

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

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 30-015-45593	² Pool Code 96217	³ Pool Name Wilow Lake-Bone Spring, SE
⁴ Property Code 314121	⁵ Property Name CORRAL CANYON FEDERAL	⁶ Well Number 221H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 3,035'

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
J	10	25 S	29 E		1,895	SOUTH	2,080	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
2	3	25 S	29 E		22	NORTH	1,976	EAST	EDDY

¹² Dedicated Acres 239.75	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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		GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 415,722.6 X= 612,463.3 LAT.= 32.142417°N LONG.= 103.969981°W FIRST TAKE POINT NAD 27 NME Y= 416,693.4 X= 612,556.1 LAT.= 32.145084°N LONG.= 103.969670°W KICK OFF POINT NAD 27 NME Y= 416,026.6 X= 612,549.0 LAT.= 32.143251°N LONG.= 103.969700°W KICK OFF POINT NAD 83 NME Y= 416,085.0 X= 653,733.3 LAT.= 32.143375°N LONG.= 103.970187°W LAST TAKE POINT NAD 27 NME Y= 424,291.1 X= 612,555.9 LAT.= 32.165970°N LONG.= 103.969588°W BOTTOM HOLE LOCATION NAD 27 NME Y= 424,428.1 X= 612,556.8 LAT.= 32.166347°N LONG.= 103.969583°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 415,781.0 X= 653,647.6 LAT.= 32.142540°N LONG.= 103.970467°W FIRST TAKE POINT NAD 83 NME Y= 416,751.8 X= 653,740.4 LAT.= 32.145208°N LONG.= 103.970157°W CORNER COORDINATES TABLE NAD 27 NME <table border="1"> <tr><td>A - Y= 415,154.2 N, X= 611,890.8 E</td></tr> <tr><td>B - Y= 415,164.8 N, X= 613,217.7 E</td></tr> <tr><td>C - Y= 416,486.4 N, X= 611,888.2 E</td></tr> <tr><td>D - Y= 416,494.8 N, X= 613,214.7 E</td></tr> <tr><td>E - Y= 419,144.1 N, X= 611,883.1 E</td></tr> <tr><td>F - Y= 419,151.6 N, X= 613,208.3 E</td></tr> <tr><td>G - Y= 421,798.1 N, X= 611,875.2 E</td></tr> <tr><td>H - Y= 421,806.5 N, X= 613,204.3 E</td></tr> <tr><td>I - Y= 424,447.5 N, X= 611,867.3 E</td></tr> <tr><td>J - Y= 424,452.8 N, X= 613,199.9 E</td></tr> </table> CORNER COORDINATES TABLE NAD 83 NME <table border="1"> <tr><td>A - Y= 415,212.6 N, X= 653,075.1 E</td></tr> <tr><td>B - Y= 415,223.2 N, X= 654,402.1 E</td></tr> <tr><td>C - Y= 416,544.8 N, X= 653,072.5 E</td></tr> <tr><td>D - Y= 416,553.2 N, X= 654,399.0 E</td></tr> <tr><td>E - Y= 419,202.6 N, X= 653,067.3 E</td></tr> <tr><td>F - Y= 419,210.1 N, X= 654,392.5 E</td></tr> <tr><td>G - Y= 421,856.6 N, X= 653,059.3 E</td></tr> <tr><td>H - Y= 421,865.0 N, X= 654,388.5 E</td></tr> <tr><td>I - Y= 424,506.1 N, X= 653,051.4 E</td></tr> <tr><td>J - Y= 424,511.4 N, X= 654,384.0 E</td></tr> </table> LAST TAKE POINT NAD 83 NME Y= 424,349.7 X= 653,740.0 LAT.= 32.166094°N LONG.= 103.970075°W BOTTOM HOLE LOCATION NAD 83 NME Y= 424,486.7 X= 653,740.9 LAT.= 32.166471°N LONG.= 103.970071°W	A - Y= 415,154.2 N, X= 611,890.8 E	B - Y= 415,164.8 N, X= 613,217.7 E	C - Y= 416,486.4 N, X= 611,888.2 E	D - Y= 416,494.8 N, X= 613,214.7 E	E - Y= 419,144.1 N, X= 611,883.1 E	F - Y= 419,151.6 N, X= 613,208.3 E	G - Y= 421,798.1 N, X= 611,875.2 E	H - Y= 421,806.5 N, X= 613,204.3 E	I - Y= 424,447.5 N, X= 611,867.3 E	J - Y= 424,452.8 N, X= 613,199.9 E	A - Y= 415,212.6 N, X= 653,075.1 E	B - Y= 415,223.2 N, X= 654,402.1 E	C - Y= 416,544.8 N, X= 653,072.5 E	D - Y= 416,553.2 N, X= 654,399.0 E	E - Y= 419,202.6 N, X= 653,067.3 E	F - Y= 419,210.1 N, X= 654,392.5 E	G - Y= 421,856.6 N, X= 653,059.3 E	H - Y= 421,865.0 N, X= 654,388.5 E	I - Y= 424,506.1 N, X= 653,051.4 E	J - Y= 424,511.4 N, X= 654,384.0 E	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. <i>Cassie Evans</i> 09/05/2020 Signature Date Cassie Evans Printed Name cassie_evans@xtoenergy.com E-mail Address
A - Y= 415,154.2 N, X= 611,890.8 E																								
B - Y= 415,164.8 N, X= 613,217.7 E																								
C - Y= 416,486.4 N, X= 611,888.2 E																								
D - Y= 416,494.8 N, X= 613,214.7 E																								
E - Y= 419,144.1 N, X= 611,883.1 E																								
F - Y= 419,151.6 N, X= 613,208.3 E																								
G - Y= 421,798.1 N, X= 611,875.2 E																								
H - Y= 421,806.5 N, X= 613,204.3 E																								
I - Y= 424,447.5 N, X= 611,867.3 E																								
J - Y= 424,452.8 N, X= 613,199.9 E																								
A - Y= 415,212.6 N, X= 653,075.1 E																								
B - Y= 415,223.2 N, X= 654,402.1 E																								
C - Y= 416,544.8 N, X= 653,072.5 E																								
D - Y= 416,553.2 N, X= 654,399.0 E																								
E - Y= 419,202.6 N, X= 653,067.3 E																								
F - Y= 419,210.1 N, X= 654,392.5 E																								
G - Y= 421,856.6 N, X= 653,059.3 E																								
H - Y= 421,865.0 N, X= 654,388.5 E																								
I - Y= 424,506.1 N, X= 653,051.4 E																								
J - Y= 424,511.4 N, X= 654,384.0 E																								
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: <i>Mark Dillon Harp</i> MARK DILLON HARP 23786 Certificate Number JC 2017122138																								

Intent ☐ As Drilled ☒

API # 30-015-45593		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Corral Canyon Federal	Well Number 221H

Kick Off Point (KOP)

UL J	Section 10	Township 25S	Range 29E	Lot	Feet 1895	From N/S South	Feet 2080	From E/W East	County Eddy
Latitude 32.142540					Longitude -103.970467				NAD 83

First Take Point (FTP)

UL G	Section 10	Township 25S	Range 29E	Lot	Feet 2455	From N/S North	Feet 1985	From E/W East	County Eddy
Latitude 32.145208					Longitude -103.970157				NAD 83

Last Take Point (LTP)

UL	Section 3	Township 25S	Range 29E	Lot 2	Feet 22	From N/S North	Feet 1976	From E/W East	County Eddy
Latitude 32.166471					Longitude -103.970071				NAD 83

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 # 30-015-43709		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Corral Canyon Federal	Well Number 8H

KZ 06/29/2018



XTO ENERGY, INC.

Eddy County, NM

Sec 10, T25S, R29E

Corral Canyon Federal #221H

Wellbore #1

Design: Wellbore #1

QES Survey Certification Report

20 August, 2019





State of New Mexico
County of Eddy

I, Jeremy Esqueda, certify that: I am employed by WellBenders Directional Services LLC; that I did on the day(s) of July 6, 2019 through July 17, 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 0 feet to a depth of 7,248feet; that the data is true, correct, complete and within the limitations of the tool as set forth by WellBenders Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc. for the State of New Mexico; Well: Corral Canyon 3- 34 Federal 221 in Eddy County; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by WellBenders Directional Services LLC.

Jeremy Esqueda
(Sign Name)

Jeremy Esqueda

MWD Manager

Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
XTO Energy, Inc	WT-191206	8/21/2019

Lease	Well Name	County & State
Sec 10, T25S, 29E,	Corral Canyon Federal 221H	Eddy, New Mexico

API No.	Survey Depth Range	Survey Type
30-015-45593	7,248 feet to 16,970 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Jeff Leschuck

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Kristopher Ray

Digitally signed by Kristopher Ray
DN: cn=Kristopher Ray, o=Regulatory
Compliance Manager, ou=QES DD,
email=kris.ray@qesinc.com, c=US
Date: 2019.08.27 20:58:44 -05'00'

Kristopher Ray
Regulatory Compliance Manager
Quintana Energy Services

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #221H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3051.5usft (Trinidad #429)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3051.5usft (Trinidad #429)
Well:	Corral Canyon Federal #221H	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 10, T25S, R29E			
Site Position:		Northing:	418,642.60 usft	Latitude:	32° 9' 1.624 N
From:	Map	Easting:	611,643.50 usft	Longitude:	103° 58' 21.351 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.19 °

Well	Corral Canyon Federal #221H					
Well Position	+N/-S	0.0 usft	Northing:	415,722.60 usft	Latitude:	32° 8' 32.700 N
	+E/-W	0.0 usft	Easting:	612,463.30 usft	Longitude:	103° 58' 11.930 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,035.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	8/8/2019	6.94	59.94	47,810.00000000

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	359.94

Survey Program	Date	8/20/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
105.0	7,248.0	Wellbeners Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	
7,248.0	16,970.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
7,248.0	3.80	326.40	7,239.7	276.5	89.0	290.5	17.85	
MWD Tie-in @ 7248.0' MD / 7239.7' TVD								
7,374.0	2.80	307.80	7,365.5	281.9	84.3	294.2	16.65	
7,497.0	2.30	283.80	7,488.4	284.3	79.5	295.2	15.62	
7,623.0	3.50	341.00	7,614.3	288.5	75.8	298.3	14.72	
7,750.0	3.90	37.90	7,741.0	295.6	77.2	305.5	14.63	
7,875.0	0.98	80.50	7,865.9	299.1	80.9	309.9	15.12	
8,002.0	1.10	32.50	7,992.9	300.4	82.6	311.5	15.37	
8,128.0	1.20	45.60	8,118.9	302.3	84.2	313.8	15.56	
8,186.0	1.60	44.90	8,176.9	303.3	85.2	315.0	15.69	
8,217.0	3.77	34.63	8,207.8	304.4	86.1	316.4	15.79	

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #221H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3051.5usft (Trinidad #429)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3051.5usft (Trinidad #429)
Well:	Corral Canyon Federal #221H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
8,249.0	6.74	29.96	8,239.7	306.9	87.6	319.2	15.93	
8,280.0	9.68	27.05	8,270.4	310.8	89.7	323.5	16.10	
8,312.0	12.61	25.33	8,301.8	316.4	92.4	329.6	16.28	
8,343.0	15.19	24.57	8,331.8	323.1	95.5	337.0	16.47	
8,375.0	17.31	23.08	8,362.6	331.3	99.2	345.9	16.66	
8,406.0	19.86	20.03	8,392.0	340.5	102.8	355.7	16.79	
8,438.0	22.75	16.90	8,421.8	351.6	106.4	367.3	16.84	
8,470.0	25.53	12.67	8,451.0	364.2	109.7	380.4	16.77	
8,501.0	28.11	8.21	8,478.6	378.0	112.3	394.3	16.54	
8,533.0	30.52	3.39	8,506.5	393.5	113.8	409.7	16.13	
8,564.0	32.76	359.59	8,532.9	409.8	114.2	425.4	15.57	
8,596.0	34.15	357.71	8,559.6	427.4	113.8	442.3	14.91	
8,628.0	36.59	357.30	8,585.7	445.9	113.0	460.0	14.22	
8,660.0	39.96	356.76	8,610.8	465.7	112.0	479.0	13.52	
8,691.0	43.87	356.86	8,633.9	486.4	110.8	498.8	12.83	
8,722.0	48.29	356.93	8,655.4	508.7	109.6	520.3	12.16	
8,754.0	51.36	356.99	8,676.0	533.1	108.3	544.0	11.48	
8,786.0	53.86	357.20	8,695.5	558.5	107.0	568.6	10.85	
8,817.0	56.22	357.87	8,713.2	583.9	105.9	593.4	10.28	
8,849.0	57.95	358.73	8,730.6	610.7	105.1	619.7	9.77	
8,880.0	58.39	359.53	8,747.0	637.0	104.7	645.6	9.34	
8,912.0	60.58	359.22	8,763.2	664.6	104.4	672.8	8.93	
8,944.0	64.69	358.99	8,777.9	693.0	104.0	700.8	8.53	
8,975.0	68.83	357.86	8,790.1	721.5	103.2	728.8	8.14	
9,007.0	71.54	357.70	8,801.0	751.6	102.0	758.5	7.73	
9,039.0	74.09	357.51	8,810.4	782.1	100.8	788.6	7.34	
9,070.0	76.00	357.85	8,818.4	812.0	99.5	818.1	6.99	
9,102.0	77.96	357.60	8,825.7	843.2	98.3	848.9	6.65	
9,134.0	80.04	357.61	8,831.8	874.6	97.0	879.9	6.33	
9,166.0	82.31	357.55	8,836.7	906.2	95.7	911.2	6.03	
9,197.0	84.11	357.49	8,840.3	936.9	94.3	941.6	5.75	
9,229.0	85.68	357.59	8,843.2	968.7	93.0	973.2	5.48	
9,260.0	87.50	357.56	8,845.0	999.7	91.6	1,003.9	5.24	
9,323.0	89.47	357.41	8,846.7	1,062.6	88.9	1,066.3	4.78	
9,386.0	90.61	359.21	8,846.7	1,125.5	87.0	1,128.9	4.42	
9,450.0	91.82	0.01	8,845.3	1,189.5	86.6	1,192.7	4.16	
9,513.0	92.21	0.94	8,843.1	1,252.5	87.1	1,255.5	3.98	
9,576.0	89.47	1.13	8,842.2	1,315.5	88.2	1,318.4	3.84	
9,639.0	87.82	1.07	8,843.6	1,378.4	89.5	1,381.3	3.71	
9,703.0	90.17	1.13	8,844.8	1,442.4	90.7	1,445.3	3.60	
9,766.0	92.13	0.89	8,843.5	1,505.4	91.8	1,508.2	3.49	
9,829.0	92.35	1.14	8,841.0	1,568.3	92.9	1,571.1	3.39	
9,892.0	90.81	1.61	8,839.3	1,631.3	94.4	1,634.0	3.31	
9,955.0	89.11	1.77	8,839.3	1,694.2	96.3	1,697.0	3.25	

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #221H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3051.5usft (Trinidad #429)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3051.5usft (Trinidad #429)
Well:	Corral Canyon Federal #221H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
10,018.0	89.41	1.94	8,840.2	1,757.2	98.3	1,760.0	3.20	
10,082.0	91.96	2.73	8,839.4	1,821.1	100.9	1,823.9	3.17	
10,145.0	89.39	2.04	8,838.7	1,884.1	103.5	1,886.9	3.15	
10,208.0	87.23	1.37	8,840.5	1,947.0	105.4	1,949.9	3.10	
10,271.0	87.62	0.76	8,843.3	2,009.9	106.6	2,012.8	3.04	
10,334.0	89.27	0.76	8,845.1	2,072.9	107.4	2,075.7	2.97	
10,397.0	88.91	0.61	8,846.1	2,135.9	108.2	2,138.6	2.90	
10,460.0	89.58	0.76	8,846.9	2,198.9	108.9	2,201.6	2.84	
10,523.0	88.99	359.84	8,847.7	2,261.9	109.3	2,264.5	2.77	
10,587.0	89.83	0.03	8,848.3	2,325.9	109.2	2,328.4	2.69	
10,650.0	89.11	0.15	8,848.9	2,388.9	109.3	2,391.4	2.62	
10,713.0	89.78	0.45	8,849.5	2,451.9	109.6	2,454.3	2.56	
10,776.0	90.31	0.53	8,849.5	2,514.9	110.2	2,517.3	2.51	
10,840.0	89.50	1.09	8,849.6	2,578.9	111.1	2,581.3	2.47	
10,903.0	90.64	1.85	8,849.5	2,641.8	112.7	2,644.2	2.44	
10,966.0	90.14	1.76	8,849.1	2,704.8	114.7	2,707.2	2.43	
11,030.0	87.71	1.17	8,850.3	2,768.8	116.3	2,771.2	2.41	
11,093.0	88.10	1.00	8,852.6	2,831.7	117.5	2,834.2	2.38	
11,157.0	90.25	1.09	8,853.5	2,895.7	118.7	2,898.1	2.35	
11,220.0	92.27	1.45	8,852.1	2,958.7	120.1	2,961.1	2.32	
11,283.0	92.35	1.14	8,849.6	3,021.6	121.5	3,024.0	2.30	
11,346.0	91.07	0.97	8,847.7	3,084.6	122.6	3,087.0	2.28	
11,410.0	89.94	0.37	8,847.1	3,148.6	123.4	3,151.0	2.24	
11,473.0	89.13	0.35	8,847.6	3,211.5	123.8	3,213.9	2.21	
11,536.0	88.07	359.08	8,849.2	3,274.5	123.5	3,276.9	2.16	
11,599.0	88.77	358.41	8,850.9	3,337.5	122.1	3,339.7	2.09	
11,662.0	88.43	357.91	8,852.5	3,400.4	120.1	3,402.6	2.02	
11,725.0	88.99	357.76	8,853.9	3,463.4	117.7	3,465.4	1.95	
11,788.0	90.59	357.66	8,854.1	3,526.3	115.2	3,528.2	1.87	
11,851.0	89.55	357.58	8,854.0	3,589.3	112.6	3,591.0	1.80	
11,914.0	89.86	357.74	8,854.4	3,652.2	110.0	3,653.9	1.72	
11,978.0	91.40	357.55	8,853.6	3,716.2	107.3	3,717.7	1.65	
12,041.0	90.00	357.36	8,852.9	3,779.1	104.6	3,780.5	1.58	
12,104.0	90.11	357.41	8,852.8	3,842.0	101.7	3,843.4	1.52	
12,167.0	91.37	357.02	8,852.0	3,904.9	98.6	3,906.2	1.45	
12,231.0	90.47	357.47	8,851.0	3,968.9	95.5	3,970.0	1.38	
12,294.0	90.97	358.94	8,850.2	4,031.8	93.6	4,032.9	1.33	
12,357.0	90.53	359.62	8,849.4	4,094.8	92.8	4,095.9	1.30	
12,421.0	88.85	359.29	8,849.7	4,158.8	92.2	4,159.8	1.27	
12,483.0	91.62	0.28	8,849.5	4,220.8	91.9	4,221.8	1.25	
12,547.0	90.10	359.66	8,848.5	4,284.8	91.9	4,285.8	1.23	
12,610.0	89.21	0.08	8,848.9	4,347.8	91.8	4,348.7	1.21	
12,673.0	89.97	0.25	8,849.3	4,410.8	91.9	4,411.7	1.19	
12,736.0	89.27	0.42	8,849.7	4,473.8	92.3	4,474.7	1.18	
12,799.0	88.99	0.20	8,850.7	4,536.8	92.6	4,537.7	1.17	



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #221H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3051.5usft (Trinidad #429)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3051.5usft (Trinidad #429)
Well:	Corral Canyon Federal #221H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
12,862.0	89.35	359.81	8,851.6	4,599.8	92.7	4,600.7	1.15	
12,926.0	90.19	359.72	8,851.9	4,663.8	92.4	4,664.7	1.13	
12,989.0	89.35	0.07	8,852.1	4,726.8	92.3	4,727.7	1.12	
13,052.0	90.53	0.76	8,852.2	4,789.8	92.7	4,790.6	1.11	
13,116.0	89.13	0.38	8,852.4	4,853.7	93.4	4,854.6	1.10	
13,179.0	89.88	0.80	8,852.9	4,916.7	94.0	4,917.6	1.10	
13,242.0	88.96	0.96	8,853.6	4,979.7	95.0	4,980.6	1.09	
13,305.0	89.15	1.20	8,854.6	5,042.7	96.2	5,043.6	1.09	
13,368.0	89.21	1.00	8,855.5	5,105.7	97.4	5,106.6	1.09	
13,432.0	88.65	0.60	8,856.7	5,169.7	98.3	5,170.6	1.09	
13,495.0	88.60	0.31	8,858.2	5,232.7	98.8	5,233.6	1.08	
13,558.0	90.72	1.08	8,858.6	5,295.6	99.5	5,296.6	1.08	
13,621.0	90.22	0.49	8,858.1	5,358.6	100.4	5,359.6	1.07	
13,685.0	91.14	0.98	8,857.3	5,422.6	101.2	5,423.6	1.07	
13,748.0	91.20	1.52	8,856.0	5,485.6	102.6	5,486.6	1.07	
13,812.0	90.75	1.49	8,854.9	5,549.6	104.3	5,550.5	1.08	
13,874.0	90.25	1.49	8,854.4	5,611.5	105.9	5,612.5	1.08	
13,938.0	90.13	2.07	8,854.2	5,675.5	107.9	5,676.5	1.09	
14,001.0	90.80	2.72	8,853.7	5,738.5	110.5	5,739.5	1.10	
14,064.0	89.52	1.83	8,853.5	5,801.4	113.0	5,802.5	1.12	
14,127.0	89.88	2.37	8,853.8	5,864.4	115.3	5,865.5	1.13	
14,191.0	90.39	3.15	8,853.7	5,928.3	118.4	5,929.5	1.14	
14,254.0	90.30	2.11	8,853.3	5,991.2	121.3	5,992.4	1.16	
14,317.0	90.95	1.18	8,852.6	6,054.2	123.1	6,055.4	1.16	
14,380.0	91.31	0.73	8,851.4	6,117.2	124.2	6,118.4	1.16	
14,443.0	90.53	359.11	8,850.3	6,180.2	124.1	6,181.4	1.15	
14,506.0	89.88	357.15	8,850.1	6,243.1	122.0	6,244.3	1.12	
14,569.0	90.80	356.46	8,849.7	6,306.0	118.5	6,307.1	1.08	
14,632.0	92.09	356.89	8,848.2	6,368.9	114.8	6,369.9	1.03	
14,695.0	92.26	357.23	8,845.8	6,431.8	111.6	6,432.7	0.99	
14,758.0	92.48	356.94	8,843.2	6,494.6	108.4	6,495.5	0.96	
14,822.0	91.42	357.73	8,841.0	6,558.5	105.4	6,559.4	0.92	
14,885.0	89.58	357.59	8,840.4	6,621.5	102.9	6,622.3	0.89	
14,948.0	89.30	357.93	8,841.0	6,684.4	100.4	6,685.2	0.86	
15,011.0	89.21	358.62	8,841.9	6,747.4	98.5	6,748.1	0.84	
15,074.0	88.09	358.79	8,843.4	6,810.3	97.1	6,811.0	0.82	
15,137.0	88.96	359.77	8,845.0	6,873.3	96.3	6,874.0	0.80	
15,200.0	89.63	0.62	8,845.7	6,936.3	96.5	6,937.0	0.80	
15,263.0	90.22	0.60	8,845.8	6,999.3	97.2	7,000.0	0.80	
15,327.0	90.80	0.29	8,845.3	7,063.3	97.7	7,064.0	0.79	
15,390.0	89.63	358.85	8,845.0	7,126.3	97.2	7,127.0	0.78	
15,453.0	89.13	357.85	8,845.7	7,189.3	95.4	7,189.9	0.76	
15,516.0	88.79	356.79	8,846.8	7,252.2	92.4	7,252.8	0.73	
15,579.0	89.69	357.49	8,847.7	7,315.1	89.3	7,315.6	0.70	



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #221H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3051.5usft (Trinidad #429)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3051.5usft (Trinidad #429)
Well:	Corral Canyon Federal #221H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
15,645.0	90.95	358.09	8,847.3	7,381.0	86.8	7,381.6		0.67
15,709.0	92.24	358.36	8,845.5	7,445.0	84.8	7,445.5		0.65
15,772.0	91.01	359.23	8,843.7	7,507.9	83.5	7,508.4		0.64
15,835.0	91.20	358.99	8,842.5	7,570.9	82.5	7,571.4		0.62
15,899.0	92.50	359.32	8,840.5	7,634.9	81.5	7,635.3		0.61
15,962.0	91.59	359.69	8,838.2	7,697.8	81.0	7,698.3		0.60
16,025.0	91.46	0.34	8,836.5	7,760.8	81.0	7,761.2		0.60
16,088.0	90.76	1.39	8,835.3	7,823.8	82.0	7,824.2		0.60
16,152.0	90.03	1.65	8,834.9	7,887.8	83.7	7,888.2		0.61
16,214.0	91.07	1.60	8,834.3	7,949.7	85.4	7,950.2		0.62
16,277.0	91.49	1.73	8,832.9	8,012.7	87.2	8,013.2		0.62
16,341.0	89.66	1.23	8,832.2	8,076.7	88.9	8,077.2		0.63
16,404.0	90.06	1.08	8,832.4	8,139.7	90.2	8,140.2		0.63
16,467.0	91.29	1.32	8,831.6	8,202.6	91.5	8,203.2		0.64
16,530.0	90.79	0.21	8,830.5	8,265.6	92.3	8,266.1		0.64
16,594.0	91.37	359.63	8,829.3	8,329.6	92.2	8,330.1		0.63
16,657.0	91.15	0.06	8,827.9	8,392.6	92.1	8,393.1		0.63
16,720.0	88.57	0.19	8,828.1	8,455.6	92.2	8,456.1		0.62
16,784.0	87.47	0.21	8,830.3	8,519.5	92.4	8,520.1		0.62
16,846.0	89.08	0.27	8,832.1	8,581.5	92.7	8,582.0		0.62
16,916.0	90.53	0.42	8,832.4	8,651.5	93.1	8,652.0		0.62
16,970.0	90.53	0.42	8,831.9	8,705.5	93.5	8,706.0		0.62
TD @ 16970.0' MD / 8831.9' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,248.0	7,239.7	276.5	89.0	MWD Tie-in @ 7248.0' MD / 7239.7' TVD	
16,970.0	8,831.9	8,705.5	93.5	TD @ 16970.0' MD / 8831.9' TVD	