

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

API NUMBER: 095 20641

Approval Date: 02/24/2015

Expiration Date: 08/24/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 6S Rge: 7E

County: MARSHALL

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 618 1009

Lease Name: RICHARDSON

Well No: 2-8H5

Well will be 618 feet from nearest unit or lease boundary.

Operator Name: XTO ENERGY INC

Telephone: 8178853255; 8178852

OTC/OCC Number: 21003 0

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

RICHARDSON FAMILY LIMITED PARTNERSHIP
112420 S. 4760 ROAD
MULDROW OK 74948

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

Name	Depth	Name	Depth
1 WOODFORD	6300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 581504

Location Exception Orders: 635102

Increased Density Orders: 635771

Pending CD Numbers:

Special Orders:

Total Depth: 12400

Ground Elevation: 678

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 630

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: BOKCHITO

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: 15-29656

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: 8000 Average: 5000

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: BOKCHITO

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: BOKCHITO

HORIZONTAL HOLE 1

Sec 05 Twp 6S Rge 7E County MARSHALL

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 1

Feet From: WEST 1/4 Section Line: 1730

Depth of Deviation: 5614

Radius of Turn: 1000

Direction: 5

Total Length: 5215

Measured Total Depth: 12400

True Vertical Depth: 6400

End Point Location from Lease,

Unit, or Property Line: 1

Notes:

Category

Description

DEEP SURFACE CASING

2/24/2015 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

INCREASED DENSITY - 635771

2/24/2015 - G75 - 5-6S-7E
X581504 WDFD
6 WELLS
XTO ENERGY INC.
1-28-2015

This permit does not address the right of entry or settlement of surface damages.

095 20641 RICHARDSON 2-8H5

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
LOCATION EXCEPTION - 635102	2/24/2015 - G75 - (I.O.) X581504 WDFD SHL 618 FNL, 1009 FWL 8-6S-7E COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 1689 FWL 5-6S-7E XTO ENERGY INC. 1-12-2015
MEMO	2/24/2015 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 581504	2/24/2015 - G75 - (640) 5-6S-7E EXT 557804 WDFD, OTHERS

API 095-20641

RICHARDSON 2-8H5

SECTION 8

TOWNSHIP 6 SOUTH, RANGE 7 EAST
MARSHALL 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	041.894684	1063.91
L2	359.214449	5108.53



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: 618' From North Line Section 8
1009' From West Line Section 8

Latitude: N34.054518° (NAD 27)
Longitude: W96.601223° (NAD 27)
Latitude: N34.054615° (NAD 83)
Longitude: W96.601500° (NAD 83)

Ground Elev: 678.4

Landing Point Location: 165' From South Line Section 5
1730' From West Line Section 5

Bottom Hole Location: 0' From North Line Section 5
1730' From West Line Section 5

Drilling Unit: Section 5, T6S, R7E

Operator: XTO Energy, Inc.

Best Accessibility to Location: From West.

Distance & Direction from Hwy Jct or Town:
From the Intersection of Vine St and Bragg St in Cumberland, OK, go West 0.2mi on Vine St, then 0.6mi South on N3600 Rd to Existing 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.

Chad Fox 9/22/14
CHAD FOX P.L.S. NO. 1758
C.O.A. NO. 6186 EX. DATE: 31JAN14



CDF AND ASSOCIATES, LLC.

208 Dewey Ave. Poteau, OK 74953 (918) 649-3303
Certificate of Authorization No. 6186

JOB NO: XTO/WP14/RICHARDSON 2-8H5 DRAWN BY: LD
DATE: 16/SEP/14 REV: B SCALE: 1" = 1,000' SHT NO. 1