

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
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

SEP 12 2019
RECEIVED
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

¹ API Number 30-015-44894	² Pool Code 92880	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 325593	⁵ Property Name POKER LAKE UNIT 18 BD	⁶ Well Number 122H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	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	1,275	WEST	EDDY

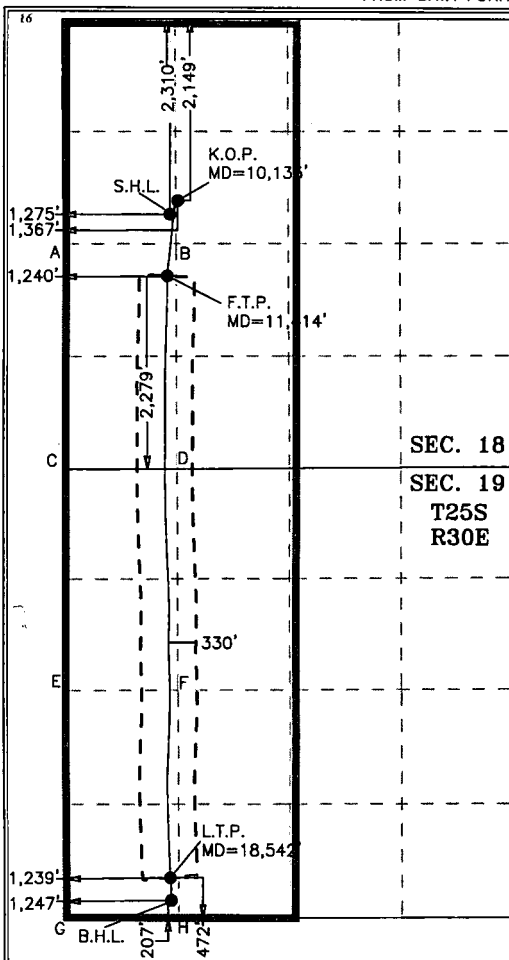
¹¹ Bottom Hole Location If Different From Surface

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		207	SOUTH	1,247	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 83 NME
SURFACE LOCATION
Y= 411,668.2
X= 667,646.3
LAT.= 32.131097°N
LONG.= 103.925290°W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 411,609.9
X= 626,461.7
LAT.= 32.130973°N
LONG.= 103.924805°W

K.O.P.
NAD 83 NME
Y= 411,829.5
X= 667,737.6
LAT.= 32.131540°N
LONG.= 103.924993°W

K.O.P.
NAD 27 NME
Y= 411,771.2
X= 626,553.0
LAT.= 32.131200°N
LONG.= 103.791946°W

FIRST TAKE POINT
NAD 83 NME
Y= 410,937.8
X= 667,615.3
LAT.= 32.129090°N
LONG.= 103.925399°W

FIRST TAKE POINT
NAD 27 NME
Y= 410,879.5
X= 626,430.6
LAT.= 32.128751°N
LONG.= 103.792356°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= 408,935.1 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= 403,343.1 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= 403,814.6
X= 667,659.0
LAT.= 32.109508°N
LONG.= 103.925345°W

LAST TAKE POINT
NAD 27 NME
Y= 403,756.5
X= 626,474.1
LAT.= 32.109384°N
LONG.= 103.924861°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 403,812.6
X= 667,659.1
LAT.= 32.109503°N
LONG.= 103.925344°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 403,492.0
X= 626,484.0
LAT.= 32.108657°N
LONG.= 103.924832°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.

Signature: Cheryl Rowell Date: 9/6/19

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.

9-6-2019

Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number

RR/JC

2017050633



NM OIL CONSERVATION

ARTESIA DISTRICT

Intent ☐ As Drilled ☒

SEP 12 2019

API #
30-015-44894

RECEIVED

Operator Name:	Property Name:	Well Number
XTO Permian Operating, LLC	Poker Lake Unit 18 BD	122H

Kick Off Point (KOP)

UL F	Section 18	Township 25S	Range 30E	Lot	Feet 2149	From N/S North	Feet 1367	From E/W West	County Eddy
Latitude 32.131540					Longitude 103.924993			NAD 83	

First Take Point (FTP)

UL L	Section 18	Township 25S	Range 30E	Lot	Feet 2279	From N/S South	Feet 1240	From E/W West	County Eddy
Latitude 32.129090					Longitude 103.925399			NAD 83	

Last Take Point (LTP)

UL N	Section 19	Township 25S	Range 30E	Lot	Feet 472	From N/S South	Feet 1239	From E/W West	County Eddy
Latitude 32.109508					Longitude 103.925345			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 #
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 12 2019

RECEIVED

XTO Energy

Eddy County, New Mexico (NAD 27)

Poker Lake Unit 18 BD

Poker Lake Unit 18 BD 122H

Wellbore #1

Design: Surveys

Standard Survey Report

29 October, 2018





MS Directional
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well Poker Lake Unit 18 BD 122H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	Well @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Project	Eddy County, New Mexico (NAD 27)		
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		

Well	Poker Lake Unit 18 BD 122H					
Well Position	+N/-S	0.00 usft	Northing:	411,609.60 usft	Latitude:	32° 7' 51.500 N
	+E/-W	0.00 usft	Easting:	626,461.90 usft	Longitude:	103° 55' 29.296 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,168.00 usft
Grid Convergence:	0.217 °					

Wellbore	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2018	10/13/2018	7.045	59.845	47,752.65

Design	Surveys
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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	10/29/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
116.00	9,451.00	Wellbenders MWD (Wellbore #1)	MWD	OWSG MWD - Standard	
9,561.00	18,807.00	MS MWD (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)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	116.00	0.40	331.60	116.00	0.36	-0.19	-0.36	0.34	0.34	0.00
	241.00	0.40	331.10	241.00	1.12	-0.61	-1.13	0.00	0.00	-0.40
	334.00	0.70	353.80	333.99	1.97	-0.83	-1.98	0.39	0.32	24.41
	426.00	0.50	28.50	425.99	2.88	-0.70	-2.89	0.44	-0.22	37.72
	529.00	0.50	34.40	528.98	3.65	-0.23	-3.65	0.05	0.00	5.73
	625.00	0.70	11.80	624.98	4.57	0.13	-4.57	0.32	0.21	-23.54
	720.00	0.60	9.20	719.97	5.63	0.32	-5.62	0.11	-0.11	-2.74
	1,004.00	2.10	44.60	1,003.89	10.80	4.22	-10.77	0.58	0.53	12.46
	1,292.00	1.90	52.60	1,291.71	17.46	11.71	-17.39	0.12	-0.07	2.78
	1,386.00	2.00	45.00	1,385.66	19.56	14.11	-19.48	0.29	0.11	-8.09
	1,576.00	1.80	42.60	1,575.55	24.10	18.48	-23.99	0.11	-0.11	-1.26
	1,672.00	2.40	49.40	1,671.49	26.52	21.02	-26.39	0.68	0.63	7.08
	1,767.00	2.70	44.40	1,766.40	29.42	24.10	-29.27	0.39	0.32	-5.26
	1,863.00	3.00	39.90	1,862.28	32.96	27.29	-32.79	0.39	0.31	-4.69



MS Directional
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well Poker Lake Unit 18 BD 122H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	Well @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe 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)
1,958.00	3.10	37.78	1,957.14	36.90	30.46	-36.71	0.16	0.11	-2.23
2,053.00	3.10	36.90	2,052.00	40.98	33.58	-40.77	0.05	0.00	-0.93
2,148.00	3.10	36.50	2,146.86	45.10	36.65	-44.87	0.02	0.00	-0.42
2,244.00	3.10	35.70	2,242.72	49.29	39.71	-49.05	0.05	0.00	-0.83
2,340.00	3.10	35.00	2,338.58	53.53	42.71	-53.27	0.04	0.00	-0.73
2,435.00	3.10	36.50	2,433.44	57.70	45.71	-57.42	0.09	0.00	1.58
2,530.00	3.10	30.40	2,528.31	61.98	48.54	-61.68	0.35	0.00	-6.42
2,626.00	3.10	29.30	2,624.17	66.48	51.12	-66.17	0.06	0.00	-1.15
2,721.00	3.20	27.50	2,719.02	71.07	53.60	-70.74	0.15	0.11	-1.89
2,817.00	2.70	34.70	2,814.89	75.31	56.13	-74.96	0.65	-0.52	7.50
2,912.00	2.90	39.10	2,909.78	79.01	58.92	-78.65	0.31	0.21	4.63
3,006.00	3.00	39.10	3,003.66	82.77	61.97	-82.39	0.11	0.11	0.00
3,102.00	2.90	39.10	3,099.53	86.60	65.08	-86.20	0.10	-0.10	0.00
3,197.00	3.00	55.60	3,194.40	89.87	68.65	-89.45	0.90	0.11	17.37
3,292.00	3.10	64.00	3,289.27	92.40	73.01	-91.95	0.48	0.11	8.84
3,385.00	3.20	65.10	3,382.13	94.60	77.63	-94.12	0.13	0.11	1.18
3,479.00	3.20	62.40	3,475.98	96.92	82.33	-96.41	0.16	0.00	-2.87
3,574.00	3.20	62.40	3,570.84	99.37	87.03	-98.84	0.00	0.00	0.00
3,669.00	3.30	59.30	3,665.68	102.00	91.73	-101.44	0.21	0.11	-3.26
3,762.00	3.50	59.70	3,758.52	104.80	96.48	-104.21	0.22	0.22	0.43
3,856.00	3.70	61.60	3,852.33	107.69	101.63	-107.06	0.25	0.21	2.02
3,951.00	3.80	60.90	3,947.13	110.68	107.08	-110.02	0.12	0.11	-0.74
4,045.00	3.90	60.40	4,040.92	113.77	112.58	-113.08	0.11	0.11	-0.53
4,139.00	3.90	59.70	4,134.70	116.96	118.12	-116.24	0.05	0.00	-0.74
4,234.00	3.10	59.80	4,229.52	119.88	123.13	-119.13	0.84	-0.84	0.11
4,330.00	1.90	57.30	4,325.43	122.05	126.71	-121.27	1.25	-1.25	-2.60
4,425.00	0.70	65.80	4,420.40	123.14	128.56	-122.35	1.28	-1.26	8.95
4,530.00	0.70	74.20	4,525.40	123.58	129.77	-122.78	0.10	0.00	8.00
4,615.00	8.00	68.20	4,610.09	125.92	135.77	-125.08	8.59	8.59	-7.06
4,711.00	0.80	58.20	4,705.75	128.75	142.55	-127.88	7.51	-7.50	-10.42
4,806.00	0.90	66.80	4,800.74	129.40	143.80	-128.52	0.17	0.11	9.05
4,900.00	0.90	62.80	4,894.73	130.03	145.13	-129.14	0.07	0.00	-4.26
4,995.00	0.80	65.60	4,989.72	130.64	146.40	-129.74	0.11	-0.11	2.95
5,090.00	0.90	62.40	5,084.71	131.26	147.66	-130.36	0.12	0.11	-3.37
5,184.00	0.90	54.80	5,178.69	132.03	148.92	-131.12	0.13	0.00	-8.09
5,278.00	1.00	60.90	5,272.68	132.85	150.24	-131.93	0.15	0.11	6.49
5,373.00	1.00	61.40	5,367.67	133.65	151.69	-132.72	0.01	0.00	0.53
5,469.00	1.00	66.10	5,463.65	134.39	153.20	-133.45	0.09	0.00	4.90
5,563.00	0.90	66.70	5,557.64	135.02	154.62	-134.07	0.11	-0.11	0.64
5,658.00	0.80	67.20	5,652.63	135.57	155.92	-134.61	0.11	-0.11	0.53
5,753.00	0.80	57.60	5,747.62	136.18	157.09	-135.22	0.14	0.00	-10.11
5,848.00	0.90	71.80	5,842.61	136.77	158.36	-135.80	0.24	0.11	14.95
5,945.00	1.00	85.80	5,939.60	137.07	159.93	-136.09	0.26	0.10	14.43



MS Directional
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well Poker Lake Unit 18 BD 122H
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Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe 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)	
6,039.00	0.60	39.90	6,033.59	137.51	161.06	-136.52	0.77	-0.43	-48.83	
6,135.00	0.40	28.90	6,129.58	138.19	161.55	-137.20	0.23	-0.21	-11.46	
6,230.00	0.50	17.50	6,224.58	138.87	161.83	-137.88	0.14	0.11	-12.00	
6,326.00	0.50	12.50	6,320.58	139.68	162.05	-138.69	0.05	0.00	-5.21	
6,421.00	0.50	358.00	6,415.57	140.50	162.12	-139.51	0.13	0.00	-15.26	
6,516.00	0.40	347.50	6,510.57	141.24	162.04	-140.25	0.14	-0.11	-11.05	
6,611.00	0.50	342.10	6,605.57	141.96	161.84	-140.96	0.11	0.11	-5.68	
6,706.00	0.60	345.70	6,700.56	142.83	161.59	-141.84	0.11	0.11	3.79	
6,903.00	0.40	350.00	6,897.56	144.51	161.21	-143.52	0.10	-0.10	2.18	
6,997.00	0.40	354.10	6,991.55	145.16	161.12	-144.17	0.03	0.00	4.36	
7,077.00	0.30	18.30	7,071.55	145.64	161.16	-144.65	0.22	-0.13	30.25	
7,178.00	1.40	349.30	7,172.54	147.10	161.01	-146.11	1.14	1.09	-28.71	
7,270.00	1.40	340.20	7,264.51	149.26	160.42	-148.28	0.24	0.00	-9.89	
7,460.00	1.50	302.80	7,454.46	152.79	157.55	-151.83	0.49	0.05	-19.68	
7,650.00	2.20	248.70	7,644.37	152.81	152.06	-151.88	0.94	0.37	-28.47	
7,746.00	2.20	249.90	7,740.30	151.51	148.61	-150.60	0.05	0.00	1.25	
7,839.00	2.10	262.10	7,833.23	150.66	145.25	-149.77	0.50	-0.11	13.12	
7,934.00	2.40	250.70	7,928.16	149.77	141.65	-148.90	0.57	0.32	-12.00	
8,124.00	1.70	247.30	8,118.04	147.36	135.29	-146.54	0.37	-0.37	-1.79	
8,218.00	1.10	291.80	8,212.01	147.16	133.17	-146.35	1.27	-0.64	47.34	
8,311.00	1.20	304.60	8,304.99	148.05	131.54	-147.24	0.30	0.11	13.76	
8,407.00	1.70	327.80	8,400.96	149.82	129.95	-149.03	0.79	0.52	24.17	
8,501.00	1.30	325.30	8,494.93	151.88	128.60	-151.09	0.43	-0.43	-2.66	
8,596.00	1.30	319.80	8,589.91	153.59	127.29	-152.81	0.13	0.00	-5.79	
8,692.00	1.20	309.10	8,685.88	155.05	125.81	-154.28	0.26	-0.10	-11.15	
8,787.00	0.60	298.80	8,780.87	155.92	124.60	-155.16	0.65	-0.63	-10.84	
8,882.00	0.40	257.80	8,875.87	156.09	123.84	-155.33	0.42	-0.21	-43.16	
8,978.00	1.30	287.70	8,971.86	156.35	122.48	-155.60	1.01	0.94	31.15	
9,072.00	1.40	293.80	9,065.83	157.14	120.41	-156.40	0.19	0.11	6.49	
9,168.00	1.50	281.40	9,161.80	157.86	118.10	-157.13	0.34	0.10	-12.92	
9,261.00	1.90	288.10	9,254.76	158.58	115.45	-157.87	0.48	0.43	7.20	
9,356.00	2.30	293.20	9,349.69	159.82	112.20	-159.13	0.46	0.42	5.37	
9,451.00	2.30	292.50	9,444.62	161.30	108.68	-160.63	0.03	0.00	-0.74	
Tie-In to Wellbenders MWD - 9451.00' MD										
9,561.00	2.40	284.10	9,554.53	162.71	104.41	-162.06	0.33	0.09	-7.64	
9,660.00	0.40	259.10	9,653.49	163.14	102.06	-162.52	2.07	-2.02	-25.25	
9,753.00	0.70	272.70	9,746.49	163.11	101.17	-162.49	0.35	0.32	14.62	
9,847.00	1.00	271.50	9,840.48	163.16	99.78	-162.55	0.32	0.32	-1.28	
9,943.00	1.20	271.70	9,936.46	163.21	97.94	-162.61	0.21	0.21	0.21	
10,038.00	1.50	269.90	10,031.43	163.24	95.70	-162.65	0.32	0.32	-1.89	
10,070.00	1.60	272.10	10,063.42	163.25	94.84	-162.67	0.36	0.31	6.88	
10,102.00	3.20	257.40	10,095.39	163.08	93.52	-162.50	5.32	5.00	-45.94	
10,134.00	5.90	231.20	10,127.29	161.85	91.36	-161.29	10.44	8.44	-81.88	



MS Directional
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well Poker Lake Unit 18 BD 122H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	Well @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe 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)
10,166.00	9.20	217.90	10,159.01	158.80	88.51	-158.26	11.60	10.31	-41.56
10,227.00	11.90	209.90	10,218.98	149.50	82.38	-148.99	5.03	4.43	-13.11
10,276.00	17.00	203.40	10,266.42	138.54	77.01	-138.06	10.91	10.41	-13.27
10,322.00	19.30	207.90	10,310.13	125.64	70.78	-125.21	5.85	5.00	9.78
10,367.00	24.20	201.20	10,351.92	110.46	63.96	-110.07	12.19	10.89	-14.89
10,417.00	31.80	193.60	10,396.05	88.06	57.14	-87.71	16.76	15.20	-15.20
10,462.00	37.20	187.40	10,433.13	63.02	52.60	-62.70	14.30	12.00	-13.78
10,511.00	38.80	186.70	10,471.74	33.08	48.90	-32.78	3.38	3.27	-1.43
10,556.00	39.90	187.80	10,506.54	4.78	45.30	-4.50	2.89	2.44	2.44
10,606.00	41.20	187.30	10,544.53	-27.44	41.03	27.69	2.68	2.60	-1.00
10,645.00	44.50	186.70	10,573.12	-53.77	37.80	54.00	8.53	8.46	-1.54
10,700.00	47.30	187.80	10,611.39	-92.94	32.81	93.14	5.29	5.09	2.00
10,745.00	49.20	187.40	10,641.35	-126.22	28.37	126.39	4.27	4.22	-0.89
10,795.00	53.40	185.50	10,672.61	-164.98	24.01	165.12	8.91	8.40	-3.80
10,840.00	58.30	184.30	10,697.86	-202.07	20.84	202.20	11.11	10.89	-2.67
10,890.00	60.60	182.90	10,723.28	-245.04	18.14	245.15	5.19	4.60	-2.80
10,935.00	62.40	185.20	10,744.75	-284.49	15.34	284.57	6.01	4.00	5.11
10,986.00	62.20	186.90	10,768.46	-329.39	10.58	329.45	2.98	-0.39	3.33
11,032.00	62.60	186.30	10,789.77	-369.88	5.90	369.91	1.45	0.87	-1.30
11,081.00	61.90	185.90	10,812.59	-413.00	1.29	413.00	1.60	-1.43	-0.82
11,126.00	61.90	185.80	10,833.78	-452.49	-2.76	452.46	0.20	0.00	-0.22
11,173.00	68.60	187.20	10,853.45	-494.87	-7.60	494.82	14.51	14.26	2.98
11,218.00	76.40	187.30	10,866.97	-537.41	-13.01	537.32	17.33	17.33	0.22
11,268.00	83.30	186.50	10,875.78	-586.24	-18.92	586.12	13.89	13.80	-1.60
11,364.00	85.70	184.50	10,884.98	-681.35	-28.07	681.17	3.25	2.50	-2.08
11,458.00	89.40	180.20	10,889.00	-775.15	-31.92	774.94	6.03	3.94	-4.57
11,559.00	89.90	180.10	10,889.61	-876.14	-32.18	875.93	0.50	0.50	-0.10
11,654.00	90.20	180.40	10,889.53	-971.14	-32.60	970.93	0.45	0.32	0.32
11,750.00	89.40	181.50	10,889.87	-1,067.13	-34.19	1,066.90	1.42	-0.83	1.15
11,846.00	88.60	181.40	10,891.54	-1,163.08	-36.62	1,162.84	0.84	-0.83	-0.10
11,941.00	89.50	181.60	10,893.12	-1,258.03	-39.10	1,257.77	0.97	0.95	0.21
12,037.00	88.20	181.60	10,895.04	-1,353.98	-41.78	1,353.70	1.35	-1.35	0.00
12,131.00	88.60	181.30	10,897.67	-1,447.91	-44.16	1,447.61	0.53	0.43	-0.32
12,225.00	89.30	181.00	10,899.39	-1,541.87	-46.05	1,541.56	0.81	0.74	-0.32
12,321.00	88.20	181.60	10,901.48	-1,637.82	-48.22	1,637.50	1.31	-1.15	0.63
12,416.00	88.80	181.60	10,903.97	-1,732.75	-50.88	1,732.41	0.63	0.63	0.00
12,509.00	89.50	181.10	10,905.35	-1,825.72	-53.07	1,825.36	0.92	0.75	-0.54
12,603.00	89.80	180.60	10,905.93	-1,919.70	-54.46	1,919.34	0.62	0.32	-0.53
12,699.00	88.40	180.30	10,907.43	-2,015.69	-55.21	2,015.31	1.49	-1.46	-0.31
12,793.00	88.70	179.80	10,909.81	-2,109.66	-55.30	2,109.28	0.62	0.32	-0.53
12,887.00	89.50	179.70	10,911.29	-2,203.64	-54.89	2,203.27	0.86	0.85	-0.11
12,982.00	90.30	179.80	10,911.45	-2,298.64	-54.47	2,298.27	0.85	0.84	0.11
13,078.00	91.10	179.80	10,910.28	-2,394.63	-54.14	2,394.26	0.83	0.83	0.00
13,173.00	90.00	179.40	10,909.37	-2,489.63	-53.47	2,489.25	1.23	-1.16	-0.42



MS Directional
Survey Report



Company:	XTO Energy	Local Co-ordinate Reference:	Well Poker Lake Unit 18 BD 122H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	Well @ 3191.00usft (Frontier 17)
Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe 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)	
13,269.00	91.10	180.10	10,908.45	-2,585.62	-53.05	2,585.25	1.36	1.15	0.73	
13,364.00	91.50	179.90	10,906.29	-2,680.59	-53.05	2,680.22	0.47	0.42	-0.21	
13,459.00	90.20	180.70	10,904.88	-2,775.58	-53.55	2,775.20	1.61	-1.37	0.84	
13,555.00	91.00	180.70	10,903.88	-2,871.57	-54.73	2,871.18	0.83	0.83	0.00	
13,649.00	92.50	181.00	10,901.01	-2,965.51	-56.12	2,965.11	1.63	1.60	0.32	
13,745.00	92.40	180.00	10,896.90	-3,061.42	-56.96	3,061.01	1.05	-0.10	-1.04	
13,839.00	90.70	179.10	10,894.36	-3,155.37	-56.22	3,154.97	2.05	-1.81	-0.96	
13,932.00	91.60	179.00	10,892.49	-3,248.34	-54.68	3,247.95	0.97	0.97	-0.11	
14,027.00	93.10	179.00	10,888.60	-3,343.24	-53.02	3,342.86	1.58	1.58	0.00	
14,121.00	90.20	178.70	10,885.89	-3,437.18	-51.13	3,436.80	3.10	-3.09	-0.32	
14,217.00	91.00	179.10	10,884.89	-3,533.15	-49.29	3,532.79	0.93	0.83	0.42	
14,311.00	89.50	178.30	10,884.48	-3,627.12	-47.16	3,626.77	1.81	-1.60	-0.85	
14,406.00	89.40	177.70	10,885.39	-3,722.06	-43.84	3,721.72	0.64	-0.11	-0.63	
14,500.00	90.30	178.10	10,885.64	-3,816.00	-40.40	3,815.68	1.05	0.96	0.43	
14,594.00	89.00	178.30	10,886.21	-3,909.95	-37.45	3,909.64	1.40	-1.38	0.21	
14,689.00	88.00	177.80	10,888.70	-4,004.86	-34.21	4,004.57	1.18	-1.05	-0.53	
14,784.00	88.30	177.20	10,891.76	-4,099.72	-30.07	4,099.46	0.71	0.32	-0.63	
14,878.00	88.50	177.10	10,894.39	-4,193.56	-25.40	4,193.33	0.24	0.21	-0.11	
14,972.00	89.90	177.10	10,895.70	-4,287.43	-20.65	4,287.23	1.49	1.49	0.00	
15,067.00	91.10	177.20	10,894.87	-4,382.31	-15.92	4,382.13	1.27	1.26	0.11	
15,162.00	89.50	177.20	10,894.37	-4,477.19	-11.28	4,477.04	1.68	-1.68	0.00	
15,257.00	87.80	177.20	10,896.61	-4,572.05	-6.64	4,571.92	1.79	-1.79	0.00	
15,352.00	90.40	178.70	10,898.10	-4,666.96	-3.25	4,666.86	3.16	2.74	1.58	
15,448.00	89.50	179.40	10,898.19	-4,762.95	-1.65	4,762.85	1.19	-0.94	0.73	
15,544.00	88.20	181.40	10,900.11	-4,858.92	-2.32	4,858.82	2.48	-1.35	2.08	
15,638.00	88.40	181.00	10,902.90	-4,952.86	-4.29	4,952.74	0.48	0.21	-0.43	
15,733.00	89.20	181.30	10,904.89	-5,047.82	-6.20	5,047.69	0.90	0.84	0.32	
15,829.00	89.00	180.40	10,906.40	-5,143.79	-7.62	5,143.65	0.96	-0.21	-0.94	
15,924.00	88.00	179.00	10,908.89	-5,238.76	-7.12	5,238.62	1.81	-1.05	-1.47	
16,017.00	88.70	179.00	10,911.57	-5,331.70	-5.50	5,331.57	0.75	0.75	0.00	
16,111.00	88.20	178.20	10,914.11	-5,425.64	-3.21	5,425.52	1.00	-0.53	-0.85	
16,206.00	88.30	177.10	10,917.01	-5,520.51	0.69	5,520.42	1.16	0.11	-1.16	
16,302.00	89.70	178.70	10,918.69	-5,616.43	4.20	5,616.35	2.21	1.46	1.67	
16,396.00	90.00	179.70	10,918.93	-5,710.42	5.52	5,710.35	1.11	0.32	1.06	
16,491.00	90.00	181.40	10,918.93	-5,805.41	4.60	5,805.33	1.79	0.00	1.79	
16,587.00	90.90	181.50	10,918.18	-5,901.38	2.18	5,901.28	0.94	0.94	0.10	
16,681.00	91.50	182.00	10,916.21	-5,995.31	-0.69	5,995.20	0.83	0.64	0.53	
16,775.00	91.80	182.30	10,913.50	-6,089.21	-4.22	6,089.07	0.45	0.32	0.32	
16,869.00	91.80	183.00	10,910.55	-6,183.06	-8.56	6,182.89	0.74	0.00	0.74	
16,964.00	91.60	182.50	10,907.73	-6,277.91	-13.12	6,277.71	0.57	-0.21	-0.53	
17,058.00	92.40	181.60	10,904.45	-6,371.79	-16.48	6,371.57	1.28	0.85	-0.96	
17,153.00	89.70	181.60	10,902.71	-6,466.73	-19.13	6,466.49	2.84	-2.84	0.00	
17,248.00	89.90	181.40	10,903.04	-6,561.69	-21.62	6,561.44	0.30	0.21	-0.21	



MS Directional
Survey Report



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Site:	Poker Lake Unit 18 BD	MD Reference:	Well @ 3191.00usft (Frontier 17)
Well:	Poker Lake Unit 18 BD 122H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe 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)
17,342.00	90.00	181.20	10,903.12	-6,655.67	-23.75	6,655.40	0.24	0.11	-0.21
17,437.00	87.50	180.30	10,905.20	-6,750.63	-24.99	6,750.35	2.80	-2.63	-0.95
17,531.00	87.20	179.40	10,909.54	-6,844.53	-24.75	6,844.25	1.01	-0.32	-0.96
17,626.00	87.70	178.70	10,913.77	-6,939.42	-23.18	6,939.15	0.90	0.53	-0.74
17,720.00	87.90	178.60	10,917.38	-7,033.32	-20.96	7,033.07	0.24	0.21	-0.11
17,815.00	88.90	178.70	10,920.03	-7,128.26	-18.73	7,128.01	1.06	1.05	0.11
17,909.00	89.70	178.70	10,921.18	-7,222.23	-16.59	7,221.99	0.85	0.85	0.00
18,003.00	89.10	177.40	10,922.16	-7,316.17	-13.39	7,315.95	1.52	-0.64	-1.38
18,098.00	88.30	176.50	10,924.32	-7,411.01	-8.34	7,410.82	1.27	-0.84	-0.95
18,192.00	89.20	177.70	10,926.37	-7,504.86	-3.59	7,504.70	1.60	0.96	1.28
18,287.00	90.00	177.80	10,927.03	-7,599.78	0.14	7,599.64	0.85	0.84	0.11
18,381.00	89.90	177.90	10,927.11	-7,693.72	3.67	7,693.60	0.15	-0.11	0.11
18,476.00	89.50	177.80	10,927.61	-7,788.65	7.23	7,788.55	0.43	-0.42	-0.11
18,569.00	89.10	172.10	10,928.75	-7,881.24	15.42	7,881.19	6.14	-0.43	-6.13
18,664.00	90.70	179.70	10,928.91	-7,975.93	22.20	7,975.91	8.18	1.68	8.00
18,758.00	91.20	179.70	10,927.36	-8,069.91	22.69	8,069.90	0.53	0.53	0.00
18,807.00	91.20	179.70	10,926.33	-8,118.90	22.95	8,118.89	0.00	0.00	0.00
Projection to TD-18807.00' MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,451.00	9,444.62	161.30	108.68	Tie-In to Wellbenders MWD - 9451.00' MD
18,807.00	10,926.33	-8,118.90	22.95	Projection to TD-18807.00' MD