

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

API NUMBER: 043 23695

Approval Date: 04/03/2019

Expiration Date: 10/03/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 16N Rge: 16W County: DEWEY

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 185 740

Lease Name: BROWNIE Well No: 1-32H28X2 Well will be 185 feet from nearest unit or lease boundary.

Operator Name: XTO ENERGY INC

Telephone: 4053193208; 8178852

OTC/OCC Number: 21003 0

XTO ENERGY INC
22777 SPRINGWOODS VILLAGE PKWY
SPRING, TX 77389-1425

BROWNIE M. BROWNE
15009 DOURDAN COURT
OKLAHOMA CITY OK 73142

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

	Name	Depth	Name	Depth
1	MORROW-SPRINGER	10765	6	
2	MISSISSIPPIAN	13299	7	
3	WOODFORD	14315	8	
4			9	
5			10	

Spacing Orders: 693693

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810571

Special Orders:

Total Depth: 23800

Ground Elevation: 1876

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 430

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36379

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: 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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 21 Twp 16N Rge 16W County DEWEY

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 430

Depth of Deviation: 11935

Radius of Turn: 1000

Direction: 10

Total Length: 10294

Measured Total Depth: 23800

True Vertical Depth: 14315

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

Notes:

Category

Description

DEEP SURFACE CASING

3/25/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

3/25/2019 - 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

3/25/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201810571

4/3/2019 - GA8 - (I.O.) 28 & 21-16N-16W
X693694 MWSPR, MSSP, WDFD
COMPL. INT. MSSP, WDFD (28-16N-16W) NCT 165' FSL, NCT 330' FWL
COMPL. INT. MSSP, WDFD (21-16N-16W) NCT 165' FNL, NCT 330' FWL
COMPL. INT. MWSPR (28-16N-16W) NCT 330' FSL, NCT 330' FWL
COMPL. INT. MWSPR (21-16N-16W) NCT 330' FNL, NCT 330' FWL
NO OP. NAMED
REC 1/28/2019 (M. PORTER)

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

043 23695 BROWNIE 1-32H28X2

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

SPACING - 693694

4/3/2019 - GA8 - (1280)(HOR) 28 & 21-16N-16W
EST MWSPR, MSSP, WDFD
POE TO BHL (MWSPR, MSSP) NLT 660' FB
POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(COEXIST WITH ANY EXISTING NON-HORIZONTAL SPACING)

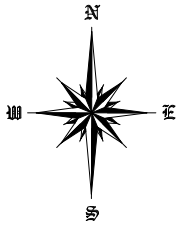
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BROWNIE 1-32H28X21

SECTION 32
TOWNSHIP 16 NORTH, RANGE 16 WEST
DEWEY COUNTY, OKLAHOMA
35-043-23695



OPERATOR:



LEGEND:

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

Line Table		
Line #	Azimuth	Length
L1	080.010586	752.37
L2	063.580341	112.16
L3	063.580341	370.14
L4	000.455016	5089.16
L5	000.455016	5205.19

DIVERSION POINT
50'FNL-0'FEL
Lat: N035°49'36.12"
Lon: W098°54'55.75"
Lat: N035.826701
Lon: W098.915487
N: 302204.85
E: 1728604.19

SURFACE HOLE
185'FNL-740'FEL
NAD - 27
Lat: N035°49'34.76"
Lon: W098°55'04.74"
Lat: N035.826323
Lon: W098.917983
N: 302074.34
E: 1727863.23

BOTTOM HOLE
50'FNL-430'FWL
NAD - 27
Lat: N035°51'20.10"
Lon: W098°54'50.72"
Lat: N035.855582
Lon: W098.914089
N: 312713.47
E: 1729117.87

N: 312762.69
E: 1728668.23

N: 310133.10
E: 1728668.46

N: 307508.55
E: 1728653.81

BORE LINE SECTION INTERSECT
Lat: N035°50'28.62"
Lon: W098°54'50.63"
Lat: N035.841283
Lon: W098.914063
N: 307508.44
E: 1729076.53

N: 304881.70
E: 1728629.18

BORE LINE SECTION INTERSECT
Lat: N035°49'36.63"
Lon: W098°54'54.54"
Lat: N035.826841
Lon: W098.915150
N: 302254.76
E: 1728704.64

LANDING POINT
165'FSL-430'FWL
NAD - 27
Lat: N035°49'38.29"
Lon: W098°54'50.53"
Lat: N035.827302
Lon: W098.914037
N: 302419.44
E: 1729036.12

N: 302254.85
E: 1728604.55

N: 302252.37
E: 1731243.09

N: 302250.02
E: 1733901.96

N: 299627.92
E: 1728585.55



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 North 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: 185' From North Line Section 32
740' From East Line Section 32

Latitude: N35.826323° (NAD 27)
Longitude: W98.911983° (NAD 27)
Latitude: N35.826370° (NAD 83)
Longitude: W98.918352° (NAD 83)

Ground Elev: 1875.70

Landing Point Location: 50' From South Line of Section 28
430' From West Line of Section 28

Bottom Hole Location: 50' From North Line Section 21
430' From West Line Section 21

Drilling Unit: Sec. 21 and 28,T16N,R16W

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 North

Distance & Direction from Hwy Jct or Town:
From the intersection of Hwy 47 and E 0820 Rd, then East on E 0820 Rd 3.2mi to Access Rd. Well Location to the South.

CHAD FOX P.L.S. NO. 1758
EX. DATE: 31JAN20 C.O.A. NO. 6186

CDF AND ASSOCIATES, LLC.

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

JOB NO: XTO/WP18/BROWNIE 1-32H28X21 DRAWN BY: LD
DATE: 12/MAR/19 REV: E SCALE: 1" = 1,200' SHT NO. 1