API NUMBER: 019 26289

Horizontal Hole Oil & Gas

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

Approval Date: 01/31/2018
Expiration Date: 07/31/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 3S Rge: 2E County: CARTER

SPOT LOCATION: NE SE NE NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**
SECTION LINES: **880** **280**

Lease Name: LAWSON **Well No: 5-13H14X** **Well will be 280 feet from nearest unit or lease boundary.**

Operator Name: **XTO ENERGY INC** Telephone: 8178853346; 8178852 OTC/OCC Number: 21003 0

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

LYNDAL WATES
987 REDWING ROAD
ARDMORE OK 73401

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

	Name	Depth		Name	Depth
1	WOODFORD	11898	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 197431 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201800037
201800022
201800028
201800020

Special Orders:

Total Depth: 23250 Ground Elevation: 775 **Surface Casing: 1990** Depth to base of Treatable Water-Bearing FM: 1930

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33567
H. SEE MEMO

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

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 14 Twp 3S Rge 2E County CARTER

Spot Location of End Point: SW SW NW NW

Feet From: NORTH 1/4 Section Line: 1310

Feet From: WEST 1/4 Section Line: 1

Depth of Deviation: 11474

Radius of Turn: 800

Direction: 357

Total Length: 10519

Measured Total Depth: 23250

True Vertical Depth: 12000

End Point Location from Lease,
Unit, or Property Line: 1

Notes:

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Category	Description
HYDRAULIC FRACTURING	1/26/2018 - 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	1/26/2018 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201800020	1/30/2018 - G57 - (I.O.) 13 & 14-3S-2E EST MULTIUNIT HORIZONTAL WELL X197431 WDFD 50% 13-3S-2E 50% 14-3S-2E XTO ENERGY, INC. REC 1-23-2018 (DENTON)
PENDING CD - 201800022	1/30/2018 - G57 - (I.O.) 13-3S-2E X197431 WDFD 5 WELLS NO OP. NAMED REC 1-23-2018 (DENTON)
PENDING CD - 201800028	1/30/2018 - G57 - (I.O.) 14-3S-2E X197431 WDFD 5 WELLS NO OP. NAMED REC 1-23-2018 (DENTON)
PENDING CD - 201800037	1/30/2018 - G57 - (I.O.) 13 & 14-3S-2E X197431 WDFD SHL (13-3S-2E) 880' FNL, 280' FEL COMPL. INT. (13-3S-2E) NCT 165' FEL, NCT 0' FWL, NCT 1150' FNL COMPL. INT. (14-3S-2E) NCT 0' FEL, NCT 165' FWL, NCT 1150' FNL NO OP. NAMED REC 1-23-2018 (DENTON)
SPACING - 197431	1/30/2018 - G57 - (640) 13 & 14-3S-2E EXT OTHERS EXT 135984 WDFD, OTHERS
WATERSHED STRUCTURE	1/26/2018 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580) 223-5865 PRIOR TO DRILLING

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