

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

API NUMBER: 085 21199

Approval Date: 12/10/2013  
Expiration Date: 06/10/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 7S Rge: 1E County: LOVE  
SPOT LOCATION:  SW  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 235 1140

Lease Name: ENDERCO Well No: 1-4H Well will be 235 feet from nearest unit or lease boundary.  
Operator Name: XTO ENERGY INC Telephone: 8178852283 OTC/OCC Number: 21003 0

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

ENDERCO INC.  
P.O. BOX 416  
GAINESVILLE TX 76241

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

	Name	Depth	Name	Depth
1	CANEY	13500	6	
2	WOODFORD	14370	7	
3	HUNTON	14550	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201307116  
201307118

Special Orders:

Total Depth: 18900 Ground Elevation: 915 **Surface Casing: 1990** Depth to base of Treatable Water-Bearing FM: 440

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: CHICKASHA

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)

H. SEE MEMO

PERMIT NO: 13-25045

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: CHICKASHA

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 04 Twp 7S Rge 1E County LOVE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 10

Feet From: EAST 1/4 Section Line: 450

Depth of Deviation: 12863

Radius of Turn: 637

Direction: 10

Total Length: 5036

Measured Total Depth: 18900

True Vertical Depth: 14550

End Point Location from Lease,  
Unit, or Property Line: 10

Notes:

Category

Description

DEEP SURFACE CASING

12/9/2013 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

MEMO

12/9/2013 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

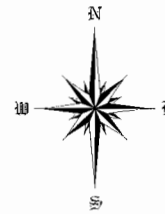
Category	Description
PENDING CD - 201307116	12/10/2013 - G75 - (640) 4-7S-1E VAC OTHER EXT 618811 CNEY, WDFD, HNTN, OTHERS REC 11-18-2013 (STUCK)
PENDING CD - 201307118	12/10/2013 - G75 - (I.O.) 4-7S-1E X201307116 CNEY, WDFD, HNTN, OTHERS SHL 100 FSL, 700 FEL ** FIRST PERF NCT 165 FSL, NCT 330 FEL LAST PERF NCT 165 FNL, NCT 330 FEL NO OP. NAMED REC 11-18-2013 (STUCK)
	** ITD HAS SHL AS 235 FSL, 1140 FEL; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR

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.

API 085-21199

**ENDERCO 1-4H**

SECTION 4  
TOWNSHIP 7 SOUTH, RANGE 1 EAST  
LOVE COUNTY, OKLAHOMA



OPERATOR:



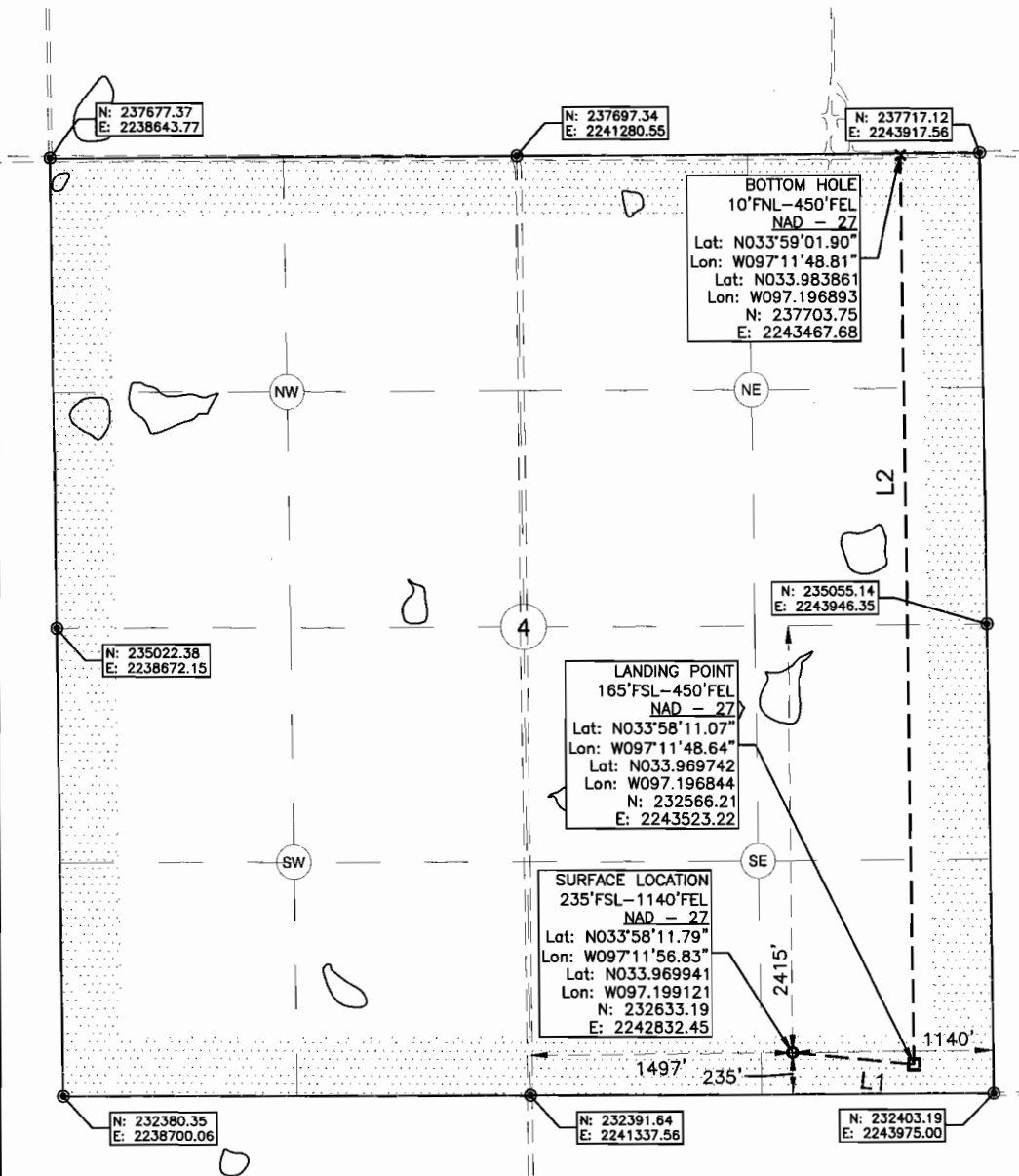
**LEGEND:**

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

Line Table		
Line #	Azimuth	Length
L1	095.538134	694.00
L2	359.380717	5137.83



**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: 235' From South Line Section 4  
1140' From East Line Section 4

Latitude: N33.969941° (NAD 27)  
Longitude: W97.199121° (NAD 27)  
Latitude: N33.970041° (NAD 83)  
Longitude: W97.199413° (NAD 83)

Ground Elev: 914.9

Landing Point Location: 165' From South Line Section 4  
450' From East Line Section 4

Bottom Hole Location: 10' From North Line Section 4  
450' From East Line Section 4

Drilling Unit: Section 4, T7S, R1E

Operator: XTO Energy, Inc.

Best Accessibility to Location: From East

Distance & Direction from Hwy Jct or Town:  
From the Intersection of Hwy 32 and Interstate 35 go West 3.0mi on Hwy 32 to Bowles Rd. then 2.0mi North to Existing Access Rd., then 0.5mi to Access Rd. Well Location to the West.

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*

CHAD FOX P.L.S. NO. 1758  
C.O.A. NO. 6186 EX. DATE: 31JAN14



**CDF AND ASSOCIATES, LLC.**  
404 Coggins Ave. Poteau, OK 74953 (918) 721-1262  
Certificate of Authorization No. 6186

JOB NO:	XTO/WP13/ENDERCO 1-4H	DRAWN BY:	LD
DATE:	21/NOV/13	REV:	C SCALE: 1" = 1,000'
		SHT NO.	1