

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

API NUMBER: 085 21298

Approval Date: 02/22/2019

Expiration Date: 08/22/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 8S Rge: 2E County: LOVE

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

SECTION LINES: 440 2250

Lease Name: HORSESHOE BEND

Well No: 1-9H4X5

Well will be 440 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

RON MCCUTCHIN OK PARTNERSHIP, LTD
5924 ROYAL LANE, STE. 200B
DALLAS TX 75230

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

	Name	Depth	Name	Depth
1	CANEY	16189	6	
2	WOODFORD	16700	7	
3	HUNTON	16861	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201900413
201900414
201900415
201900417
201900416

Special Orders:

Total Depth: 26000

Ground Elevation: 834

Surface Casing: 1990

Depth to base of Treatable Water-Bearing FM: 830

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: 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 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

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

PERMIT NO: 19-36167

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 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 8S Rge 2E County LOVE

Spot Location of End Point: SE SE NW NW

Feet From: NORTH 1/4 Section Line: 1285

Feet From: WEST 1/4 Section Line: 1180

Depth of Deviation: 16289

Radius of Turn: 1000

Direction: 302

Total Length: 8140

Measured Total Depth: 26000

True Vertical Depth: 17000

End Point Location from Lease,

Unit, or Property Line: 1180

Additional Surface Owner	Address	City, State, Zip
RUDMAN PARTNERSHIP C/O TREY	1700 PACIFIC AVE., STE. 4700	DALLAS, TX 75201

Notes:

Category

Description

DEEP SURFACE CASING

2/8/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

2/8/2019 - 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

2/8/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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

085 21298 HORSESHOE BEND 1-9H4X5

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

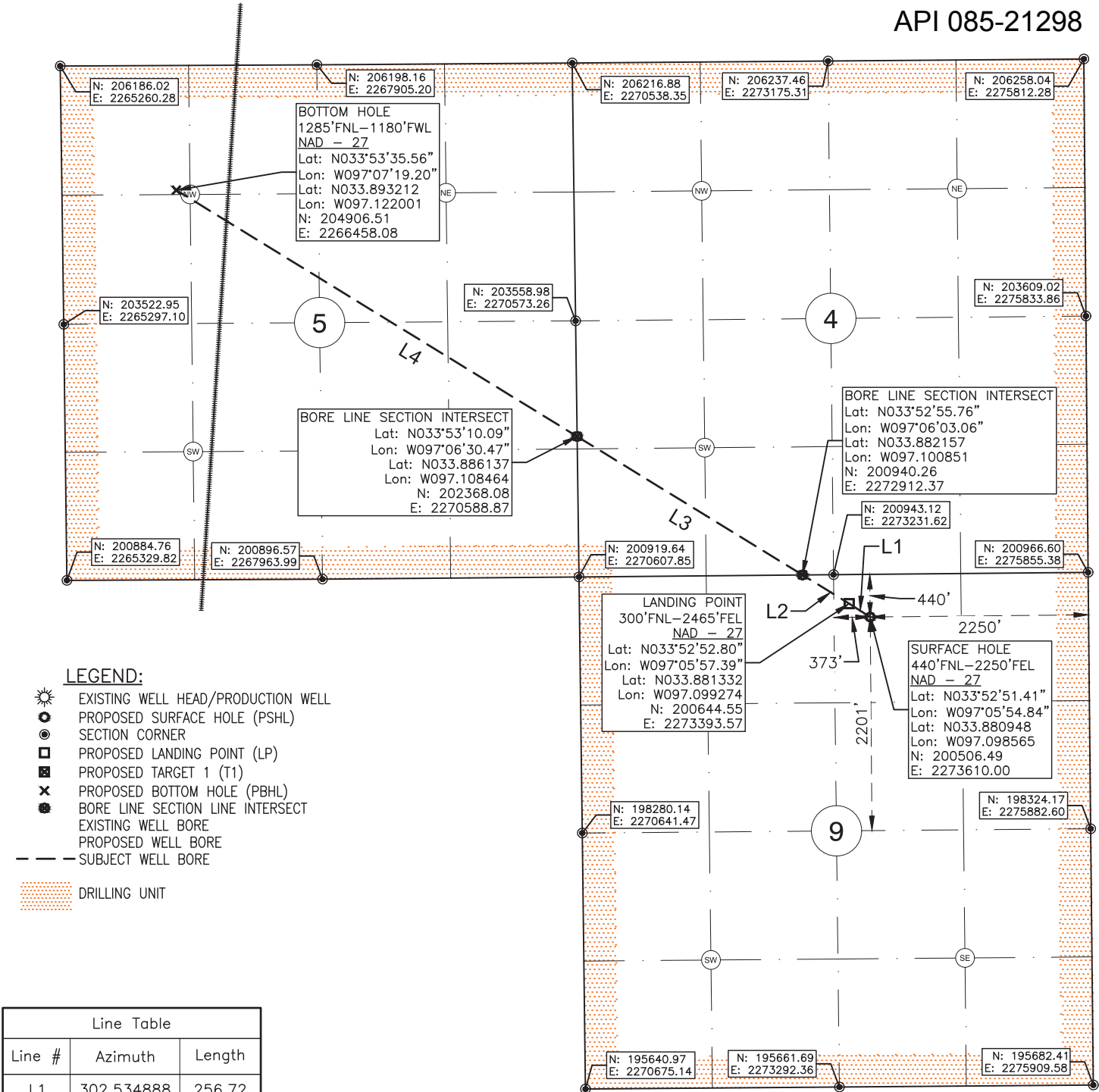
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201900413	2/21/2019 - G75 - (640)(HOR) 4-8S-2E EST CNEY, WDFD, HNTN COMPL. INT. (HNTN) NLT 660' FB COMPL. INT. (CNEY) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 2-11-2019 (JOHNSON)
PENDING CD - 201900414	2/21/2019 - G75 - (640)(HOR) 5-8S-2E EST CNEY, WDFD, HNTN COMPL. INT. (HNTN) NLT 660' FB COMPL. INT. (CNEY) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 2-11-2019 (JOHNSON)
PENDING CD - 201900415	2/21/2019 - G75 - (640)(HOR) 9-8S-2E EST CNEY, WDFD, HNTN COMPL. INT. (HNTN) NLT 660' FB COMPL. INT. (CNEY) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 2-11-2019 (JOHNSON)
PENDING CD - 201900416	2/21/2019 - G75 - (I.O.) 9, 4 & 5-8S-2E EST MULTIUNIT HORIZONTAL WELL X201900415 CNEY, WDFD, HNTN 9-8S-2E X201900413 CNEY, WDFD, HNTN 4-8S-2E X201900414 CNEY, WDFD, HNTN 5-8S-2E (CNEY, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 8% 9-8S-2E 33% 4-8S-2E 59% 5-8S-2E NO OP. NAMED REC 2-11-2019 (JOHNSON)
PENDING CD - 201900417	2/21/2019 - G75 - (I.O.) 9, 4 & 5-8S-2E X201900415 CNEY, WDFD, HNTN 9-8S-2E X201900413 CNEY, WDFD, HNTN 4-8S-2E X201900414 CNEY, WDFD, HNTN 5-8S-2E COMPL. INT. (9-8S-2E) NCT 0' FNL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (4-8S-2E) NCT 0' FSL, NCT 0' FWL, NCT 2640' FEL COMPL. INT. (5-8S-2E) NCT 0' FEL, NCT 165' FNL, NCT 660' FWL NO OP. NAMED REC 2-11-2019 (JOHNSON)

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.



Surface Hole Location: 440' From North Line Section 9
2250' From East Line Section 9

Latitude: N33.880948° (NAD 27)
Longitude: W97.098565° (NAD 27)
Latitude: N33.881050° (NAD 83)
Longitude: W97.098855° (NAD 83)

Ground Elev: 834.44

Landing Point Location: 300' From North Line Section 9
2465' From East Line Section 9

Bottom Hole Location: 1285' From North Line Section 5
1180' From West Line Section 5

Drilling Unit: Sections 4, 5 & 9, T8S, R2E

Operator: XTO Energy, Inc.

Best Accessibility to Location: From West

Distance & Direction from Hwy Jct or Town:
From the Intersection of Cemetery Rd and Loves Valley Rd, go East on Loves Valley Rd 0.7mi to Access Rd. Well Location to the South.

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 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/WP19/HORSESHOEBEND1-9H4X5 DRAWN BY: LD
DATE: 16/JAN/19 REV: B SCALE: 1" = 1,500' SHT NO. 1

