

NM OIL CONSERVATION ARTESIA DISTRICT

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

SEP 12 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- 44891	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 325593	⁵ Property Name POKER LAKE UNIT 18 BD	
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	
		⁶ Well Number 103H
		⁹ Elevation 3,168'

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	1,305'	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	19	25 S	30 E		252'	SOUTH	1,464'	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

SEC. 18

SEC. 19
T25S
R30E

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 411,609.4
X= 626,491.4
LAT.= 32.130971°N
LONG.= 103.924709°W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 411,667.7
X= 667,676.0
LAT.= 32.131096°N
LONG.= 103.925194°W

FIRST TAKE POINT
NAD 27 NME
Y= 410,684.7
X= 626,628.0
LAT.= 32.128428°N
LONG.= 103.924279°W

FIRST TAKE POINT
NAD 83 NME
Y= 410,743.0
X= 667,812.7
LAT.= 32.128552°N
LONG.= 103.924763°W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 411,260.5 N, X= 626,533.3 E
B - Y= 411,266.7 N, X= 627,877.5 E
C - Y= 408,601.2 N, X= 626,548.3 E
D - Y= 408,608.3 N, X= 627,892.5 E
E - Y= 405,943.0 N, X= 626,563.0 E
F - Y= 405,951.0 N, X= 627,904.5 E
G - Y= 403,285.0 N, X= 626,577.4 E
H - Y= 403,292.6 N, X= 627,916.6 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 411,318.8 N, X= 667,717.9 E
B - Y= 411,325.0 N, X= 669,062.2 E
C - Y= 408,659.4 N, X= 667,733.0 E
D - Y= 408,666.5 N, X= 669,077.2 E
E - Y= 406,001.2 N, X= 667,747.8 E
F - Y= 406,009.2 N, X= 669,089.3 E
G - Y= 403,343.1 N, X= 667,762.3 E
H - Y= 403,350.7 N, X= 669,101.5 E

LAST TAKE POINT
NAD 27 NME
Y= 403,651.1
X= 626,701.4
LAT.= 32.109092°N
LONG.= 103.924128°W

LAST TAKE POINT
NAD 83 NME
Y= 403,709.2
X= 667,886.3
LAT.= 32.109216°N
LONG.= 103.924612°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 403,538.1
X= 626,700.9
LAT.= 32.108781°N
LONG.= 103.924131°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 403,596.2
X= 667,885.8
LAT.= 32.108906°N
LONG.= 103.924615°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 9/6/19

Signature _____ Date _____

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.

9-5-2019
Date of Survey _____

Signature and Seal of Professional Surveyor: _____

MARK DILLON HARP 23786
Certificate Number _____ JC 2017050636

Intent ☐ As Drilled ☒ XX

SEP 12 2019

API #
30-015-44891

RECEIVED

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

Kick Off Point (KOP)

UL F	Section 18	Township 25S	Range 30E	Lot	Feet 2459	From N/S North	Feet 1421	From E/W West	County Eddy
Latitude 32.130687					Longitude 103.924818			NAD 83	

First Take Point (FTP)

UL K	Section 18	Township 25S	Range 30E	Lot	Feet 2083	From N/S South	Feet 1436	From E/W West	County Eddy
Latitude 32.128552					Longitude 103.924763			NAD 83	

Last Take Point (LTP)

UL N	Section 19	Township 25S	Range 30E	Lot	Feet 365	From N/S South	Feet 1466	From E/W West	County Eddy
Latitude 32.109216					Longitude 103.924612			NAD 83	

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

Is this well an infill well? ☐

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

API #	Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SEP 12 2019



Wellbenders

End Of Well Report

RECEIVED



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Project	Eddy County, NM (Nad-27 / East Zone)		
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	Poker Lake Unit 18 BD		
Site Position:		Northing:	411,609.60 usft
From:	Map	Easting:	626,461.90 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.130972
		Longitude:	-103.924804
		Grid Convergence:	0.217 °

Well	#103H					
Well Position	+N/-S	0.00 usft	Northing:	411,609.70 usft	Latitude:	32.130972
	+E/-W	0.00 usft	Easting:	626,491.80 usft	Longitude:	-103.924708
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,168.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/29/2018	6.963	59.903	47,707.02669420

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.65	

Survey Program	Date 1/23/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.00	18,319.00	Survey #1 (OH)	WBDS_IGRF	OWSG MWD + IGRF or WMM	



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
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Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
181.00	0.30	239.60	181.00	-0.24	-0.41	0.24	181.00	239.60	0.17	
274.00	0.30	221.10	274.00	-0.55	-0.78	0.54	93.00	230.35	0.10	
438.00	0.20	124.50	438.00	-1.03	-0.83	1.03	164.00	185.45	0.23	
508.00	0.60	112.10	508.00	-1.24	-0.38	1.24	70.00	115.19	0.58	
634.00	0.90	88.90	633.98	-1.47	1.22	1.48	126.00	98.15	0.33	
715.00	1.60	85.40	714.96	-1.37	2.98	1.38	81.00	86.66	0.87	
810.00	2.00	86.20	809.92	-1.15	5.96	1.19	95.00	85.84	0.42	
904.00	2.40	87.30	903.85	-0.95	9.56	1.01	94.00	86.80	0.43	
999.00	2.40	91.50	998.76	-0.91	13.53	0.99	95.00	89.40	0.19	
1,098.00	1.40	98.50	1,097.71	-1.14	16.80	1.24	99.00	94.08	1.04	
1,189.00	0.90	162.20	1,188.69	-1.98	18.12	2.09	91.00	122.66	1.41	
1,284.00	1.10	256.30	1,283.68	-2.91	17.46	3.02	95.00	215.38	1.55	
1,380.00	1.40	267.00	1,379.66	-3.19	15.40	3.28	96.00	262.29	0.39	
1,474.00	1.30	269.20	1,473.64	-3.27	13.18	3.35	94.00	268.06	0.12	
1,569.00	1.50	260.00	1,568.61	-3.50	10.88	3.56	95.00	264.27	0.32	
1,663.00	1.40	262.90	1,662.58	-3.85	8.53	3.90	94.00	261.40	0.13	
1,758.00	1.50	235.90	1,757.55	-4.69	6.35	4.73	95.00	248.93	0.72	
1,853.00	1.70	232.90	1,852.51	-6.24	4.19	6.26	95.00	234.31	0.23	
1,949.00	1.80	217.00	1,948.47	-8.30	2.15	8.32	96.00	224.72	0.51	
2,045.00	1.50	231.40	2,044.43	-10.29	0.26	10.29	96.00	223.54	0.53	
2,141.00	1.50	231.90	2,140.39	-11.85	-1.71	11.84	96.00	231.65	0.01	
2,236.00	1.40	231.80	2,235.36	-13.33	-3.60	13.31	95.00	231.85	0.11	
2,331.00	1.30	223.90	2,330.34	-14.83	-5.26	14.80	95.00	228.00	0.22	
2,425.00	1.40	226.00	2,424.31	-16.39	-6.82	16.35	94.00	224.99	0.12	
2,519.00	1.10	232.40	2,518.29	-17.74	-8.37	17.69	94.00	228.82	0.35	
2,615.00	0.40	168.50	2,614.28	-18.63	-9.03	18.58	96.00	216.68	1.03	



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
2,710.00	0.70	143.30	2,709.28	-19.42	-8.62	19.37	95.00	152.41	0.40
2,802.00	1.60	124.70	2,801.26	-20.61	-7.22	20.56	92.00	130.33	1.05
2,896.00	2.50	103.40	2,895.20	-21.83	-4.15	21.80	94.00	111.69	1.24
2,991.00	2.10	76.70	2,990.12	-21.91	-0.44	21.90	95.00	91.23	1.19
3,087.00	2.60	79.50	3,086.04	-21.11	3.41	21.13	96.00	78.25	0.53
3,180.00	3.50	94.00	3,178.91	-20.92	8.32	20.97	93.00	87.82	1.27
3,276.00	2.80	96.00	3,274.77	-21.37	13.57	21.45	96.00	94.89	0.74
3,371.00	1.30	119.80	3,369.70	-22.15	16.82	22.25	95.00	103.49	1.78
3,402.00	1.00	128.40	3,400.70	-22.49	17.33	22.60	31.00	123.54	1.11
3,426.00	0.70	133.60	3,424.69	-22.72	17.60	22.83	24.00	130.54	1.29
3,529.00	0.90	114.30	3,527.69	-23.49	18.80	23.60	103.00	122.73	0.32
3,625.00	1.00	138.20	3,623.67	-24.42	20.04	24.54	96.00	126.89	0.42
3,722.00	1.20	136.20	3,720.65	-25.79	21.31	25.92	97.00	137.11	0.21
3,816.00	1.30	128.10	3,814.63	-27.16	22.83	27.29	94.00	131.99	0.22
3,911.00	-1.00	127.20	3,909.61	-28.32	24.34	28.47	95.00	127.71	0.32
4,006.00	1.50	118.10	4,004.59	-29.41	26.10	29.57	95.00	121.74	0.56
4,101.00	1.30	121.50	4,099.56	-30.56	28.11	30.73	95.00	119.68	0.23
4,186.00	1.50	127.40	4,184.54	-31.74	29.82	31.92	85.00	124.66	0.29
4,280.00	1.10	124.60	4,278.51	-33.00	31.54	33.19	94.00	126.22	0.43
4,375.00	1.10	119.00	4,373.49	-33.96	33.09	34.16	95.00	121.80	0.11
4,469.00	1.00	136.00	4,467.48	-34.98	34.44	35.19	94.00	127.09	0.35
4,563.00	1.30	125.50	4,561.46	-36.19	35.88	36.41	94.00	130.06	0.39
4,658.00	2.70	114.00	4,656.40	-37.73	38.80	37.97	95.00	117.73	1.53
4,753.00	2.90	118.00	4,751.29	-39.77	42.97	40.03	95.00	116.07	0.29
4,847.00	2.90	112.00	4,845.17	-41.77	47.27	42.06	94.00	115.00	0.32
4,941.00	2.40	118.20	4,939.07	-43.60	51.21	43.91	94.00	114.81	0.61
5,036.00	2.40	121.00	5,033.98	-45.56	54.67	45.89	95.00	119.60	0.12



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18.BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
5,131.00	2.10	116.70	5,128.91	-47.37	57.93	47.72	95.00	118.99	0.36	
5,225.00	2.00	125.50	5,222.85	-49.09	60.81	49.46	94.00	120.99	0.35	
5,320.00	1.80	128.50	5,317.80	-50.98	63.32	51.37	95.00	126.92	0.24	
5,414.00	1.70	133.90	5,411.75	-52.87	65.48	53.27	94.00	131.12	0.21	
5,510.00	1.80	140.90	5,507.71	-55.03	67.46	55.44	96.00	137.50	0.25	
5,604.00	3.40	138.20	5,601.61	-58.25	70.25	58.68	94.00	139.13	1.71	
5,699.00	3.70	137.30	5,696.43	-62.60	74.20	63.06	95.00	137.73	0.32	
5,795.00	3.30	137.20	5,792.25	-66.91	78.18	67.38	96.00	137.25	0.42	
5,891.00	3.00	134.80	5,888.10	-70.71	81.84	71.20	96.00	136.06	0.34	
5,986.00	3.10	137.80	5,982.97	-74.36	85.33	74.88	95.00	136.32	0.20	
6,080.00	2.60	141.90	6,076.85	-77.92	88.36	78.46	94.00	139.67	0.57	
6,175.00	2.50	139.70	6,171.76	-81.20	91.02	81.75	95.00	140.82	0.15	
6,271.00	2.20	146.10	6,267.68	-84.32	93.41	84.89	96.00	142.70	0.41	
6,365.00	1.90	138.40	6,361.62	-86.99	95.45	87.57	94.00	142.53	0.43	
6,458.00	2.30	137.30	6,454.55	-89.51	97.74	90.11	93.00	137.80	0.43	
6,553.00	2.10	138.60	6,549.48	-92.22	100.18	92.83	95.00	137.92	0.22	
6,648.00	2.20	138.90	6,644.42	-94.90	102.53	95.52	95.00	138.75	0.11	
6,742.00	2.50	143.90	6,738.34	-97.91	104.92	98.55	94.00	141.56	0.39	
6,835.00	1.40	152.70	6,831.28	-100.56	106.64	101.21	93.00	147.06	1.22	
6,932.00	1.40	144.00	6,928.25	-102.57	107.88	103.23	97.00	148.35	0.22	
7,028.00	1.20	143.70	7,024.23	-104.33	109.16	105.00	96.00	143.86	0.21	
7,122.00	1.30	148.80	7,118.21	-106.04	110.30	106.71	94.00	146.35	0.16	
7,218.00	1.10	156.70	7,214.19	-107.81	111.23	108.49	96.00	152.42	0.27	
7,312.00	1.30	151.30	7,308.16	-109.58	112.10	110.26	94.00	153.77	0.24	
7,408.00	1.50	151.60	7,404.14	-111.64	113.22	112.33	96.00	151.46	0.21	
7,502.00	1.10	147.60	7,498.11	-113.48	114.29	114.18	94.00	149.91	0.44	
7,597.00	1.00	176.50	7,593.10	-115.08	114.83	115.78	95.00	161.35	0.56	



Wellbenders
End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
7,691.00	0.10	290.50	7,687.09	-115.87	114.80	116.57	94.00	181.94	1.11	
7,786.00	0.30	121.60	7,782.09	-115.97	114.93	116.67	95.00	127.05	0.42	
7,880.00	1.40	105.00	7,876.08	-116.40	116.25	117.11	94.00	107.91	1.19	
7,980.00	2.10	105.90	7,976.03	-117.22	119.19	117.94	100.00	105.54	0.70	
8,070.00	1.90	91.90	8,065.98	-117.72	122.27	118.46	90.00	99.25	0.58	
8,164.00	2.20	143.80	8,159.93	-119.22	124.89	119.99	94.00	119.89	1.93	
8,259.00	2.00	143.00	8,254.86	-122.02	126.97	122.79	95.00	143.42	0.21	
8,353.00	1.90	151.70	8,348.81	-124.70	128.70	125.49	94.00	147.24	0.33	
8,447.00	1.50	156.10	8,442.77	-127.20	129.93	127.99	94.00	153.64	0.45	
8,542.00	1.50	155.30	8,537.73	-129.47	130.96	130.26	95.00	155.70	0.02	
8,637.00	0.90	177.30	8,632.71	-131.34	131.51	132.14	95.00	163.52	0.79	
8,732.00	1.30	210.60	8,727.70	-133.01	131.00	133.81	95.00	197.06	0.78	
8,826.00	1.40	196.70	8,821.67	-135.03	130.12	135.82	94.00	203.39	0.36	
8,919.00	1.50	211.10	8,914.64	-137.16	129.17	137.95	93.00	204.15	0.41	
9,020.00	1.30	226.50	9,015.61	-139.08	127.66	139.86	101.00	218.25	0.42	
9,108.00	1.60	206.40	9,103.58	-140.87	126.38	141.64	88.00	215.40	0.67	
9,204.00	1.60	290.90	9,199.56	-141.59	124.54	142.35	96.00	248.65	2.24	
9,306.00	1.40	289.00	9,301.52	-140.68	122.03	141.42	102.00	290.01	0.20	
9,396.00	1.10	295.90	9,391.50	-139.94	120.21	140.67	90.00	292.04	0.37	
9,491.00	0.50	203.80	9,486.49	-139.92	119.22	140.65	95.00	271.11	1.29	
9,586.00	1.10	223.00	9,581.48	-140.97	118.43	141.69	95.00	217.03	0.68	
9,680.00	1.80	200.90	9,675.45	-143.01	117.29	143.72	94.00	209.25	0.94	
9,775.00	1.50	198.00	9,770.41	-145.59	116.38	146.29	95.00	199.58	0.33	
9,905.00	2.70	199.70	9,900.32	-150.09	114.82	150.79	130.00	199.09	0.92	
10,000.00	6.30	183.00	9,995.02	-157.40	113.79	158.09	95.00	188.00	3.99	
10,064.00	9.70	179.80	10,058.39	-166.30	113.63	166.99	64.00	181.06	5.36	
10,096.00	11.90	175.90	10,089.82	-172.29	113.87	172.98	32.00	177.65	7.24	



Wellbenders
End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
10,127.00	14.90	176.40	10,119.97	-179.46	114.35	180.15	31.00	176.18	9.68
10,158.00	17.60	177.70	10,149.73	-188.12	114.79	188.82	31.00	177.10	8.79
10,190.00	20.20	175.70	10,180.00	-198.46	115.40	199.17	32.00	176.63	8.37
10,237.00	23.70	172.30	10,223.59	-215.92	117.27	216.64	47.00	173.87	7.92
10,284.00	28.20	173.40	10,265.84	-236.33	119.81	237.05	47.00	172.89	9.63
10,331.00	33.10	175.30	10,306.26	-260.16	122.14	260.90	47.00	174.42	10.63
10,378.00	37.80	176.10	10,344.54	-287.34	124.18	288.09	47.00	175.72	10.05
10,425.00	42.10	176.70	10,380.56	-317.45	126.06	318.21	47.00	176.41	9.19
10,472.00	46.30	177.20	10,414.25	-350.16	127.80	350.94	47.00	176.96	8.97
10,519.00	49.90	177.90	10,445.63	-385.11	129.29	385.89	47.00	177.56	7.74
10,566.00	53.10	178.50	10,474.89	-421.87	130.44	422.66	47.00	178.21	6.88
10,613.00	56.20	178.70	10,502.08	-460.19	131.38	460.98	47.00	178.60	6.60
10,660.00	59.60	178.20	10,527.05	-499.98	132.46	500.78	47.00	178.45	7.29
10,707.00	61.90	178.50	10,550.01	-540.97	133.64	541.77	47.00	178.35	4.93
10,754.00	65.30	179.40	10,570.91	-583.05	134.40	583.86	47.00	178.96	7.43
10,802.00	67.00	180.20	10,590.32	-626.95	134.55	627.76	48.00	179.80	3.86
10,849.00	69.30	179.20	10,607.81	-670.57	134.79	671.38	47.00	179.70	5.28
10,896.00	72.60	178.90	10,623.15	-714.98	135.52	715.80	47.00	179.05	7.05
10,944.00	77.19	178.70	10,635.65	-761.30	136.49	762.12	48.00	178.80	9.57
10,991.00	80.70	179.80	10,644.66	-807.42	137.10	808.24	47.00	179.25	7.81
11,020.00	83.30	180.40	10,648.70	-836.13	137.04	836.96	29.00	180.10	9.20
11,131.00	87.74	182.62	10,657.37	-946.72	134.12	947.52	111.00	181.51	4.47
11,226.00	86.86	179.63	10,661.84	-1,041.59	132.26	1,042.38	95.00	181.13	3.28
11,320.00	89.49	178.14	10,664.84	-1,135.51	134.09	1,136.31	94.00	178.88	3.22
11,414.00	89.63	178.49	10,665.56	-1,229.47	136.85	1,230.28	94.00	178.32	0.40
11,508.00	91.43	177.17	10,664.69	-1,323.39	140.41	1,324.22	94.00	177.83	2.37
11,603.00	92.00	177.96	10,661.85	-1,418.26	144.45	1,419.12	95.00	177.56	1.03



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
11,697.00	91.91	177.96	10,658.64	-1,512.15	147.79	1,513.02	94.00	177.96	0.10
11,791.00	91.03	177.96	10,656.23	-1,606.05	151.13	1,606.95	94.00	177.96	0.94
11,885.00	90.99	176.99	10,654.57	-1,699.95	155.27	1,700.86	94.00	177.47	1.03
11,980.00	90.33	176.91	10,653.48	-1,794.81	160.33	1,795.75	95.00	176.95	0.70
12,074.00	92.48	179.28	10,651.17	-1,888.71	163.45	1,889.68	94.00	178.09	3.40
12,169.00	91.60	179.02	10,647.79	-1,983.64	164.86	1,984.61	95.00	179.15	0.97
12,263.00	90.37	178.58	10,646.17	-2,077.61	166.83	2,078.59	94.00	178.80	1.39
12,357.00	89.45	178.22	10,646.32	-2,171.57	169.45	2,172.56	94.00	178.40	1.05
12,451.00	90.55	178.93	10,646.32	-2,265.54	171.79	2,266.54	94.00	178.57	1.39
12,545.00	90.29	179.02	10,645.63	-2,359.52	173.47	2,360.53	94.00	178.98	0.29
12,639.00	89.14	178.31	10,646.10	-2,453.49	175.66	2,454.52	94.00	178.67	1.44
12,733.00	92.13	177.96	10,645.06	-2,547.42	178.72	2,548.47	94.00	178.14	3.20
12,827.00	92.40	177.70	10,641.34	-2,641.28	182.28	2,642.35	94.00	177.83	0.40
12,921.00	90.73	177.26	10,638.78	-2,735.15	186.41	2,736.24	94.00	177.48	1.84
13,015.00	92.53	178.75	10,636.10	-2,829.05	189.68	2,830.16	94.00	178.00	2.49
13,109.00	93.36	181.56	10,631.27	-2,922.92	189.43	2,924.02	94.00	180.15	3.11
13,203.00	92.13	181.74	10,626.77	-3,016.77	186.73	3,017.85	94.00	181.65	1.32
13,296.00	90.90	183.06	10,624.31	-3,109.65	182.83	3,110.71	93.00	182.40	1.94
13,390.00	91.56	183.85	10,622.29	-3,203.46	177.17	3,204.48	94.00	183.45	1.09
13,485.00	88.70	184.38	10,622.08	-3,298.20	170.35	3,299.18	95.00	184.12	3.06
13,579.00	88.57	184.73	10,624.32	-3,391.88	162.89	3,392.81	94.00	184.55	0.40
13,673.00	85.36	180.95	10,629.30	-3,485.60	158.24	3,486.50	94.00	182.84	5.27
13,767.00	87.91	180.77	10,634.81	-3,579.42	156.83	3,580.31	94.00	180.86	2.72
13,861.00	86.15	179.63	10,639.68	-3,673.29	156.50	3,674.18	94.00	180.20	2.23
13,955.00	87.03	178.14	10,645.28	-3,767.10	158.33	3,768.00	94.00	178.88	1.84
14,049.00	86.59	177.79	10,650.51	-3,860.90	161.66	3,861.81	94.00	177.97	0.60
14,143.00	88.13	178.58	10,654.84	-3,954.74	164.63	3,955.68	94.00	178.19	1.84



Wellbenders End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
14,238.00	88.70	178.49	10,657.46	-4,049.68	167.06	4,050.62	95.00	178.53	0.61	
14,331.00	90.11	178.93	10,658.43	-4,142.65	169.15	4,143.60	93.00	178.71	1.59	
14,425.00	91.12	179.19	10,657.42	-4,236.63	170.69	4,237.59	94.00	179.06	1.11	
14,519.00	90.33	178.93	10,656.23	-4,330.61	172.24	4,331.58	94.00	179.06	0.88	
14,613.00	87.43	178.75	10,658.07	-4,424.56	174.14	4,425.54	94.00	178.84	3.09	
14,706.00	86.73	178.58	10,662.81	-4,517.41	176.30	4,518.40	93.00	178.67	0.77	
14,800.00	86.99	176.99	10,667.95	-4,611.20	179.93	4,612.21	94.00	177.78	1.71	
14,894.00	91.69	176.99	10,669.04	-4,705.04	184.86	4,706.08	94.00	176.99	5.00	
14,988.00	90.90	176.03	10,666.91	-4,798.84	190.59	4,799.91	94.00	176.51	1.32	
15,083.00	90.55	176.99	10,665.71	-4,893.65	196.37	4,894.76	95.00	176.51	1.08	
15,177.00	89.45	179.89	10,665.71	-4,987.60	198.93	4,988.73	94.00	178.44	3.30	
15,271.00	88.44	179.37	10,667.44	-5,081.58	199.53	5,082.71	94.00	179.63	1.21	
15,366.00	86.55	177.79	10,671.59	-5,176.46	201.88	5,177.59	95.00	178.58	2.59	
15,460.00	91.03	179.54	10,673.58	-5,270.38	204.07	5,271.53	94.00	178.67	5.12	
15,554.00	92.84	180.60	10,670.40	-5,364.32	203.96	5,365.47	94.00	180.07	2.23	
15,648.00	91.74	180.16	10,666.65	-5,458.25	203.33	5,459.39	94.00	180.38	1.26	
15,741.00	91.16	179.98	10,664.30	-5,551.21	203.22	5,552.35	93.00	180.07	0.65	
15,836.00	89.36	179.28	10,663.86	-5,646.21	203.83	5,647.35	95.00	179.63	2.03	
15,930.00	90.68	179.89	10,663.83	-5,740.20	204.52	5,741.34	94.00	179.58	1.55	
16,024.00	90.64	179.54	10,662.75	-5,834.19	204.98	5,835.34	94.00	179.71	0.37	
16,119.00	91.38	180.42	10,661.07	-5,929.18	205.02	5,930.32	95.00	179.98	1.21	
16,213.00	90.33	179.98	10,659.67	-6,023.17	204.69	6,024.30	94.00	180.20	1.21	
16,307.00	91.25	180.33	10,658.38	-6,117.16	204.43	6,118.29	94.00	180.15	1.05	
16,401.00	91.96	180.42	10,655.74	-6,211.12	203.82	6,212.25	94.00	180.37	0.76	
16,494.00	91.12	179.89	10,653.24	-6,304.08	203.57	6,305.21	93.00	180.15	1.07	
16,588.00	87.69	179.02	10,654.22	-6,398.06	204.46	6,399.19	94.00	179.46	3.76	
16,682.00	90.55	179.81	10,655.66	-6,492.03	205.42	6,493.16	94.00	179.42	3.16	



Wellbenders
End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
16,776.00	91.12	179.46	10,654.29	-6,586.02	206.02	6,587.15	94.00	179.64	0.71
16,870.00	90.42	179.28	10,653.03	-6,680.00	207.05	6,681.14	94.00	179.37	0.77
16,964.00	89.63	179.19	10,652.99	-6,773.99	208.31	6,775.14	94.00	179.23	0.85
17,058.00	87.82	178.75	10,655.08	-6,867.95	210.00	6,869.11	94.00	178.97	1.98
17,153.00	87.25	178.75	10,659.17	-6,962.84	212.07	6,964.01	95.00	178.75	0.60
17,247.00	89.89	179.54	10,661.51	-7,056.79	213.47	7,057.96	94.00	179.15	2.93
17,342.00	89.98	179.54	10,661.62	-7,151.79	214.23	7,152.96	95.00	179.54	0.09
17,436.00	92.04	180.95	10,659.96	-7,245.77	213.83	7,246.94	94.00	180.24	2.66
17,530.00	91.56	180.60	10,657.01	-7,339.71	212.56	7,340.87	94.00	180.77	0.63
17,620.00	90.24	179.89	10,655.60	-7,429.70	212.18	7,430.85	90.00	180.24	1.67
17,714.00	91.03	180.77	10,654.55	-7,523.69	211.63	7,524.84	94.00	180.33	1.26
17,808.00	91.65	180.42	10,652.36	-7,617.66	210.66	7,618.80	94.00	180.60	0.76
17,902.00	90.02	179.81	10,650.99	-7,711.64	210.47	7,712.78	94.00	180.11	1.85
17,996.00	92.62	181.48	10,648.82	-7,805.60	209.41	7,806.73	94.00	180.64	3.29
18,089.00	91.30	180.60	10,645.64	-7,898.53	207.73	7,899.65	93.00	181.04	1.71
18,184.00	91.38	180.51	10,643.42	-7,993.50	206.81	7,994.61	95.00	180.56	0.13
18,263.00	90.15	179.72	10,642.36	-8,072.49	206.65	8,073.60	79.00	180.11	1.85
18,319.00	90.15	179.72	10,642.22	-8,128.49	206.92	8,129.60	56.00	179.72	0.00
Final Station Closure Distance= 8131.12 /Direction= 178.54 - Projection to Bit: 18319.00' MD/ 10642.22' TVD - TD: Latitude = 32.108625 / Longitude = -103.924139 - TD: Y= 403481.21 / X= 626698.72									



Wellbenders
End Of Well Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well #103H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	RKB = 23' @ 3191.00usft (Frontier 17)
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,319.00	10,642.22	-8,128.49	206.92	Final Station Closure Distance= 8131.12 /Direction= 178.54
18,319.00	10,642.22	-8,128.49	206.92	Projection to Bit: 18319.00' MD/ 10642.22' TVD
18,319.00	10,642.22	-8,128.49	206.92	TD: Latitude = 32.108625 / Longitude = -103.924139
18,319.00	10,642.22	-8,128.49	206.92	TD: Y= 403481.21 / X= 626698.72

Checked By: _____	Approved By: _____	Date: _____
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