' From North Line Section 24
1575' From East Line Section 24

Drilling Unit: Section 12, 13, & 24, T7S, R1W

Operator: XTO Energy, Inc.
Best Accessibility to Location: From North
Distance & Direction from Hwy Jct or Town:
From the intersection of Hwy 32 and Eastman Rd, go North 3.0mi on Eastman Rd, then 1.0mi east to Dixon Rd, then 1.1mi East to Access Rd, Well Location to the South.

I, Chad Fox, a duly registered Professional Land Surveyor in the State of OKLAHOMA, do hereby certify that the drawing shown hereon was completed and represents a good and accurate survey made upon the ground by me or under my direct supervision.
CHAD FOX P.L.S. NO. 1758
EX. DATE: 31JAN18 C.O.A. NO. 6186



CDF AND ASSOCIATES, LLC.
208 Dewey Ave. Poteau, OK 74953 (918) 649-3303
Certificate of Authorization No. 6186

JOB NO: XTO/WP18/TURKEYRIDGE1-12H13X24 DRAWN BY: LD
DATE: 07/JAN/18 REV: A SCALE: 1" = 1,500' SHT NO. 1