

RECEIVED

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

EMNRD-OCD ARTESIA

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015- 45429	² Pool Code 96217	³ Pool Name WILLOW LAKE; BONE SPRING
⁴ Property Code 323015	⁵ Property Name CORRAL CANYON 10-15 FED COM	
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁶ Well Number 12H ⁹ Elevation 3,028'

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
A	10	25 S	29 E		315	NORTH	330	EAST	EDDY

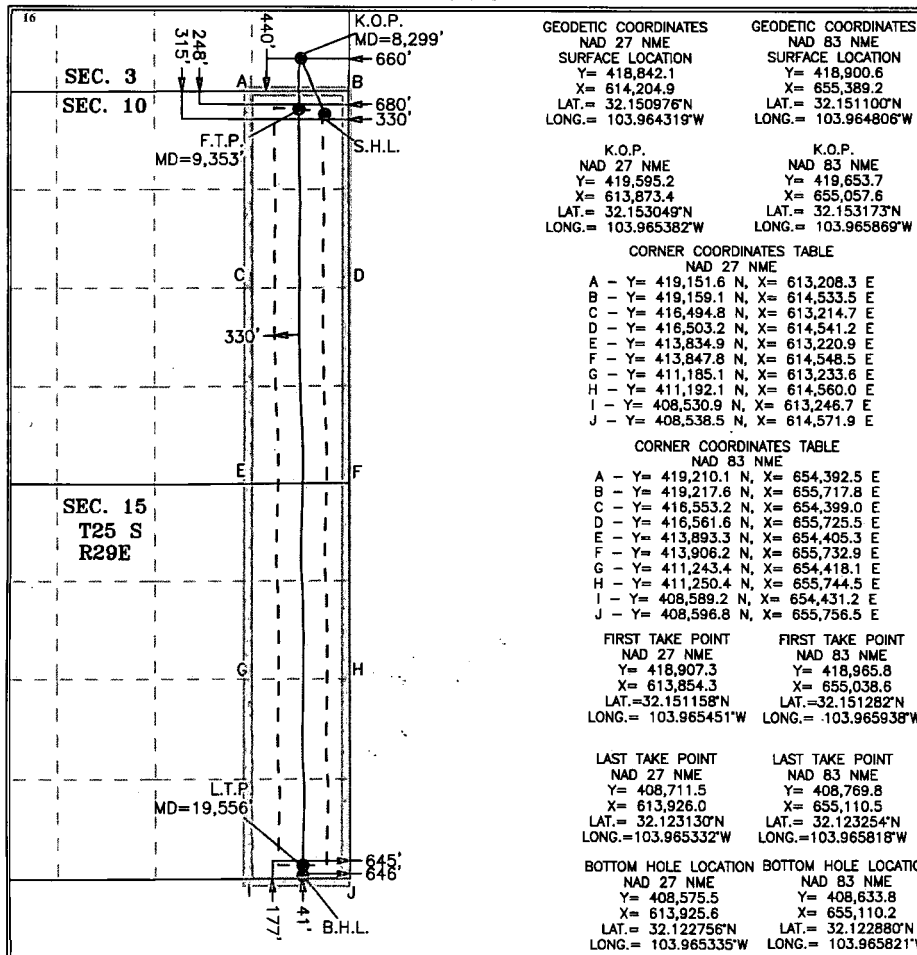
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	25 S	29 E		41	SOUTH	646	EAST	EDDY

¹² Dedicated Acres 639.4	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

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.

Cheryl Rowell 1/21/20
Signature Date

Cheryl Rowell

Printed Name

cheryl_rowell@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.

1-20-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number

JC

2017101681



Intent ☐ As Drilled ☒

API # 30-015-45429								
Operator Name: XTO ENERGY INC.			Property Name: CORRAL CANYON 10-15 FED COM			Well Number 12H		

Kick Off Point (KOP)

UL P	Section 3	Township 25S	Range 29E	Lot	Feet 440	From N/S S	Feet 660	From E/W E	County Eddy
Latitude 32.153173					Longitude 103.965869				NAD 83

First Take Point (FTP)

UL A	Section 10	Township 25S	Range 29E	Lot	Feet 248	From N/S N	Feet 680	From E/W E	County Eddy
Latitude 32.151282					Longitude 103.965938				NAD 83

Last Take Point (LTP)

UL P	Section 15	Township 25S	Range 29E	Lot	Feet 177	From N/S S	Feet 645	From E/W E	County Eddy
Latitude 32.123254					Longitude 103.965818				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ Yes

Is this well an infill well? ☐

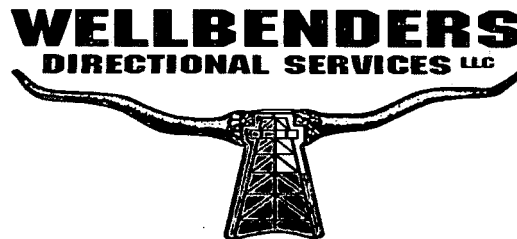
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #								
Operator Name:			Property Name:			Well Number		

RECEIVED

JAN 29 2020

EMNRD-OCD ARTESIA



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 January 11, 2019 through January 15, 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 0 feet to a depth of 3,057 feet; 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 Fed 12H 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
Digitally Signed by Jeremy Esqueda

WELLBENDERS DIRECTIONAL SERVICES

SURVEY REPORT

ADD
NEW
SURVEY

Customer: XTO
Lease / Well: Corral Canyon FED 12H
Field / Block: Nad-27/East Zone

Rig Name & #: Frontier 27
Directional Co: WELLBENDERS
Targ Meas Depth: 0

Targ True Vert. Depth: 0
Magnetic Declination: 6.77
Target Vertical Section: 0.00

Enter your Tie-In information on the coversheet!

v1.3

DATE	NO.	DEPTH	INC	AZM	CL	TVD	VS	+N / -S	+E / -W	DLS	B / D	WALK	SOURCE
	Tie	0	0.00	0.00	0	0	0.00	0.00 N	0.00 E	0.00	0.00	0.00	Tie IN
	1	146	1.20	207.90	146	145.99	-1.35	1.35 S	0.72 W	0.82	0.82	104.18	WellBenders
	2	231	1.20	222.00	85	230.97	-2.80	2.80 S	1.73 W	0.35	0.00	16.59	WellBenders
	3	327	1.00	237.40	96	326.95	-4.00	4.00 S	3.11 W	0.37	-0.21	16.04	WellBenders
	4	414	1.40	236.10	87	413.93	-5.00	5.00 S	4.63 W	0.46	0.46	-1.49	WellBenders
	5	508	1.50	230.00	94	507.90	-6.43	6.43 S	6.52 W	0.20	0.11	-6.49	WellBenders
	6	593	0.80	252.20	85	592.89	-7.33	7.33 S	7.94 W	0.96	-0.82	26.12	WellBenders
	7	656	0.70	315.00	63	655.88	-7.19	7.19 S	8.63 W	1.25	-0.16	99.68	WellBenders
	8	752	1.60	306.20	96	751.86	-5.98	5.98 S	10.13 W	0.95	0.94	-9.17	WellBenders
	9	823	1.70	305.30	71	822.83	-4.79	4.79 S	11.79 W	0.15	0.14	-1.27	WellBenders
	10	911	1.90	298.90	88	910.79	-3.33	3.33 S	14.13 W	0.32	0.23	-7.27	WellBenders
	11	1006	1.80	301.10	95	1005.74	-1.80	1.80 S	16.79 W	0.13	-0.11	2.32	WellBenders
	12	1100	2.00	298.60	94	1099.69	-0.25	0.25 S	19.49 W	0.23	0.21	-2.66	WellBenders
	13	1196	2.10	292.00	96	1195.63	1.21	1.21 N	22.59 W	0.27	0.10	-6.88	WellBenders
	14	1292	2.50	293.90	96	1291.55	2.72	2.72 N	26.14 W	0.42	0.42	1.98	WellBenders
	15	1387	2.70	288.90	95	1386.45	4.28	4.28 N	30.15 W	0.32	0.21	-5.26	WellBenders
	16	1482	3.0	319.6	95	1481.34	6.90	6.90 N	33.88 W	1.62	0.32	32.32	WellBenders
	17	1578	2.6	354.4	96	1577.23	10.98	10.98 N	35.72 W	1.79	-0.42	36.25	WellBenders
	18	1675	2.3	344.5	97	1674.14	15.05	15.05 N	36.45 W	0.53	-0.31	-10.21	WellBenders
	19	1770	2.6	11.1	95	1769.06	19.00	19.00 N	36.55 W	1.23	0.32	-28.00	WellBenders
	20	1866	2.5	9.1	96	1864.96	23.20	23.20 N	35.80 W	0.14	-0.10	-2.08	WellBenders
	21	1962	2.4	10.3	96	1960.88	27.25	27.25 N	35.11 W	0.12	-0.10	1.25	WellBenders
	22	2056	2.5	19.9	94	2054.79	31.11	31.11 N	34.06 W	0.45	0.11	10.21	WellBenders
	23	2152	3.4	32.0	96	2150.66	35.49	35.49 N	31.83 W	1.14	0.94	12.60	WellBenders
	24	2247	2.6	26.3	95	2245.53	39.81	39.81 N	29.39 W	0.90	-0.84	-6.00	WellBenders
	25	2343	2.1	350.2	96	2341.46	43.50	43.50 N	28.72 W	1.60	-0.52	37.60	WellBenders
	26	2439	2.1	8.7	96	2437.39	46.97	46.97 N	28.75 W	0.70	0.00	-19.27	WellBenders
	27	2534	1.7	16.2	95	2532.34	50.05	50.05 N	28.10 W	0.49	-0.42	7.89	WellBenders
	28	2629	1.6	339.7	95	2627.30	52.64	52.64 N	28.17 W	1.09	-0.11	38.42	WellBenders
	29	2724	1.4	341.3	95	2722.27	54.99	54.99 N	29.00 W	0.22	-0.21	1.68	WellBenders
	30	2819	0.8	2.8	95	2817.25	56.75	56.75 N	29.34 W	0.76	-0.63	-22.63	WellBenders
	31	2914	0.7	4.6	95	2912.25	57.99	57.99 N	29.26 W	0.11	-0.11	1.89	WellBenders
	32	3010	1.2	62.1	96	3008.23	59.04	59.04 N	28.32 W	1.06	0.52	59.90	WellBenders
	33	3057	1.2	57.1	47	3055.22	59.54	59.54 N	27.47 W	0.22	0.00	-10.64	WellBenders
													WellBenders
													WellBenders
													WellBenders
													WellBenders
													WellBenders

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-190079	2/6/2019

Lease	Well Name	County & State
SEC 10, T25S, R29E	Corral Canyon 10-15 Federal #12H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
30-015-45429	3057 feet to 19692 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
	Bill Kitchens

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.

Christopher Hughes
MWD Compliance Manager

Christopher
Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES,
ou=compliance,
email=chrish@qeslp.com, c=US
Date: 2019.02.27 09:10:47 -06'00'

Quintana Energy Services



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon 10-15 Federal #12H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 10-15 Federal #12H					
Well Position	+N/-S	0.0 usft	Northing:	418,842.09 usft	Latitude:	32° 9' 3.512 N
	+E/-W	0.0 usft	Easting:	614,204.90 usft	Longitude:	103° 57' 51.549 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,028.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/15/2019	6.96	59.91	47,693.76642126

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	179.79

Survey Program		Date	1/31/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.0	3,057.0	Wellbender Surveys (Wellbore #1)	GYRO-NS	Gyrocompass Gyro	
3,057.0	19,692.0	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 (°)	
3,057.0	1.20	57.10	3,055.2	59.5	-27.5	65.6	335.23	
Tie In @ 3057.0' MD / 3055.2' TVD								
3,156.0	1.10	64.20	3,154.2	60.5	-25.7	65.8	336.95	
3,250.0	2.50	359.90	3,248.2	63.0	-24.9	67.7	338.39	
3,345.0	3.90	342.30	3,343.0	68.1	-25.9	72.9	339.16	
3,440.0	4.10	342.20	3,437.8	74.4	-27.9	79.5	339.42	
3,535.0	6.30	338.80	3,532.4	82.5	-30.9	88.1	339.49	
3,629.0	7.20	335.10	3,625.7	92.7	-35.2	99.1	339.19	
3,725.0	7.70	329.30	3,720.9	103.7	-41.0	111.5	338.40	
3,817.0	7.90	328.80	3,812.1	114.4	-47.5	123.8	337.46	
3,912.0	7.80	341.80	3,906.2	126.1	-52.8	136.7	337.26	



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon 10-15 Federal #12H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 (°)
4,007.0	8.70	343.40	4,000.2	139.1	-56.9	150.3	337.74
4,102.0	8.50	341.60	4,094.1	152.6	-61.2	164.4	338.16
4,197.0	9.90	337.90	4,187.9	166.9	-66.5	179.6	338.28
4,291.0	10.60	337.20	4,280.4	182.3	-72.9	196.3	338.22
4,387.0	10.60	337.90	4,374.8	198.6	-79.6	214.0	338.16
4,480.0	10.60	338.10	4,466.2	214.5	-86.0	231.1	338.15
4,576.0	10.80	339.00	4,560.5	231.1	-92.5	248.9	338.18
4,672.0	10.40	338.30	4,654.9	247.5	-99.0	266.6	338.21
4,768.0	8.70	332.80	4,749.6	262.0	-105.5	282.5	338.07
4,862.0	8.40	331.40	4,842.5	274.4	-112.0	296.4	337.79
4,958.0	8.00	333.50	4,937.5	286.5	-118.4	310.0	337.56
5,052.0	7.90	334.90	5,030.6	298.2	-124.0	323.0	337.42
5,147.0	7.60	335.60	5,124.8	309.9	-129.4	335.8	337.34
5,241.0	8.20	334.40	5,217.9	321.6	-134.8	348.7	337.25
5,337.0	10.00	335.80	5,312.6	335.4	-141.2	363.9	337.16
5,432.0	9.80	336.30	5,406.2	350.3	-147.9	380.2	337.12
5,527.0	9.10	335.50	5,499.9	364.5	-154.2	395.8	337.07
5,622.0	8.20	336.30	5,593.9	377.6	-160.1	410.1	337.03
5,717.0	9.10	333.50	5,687.8	390.5	-166.1	424.4	336.95
5,812.0	8.40	332.10	5,781.7	403.3	-172.7	438.8	336.82
5,907.0	8.10	334.40	5,875.7	415.5	-178.9	452.4	336.71
6,003.0	7.90	336.00	5,970.8	427.6	-184.5	465.7	336.67
6,097.0	8.80	337.20	6,063.8	440.2	-189.9	479.4	336.66
6,193.0	11.60	339.30	6,158.2	456.0	-196.1	496.4	336.72
6,288.0	11.20	339.30	6,251.4	473.5	-202.8	515.1	336.82
6,383.0	10.30	339.20	6,344.7	490.1	-209.1	532.8	336.90
6,478.0	9.20	339.30	6,438.3	505.1	-214.8	548.9	336.97
6,573.0	8.30	338.10	6,532.2	518.6	-220.0	563.3	337.01
6,666.0	9.40	334.80	6,624.1	531.7	-225.7	577.6	337.00
6,762.0	9.70	332.00	6,718.8	545.9	-232.9	593.5	336.90
6,857.0	8.90	329.70	6,812.5	559.4	-240.3	608.8	336.75
6,952.0	8.80	333.20	6,906.4	572.2	-247.3	623.4	336.62
7,047.0	9.80	328.80	7,000.1	585.6	-254.8	638.6	336.49
7,143.0	8.80	323.70	7,094.9	598.5	-263.4	653.9	336.25
7,237.0	7.60	329.30	7,187.9	609.6	-270.8	667.1	336.05
7,333.0	7.10	336.00	7,283.1	620.5	-276.5	679.3	335.99
7,429.0	9.50	343.20	7,378.1	633.5	-281.2	693.1	336.07
7,524.0	8.40	340.90	7,472.0	647.6	-285.7	707.8	336.19
7,620.0	7.40	335.60	7,567.1	659.8	-290.5	721.0	336.24
7,716.0	9.80	335.30	7,662.0	672.9	-296.5	735.3	336.22
7,810.0	12.80	334.60	7,754.1	689.6	-304.3	753.7	336.19
7,906.0	11.20	334.80	7,848.0	707.6	-312.9	773.7	336.15
8,001.0	8.40	341.30	7,941.6	722.5	-319.0	789.8	336.18
8,097.0	6.70	351.10	8,036.8	734.7	-322.1	802.2	336.33



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon 10-15 Federal #12H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 (°)	
8,166.0	5.80	349.20	8,105.4	742.1	-323.4	809.5	336.45	
8,213.0	7.00	338.10	8,152.1	747.1	-324.9	814.7	336.50	
8,260.0	6.40	311.70	8,198.8	751.5	-327.9	820.0	336.42	
8,308.0	5.90	275.50	8,246.5	753.5	-332.4	823.6	336.20	
8,355.0	5.10	226.30	8,293.3	752.3	-336.3	824.1	335.91	
8,403.0	9.20	193.40	8,341.0	747.1	-338.7	820.3	335.61	
8,450.0	14.40	188.20	8,387.0	737.7	-340.5	812.4	335.23	
8,498.0	18.70	191.20	8,433.0	724.2	-342.8	801.2	334.67	
8,545.0	22.20	193.10	8,477.0	708.2	-346.3	788.3	333.94	
8,594.0	24.60	191.00	8,522.0	689.1	-350.3	773.1	333.05	
8,641.0	30.80	185.00	8,563.6	667.5	-353.2	755.2	332.11	
8,689.0	36.50	182.20	8,603.5	641.0	-354.9	732.7	331.03	
8,736.0	41.60	180.80	8,640.0	611.4	-355.6	707.3	329.82	
8,785.0	46.60	180.30	8,675.2	577.3	-355.9	678.2	328.34	
8,832.0	50.60	178.80	8,706.3	542.1	-355.6	648.3	326.73	
8,880.0	54.50	178.70	8,735.4	504.0	-354.8	616.3	324.85	
8,927.0	57.40	178.80	8,761.8	465.0	-354.0	584.4	322.72	
8,975.0	60.80	178.80	8,786.4	423.9	-353.1	551.7	320.20	
9,022.0	63.60	178.30	8,808.3	382.3	-352.0	519.7	317.36	
9,070.0	66.20	177.40	8,828.7	338.9	-350.4	487.5	314.04	
9,117.0	69.70	176.20	8,846.3	295.4	-348.0	456.4	310.33	
9,166.0	74.40	177.40	8,861.4	248.9	-345.4	425.7	305.77	
9,217.0	77.90	179.90	8,873.6	199.4	-344.2	397.8	300.08	
9,261.0	79.80	182.00	8,882.1	156.2	-344.9	378.7	294.36	
9,308.0	82.30	183.90	8,889.5	109.9	-347.3	364.3	287.55	
9,356.0	86.70	184.30	8,894.1	62.2	-350.7	356.2	280.06	
9,403.0	90.70	181.50	8,895.1	15.3	-353.1	353.5	272.48	
9,452.0	91.50	179.70	8,894.2	-33.7	-353.6	355.2	264.56	
9,547.0	94.20	179.20	8,889.5	-128.6	-352.7	375.4	249.97	
9,642.0	91.90	178.70	8,884.4	-223.4	-351.0	416.1	237.52	
9,738.0	89.90	179.70	8,882.9	-319.4	-349.6	473.6	227.59	
9,834.0	89.00	179.60	8,883.8	-415.4	-349.1	542.6	220.04	
9,929.0	89.00	179.60	8,885.5	-510.4	-348.4	617.9	214.32	
10,023.0	89.90	178.70	8,886.4	-604.3	-347.0	696.9	209.86	
10,117.0	91.80	178.10	8,885.0	-698.3	-344.4	778.6	206.25	
10,212.0	90.90	178.80	8,882.7	-793.2	-341.8	863.7	203.31	
10,305.0	88.00	178.30	8,883.6	-886.2	-339.5	949.0	200.96	
10,400.0	88.90	178.00	8,886.2	-981.1	-336.4	1,037.2	198.93	
10,494.0	92.20	179.00	8,885.3	-1,075.0	-333.9	1,125.7	197.26	
10,590.0	89.80	179.40	8,883.6	-1,171.0	-332.6	1,217.3	195.86	
10,685.0	91.20	178.70	8,882.8	-1,266.0	-331.0	1,308.6	194.65	
10,781.0	90.10	180.60	8,881.7	-1,362.0	-330.4	1,401.5	193.64	
10,876.0	89.20	182.50	8,882.3	-1,456.9	-333.0	1,494.5	192.87	
10,972.0	90.60	182.40	8,882.5	-1,552.8	-337.1	1,589.0	192.25	



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon 10-15 Federal #12H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 (°)	
11,067.0	90.20	181.80	8,881.8	-1,647.8	-340.6	1,682.6	191.68	
11,163.0	91.90	181.70	8,880.0	-1,743.7	-343.5	1,777.2	191.14	
11,259.0	90.50	180.80	8,878.0	-1,839.7	-345.6	1,871.8	190.64	
11,355.0	88.90	178.80	8,878.5	-1,935.7	-345.3	1,966.2	190.11	
11,448.0	90.40	178.10	8,879.1	-2,028.6	-342.8	2,057.4	189.59	
11,544.0	92.50	178.30	8,876.7	-2,124.5	-339.7	2,151.5	189.09	
11,639.0	91.00	179.60	8,873.8	-2,219.5	-338.0	2,245.1	188.66	
11,735.0	87.50	181.10	8,875.0	-2,315.4	-338.6	2,340.1	188.32	
11,831.0	89.00	180.40	8,878.0	-2,411.4	-339.8	2,435.2	188.02	
11,927.0	87.70	181.10	8,880.7	-2,507.3	-341.1	2,530.4	187.75	
12,021.0	88.60	181.00	8,883.7	-2,601.3	-342.8	2,623.8	187.51	
12,116.0	91.50	181.30	8,883.7	-2,696.2	-344.7	2,718.2	187.29	
12,211.0	88.50	180.40	8,883.7	-2,791.2	-346.1	2,812.6	187.07	
12,306.0	89.50	179.90	8,885.3	-2,886.2	-346.4	2,906.9	186.84	
12,402.0	90.70	178.80	8,885.2	-2,982.2	-345.3	3,002.1	186.60	
12,495.0	89.10	178.70	8,885.3	-3,075.2	-343.3	3,094.3	186.37	
12,590.0	90.10	178.10	8,886.0	-3,170.1	-340.6	3,188.4	186.13	
12,685.0	92.30	178.30	8,884.0	-3,265.1	-337.6	3,282.5	185.90	
12,780.0	90.40	178.30	8,881.8	-3,360.0	-334.8	3,376.6	185.69	
12,876.0	88.00	179.70	8,883.1	-3,455.9	-333.1	3,472.0	185.51	
12,971.0	89.30	179.60	8,885.3	-3,550.9	-332.6	3,566.5	185.35	
13,067.0	91.20	179.20	8,884.9	-3,646.9	-331.6	3,661.9	185.19	
13,162.0	88.40	177.40	8,885.2	-3,741.8	-328.7	3,756.3	185.02	
13,258.0	89.50	179.00	8,887.0	-3,837.8	-325.7	3,851.6	184.85	
13,353.0	90.00	176.90	8,887.4	-3,932.7	-322.3	3,945.9	184.69	
13,449.0	91.30	176.20	8,886.3	-4,028.5	-316.5	4,040.9	184.49	
13,545.0	89.50	176.20	8,885.7	-4,124.3	-310.2	4,136.0	184.30	
13,639.0	92.50	176.60	8,884.0	-4,218.1	-304.3	4,229.1	184.13	
13,734.0	88.50	178.00	8,883.2	-4,313.0	-299.8	4,323.4	183.98	
13,829.0	89.30	177.80	8,885.0	-4,407.9	-296.3	4,417.8	183.85	
13,924.0	91.50	179.20	8,884.4	-4,502.8	-293.8	4,512.4	183.73	
14,020.0	89.30	179.20	8,883.7	-4,598.8	-292.5	4,608.1	183.64	
14,113.0	90.80	179.60	8,883.6	-4,691.8	-291.5	4,700.9	183.56	
14,209.0	87.90	178.00	8,884.7	-4,787.8	-289.5	4,796.5	183.46	
14,302.0	90.70	181.10	8,885.8	-4,880.8	-288.8	4,889.3	183.39	
14,398.0	91.80	180.60	8,883.7	-4,976.7	-290.2	4,985.2	183.34	
14,492.0	89.40	181.00	8,882.7	-5,070.7	-291.5	5,079.1	183.29	
14,588.0	92.00	182.40	8,881.6	-5,166.6	-294.4	5,175.0	183.26	
14,683.0	90.30	182.50	8,879.7	-5,261.5	-298.4	5,270.0	183.25	
14,779.0	91.50	182.20	8,878.2	-5,357.4	-302.4	5,366.0	183.23	
14,874.0	88.40	181.00	8,878.2	-5,452.4	-305.0	5,460.9	183.20	
14,969.0	89.60	181.50	8,879.9	-5,547.3	-307.1	5,555.8	183.17	
15,064.0	90.00	181.30	8,880.2	-5,642.3	-309.4	5,650.8	183.14	
15,159.0	90.70	181.30	8,879.7	-5,737.3	-311.6	5,745.7	183.11	



QES Survey Certification Report



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Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 (°)
15,255.0	89.30	180.80	8,879.7	-5,833.3	-313.3	5,841.7	183.07
15,350.0	89.50	181.00	8,880.6	-5,928.2	-314.8	5,936.6	183.04
15,447.0	89.60	179.60	8,881.4	-6,025.2	-315.3	6,033.5	183.00
15,542.0	90.00	178.50	8,881.7	-6,120.2	-313.8	6,128.3	182.93
15,637.0	90.00	176.90	8,881.7	-6,215.1	-309.9	6,222.9	182.85
15,733.0	89.80	175.00	8,881.9	-6,310.9	-303.2	6,318.2	182.75
15,828.0	89.30	175.90	8,882.7	-6,405.6	-295.6	6,412.4	182.64
15,922.0	89.20	177.80	8,883.9	-6,499.4	-290.5	6,505.9	182.56
16,018.0	87.90	179.20	8,886.3	-6,595.4	-288.0	6,601.7	182.50
16,113.0	88.20	178.70	8,889.5	-6,690.3	-286.2	6,696.4	182.45
16,208.0	90.30	180.10	8,890.8	-6,785.3	-285.2	6,791.3	182.41
16,304.0	89.80	178.50	8,890.7	-6,881.3	-284.0	6,887.1	182.36
16,399.0	89.20	176.60	8,891.5	-6,976.2	-280.0	6,981.8	182.30
16,494.0	89.10	179.40	8,892.9	-7,071.1	-276.7	7,076.5	182.24
16,589.0	91.40	181.30	8,892.5	-7,166.1	-277.2	7,171.4	182.22
16,684.0	91.80	180.60	8,889.9	-7,261.0	-278.8	7,266.4	182.20
16,779.0	93.10	180.40	8,885.8	-7,355.9	-279.7	7,361.3	182.18
16,875.0	90.20	179.00	8,883.1	-7,451.9	-279.1	7,457.1	182.15
16,970.0	89.70	181.30	8,883.1	-7,546.9	-279.4	7,552.1	182.12
17,066.0	88.20	180.60	8,884.9	-7,642.9	-281.0	7,648.0	182.11
17,162.0	88.50	178.50	8,887.7	-7,738.8	-280.2	7,743.9	182.07
17,257.0	89.40	180.40	8,889.4	-7,833.8	-279.3	7,838.8	182.04
17,353.0	91.30	182.90	8,888.8	-7,929.7	-282.1	7,934.7	182.04
17,448.0	93.10	181.30	8,885.2	-8,024.6	-285.6	8,029.7	182.04
17,571.0	87.60	181.00	8,884.4	-8,147.5	-288.0	8,152.6	182.02
17,666.0	89.00	180.60	8,887.2	-8,242.5	-289.4	8,247.5	182.01
17,762.0	91.00	180.60	8,887.2	-8,338.4	-290.4	8,343.5	181.99
17,857.0	91.50	180.60	8,885.2	-8,433.4	-291.4	8,438.4	181.98
17,952.0	88.50	179.40	8,885.2	-8,528.4	-291.4	8,533.4	181.96
18,046.0	90.20	179.40	8,886.2	-8,622.4	-290.4	8,627.3	181.93
18,141.0	92.20	179.00	8,884.2	-8,717.4	-289.0	8,722.1	181.90
18,236.0	90.80	176.20	8,881.8	-8,812.2	-285.1	8,816.8	181.85
18,332.0	91.40	175.20	8,879.9	-8,907.9	-277.9	8,912.3	181.79
18,427.0	89.70	175.90	8,879.0	-9,002.6	-270.5	9,006.7	181.72
18,522.0	86.80	176.40	8,881.9	-9,097.4	-264.1	9,101.2	181.66
18,617.0	87.30	181.00	8,886.8	-9,192.2	-262.0	9,195.9	181.63
18,711.0	87.00	180.80	8,891.5	-9,286.1	-263.5	9,289.8	181.63
18,808.0	92.90	182.00	8,891.5	-9,383.0	-265.8	9,386.8	181.62
18,901.0	92.80	181.30	8,886.9	-9,475.8	-268.5	9,479.6	181.62
18,996.0	90.90	181.70	8,883.9	-9,570.8	-271.0	9,574.6	181.62
19,091.0	92.50	181.50	8,881.0	-9,665.7	-273.6	9,669.5	181.62
19,186.0	89.70	181.00	8,879.2	-9,760.6	-275.7	9,764.5	181.62
19,281.0	90.80	180.80	8,878.8	-9,855.6	-277.2	9,859.5	181.61
19,376.0	89.70	180.60	8,878.4	-9,950.6	-278.4	9,954.5	181.60
19,470.0	88.90	179.90	8,879.5	-10,044.6	-278.8	10,048.5	181.59



QES Survey Certification Report



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Project:	Eddy County, NM	TVD Reference:	RKB @ 3055.0usft (Frontier #27)
Site:	Sec 10, T25S, R29E	MD Reference:	RKB @ 3055.0usft (Frontier #27)
Well:	Corral Canyon 10-15 Federal #12H	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 (°)
19,566.0	90.80	180.30	8,879.8	-10,140.6	-278.9	10,144.4	181.58
19,643.0	92.00	180.10	8,877.9	-10,217.6	-279.2	10,221.4	181.57
19,692.0	92.00	180.10	8,876.2	-10,266.5	-279.3	10,270.3	181.56
TD @ 19692.0' MD / 8876.2' TVD							

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,057.0	3,055.2	59.5	-27.5	Tie In @ 3057.0' MD / 3055.2' TVD
19,692.0	8,876.2	-10,266.5	-279.3	TD @ 19692.0' MD / 8876.2' TVD