

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

API NUMBER: 085 21286

Approval Date: 04/19/2018

Expiration Date: 10/19/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 7S Rge: 1E

County: LOVE

SPOT LOCATION: NW SW NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 900 1030

Lease Name: BONE VALLEY

Well No: 1-24H13X12

Well will be 900 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

JOHN & VIRGINIA BONE
13363 INDIAN TRAILS ROAD
MARIETTA OK 73448

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

Name	Depth	Name	Depth
1 WOODFORD	15950	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 646398
621784
636780

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201801424
201801426
201801423

Special Orders:

Total Depth: 25820

Ground Elevation: 827

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 190

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: CADDO

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 18-34089

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: CADDO

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: CADDO

HORIZONTAL HOLE 1

Sec 12 Twp 7S Rge 1E County LOVE

Spot Location of End Point: NW NE NE SE

Feet From: SOUTH 1/4 Section Line: 2530

Feet From: EAST 1/4 Section Line: 525

Depth of Deviation: 15451

Radius of Turn: 1163

Direction: 3

Total Length: 8542

Measured Total Depth: 25820

True Vertical Depth: 16100

End Point Location from Lease,
Unit, or Property Line: 525

Notes:

Category	Description
DEEP SURFACE CASING	3/29/2018 - 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.
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.

Category	Description
HYDRAULIC FRACTURING	3/29/2018 - G71 - OCC 165:10-3-10 REQUIRES: 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; 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, 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
MEMO	3/29/2018 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201801423	4/13/2018 - G56 - (I.O.) 24 ,13, 12-7S-1E EST MULTIUNIT HORIZONTAL WELL X646398 WDFD 12-7S-1E X621784 WDFD 13-7S-1E X636780 WDFD 24-7S-1E 30% 12-7S-1E 62% 13-7S-1E 8% 24-7S-1E NO OP. NAMED REC 3-12-2018 (THOMAS)
PENDING CD - 201801424	4/13/2018 - G56 - (I.O.) 24, 13, 12-7S-1E X646398 WDFD 12-7S-1E X621784 WDFD 13-7S-1E X636780 WDFD 24-7S-1E SHL (24-7S-1E) 900' FNL, 1030' FEL COMPL. INT. (24-7S-1E) NFT 2640' FNL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (13-7S-1E) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (12-7S-1E) NCT 0' FSL, NCT 660' FSL, NCT 330' FEL NO OP. NAMED REC 3-12-2018 (THOMAS)
PENDING CD - 201801426	4/13/2018 - G56 - 12-7S-1E X646398 WDFD 1 WELL XTO ENERGY, INC. REC. 3/12/18
SPACING - 621784	4/13/2018 - G56 - (640) 13-7S-1E EXT. 606743 WDFD, OTHERS
SPACING - 636780	4/13/2018 - G56 - (640) 24-7S-1E EST. WDFD, OTHERS
SPACING - 646398	4/13/2018 - G56 - (640) 12-7S-1E EXT. 621784 WDFD, OTHERS

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.

BONE VALLEY
1-24H13X12

SECTION 24
TOWNSHIP 7 SOUTH, RANGE 1 EAST
LOVE COUNTY, OKLAHOMA



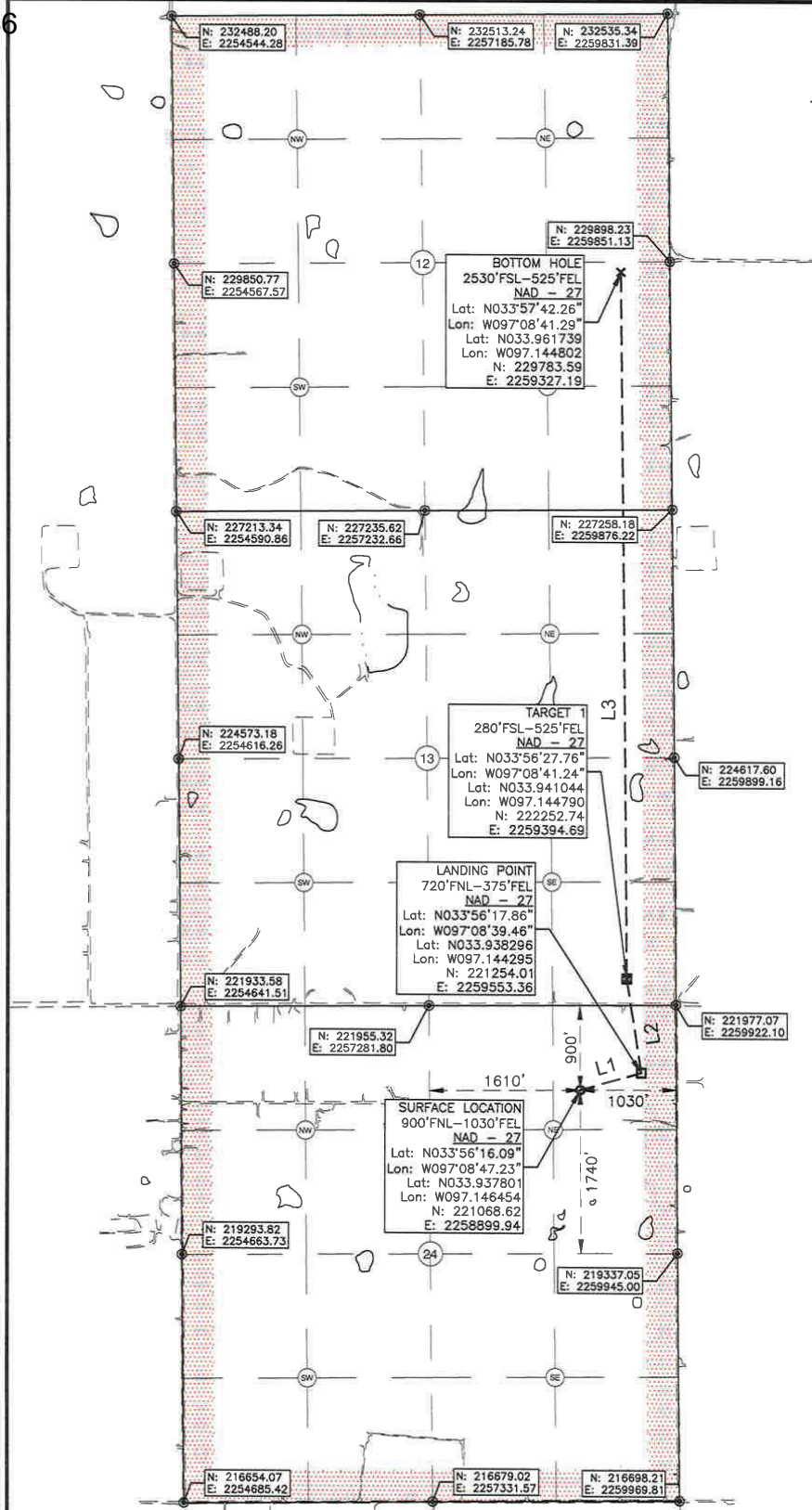
LEGEND:

- EXISTING WELL HEAD/PRODUCTION WELL
- PROPOSED SURFACE HOLE (PSHL)
- SECTION CORNER
- PROPOSED LANDING POINT (LP)
- PROPOSED TARGET 1 (T1)
- PROPOSED BOTTOM HOLE (PBHL)
- EXISTING WELL BORE
- PROPOSED WELL BORE
- SUBJECT WELL BORE
- DRILLING UNIT

Line Table		
Line #	Azimuth	Length
L1	074.160203	679.21
L2	350.972608	1011.25
L3	359.486526	7531.15



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 US OFUS 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: 900' From North Line Section 24
1030' From East Line Section 24

Latitude: N33.937801° (NAD 27)
Longitude: W97.146454° (NAD 27)
Latitude: N33.937902° (NAD 83)
Longitude: W97.146745° (NAD 83)

Ground Elev: 827.1

Landing Point Location: 720' From North Line Section 24
375' From East Line Section 24

Target 1: 280' From South Line Section 13
525' From East Line Section 13

Bottom Hole Location: 2530' From South Section 12
525' From East Line Section 12

Drilling Unit: Section 12,13&24, T7S, R1E

Operator: XTO Energy, Inc.

Best Accessibility to Location: From South & West

Distance & Direction from Hwy Jct or Town:
From the Intersection of Hwy 32 and Interstate 35 go West 0.5mi on Hwy 32 to Peanut Rd. then 0.3mi South to Access Rd. Well Location to the West & North.

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 1/29/18

CHAD FOX P.L.S., NO 1758
EX. DATE: 31JAN20 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/WP13/BONEVALLEY1-24H13X12 DRAWN BY: LD
DATE: 25/JAN/18 REV: A SCALE: 1" = 1,500' SHT NO. 1