

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address XTO Energy, Inc 4601 Holiday Hill Rd bldg #5 Midland, TX 79707		² OGRID Number 005380	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 0 15- 43711	⁵ Pool Name Willow Lake - Bone Spring, SE		⁶ Pool Code 96217
⁷ Property Code 314121	⁸ Property Name Corral Canyon Federal		⁹ Well Number 20H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	4	25S	29E		170	South	560	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	25S	29E		50	South	654	East	Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 09/06/2020	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
034053	Plains Marketing, LP PO Box 4648 Houston, TX 77210	O
248440	Western Refining Company, LP 6500 Trowbridge Drive El Paso, TX 79905	O
372422	Luic Energy Delaware, LLC 3100 Mckinnon Suite 800 Artesia, NM 88210	G

IV. Well Completion Data

²¹ Spud Date 03/03/2019	²² Ready Date 09/10/2020	²³ TD 19486/8751	²⁴ PBTD 19484/8751	²⁵ Perforations 9565 - 19342	²⁶ DHC, MC N/A
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	548	1167		
12 1/4	9 5/8	2918	1318		
8 1/2	5 1/2	19486	3036		

V. Well Test Data

³¹ Date New Oil 09/11/2020	³² Gas Delivery Date 09/11/2020	³³ Test Date 09/15/2020	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 1633	³⁹ Water 3211	⁴⁰ Gas 3163		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Cassie Evans</i>			OIL CONSERVATION DIVISION		
Printed name: Cassie Evans			Approved by: <i>Anabela Batamente</i>		
Title: Regulatory Analyst			Title: BUSINESS OP. SPEC.		
E-mail Address: cassie_evans@xtoenergy.com			Approval Date: 01/27/2021		
Date: 09/23/2020		Phone:	<i>01/27/2021 - Request for NMOCD extension of time to file BLM-Approved form 3160-4. File 3160-4 within 10 days to NMOCD after BLM approval.</i>		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMNRD-Rec'd: 09/29/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

¹ API Number 30-015-43711	² Pool Code 96217	³ Pool Name Willow-Lake; Bone Spring, SE
⁴ Property Code 314121	⁵ Property Name CORRAL CANYON FEDERAL	⁶ Well Number 20H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 2,998'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	25 S	29 E		170	SOUTH	560	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	25 S	29 E		50	SOUTH	654	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY.

¹⁶ SEC. 4 MD=7,983' K.O.P. S.H.L. 736' 560' SEC. 9 453' 170' 674' F.T.P. MD=9,565' SEC. 10 T25S R29E SEC. 16 330' SEC. 15 SEC. 21 L.T.P. MD=19,342' 653' 654' 50' 194' B.H.L. SEC. 22	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 419,294.2 X= 608,673.4 LAT= 32.152269°N LONG= 103.982187°W FIRST TAKE POINT NAD 27 NME Y= 418,470.4 X= 608,560.3 LAT= 32.150006°N LONG= 103.982562°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 419,127.1 N, X= 609,234.4 E B - Y= 419,120.2 N, X= 607,904.7 E C - Y= 416,469.6 N, X= 609,235.0 E D - Y= 416,464.1 N, X= 607,907.0 E E - Y= 413,817.8 N, X= 609,236.8 E F - Y= 413,812.2 N, X= 607,909.9 E G - Y= 411,164.1 N, X= 609,253.6 E H - Y= 411,158.2 N, X= 607,926.1 E I - Y= 408,509.1 N, X= 609,270.8 E J - Y= 408,502.7 N, X= 607,942.5 E KICK OFF POINT NAD 27 NME Y= 419,576.4 X= 608,495.3 LAT= 32.153047°N LONG= 103.982760°W KICK OFF POINT NAD 83 NME Y= 419,634.9 X= 649,679.5 LAT= 32.153170°N LONG= 103.983247°W GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 419,352.7 X= 649,857.6 LAT= 32.152393°N LONG= 103.982675°W FIRST TAKE POINT NAD 83 NME Y= 418,528.9 X= 649,744.5 LAT= 32.150130°N LONG= 103.983049°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 419,185.6 N, X= 650,418.6 E B - Y= 419,178.7 N, X= 649,088.9 E C - Y= 416,528.0 N, X= 650,419.3 E D - Y= 416,522.6 N, X= 649,091.3 E E - Y= 413,876.2 N, X= 650,421.1 E F - Y= 413,870.6 N, X= 649,094.2 E G - Y= 411,222.4 N, X= 650,438.0 E H - Y= 411,216.5 N, X= 649,110.5 E I - Y= 408,567.4 N, X= 650,455.3 E J - Y= 408,561.0 N, X= 649,127.0 E LAST TAKE POINT NAD 27 NME Y= 408,699.9 X= 608,616.4 LAT= 32.123146°N LONG= 103.982483°W LAST TAKE POINT NAD 83 NME Y= 408,758.2 X= 649,800.9 LAT= 32.123271°N LONG= 103.982969°W BOTTOM HOLE LOCATION NAD 27 NME Y= 408,556.0 X= 608,616.1 LAT= 32.122751°N LONG= 103.982487°W BOTTOM HOLE LOCATION NAD 83 NME Y= 408,614.3 X= 649,800.6 LAT= 32.122875°N LONG= 103.982972°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Cassie Evans 09/17/2020 Signature Date Cassie Evans Printed Name cassie.evans@xtoenergy.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 9-3-2020 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2017101684
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



XTO ENERGY, INC.

Eddy County, NM

Sec 4, T25S, R29E

Corral Canyon Federal #20H

Wellbore #1

Design: Wellbore #1

QES Survey Report

23 March, 2019





Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Sec 4, T25S, R29E				
Site Position:		Northing:	419,294.20 usft	Latitude:	32° 9' 8.170 N	
From:	Map	Easting:	608,673.40 usft	Longitude:	103° 58' 55.875 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.19 °

Well	Corral Canyon Federal #20H					
Well Position	+N/-S	0.0 usft	Northing:	419,294.20 usft	Latitude:	32° 9' 8.170 N
	+E/-W	0.0 usft	Easting:	608,673.40 usft	Longitude:	103° 58' 55.875 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	2,998.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/8/2019	6.95	59.91	47,678.26360129

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.80	

Survey Program	Date	3/23/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
169.0	7,879.0	Wellbenders SFC Surveys (Wellbore #1)	GYRO-NS	Gyrocompass Gyro	
7,929.0	19,486.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
169.0	0.40	20.49	169.0	0.6	0.2	-0.6	0.24	0.24	0.00	
285.0	1.32	289.44	285.0	1.4	-0.9	-1.4	1.20	0.79	-78.49	
385.0	1.80	294.01	385.0	2.4	-3.4	-2.4	0.50	0.48	4.57	
475.0	2.29	287.50	474.9	3.5	-6.4	-3.5	0.60	0.54	-7.23	
529.0	2.51	287.15	528.8	4.2	-8.6	-4.2	0.41	0.41	-0.65	
720.0	2.11	289.79	719.7	6.6	-15.9	-6.7	0.22	-0.21	1.38	
920.0	2.42	292.69	919.5	9.5	-23.3	-9.6	0.17	0.16	1.45	
1,120.0	2.02	308.68	1,119.4	13.3	-29.9	-13.4	0.37	-0.20	8.00	
1,320.0	1.71	323.01	1,319.3	17.9	-34.5	-18.0	0.28	-0.16	7.17	



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,520.0	1.80	316.95	1,519.2	22.6	-38.4	-22.7	0.10	0.05	-3.03
1,720.0	1.71	314.40	1,719.1	27.0	-42.7	-27.1	0.06	-0.05	-1.28
1,920.0	1.80	316.95	1,919.0	31.4	-46.9	-31.5	0.06	0.05	1.28
2,070.0	1.58	315.80	2,068.9	34.6	-50.0	-34.7	0.15	-0.15	-0.77
2,260.0	1.49	311.76	2,258.9	38.1	-53.7	-38.3	0.07	-0.05	-2.13
2,451.0	0.79	29.90	2,449.8	40.9	-54.9	-41.1	0.80	-0.37	40.91
2,641.0	1.19	65.84	2,639.8	42.8	-52.4	-43.0	0.38	0.21	18.92
2,830.0	2.80	111.11	2,828.7	42.0	-46.3	-42.1	1.13	0.85	23.95
2,949.0	4.70	111.55	2,947.4	39.1	-39.1	-39.3	1.60	1.60	0.37
3,029.0	0.48	95.55	3,027.3	37.9	-35.7	-38.0	5.30	-5.28	-20.00
3,121.0	0.40	259.47	3,119.3	37.8	-35.6	-37.9	0.95	-0.09	178.17
3,216.0	0.22	276.34	3,214.3	37.7	-36.1	-37.9	0.21	-0.19	17.76
3,311.0	0.40	286.45	3,309.3	37.9	-36.6	-38.0	0.20	0.19	10.64
3,405.0	0.31	241.80	3,403.3	37.8	-37.2	-38.0	0.30	-0.10	-47.50
3,499.0	0.31	219.48	3,497.3	37.5	-37.5	-37.6	0.13	0.00	-23.74
3,595.0	0.40	260.87	3,593.3	37.3	-38.0	-37.4	0.28	0.09	43.11
3,691.0	0.40	225.01	3,689.3	37.0	-38.6	-37.1	0.26	0.00	-37.35
3,786.0	0.48	221.76	3,784.3	36.4	-39.1	-36.6	0.09	0.08	-3.42
3,881.0	0.62	238.28	3,879.3	35.9	-39.8	-36.0	0.22	0.15	17.39
3,978.0	0.88	239.78	3,976.3	35.2	-40.9	-35.4	0.27	0.27	1.55
4,073.0	0.79	246.11	4,071.3	34.6	-42.1	-34.7	0.14	-0.09	6.66
4,165.0	1.10	253.66	4,163.3	34.1	-43.6	-34.2	0.36	0.34	8.21
4,260.0	0.88	247.69	4,258.3	33.6	-45.1	-33.7	0.26	-0.23	-6.28
4,352.0	1.01	247.95	4,350.3	33.0	-46.5	-33.1	0.14	0.14	0.28
4,448.0	1.01	244.00	4,446.2	32.3	-48.1	-32.5	0.07	0.00	-4.11
4,544.0	0.88	252.26	4,542.2	31.7	-49.5	-31.9	0.20	-0.14	8.60
4,638.0	0.88	252.61	4,636.2	31.3	-50.9	-31.4	0.01	0.00	0.37
4,733.0	0.70	245.84	4,731.2	30.8	-52.1	-31.0	0.21	-0.19	-7.13
4,828.0	0.88	246.72	4,826.2	30.3	-53.3	-30.5	0.19	0.19	0.93
4,921.0	0.88	250.06	4,919.2	29.8	-54.6	-29.9	0.06	0.00	3.59
5,016.0	0.88	233.27	5,014.2	29.1	-55.9	-29.3	0.27	0.00	-17.67
5,112.0	0.88	233.98	5,110.2	28.2	-57.1	-28.4	0.01	0.00	0.74
5,207.0	0.79	237.05	5,205.2	27.4	-58.2	-27.6	0.11	-0.09	3.23
5,302.0	0.70	146.17	5,300.2	26.6	-58.5	-26.8	1.12	-0.09	-95.66
5,397.0	1.58	261.75	5,395.1	25.9	-59.4	-26.1	2.09	0.93	121.66
5,492.0	1.32	250.85	5,490.1	25.4	-61.8	-25.6	0.40	-0.27	-11.47
5,587.0	1.49	274.23	5,585.1	25.1	-64.0	-25.3	0.62	0.18	24.61
5,681.0	1.32	248.66	5,679.1	24.8	-66.3	-25.0	0.68	-0.18	-27.20
5,777.0	1.10	250.85	5,775.0	24.1	-68.2	-24.3	0.23	-0.23	2.28
5,876.0	1.19	249.08	5,874.0	23.4	-70.0	-23.6	0.10	0.09	-1.79
5,971.0	1.01	242.14	5,969.0	22.7	-71.7	-22.9	0.24	-0.19	-7.31
6,067.0	1.41	266.92	6,065.0	22.2	-73.6	-22.5	0.68	0.42	25.81
6,162.0	2.29	299.53	6,159.9	23.1	-76.4	-23.3	1.41	0.93	34.33



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,258.0	3.21	307.71	6,255.8	25.7	-80.2	-25.9	1.04	0.96	8.52
6,354.0	5.71	327.66	6,351.5	31.3	-84.9	-31.6	3.03	2.60	20.78
6,450.0	7.21	330.12	6,446.9	40.6	-90.5	-40.9	1.59	1.56	2.56
6,545.0	8.62	334.51	6,541.0	52.2	-96.5	-52.5	1.61	1.48	4.62
6,641.0	10.59	332.84	6,635.7	66.5	-103.6	-66.9	2.07	2.05	-1.74
6,737.0	9.89	333.02	6,730.1	81.7	-111.4	-82.1	0.73	-0.73	0.19
6,832.0	10.81	335.13	6,823.6	97.1	-118.8	-97.5	1.05	0.97	2.22
6,927.0	9.01	336.62	6,917.2	112.0	-125.5	-112.4	1.91	-1.89	1.57
7,021.0	10.29	340.40	7,009.8	126.7	-131.3	-127.1	1.52	1.36	4.02
7,116.0	9.41	338.38	7,103.4	141.9	-137.0	-142.4	1.00	-0.93	-2.13
7,211.0	9.89	340.40	7,197.1	156.8	-142.6	-157.3	0.62	0.51	2.13
7,307.0	11.30	343.39	7,291.4	173.6	-148.0	-174.1	1.58	1.47	3.11
7,402.0	10.20	338.38	7,384.8	190.3	-153.8	-190.8	1.52	-1.16	-5.27
7,498.0	9.32	337.68	7,479.4	205.4	-159.9	-206.0	0.92	-0.92	-0.73
7,593.0	8.88	337.59	7,573.2	219.3	-165.6	-219.9	0.46	-0.46	-0.09
7,689.0	9.80	346.90	7,667.9	234.1	-170.3	-234.7	1.84	0.96	9.70
7,784.0	10.81	350.60	7,761.4	250.8	-173.6	-251.4	1.27	1.06	3.89
Gyro Tie-in @ 7879.0' MD / 7854.9' TVD									
7,879.0	9.41	349.70	7,854.9	267.2	-176.4	-267.8	1.48	-1.47	-0.95
7,929.0	8.90	356.80	7,904.3	275.1	-177.4	-275.7	2.48	-1.02	14.20
7,976.0	7.10	353.20	7,950.8	281.6	-177.9	-282.2	3.97	-3.83	-7.66
8,023.0	3.60	313.70	7,997.6	285.5	-179.3	-286.1	10.40	-7.45	-84.04
8,070.0	6.20	256.20	8,044.5	285.9	-182.8	-286.6	11.13	5.53	-122.34
8,118.0	10.30	243.20	8,092.0	283.4	-189.2	-284.0	9.33	8.54	-27.08
8,165.0	12.80	228.40	8,138.0	278.0	-196.8	-278.7	8.21	5.32	-31.49
8,214.0	16.00	217.50	8,185.5	269.0	-205.0	-269.8	8.53	6.53	-22.24
8,261.0	20.00	204.50	8,230.2	256.6	-212.3	-257.3	12.01	8.51	-27.66
8,308.0	23.30	193.60	8,273.9	240.2	-217.8	-241.0	11.04	7.02	-23.19
8,355.0	25.90	181.70	8,316.6	220.9	-220.3	-221.7	11.88	5.53	-25.32
8,404.0	28.20	171.50	8,360.3	198.7	-218.9	-199.5	10.55	4.69	-20.82
8,451.0	32.40	174.60	8,400.9	175.2	-216.1	-176.0	9.53	8.94	6.60
8,500.0	38.00	174.80	8,440.9	147.1	-213.5	-147.8	11.43	11.43	0.41
8,547.0	42.60	172.20	8,476.7	116.9	-210.0	-117.6	10.42	9.79	-5.53
8,594.0	47.00	169.90	8,510.1	84.2	-204.8	-84.9	9.98	9.36	-4.89
8,641.0	51.30	168.10	8,540.8	49.3	-198.0	-50.0	9.60	9.15	-3.83
8,690.0	55.50	168.70	8,570.0	10.8	-190.1	-11.5	8.63	8.57	1.22
8,737.0	57.60	169.00	8,595.9	-27.7	-182.6	27.0	4.50	4.47	0.64
8,786.0	60.80	169.00	8,621.0	-69.0	-174.5	68.4	6.53	6.53	0.00
8,833.0	63.80	170.90	8,642.9	-109.9	-167.3	109.4	7.32	6.38	4.04
8,882.0	65.50	173.90	8,663.9	-153.8	-161.4	153.3	6.53	3.47	6.12
Cross LL@ 8900.7' MD / 8671.4' TVD									
8,900.7	66.57	174.83	8,671.4	-170.8	-159.8	170.3	7.30	5.72	4.95
8,929.0	68.20	176.20	8,682.3	-196.9	-157.7	196.3	7.30	5.76	4.85
8,977.0	71.30	175.90	8,698.9	-241.8	-154.6	241.3	6.48	6.46	-0.63



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Cross 100' HL@ 9008.3' MD / 8708.4' TVD									
9,008.3	73.50	177.04	8,708.4	-271.6	-152.8	271.0	7.83	7.02	3.64
9,024.0	74.60	177.60	8,712.7	-286.7	-152.1	286.1	7.83	7.03	3.58
9,072.0	79.60	177.80	8,723.4	-333.4	-150.2	332.9	10.42	10.42	0.42
9,119.0	84.30	178.20	8,730.0	-379.9	-148.6	379.4	10.04	10.00	0.85
9,168.0	90.10	178.00	8,732.4	-428.8	-146.9	428.3	11.84	11.84	-0.41
9,264.0	90.70	175.50	8,731.7	-524.6	-141.5	524.1	2.68	0.63	-2.60
9,359.0	88.40	173.60	8,732.5	-619.2	-132.5	618.7	3.14	-2.42	-2.00
9,455.0	88.60	174.50	8,735.0	-714.6	-122.5	714.2	0.96	0.21	0.94
9,550.0	88.90	175.30	8,737.1	-809.2	-114.1	808.8	0.90	0.32	0.84
9,646.0	90.70	177.30	8,737.4	-905.0	-107.9	904.6	2.80	1.88	2.08
9,742.0	91.10	176.90	8,735.9	-1,000.9	-103.0	1,000.5	0.59	0.42	-0.42
9,837.0	89.60	175.90	8,735.3	-1,095.7	-97.1	1,095.3	1.90	-1.58	-1.05
9,931.0	89.30	176.80	8,736.2	-1,189.5	-91.1	1,189.2	1.01	-0.32	0.96
10,026.0	89.60	178.00	8,737.1	-1,284.4	-86.8	1,284.1	1.30	0.32	1.26
10,120.0	88.40	176.90	8,738.8	-1,378.3	-82.6	1,378.0	1.73	-1.28	-1.17
10,214.0	88.50	180.30	8,741.3	-1,472.2	-80.3	1,471.9	3.62	0.11	3.62
10,309.0	88.60	180.30	8,743.7	-1,567.2	-80.8	1,566.9	0.11	0.11	0.00
10,404.0	89.30	180.30	8,745.5	-1,662.1	-81.3	1,661.9	0.74	0.74	0.00
10,499.0	89.50	179.40	8,746.5	-1,757.1	-81.1	1,756.8	0.97	0.21	-0.95
10,595.0	89.30	178.50	8,747.5	-1,853.1	-79.3	1,852.8	0.96	-0.21	-0.94
10,690.0	91.50	177.80	8,746.8	-1,948.1	-76.2	1,947.8	2.43	2.32	-0.74
10,786.0	89.10	178.30	8,746.3	-2,044.0	-73.0	2,043.7	2.55	-2.50	0.52
10,881.0	91.10	180.80	8,746.1	-2,139.0	-72.2	2,138.7	3.37	2.11	2.63
10,976.0	91.10	181.10	8,744.3	-2,233.9	-73.8	2,233.7	0.32	0.00	0.32
11,071.0	90.80	180.80	8,742.7	-2,328.9	-75.4	2,328.6	0.45	-0.32	-0.32
11,167.0	91.60	180.80	8,740.7	-2,424.9	-76.7	2,424.6	0.83	0.83	0.00
11,262.0	90.50	179.70	8,739.0	-2,519.9	-77.1	2,519.6	1.64	-1.16	-1.16
11,357.0	87.80	178.00	8,740.4	-2,614.8	-75.2	2,614.6	3.36	-2.84	-1.79
11,453.0	89.50	178.00	8,742.6	-2,710.7	-71.9	2,710.5	1.77	1.77	0.00
11,548.0	90.60	176.60	8,742.6	-2,805.6	-67.4	2,805.4	1.87	1.16	-1.47
11,644.0	89.00	178.90	8,742.9	-2,901.5	-63.6	2,901.3	2.92	-1.67	2.40
11,738.0	90.70	178.70	8,743.1	-2,995.5	-61.6	2,995.3	1.82	1.81	-0.21
11,833.0	88.50	176.90	8,743.8	-3,090.4	-58.0	3,090.2	2.99	-2.32	-1.89
11,928.0	90.30	181.30	8,744.8	-3,185.4	-56.5	3,185.2	5.00	1.89	4.63
12,023.0	87.80	182.60	8,746.4	-3,280.3	-59.7	3,280.1	2.97	-2.63	1.37
12,118.0	87.80	182.00	8,750.0	-3,375.2	-63.6	3,374.9	0.63	0.00	-0.63
12,214.0	89.60	183.40	8,752.2	-3,471.0	-68.1	3,470.8	2.38	1.88	1.46
12,309.0	89.80	183.60	8,752.7	-3,565.9	-73.9	3,565.6	0.30	0.21	0.21
12,404.0	90.90	184.00	8,752.1	-3,660.6	-80.2	3,660.3	1.23	1.16	0.42
12,500.0	90.90	182.20	8,750.6	-3,756.5	-85.4	3,756.2	1.87	0.00	-1.88
12,595.0	91.10	181.50	8,749.0	-3,851.4	-88.4	3,851.1	0.77	0.21	-0.74
12,690.0	90.60	180.80	8,747.5	-3,946.4	-90.3	3,946.1	0.91	-0.53	-0.74



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,785.0	90.50	180.10	8,746.6	-4,041.4	-91.1	4,041.0	0.74	-0.11	-0.74
12,881.0	91.00	179.90	8,745.4	-4,137.4	-91.1	4,137.0	0.56	0.52	-0.21
12,976.0	90.70	179.40	8,744.0	-4,232.4	-90.5	4,232.0	0.61	-0.32	-0.53
13,070.0	91.60	179.70	8,742.1	-4,326.3	-89.8	4,326.0	1.01	0.96	0.32
13,165.0	90.30	181.00	8,740.5	-4,421.3	-90.3	4,421.0	1.94	-1.37	1.37
13,261.0	90.70	182.00	8,739.7	-4,517.3	-92.9	4,516.9	1.12	0.42	1.04
13,357.0	90.00	182.60	8,739.1	-4,613.2	-96.7	4,612.8	0.96	-0.73	0.63
13,462.0	86.60	179.70	8,742.2	-4,718.1	-98.8	4,717.7	4.25	-3.24	-2.76
13,570.0	87.20	179.00	8,748.0	-4,825.9	-97.6	4,825.6	0.85	0.56	-0.65
13,666.0	88.80	179.40	8,751.4	-4,921.9	-96.3	4,921.5	1.72	1.67	0.42
13,762.0	90.00	179.00	8,752.4	-5,017.9	-94.9	5,017.5	1.32	1.25	-0.42
13,856.0	91.40	178.50	8,751.2	-5,111.8	-92.9	5,111.5	1.58	1.49	-0.53
13,952.0	90.00	178.70	8,750.1	-5,207.8	-90.5	5,207.4	1.47	-1.46	0.21
14,047.0	89.10	179.00	8,750.8	-5,302.8	-88.6	5,302.4	1.00	-0.95	0.32
14,141.0	90.50	179.00	8,751.1	-5,396.7	-87.0	5,396.4	1.49	1.49	0.00
14,237.0	91.30	178.20	8,749.6	-5,492.7	-84.6	5,492.4	1.18	0.83	-0.83
14,332.0	90.00	176.40	8,748.6	-5,587.6	-80.1	5,587.3	2.34	-1.37	-1.89
14,428.0	89.70	174.30	8,748.8	-5,683.3	-72.4	5,683.0	2.21	-0.31	-2.19
14,525.0	90.10	177.10	8,749.0	-5,780.0	-65.1	5,779.7	2.92	0.41	2.89
14,620.0	91.50	177.10	8,747.7	-5,874.8	-60.3	5,874.6	1.47	1.47	0.00
14,715.0	90.10	177.50	8,746.3	-5,969.7	-55.8	5,969.5	1.53	-1.47	0.42
14,809.0	87.10	178.20	8,748.6	-6,063.6	-52.3	6,063.4	3.28	-3.19	0.74
14,903.0	90.30	181.10	8,750.8	-6,157.6	-51.7	6,157.4	4.59	3.40	3.09
14,998.0	91.10	182.70	8,749.6	-6,252.5	-54.9	6,252.3	1.88	0.84	1.68
15,093.0	91.30	182.70	8,747.6	-6,347.4	-59.3	6,347.1	0.21	0.21	0.00
15,187.0	88.50	182.00	8,747.8	-6,441.3	-63.2	6,441.0	3.07	-2.98	-0.74
15,281.0	90.50	182.70	8,748.6	-6,535.2	-67.0	6,534.9	2.25	2.13	0.74
15,377.0	91.30	182.20	8,747.1	-6,631.1	-71.2	6,630.8	0.98	0.83	-0.52
15,472.0	90.70	181.70	8,745.4	-6,726.0	-74.4	6,725.7	0.82	-0.63	-0.53
15,569.0	85.80	180.60	8,748.4	-6,822.9	-76.3	6,822.6	5.18	-5.05	-1.13
15,665.0	85.80	179.90	8,755.4	-6,918.7	-76.7	6,918.4	0.73	0.00	-0.73
15,760.0	88.50	179.90	8,760.1	-7,013.6	-76.6	7,013.2	2.84	2.84	0.00
15,856.0	90.00	179.20	8,761.4	-7,109.5	-75.8	7,109.2	1.72	1.56	-0.73
15,951.0	92.10	179.70	8,759.7	-7,204.5	-74.9	7,204.2	2.27	2.21	0.53
16,045.0	90.80	178.70	8,757.3	-7,298.5	-73.6	7,298.2	1.74	-1.38	-1.06
16,141.0	92.10	178.70	8,754.8	-7,394.4	-71.4	7,394.1	1.35	1.35	0.00
16,236.0	90.90	178.70	8,752.4	-7,489.4	-69.3	7,489.1	1.26	-1.26	0.00
16,331.0	87.20	178.20	8,753.9	-7,584.3	-66.7	7,584.0	3.93	-3.89	-0.53
16,426.0	89.70	179.60	8,756.5	-7,679.2	-64.9	7,679.0	3.02	2.63	1.47
16,521.0	91.50	179.90	8,755.5	-7,774.2	-64.5	7,773.9	1.92	1.89	0.32
16,617.0	89.30	179.60	8,754.8	-7,870.2	-64.0	7,869.9	2.31	-2.29	-0.31
16,712.0	91.00	179.20	8,754.6	-7,965.2	-63.1	7,964.9	1.84	1.79	-0.42
16,808.0	89.90	179.90	8,753.8	-8,061.2	-62.3	8,060.9	1.36	-1.15	0.73



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #20H
Project:	Eddy County, NM	TVD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Site:	Sec 4, T25S, R29E	MD Reference:	RKB (GL+27') @ 3025.0usft (Frontier #27)
Well:	Corral Canyon Federal #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,903.0	91.20	179.90	8,752.9	-8,156.2	-62.1	8,155.9	1.37	1.37	0.00	
16,997.0	89.20	179.40	8,752.6	-8,250.2	-61.6	8,249.9	2.19	-2.13	-0.53	
17,092.0	90.90	179.60	8,752.5	-8,345.2	-60.7	8,344.9	1.80	1.79	0.21	
17,187.0	88.70	179.00	8,752.8	-8,440.2	-59.6	8,439.9	2.40	-2.32	-0.63	
17,282.0	89.20	178.30	8,754.6	-8,535.1	-57.3	8,534.9	0.91	0.53	-0.74	
17,376.0	91.00	178.50	8,754.4	-8,629.1	-54.7	8,628.8	1.93	1.91	0.21	
17,471.0	90.30	179.40	8,753.3	-8,724.1	-53.0	8,723.8	1.20	-0.74	0.95	
17,566.0	90.70	179.60	8,752.5	-8,819.0	-52.1	8,818.8	0.47	0.42	0.21	
17,661.0	88.50	178.70	8,753.2	-8,914.0	-50.7	8,913.8	2.50	-2.32	-0.95	
17,756.0	88.90	177.50	8,755.3	-9,008.9	-47.6	9,008.7	1.33	0.42	-1.26	
17,851.0	88.60	178.70	8,757.4	-9,103.9	-44.4	9,103.7	1.30	-0.32	1.26	
17,947.0	91.40	181.80	8,757.4	-9,199.8	-44.9	9,199.6	4.35	2.92	3.23	
18,040.0	92.60	182.40	8,754.2	-9,292.7	-48.3	9,292.5	1.44	1.29	0.65	
18,136.0	90.20	180.40	8,751.8	-9,388.7	-50.6	9,388.4	3.25	-2.50	-2.08	
18,231.0	88.80	179.90	8,752.6	-9,483.7	-50.8	9,483.4	1.56	-1.47	-0.53	
18,326.0	89.30	179.60	8,754.2	-9,578.6	-50.4	9,578.4	0.61	0.53	-0.32	
18,421.0	89.90	179.40	8,754.9	-9,673.6	-49.6	9,673.4	0.67	0.63	-0.21	
18,517.0	89.30	178.00	8,755.6	-9,769.6	-47.4	9,769.4	1.59	-0.63	-1.46	
18,611.0	92.00	179.40	8,754.5	-9,863.6	-45.3	9,863.3	3.24	2.87	1.49	
18,706.0	90.10	179.40	8,752.7	-9,958.5	-44.3	9,958.3	2.00	-2.00	0.00	
18,802.0	90.20	181.50	8,752.5	-10,054.5	-45.1	10,054.3	2.19	0.10	2.19	
18,897.0	88.30	181.80	8,753.7	-10,149.5	-47.8	10,149.2	2.02	-2.00	0.32	
18,993.0	89.50	181.80	8,755.6	-10,245.4	-50.8	10,245.2	1.25	1.25	0.00	
19,086.0	91.20	182.00	8,755.0	-10,338.3	-53.9	10,338.1	1.84	1.83	0.22	
19,181.0	89.90	180.60	8,754.1	-10,433.3	-56.0	10,433.1	2.01	-1.37	-1.47	
19,277.0	90.90	180.30	8,753.4	-10,529.3	-56.8	10,529.0	1.09	1.04	-0.31	
19,372.0	92.30	180.10	8,750.8	-10,624.3	-57.1	10,624.0	1.49	1.47	-0.21	
Cross 100' HL@ 19436.9' MD / 8748.2' TVD										
19,436.9	92.30	180.10	8,748.2	-10,689.1	-57.2	10,688.9	0.00	0.00	0.00	
TD @ 19486.0' MD / 8746.2' TVD										
19,486.0	92.30	180.10	8,746.2	-10,738.2	-57.3	10,737.9	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,879.0	7,854.9	267.2	-176.4	Gyro Tie-in @ 7879.0' MD / 7854.9' TVD	
8,900.7	8,671.4	-170.8	-159.8	Cross LL@ 8900.7' MD / 8671.4' TVD	
9,008.3	8,708.4	-271.6	-152.8	Cross 100' HL@ 9008.3' MD / 8708.4' TVD	
19,436.9	8,748.2	-10,689.1	-57.2	Cross 100' HL@ 19436.9' MD / 8748.2' TVD	
19,486.0	8,746.2	-10,738.2	-57.3	TD @ 19486.0' MD / 8746.2' TVD	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 15889

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	5380	15889	C-104C

OCD Reviewer	Condition
abustamante	01/27/2021 - Request for NMOCD extension of time to file BLM-Approved form 3160-4. File 3160-4 within 10 days to NMOCD after BLM approval.