

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

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 30-015-45620	² Pool Code 92880	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 325596	⁵ Property Name POKER LAKE UNIT 20 BD	⁶ Well Number 121H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,159'

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
M	20	25 S	30 E		330	SOUTH	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
M	32	25 S	30 E		196	SOUTH	684	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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

¹⁶ GEODETTIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 403,645.4 X= 631,095.3 LAT.= 32.109030"N LONG.= 103.909938"W KICK OFF POINT NAD 27 NME Y= 403,604.6 X= 631,050.3 LAT.= 32.108918"N LONG.= 103.910084"W FIRST TAKE POINT NAD 27 NME Y= 403,022.7 X= 631,244.1 LAT.= 32.107316"N LONG.= 103.909465"W CORNER COORDINATES TABLE NAD 27 NME <table border="1"> <tr><td>A</td><td>Y= 403,309.4</td><td>N</td><td>X= 630,586.8</td><td>E</td></tr> <tr><td>B</td><td>Y= 403,325.1</td><td>N</td><td>X= 631,923.1</td><td>E</td></tr> <tr><td>C</td><td>Y= 400,654.5</td><td>N</td><td>X= 630,604.6</td><td>E</td></tr> <tr><td>D</td><td>Y= 400,669.1</td><td>N</td><td>X= 631,940.0</td><td>E</td></tr> <tr><td>E</td><td>Y= 397,997.0</td><td>N</td><td>X= 630,622.4</td><td>E</td></tr> <tr><td>F</td><td>Y= 398,011.2</td><td>N</td><td>X= 631,958.0</td><td>E</td></tr> <tr><td>G</td><td>Y= 395,341.8</td><td>N</td><td>X= 630,625.3</td><td>E</td></tr> <tr><td>H</td><td>Y= 395,354.2</td><td>N</td><td>X= 631,958.0</td><td>E</td></tr> <tr><td>I</td><td>Y= 392,687.0</td><td>N</td><td>X= 630,628.7</td><td>E</td></tr> <tr><td>J</td><td>Y= 392,697.7</td><td>N</td><td>X= 631,958.4</td><td>E</td></tr> </table> CORNER COORDINATES TABLE NAD 83 NME <table border="1"> <tr><td>A</td><td>Y= 403,367.5</td><td>N</td><td>X= 671,771.7</td><td>E</td></tr> <tr><td>B</td><td>Y= 403,383.2</td><td>N</td><td>X= 673,108.1</td><td>E</td></tr> <tr><td>C</td><td>Y= 400,712.5</td><td>N</td><td>X= 671,789.6</td><td>E</td></tr> <tr><td>D</td><td>Y= 400,727.1</td><td>N</td><td>X= 673,125.0</td><td>E</td></tr> <tr><td>E</td><td>Y= 398,055.0</td><td>N</td><td>X= 671,807.5</td><td>E</td></tr> <tr><td>F</td><td>Y= 398,069.2</td><td>N</td><td>X= 673,143.1</td><td>E</td></tr> <tr><td>G</td><td>Y= 395,399.7</td><td>N</td><td>X= 671,810.5</td><td>E</td></tr> <tr><td>H</td><td>Y= 395,412.1</td><td>N</td><td>X= 673,143.2</td><td>E</td></tr> <tr><td>I</td><td>Y= 392,744.9</td><td>N</td><td>X= 671,814.0</td><td>E</td></tr> <tr><td>J</td><td>Y= 392,755.6</td><td>N</td><td>X= 673,143.7</td><td>E</td></tr> </table> LAST TAKE POINT NAD 27 NME Y= 393,028.0 X= 631,312.7 LAT.= 32.079840"N LONG.= 103.909371"W BOTTOM HOLE LOCATION NAD 27 NME Y= 392,889.0 X= 631,312.7 LAT.= 32.079458"N LONG.= 103.909372"W	A	Y= 403,309.4	N	X= 630,586.8	E	B	Y= 403,325.1	N	X= 631,923.1	E	C	Y= 400,654.5	N	X= 630,604.6	E	D	Y= 400,669.1	N	X= 631,940.0	E	E	Y= 397,997.0	N	X= 630,622.4	E	F	Y= 398,011.2	N	X= 631,958.0	E	G	Y= 395,341.8	N	X= 630,625.3	E	H	Y= 395,354.2	N	X= 631,958.0	E	I	Y= 392,687.0	N	X= 630,628.7	E	J	Y= 392,697.7	N	X= 631,958.4	E	A	Y= 403,367.5	N	X= 671,771.7	E	B	Y= 403,383.2	N	X= 673,108.1	E	C	Y= 400,712.5	N	X= 671,789.6	E	D	Y= 400,727.1	N	X= 673,125.0	E	E	Y= 398,055.0	N	X= 671,807.5	E	F	Y= 398,069.2	N	X= 673,143.1	E	G	Y= 395,399.7	N	X= 671,810.5	E	H	Y= 395,412.1	N	X= 673,143.2	E	I	Y= 392,744.9	N	X= 671,814.0	E	J	Y= 392,755.6	N	X= 673,143.7	E	SEC. 20 T25S R30E SEC. 29 SEC. 32 T25S R30E	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. <i>Cheryl Rowell</i> 7/22/20 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. 06-15-2020 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR 2017071044
A	Y= 403,309.4	N	X= 630,586.8	E																																																																																																		
B	Y= 403,325.1	N	X= 631,923.1	E																																																																																																		
C	Y= 400,654.5	N	X= 630,604.6	E																																																																																																		
D	Y= 400,669.1	N	X= 631,940.0	E																																																																																																		
E	Y= 397,997.0	N	X= 630,622.4	E																																																																																																		
F	Y= 398,011.2	N	X= 631,958.0	E																																																																																																		
G	Y= 395,341.8	N	X= 630,625.3	E																																																																																																		
H	Y= 395,354.2	N	X= 631,958.0	E																																																																																																		
I	Y= 392,687.0	N	X= 630,628.7	E																																																																																																		
J	Y= 392,697.7	N	X= 631,958.4	E																																																																																																		
A	Y= 403,367.5	N	X= 671,771.7	E																																																																																																		
B	Y= 403,383.2	N	X= 673,108.1	E																																																																																																		
C	Y= 400,712.5	N	X= 671,789.6	E																																																																																																		
D	Y= 400,727.1	N	X= 673,125.0	E																																																																																																		
E	Y= 398,055.0	N	X= 671,807.5	E																																																																																																		
F	Y= 398,069.2	N	X= 673,143.1	E																																																																																																		
G	Y= 395,399.7	N	X= 671,810.5	E																																																																																																		
H	Y= 395,412.1	N	X= 673,143.2	E																																																																																																		
I	Y= 392,744.9	N	X= 671,814.0	E																																																																																																		
J	Y= 392,755.6	N	X= 673,143.7	E																																																																																																		

Intent ☐ As Drilled ☒

API # 30-015-45620								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: POKER LAKE UNIT 20 BD			Well Number 121H		

Kick Off Point (KOP)

UL M	Section 20	Township 25S	Range 30E	Lot	Feet 290	From N/S S	Feet 465	From E/W W	County EDDY
Latitude 32.109042					Longitude 103.910567				NAD 83

First Take Point (FTP)

UL D	Section 29	Township 25S	Range 30E	Lot	Feet 294	From N/S N	Feet 656	From E/W W	County EDDY
Latitude 32.107441					Longitude 103.909948				NAD 83

Last Take Point (LTP)

UL M	Section 32	Township 25S	Range 30E	Lot	Feet 335	From N/S S	Feet 684	From E/W W	County EDDY
Latitude 32.079965					Longitude 103.909852				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 # 30-015-45492								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: POKER LAKE UNIT 20 BD			Well Number 701H		

KZ 06/29/2018



I Joseph Proske, certify that I am employed by Scout Downhole Inc. (SDI). That I did on the day(s) of 08/19/19 thru 09/11/19 conduct or supervise the taking of a MWD Survey from a depth of 697' to a depth of 9710'; that the data is true, correct, complete and within the limitations of the tool as set forth by Scout Downhole Inc. (SDI).; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO ENERGY LLC. for the PLU 20 Brushy Draw 121H API No. 30-015-45620 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Scout Downhole Inc. (SDI).

Joseph Proske

Joseph
Proske

Digitally signed by: Joseph

Proske

DN: CN = Joseph Proske

email =

jproske@scoutdrilltech.com

C = US O = Scout Downhole

OU = SDI

Date: 2020.05.13 06:57:59 -

05'00'

1125 Beach Airport Rd, Conroe, Texas
77301
PH 936-756-3255 FAX 936-756-3229

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 121H
Project:	Eddy County, NM	TVD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 121H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 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	PLU 20 Brushy Draw		
Site Position:		Northing:	403,644.60 usft
From:	Map	Easting:	631,035.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 32.501 N
		Longitude:	103° 54' 36.475 W
		Grid Convergence:	0.22 °

Well	PLU 20 Brushy Draw 121H 3/5		
Well Position	+N/-S	0.00 usft	Northing: 403,645.38 usft
	+E/-W	0.00 usft	Easting: 631,095.30 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 32.507 N
		Longitude:	103° 54' 35.777 W
		Ground Level:	3,159.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	04/20/19	6.80
			Dip Angle (°)
			59.75
			Field Strength (nT)
			47,839.80000001

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			179.79

Survey Program	Date	09/13/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
367.00	615.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard
697.00	9,790.00	Scout MWD (Wellbore #1)	A008Mb_MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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)	
615.00	0.10	88.00	614.99	2.57	-0.10	-2.57	0.00	0.00	0.00	
697.00	0.88	358.18	696.98	3.20	-0.05	-3.20	1.08	0.95	-109.54	
First Scout MWD Survey @ 697.00' MD										
791.00	0.84	359.59	790.97	4.61	-0.07	-4.61	0.05	-0.04	1.50	
885.00	0.88	358.71	884.96	6.02	-0.10	-6.02	0.04	0.04	-0.94	
980.00	0.62	310.37	979.95	7.08	-0.50	-7.08	0.69	-0.27	-50.88	
1,073.00	1.05	242.96	1,072.95	7.02	-1.65	-7.03	1.07	0.46	-72.48	
1,168.00	1.05	250.96	1,167.93	6.34	-3.24	-6.35	0.15	0.00	8.42	
1,263.00	0.84	221.86	1,262.92	5.54	-4.53	-5.55	0.54	-0.22	-30.63	
1,357.00	1.14	177.48	1,356.91	4.09	-4.95	-4.11	0.85	0.32	-47.21	

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 121H
Project:	Eddy County, NM	TVD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 121H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 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)	
1,453.00	1.23	182.23	1,452.88	2.11	-4.95	-2.12	0.14	0.09	4.95	
1,547.00	1.32	183.81	1,546.86	0.02	-5.06	-0.04	0.10	0.10	1.68	
1,642.00	1.49	177.48	1,641.83	-2.31	-5.08	2.29	0.24	0.18	-6.66	
1,736.00	1.80	182.40	1,735.79	-5.00	-5.09	4.99	0.36	0.33	5.23	
1,830.00	1.89	184.69	1,829.75	-8.02	-5.27	8.00	0.12	0.10	2.44	
1,925.00	2.15	183.46	1,924.69	-11.36	-5.51	11.34	0.28	0.27	-1.29	
2,019.00	1.76	169.57	2,018.63	-14.54	-5.36	14.52	0.65	-0.41	-14.78	
2,113.00	1.54	159.20	2,112.59	-17.14	-4.65	17.13	0.39	-0.23	-11.03	
2,207.00	1.23	157.00	2,206.57	-19.25	-3.80	19.24	0.33	-0.33	-2.34	
2,302.00	0.66	145.84	2,301.55	-20.65	-3.10	20.63	0.63	-0.60	-11.75	
2,396.00	0.88	140.65	2,395.54	-21.65	-2.34	21.64	0.25	0.23	-5.52	
2,490.00	0.66	143.82	2,489.54	-22.65	-1.56	22.64	0.24	-0.23	3.37	
2,584.00	0.84	134.85	2,583.53	-23.57	-0.75	23.57	0.23	0.19	-9.54	
2,679.00	0.92	131.78	2,678.52	-24.57	0.31	24.57	0.10	0.08	-3.23	
2,772.00	1.01	135.12	2,771.50	-25.65	1.45	25.65	0.11	0.10	3.59	
2,866.00	1.27	136.61	2,865.48	-26.99	2.75	27.00	0.28	0.28	1.59	
2,960.00	1.67	133.89	2,959.45	-28.70	4.45	28.71	0.43	0.43	-2.89	
3,054.00	1.63	122.28	3,053.41	-30.36	6.57	30.39	0.36	-0.04	-12.35	
3,148.00	1.23	110.59	3,147.39	-31.43	8.64	31.46	0.52	-0.43	-12.44	
3,243.00	1.76	122.99	3,242.35	-32.58	10.82	32.62	0.65	0.56	13.05	
3,337.00	2.15	124.13	3,336.30	-34.36	13.49	34.41	0.42	0.41	1.21	
3,431.00	2.42	118.77	3,430.22	-36.30	16.69	36.36	0.37	0.29	-5.70	
3,480.00	2.42	119.38	3,479.18	-37.31	18.50	37.38	0.05	0.00	1.24	
3,614.00	2.42	120.53	3,613.06	-40.13	23.40	40.22	0.04	0.00	0.86	
3,708.00	1.23	87.04	3,707.01	-41.09	26.12	41.18	1.65	-1.27	-35.63	
3,803.00	1.23	66.30	3,801.99	-40.63	28.07	40.73	0.47	0.00	-21.83	
3,897.00	1.54	354.40	3,895.97	-38.96	28.87	39.07	1.75	0.33	-76.49	
3,992.00	1.76	354.88	3,990.93	-36.24	28.62	36.35	0.23	0.23	0.51	
4,087.00	1.85	343.68	4,085.88	-33.32	28.05	33.42	0.38	0.09	-11.79	
4,181.00	1.76	346.05	4,179.84	-30.46	27.28	30.56	0.12	-0.10	2.52	
4,274.00	1.76	345.44	4,272.79	-27.69	26.58	27.79	0.02	0.00	-0.66	
4,365.00	1.89	346.41	4,363.75	-24.88	25.87	24.97	0.15	0.14	1.07	
4,460.00	1.76	345.09	4,458.70	-21.95	25.13	22.04	0.14	-0.14	-1.39	
4,554.00	1.49	318.90	4,552.66	-19.63	23.95	19.72	0.83	-0.29	-27.86	
4,649.00	1.85	288.92	4,647.62	-18.20	21.69	18.28	0.98	0.38	-31.56	
4,744.00	1.80	289.01	4,742.58	-17.22	18.83	17.29	0.05	-0.05	0.09	
4,839.00	1.93	291.12	4,837.53	-16.16	15.93	16.22	0.15	0.14	2.22	
4,933.00	1.41	282.68	4,931.49	-15.33	13.32	15.38	0.61	-0.55	-8.98	
5,027.00	0.92	252.36	5,025.47	-15.31	11.48	15.35	0.82	-0.52	-32.26	
5,121.00	0.92	265.02	5,119.45	-15.60	10.00	15.64	0.22	0.00	13.47	
5,215.00	1.01	256.23	5,213.44	-15.86	8.45	15.90	0.18	0.10	-9.35	
5,310.00	0.75	280.84	5,308.43	-15.95	7.02	15.97	0.48	-0.27	25.91	
5,404.00	0.84	296.92	5,402.42	-15.52	5.81	15.54	0.25	0.10	17.11	

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 121H
Project:	Eddy County, NM	TVD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 121H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 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)
5,499.00	0.70	292.26	5,497.41	-14.98	4.65	15.00	0.16	-0.15	-4.91
5,594.00	0.62	289.89	5,592.41	-14.59	3.63	14.60	0.09	-0.08	-2.49
5,688.00	0.79	280.66	5,686.40	-14.30	2.51	14.31	0.22	0.18	-9.82
5,783.00	0.97	272.58	5,781.39	-14.14	1.07	14.14	0.23	0.19	-8.51
5,877.00	0.88	265.02	5,875.38	-14.17	-0.45	14.16	0.16	-0.10	-8.04
5,971.00	0.75	260.71	5,969.37	-14.33	-1.78	14.32	0.15	-0.14	-4.59
6,066.00	0.92	257.55	6,064.36	-14.59	-3.13	14.58	0.19	0.18	-3.33
6,160.00	1.14	244.89	6,158.34	-15.15	-4.72	15.14	0.34	0.23	-13.47
6,255.00	0.79	275.30	6,253.33	-15.49	-6.22	15.47	0.64	-0.37	32.01
6,350.00	0.70	291.21	6,348.32	-15.22	-7.42	15.20	0.24	-0.09	16.75
6,444.00	0.57	291.83	6,442.31	-14.84	-8.39	14.81	0.14	-0.14	0.66
6,539.00	0.35	290.07	6,537.31	-14.57	-9.10	14.53	0.23	-0.23	-1.85
6,633.00	0.44	242.87	6,631.31	-14.63	-9.69	14.60	0.35	0.10	-50.21
6,727.00	0.44	226.70	6,725.31	-15.04	-10.27	15.01	0.13	0.00	-17.20
6,821.00	0.44	229.07	6,819.30	-15.53	-10.81	15.49	0.02	0.00	2.52
6,916.00	0.44	217.47	6,914.30	-16.06	-11.31	16.02	0.09	0.00	-12.21
7,011.00	0.31	23.23	7,009.30	-16.11	-11.43	16.07	0.78	-0.14	174.48
7,106.00	0.22	51.71	7,104.30	-15.76	-11.18	15.72	0.17	-0.09	29.98
7,201.00	0.26	122.72	7,199.30	-15.76	-10.86	15.72	0.30	0.04	74.75
7,295.00	0.18	155.86	7,293.30	-16.01	-10.62	15.98	0.16	-0.09	35.26
7,390.00	0.18	139.16	7,388.30	-16.26	-10.46	16.22	0.06	0.00	-17.58
7,484.00	0.40	102.77	7,482.30	-16.45	-10.04	16.41	0.29	0.23	-38.71
7,579.00	0.70	226.61	7,577.29	-16.92	-10.14	16.88	1.03	0.32	130.36
7,674.00	1.27	248.67	7,672.28	-17.70	-11.54	17.66	0.71	0.60	23.22
7,768.00	1.27	282.42	7,766.26	-17.86	-13.53	17.81	0.78	0.00	35.90
7,863.00	0.75	311.95	7,861.24	-17.21	-15.02	17.16	0.76	-0.55	31.08
7,958.00	0.62	265.37	7,956.24	-16.84	-16.00	16.78	0.58	-0.14	-49.03
8,052.00	1.49	257.64	8,050.22	-17.14	-17.70	17.08	0.94	0.93	-8.22
8,146.00	1.14	278.91	8,144.20	-17.26	-19.81	17.19	0.63	-0.37	22.63
8,241.00	0.53	322.85	8,239.19	-16.76	-21.01	16.69	0.89	-0.64	46.25
8,334.00	1.14	312.22	8,332.18	-15.80	-21.96	15.72	0.67	0.66	-11.43
8,429.00	0.13	296.13	8,427.17	-15.12	-22.76	15.03	1.07	-1.06	-16.94
8,524.00	0.31	157.88	8,522.17	-15.31	-22.76	15.22	0.44	0.19	-145.53
8,619.00	0.13	221.51	8,617.17	-15.63	-22.73	15.54	0.29	-0.19	66.98
8,714.00	0.53	265.28	8,712.17	-15.74	-23.24	15.66	0.47	0.42	46.07
8,809.00	0.66	245.95	8,807.16	-16.00	-24.18	15.91	0.25	0.14	-20.35
8,904.00	0.53	269.15	8,902.16	-16.23	-25.12	16.14	0.29	-0.14	24.42
8,999.00	0.97	238.65	8,997.15	-16.66	-26.24	16.56	0.61	0.46	-32.11
9,094.00	1.01	228.02	9,092.13	-17.63	-27.55	17.53	0.20	0.04	-11.19
9,189.00	1.14	208.68	9,187.12	-19.02	-28.63	18.92	0.40	0.14	-20.36
9,284.00	1.32	204.90	9,282.10	-20.84	-29.54	20.74	0.21	0.19	-3.98
9,378.00	1.10	202.44	9,376.07	-22.66	-30.34	22.55	0.24	-0.23	-2.62
9,472.00	1.23	213.08	9,470.06	-24.34	-31.24	24.23	0.27	0.14	11.32

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 121H
Project:	Eddy County, NM	TVD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3159' + 31' KB @ 3190.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 121H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 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)	
9,566.00	1.49	234.78	9,564.03	-25.89	-32.79	25.77	0.61	0.28	23.09	
9,660.00	2.02	227.75	9,657.99	-27.71	-35.01	27.58	0.61	0.56	-7.48	
9,710.00	1.98	231.53	9,707.95	-28.84	-36.34	28.71	0.28	-0.08	7.56	
Last Scout MWD Survey @ 9710.00' MD										
9,790.00	1.98	231.53	9,787.91	-30.56	-38.50	30.42	0.00	0.00	0.00	
Projection to Bit @ 9790.00' MD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
697.00	696.98	3.20	-0.05	First Scout MWD Survey @ 697.00' MD	
9,710.00	9,707.95	-28.84	-36.34	Last Scout MWD Survey @ 9710.00' MD	
9,790.00	9,787.91	-30.56	-38.50	Projection to Bit @ 9790.00' MD	

Checked By: _____ Approved By: _____ Date: _____



· Directional Drilling · Horizontal Drilling · MWD/LWD · Mud Motors

Survey Certification

January 21, 2020

State of New Mexico
County of Eddy

I, Allison Reinert, certify that; I am employed by Aim Directional Services, LLC; that I did on the day(s) of October 14, 2019 through October 31, 2019 conduct or supervise the taking of a directional MWD survey from a depth of 9811 feet to a depth of 17907 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Aim 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 Poker Lake Unit 20BD #121H Original Hole API No. 30-015-45620 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Aim Directional Services, LLC.

Survey Instrument Type
Surcon MSA Corrected

Allison
Reinert

Allison Reinert
VP Engineering
Aim Directional Services, LLC

Digitally signed by Allison Reinert
DN: cn=Allison Reinert, o=Aim Directional
Services, ou=VP Engineering,
email=allison.reinert@aimdir.com, c=US
Date: 2020.01.21 12:06:44 -06'00'

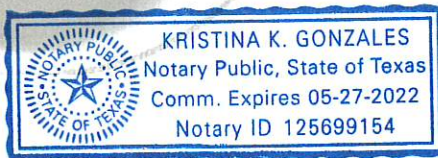
Subscribed and Sworn to before me this 21 day of January (month) 2020

My Commission Expires: 05/27/2022

Kristina K. Gonzales
Notary Public

Noecea, TX

County, State





Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Project	Eddy Co., NM (NAD 27 NME)		
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 20BD #121H		
Site Position:		Northing:	403,645.40 usft
From:	Map	Easting:	631,095.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 32.507 N
		Longitude:	103° 54' 35.777 W
		Grid Convergence:	0.23 °

Well	PLU 20BD #121H		
Well Position	+N/-S	0.00 usft	Northing: 403,645.40 usft
	+E/-W	0.00 usft	Easting: 631,095.30 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: usft
			Latitude: 32° 6' 32.507 N
			Longitude: 103° 54' 35.777 W
			Ground Level: 3,159.00 usft

Wellbore	Drilling		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	9/12/2019	6.75
			Dip Angle (°) 59.73
			Field Strength (nT) 47,805.48860169

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 179.77

Survey Program	Date	10/28/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
120.00	615.00	Sfc Svys (Drilling)	MWD+HRGM	OWSG MWD + HRGM
697.00	9,710.00	Scout Svys (Drilling)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
9,811.00	17,907.00	Aim MWD Svys (Drilling)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,710.00	1.98	231.53	9,707.95	-28.94	-36.34	28.80	0.000	0.000	0.000
Tie on Scout									
9,811.00	2.31	227.29	9,808.88	-31.41	-39.20	31.25	0.362	0.327	-4.198
First Aim Svy									
9,906.00	1.95	226.32	9,903.82	-33.82	-41.78	33.66	0.381	-0.379	-1.021
10,001.00	1.64	215.50	9,998.77	-36.05	-43.73	35.87	0.482	-0.326	-11.389
10,096.00	1.33	219.53	10,093.74	-38.00	-45.23	37.82	0.344	-0.326	4.242
10,191.00	4.71	166.15	10,188.61	-42.64	-44.99	42.46	4.273	3.558	-56.189



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,238.00	10.10	156.31	10,235.20	-48.30	-42.87	48.12	11.740	11.468	-20.936
10,286.00	12.42	163.68	10,282.27	-57.11	-39.73	56.95	5.678	4.833	15.354
10,333.00	16.88	170.40	10,327.74	-68.69	-37.17	68.54	10.140	9.489	14.298
10,381.00	21.85	170.95	10,373.01	-84.39	-34.60	84.25	10.361	10.354	1.146
10,428.00	25.38	155.58	10,416.11	-102.22	-29.06	102.11	15.042	7.511	-32.702
10,476.00	28.11	155.09	10,458.97	-121.85	-20.04	121.77	5.706	5.687	-1.021
10,570.00	36.08	151.31	10,538.54	-166.29	2.61	166.30	8.740	8.479	-4.021
10,618.00	43.47	149.46	10,575.41	-192.95	17.81	193.02	15.591	15.396	-3.854
10,665.00	50.38	148.57	10,607.49	-222.36	35.49	222.50	14.767	14.702	-1.894
10,712.00	54.75	150.12	10,636.06	-254.46	54.50	254.68	9.659	9.298	3.298
10,759.00	58.63	152.83	10,661.86	-288.97	73.23	289.26	9.558	8.255	5.766
10,806.00	62.68	156.79	10,684.90	-326.03	90.63	326.39	11.320	8.617	8.426
10,853.00	66.09	161.49	10,705.23	-365.62	105.69	366.05	11.572	7.255	10.000
10,900.00	69.36	164.91	10,723.04	-407.25	118.25	407.72	9.681	6.957	7.277
10,948.00	71.94	168.13	10,738.95	-451.28	128.79	451.80	8.303	5.375	6.708
10,995.00	73.82	171.19	10,752.79	-495.46	136.84	496.01	7.397	4.000	6.511
11,042.00	78.21	173.70	10,764.14	-540.66	142.83	541.23	10.681	9.340	5.340
11,090.00	83.17	175.70	10,771.91	-587.81	147.20	588.40	11.121	10.333	4.167
11,138.00	87.38	178.88	10,775.86	-635.58	149.45	636.17	10.977	8.771	6.625
11,232.00	88.70	179.46	10,779.08	-729.51	150.82	730.11	1.534	1.404	0.617
11,327.00	88.03	180.02	10,781.79	-824.47	151.25	825.07	0.919	-0.705	0.589
11,420.00	89.71	180.31	10,783.62	-917.45	150.98	918.05	1.833	1.806	0.312
11,515.00	88.73	181.67	10,784.92	-1,012.42	149.34	1,013.01	1.764	-1.032	1.432
11,610.00	89.03	179.15	10,786.77	-1,107.39	148.66	1,107.98	2.671	0.316	-2.653
11,705.00	90.07	179.44	10,787.52	-1,202.38	149.83	1,202.97	1.136	1.095	0.305
11,799.00	89.82	179.65	10,787.61	-1,296.38	150.57	1,296.97	0.347	-0.266	0.223
11,894.00	92.53	179.31	10,785.66	-1,391.34	151.43	1,391.94	2.875	2.853	-0.358
11,989.00	92.34	180.61	10,781.62	-1,486.26	151.50	1,486.85	1.382	-0.200	1.368
12,084.00	91.92	180.63	10,778.09	-1,581.19	150.47	1,581.78	0.443	-0.442	0.021
12,179.00	91.75	180.91	10,775.05	-1,676.13	149.20	1,676.71	0.345	-0.179	0.295
12,274.00	90.88	179.55	10,772.87	-1,771.10	148.82	1,771.68	1.699	-0.916	-1.432
12,369.00	90.35	179.89	10,771.85	-1,866.09	149.28	1,866.68	0.663	-0.558	0.358
12,463.00	89.65	180.20	10,771.85	-1,960.09	149.21	1,960.67	0.814	-0.745	0.330
12,557.00	89.51	179.28	10,772.54	-2,054.09	149.63	2,054.67	0.990	-0.149	-0.979
12,652.00	89.87	180.82	10,773.05	-2,149.08	149.55	2,149.67	1.665	0.379	1.621
12,746.00	88.86	180.19	10,774.10	-2,243.07	148.72	2,243.65	1.266	-1.074	-0.670
12,839.00	89.82	179.24	10,775.17	-2,336.06	149.18	2,336.64	1.452	1.032	-1.022
12,934.00	89.23	179.10	10,775.96	-2,431.05	150.56	2,431.63	0.638	-0.621	-0.147
13,029.00	90.91	177.12	10,775.84	-2,525.99	153.69	2,526.59	2.733	1.768	-2.084
13,123.00	90.49	176.86	10,774.69	-2,619.85	158.63	2,620.47	0.525	-0.447	-0.277
13,218.00	89.48	179.50	10,774.72	-2,714.79	161.65	2,715.42	2.975	-1.063	2.779
13,312.00	89.43	179.51	10,775.61	-2,808.79	162.46	2,809.42	0.054	-0.053	0.011
13,405.00	89.03	179.88	10,776.86	-2,901.78	162.95	2,902.41	0.586	-0.430	0.398
13,499.00	88.75	180.79	10,778.68	-2,995.76	162.40	2,996.38	1.013	-0.298	0.968



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,593.00	89.57	179.95	10,780.06	-3,089.74	161.80	3,090.37	1.249	0.872	-0.894
13,689.00	89.68	179.89	10,780.69	-3,185.74	161.93	3,186.36	0.131	0.115	-0.062
13,783.00	89.34	180.32	10,781.49	-3,279.74	161.76	3,280.36	0.583	-0.362	0.457
13,877.00	89.71	178.93	10,782.27	-3,373.73	162.37	3,374.35	1.530	0.394	-1.479
13,972.00	89.23	178.59	10,783.15	-3,468.70	164.43	3,469.33	0.619	-0.505	-0.358
14,067.00	88.56	178.26	10,784.98	-3,563.65	167.04	3,564.29	0.786	-0.705	-0.347
14,161.00	90.63	178.47	10,785.65	-3,657.60	169.72	3,658.25	2.213	2.202	0.223
14,260.00	91.05	179.88	10,784.19	-3,756.58	171.15	3,757.23	1.486	0.424	1.424
14,355.00	92.56	181.55	10,781.20	-3,851.52	169.96	3,852.17	2.369	1.589	1.758
14,449.00	92.59	181.77	10,776.98	-3,945.38	167.24	3,946.02	0.236	0.032	0.234
14,544.00	92.40	181.77	10,772.84	-4,040.25	164.31	4,040.87	0.200	-0.200	0.000
14,638.00	89.87	178.56	10,770.98	-4,134.21	164.04	4,134.83	4.347	-2.691	-3.415
14,732.00	90.10	179.22	10,771.01	-4,228.19	165.86	4,228.82	0.744	0.245	0.702
14,826.00	89.20	179.29	10,771.58	-4,322.18	167.09	4,322.82	0.960	-0.957	0.074
14,921.00	86.99	178.72	10,774.74	-4,417.11	168.73	4,417.75	2.402	-2.326	-0.600
15,014.00	89.79	179.60	10,777.35	-4,510.05	170.10	4,510.70	3.156	3.011	0.946
15,109.00	93.52	180.36	10,774.61	-4,604.99	170.13	4,605.64	4.007	3.926	0.800
15,204.00	91.58	179.02	10,770.38	-4,699.89	170.64	4,700.54	2.481	-2.042	-1.411
15,299.00	89.96	178.52	10,769.10	-4,794.86	172.68	4,795.51	1.785	-1.705	-0.526
15,394.00	91.11	180.22	10,768.22	-4,889.84	173.73	4,890.50	2.160	1.211	1.789
15,489.00	91.44	181.30	10,766.10	-4,984.81	172.47	4,985.46	1.188	0.347	1.137
15,583.00	91.42	180.82	10,763.76	-5,078.76	170.73	5,079.41	0.511	-0.021	-0.511
15,678.00	90.13	180.33	10,762.47	-5,173.75	169.78	5,174.39	1.453	-1.358	-0.516
15,774.00	91.72	180.58	10,760.92	-5,269.73	169.01	5,270.36	1.677	1.656	0.260
15,868.00	88.92	177.96	10,760.40	-5,363.70	170.21	5,364.34	4.079	-2.979	-2.787
15,963.00	90.21	179.34	10,761.12	-5,458.67	172.45	5,459.32	1.988	1.358	1.453
16,057.00	90.55	179.77	10,760.49	-5,552.66	173.18	5,553.31	0.583	0.362	0.457
16,152.00	91.58	181.06	10,758.73	-5,647.64	172.49	5,648.29	1.737	1.084	1.358
16,247.00	87.18	178.36	10,759.76	-5,742.60	172.97	5,743.25	5.434	-4.632	-2.842
16,341.00	87.80	178.18	10,763.87	-5,836.47	175.81	5,837.13	0.687	0.660	-0.191
16,435.00	87.69	178.40	10,767.57	-5,930.35	178.61	5,931.02	0.262	-0.117	0.234
16,530.00	89.43	178.61	10,769.96	-6,025.29	181.09	6,025.97	1.845	1.832	0.221
16,623.00	91.05	179.14	10,769.57	-6,118.27	182.91	6,118.95	1.833	1.742	0.570
16,717.00	89.87	178.64	10,768.81	-6,212.24	184.73	6,212.93	1.363	-1.255	-0.532
16,811.00	88.70	178.73	10,769.99	-6,306.21	186.89	6,306.91	1.248	-1.245	0.096
16,906.00	88.50	179.42	10,772.31	-6,401.17	188.42	6,401.87	0.756	-0.211	0.726
17,001.00	89.85	178.37	10,773.68	-6,496.14	190.26	6,496.85	1.800	1.421	-1.105
17,095.00	91.70	179.52	10,772.41	-6,590.11	191.99	6,590.82	2.317	1.968	1.223
17,189.00	92.37	179.10	10,769.07	-6,684.04	193.12	6,684.76	0.841	0.713	-0.447
17,284.00	91.64	178.85	10,765.74	-6,778.97	194.82	6,779.69	0.812	-0.768	-0.263
17,378.00	92.14	180.49	10,762.64	-6,872.91	195.36	6,873.64	1.823	0.532	1.745
17,472.00	90.38	179.73	10,760.58	-6,966.88	195.18	6,967.61	2.039	-1.872	-0.809
17,567.00	86.90	178.47	10,762.83	-7,061.83	196.67	7,062.56	3.896	-3.663	-1.326



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
17,661.00	86.14	178.69	10,768.54	-7,155.62	198.99	7,156.37	0.842	-0.809	0.234
17,754.00	93.52	182.69	10,768.81	-7,248.53	197.87	7,249.27	9.025	7.935	4.301
17,849.00	94.39	183.18	10,762.26	-7,343.18	193.02	7,343.90	1.050	0.916	0.516
Last Aim Svy									
17,907.00	94.39	183.18	10,757.82	-7,400.92	189.81	7,401.63	0.000	0.000	0.000
Projection to Bit									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,710.00	9,707.95	-28.94	-36.34	Tie on Scout
9,811.00	9,808.88	-31.41	-39.20	First Aim Svy
17,849.00	10,762.26	-7,343.18	193.02	Last Aim Svy
17,907.00	10,757.82	-7,400.92	189.81	Projection to Bit

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



· Directional Drilling · Horizontal Drilling · MWD/LWD · Mud Motors

Survey Certification

January 21, 2020

State of New Mexico
County of Eddy

I, Allison Reinert, certify that; I am employed by Aim Directional Services, LLC; that I did on the day(s) of November 4, 2019 through November 14, 2019 conduct or supervise the taking of a directional MWD survey from a depth of 15671 feet to a depth of 21265 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Aim 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 Poker Lake Unit 20BD #121H Sidetrack 01 API No. 30-015-45620 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Aim Directional Services, LLC.

Survey Instrument Type
Surcon MSA Corrected

Allison
Reinert

Allison Reinert
VP Engineering
Aim Directional Services, LLC

Digitally signed by Allison Reinert
DN: cn=Allison Reinert, o=Aim Directional
Services, ou=VP Engineering,
email=allison.reinert@aimdir.com, c=US
Date: 2020.01.21 12:04:46 -0600

Subscribed and Sworn to before me this 21 day of January (month) 2022

My Commission Expires: 05/27/2022

Kristina K. Gonzales
Notary Public



Nueces, TX
County, State



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Project	Eddy Co., NM (NAD 27 NME)		
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 20BD #121H		
Site Position:		Northing:	403,645.40 usft
From:	Map	Easting:	631,095.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 32.507 N
		Longitude:	103° 54' 35.777 W
		Grid Convergence:	0.23 °

Well	PLU 20BD #121H		
Well Position	+N/-S	0.00 usft	Northing: 403,645.40 usft
	+E/-W	0.00 usft	Easting: 631,095.30 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: usft
			Latitude: 32° 6' 32.507 N
			Longitude: 103° 54' 35.777 W
			Ground Level: 3,159.00 usft

Wellbore	ST01 Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	11/6/2019	6.74	59.72	47,789.113

Design	ST01 Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	15,583.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.77	

Survey Program	Date	11/14/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
120.00	615.00	Sfc Svys (ST00 Drilling)	MWD+HRGM	OWSG MWD + HRGM	
697.00	9,710.00	Scout Svys (ST00 Drilling)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
9,811.00	15,583.00	Aim ST00 Svys (ST00 Drilling)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
15,671.00	21,265.00	Aim ST01 MWD Svys (ST01 Drilling)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.000	0.000	0.000	
367.00	0.10	0.00	367.00	0.22	0.00	-0.22	0.040	0.040	0.000	
468.00	1.00	354.00	467.99	1.18	-0.09	-1.18	0.892	0.891	-5.941	
615.00	0.10	88.00	614.99	2.46	-0.10	-2.46	0.688	-0.612	63.945	
697.00	0.88	358.18	696.98	3.09	-0.05	-3.09	1.080	0.951	-109.536	
791.00	0.84	359.59	790.97	4.50	-0.07	-4.50	0.048	-0.043	1.500	
885.00	0.88	358.71	884.96	5.91	-0.10	-5.91	0.045	0.043	-0.936	



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
980.00	0.62	310.37	979.95	6.98	-0.50	-6.98	0.693	-0.274	-50.884
1,073.00	1.05	242.96	1,072.95	6.91	-1.65	-6.92	1.068	0.462	-72.484
1,168.00	1.05	250.96	1,167.93	6.23	-3.24	-6.25	0.154	0.000	8.421
1,263.00	0.84	221.86	1,262.92	5.43	-4.53	-5.45	0.544	-0.221	-30.632
1,357.00	1.14	177.48	1,356.91	3.98	-4.95	-4.00	0.849	0.319	-47.213
1,453.00	1.23	182.23	1,452.89	2.00	-4.95	-2.02	0.139	0.094	4.948
1,547.00	1.32	183.81	1,546.86	-0.09	-5.06	0.07	0.103	0.096	1.681
1,642.00	1.49	177.48	1,641.83	-2.41	-5.08	2.39	0.242	0.179	-6.663
1,736.00	1.80	182.40	1,735.79	-5.11	-5.09	5.09	0.362	0.330	5.234
1,830.00	1.89	184.69	1,829.75	-8.13	-5.27	8.11	0.124	0.096	2.436
1,925.00	2.15	183.46	1,924.69	-11.47	-5.51	11.45	0.277	0.274	-1.295
2,019.00	1.76	169.57	2,018.63	-14.65	-5.36	14.63	0.650	-0.415	-14.777
2,113.00	1.54	159.20	2,112.59	-17.25	-4.65	17.23	0.394	-0.234	-11.032
2,207.00	1.23	157.00	2,206.57	-19.36	-3.80	19.34	0.335	-0.330	-2.340
2,302.00	0.66	145.84	2,301.55	-20.75	-3.10	20.74	0.628	-0.600	-11.747
2,396.00	0.88	140.65	2,395.54	-21.76	-2.34	21.75	0.245	0.234	-5.521
2,490.00	0.66	143.82	2,489.54	-22.75	-1.56	22.75	0.238	-0.234	3.372
2,584.00	0.84	134.85	2,583.53	-23.67	-0.75	23.67	0.228	0.191	-9.543
2,679.00	0.92	131.78	2,678.52	-24.67	0.31	24.67	0.098	0.084	-3.232
2,772.00	1.01	135.12	2,771.50	-25.75	1.45	25.76	0.114	0.097	3.591
2,866.00	1.27	136.61	2,865.48	-27.10	2.75	27.11	0.278	0.277	1.585
2,960.00	1.67	133.89	2,959.45	-28.80	4.45	28.82	0.432	0.426	-2.894
3,054.00	1.63	122.28	3,053.41	-30.47	6.57	30.49	0.358	-0.043	-12.351
3,148.00	1.23	110.59	3,147.39	-31.53	8.64	31.57	0.525	-0.426	-12.436
3,243.00	1.76	122.99	3,242.35	-32.69	10.82	32.73	0.650	0.558	13.053
3,337.00	2.15	124.13	3,336.30	-34.46	13.49	34.52	0.417	0.415	1.213
3,431.00	2.42	118.77	3,430.22	-36.41	16.69	36.47	0.366	0.287	-5.702
3,480.00	2.42	119.38	3,479.18	-37.41	18.50	37.49	0.053	0.000	1.245
3,614.00	2.42	120.53	3,613.06	-40.24	23.40	40.33	0.036	0.000	0.858
3,708.00	1.23	87.04	3,707.01	-41.19	26.12	41.30	1.650	-1.266	-35.628
3,803.00	1.23	66.30	3,801.99	-40.73	28.07	40.84	0.466	0.000	-21.832
3,897.00	1.54	354.40	3,895.97	-39.07	28.87	39.18	1.750	0.330	-76.489
3,992.00	1.76	354.88	3,990.93	-36.35	28.62	36.46	0.232	0.232	0.505
4,087.00	1.85	343.68	4,085.88	-33.42	28.05	33.53	0.383	0.095	-11.789
4,181.00	1.76	346.05	4,179.84	-30.56	27.28	30.67	0.124	-0.096	2.521
4,274.00	1.76	345.44	4,272.79	-27.80	26.58	27.90	0.020	0.000	-0.656
4,365.00	1.89	346.41	4,363.75	-24.98	25.87	25.09	0.147	0.143	1.066
4,460.00	1.76	345.09	4,458.70	-22.05	25.13	22.15	0.144	-0.137	-1.389
4,554.00	1.49	318.90	4,552.66	-19.74	23.95	19.83	0.832	-0.287	-27.862
4,649.00	1.85	288.92	4,647.62	-18.31	21.69	18.39	0.980	0.379	-31.558
4,744.00	1.80	289.01	4,742.58	-17.32	18.83	17.40	0.053	-0.053	0.095
4,839.00	1.93	291.12	4,837.53	-16.26	15.93	16.33	0.155	0.137	2.221
4,933.00	1.41	282.68	4,931.49	-15.44	13.32	15.49	0.610	-0.553	-8.979



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,027.00	0.92	252.36	5,025.47	-15.41	11.48	15.46	0.821	-0.521	-32.255
5,121.00	0.92	265.02	5,119.45	-15.71	10.00	15.75	0.216	0.000	13.468
5,215.00	1.01	256.23	5,213.44	-15.97	8.45	16.00	0.184	0.096	-9.351
5,310.00	0.75	280.84	5,308.43	-16.05	7.02	16.08	0.477	-0.274	25.905
5,404.00	0.84	296.92	5,402.42	-15.62	5.81	15.65	0.255	0.096	17.106
5,499.00	0.70	292.26	5,497.41	-15.09	4.65	15.11	0.161	-0.147	-4.905
5,594.00	0.62	289.89	5,592.41	-14.69	3.63	14.71	0.089	-0.084	-2.495
5,688.00	0.79	280.66	5,686.40	-14.40	2.51	14.41	0.217	0.181	-9.819
5,783.00	0.97	272.58	5,781.39	-14.24	1.07	14.25	0.230	0.189	-8.505
5,877.00	0.88	265.02	5,875.38	-14.27	-0.45	14.27	0.161	-0.096	-8.043
5,971.00	0.75	260.71	5,969.37	-14.43	-1.78	14.43	0.153	-0.138	-4.585
6,066.00	0.92	257.55	6,064.36	-14.70	-3.13	14.69	0.185	0.179	-3.326
6,160.00	1.14	244.89	6,158.34	-15.26	-4.72	15.24	0.335	0.234	-13.468
6,255.00	0.79	275.30	6,253.33	-15.60	-6.22	15.57	0.641	-0.368	32.010
6,350.00	0.70	291.21	6,348.32	-15.33	-7.42	15.30	0.236	-0.095	16.747
6,444.00	0.57	291.83	6,442.31	-14.95	-8.39	14.91	0.138	-0.138	0.660
6,539.00	0.35	290.07	6,537.31	-14.67	-9.10	14.63	0.232	-0.232	-1.853
6,633.00	0.44	242.87	6,631.31	-14.74	-9.69	14.70	0.348	0.096	-50.213
6,727.00	0.44	226.70	6,725.31	-15.15	-10.27	15.11	0.132	0.000	-17.202
6,821.00	0.44	229.07	6,819.30	-15.63	-10.81	15.59	0.019	0.000	2.521
6,916.00	0.44	217.47	6,914.30	-16.16	-11.31	16.12	0.094	0.000	-12.211
7,011.00	0.31	23.23	7,009.30	-16.21	-11.43	16.17	0.784	-0.137	174.484
7,106.00	0.22	51.71	7,104.30	-15.87	-11.18	15.82	0.165	-0.095	29.979
7,201.00	0.26	122.72	7,199.30	-15.87	-10.86	15.83	0.295	0.042	74.747
7,295.00	0.18	155.86	7,293.30	-16.12	-10.62	16.08	0.156	-0.085	35.255
7,390.00	0.18	139.16	7,388.30	-16.37	-10.46	16.33	0.055	0.000	-17.579
7,484.00	0.40	102.77	7,482.30	-16.55	-10.04	16.51	0.294	0.234	-38.713
7,579.00	0.70	226.61	7,577.29	-17.02	-10.14	16.98	1.032	0.316	130.358
7,674.00	1.27	248.67	7,672.28	-17.81	-11.54	17.76	0.710	0.600	23.221
7,768.00	1.27	282.42	7,766.26	-17.96	-13.53	17.91	0.784	0.000	35.904
7,863.00	0.75	311.95	7,861.24	-17.32	-15.02	17.26	0.757	-0.547	31.084
7,958.00	0.62	265.37	7,956.24	-16.94	-16.00	16.88	0.584	-0.137	-49.031
8,052.00	1.49	257.64	8,050.22	-17.25	-17.70	17.18	0.936	0.926	-8.223
8,146.00	1.14	278.91	8,144.20	-17.36	-19.81	17.28	0.633	-0.372	22.628
8,241.00	0.53	322.85	8,239.19	-16.87	-21.01	16.78	0.887	-0.642	46.253
8,334.00	1.14	312.22	8,332.18	-15.90	-21.96	15.81	0.674	0.656	-11.430
8,429.00	0.13	296.13	8,427.17	-15.22	-22.76	15.13	1.069	-1.063	-16.937
8,524.00	0.31	157.88	8,522.17	-15.41	-22.76	15.32	0.438	0.189	-145.526
8,619.00	0.13	221.51	8,617.17	-15.73	-22.73	15.64	0.292	-0.189	66.979
8,714.00	0.53	265.28	8,712.17	-15.85	-23.24	15.75	0.469	0.421	46.074
8,809.00	0.66	245.95	8,807.16	-16.11	-24.18	16.01	0.250	0.137	-20.347
8,904.00	0.53	269.15	8,902.16	-16.34	-25.12	16.23	0.285	-0.137	24.421
8,999.00	0.97	238.65	8,997.15	-16.76	-26.24	16.65	0.610	0.463	-32.105
9,094.00	1.01	228.02	9,092.13	-17.74	-27.55	17.63	0.198	0.042	-11.189



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,189.00	1.14	208.68	9,187.12	-19.13	-28.63	19.01	0.403	0.137	-20.358
9,284.00	1.32	204.90	9,282.10	-20.95	-29.54	20.83	0.208	0.189	-3.979
9,378.00	1.10	202.44	9,376.07	-22.77	-30.34	22.64	0.240	-0.234	-2.617
9,472.00	1.23	213.08	9,470.06	-24.44	-31.24	24.32	0.268	0.138	11.319
9,566.00	1.49	234.78	9,564.03	-25.99	-32.79	25.86	0.609	0.277	23.085
9,660.00	2.02	227.75	9,657.99	-27.81	-35.01	27.67	0.608	0.564	-7.479
9,710.00	1.98	231.53	9,707.95	-28.94	-36.34	28.80	0.276	-0.080	7.560
9,811.00	2.31	227.29	9,808.88	-31.41	-39.20	31.25	0.362	0.327	-4.198
9,906.00	1.95	226.32	9,903.82	-33.82	-41.78	33.66	0.381	-0.379	-1.021
10,001.00	1.64	215.50	9,998.77	-36.05	-43.73	35.87	0.482	-0.326	-11.389
10,096.00	1.33	219.53	10,093.74	-38.00	-45.23	37.82	0.344	-0.326	4.242
10,191.00	4.71	166.15	10,188.61	-42.64	-44.99	42.46	4.273	3.558	-56.189
10,238.00	10.10	156.31	10,235.20	-48.30	-42.87	48.12	11.740	11.468	-20.936
10,286.00	12.42	163.68	10,282.27	-57.11	-39.73	56.95	5.678	4.833	15.354
10,333.00	16.88	170.40	10,327.74	-68.69	-37.17	68.54	10.140	9.489	14.298
10,381.00	21.85	170.95	10,373.01	-84.39	-34.60	84.25	10.361	10.354	1.146
10,428.00	25.38	155.58	10,416.11	-102.22	-29.06	102.11	15.042	7.511	-32.702
10,476.00	28.11	155.09	10,458.97	-121.85	-20.04	121.77	5.706	5.687	-1.021
10,570.00	36.08	151.31	10,538.54	-166.29	2.61	166.30	8.740	8.479	-4.021
10,618.00	43.47	149.46	10,575.41	-192.95	17.81	193.02	15.591	15.396	-3.854
10,665.00	50.38	148.57	10,607.49	-222.36	35.49	222.50	14.767	14.702	-1.894
10,712.00	54.75	150.12	10,636.06	-254.46	54.50	254.68	9.659	9.298	3.298
10,759.00	58.63	152.83	10,661.86	-288.97	73.23	289.26	9.558	8.255	5.766
10,806.00	62.68	156.79	10,684.90	-326.03	90.63	326.39	11.320	8.617	8.426
10,853.00	66.09	161.49	10,705.23	-365.62	105.69	366.05	11.572	7.255	10.000
10,900.00	69.36	164.91	10,723.04	-407.25	118.25	407.72	9.681	6.957	7.277
10,948.00	71.94	168.13	10,738.95	-451.28	128.79	451.80	8.303	5.375	6.708
10,995.00	73.82	171.19	10,752.79	-495.46	136.84	496.01	7.397	4.000	6.511
11,042.00	78.21	173.70	10,764.14	-540.66	142.83	541.23	10.681	9.340	5.340
11,090.00	83.17	175.70	10,771.91	-587.81	147.20	588.40	11.121	10.333	4.167
11,138.00	87.38	178.88	10,775.86	-635.58	149.45	636.17	10.977	8.771	6.625
11,160.87	87.70	179.02	10,776.84	-658.43	149.87	659.02	1.534	1.404	0.617
TP1 - PLU 20BD #121H - L1r2									
11,232.00	88.70	179.46	10,779.08	-729.51	150.82	730.11	1.534	1.404	0.617
11,327.00	88.03	180.02	10,781.79	-824.47	151.25	825.07	0.919	-0.705	0.589
11,420.00	89.71	180.31	10,783.62	-917.45	150.98	918.05	1.833	1.806	0.312
11,515.00	88.73	181.67	10,784.92	-1,012.42	149.34	1,013.01	1.764	-1.032	1.432
11,610.00	89.03	179.15	10,786.77	-1,107.39	148.66	1,107.98	2.671	0.316	-2.653
11,705.00	90.07	179.44	10,787.52	-1,202.38	149.83	1,202.97	1.136	1.095	0.305
11,799.00	89.82	179.65	10,787.61	-1,296.38	150.57	1,296.97	0.347	-0.266	0.223
11,894.00	92.53	179.31	10,785.66	-1,391.34	151.43	1,391.94	2.875	2.853	-0.358
11,989.00	92.34	180.61	10,781.62	-1,486.26	151.50	1,486.85	1.382	-0.200	1.368
12,084.00	91.92	180.63	10,778.09	-1,581.19	150.47	1,581.78	0.443	-0.442	0.021



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,179.00	91.75	180.91	10,775.05	-1,676.13	149.20	1,676.71	0.345	-0.179	0.295
12,274.00	90.88	179.55	10,772.87	-1,771.10	148.82	1,771.68	1.699	-0.916	-1.432
12,369.00	90.35	179.89	10,771.85	-1,866.09	149.28	1,866.68	0.663	-0.558	0.358
12,463.00	89.65	180.20	10,771.85	-1,960.09	149.21	1,960.67	0.814	-0.745	0.330
12,557.00	89.51	179.28	10,772.54	-2,054.09	149.63	2,054.67	0.990	-0.149	-0.979
12,652.00	89.87	180.82	10,773.05	-2,149.08	149.55	2,149.67	1.665	0.379	1.621
12,746.00	88.86	180.19	10,774.10	-2,243.07	148.72	2,243.65	1.266	-1.074	-0.670
12,839.00	89.82	179.24	10,775.17	-2,336.06	149.18	2,336.64	1.452	1.032	-1.022
12,934.00	89.23	179.10	10,775.96	-2,431.05	150.56	2,431.63	0.638	-0.621	-0.147
13,029.00	90.91	177.12	10,775.84	-2,525.99	153.69	2,526.59	2.733	1.768	-2.084
13,123.00	90.49	176.86	10,774.69	-2,619.85	158.63	2,620.47	0.525	-0.447	-0.277
13,218.00	89.48	179.50	10,774.72	-2,714.79	161.65	2,715.42	2.975	-1.063	2.779
13,312.00	89.43	179.51	10,775.61	-2,808.79	162.46	2,809.42	0.054	-0.053	0.011
13,405.00	89.03	179.88	10,776.86	-2,901.78	162.95	2,902.41	0.586	-0.430	0.398
13,499.00	88.75	180.79	10,778.68	-2,995.76	162.40	2,996.38	1.013	-0.298	0.968
13,593.00	89.57	179.95	10,780.06	-3,089.74	161.80	3,090.37	1.249	0.872	-0.894
13,689.00	89.68	179.89	10,780.69	-3,185.74	161.93	3,186.36	0.131	0.115	-0.062
13,783.00	89.34	180.32	10,781.49	-3,279.74	161.76	3,280.36	0.583	-0.362	0.457
13,877.00	89.71	178.93	10,782.27	-3,373.73	162.37	3,374.35	1.530	0.394	-1.479
13,972.00	89.23	178.59	10,783.15	-3,468.70	164.43	3,469.33	0.619	-0.505	-0.358
14,067.00	88.56	178.26	10,784.98	-3,563.65	167.04	3,564.29	0.786	-0.705	-0.347
14,161.00	90.63	178.47	10,785.65	-3,657.60	169.72	3,658.25	2.213	2.202	0.223
14,260.00	91.05	179.88	10,784.19	-3,756.58	171.15	3,757.23	1.486	0.424	1.424
14,355.00	92.56	181.55	10,781.20	-3,851.52	169.96	3,852.17	2.369	1.589	1.758
14,449.00	92.59	181.77	10,776.98	-3,945.38	167.24	3,946.02	0.236	0.032	0.234
14,544.00	92.40	181.77	10,772.84	-4,040.25	164.31	4,040.87	0.200	-0.200	0.000
14,638.00	89.87	178.56	10,770.98	-4,134.21	164.04	4,134.83	4.347	-2.691	-3.415
14,732.00	90.10	179.22	10,771.01	-4,228.19	165.86	4,228.82	0.744	0.245	0.702
14,826.00	89.20	179.29	10,771.58	-4,322.18	167.09	4,322.82	0.960	-0.957	0.074
14,921.00	86.99	178.72	10,774.74	-4,417.11	168.73	4,417.75	2.402	-2.326	-0.600
15,014.00	89.79	179.60	10,777.35	-4,510.05	170.10	4,510.70	3.156	3.011	0.946
15,109.00	93.52	180.36	10,774.61	-4,604.99	170.13	4,605.64	4.007	3.926	0.800
15,204.00	91.58	179.02	10,770.38	-4,699.89	170.64	4,700.54	2.481	-2.042	-1.411
15,299.00	89.96	178.52	10,769.10	-4,794.86	172.68	4,795.51	1.785	-1.705	-0.526
15,394.00	91.11	180.22	10,768.22	-4,889.84	173.73	4,890.50	2.160	1.211	1.789
15,489.00	91.44	181.30	10,766.10	-4,984.81	172.47	4,985.46	1.188	0.347	1.137
15,583.00	91.42	180.82	10,763.76	-5,078.76	170.73	5,079.41	0.511	-0.021	-0.511
Tie on ST00									
15,671.00	87.94	181.84	10,764.25	-5,166.72	168.69	5,167.36	4.121	-3.955	1.159
First ST01 Svy									
15,767.00	88.30	183.75	10,767.40	-5,262.55	164.01	5,263.17	2.024	0.375	1.990
15,861.00	88.73	180.45	10,769.83	-5,356.44	160.57	5,357.05	3.539	0.457	-3.511
15,956.00	87.18	180.18	10,773.22	-5,451.38	160.04	5,451.98	1.656	-1.632	-0.284
16,050.00	90.04	181.02	10,775.50	-5,545.34	159.06	5,545.93	3.171	3.043	0.894



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,145.00	91.53	180.65	10,774.20	-5,640.31	157.68	5,640.90	1.616	1.568	-0.389
16,240.00	92.11	180.83	10,771.19	-5,735.26	156.45	5,735.84	0.639	0.611	0.189
16,334.00	92.68	180.38	10,767.26	-5,829.17	155.46	5,829.75	0.772	0.606	-0.479
16,428.00	90.91	180.00	10,764.31	-5,923.12	155.15	5,923.69	1.926	-1.883	-0.404
16,523.00	91.19	180.05	10,762.57	-6,018.10	155.10	6,018.68	0.299	0.295	0.053
16,616.00	90.69	179.54	10,761.05	-6,111.09	155.44	6,111.66	0.768	-0.538	-0.548
16,710.00	88.89	179.54	10,761.39	-6,205.08	156.19	6,205.66	1.915	-1.915	0.000
16,804.00	89.01	179.40	10,763.11	-6,299.06	157.06	6,299.64	0.196	0.128	-0.149
16,899.00	92.90	180.50	10,761.53	-6,394.03	157.14	6,394.61	4.255	4.095	1.158
16,994.00	89.03	178.43	10,759.93	-6,488.99	158.03	6,489.57	4.619	-4.074	-2.179
17,090.00	87.94	177.28	10,762.47	-6,584.88	161.62	6,585.48	1.650	-1.135	-1.198
17,184.00	88.47	178.55	10,765.41	-6,678.77	165.04	6,679.38	1.463	0.564	1.351
17,279.00	89.57	178.60	10,767.04	-6,773.73	167.40	6,774.35	1.159	1.158	0.053
17,372.00	88.11	179.65	10,768.92	-6,866.70	168.82	6,867.32	1.934	-1.570	1.129
17,467.00	87.10	179.68	10,772.89	-6,961.61	169.38	6,962.23	1.064	-1.063	0.032
17,561.00	87.13	180.74	10,777.62	-7,055.49	169.03	7,056.11	1.127	0.032	1.128
17,656.00	88.42	179.73	10,781.31	-7,150.41	168.65	7,151.03	1.724	1.358	-1.063
17,750.00	90.32	180.34	10,782.34	-7,244.40	168.59	7,245.02	2.123	2.021	0.649
17,845.00	90.52	180.43	10,781.65	-7,339.40	167.95	7,340.01	0.231	0.211	0.095
17,939.00	92.42	179.48	10,779.24	-7,433.36	168.02	7,433.98	2.260	2.021	-1.011
18,033.00	94.30	179.99	10,773.73	-7,527.19	168.46	7,527.81	2.072	2.000	0.543
18,127.00	92.76	178.60	10,767.94	-7,621.00	169.61	7,621.62	2.205	-1.638	-1.479
18,221.00	86.32	175.32	10,768.69	-7,714.81	174.59	7,715.45	7.688	-6.851	-3.489
18,316.00	87.97	177.13	10,773.43	-7,809.48	180.84	7,810.14	2.576	1.737	1.905
18,409.00	88.30	176.66	10,776.45	-7,902.29	185.87	7,902.97	0.617	0.355	-0.505
18,503.00	88.33	176.67	10,779.22	-7,996.09	191.34	7,996.79	0.034	0.032	0.011
18,597.00	91.41	178.95	10,779.43	-8,090.00	194.93	8,090.72	4.076	3.277	2.426
18,692.00	92.06	179.44	10,776.55	-8,184.95	196.27	8,185.67	0.857	0.684	0.516
18,787.00	92.28	178.90	10,772.96	-8,279.87	197.64	8,280.60	0.613	0.232	-0.568
18,881.00	91.19	178.21	10,770.11	-8,373.80	200.01	8,374.53	1.372	-1.160	-0.734
18,975.00	89.43	177.51	10,769.60	-8,467.72	203.52	8,468.47	2.015	-1.872	-0.745
19,070.00	88.61	177.13	10,771.23	-8,562.61	207.96	8,563.37	0.951	-0.863	-0.400
19,165.00	89.34	175.89	10,772.93	-8,657.41	213.74	8,658.20	1.514	0.768	-1.305
19,260.00	90.21	178.26	10,773.30	-8,752.28	218.59	8,753.09	2.657	0.916	2.495
19,355.00	91.83	180.33	10,771.61	-8,847.25	219.76	8,848.06	2.767	1.705	2.179
19,450.00	93.35	180.46	10,767.31	-8,942.15	219.11	8,942.95	1.606	1.600	0.137
19,545.00	91.47	179.84	10,763.32	-9,037.06	218.86	9,037.86	2.084	-1.979	-0.653
19,640.00	88.64	179.57	10,763.23	-9,132.05	219.35	9,132.85	2.992	-2.979	-0.284
19,735.00	87.97	178.75	10,766.04	-9,226.99	220.74	9,227.81	1.114	-0.705	-0.863
19,830.00	88.98	179.04	10,768.57	-9,321.94	222.57	9,322.76	1.106	1.063	0.305
19,925.00	93.40	181.82	10,766.59	-9,416.89	221.86	9,417.70	5.496	4.653	2.926
20,020.00	92.51	181.44	10,761.70	-9,511.72	219.16	9,512.52	1.018	-0.937	-0.400
20,114.00	93.49	180.98	10,756.78	-9,605.57	217.18	9,606.36	1.151	1.043	-0.489



Survey Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 20BD #121H
Project:	Eddy Co., NM (NAD 27 NME)	TVD Reference:	Well @ 3190.00usft (Nabors F34)
Site:	Poker Lake Unit 20BD #121H	MD Reference:	Well @ 3190.00usft (Nabors F34)
Well:	PLU 20BD #121H	North Reference:	Grid
Wellbore:	ST01 Drilling	Survey Calculation Method:	Minimum Curvature
Design:	ST01 Surveys	Database:	EDMRESTORED

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
20,209.00	89.96	179.24	10,753.92	-9,700.51	217.00	9,701.30	4.142	-3.716	-1.832
20,304.00	89.15	178.86	10,754.66	-9,795.49	218.57	9,796.29	0.942	-0.853	-0.400
20,399.00	90.24	179.67	10,755.16	-9,890.48	219.79	9,891.28	1.429	1.147	0.853
20,494.00	90.10	179.89	10,754.88	-9,985.48	220.16	9,986.28	0.274	-0.147	0.232
20,587.00	87.94	179.36	10,756.47	-10,078.46	220.76	10,079.26	2.391	-2.323	-0.570
20,682.00	90.04	180.58	10,758.14	-10,173.43	220.81	10,174.24	2.556	2.211	1.284
20,777.00	90.43	180.94	10,757.76	-10,268.42	219.55	10,269.22	0.559	0.411	0.379
20,873.00	90.57	180.66	10,756.92	-10,364.41	218.21	10,365.20	0.326	0.146	-0.292
20,967.00	89.90	179.88	10,756.53	-10,458.41	217.77	10,459.20	1.094	-0.713	-0.830
21,062.00	90.04	180.23	10,756.58	-10,553.41	217.68	10,554.20	0.397	0.147	0.368
21,131.48	91.19	180.27	10,755.84	-10,622.88	217.37	10,623.66	1.654	1.653	0.063
LTP - PLU 20BD #121H - L1r2									
21,157.00	91.61	180.29	10,755.21	-10,648.39	217.25	10,649.18	1.654	1.653	0.063
21,214.00	90.35	179.78	10,754.24	-10,705.38	217.21	10,706.17	2.385	-2.211	-0.895
Last ST01 Svy									
21,261.47	90.35	179.78	10,753.95	-10,752.85	217.39	10,753.64	0.000	0.000	0.000
BHL - PLU 20BD #121H - L1r2									
21,265.00	90.35	179.78	10,753.93	-10,756.38	217.41	10,757.17	0.000	0.000	0.000
Projection to ST01 BHL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,583.00	10,763.76	-5,078.76	170.73	Tie on ST00
15,671.00	10,764.25	-5,166.72	168.69	First ST01 Svy
21,214.00	10,754.24	-10,705.38	217.21	Last ST01 Svy
21,265.00	10,753.93	-10,756.38	217.41	Projection to ST01 BHL

Checked By: _____ Approved By: _____ Date: _____