

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

API NUMBER: 085 21221

Approval Date: 04/03/2014  
Expiration Date: 10/03/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 7S Rge: 1E County: LOVE  
SPOT LOCATION:  NW  SW  SW  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 2180 2405

Lease Name: THOMPSON Well No: 1-21H28X Well will be 2180 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

TOM & LADONNA THOMPSON  
15689 HWY. 32  
MARIETTA OK 73448

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

	Name	Depth	Name	Depth
1	CANEY	13955	6	
2	WOODFORD	14600	7	
3	HUNTON	14900	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201401181  
201401182  
201401184  
201401185  
201401183

Special Orders:

Total Depth: 24000 Ground Elevation: 843 **Surface Casing: 1990** Depth to base of Treatable Water-Bearing FM: 390

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 located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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: 14-26733

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 28 Twp 7S Rge 1E County LOVE

Spot Location of End Point: SW SE SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1680

Depth of Deviation: 14700

Radius of Turn: 1000

Direction: 170

Total Length: 7729

Measured Total Depth: 24000

True Vertical Depth: 15000

End Point Location from Lease,  
Unit, or Property Line: 50

Notes:

Category	Description
DEEP SURFACE CASING	3/28/2014 - 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	3/28/2014 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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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 - 201401181	4/3/2014 - G75 - (640) 21-7S-1E EXT 591646 CNEY, WDFD, HNTN, OTHERS EST OTHER REC 3-13-2014 (P. PORTER)
PENDING CD - 201401182	4/3/2014 - G75 - (640) 28-7S-1E EST CNEY, WDFD, HNTN, OTHERS REC 3-13-2014 (P. PORTER)
PENDING CD - 201401183	4/3/2014 - G75 - (I.O.) 21 & 28-7S-1E EST MULTIUNIT HORIZONTAL WELL X201401181 CNEY, WDFD, HNTN 21-7S-1E X201401182 CNEY, WDFD, HNTN 28-7S-1E (CNEY, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 38% 21-7S-1E 62% 28-7S-1E XTO ENERGY INC. REC 3-13-2014 (P. PORTER)
PENDING CD - 201401184	4/3/2014 - G75 - (I.O.) 21-7S-1E X201401181 CNEY, WDFD, HNTN SHL 2180 FNL, 2445 FEL ** FIRST PERF NCT 1320 FSL, NCT 1320 FEL LAST PERF NCT 0 FSL, NCT 1320 FEL NO OP. NAMED REC 3-13-2014 (P. PORTER)
PENDING CD - 201401185	** ITD HAS SHL AS 2180 FNL, 2405 FEL; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR 4/3/2014 - G75 - (I.O.) 28-7S-1E X201401182 CNEY, WDFD, HNTN FIRST PERF NCT 0 FNL, NCT 1320 FEL LAST PERF NCT 165 FSL, NCT 1320 FEL NO OP. NAMED REC 3-13-2014 (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.

THOMPSON 1-21H28X

SECTION 21  
TOWNSHIP 7 SOUTH, RANGE 1 EAST  
LOVE COUNTY, OKLAHOMA

OPERATOR:



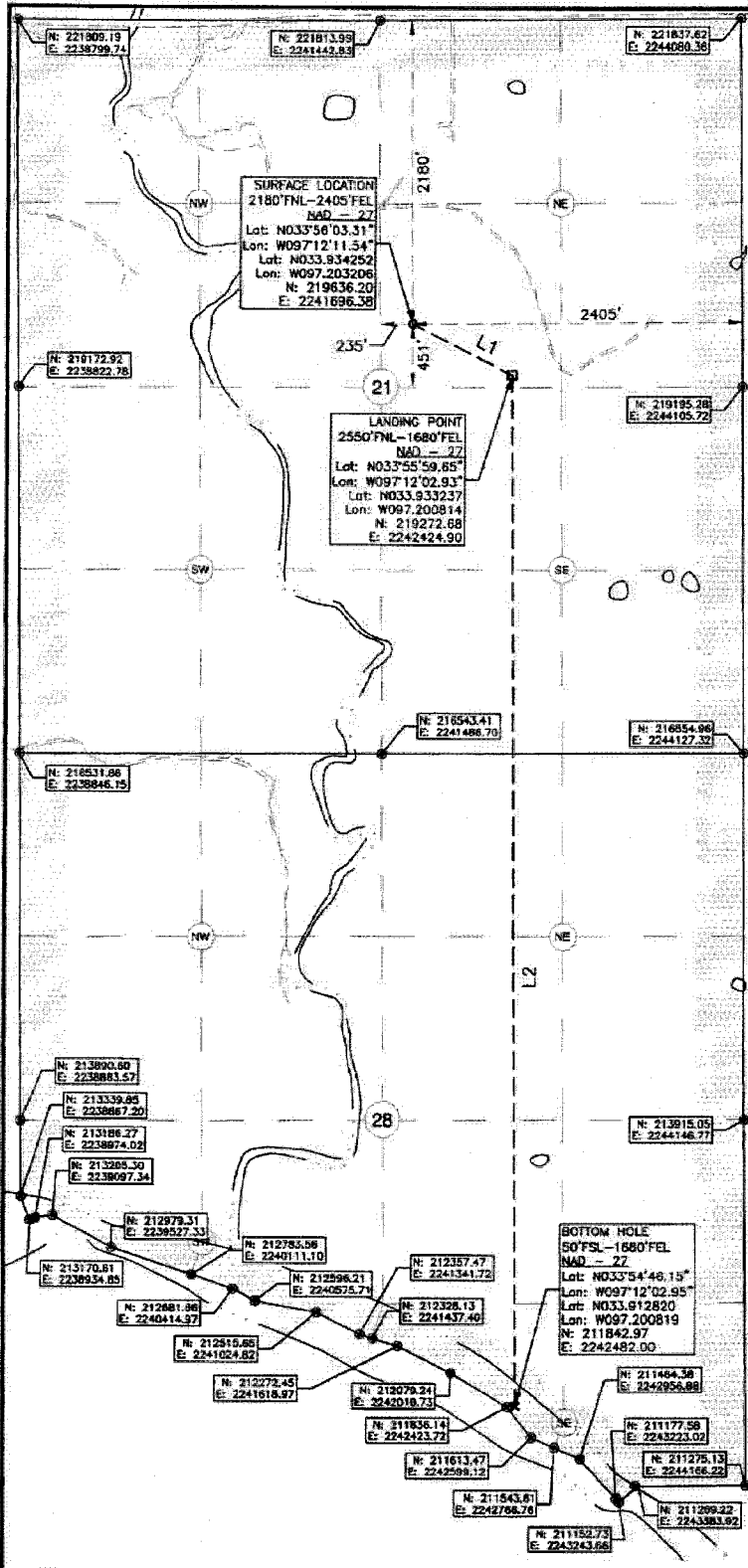
LEGEND:

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

Line #	Azimuth	Length
L1	116.518038	814.18
L2	179.559719	7429.94



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 placement of fences, buildings, or other structures. The client is responsible for obtaining all necessary permits and approvals from the appropriate authorities. The survey was conducted using the NAD83 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: 2180' From North Line Section 21  
2405' From East Line Section 21  
  
Latitude: N33.934252° (NAD 27)  
Longitude: W97.203206° (NAD 27)  
Latitude: N33.934352° (NAD 83)  
Longitude: W97.203498° (NAD 83)  
  
Ground Elev: 842.9  
  
Landing Point Location: 2550' From North Line Section 21  
1680' From East Line Section 21  
  
Bottom Hole Location: 50' From South Line Section 28  
1680' From East Line Section 28  
  
Drilling Unit: Section 21&28, T7S, R1E

Operator: XTO Energy, Inc.  
  
Best Accessibility to Location: From West  
  
Distance & Direction from Hwy Jct or Town:  
From the intersection of Hwy 32 and Interstate 35 go West 3.0mi on Hwy 32 to Existing Access, then 0.6mi South to New Access Rd. Well Location to the East.

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.

3/7/14  
CHAD FOX P.L.S. NO. 1756  
C.O.A. NO. 6186 EX. DATE: 31/JAN14



CDP AND ASSOCIATES, LLC.  
404 Coggins Ave. Poteau, OK 74953 (918) 721-1262  
Certificate of Authorization No. 6186  
JOB NO: XTO/WP13/THOMPSON1-21H28X DRAWN BY: LD  
DATE: 28/FEB/14 REV: C SCALE: 1" = 1,000' SHT NO. 1