

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- 43240	² Pool Code 97905	³ Pool Name Wildcat G-07 S223021G; Bone Spring
⁴ Property Code 325542	⁵ Property Name JAMES RANCH UNIT DI 1A	⁶ Well Number 204H
⁷ OGRID No. 260737	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,157'

¹⁰ Surface Location

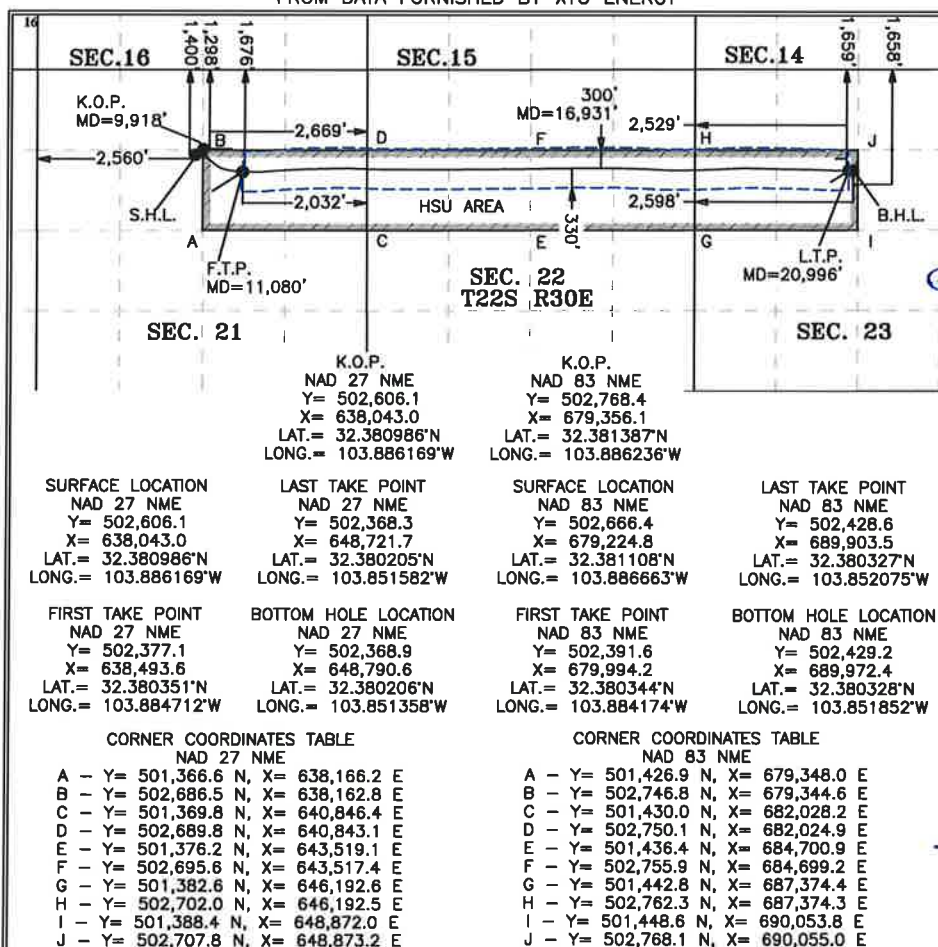
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	21	22 S	30 E		1,400	NORTH	2,560	WEST	EDDY

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
F	23	22 S	30 E		1,658	NORTH	2,598	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 heretofore entered by the division.

Signature: *Tracie J Cherry* Date: 11/14/19

Tracie J Cherry, Regulatory Coordinator

Printed Name

tracie_cherry@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.

06-14-2019

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



RR/JC

2017050654

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



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 October 27, 2018 through November 8 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 216 feet to a depth of 8,167 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: James Ranch Unit D1 1A #204H 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



Weatherford

Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

XTO Energy
6401 Holliday Hill Road
Midland, TX 79707

Date: January 22, 2019

Attention: Robert Carlton

Re: XTO Energy
Well: James Ranch Unit DI 1A 204H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Joesf Hertzog MWD Ops. Coordinator	204H	8,245 MD 21,065 MD	1/2/2019 1/18/2019	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

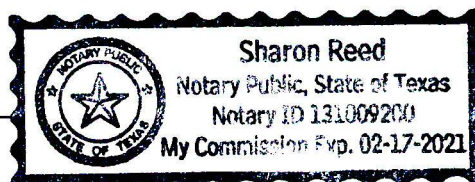
Jeff Johnson

MWD Ops. Coordinator

On this, the 22nd day of January, 2019, before me a notary public, the undersigned officer, personally appeared Jeff Johnson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



**5D Survey Report****XTO Energy**

Field Name: *XTO NAD 27 NME*
Site Name: *James Ranch Unit DI 1A #203H,204H,206H Pad*
Well Name: *James Ranch Unit DI 1A #204H*
File number: *13528237*
Survey: *Definitive survey*

18 January 2019





James Ranch Unit DI 1A #204H

Field Name: XTO NAD 27 NME	Map Units: US ft		Company Name: XTO Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD27 / New Mexico East			
	Comment:			
Site: James Ranch Unit DI 1A #203H,204H,20 6H Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.24	
	Position:	Northing: 502646.10 US ft	Latitude: 32° 22' 51.95"	
		Easting: 638042.90 US ft	Longitude: -103° 53' 10.21"	
	Elevation above MSL:3155.00 US ft			
	Comment: Eddy Co., NM			
Slot: James Ranch Unit DI 1A #204H	Position (Relative to Site Centre)			
	+N/-S: -40.00 US ft	Northing: 502606.10 US ft	Latitude: 32° 22' 51.55"	
	+E/-W: 0.10 US ft	Easting: 638043.00 US ft	Longitude: -103° 53' 10.21"	
	Elevation above MSL: 3157.00 US ft			
	Comment:			
Well: James Ranch Unit DI 1A #204H	Type:Main well		UWI:	
	File Number: 13528237	Comment:		
	Closure Distance:10820.3US ft		Closure Azimuth:91.26°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00 US ft		+E/-W: -0.00 US ft	Az: 89.89°

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 25.00 US ft **Elevation above MSL:** 3182.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name:Definitive Survey									
Date: 05/Oct/2018		Survey Tool: See Survey Tool Ranges below.			Comment:		Company:		
Magnetic Model:									
Model Name: bggm2018		Date: 20/Nov/2018		Field Strength: 47905.6nT		Declination: 7.02°		Dip: 60.09°	
Tie Point:									
MD: 0.00 US ft		Inclination: 0.00°		Azimuth: 0.00°		TVD: 0.00 US ft		North Offset: -0.00 US ft	
								East Offset: -0.00 US ft	
Survey Tool Ranges:									
Name		Start MD(USFt)		End MD(USFt)		Source Survey			
MWD		0.00		8167.00		WellBenders MWD			

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	8167.00	9759.00	WFT MWD SVY_1
MWD	9759.00	13684.00	WFT MWD SVY_2
MWD	13684.00	18444.00	WFT MWD SVY_3
MWD	18444.00	21135.00	WFT MWD SVY_4

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
8184.00	0.46	304.66	8180.30	4998.30	108.62	136.09	502714.72	638179.09	8 5/8 in

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-3182.00	0.00	-0.00	-0.00	502606.10	638043.00	0.00	
216.00	1.30	133.00	215.98	-2966.02	1.79	-1.67	1.79	502604.43	638044.79	0.60	
275.00	1.40	129.00	274.97	-2907.03	2.84	-2.58	2.84	502603.52	638045.84	0.23	
370.00	1.50	70.00	369.94	-2812.06	4.91	-2.89	4.91	502603.21	638047.91	1.51	
466.00	1.70	45.00	465.90	-2716.10	7.10	-1.45	7.10	502604.65	638050.10	0.75	
707.00	0.62	48.00	706.85	-2475.15	10.60	1.95	10.60	502608.05	638053.60	0.45	
801.00	0.31	19.90	800.85	-2381.15	11.07	2.53	11.06	502608.63	638054.06	0.40	
898.00	0.40	230.39	897.85	-2284.15	10.89	2.56	10.89	502608.66	638053.89	0.71	
1031.00	1.41	233.73	1030.83	-2151.17	9.22	1.30	9.21	502607.40	638052.21	0.76	
1125.00	2.20	231.40	1124.78	-2057.22	6.87	-0.51	6.87	502605.59	638049.87	0.84	
1221.00	1.58	219.75	1220.73	-1961.27	4.58	-2.68	4.58	502603.42	638047.58	0.76	
1314.00	1.19	199.27	1313.70	-1868.30	3.44	-4.58	3.45	502601.52	638046.45	0.67	
1410.00	1.10	109.27	1409.69	-1772.31	3.97	-5.82	3.99	502600.28	638046.99	1.69	
1503.00	2.02	76.05	1502.66	-1679.34	6.41	-5.72	6.42	502600.38	638049.42	1.35	
1596.00	2.42	77.90	1595.59	-1586.41	9.92	-4.92	9.93	502601.18	638052.93	0.44	
1694.00	2.51	70.69	1693.49	-1488.51	13.97	-3.77	13.98	502602.33	638056.98	0.33	
1788.00	2.68	70.95	1787.40	-1394.60	17.99	-2.37	18.00	502603.73	638061.00	0.18	
1882.00	2.99	73.06	1881.28	-1300.72	22.42	-0.94	22.42	502605.16	638065.42	0.35	
1977.00	2.20	73.06	1976.18	-1205.82	26.54	0.31	26.54	502606.41	638069.54	0.83	
2072.00	1.89	58.70	2071.12	-1110.88	29.62	1.66	29.62	502607.76	638072.62	0.63	
2166.00	2.02	14.97	2165.08	-1016.92	31.38	4.06	31.37	502610.16	638074.37	1.55	
2261.00	2.02	48.37	2260.02	-921.98	33.07	6.79	33.05	502612.89	638076.05	1.22	
2355.00	2.20	50.39	2353.96	-828.04	35.70	9.04	35.68	502615.14	638078.68	0.21	
2450.00	2.81	48.81	2448.86	-733.14	38.86	11.74	38.84	502617.84	638081.84	0.65	
2546.00	2.11	44.50	2544.78	-637.22	41.88	14.55	41.85	502620.65	638084.85	0.75	
2641.00	1.80	47.90	2639.72	-542.28	44.21	16.80	44.18	502622.90	638087.18	0.35	
2736.00	2.42	68.20	2734.66	-447.34	47.19	18.54	47.15	502624.64	638090.15	1.01	
2830.00	2.29	82.03	2828.58	-353.42	50.89	19.54	50.85	502625.64	638093.85	0.62	
2924.00	1.89	91.78	2922.52	-259.48	54.30	19.75	54.26	502625.85	638097.26	0.57	
3019.00	2.51	81.50	3017.45	-164.55	57.92	20.01	57.89	502626.11	638100.89	0.77	
3114.00	3.12	82.29	3112.33	-69.67	62.55	20.66	62.51	502626.76	638105.51	0.64	
3208.00	2.81	84.49	3206.20	24.20	67.38	21.23	67.33	502627.33	638110.33	0.35	
3302.00	3.12	89.59	3300.08	118.08	72.23	21.47	72.19	502627.57	638115.19	0.43	
3389.00	2.81	90.38	3386.96	204.96	76.73	21.47	76.69	502627.57	638119.69	0.36	
3484.00	2.42	72.10	3481.86	299.86	80.97	22.07	80.92	502628.17	638123.92	0.96	
3578.00	2.20	65.07	3575.79	393.79	84.49	23.44	84.45	502629.54	638127.45	0.38	
3672.00	2.51	66.21	3669.71	487.71	88.02	25.03	87.97	502631.13	638130.97	0.33	
3766.00	2.11	45.64	3763.63	581.63	91.14	27.07	91.09	502633.17	638134.09	0.97	
3862.00	1.89	41.07	3859.58	677.58	93.45	29.50	93.39	502635.60	638136.39	0.28	
3954.00	2.02	41.07	3951.52	769.52	95.51	31.87	95.45	502637.97	638138.45	0.14	
4049.00	2.02	36.06	4046.46	864.46	97.61	34.48	97.54	502640.58	638140.54	0.19	
4143.00	2.02	37.03	4140.40	958.40	99.58	37.15	99.51	502643.25	638142.51	0.04	
4239.00	2.02	37.03	4236.34	1054.34	101.63	39.85	101.55	502645.95	638144.55	0.00	
4334.00	1.71	34.04	4331.29	1149.29	103.43	42.36	103.35	502648.46	638146.35	0.34	
4427.00	1.49	29.73	4424.26	1242.26	104.81	44.56	104.73	502650.66	638147.73	0.27	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
4522.00	1.49	30.17	4519.23	1337.23	106.05	46.70	105.96	502652.80	638148.96	0.01	
4617.00	1.49	28.50	4614.19	1432.19	107.26	48.85	107.17	502654.95	638150.17	0.05	
4712.00	1.71	31.58	4709.16	1527.16	108.60	51.15	108.50	502657.25	638151.50	0.25	
4807.00	1.71	24.46	4804.11	1622.11	109.93	53.64	109.83	502659.74	638152.83	0.22	
4902.00	1.80	23.84	4899.07	1717.07	111.13	56.30	111.02	502662.40	638154.02	0.10	
4997.00	1.80	11.36	4994.02	1812.02	112.03	59.13	111.92	502665.23	638154.92	0.41	
5091.00	1.58	4.68	5087.98	1905.98	112.43	61.86	112.32	502667.96	638155.32	0.31	
5186.00	1.71	5.65	5182.94	2000.94	112.69	64.58	112.56	502670.68	638155.56	0.14	
5280.00	1.58	5.04	5276.90	2094.90	112.94	67.27	112.81	502673.37	638155.81	0.14	
5374.00	1.41	2.05	5370.87	2188.87	113.10	69.71	112.97	502675.81	638155.97	0.20	
5469.00	1.58	13.56	5465.84	2283.84	113.46	72.16	113.32	502678.26	638156.32	0.36	
5563.00	1.49	4.25	5559.81	2377.81	113.86	74.63	113.71	502680.73	638156.71	0.28	
5658.00	1.71	21.21	5654.77	2472.77	114.46	77.19	114.32	502683.29	638157.32	0.55	
5753.00	1.71	20.51	5749.73	2567.73	115.48	79.84	115.33	502685.94	638158.33	0.02	
5847.00	1.41	21.30	5843.69	2661.69	116.40	82.23	116.24	502688.33	638159.24	0.32	
5941.00	1.32	20.24	5937.67	2755.67	117.19	84.32	117.03	502690.42	638160.03	0.10	
6131.00	1.49	33.78	6127.61	2945.61	119.33	88.43	119.16	502694.53	638162.16	0.20	
6225.00	1.41	36.41	6221.58	3039.58	120.70	90.37	120.53	502696.47	638163.53	0.11	
6319.00	1.49	46.70	6315.55	3133.55	122.28	92.14	122.10	502698.24	638165.10	0.29	
6414.00	1.49	45.20	6410.52	3228.52	124.06	93.86	123.88	502699.96	638166.88	0.04	
6508.00	1.32	43.88	6504.49	3322.49	125.68	95.50	125.50	502701.60	638168.50	0.18	
6603.00	1.49	39.14	6599.46	3417.46	127.22	97.25	127.04	502703.35	638170.04	0.22	
6698.00	1.32	39.58	6694.43	3512.43	128.70	99.05	128.51	502705.15	638171.51	0.18	
6792.00	1.10	47.66	6788.41	3606.41	130.06	100.49	129.87	502706.59	638172.87	0.30	
6887.00	1.01	53.55	6883.40	3701.40	131.41	101.60	131.22	502707.70	638174.22	0.15	
6981.00	1.19	53.38	6977.38	3795.38	132.86	102.68	132.67	502708.78	638175.67	0.19	
7075.00	1.10	57.16	7071.36	3889.36	134.41	103.75	134.21	502709.85	638177.21	0.12	
7168.00	0.88	57.77	7164.35	3982.35	135.76	104.61	135.56	502710.71	638178.56	0.24	
7263.00	0.70	52.41	7259.34	4077.34	136.84	105.36	136.64	502711.46	638179.64	0.20	
7357.00	0.79	56.63	7353.33	4171.33	137.84	106.06	137.64	502712.16	638180.64	0.11	
7451.00	0.62	36.59	7447.32	4265.32	138.68	106.83	138.48	502712.93	638181.48	0.32	
7545.00	0.40	34.74	7541.32	4359.32	139.18	107.51	138.97	502713.61	638181.97	0.23	
7640.00	0.22	48.98	7636.32	4454.32	139.50	107.90	139.30	502714.00	638182.30	0.20	
7735.00	0.22	334.36	7731.32	4549.32	139.56	108.18	139.36	502714.28	638182.36	0.28	
7830.00	0.31	288.04	7826.31	4644.31	139.24	108.43	139.03	502714.53	638182.03	0.24	
7925.00	0.48	273.45	7921.31	4739.31	138.60	108.53	138.39	502714.63	638181.39	0.21	
8019.00	0.62	267.39	8015.31	4833.31	137.70	108.53	137.49	502714.63	638180.49	0.16	
8112.00	0.48	266.16	8108.30	4926.30	136.81	108.48	136.60	502714.58	638179.60	0.15	
8167.00	0.40	298.15	8163.30	4981.30	136.41	108.56	136.20	502714.66	638179.20	0.46	Tie On WellBenders
8184.00	0.46	304.66	8180.30	4998.30	136.30	108.62	136.09	502714.72	638179.09	0.47	8 5/8 in
8245.00	0.72	317.73	8241.30	5059.30	135.84	109.05	135.63	502715.15	638178.63	0.47	First WFT SVY
8339.00	1.65	310.05	8335.28	5153.28	134.41	110.36	134.20	502716.46	638177.20	1.00	
8434.00	1.50	328.09	8430.24	5248.24	132.71	112.29	132.49	502718.39	638175.49	0.54	
8529.00	1.35	321.65	8525.21	5343.21	131.36	114.22	131.14	502720.32	638174.14	0.23	
8624.00	1.84	317.19	8620.18	5438.18	129.63	116.22	129.41	502722.32	638172.41	0.53	
8718.00	1.22	297.16	8714.14	5532.14	127.72	117.79	127.49	502723.89	638170.49	0.86	
8813.00	1.35	321.53	8809.12	5627.12	126.13	119.12	125.90	502725.22	638168.90	0.59	
8907.00	0.99	314.68	8903.10	5721.10	124.86	120.56	124.63	502726.66	638167.63	0.41	
9002.00	0.47	39.13	8998.09	5816.09	124.53	121.44	124.29	502727.54	638167.29	1.11	
9097.00	1.30	136.57	9093.08	5911.08	125.51	120.96	125.28	502727.06	638168.28	1.51	
9192.00	1.86	148.77	9188.05	6006.05	127.05	118.86	126.82	502724.96	638169.82	0.68	
9286.00	1.31	172.42	9282.01	6100.01	127.98	116.49	127.75	502722.59	638170.75	0.90	
9381.00	1.60	158.15	9376.98	6194.98	128.61	114.18	128.39	502720.28	638171.39	0.49	
9475.00	2.50	143.60	9470.92	6288.92	130.31	111.31	130.10	502717.41	638173.10	1.10	
9570.00	1.07	166.77	9565.87	6383.87	131.74	108.78	131.53	502714.88	638174.53	1.66	
9665.00	1.54	160.92	9660.85	6478.85	132.35	106.71	132.15	502712.81	638175.15	0.51	
9759.00	0.79	201.49	9754.83	6572.83	132.52	104.92	132.32	502711.02	638175.32	1.14	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
9854.00	0.84	190.59	9849.82	6667.82	132.15	103.62	131.96	502709.72	638174.96	0.17	
9900.00	1.28	221.84	9895.81	6713.81	131.75	102.91	131.55	502709.01	638174.55	1.55	
9947.00	6.40	176.53	9942.70	6760.70	131.55	99.90	131.36	502706.00	638174.36	11.86	
9995.00	11.65	173.68	9990.09	6808.09	132.23	92.41	132.05	502698.51	638175.05	10.97	
10042.00	18.87	170.96	10035.40	6853.40	133.93	80.17	133.77	502686.27	638176.77	15.43	
10089.00	24.03	168.38	10079.13	6897.13	137.02	63.28	136.90	502669.38	638179.90	11.16	
10136.00	28.20	163.32	10121.33	6939.33	142.10	43.25	142.02	502649.35	638185.02	10.05	
10184.00	32.26	158.31	10162.80	6980.80	150.05	20.47	150.01	502626.57	638193.01	9.95	
10231.00	36.18	152.31	10201.67	7019.67	161.09	-3.48	161.10	502602.62	638204.10	11.00	
10278.00	38.59	143.98	10239.03	7057.03	176.12	-27.64	176.18	502578.46	638219.18	11.91	
10325.00	40.04	136.39	10275.42	7093.42	195.14	-50.46	195.24	502555.64	638238.24	10.68	
10372.00	40.32	131.43	10311.34	7129.34	216.93	-71.47	217.07	502534.63	638260.07	6.83	
10419.00	41.55	128.44	10346.84	7164.84	240.51	-91.22	240.68	502514.88	638283.68	4.92	
10467.00	43.49	128.13	10382.22	7200.22	265.93	-111.32	266.15	502494.78	638309.15	4.07	
10514.00	46.86	128.12	10415.35	7233.35	292.11	-131.90	292.37	502474.20	638335.37	7.17	
10562.00	50.59	127.94	10447.01	7265.01	320.48	-154.12	320.78	502451.98	638363.78	7.78	
10609.00	54.67	126.54	10475.53	7293.53	350.18	-176.71	350.52	502429.39	638393.52	9.00	
10657.00	57.89	121.33	10502.18	7320.18	383.25	-198.95	383.64	502407.15	638426.64	11.24	
10704.00	61.38	114.11	10525.96	7343.96	419.10	-217.75	419.51	502388.35	638462.51	15.19	
10752.00	63.02	106.29	10548.38	7366.38	458.88	-232.38	459.32	502373.72	638502.32	14.81	
10799.00	65.33	101.36	10568.86	7386.86	499.92	-242.46	500.39	502363.64	638543.39	10.64	
10846.00	68.60	97.19	10587.25	7405.25	542.58	-249.41	543.06	502356.69	638586.06	10.73	
10893.00	72.31	95.61	10602.98	7420.98	586.58	-254.34	587.07	502351.76	638630.07	8.51	
10941.00	77.31	96.45	10615.55	7433.55	632.62	-259.21	633.12	502346.89	638676.12	10.55	
10988.00	79.80	98.01	10624.88	7442.88	678.30	-265.01	678.81	502341.09	638721.81	6.22	
11035.00	83.05	96.91	10631.88	7449.88	724.37	-271.04	724.89	502335.06	638767.89	7.29	
11082.00	87.20	93.18	10635.88	7453.88	770.99	-275.15	771.52	502330.95	638814.52	11.85	
11129.00	88.88	90.90	10637.48	7455.48	817.92	-276.82	818.46	502329.28	638861.46	6.02	
11224.00	90.35	90.03	10638.12	7456.12	912.91	-277.60	913.45	502328.50	638956.45	1.80	
11318.00	89.44	88.62	10638.30	7456.30	1006.90	-276.49	1007.44	502329.61	639050.44	1.79	
11413.00	88.67	86.92	10639.86	7457.86	1101.82	-272.79	1102.35	502333.31	639145.35	1.96	
11508.00	88.39	85.52	10642.30	7460.30	1196.59	-266.53	1197.11	502339.57	639240.11	1.50	
11602.00	89.16	85.07	10644.31	7462.31	1290.27	-258.82	1290.77	502347.28	639333.77	0.95	
11697.00	90.49	84.44	10644.60	7462.60	1384.89	-250.14	1385.37	502355.96	639428.37	1.55	
11792.00	91.68	85.82	10642.80	7460.80	1479.54	-242.08	1480.00	502364.02	639523.00	1.92	
11886.00	92.73	87.35	10639.18	7457.18	1573.31	-236.48	1573.76	502369.62	639616.76	1.97	
11981.00	91.61	88.67	10635.59	7453.59	1668.18	-233.18	1668.63	502372.92	639711.63	1.82	
12076.00	92.03	88.60	10632.57	7450.57	1763.11	-230.92	1763.56	502375.18	639806.56	0.45	
12170.00	89.79	88.84	10631.08	7449.08	1857.08	-228.82	1857.52	502377.28	639900.52	2.40	
12265.00	89.93	88.64	10631.31	7449.31	1952.06	-226.73	1952.49	502379.37	639995.49	0.26	
12360.00	88.81	89.04	10632.35	7450.35	2047.03	-224.81	2047.47	502381.29	640090.47	1.25	
12455.00	88.60	88.04	10634.50	7452.50	2141.98	-222.39	2142.41	502383.71	640185.41	1.08	
12550.00	88.88	87.11	10636.59	7454.59	2236.88	-218.37	2237.30	502387.73	640280.30	1.02	
12644.00	88.53	88.31	10638.71	7456.71	2330.79	-214.62	2331.20	502391.48	640374.20	1.33	
12739.00	88.04	90.57	10641.56	7459.56	2425.73	-213.69	2426.15	502392.41	640469.15	2.43	
12833.00	87.83	92.78	10644.94	7462.94	2519.62	-216.43	2520.04	502389.67	640563.04	2.36	
12927.00	87.97	92.17	10648.39	7466.39	2613.46	-220.49	2613.89	502385.61	640656.89	0.67	
13022.00	88.81	91.57	10651.06	7469.06	2708.37	-223.59	2708.80	502382.51	640751.80	1.09	
13116.00	90.14	91.93	10651.92	7469.92	2802.31	-226.46	2802.75	502379.64	640845.75	1.47	
13210.00	90.35	91.59	10651.52	7469.52	2896.26	-229.35	2896.70	502376.75	640939.70	0.43	
13305.00	89.93	91.47	10651.29	7469.29	2991.22	-231.88	2991.67	502374.22	641034.67	0.46	
13400.00	90.00	91.34	10651.34	7469.34	3086.19	-234.21	3086.64	502371.89	641129.64	0.16	
13495.00	90.14	90.25	10651.23	7469.23	3181.17	-235.53	3181.63	502370.57	641224.63	1.16	
13590.00	89.79	89.15	10651.29	7469.29	3276.17	-235.03	3276.63	502371.07	641319.63	1.22	
13684.00	92.03	90.83	10649.79	7467.79	3370.15	-235.02	3370.61	502371.08	641413.61	2.98	
13806.00	91.47	89.97	10646.07	7464.07	3492.09	-235.87	3492.55	502370.23	641535.55	0.84	
13901.00	92.17	89.57	10643.05	7461.05	3587.04	-235.49	3587.50	502370.61	641630.50	0.85	
13996.00	92.80	89.29	10638.93	7456.93	3681.94	-234.54	3682.40	502371.56	641725.40	0.73	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
14091.00	92.03	90.14	10634.93	7452.93	3776.86	-234.07	3777.31	502372.03	641820.31	1.21	
14186.00	90.07	90.55	10633.19	7451.19	3871.83	-234.64	3872.29	502371.46	641915.29	2.11	
14280.00	89.58	90.42	10633.47	7451.47	3965.83	-235.44	3966.29	502370.66	642009.29	0.54	
14375.00	89.79	90.21	10634.00	7452.00	4060.82	-235.96	4061.28	502370.14	642104.28	0.31	
14470.00	90.28	89.18	10633.94	7451.94	4155.82	-235.46	4156.28	502370.64	642199.28	1.20	
14565.00	90.00	89.35	10633.71	7451.71	4250.82	-234.24	4251.27	502371.86	642294.27	0.34	
14660.00	88.25	89.52	10635.16	7453.16	4345.80	-233.30	4346.25	502372.80	642389.25	1.85	
14754.00	88.25	89.38	10638.03	7456.03	4439.75	-232.40	4440.21	502373.70	642483.21	0.15	
14849.00	88.67	89.30	10640.58	7458.58	4534.71	-231.30	4535.17	502374.80	642578.17	0.45	
14944.00	89.09	89.23	10642.44	7460.44	4629.69	-230.09	4630.14	502376.01	642673.14	0.45	
15038.00	89.37	89.26	10643.70	7461.70	4723.67	-228.85	4724.12	502377.25	642767.12	0.30	
15133.00	89.72	89.47	10644.46	7462.46	4818.67	-227.79	4819.11	502378.31	642862.11	0.43	
15228.00	89.86	89.09	10644.80	7462.80	4913.66	-226.60	4914.10	502379.50	642957.10	0.43	
15322.00	90.14	89.77	10644.80	7462.80	5007.66	-225.67	5008.10	502380.43	643051.10	0.78	
15416.00	89.44	89.64	10645.15	7463.15	5101.66	-225.18	5102.10	502380.92	643145.10	0.76	
15511.00	88.67	89.48	10646.71	7464.71	5196.64	-224.45	5197.08	502381.65	643240.08	0.83	
15606.00	88.11	89.46	10649.38	7467.38	5291.60	-223.57	5292.04	502382.53	643335.04	0.59	
15700.00	88.81	89.90	10651.91	7469.91	5385.56	-223.05	5386.00	502383.05	643429.00	0.88	
15796.00	88.04	89.39	10654.55	7472.55	5481.53	-222.45	5481.96	502383.65	643524.96	0.96	
15890.00	87.90	88.66	10657.88	7475.88	5575.46	-220.86	5575.89	502385.24	643618.89	0.79	
15985.00	88.04	88.72	10661.24	7479.24	5670.38	-218.69	5670.81	502387.41	643713.81	0.16	
16079.00	88.88	88.43	10663.77	7481.77	5764.32	-216.35	5764.74	502389.75	643807.74	0.95	
16174.00	91.05	88.31	10663.83	7481.83	5859.28	-213.65	5859.70	502392.45	643902.70	2.29	
16269.00	91.82	87.68	10661.45	7479.45	5954.19	-210.32	5954.61	502395.78	643997.61	1.05	
16363.00	90.14	88.93	10659.84	7477.84	6048.14	-207.54	6048.55	502398.56	644091.55	2.23	
16457.00	90.07	88.90	10659.67	7477.67	6142.12	-205.76	6142.53	502400.34	644185.53	0.08	
16552.00	90.56	90.37	10659.15	7477.15	6237.12	-205.16	6237.52	502400.94	644280.52	1.63	
16647.00	90.63	91.07	10658.16	7476.16	6332.10	-206.35	6332.51	502399.75	644375.51	0.74	
16742.00	90.42	90.94	10657.29	7475.29	6427.08	-208.02	6427.49	502398.08	644470.49	0.26	
16836.00	90.14	90.26	10656.83	7474.83	6521.07	-209.00	6521.49	502397.10	644564.49	0.78	
16931.00	89.37	89.11	10657.24	7475.24	6616.07	-208.48	6616.48	502397.62	644659.48	1.46	
17026.00	89.65	90.01	10658.05	7476.05	6711.06	-207.75	6711.47	502398.35	644754.47	0.99	
17121.00	90.14	89.76	10658.22	7476.22	6806.06	-207.56	6806.47	502398.54	644849.47	0.58	
17216.00	88.67	91.14	10659.21	7477.21	6901.05	-208.31	6901.46	502397.79	644944.46	2.12	
17310.00	88.69	91.48	10661.37	7479.37	6994.99	-210.46	6995.41	502395.64	645038.41	0.36	
17405.00	88.25	91.21	10663.91	7481.91	7089.93	-212.68	7090.35	502393.42	645133.35	0.54	
17500.00	88.04	91.40	10666.99	7484.99	7184.85	-214.85	7185.28	502391.25	645228.28	0.30	
17594.00	88.81	92.91	10669.57	7487.57	7278.74	-218.38	7279.17	502387.72	645322.17	1.80	
17688.00	90.00	93.19	10670.55	7488.55	7372.59	-223.38	7373.03	502382.72	645416.03	1.30	
17782.00	90.56	92.72	10670.09	7488.09	7466.45	-228.23	7466.90	502377.87	645509.90	0.78	
17877.00	90.49	92.15	10669.22	7487.22	7561.35	-232.26	7561.81	502373.84	645604.81	0.60	
17971.00	90.56	91.86	10668.36	7486.36	7655.29	-235.55	7655.75	502370.55	645698.75	0.32	
18066.00	89.02	90.54	10668.70	7486.70	7750.26	-237.54	7750.73	502368.56	645793.73	2.14	
18160.00	89.43	90.35	10669.97	7487.97	7844.24	-238.27	7844.71	502367.83	645887.71	0.48	
18254.00	88.53	89.35	10671.65	7489.65	7938.23	-238.03	7938.70	502368.07	645981.70	1.43	
18349.00	88.81	88.88	10673.85	7491.85	8033.19	-236.56	8033.66	502369.54	646076.66	0.58	
18444.00	89.02	88.54	10675.65	7493.65	8128.15	-234.42	8128.62	502371.68	646171.62	0.42	
18539.00	89.65	88.30	10676.75	7494.75	8223.11	-231.80	8223.57	502374.30	646266.57	0.71	
18634.00	89.65	88.42	10677.34	7495.34	8318.08	-229.08	8318.53	502377.02	646361.53	0.13	
18728.00	89.65	88.27	10677.91	7495.91	8412.04	-226.37	8412.49	502379.73	646455.49	0.16	
18823.00	89.44	88.10	10678.66	7496.66	8507.00	-223.36	8507.44	502382.74	646550.44	0.28	
18917.00	89.23	87.94	10679.75	7497.75	8600.94	-220.11	8601.38	502385.99	646644.38	0.28	
19011.00	88.81	87.72	10681.36	7499.36	8694.87	-216.55	8695.30	502389.55	646738.30	0.50	
19106.00	88.04	87.54	10683.97	7501.97	8789.76	-212.63	8790.18	502393.47	646833.18	0.83	
19201.00	89.02	87.56	10686.41	7504.41	8884.64	-208.57	8885.06	502397.53	646928.06	1.03	
19295.00	90.70	88.79	10686.64	7504.64	8978.60	-205.57	8979.01	502400.53	647022.01	2.22	
19390.00	91.68	91.41	10684.67	7502.67	9073.57	-205.74	9073.98	502400.36	647116.98	2.94	
19484.00	91.61	91.91	10681.97	7499.97	9167.48	-208.46	9167.90	502397.64	647210.90	0.54	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
19579.00	90.98	91.29	10679.82	7497.82	9262.42	-211.11	9262.84	502394.99	647305.84	0.93	
19674.00	90.98	91.13	10678.20	7496.20	9357.38	-213.12	9357.80	502392.98	647400.80	0.17	
19769.00	90.56	90.72	10676.92	7494.92	9452.35	-214.65	9452.78	502391.45	647495.78	0.62	
19863.00	89.86	90.73	10676.58	7494.58	9546.34	-215.84	9546.77	502390.26	647589.77	0.74	
19958.00	91.19	90.78	10675.71	7493.71	9641.32	-217.09	9641.76	502389.01	647684.76	1.40	
20053.00	91.75	90.78	10673.27	7491.27	9736.28	-218.38	9736.72	502387.72	647779.72	0.59	
20148.00	89.16	91.13	10672.51	7490.51	9831.25	-219.97	9831.69	502386.13	647874.69	2.75	
20242.00	89.09	91.58	10673.95	7491.95	9925.21	-222.19	9925.66	502383.91	647968.66	0.48	
20337.00	90.35	92.59	10674.41	7492.41	10020.14	-225.65	10020.59	502380.45	648063.59	1.70	
20431.00	87.90	91.48	10675.85	7493.85	10114.05	-228.98	10114.51	502377.12	648157.51	2.86	
20525.00	87.34	91.48	10679.75	7497.75	10207.93	-231.41	10208.40	502374.69	648251.40	0.60	
20620.00	87.20	92.19	10684.28	7502.28	10302.77	-234.45	10303.24	502371.65	648346.24	0.76	
20715.00	89.30	91.55	10687.18	7505.18	10397.66	-237.55	10398.14	502368.55	648441.14	2.31	
20809.00	88.32	90.54	10689.13	7507.13	10491.62	-239.26	10492.10	502366.84	648535.10	1.50	
20903.00	87.13	89.79	10692.86	7510.86	10585.54	-239.53	10586.02	502366.57	648629.02	1.50	
20998.00	86.99	89.53	10697.73	7515.73	10680.42	-238.97	10680.90	502367.13	648723.90	0.31	
21065.00	87.06	89.42	10701.21	7519.21	10747.33	-238.36	10747.80	502367.74	648790.80	0.19	Last WFT SVY
21135.00	87.06	89.42	10704.80	7522.80	10817.23	-237.65	10817.71	502368.45	648860.71	0.00	PTB

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	
Rustler	182.01	1.10	133.00	182.00	-3000.00	-1.19	1.27	502604.91	638044.27	
Salado	547.13	1.34	45.47	547.00	-2635.00	0.06	8.62	502606.16	638051.62	
Base Salt	3263.87	2.99	87.65	3262.00	80.00	21.42	70.15	502627.52	638113.15	
Delaware/Lamar	3529.17	2.31	68.89	3527.00	345.00	22.69	82.68	502628.79	638125.68	
Bell Canyon	3574.21	2.21	65.38	3572.00	390.00	23.38	84.32	502629.48	638127.32	
Cherry Canyon	4452.75	1.49	29.85	4450.00	1268.00	45.14	105.06	502651.24	638148.06	
Base Manzanita	4640.81	1.54	29.35	4638.00	1456.00	49.40	107.48	502655.50	638150.48	
Brushy Canyon	6010.35	1.37	25.56	6007.00	2825.00	85.82	117.67	502691.92	638160.67	
Basal Brushy Canyon	7086.64	1.07	57.22	7083.00	3901.00	103.87	134.39	502709.97	638177.39	
Base Brushy Canyon Sands	7342.67	0.78	56.05	7339.00	4157.00	105.96	137.47	502712.06	638180.47	
Bone Spring	7368.67	0.76	54.65	7365.00	4183.00	106.15	137.77	502712.25	638180.77	
Avalon Sand	7472.68	0.57	36.29	7469.00	4287.00	107.01	138.61	502713.11	638181.61	
Lower Avalon Shale	7961.69	0.53	270.71	7958.00	4776.00	108.54	138.07	502714.64	638181.07	
First Bone Spring Sand	8382.74	1.56	317.92	8379.00	5197.00	111.20	133.31	502717.30	638176.31	
Second Bone Spring Limestone	8850.89	1.20	319.26	8847.00	5665.00	119.77	125.36	502725.87	638168.36	
Second Bone Spring Sand	9117.92	1.42	140.07	9114.00	5932.00	120.59	125.61	502726.69	638168.61	
Third Bone Spring Limestone	9539.12	1.50	154.49	9535.00	6353.00	109.43	131.29	502715.53	638174.29	
Third Bone Spring Sand	10374.18	40.38	131.29	10313.00	7131.00	-72.40	218.13	502533.70	638261.13	
Third Bone Spring RH Sand	10929.89	76.15	96.26	10613.00	7431.00	-258.01	622.37	502348.09	638665.37	
Wolfcamp	21080.36	87.06	89.42	10702.00	7520.00	-238.20	10763.15	502367.90	648806.15	



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 October 27, 2018 through November 8 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 216 feet to a depth of 8,167 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: James Ranch Unit D1 1A #204H 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



Weatherford

Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

XTO Energy
6401 Holliday Hill Road
Midland, TX 79707

Date: January 22, 2019

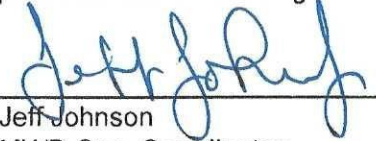
Attention: Robert Carlton

Re: XTO Energy
Well: James Ranch Unit DI 1A 204H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

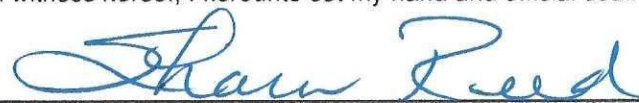
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Joesf Hertzog MWD Ops. Coordinator	204H	8,245 MD 21,065 MD	1/2/2019 1/18/2019	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jeff Johnson
MWD Ops. Coordinator

On this, the 22nd day of January, 2019, before me a notary public, the undersigned officer, personally appeared Jeff Johnson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public

