

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

API NUMBER: 085 21303

Approval Date: 04/11/2019

Expiration Date: 10/11/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 7S Rge: 1E

County: LOVE

SPOT LOCATION: ☐ SE ☐ NE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 797 167

Lease Name: ROSE RANCH

Well No: 1-17H16X21X28

Well will be 167 feet from nearest unit or lease boundary.

Operator Name: XTO ENERGY INC

Telephone: 4053193208; 8178852

OTC/OCC Number: 21003 0

XTO ENERGY INC
22777 SPRINGWOODS VILLAGE PKWY
SPRING, TX 77389-1425

SHORT MCCARTY LIMITED FAMILY PARTNERSHIP
911 SOUTH WILSON AVENUE
BOZEMAN MT 59715

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

	Name	Depth	Name	Depth
1	GODDARD	12365	6	
2	CANEY	14038	7	
3	WOODFORD	14597	8	
4			9	
5			10	

Spacing Orders: 622294
623686
623515

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901375
201901376
201901374

Special Orders:

Total Depth: 25350

Ground Elevation: 759

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 440

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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

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

PERMIT NO: 19-36282

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: 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 28 Twp 7S Rge 1E County LOVE

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 100

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 13625

Radius of Turn: 1000

Direction: 175

Total Length: 10154

Measured Total Depth: 25350

True Vertical Depth: 14597

End Point Location from Lease,
Unit, or Property Line: 100

Notes:

Category

Description

DEEP SURFACE CASING

4/10/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

4/9/2019 - 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

4/9/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201901374

4/11/2019 - G75 - (640) 16, 21 & 28-7S-1E
EXT 119140 GDRD
REC 3-25-2019 (P. PORTER)

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.

085 21303 ROSE RANCH 1-17H16X21X28

Category	Description
PENDING CD - 201901375	4/11/2019 - G75 - (I.O.) 16, 21 & 28-7S-1E EST MULTIUNIT HORIZONTAL WELL X622294 CNEY, WDFD 16-7S-1E X623686 CNEY, WDFD 21-7S-1E X623515 CNEY, WDFD 28-7S-1E X201901374 GDRD 16, 21 & 28-7S-1E (GDRD, WDFD ADJACENT COMMON SOURCES OF SUPPLY TO CNEY) 7% 16-7S-1E 52% 21-7S-1E 41% 28-7S-1E NO OP. NAMED REC 3-25-2019 (P. PORTER)
PENDING CD - 201901376	4/11/2019 - G75 - (I.O.) X622294 CNEY, WDFD 16-7S-1E X623686 CNEY, WDFD 21-7S-1E X623515 CNEY, WDFD 28-7S-1E X201901374 GDRD 16, 21 & 28-7S-1E SHL (17-7S-1E) 797' FSL, 167' FEL COMPL. INT. (16-7S-1E) NCT 165' FSL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (21-7S-1E) NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (28-7S-1E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 3-25-2019 (P. PORTER)
SPACING - 622294	4/11/2019 - G75 - (640) 16-7S-1E EXT OTHER EXT 591646 CNEY, WDFD, OTHERS
SPACING - 623515	4/11/2019 - G75 - (640) 28-7S-1E EST CNEY, WDFD, OTHERS
SPACING - 623686	4/11/2019 - G75 - (640) 21-7S-1E EST OTHER EXT 591646 CNEY, WDFD, OTHERS

ROSE RANCH 1-17H16X21X28

SECTION 17
TOWNSHIP 7 SOUTH, RANGE 1 EAST
LOVE COUNTY, OKLAHOMA

API 085-21303



OPERATOR:



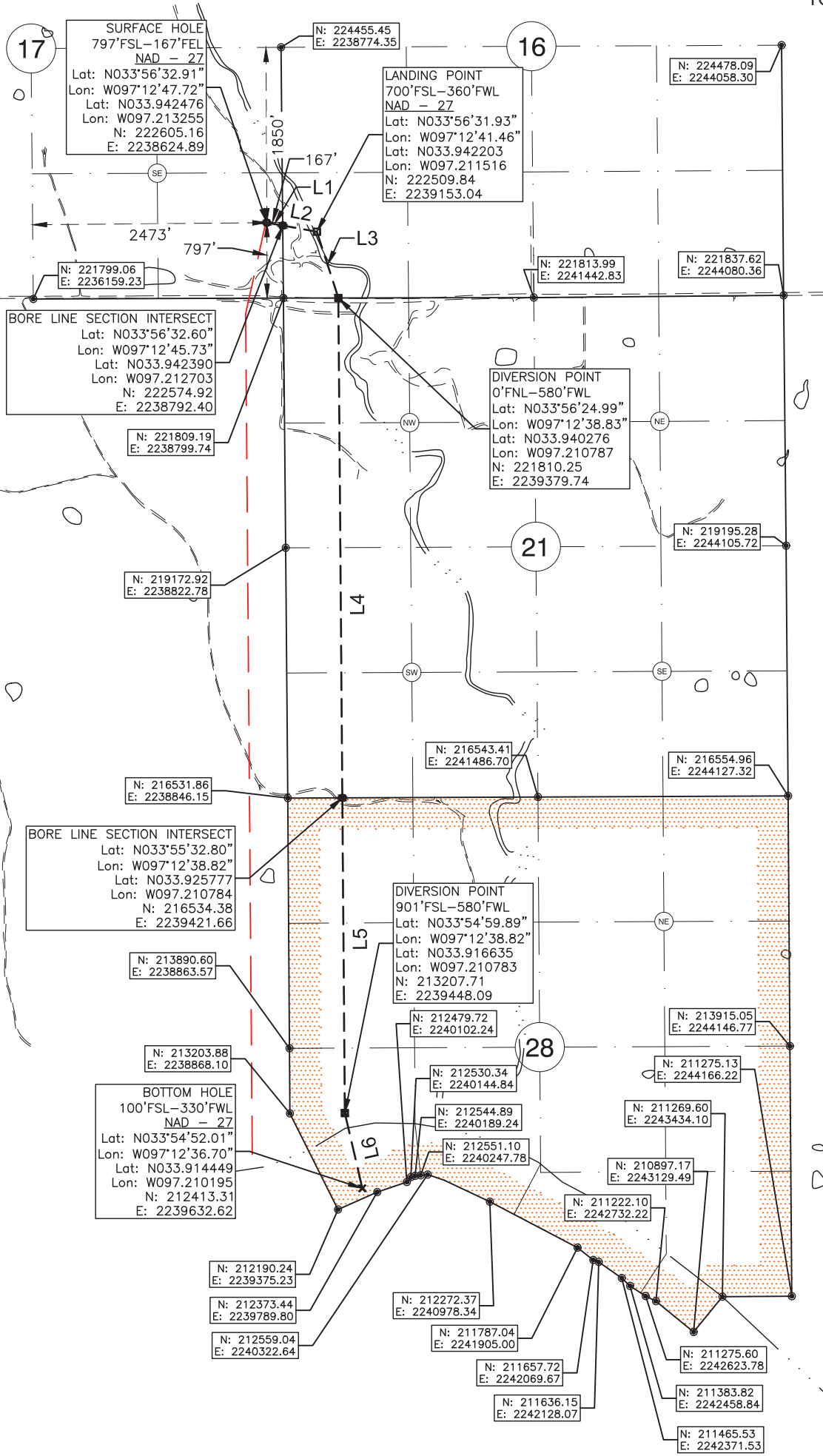
LEGEND:

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

Line Table		
Line #	Azimuth	Length
L1	100.230626	170.21
L2	100.230626	366.47
L3	162.043806	735.41
L4	179.544907	5276.04
L5	179.544907	3326.77
L6	166.922476	815.55



- NOTES:
- 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.
 - Bottom hole information provided by operator listed, not surveyed and corner coordinates are taken from points surveyed in field.



Surface Hole Location: 167' From South Line Section 17
797' From East Line Section 17
Latitude: N33.942476° (NAD 27)
Longitude: W97.213255° (NAD 27)
Latitude: N33.942577° (NAD 83)
Longitude: W97.213547° (NAD 83)
Ground Elev: 759

Landing Point Location: 700' From South Line Section 16
360' From West Line Section 16

Diversion Point Location: 0' From North Line Section 21
580' From West Line Section 21

Diversion Point Location: 901' From South Line Section 28
580' From West Line Section 28

Bottom Hole Location: 100' From South Line OK/TX Border
330' From West Line Section 28

Drilling Unit: Sections 16, 21, & 28, T7S, R1E

Operator: XTO Energy, Inc.

Best Accessibility to Location: From South

Distance & Direction from Hwy Jct or Town:
From the Intersection of Hwy 32 and Interstate 35 go West 4.5mi on Hwy 32 to Existing Access, then 0.1mi North to New Access Rd. Well Location to the 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 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/WP19/ROSERANCH1-17H16X21X28 DRAWN BY: LD
DATE: 06/FEB/19 REV: C SCALE: 1" = 1,500' SHT NO. 1

