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JAN 14 2020

Form C-102

Revised August 1, 2011

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

MNRD-OCDA

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

¹ API Number 30-015-42925		² Pool Code 96271 96217		³ Pool Name WILLOW LAKE; BONE SPRING		⁴ Well Number SE	
⁴ Property Code 317429		⁵ Property Name CORRAL CANYON FEDERAL				⁶ Well Number 6H	
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.				⁹ Elevation 2,947'	

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
C	9	25 S	29 E		175	NORTH	1,980	WEST	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
N	16	25 S	29 E		9	SOUTH	1,851	WEST	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

	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, territory, entered by the division. Signature: <i>Cheryl Rowell</i> Date: 1/10/20 Printed Name: Cheryl Rowell E-mail Address: cheryl_rowell@xtoenergy.com
	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. Date of Survey: 1-10-2020 Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number: JC 2017101675
	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 418,834.6 X = 605,899.3 LAT. = 32.151305°N LONG. = 103.991155°W FIRST TAKE POINT NAD 27 NME Y = 418,122.0 X = 605,742.9 LAT. = 32.149073°N LONG. = 103.991668°W CORNER COORDINATES TABLE NAD 27 NME A - Y = 419,106.1 N, X = 605,247.1 E B - Y = 419,113.3 N, X = 606,574.8 E C - Y = 418,433.5 N, X = 605,250.9 E D - Y = 416,458.8 N, X = 608,579.0 E E - Y = 413,801.0 N, X = 605,254.8 E F - Y = 413,806.7 N, X = 608,583.0 E G - Y = 411,146.4 N, X = 605,270.2 E H - Y = 411,152.4 N, X = 608,598.6 E I - Y = 408,491.1 N, X = 605,285.7 E J - Y = 408,496.4 N, X = 608,614.2 E CORNER COORDINATES TABLE NAD 83 NME A - Y = 419,164.6 N, X = 646,431.2 E B - Y = 419,171.8 N, X = 647,759.1 E C - Y = 416,512.0 N, X = 646,435.1 E D - Y = 416,517.3 N, X = 647,763.2 E E - Y = 413,859.4 N, X = 646,439.1 E F - Y = 413,865.1 N, X = 647,767.3 E G - Y = 411,204.8 N, X = 646,454.6 E H - Y = 411,210.7 N, X = 647,783.0 E I - Y = 408,549.4 N, X = 646,470.1 E J - Y = 408,554.7 N, X = 647,798.7 E LAST TAKE POINT NAD 27 NME Y = 408,634.7 X = 605,799.1 LAT. = 32.122992°N LONG. = 103.991584°W LAST TAKE POINT NAD 83 NME Y = 408,693.0 X = 646,983.5 LAT. = 32.123118°N LONG. = 103.992071°W BOTTOM HOLE LOCATION NAD 27 NME Y = 408,502.4 X = 605,808.4 LAT. = 32.122628°N LONG. = 103.991555°W BOTTOM HOLE LOCATION NAD 83 NME Y = 408,560.7 X = 646,992.8 LAT. = 32.122752°N LONG. = 103.992042°W
	GEODETIC COORDINATES NAD 83 NME K.O.P. Y = 418,878.1 X = 647,030.1 LAT. = 32.151113°N LONG. = 103.991816°W F.T.P. MD = 9,001' K.O.P. NAD 27 NME Y = 418,819.6 X = 605,845.9 LAT. = 32.150990°N LONG. = 103.991328°W L.T.P. MD = 18,495'

Intent ☐ As Drilled ☒

API # 30-015-42925			
Operator Name: XTO ENERGY INC.		Property Name: CORRAL CANYON FEDERAL COM	Well Number 6H

Kick Off Point (KOP)

UL C	Section 9	Township 25S	Range 29E	Lot	Feet 290	From N/S N	Feet 1926	From E/W W	County Eddy
Latitude 32.151113					Longitude 103.991816			NAD 83	

First Take Point (FTP)

UL C	Section 9	Township 25S	Range 29E	Lot	Feet 987	From N/S N	Feet 1822	From E/W W	County Eddy
Latitude 32.149197					Longitude 103.992156			NAD 83	

Last Take Point (LTP)

UL N	Section 16	Township 25S	Range 29E	Lot	Feet 142	From N/S S	Feet 1843	From E/W W	County Edey
Latitude 32.123116					Longitude 103.992071			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.

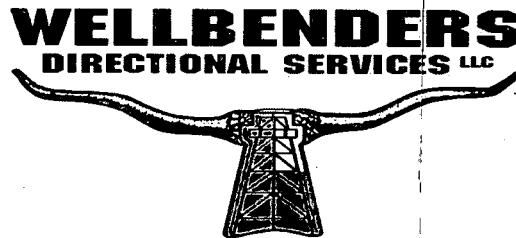
API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

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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 November 7, 2018 through November 14, 2018 conduct or supervise the taking of MWD Directional Survey from a depth of 0 feet to a depth of 7,730 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 6H 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 LLC

Client.....XTO Energy
 Location.....Eddy County NM (Nad-27 /East Zone)
 Site.....Corral Canyon Federal
 Well.....#6H

----- Depth reference -----
 Permanent datum.....2947.00
 Permanent datum.....2974.00

----- Surface Location -----
 Northing (N/S).....418934.600
 Northing (E/W).....605899.300

MD	Inc	Azimuth	TVD	Subsea	N/S	E/W	VS	DLS	X	Y	Latitude	Longitude
	0	0	0	0	-2974	0	0	0	0	605899.3	418934.6	32.151305 -103.991155
175	0.7		307.52	175	-2799	0.65	-0.85	-0.24	0.4	605898.45	418935.25	32.151307 -103.991157
231	0.88		308.73	230.99	-2743.01	1.13	-1.45	-0.42	0.32	605897.85	418935.73	32.151309 -103.991159
294	0.88		304.07	293.98	-2680.02	1.7	-2.23	-0.62	0.11	605897.07	418936.3	32.15131 -103.991162
352	0.79		315.41	351.98	-2622.02	2.24	-2.88	-0.84	0.32	605896.42	418936.84	32.151312 -103.991164
465	1.01		309.87	464.96	-2509.04	3.43	-4.19	-1.38	0.21	605895.11	418938.03	32.151315 -103.991168
533	0.79		323.06	532.95	-2441.05	4.19	-4.94	-1.77	0.44	605894.36	418938.79	32.151317 -103.991171
661	0.88		314.27	660.94	-2313.06	5.58	-6.17	-2.52	0.12	605893.13	418940.18	32.151321 -103.991175
719	0.88		319.89	718.93	-2255.07	6.23	-6.78	-2.86	0.15	605892.52	418940.83	32.151323 -103.991176
812	1.01		314.44	811.92	-2162.08	7.35	-7.82	-3.45	0.17	605891.48	418941.95	32.151326 -103.99118
906	1.1		314.44	905.91	-2068.09	8.56	-9.06	-4.04	0.1	605890.24	418943.16	32.151329 -103.991184
1001	1.32		308.03	1000.88	-1973.12	9.88	-10.57	-4.61	0.27	605888.73	418944.48	32.151333 -103.991189
1095	1.71		304.95	1094.85	-1879.15	11.35	-12.57	-5.12	0.42	605886.73	418945.95	32.151337 -103.991195
1190	1.58		306.09	1189.81	-1784.19	12.93	-14.79	-5.64	0.14	605884.51	418947.53	32.151341 -103.991202
1284	0.62		322.88	1283.79	-1690.21	14.1	-16.15	-6.14	1.07	605883.15	418948.7	32.151344 -103.991207
1380	0.7		313.39	1379.79	-1594.21	14.92	-16.89	-6.58	0.14	605882.41	418949.52	32.151347 -103.991209
1474	0.88		312.95	1473.78	-1500.22	15.8	-17.83	-6.99	0.19	605881.47	418950.4	32.151349 -103.991212
1570	1.4		260.12	1569.76	-1404.24	16.1	-19.53	-6.56	1.16	605879.77	418950.7	32.15135 -103.991218
1665	1.7		264.82	1664.73	-1309.27	15.78	-22.07	-5.21	0.34	605877.23	418950.38	32.151349 -103.991226
1759	2.3		273.02	1758.67	-1215.33	15.75	-25.35	-3.83	0.71	605873.95	418950.35	32.151349 -103.991236
1854	2		263.52	1853.6	-1120.4	15.66	-28.9	-2.28	0.49	605870.4	418950.26	32.151349 -103.991248
1949	1.6		227.92	1948.56	-1025.44	14.59	-31.53	-0.21	1.23	605867.77	418949.19	32.151346 -103.991256
2043	1.7		207.82	2042.52	-931.48	12.48	-33.15	2.38	0.62	605866.15	418947.08	32.15134 -103.991262
2138	0.8		334.72	2137.51	-836.49	11.83	-34.09	3.36	2.39	605865.21	418946.43	32.151338 -103.991265
2234	1.3		83.42	2233.5	-740.5	12.56	-33.3	2.37	1.8	605866	418947.16	32.15134 -103.991262
2329	1.2		68.22	2328.47	-645.53	13.05	-31.3	1.09	0.36	605868	418947.65	32.151342 -103.991256
2425	2		86.22	2424.44	-549.56	13.54	-28.7	-0.43	0.97	605870.6	418948.14	32.151343 -103.991247
2519	3.6		90.92	2518.32	-455.68	13.6	-24.11	-2.38	1.72	605875.19	418948.2	32.151343 -103.991232
2613	3.5		112.22	2612.15	-361.85	12.46	-18.5	-3.68	1.4	605880.8	418947.06	32.15134 -103.991214
2706	5.1		119.82	2704.88	-269.12	9.33	-12.29	-3.4	1.82	605887.01	418943.93	32.151331 -103.991194
2801	4.1		116.02	2799.57	-174.43	5.74	-5.57	-2.92	1.1	605893.73	418940.34	32.151321 -103.991173
2829	3.9		118.02	2827.51	-146.49	4.86	-3.83	-2.83	0.87	605895.47	418939.46	32.151319 -103.991167
2933	3.1		119.92	2931.31	-42.69	1.79	1.73	-2.35	0.78	605901.03	418936.39	32.15131 -103.991149
3028	3		120.52	3026.18	52.18	-0.75	6.09	-1.84	0.11	605905.39	418933.85	32.151303 -103.991135
3124	3		120.92	3122.05	148.05	-3.32	10.41	-1.3	0.02	605909.71	418931.28	32.151296 -103.991121
3219	2.6		137.22	3216.93	242.93	-6.18	14.01	-0.19	0.93	605913.31	418928.42	32.151288 -103.991109
3311	2.4		141.82	3308.85	334.85	-9.22	16.62	1.51	0.31	605915.92	418925.38	32.15128 -103.991101
3406	2.3		155.22	3403.77	429.77	-12.52	18.65	3.66	0.59	605917.95	418922.08	32.151271 -103.991095
3501	1.8		180.72	3498.71	524.71	-15.74	19.43	6.27	1.08	605918.73	418918.86	32.151262 -103.991092
3596	1.7		180.22	3593.66	619.66	-18.64	19.4	8.92	0.11	605918.7	418915.96	32.151254 -103.991092
3690	1.7		188.02	3687.62	713.62	-21.41	19.2	11.53	0.25	605918.5	418913.19	32.151246 -103.991093
3787	1.8		201.72	3784.58	810.58	-24.25	18.44	14.43	0.44	605917.74	418910.35	32.151239 -103.991095
3882	1.7		191.62	3879.53	905.53	-27.02	17.6	17.3	0.34	605916.9	418907.58	32.151231 -103.991098
3976	1.9		219.62	3973.49	999.49	-29.59	16.33	20.16	0.95	605915.63	418905.01	32.151224 -103.991102
4072	1.8		223.92	4069.44	1095.44	-31.9	14.27	23.12	0.18	605913.57	418902.7	32.151218 -103.991109
4167	1.8		229.42	4164.39	1190.39	-33.94	12.1	25.88	0.18	605911.4	418900.66	32.151212 -103.991116
4263	1.8		231.02	4260.34	1286.34	-35.87	9.78	28.59	0.05	605909.08	418898.73	32.151207 -103.991123
4356	1.7		234.82	4353.3	1379.3	-37.59	7.52	31.09	0.16	605906.82	418897.01	32.151202 -103.991131
4452	1.4		233.32	4449.27	1475.27	-39.11	5.41	33.35	0.32	605904.71	418895.49	32.151198 -103.991138
4548	1.2		210.92	4545.24	1571.24	-40.67	3.96	35.37	0.56	605903.26	418893.93	32.151194 -103.991142
4644	1.6		214.72	4641.21	1667.21	-42.63	2.68	37.69	0.43	605901.98	418891.97	32.151188 -103.991146
4739	1.7		214.82	4736.17	1762.17	-44.88	1.12	40.38	0.11	605900.42	418889.72	32.151182 -103.991151
4835	1.9		215.52	4832.13	1858.13	-47.35	-0.62	43.35	0.21	605898.68	418887.25	32.151175 -103.991157
4931	2		220.82	4928.07	1954.07	-49.91	-2.64	46.52	0.21	605896.66	418884.69	32.151168 -103.991164
5026	2.1		223.12	5023.01	2049.01	-52.43	-4.91	49.76	0.14	605894.39	418882.17	32.15116 -103.991171
5122	2.1		213.32	5118.95	2144.95	-55.19	-7.08	53.16	0.37	605892.22	418879.41	32.151154 -103.991178
5218	2.1		216.92	5214.88	2240.88	-58.06	-9.1	56.62	0.14	605890.2	418876.54	32.151146 -103.991185
5313	2.4		221.82	5309.81	2335.81	-60.94	-11.48	60.21	0.37	605887.82	418873.66	32.151138 -103.991192
5406	2.4		219.92	5402.73	2428.73	-63.88	-14.02	63.95	0.09	605885.28	418870.72	32.15113 -103.991201
5502	2.4		224.22	5498.64	2524.64	-66.86	-16.72	67.78	0.19	605882.58	418867.74	32.151122 -103.991209
5598	2.4		218.62	5594.56	2620.56	-69.87	-19.37	71.62	0.24	605879.93	418864.73	32.151113 -103.991218

WellBenders Directional Services LLC

Client.....XTO Energy
 Location.....Eddy County NM (Nad-27 /East Zone)
 Site.....Corral Canyon Federal
 Well.....#6H

 Depth reference
 Permanent datum.....2947.00
 Permanent datum.....2974.00

 Surface Location
 Northing (N/S).....418934.600
 Northing (E/W).....605899.300

MD	Inc	Azimuth	TVD	Subsea	N/S	E/W	VS	DLS	X	Y	Latitude	Longitude
	5692	2.2	216.12	5688.48	2714.48	-72.87	-21.66	75.3	0.24	605877.64	418861.73	32.151105 -103.991225
	5788	2.6	209.62	5784.4	2810.4	-76.25	-23.83	79.27	0.5	605875.47	418858.35	32.151096 -103.991232
	5884	2.5	225.12	5880.3	2906.3	-79.62	-26.39	83.4	0.72	605872.91	418854.98	32.151087 -103.991241
	5978	1.6	226.72	5974.24	3000.24	-81.97	-28.8	86.53	0.96	605870.5	418852.63	32.15108 -103.991249
	6074	1.9	215.62	6070.2	3096.2	-84.18	-30.7	89.33	0.47	605868.6	418850.42	32.151074 -103.991255
	6168	1.9	214.82	6164.15	3190.15	-86.73	-32.49	92.4	0.03	605866.81	418847.87	32.151067 -103.991261
	6263	2	212.62	6259.09	3285.09	-89.42	-34.29	95.59	0.13	605865.01	418845.18	32.15106 -103.991266
	6358	1.9	205.12	6354.04	3380.04	-92.24	-35.85	98.8	0.29	605863.45	418842.36	32.151052 -103.991271
	6454	1.7	203.32	6449.99	3475.99	-94.99	-37.09	101.82	0.22	605862.21	418839.61	32.151045 -103.991275
	6546	1.5	217.02	6541.95	3567.95	-97.2	-38.35	104.36	0.47	605860.95	418837.4	32.151039 -103.99128
	6642	1.4	210.42	6637.92	3663.92	-99.22	-39.7	106.75	0.2	605859.6	418835.38	32.151033 -103.991284
	6736	1.1	222.02	6731.9	3757.9	-100.88	-40.89	108.75	0.42	605858.41	418833.72	32.151028 -103.991288
	6831	1.1	268.52	6826.89	3852.89	-101.58	-42.41	110.02	0.91	605856.89	418833.02	32.151027 -103.991293
	6927	1.2	300.52	6922.87	3948.87	-101.09	-44.2	110.32	0.67	605855.1	418833.51	32.151028 -103.991298
	7022	2.1	284.72	7017.83	4043.83	-100.14	-46.74	110.51	1.05	605852.56	418834.46	32.151031 -103.991307
	7118	2.7	257.52	7113.75	4139.75	-100.18	-50.65	112.17	1.32	605848.65	418834.42	32.15103 -103.991319
	7214	1.3	248.62	7209.68	4235.68	-101.07	-53.87	114.31	1.49	605845.43	418833.53	32.151028 -103.99133
	7310	1.3	194.72	7305.66	4331.66	-102.52	-55.16	116.16	1.23	605844.14	418832.08	32.151024 -103.991334
	7400	1.3	170.62	7395.64	4421.64	-104.52	-55.25	118.02	0.6	605844.05	418830.08	32.151019 -103.991334
	7496	1.7	158.12	7491.61	4517.61	-106.91	-54.55	119.9	0.54	605844.75	418827.69	32.151012 -103.991332
	7592	1.9	151.02	7587.56	4613.56	-109.62	-53.24	121.83	0.31	605846.06	418824.98	32.151005 -103.991328
	7687	1.5	151.92	7682.52	4708.52	-112.1	-51.9	123.53	0.42	605847.4	418822.5	32.150998 -103.991323
	7730	1.1	151.02	7725.51	4751.51	-112.96	-51.43	124.12	0.93	605847.87	418821.64	32.150995 -103.991322

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
 Vertical depths are relative to RKB=27'. Northings and Eastings are relative to well.

The Dogleg severity is in degrees per 100 feet.
 Vertical section is from slot and calculated along an azimuth of 204.481- (Grid).

Coordinate system is NAD 1927 (NADCO CONUS) US State Plane 1927 (Exact solution) New Mexico East 3001
 Central Meridian is -10433-
 Grid convergence at surface is 0.182-.

Based upon minimum curvature type calculations at a measured depth of 7730.00 ft. the bottom hole displacement is 12.12 ft in the direction of 204.481- (Grid).

Quintana Energy Services

11390 FM 830

Willis, TX 77318

Phone: (936) 856-4332

Fax: (936) 856-8678

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JAN 14 2020

EMNRD-OCD ARTESIA**Survey Certification Sheet**

Company	Job Number	Date
XTO Energy, Inc.	WT-181337	11/27/2018

Lease	Well Name	County & State
SEC 9, T-25S, R29E	Corral Canyon Federal #6H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
30-015-42925	7730 feet to 18628 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Hector Graradito

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

Christopher Hughes
MWD Compliance Manager
Quintana Energy Services

Digitally signed by Christopher
Hughes
DN: cn=Christopher Hughes, o=QES,
ou, email=chrish@qeslp.com, c=US
Date: 2020.01.10 07:48:43 -06'00'



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #6H
Project:	Eddy County, NM	TVD Reference:	RKB @ 2974.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2974.0usft (Frontier #27)
Well:	Corral Canyon Federal #6H	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 9, T25S, R29E		
Site Position:		Northing:	418,934.60 usft
From:	Map	Easting:	605,899.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 9' 4.699 N
		Longitude:	103° 59' 28.157 W
		Grid Convergence:	0.18 °

Well	Corral Canyon Federal #6H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 4.699 N
		Longitude:	103° 59' 28.157 W
		Ground Level:	2,947.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/13/2018	6.99
		Dip Angle (°)	Field Strength (nT)
		59.91	47,709.33717156

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)
	0.0	0.0	0.0
		Direction (°)	180.51

Survey Program	Date 11/26/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
175.0	7,730.0	Wellbenders MWD (Wellbore #1)	MWD
7,829.0	18,628.0	QES MWD Surveys (Wellbore #1)	MWD
		Description	
		OWSG MWD - Standard	
		OWSG MWD - Standard	

Survey			
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)
		N/S (usft)	E/W (usft)
		Closure Distance (usft)	Closure Azimuth (°)
7,730.0	1.10	151.05	7,725.5
		-113.2	-51.5
		124.4	204.44
MWD Tie-in @ 7730.0' MD / 7725.5' TVD			
7,829.0	0.80	245.00	7,824.5
		-114.3	-51.6
		125.4	204.30
7,924.0	1.20	257.30	7,919.5
		-114.8	-53.2
		126.6	204.86
7,971.0	3.70	216.20	7,966.4
		-116.2	-54.6
		128.3	205.16
8,019.0	7.50	205.40	8,014.2
		-120.2	-56.8
		133.0	205.30
8,066.0	13.80	193.10	8,060.4
		-128.5	-59.4
		141.6	204.82
8,113.0	21.00	193.30	8,105.2
		-142.2	-62.6
		155.3	203.78
8,160.0	29.00	196.30	8,147.7
		-161.3	-67.8
		175.0	202.79
8,208.0	33.30	196.00	8,188.8
		-185.2	-74.7
		199.7	201.96
8,255.0	34.70	195.10	8,227.8
		-210.5	-81.7
		225.8	201.22



QES Survey Certification Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Corral Canyon Federal #6H
Project:	Eddy County, NM	TVD Reference:	RKB @ 2974.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2974.0usft (Frontier #27)
Well:	Corral Canyon Federal #6H	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 (°)	
8,303.0	36.80	195.80	8,266.7	-237.5	-89.2	253.7	200.58	
8,350.0	38.20	198.90	8,304.0	-264.8	-97.7	282.3	200.26	
8,399.0	40.50	197.00	8,341.9	-294.4	-107.3	313.3	200.03	
8,446.0	43.60	193.50	8,376.8	-324.7	-115.5	344.7	199.59	
8,494.0	47.30	191.00	8,410.5	-358.2	-122.8	378.6	198.92	
8,541.0	49.70	188.60	8,441.6	-392.8	-128.8	413.4	198.15	
8,590.0	53.90	188.20	8,471.9	-430.9	-134.4	451.4	197.32	
8,637.0	58.00	187.00	8,498.2	-469.5	-139.5	489.8	196.55	
8,685.0	62.40	185.40	8,522.1	-510.9	-144.0	530.8	195.74	
8,732.0	66.80	183.30	8,542.2	-553.2	-147.2	572.5	194.90	
8,780.0	70.30	182.20	8,559.8	-597.9	-149.3	616.2	194.03	
8,827.0	72.80	181.90	8,574.7	-642.4	-150.9	659.9	193.22	
8,876.0	76.00	182.20	8,587.8	-689.6	-152.6	706.3	192.48	
8,923.0	79.10	182.60	8,598.0	-735.4	-154.5	751.5	191.87	
8,972.0	82.70	181.20	8,605.7	-783.8	-156.1	799.2	191.27	
9,019.0	84.90	179.60	8,610.8	-830.5	-156.5	845.1	190.67	
9,068.0	89.10	178.20	8,613.4	-879.4	-155.5	893.0	190.03	
9,163.0	90.20	177.70	8,613.9	-974.3	-152.1	986.1	188.87	
9,258.0	88.50	179.40	8,615.0	-1,069.3	-149.7	1,079.7	187.97	
9,353.0	88.90	179.10	8,617.2	-1,164.2	-148.5	1,173.7	187.27	
9,449.0	89.80	178.50	8,618.3	-1,260.2	-146.5	1,268.7	186.63	
9,545.0	90.70	178.40	8,617.8	-1,356.2	-143.9	1,363.8	186.06	
9,640.0	89.30	178.50	8,617.8	-1,451.1	-141.3	1,458.0	185.56	
9,735.0	90.70	179.60	8,617.8	-1,546.1	-139.7	1,552.4	185.16	
9,831.0	92.00	179.40	8,615.6	-1,642.1	-138.9	1,648.0	184.83	
9,927.0	90.60	179.60	8,613.4	-1,738.1	-138.1	1,743.5	184.54	
10,022.0	89.40	180.80	8,613.4	-1,833.1	-138.4	1,838.3	184.32	
10,117.0	89.30	180.30	8,614.5	-1,928.1	-139.3	1,933.1	184.13	
10,213.0	89.10	179.40	8,615.8	-2,024.0	-139.1	2,028.8	183.93	
10,308.0	90.00	179.30	8,616.6	-2,119.0	-138.0	2,123.5	183.73	
10,404.0	88.30	178.50	8,618.0	-2,215.0	-136.1	2,219.2	183.52	
10,500.0	89.40	178.50	8,619.9	-2,310.9	-133.6	2,314.8	183.31	
10,596.0	90.20	178.40	8,620.3	-2,406.9	-131.0	2,410.5	183.12	
10,691.0	90.80	179.30	8,619.4	-2,501.9	-129.1	2,505.2	182.95	
10,786.0	89.40	179.30	8,619.3	-2,596.9	-128.0	2,600.0	182.82	
10,881.0	88.50	179.30	8,621.0	-2,691.9	-126.8	2,694.8	182.70	
10,977.0	90.70	180.00	8,621.7	-2,787.8	-126.2	2,790.7	182.59	
11,072.0	89.40	177.80	8,621.6	-2,882.8	-124.4	2,885.5	182.47	
11,167.0	91.40	177.70	8,620.9	-2,977.7	-120.7	2,980.2	182.32	
11,263.0	90.30	177.70	8,619.5	-3,073.6	-116.8	3,075.9	182.18	
11,357.0	90.30	177.10	8,619.0	-3,167.5	-112.5	3,169.5	182.03	
11,452.0	91.30	177.00	8,617.7	-3,262.4	-107.7	3,264.2	181.89	
11,546.0	91.70	177.80	8,615.2	-3,356.3	-103.4	3,357.9	181.76	
11,641.0	88.50	178.40	8,615.1	-3,451.2	-100.2	3,452.7	181.66	



QES Survey Certification Report



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Project:	Eddy County, NM	TVD Reference:	RKB @ 2974.0usft (Frontier #27)
Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2974.0usft (Frontier #27)
Well:	Corral Canyon Federal #6H	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 (°)	
11,736.0	88.60	178.20	8,617.5	-3,546.1	-97.4	3,547.5	181.57	
11,831.0	90.00	178.70	8,618.6	-3,641.1	-94.9	3,642.3	181.49	
11,927.0	87.60	178.40	8,620.6	-3,737.0	-92.4	3,738.2	181.42	
12,022.0	88.00	179.30	8,624.3	-3,831.9	-90.5	3,833.0	181.35	
12,117.0	88.70	179.80	8,627.0	-3,926.9	-89.8	3,927.9	181.31	
12,213.0	89.90	180.30	8,628.2	-4,022.9	-89.9	4,023.9	181.28	
12,309.0	91.30	180.50	8,627.2	-4,118.9	-90.5	4,119.9	181.26	
12,403.0	90.10	182.40	8,626.0	-4,212.8	-92.9	4,213.9	181.26	
12,499.0	90.40	183.60	8,625.6	-4,308.7	-97.9	4,309.8	181.30	
12,596.0	89.30	182.20	8,625.9	-4,405.6	-102.8	4,406.8	181.34	
12,690.0	90.00	182.90	8,626.4	-4,499.5	-107.0	4,500.8	181.36	
12,784.0	89.00	182.40	8,627.3	-4,593.4	-111.4	4,594.7	181.39	
12,880.0	87.60	180.10	8,630.1	-4,689.3	-113.5	4,690.7	181.39	
12,975.0	88.20	181.50	8,633.6	-4,784.2	-114.8	4,785.6	181.37	
13,070.0	89.40	181.20	8,635.6	-4,879.2	-117.0	4,880.6	181.37	
13,165.0	90.00	181.50	8,636.1	-4,974.2	-119.3	4,975.6	181.37	
13,259.0	89.10	180.80	8,636.8	-5,068.1	-121.1	5,069.6	181.37	
13,355.0	89.60	181.00	8,637.9	-5,164.1	-122.7	5,165.6	181.36	
13,451.0	89.00	180.50	8,639.1	-5,260.1	-123.9	5,261.6	181.35	
13,545.0	90.10	180.50	8,639.8	-5,354.1	-124.7	5,355.5	181.33	
13,640.0	90.40	180.30	8,639.4	-5,449.1	-125.4	5,450.5	181.32	
13,734.0	90.90	179.40	8,638.3	-5,543.1	-125.1	5,544.5	181.29	
13,829.0	91.70	179.40	8,636.2	-5,638.0	-124.2	5,639.4	181.26	
13,922.0	89.70	179.40	8,635.0	-5,731.0	-123.2	5,732.4	181.23	
14,018.0	89.70	179.40	8,635.5	-5,827.0	-122.2	5,828.3	181.20	
14,113.0	89.60	178.50	8,636.1	-5,922.0	-120.4	5,923.2	181.17	
14,208.0	90.40	179.60	8,636.1	-6,017.0	-118.9	6,018.2	181.13	
14,302.0	91.00	180.50	8,635.0	-6,111.0	-118.9	6,112.1	181.12	
14,366.0	91.30	179.80	8,633.7	-6,175.0	-119.1	6,176.1	181.11	
14,425.0	92.20	179.80	8,631.9	-6,233.9	-118.9	6,235.1	181.09	
14,520.0	90.70	179.60	8,629.5	-6,328.9	-118.4	6,330.0	181.07	
14,615.0	88.80	179.40	8,629.9	-6,423.9	-117.6	6,425.0	181.05	
14,711.0	89.30	179.30	8,631.5	-6,519.9	-116.5	6,520.9	181.02	
14,806.0	89.60	178.40	8,632.4	-6,614.8	-114.6	6,615.8	180.99	
14,901.0	91.50	178.00	8,631.5	-6,709.8	-111.6	6,710.7	180.95	
14,997.0	90.30	178.70	8,630.0	-6,805.7	-108.8	6,806.6	180.92	
15,092.0	88.90	179.60	8,630.7	-6,900.7	-107.4	6,901.6	180.89	
15,188.0	87.90	178.50	8,633.3	-6,996.7	-105.8	6,997.5	180.87	
15,283.0	87.90	178.40	8,636.8	-7,091.6	-103.3	7,092.3	180.83	
15,377.0	88.00	177.70	8,640.2	-7,185.5	-100.1	7,186.2	180.80	
15,473.0	87.50	176.60	8,643.9	-7,281.3	-95.3	7,281.9	180.75	
15,569.0	88.30	176.40	8,647.5	-7,377.0	-89.4	7,377.6	180.69	
15,663.0	90.00	177.10	8,648.9	-7,470.9	-84.1	7,471.3	180.65	
15,758.0	89.90	178.40	8,648.9	-7,565.8	-80.4	7,566.2	180.61	



QES Survey Certification Report



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Site:	Sec 9, T25S, R29E	MD Reference:	RKB @ 2974.0usft (Frontier #27)
Well:	Corral Canyon Federal #6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,852.0	90.90	177.70	8,648.3	-7,659.7	-77.2	7,660.1	180.58
15,948.0	90.60	176.80	8,647.0	-7,755.6	-72.6	7,755.9	180.54
16,043.0	90.70	177.80	8,645.9	-7,850.5	-68.1	7,850.8	180.50
16,138.0	91.40	179.60	8,644.2	-7,945.4	-66.0	7,945.7	180.48
16,233.0	91.50	178.70	8,641.8	-8,040.4	-64.5	8,040.7	180.46
16,328.0	89.30	180.70	8,641.1	-8,135.4	-64.0	8,135.6	180.45
16,424.0	88.90	180.10	8,642.6	-8,231.4	-64.7	8,231.6	180.45
16,520.0	88.90	182.10	8,644.5	-8,327.3	-66.6	8,327.6	180.46
16,615.0	89.60	181.40	8,645.7	-8,422.3	-69.5	8,422.6	180.47
16,708.0	90.30	181.90	8,645.8	-8,515.2	-72.1	8,515.5	180.49
16,803.0	91.80	182.10	8,644.1	-8,610.2	-75.5	8,610.5	180.50
16,899.0	90.70	181.50	8,642.0	-8,706.1	-78.5	8,706.4	180.52
16,994.0	91.10	184.20	8,640.5	-8,800.9	-83.2	8,801.3	180.54
17,089.0	90.50	181.50	8,639.2	-8,895.8	-87.9	8,896.2	180.57
17,182.0	90.20	183.80	8,638.6	-8,988.7	-92.2	8,989.2	180.59
17,276.0	90.00	182.60	8,638.4	-9,082.6	-97.5	9,083.1	180.61
17,372.0	89.30	182.20	8,639.0	-9,178.5	-101.5	9,179.0	180.63
17,468.0	89.60	182.60	8,639.9	-9,274.4	-105.5	9,275.0	180.65
17,564.0	89.90	183.60	8,640.4	-9,370.2	-110.7	9,370.9	180.68
17,659.0	89.50	181.50	8,640.9	-9,465.1	-114.9	9,465.8	180.70
17,754.0	88.80	180.70	8,642.3	-9,560.1	-116.7	9,560.8	180.70
17,849.0	86.20	179.60	8,646.4	-9,655.0	-117.0	9,655.7	180.69
17,944.0	87.60	180.50	8,651.5	-9,749.9	-117.1	9,750.6	180.69
18,039.0	88.40	178.40	8,654.9	-9,844.8	-116.2	9,845.5	180.68
18,134.0	91.60	178.90	8,654.9	-9,939.8	-113.9	9,940.4	180.66
18,230.0	91.80	178.40	8,652.0	-10,035.7	-111.7	10,036.3	180.64
18,326.0	93.90	178.00	8,647.2	-10,131.5	-108.7	10,132.1	180.61
18,420.0	94.00	177.00	8,640.8	-10,225.2	-104.6	10,225.7	180.59
18,515.0	94.20	176.40	8,634.0	-10,319.8	-99.1	10,320.3	180.55
18,580.0	93.90	175.60	8,629.4	-10,384.5	-94.6	10,384.9	180.52
18,628.0	93.90	175.60	8,626.1	-10,432.2	-90.9	10,432.6	180.50
TD @ 18628.0' MD / 8626.1' TVD							

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,730.0	7,725.5	-113.2	-51.5	MWD Tie-in @ 7730.0' MD / 7725.5' TVD
18,628.0	8,626.1	-10,432.2	-90.9	TD @ 18628.0' MD / 8626.1' TVD

Checked By: _____	Approved By: _____	Date: _____
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