

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

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 09 2019
RECEIVED

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- 44897	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 325593	⁵ Property Name POKER LAKE UNIT 18 BD	⁶ Well Number 161H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,163'

¹⁰ Surface Location

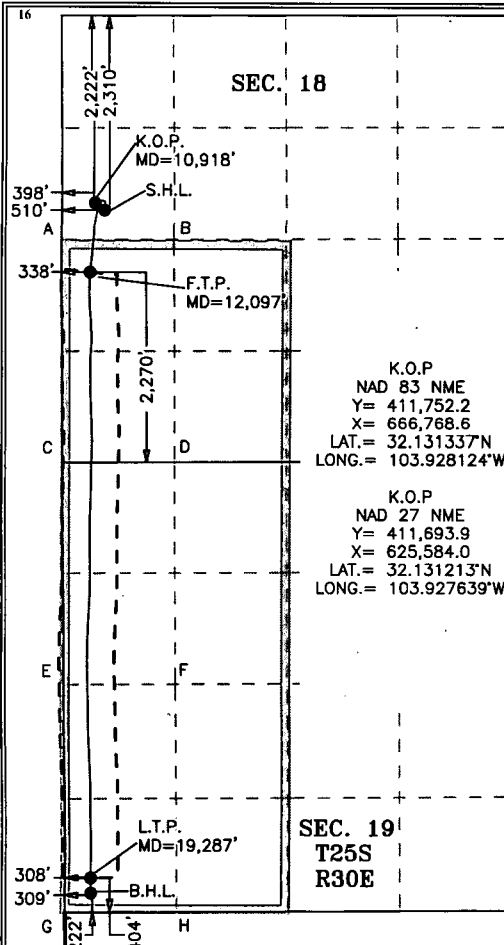
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	18	25 S	30 E		2,310'	NORTH	510'	WEST	EDDY

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
4	19	25 S	30 E		222'	SOUTH	309'	WEST	EDDY

¹² Dedicated Acres 482.62	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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 411,606.6 X= 625,697.0 LAT.= 32.130972°N LONG.= 103.927275°W FIRST TAKE POINT NAD 27 NME Y= 410,865.8 X= 625,529.1 LAT.= 32.128937°N LONG.= 103.927827°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 411,254.3 N, X= 625,189.0 E B - Y= 411,260.5 N, X= 626,533.3 E C - Y= 408,594.2 N, X= 625,204.2 E D - Y= 408,601.2 N, X= 626,548.3 E E - Y= 405,935.1 N, X= 625,221.5 E F - Y= 405,943.0 N, X= 626,563.0 E G - Y= 403,277.4 N, X= 625,238.2 E H - Y= 403,285.0 N, X= 626,577.4 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 411,312.6 N, X= 666,373.6 E B - Y= 411,318.8 N, X= 667,717.9 E C - Y= 408,652.4 N, X= 666,388.9 E D - Y= 408,659.4 N, X= 667,733.0 E E - Y= 405,993.3 N, X= 666,406.3 E F - Y= 406,001.2 N, X= 667,747.8 E G - Y= 403,335.5 N, X= 666,423.1 E H - Y= 403,343.1 N, X= 667,762.3 E LAST TAKE POINT NAD 27 NME Y= 403,683.0 X= 625,543.5 LAT.= 32.109192°N LONG.= 103.927867°W BOTTOM HOLE LOCATION NAD 27 NME Y= 403,501.1 X= 625,545.9 LAT.= 32.108692°N LONG.= 103.927862°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 411,664.9 X= 666,881.6 LAT.= 32.131096°N LONG.= 103.927760°W FIRST TAKE POINT NAD 83 NME Y= 410,924.1 X= 666,713.7 LAT.= 32.129061°N LONG.= 103.928312°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 411,254.3 N, X= 625,189.0 E B - Y= 411,260.5 N, X= 626,533.3 E C - Y= 408,594.2 N, X= 625,204.2 E D - Y= 408,601.2 N, X= 626,548.3 E E - Y= 405,935.1 N, X= 625,221.5 E F - Y= 405,943.0 N, X= 626,563.0 E G - Y= 403,277.4 N, X= 625,238.2 E H - Y= 403,285.0 N, X= 626,577.4 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 411,312.6 N, X= 666,373.6 E B - Y= 411,318.8 N, X= 667,717.9 E C - Y= 408,652.4 N, X= 666,388.9 E D - Y= 408,659.4 N, X= 667,733.0 E E - Y= 405,993.3 N, X= 666,406.3 E F - Y= 406,001.2 N, X= 667,747.8 E G - Y= 403,335.5 N, X= 666,423.1 E H - Y= 403,343.1 N, X= 667,762.3 E LAST TAKE POINT NAD 83 NME Y= 403,741.1 X= 666,728.4 LAT.= 32.109316°N LONG.= 103.928351°W BOTTOM HOLE LOCATION NAD 83 NME Y= 403,559.2 X= 666,730.8 LAT.= 32.108816°N LONG.= 103.928346°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Cheryl Rowell 9/4/19 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. 9-4-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2017050629		
			
	P:\PROJECTS\2017\2017050629-XTO-PLU 18 BRUSHY DRAW 161H-EDDY\DWG\2017050629 XTO PLU-18-BRUSHY-DRAW-161H AS-DRILL.dwg		

Rw 10-28-19

Intent ☐ As Drilled ☒ XX

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 09 2019

API #
30-015-44897

Operator Name:	Property Name:	Well Number
XTO Permian Operating LLC	Poker Lake Unit 18 BD	161H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	18	25S	30E		2222	North	398	West	Eddy
Latitude					Longitude			NAD	
32.131337					103.928124			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	18	25S	30E		2270	South	338	West	Eddy
Latitude					Longitude			NAD	
32.129061					103.928312			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	19	25S	30E		404	South	308	West	Eddy
Latitude					Longitude			NAD	
32.109316					103.928351			83	

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

Is this well an infill well? ☒ xx

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

API #
30-015-44891

Operator Name:	Property Name:	Well Number
XTO Permian Operating LLC	Poker Lake Unit 18 BD	103H

KZ 06/29/2018



NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 09 2019

RECEIVED

XTO ENERGY, INC.

Eddy County, NM

Sec 18, T25S, R30E (Grid North)

Poker Lake Unit 18 Brushy Draw #161H

Wellbore #1

Design: Wellbore #1

QES Survey Report

19 December, 2018





Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	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 18, T25S, R30E (Grid North)		
Site Position:		Northing:	411,610.00 usft
From:	Map	Easting:	626,551.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 51.500 N
		Longitude:	103° 55' 28.249 W
		Grid Convergence:	0.22 °

Well	Poker Lake Unit 18 Brushy Draw #161H					
Well Position	+N/-S	0.0 usft	Northing:	411,606.70 usft	Latitude:	32° 7' 51.500 N
	+E/-W	0.0 usft	Easting:	625,696.90 usft	Longitude:	103° 55' 38.193 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,163.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/7/2018	6.96	59.90	47,704.27310839

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	180.91	

Survey Program	Date 12/15/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
116.3	10,623.0	GYRO (Wellbore #1)	GYRO-NS	Gyrocompass Gyro	
10,775.0	19,469.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
116.3	0.13	50.27	116.3	0.1	0.1	-0.1	0.11	0.11	0.00	
210.1	0.14	348.77	210.1	0.3	0.2	-0.3	0.15	0.01	-65.56	
303.9	0.17	327.87	303.9	0.5	0.1	-0.5	0.07	0.03	-22.28	
397.7	0.29	109.29	397.7	0.5	0.2	-0.5	0.46	0.13	150.75	
491.5	0.50	100.57	491.5	0.4	0.8	-0.4	0.23	0.22	-9.30	
585.3	0.60	102.82	585.3	0.2	1.7	-0.2	0.11	0.11	2.40	
679.1	0.72	175.79	679.1	-0.5	2.2	0.5	0.84	0.13	77.78	
772.9	0.71	177.31	772.9	-1.7	2.3	1.6	0.02	-0.01	1.62	
866.8	0.87	177.41	866.7	-3.0	2.4	2.9	0.17	0.17	0.11	



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
960.6	1.15	180.26	960.5	-4.6	2.4	4.6	0.30	0.30	3.04
1,054.4	0.79	195.41	1,054.3	-6.2	2.2	6.1	0.47	-0.38	16.15
1,148.2	0.67	198.72	1,148.1	-7.3	1.9	7.3	0.14	-0.13	3.53
1,242.0	0.70	184.90	1,241.9	-8.4	1.7	8.4	0.18	0.03	-14.73
1,335.8	0.82	177.99	1,335.7	-9.7	1.6	9.6	0.16	0.13	-7.37
1,429.6	0.96	177.13	1,429.5	-11.1	1.7	11.1	0.15	0.15	-0.92
1,523.4	1.18	193.46	1,523.3	-12.8	1.5	12.8	0.40	0.23	17.41
1,617.2	1.78	215.23	1,617.1	-15.0	0.4	15.0	0.87	0.64	23.21
1,711.0	2.00	243.09	1,710.9	-16.9	-1.9	16.9	1.00	0.23	29.70
1,804.9	2.11	267.37	1,804.6	-17.7	-5.0	17.8	0.93	0.12	25.88
1,898.7	2.09	266.41	1,898.4	-17.9	-8.5	18.0	0.04	-0.02	-1.02
1,992.5	2.08	269.38	1,992.1	-18.0	-11.9	18.2	0.12	-0.01	3.17
2,086.3	2.22	272.25	2,085.9	-18.0	-15.4	18.2	0.19	0.15	3.06
2,180.1	2.54	284.76	2,179.6	-17.4	-19.2	17.7	0.65	0.34	13.34
2,273.9	2.44	281.31	2,273.3	-16.4	-23.2	16.8	0.19	-0.11	-3.68
2,367.7	2.41	284.63	2,367.0	-15.6	-27.1	16.0	0.15	-0.03	3.54
2,461.5	2.54	279.01	2,460.8	-14.7	-31.0	15.2	0.29	0.14	-5.99
2,555.3	2.62	278.99	2,554.5	-14.1	-35.2	14.6	0.09	0.09	-0.02
2,649.1	2.51	283.49	2,648.2	-13.3	-39.3	13.9	0.24	-0.12	4.80
2,743.0	2.53	277.62	2,741.9	-12.5	-43.4	13.2	0.28	0.02	-6.26
2,836.8	1.85	262.29	2,835.6	-12.4	-46.9	13.2	0.95	-0.72	-16.34
2,930.6	1.82	254.52	2,929.4	-13.0	-49.9	13.8	0.27	-0.03	-8.28
3,024.4	1.81	261.96	3,023.2	-13.6	-52.8	14.5	0.25	-0.01	7.93
3,118.2	1.62	250.64	3,116.9	-14.3	-55.5	15.2	0.41	-0.20	-12.07
3,212.0	1.43	251.57	3,210.7	-15.1	-57.8	16.0	0.20	-0.20	0.99
3,305.8	1.80	255.88	3,304.5	-15.8	-60.4	16.8	0.41	0.39	4.59
3,399.6	1.69	271.29	3,398.3	-16.2	-63.2	17.2	0.51	-0.12	16.43
3,493.4	1.83	259.10	3,492.0	-16.4	-66.0	17.5	0.43	0.15	-12.99
3,587.2	1.34	267.29	3,585.8	-16.7	-68.6	17.8	0.57	-0.52	8.73
3,681.1	0.54	251.61	3,679.6	-16.9	-70.1	18.0	0.89	-0.85	-16.71
3,774.9	0.10	213.24	3,773.4	-17.1	-70.6	18.3	0.50	-0.47	-40.90
3,868.7	0.22	173.01	3,867.2	-17.4	-70.6	18.5	0.17	0.13	-42.88
3,962.5	1.10	108.13	3,961.0	-17.8	-69.7	19.0	1.09	0.94	-69.16
4,056.3	1.87	77.03	4,054.8	-17.8	-67.4	18.9	1.16	0.82	-33.15
4,150.1	2.80	65.87	4,148.5	-16.5	-63.8	17.5	1.10	0.99	-11.90
4,243.9	3.82	63.76	4,242.2	-14.2	-58.9	15.1	1.09	1.09	-2.25
4,337.7	4.45	52.40	4,335.7	-10.6	-53.2	11.4	1.10	0.67	-12.11
4,431.5	5.23	40.45	4,429.2	-5.1	-47.6	5.9	1.35	0.83	-12.74
4,525.3	5.75	38.42	4,522.6	1.8	-41.9	-1.2	0.59	0.55	-2.16
4,619.2	5.74	33.86	4,615.9	9.4	-36.3	-8.8	0.49	-0.01	-4.86
4,713.0	6.01	34.61	4,709.3	17.3	-30.9	-16.8	0.30	0.29	0.80
4,806.8	6.06	38.73	4,802.5	25.2	-25.0	-24.8	0.46	0.05	4.39
4,900.6	5.90	35.20	4,895.8	33.0	-19.2	-32.7	0.43	-0.17	-3.76



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,994.4	5.76	38.50	4,989.2	40.7	-13.5	-40.5	0.39	-0.15	3.52	
5,088.2	5.76	36.21	5,082.5	48.2	-7.7	-48.0	0.24	0.00	-2.44	
5,182.0	5.77	36.65	5,175.8	55.7	-2.1	-55.7	0.05	0.01	0.47	
5,275.8	5.46	34.51	5,269.2	63.2	3.2	-63.2	0.40	-0.33	-2.28	
5,369.6	4.42	359.50	5,362.7	70.5	5.7	-70.6	3.34	-1.11	-37.32	
5,463.4	4.54	352.45	5,456.2	77.8	5.2	-77.9	0.60	0.13	-7.52	
5,557.3	4.55	350.12	5,549.7	85.1	4.1	-85.2	0.20	0.01	-2.48	
5,651.1	4.25	337.82	5,643.3	92.0	2.1	-92.0	1.05	-0.32	-13.11	
5,744.9	3.18	319.84	5,736.9	97.2	-0.9	-97.2	1.67	-1.14	-19.17	
5,838.7	3.28	288.49	5,830.5	100.1	-5.1	-100.0	1.86	0.11	-33.42	
5,932.5	3.20	278.75	5,924.2	101.3	-10.2	-101.1	0.59	-0.09	-10.38	
6,026.3	2.84	282.15	6,017.9	102.2	-15.1	-101.9	0.43	-0.38	3.62	
6,120.1	2.43	253.54	6,111.6	102.1	-19.3	-101.8	1.45	-0.44	-30.50	
6,213.9	2.51	252.04	6,205.3	100.9	-23.1	-100.5	0.11	0.09	-1.60	
6,307.7	2.53	249.75	6,299.0	99.6	-27.0	-99.1	0.11	0.02	-2.44	
6,401.5	1.71	240.43	6,392.8	98.2	-30.2	-97.7	0.95	-0.87	-9.93	
6,495.4	2.00	239.59	6,486.5	96.7	-32.8	-96.1	0.31	0.31	-0.90	
6,589.2	1.57	231.04	6,580.3	95.0	-35.2	-94.4	0.54	-0.46	-9.11	
6,683.0	0.65	229.26	6,674.1	93.9	-36.6	-93.3	0.98	-0.98	-1.90	
6,776.8	0.24	302.62	6,767.9	93.6	-37.2	-93.0	0.67	-0.44	78.20	
6,870.6	0.23	300.50	6,861.7	93.8	-37.5	-93.2	0.01	-0.01	-2.26	
6,964.4	0.25	223.11	6,955.5	93.8	-37.8	-93.2	0.32	0.02	-82.50	
7,058.2	0.30	281.05	7,049.3	93.7	-38.2	-93.0	0.29	0.05	61.76	
7,152.0	0.30	264.46	7,143.1	93.7	-38.7	-93.1	0.09	0.00	-17.68	
7,245.8	0.67	246.12	7,237.0	93.4	-39.5	-92.8	0.42	0.39	-19.55	
7,339.6	0.94	230.20	7,330.8	92.7	-40.5	-92.1	0.37	0.29	-16.97	
7,433.5	0.93	233.76	7,424.5	91.8	-41.8	-91.1	0.06	-0.01	3.79	
7,527.3	1.23	231.15	7,518.3	90.7	-43.2	-90.0	0.32	0.32	-2.78	
7,621.1	1.51	237.85	7,612.1	89.4	-45.0	-88.7	0.34	0.30	7.14	
7,714.9	1.60	247.81	7,705.9	88.3	-47.2	-87.5	0.30	0.10	10.62	
7,808.7	1.82	266.59	7,799.7	87.7	-49.9	-86.9	0.64	0.23	20.02	
7,902.5	1.66	261.05	7,893.4	87.4	-52.8	-86.5	0.25	-0.17	-5.91	
7,996.3	1.46	265.02	7,987.2	87.1	-55.3	-86.2	0.24	-0.21	4.23	
8,090.1	1.53	282.13	8,081.0	87.2	-57.7	-86.3	0.48	0.07	18.24	
8,183.9	1.36	289.63	8,174.8	87.9	-60.0	-86.9	0.27	-0.18	7.99	
8,277.7	1.23	273.40	8,268.6	88.3	-62.0	-87.3	0.41	-0.14	-17.30	
8,371.6	1.28	272.11	8,362.3	88.4	-64.1	-87.4	0.06	0.05	-1.38	
8,465.4	1.30	311.21	8,456.1	89.1	-65.9	-88.1	0.92	0.02	41.68	
8,559.2	1.41	273.08	8,549.9	89.9	-67.9	-88.8	0.95	0.12	-40.65	
8,653.0	1.35	269.94	8,643.7	90.0	-70.2	-88.8	0.10	-0.06	-3.35	
8,746.8	1.23	268.16	8,737.5	89.9	-72.3	-88.8	0.13	-0.13	-1.90	
8,840.6	0.79	285.72	8,831.3	90.1	-73.9	-88.9	0.57	-0.47	18.72	
8,934.4	0.90	275.13	8,925.1	90.3	-75.3	-89.1	0.20	0.12	-11.29	



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,028.2	0.92	275.49	9,018.9	90.4	-76.7	-89.2	0.02	0.02	0.38
9,122.0	1.38	274.32	9,112.7	90.6	-78.6	-89.3	0.49	0.49	-1.25
9,215.8	1.51	265.70	9,206.5	90.6	-81.0	-89.3	0.27	0.14	-9.19
9,309.7	1.49	247.82	9,300.2	90.0	-83.3	-88.7	0.50	-0.02	-19.06
9,403.5	1.37	233.99	9,394.0	88.9	-85.4	-87.6	0.39	-0.13	-14.74
9,497.3	1.73	228.02	9,487.8	87.3	-87.3	-85.9	0.42	0.38	-6.36
9,591.1	1.73	227.25	9,581.6	85.4	-89.4	-84.0	0.02	0.00	-0.82
9,684.9	1.61	216.92	9,675.3	83.4	-91.3	-81.9	0.34	-0.13	-11.01
9,778.7	1.54	221.28	9,769.1	81.4	-92.9	-79.9	0.15	-0.07	4.65
9,872.5	1.54	227.76	9,862.9	79.6	-94.6	-78.1	0.19	0.00	6.91
9,966.3	1.59	241.56	9,956.7	78.1	-96.7	-76.6	0.40	0.05	14.71
10,060.1	1.86	263.36	10,050.4	77.3	-99.4	-75.7	0.75	0.29	23.24
10,153.9	2.36	268.42	10,144.2	77.1	-102.8	-75.5	0.57	0.53	5.39
10,247.8	2.36	266.68	10,237.9	76.9	-106.7	-75.2	0.08	0.00	-1.85
10,341.6	2.40	269.45	10,331.6	76.8	-110.6	-75.0	0.13	0.04	2.95
10,435.4	2.25	265.88	10,425.4	76.7	-114.4	-74.8	0.22	-0.16	-3.81
10,529.2	2.10	258.60	10,519.1	76.2	-117.9	-74.3	0.33	-0.16	-7.76
Gyro Tie-in @ 10623.0' MD / 10612.9' TVD									
10,623.0	1.84	261.87	10,612.9	75.6	-121.1	-73.7	0.30	-0.28	3.49
10,775.0	1.50	207.08	10,764.8	73.5	-124.4	-71.5	1.03	-0.22	-36.05
10,870.0	5.50	129.48	10,859.6	69.5	-121.4	-67.6	5.66	4.21	-81.68
10,917.0	7.00	132.38	10,906.4	66.2	-117.6	-64.3	3.26	3.19	6.17
10,964.0	11.90	134.58	10,952.7	60.8	-112.0	-59.0	10.45	10.43	4.68
11,011.0	18.10	143.38	10,998.1	51.5	-104.2	-49.9	14.02	13.19	18.72
11,058.0	21.30	157.08	11,042.4	37.8	-96.5	-36.3	11.91	6.81	29.15
11,105.0	24.60	170.08	11,085.7	20.3	-91.5	-18.8	12.83	7.02	27.66
11,152.0	27.70	180.88	11,127.9	-0.3	-90.0	1.7	12.06	6.60	22.98
11,200.0	29.20	189.78	11,170.1	-23.0	-92.1	24.4	9.36	3.13	18.54
11,247.0	29.80	195.38	11,211.0	-45.5	-97.2	47.1	6.00	1.28	11.91
11,295.0	33.60	190.08	11,251.8	-70.1	-102.7	71.8	9.81	7.92	-11.04
11,343.0	35.60	188.58	11,291.3	-97.0	-107.1	98.7	4.53	4.17	-3.13
11,391.0	38.00	188.68	11,329.8	-125.5	-111.4	127.2	5.00	5.00	0.21
11,438.0	42.60	187.78	11,365.6	-155.5	-115.8	157.4	9.87	9.79	-1.91
11,486.0	47.60	184.68	11,399.5	-189.3	-119.4	191.2	11.37	10.42	-6.46
11,534.0	52.90	182.38	11,430.2	-226.1	-121.7	228.0	11.64	11.04	-4.79
11,581.0	59.60	182.38	11,456.3	-265.2	-123.3	267.1	14.26	14.26	0.00
11,629.0	64.50	183.88	11,478.8	-307.5	-125.6	309.4	10.57	10.21	3.13
11,676.0	69.00	185.08	11,497.3	-350.5	-129.0	352.5	9.86	9.57	2.55
Crossed LL @ 11676.2' MD / 11497.4' TVD									
11,676.2	69.00	185.08	11,497.4	-350.7	-129.0	352.7	0.00	0.00	0.00
11,724.0	73.30	185.28	11,512.8	-395.7	-133.1	397.8	9.00	9.00	0.42
11,772.0	73.70	184.78	11,526.4	-441.6	-137.1	443.7	1.30	0.83	-1.04
11,819.0	76.60	184.28	11,538.5	-486.9	-140.7	489.1	6.26	6.17	-1.06
11,867.0	82.90	185.88	11,547.0	-533.9	-144.9	536.1	13.53	13.13	3.33

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,913.0	86.80	187.38	11,551.2	-579.4	-150.2	581.7	9.08	8.48	3.26
12,005.0	87.80	185.38	11,555.5	-670.7	-160.4	673.2	2.43	1.09	-2.17
FTP @ 12035.2' MD / 11556.3' TVD									
12,035.2	89.31	185.48	11,556.3	-700.8	-163.3	703.3	5.01	5.00	0.32
12,099.0	92.50	185.68	11,555.2	-764.3	-169.5	766.9	5.01	5.00	0.32
12,192.0	90.10	182.48	11,553.1	-857.0	-176.1	859.7	4.30	-2.58	-3.44
12,286.0	86.20	180.78	11,556.2	-950.9	-178.8	953.6	4.53	-4.15	-1.81
12,381.0	86.70	178.18	11,562.1	-1,045.7	-177.9	1,048.4	2.78	0.53	-2.74
12,475.0	89.80	176.68	11,564.9	-1,139.5	-173.7	1,142.1	3.66	3.30	-1.60
12,568.0	88.70	175.48	11,566.1	-1,232.3	-167.4	1,234.8	1.75	-1.18	-1.29
12,662.0	92.20	175.68	11,565.4	-1,326.0	-160.1	1,328.4	3.73	3.72	0.21
12,757.0	90.20	176.68	11,563.4	-1,420.8	-153.8	1,423.0	2.35	-2.11	1.05
12,850.0	90.30	178.38	11,563.0	-1,513.7	-149.8	1,515.9	1.83	0.11	1.83
12,944.0	89.20	183.08	11,563.4	-1,607.6	-151.0	1,609.8	5.13	-1.17	5.00
13,038.0	89.50	184.38	11,564.5	-1,701.4	-157.1	1,703.7	1.42	0.32	1.38
13,132.0	89.30	181.88	11,565.5	-1,795.3	-162.3	1,797.6	2.67	-0.21	-2.66
13,224.0	90.60	179.98	11,565.6	-1,887.3	-163.8	1,889.6	2.50	1.41	-2.07
13,318.0	88.00	177.98	11,566.7	-1,981.2	-162.1	1,983.5	3.49	-2.77	-2.13
13,413.0	89.20	179.78	11,569.0	-2,076.2	-160.3	2,078.5	2.28	1.26	1.89
13,507.0	89.90	179.28	11,569.8	-2,170.2	-159.5	2,172.4	0.92	0.74	-0.53
13,600.0	90.10	178.78	11,569.8	-2,263.1	-157.9	2,265.4	0.58	0.22	-0.54
13,694.0	89.50	177.08	11,570.1	-2,357.1	-154.5	2,359.2	1.92	-0.64	-1.81
13,788.0	88.60	175.88	11,571.6	-2,450.9	-148.8	2,452.9	1.60	-0.96	-1.28
13,883.0	88.60	176.58	11,574.0	-2,545.7	-142.5	2,547.6	0.74	0.00	0.74
13,976.0	87.60	177.38	11,577.0	-2,638.5	-137.7	2,640.3	1.38	-1.08	0.86
14,072.0	93.10	181.18	11,576.5	-2,734.4	-136.5	2,736.2	6.96	5.73	3.96
14,165.0	93.20	181.78	11,571.4	-2,827.2	-138.9	2,829.1	0.65	0.11	0.65
14,259.0	94.60	181.28	11,565.0	-2,921.0	-141.4	2,922.9	1.58	1.49	-0.53
14,353.0	93.90	181.38	11,558.0	-3,014.7	-143.5	3,016.6	0.75	-0.74	0.11
14,447.0	90.90	180.98	11,554.1	-3,108.6	-145.5	3,110.5	3.22	-3.19	-0.43
14,541.0	90.00	179.68	11,553.3	-3,202.6	-146.0	3,204.5	1.68	-0.96	-1.38
14,636.0	89.60	180.58	11,553.7	-3,297.6	-146.3	3,299.5	1.04	-0.42	0.95
14,729.0	88.20	179.78	11,555.4	-3,390.6	-146.6	3,392.5	1.73	-1.51	-0.86
14,825.0	94.90	182.78	11,552.8	-3,486.4	-148.7	3,488.4	7.65	6.98	3.13
14,919.0	94.00	181.88	11,545.5	-3,580.1	-152.5	3,582.0	1.35	-0.96	-0.96
15,013.0	92.60	181.18	11,540.1	-3,673.9	-155.0	3,675.9	1.66	-1.49	-0.74
15,107.0	88.30	180.18	11,539.4	-3,767.8	-156.2	3,769.8	4.70	-4.57	-1.06
15,203.0	89.80	181.08	11,541.0	-3,863.8	-157.2	3,865.8	1.82	1.56	0.94
15,299.0	89.50	180.38	11,541.6	-3,959.8	-158.4	3,961.8	0.79	-0.31	-0.73
15,394.0	88.70	178.78	11,543.1	-4,054.8	-157.8	4,056.8	1.88	-0.84	-1.68
15,489.0	89.40	177.98	11,544.6	-4,149.7	-155.1	4,151.7	1.12	0.74	-0.84
15,583.0	90.90	179.28	11,544.4	-4,243.7	-152.8	4,245.6	2.11	1.60	1.38
15,678.0	88.90	179.28	11,544.6	-4,338.7	-151.6	4,340.6	2.11	-2.11	0.00



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,772.0	88.20	180.98	11,546.9	-4,432.7	-151.9	4,434.5	1.96	-0.74	1.81
15,867.0	89.50	180.98	11,548.8	-4,527.6	-153.5	4,529.5	1.37	1.37	0.00
15,961.0	91.10	181.98	11,548.4	-4,621.6	-155.9	4,623.5	2.01	1.70	1.06
16,054.0	88.80	182.88	11,548.4	-4,714.5	-159.9	4,716.4	2.66	-2.47	0.97
16,148.0	87.30	182.58	11,551.6	-4,808.3	-164.4	4,810.3	1.63	-1.60	-0.32
16,240.0	88.90	182.68	11,554.7	-4,900.2	-168.6	4,902.2	1.74	1.74	0.11
16,334.0	89.10	182.48	11,556.3	-4,994.1	-172.8	4,996.2	0.30	0.21	-0.21
16,429.0	89.90	181.88	11,557.2	-5,089.0	-176.4	5,091.2	1.05	0.84	-0.63
16,523.0	90.20	181.28	11,557.1	-5,183.0	-179.0	5,185.2	0.71	0.32	-0.64
16,617.0	91.20	181.28	11,555.9	-5,276.9	-181.2	5,279.1	1.06	1.06	0.00
16,737.0	89.20	179.78	11,555.5	-5,396.9	-182.3	5,399.1	2.08	-1.67	-1.25
16,831.0	87.40	178.38	11,558.3	-5,490.9	-180.8	5,493.0	2.43	-1.91	-1.49
16,924.0	89.60	177.98	11,560.7	-5,583.8	-177.8	5,585.9	2.40	2.37	-0.43
17,019.0	90.70	177.78	11,560.5	-5,678.7	-174.3	5,680.8	1.18	1.16	-0.21
17,114.0	88.90	178.68	11,560.8	-5,773.6	-171.4	5,775.6	2.12	-1.89	0.95
17,207.0	86.90	178.98	11,564.2	-5,866.6	-169.5	5,868.5	2.17	-2.15	0.32
17,301.0	88.60	178.78	11,567.9	-5,960.5	-167.7	5,962.4	1.82	1.81	-0.21
17,394.0	88.20	178.48	11,570.5	-6,053.4	-165.5	6,055.3	0.54	-0.43	-0.32
17,487.0	87.80	178.38	11,573.8	-6,146.3	-162.9	6,148.1	0.44	-0.43	-0.11
17,581.0	92.80	178.88	11,573.3	-6,240.3	-160.7	6,242.0	5.35	5.32	0.53
17,674.0	92.00	178.48	11,569.4	-6,333.1	-158.5	6,334.9	0.96	-0.86	-0.43
17,768.0	90.40	178.48	11,567.4	-6,427.1	-156.0	6,428.8	1.70	-1.70	0.00
17,862.0	86.00	177.58	11,570.3	-6,521.0	-152.8	6,522.6	4.78	-4.68	-0.96
17,956.0	86.30	176.48	11,576.7	-6,614.6	-148.0	6,616.1	1.21	0.32	-1.17
18,048.0	88.40	176.48	11,580.9	-6,706.4	-142.3	6,707.8	2.28	2.28	0.00
18,142.0	89.40	177.38	11,582.7	-6,800.2	-137.3	6,801.5	1.43	1.06	0.96
18,235.0	90.60	180.58	11,582.7	-6,893.2	-135.7	6,894.5	3.67	1.29	3.44
18,330.0	89.80	180.18	11,582.4	-6,988.2	-136.3	6,989.5	0.94	-0.84	-0.42
18,424.0	91.10	179.28	11,581.6	-7,082.2	-135.9	7,083.4	1.68	1.38	-0.96
18,517.0	90.90	179.88	11,580.0	-7,175.1	-135.2	7,176.4	0.68	-0.22	0.65
18,612.0	92.30	179.68	11,577.4	-7,270.1	-134.8	7,271.3	1.49	1.47	-0.21
18,707.0	89.40	179.18	11,576.0	-7,365.1	-133.9	7,366.3	3.10	-3.05	-0.53
18,801.0	88.00	178.98	11,578.1	-7,459.0	-132.4	7,460.2	1.50	-1.49	-0.21
18,895.0	90.90	179.58	11,579.0	-7,553.0	-131.2	7,554.1	3.15	3.09	0.64
18,989.0	90.50	178.28	11,577.9	-7,647.0	-129.5	7,648.1	1.45	-0.43	-1.38
19,084.0	90.50	180.28	11,577.0	-7,742.0	-128.3	7,743.0	2.11	0.00	2.11
19,178.0	91.30	180.18	11,575.5	-7,836.0	-128.7	7,837.0	0.86	0.85	-0.11
19,271.0	89.90	179.18	11,574.6	-7,929.0	-128.2	7,930.0	1.85	-1.51	-1.08
LTP @ 19340.1' MD / 11573.7' TVD									
19,340.1	91.57	179.11	11,573.7	-7,998.0	-127.1	7,999.0	2.42	2.42	-0.11
19,366.0	92.20	179.08	11,572.8	-8,023.9	-126.7	8,024.9	2.42	2.42	-0.11
19,419.0	91.70	178.88	11,571.0	-8,076.9	-125.8	8,077.9	1.02	-0.94	-0.38
TD @ 19469.0' MD / 11569.5' TVD									
19,469.0	91.70	178.88	11,569.5	-8,126.8	-124.8	8,127.8	0.00	0.00	0.00



Survey Report



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Poker Lake Unit 18 Brushy Draw #161H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3185.0usft (Akita #22)
Site:	Sec 18, T25S, R30E (Grid North)	MD Reference:	RKB @ 3185.0usft (Akita #22)
Well:	Poker Lake Unit 18 Brushy Draw #161H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,623.0	10,612.9	75.6	-121.1	Gyro Tie-in @ 10623.0' MD / 10612.9' TVD
11,676.2	11,497.4	-350.7	-129.0	Crossed LL@ 11676.2' MD / 11497.4' TVD
12,035.2	11,556.3	-700.8	-163.3	FTP @ 12035.2' MD / 11556.3' TVD
19,340.1	11,573.7	-7,998.0	-127.1	LTP @ 19340.1' MD / 11573.7' TVD
19,469.0	11,569.5	-8,126.8	-124.8	TD @ 19469.0' MD / 11569.5' TVD

Checked By: _____	Approved By: _____	Date: _____
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