

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 A

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

Horizontal Hole Oil & Gas

Amend reason: AMEND SHL

AMEND 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 2445

Lease Name: THOMPSON

Well No: 1-21H28X

Well will be 2180 feet from nearest unit or lease boundary.

Operator Name: XTO ENERGY INC

Telephone: 8178853255

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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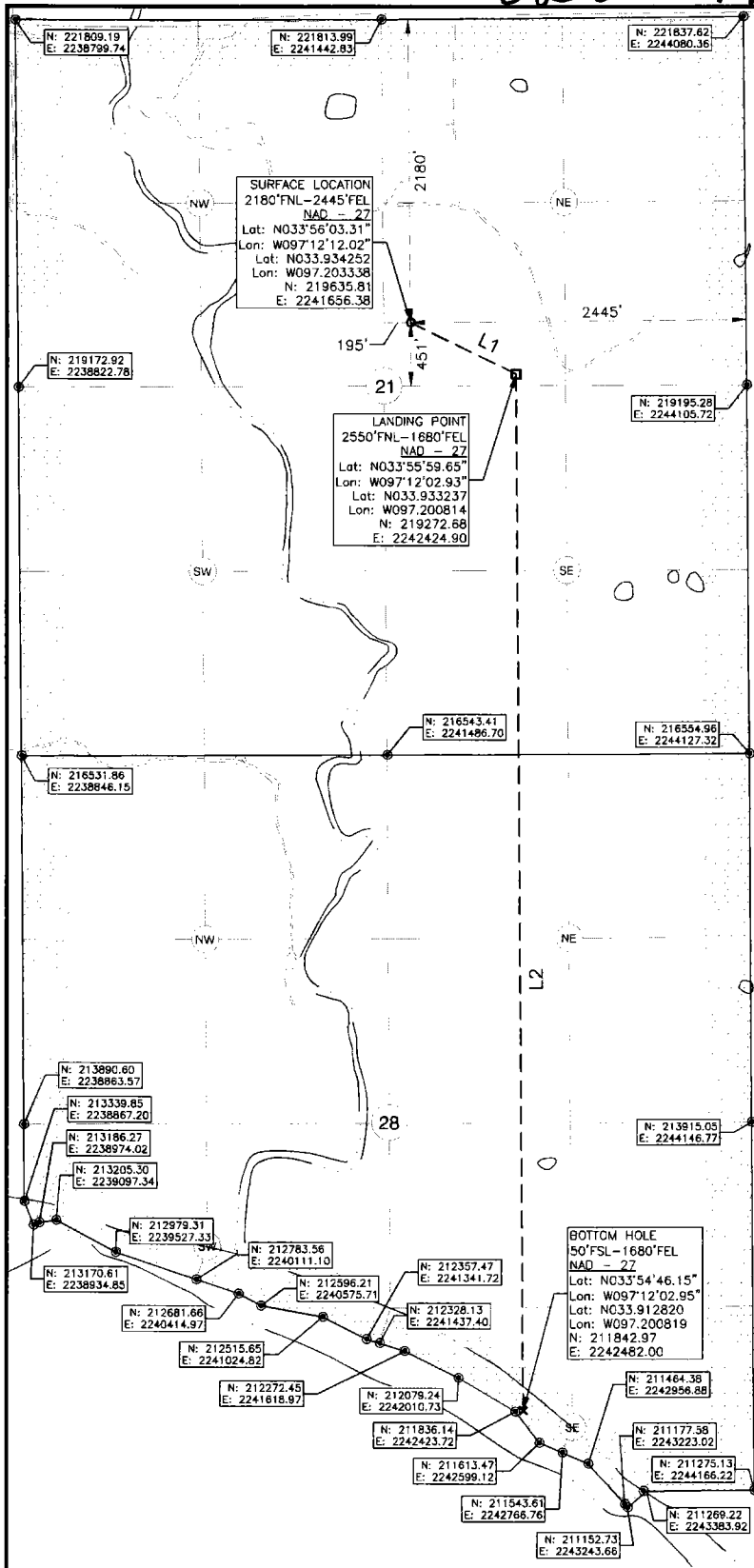
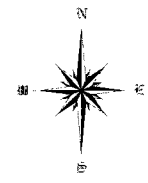
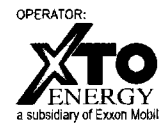
Category	Description
PENDING CD - 201401181	4/3/2014 - G75 - (640) 21-7S-1E EXT 591646 CNEY, WDFD, HNTN, OTHERS EST OTHER REC 3-13-2014 (P. PORTER)
PENDING CD - 201401182	4/3/2014 - G75 - (640) 28-7S-1E EST CNEY, WDFD, HNTN, OTHERS REC 3-13-2014 (P. PORTER)
PENDING CD - 201401183	4/3/2014 - G75 - (I.O.) 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)

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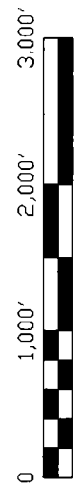
THOMPSON 1-21H28X

SECTION 21
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)
 - x PROPOSED BOTTOM HOLE (PBHL)
 - DRILLING UNIT

Line #	Azimuth	Length
L1	115.290760	849.99
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 establishment of fences, buildings or other further improvement lines. Positions were taken with Survey Grade RTK GPS and NGS OPUS processed control using the NAD07 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
2445' From East Line Section 21

Latitude: N33.934252° (NAD 27)
Longitude: W97.203338° (NAD 27)
Latitude: N33.934352° (NAD 83)
Longitude: W97.203630° (NAD 83)

Ground Elev: 843.4

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

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.

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 5.0mi on Hwy 32 to Existing Access, then 0.6mi South to New Access Rd. Well Location to the East.

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/THOMPSON1-21H28X DRAWN BY: LD
DATE: 10/MAR/14 REV: E SCALE: 1" = 1,000' SHT NO. 1