

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

NMOCD Rec'd: 09/30/2020 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 30-015-45492	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 325596	⁵ Property Name POKER LAKE UNIT 20 BD	⁶ Well Number 701H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,162'

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	450	WEST	EDDY

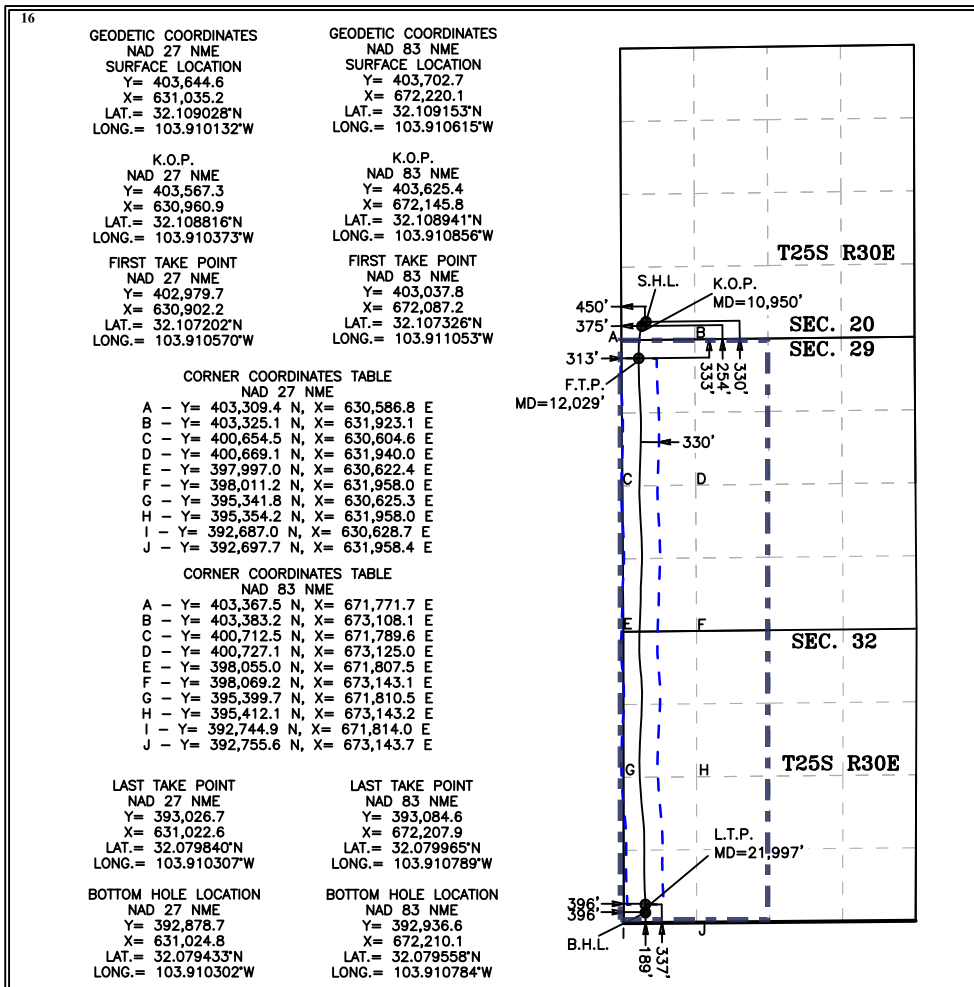
¹¹ Bottom Hole Location If Different From Surface

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		189	SOUTH	396	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cheryl Rowell 9/21/20
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.

6-22-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



RR

2017071046

Intent ☐ As Drilled ☒

API #
30-015-45492

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 20 BD	Well Number 701H
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Kick Off Point (KOP)

UL M	Section 20	Township 25S	Range 30E	Lot	Feet 254	From N/S S	Feet 375	From E/W W	County EDDY
Latitude 32.108941					Longitude 103.910856				NAD 83

First Take Point (FTP)

UL D	Section 29	Township 25S	Range 30E	Lot	Feet 333	From N/S N	Feet 313	From E/W W	County EDDY
Latitude 32.107326					Longitude 103.911053				NAD 83

Last Take Point (LTP)

UL M	Section 32	Township 25S	Range 30E	Lot	Feet 336	From N/S S	Feet 981	From E/W W	County EDDY
Latitude 32.079965					Longitude 103.910789				NAD 83

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

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
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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 05/27/19 thru 07/23/19 conduct or supervise the taking of a MWD Survey from a depth of 604' to a depth of 22081'; 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 161H FKA 701H API No. 30-015-45492 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 07:19:03 -
05'00'

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



XTO Energy

Eddy County, NM

PLU 20 Brushy Draw

PLU 20 Brushy Draw 161H [FKA 701H]

Wellbore #1

Survey: Scout MWD

Standard Survey Report

24 July, 2019



Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H] 1/5
Project:	Eddy County, NM	TVD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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 161H [FKA 701H] 1/5		
Well Position	+N/-S	0.00 usft	Northing: 403,644.58 usft
	+E/-W	0.00 usft	Easting: 631,035.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 32.501 N
		Longitude:	103° 54' 36.475 W
		Ground Level:	3,162.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	04/14/19	6.80	59.75	47,841.80000000

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)	Direction (°)	
	0.00	0.00	0.00	179.77	

Survey Program	Date	07/24/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
238.00	512.00	3rd party MWD (Wellbore #1)	MWD	MWD - Standard	
604.00	22,145.00	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)	
512.00	0.90	109.00	511.98	0.85	-1.20	-0.85	0.00	0.00	0.00	
604.00	1.14	109.04	603.97	0.31	0.35	-0.31	0.26	0.26	0.04	
First Scout MWD Survey @ 604.00' MD										
698.00	1.76	107.72	697.94	-0.43	2.61	0.44	0.66	0.66	-1.40	
779.00	2.11	104.03	778.89	-1.17	5.24	1.19	0.46	0.43	-4.56	
873.00	2.24	104.91	872.83	-2.07	8.70	2.10	0.14	0.14	0.94	
967.00	2.29	101.13	966.75	-2.90	12.31	2.95	0.17	0.05	-4.02	
1,061.00	2.55	97.27	1,060.67	-3.53	16.23	3.59	0.33	0.28	-4.11	
1,155.00	2.51	97.62	1,154.58	-4.07	20.35	4.15	0.05	-0.04	0.37	
1,249.00	1.63	128.47	1,248.52	-5.17	23.43	5.26	1.48	-0.94	32.82	

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H]
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Site:	PLU 20 Brushy Draw	MD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
1,343.00	1.32	151.76	1,342.49	-6.96	24.99	7.06	0.71	-0.33	24.78
1,438.00	1.23	152.81	1,437.46	-8.83	25.97	8.93	0.10	-0.09	1.11
1,532.00	0.75	186.65	1,531.45	-10.33	26.36	10.44	0.78	-0.51	36.00
1,628.00	2.42	286.05	1,627.42	-10.40	24.34	10.50	2.76	1.74	103.54
1,722.00	2.55	284.65	1,721.33	-9.32	20.41	9.40	0.15	0.14	-1.49
1,817.00	2.64	286.49	1,816.23	-8.17	16.27	8.23	0.13	0.09	1.94
1,912.00	2.90	286.41	1,911.12	-6.87	11.87	6.91	0.27	0.27	-0.08
2,006.00	2.90	285.00	2,005.00	-5.58	7.29	5.61	0.08	0.00	-1.50
2,100.00	1.49	279.73	2,098.93	-4.76	3.79	4.77	1.51	-1.50	-5.61
2,194.00	1.76	278.14	2,192.89	-4.35	1.15	4.35	0.29	0.29	-1.69
2,288.00	1.63	274.80	2,286.85	-4.03	-1.61	4.02	0.17	-0.14	-3.55
2,383.00	1.36	267.51	2,381.82	-3.97	-4.08	3.95	0.35	-0.28	-7.67
2,478.00	1.10	244.31	2,476.80	-4.41	-6.03	4.39	0.59	-0.27	-24.42
2,572.00	1.32	243.60	2,570.78	-5.28	-7.81	5.25	0.23	0.23	-0.76
2,665.00	1.49	243.08	2,663.75	-6.31	-9.85	6.27	0.18	0.18	-0.56
2,759.00	1.63	238.86	2,757.71	-7.55	-12.08	7.50	0.19	0.15	-4.49
2,854.00	1.89	236.92	2,852.67	-9.10	-14.55	9.05	0.28	0.27	-2.04
2,947.00	1.98	234.64	2,945.62	-10.87	-17.15	10.80	0.13	0.10	-2.45
3,041.00	2.02	231.03	3,039.56	-12.85	-19.76	12.77	0.14	0.04	-3.84
3,135.00	2.11	232.18	3,133.50	-14.96	-22.41	14.87	0.11	0.10	1.22
3,229.00	2.33	225.85	3,227.43	-17.35	-25.15	17.25	0.35	0.23	-6.73
3,324.00	2.51	221.54	3,322.34	-20.25	-27.92	20.14	0.27	0.19	-4.54
3,418.00	2.68	219.08	3,416.25	-23.50	-30.67	23.37	0.22	0.18	-2.62
3,458.00	2.77	219.43	3,456.20	-24.97	-31.87	24.84	0.23	0.23	0.88
3,607.00	2.77	223.92	3,605.03	-30.34	-36.65	30.20	0.15	0.00	3.01
3,702.00	2.86	222.60	3,699.91	-33.74	-39.85	33.58	0.12	0.09	-1.39
3,797.00	2.90	222.42	3,794.79	-37.26	-43.08	37.09	0.04	0.04	-0.19
3,891.00	3.43	234.20	3,888.65	-40.66	-46.96	40.47	0.89	0.56	12.53
3,986.00	4.70	257.23	3,983.42	-43.18	-53.06	42.97	2.15	1.34	24.24
4,080.00	4.88	275.95	4,077.09	-43.62	-60.80	43.38	1.67	0.19	19.91
4,175.00	3.78	281.13	4,171.82	-42.60	-67.89	42.32	1.23	-1.16	5.45
4,271.00	2.68	286.49	4,267.67	-41.35	-73.14	41.05	1.19	-1.15	5.58
4,364.00	1.93	308.47	4,360.59	-39.76	-76.46	39.45	1.23	-0.81	23.63
4,457.00	0.70	304.69	4,453.57	-38.46	-78.15	38.15	1.33	-1.32	-4.06
4,550.00	0.26	235.69	4,546.56	-38.26	-78.79	37.94	0.70	-0.47	-74.19
4,645.00	0.40	232.79	4,641.56	-38.58	-79.23	38.26	0.15	0.15	-3.05
4,739.00	0.35	274.28	4,735.56	-38.75	-79.78	38.43	0.29	-0.05	44.14
4,834.00	0.31	255.47	4,830.56	-38.80	-80.32	38.47	0.12	-0.04	-19.80
4,929.00	0.31	252.92	4,925.56	-38.94	-80.81	38.61	0.01	0.00	-2.68
5,024.00	0.48	279.81	5,020.56	-38.94	-81.45	38.62	0.26	0.18	28.31
5,118.00	0.40	287.55	5,114.55	-38.78	-82.15	38.45	0.11	-0.09	8.23
5,212.00	0.57	265.22	5,208.55	-38.72	-82.93	38.39	0.27	0.18	-23.76
5,306.00	0.66	276.30	5,302.54	-38.70	-83.93	38.36	0.16	0.10	11.79

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H]
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Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
5,400.00	0.53	285.18	5,396.54	-38.52	-84.89	38.18	0.17	-0.14	9.45
5,495.00	0.57	289.13	5,491.53	-38.26	-85.76	37.91	0.06	0.04	4.16
5,590.00	0.57	254.06	5,586.53	-38.23	-86.66	37.88	0.36	0.00	-36.92
5,684.00	0.57	285.70	5,680.53	-38.23	-87.56	37.88	0.33	0.00	33.66
5,779.00	0.53	277.62	5,775.52	-38.05	-88.45	37.69	0.09	-0.04	-8.51
5,873.00	0.66	266.02	5,869.52	-38.03	-89.42	37.67	0.19	0.14	-12.34
5,968.00	0.70	253.71	5,964.51	-38.23	-90.53	37.86	0.16	0.04	-12.96
6,062.00	0.92	228.31	6,058.50	-38.89	-91.64	38.52	0.44	0.23	-27.02
6,156.00	0.79	212.75	6,152.49	-39.94	-92.56	39.56	0.28	-0.14	-16.55
6,251.00	0.92	199.39	6,247.48	-41.21	-93.16	40.83	0.25	0.14	-14.06
6,346.00	0.88	48.22	6,342.48	-41.44	-92.87	41.07	1.84	-0.04	-159.13
6,441.00	1.05	53.23	6,437.46	-40.43	-91.63	40.06	0.20	0.18	5.27
6,535.00	1.14	45.85	6,531.44	-39.27	-90.27	38.90	0.18	0.10	-7.85
6,629.00	1.01	47.17	6,625.43	-38.05	-88.99	37.69	0.14	-0.14	1.40
6,724.00	1.10	65.27	6,720.41	-37.10	-87.55	36.75	0.36	0.09	19.05
6,818.00	1.01	64.48	6,814.40	-36.37	-85.98	36.02	0.10	-0.10	-0.84
6,912.00	0.97	70.90	6,908.38	-35.75	-84.48	35.41	0.13	-0.04	6.83
7,007.00	0.92	89.18	7,003.37	-35.47	-82.96	35.14	0.32	-0.05	19.24
7,100.00	1.01	83.64	7,096.36	-35.37	-81.40	35.05	0.14	0.10	-5.96
7,196.00	0.57	80.39	7,192.35	-35.20	-80.09	34.88	0.46	-0.46	-3.39
7,290.00	1.01	81.97	7,286.34	-35.01	-78.81	34.69	0.47	0.47	1.68
7,384.00	0.48	77.93	7,380.33	-34.81	-77.60	34.50	0.57	-0.56	-4.30
7,479.00	0.44	79.16	7,475.33	-34.66	-76.85	34.35	0.04	-0.04	1.29
7,573.00	0.53	116.86	7,569.32	-34.78	-76.11	34.48	0.35	0.10	40.11
7,667.00	0.66	177.51	7,663.32	-35.52	-75.70	35.22	0.65	0.14	64.52
7,762.00	0.40	169.16	7,758.32	-36.39	-75.61	36.09	0.28	-0.27	-8.79
7,856.00	0.62	221.63	7,852.31	-37.10	-75.89	36.79	0.52	0.23	55.82
7,951.00	1.01	210.47	7,947.30	-38.20	-76.66	37.89	0.44	0.41	-11.75
8,046.00	1.10	227.87	8,042.29	-39.54	-77.76	39.22	0.35	0.09	18.32
8,142.00	1.23	221.54	8,138.27	-40.93	-79.12	40.61	0.19	0.14	-6.59
8,237.00	1.67	227.43	8,233.24	-42.63	-80.82	42.30	0.49	0.46	6.20
8,331.00	2.07	230.16	8,327.19	-44.64	-83.13	44.31	0.44	0.43	2.90
8,426.00	1.76	245.71	8,422.13	-46.34	-85.78	45.99	0.63	-0.33	16.37
8,522.00	1.27	248.00	8,518.10	-47.34	-88.11	46.99	0.51	-0.51	2.39
8,616.00	1.05	234.02	8,612.08	-48.24	-89.77	47.88	0.38	-0.23	-14.87
8,711.00	1.54	258.46	8,707.06	-49.01	-91.73	48.64	0.77	0.52	25.73
8,804.00	1.54	272.52	8,800.02	-49.20	-94.20	48.82	0.41	0.00	15.12
8,898.00	1.80	271.64	8,893.98	-49.10	-96.94	48.71	0.28	0.28	-0.94
8,993.00	1.49	266.10	8,988.94	-49.15	-99.66	48.74	0.37	-0.33	-5.83
9,088.00	1.01	253.62	9,083.92	-49.47	-101.70	49.06	0.58	-0.51	-13.14
9,183.00	0.75	144.37	9,178.91	-50.21	-102.14	49.80	1.52	-0.27	-115.00
9,278.00	0.84	161.16	9,273.91	-51.37	-101.55	50.96	0.26	0.09	17.67
9,372.00	0.70	168.54	9,367.90	-52.59	-101.21	52.18	0.18	-0.15	7.85

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Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
9,465.00	1.10	148.07	9,460.89	-53.90	-100.63	53.50	0.55	0.43	-22.01
9,560.00	1.45	127.68	9,555.86	-55.41	-99.19	55.01	0.60	0.37	-21.46
9,655.00	2.07	132.42	9,650.82	-57.30	-96.98	56.91	0.67	0.65	4.99
9,750.00	2.02	145.17	9,745.76	-59.83	-94.75	59.45	0.48	-0.05	13.42
9,845.00	2.20	148.94	9,840.69	-62.77	-92.86	62.40	0.24	0.19	3.97
9,940.00	2.02	145.17	9,935.63	-65.71	-90.96	65.34	0.24	-0.19	-3.97
10,035.00	1.45	136.02	10,030.58	-67.94	-89.17	67.59	0.67	-0.60	-9.63
10,130.00	1.14	124.95	10,125.56	-69.35	-87.56	69.00	0.42	-0.33	-11.65
10,225.00	1.14	111.06	10,220.54	-70.23	-85.90	69.89	0.29	0.00	-14.62
10,320.00	1.14	112.29	10,315.52	-70.93	-84.15	70.59	0.03	0.00	1.29
10,414.00	1.27	115.72	10,409.50	-71.74	-82.34	71.41	0.16	0.14	3.65
10,508.00	1.23	114.05	10,503.48	-72.60	-80.48	72.28	0.06	-0.04	-1.78
10,602.00	1.19	113.79	10,597.46	-73.41	-78.67	73.09	0.04	-0.04	-0.28
10,696.00	1.19	131.28	10,691.44	-74.44	-77.04	74.13	0.38	0.00	18.61
10,808.00	0.90	125.36	10,803.42	-75.72	-75.45	75.42	0.28	-0.26	-5.29
10,902.00	0.29	122.65	10,897.41	-76.27	-74.65	75.97	0.65	-0.65	-2.88
10,997.00	2.35	170.32	10,992.39	-78.32	-74.12	78.03	2.28	2.17	50.18
11,035.00	4.50	184.13	11,030.32	-80.58	-74.09	80.28	6.02	5.66	36.34
11,092.00	6.77	188.22	11,087.04	-86.14	-74.74	85.84	4.04	3.98	7.18
11,140.00	8.24	198.97	11,134.63	-92.19	-76.26	91.88	4.22	3.06	22.40
11,187.00	7.63	201.27	11,181.18	-98.28	-78.49	97.97	1.46	-1.30	4.89
11,235.00	9.53	198.92	11,228.64	-105.01	-80.93	104.69	4.02	3.96	-4.90
11,282.00	13.68	197.57	11,274.67	-113.99	-83.87	113.66	8.85	8.83	-2.87
11,330.00	17.68	200.61	11,320.87	-126.23	-88.15	125.88	8.50	8.33	6.33
11,377.00	21.14	199.25	11,365.19	-140.92	-93.46	140.54	7.42	7.36	-2.89
11,434.00	27.70	192.48	11,417.08	-163.59	-99.72	163.19	12.50	11.51	-11.88
11,482.00	33.80	189.58	11,458.31	-187.67	-104.36	187.25	13.08	12.71	-6.04
11,529.00	41.33	189.23	11,495.54	-215.92	-109.03	215.48	16.03	16.02	-0.74
11,577.00	49.00	189.38	11,529.36	-249.48	-114.53	249.02	15.98	15.98	0.31
11,624.00	51.23	187.53	11,559.50	-285.15	-119.82	284.67	5.62	4.74	-3.94
11,672.00	55.63	185.90	11,588.09	-323.43	-124.31	322.93	9.56	9.17	-3.40
11,719.00	61.76	185.12	11,612.50	-363.38	-128.16	362.86	13.12	13.04	-1.66
11,767.00	68.55	183.18	11,632.66	-406.80	-131.29	406.27	14.61	14.15	-4.04
11,814.00	76.23	181.01	11,646.87	-451.53	-132.91	450.99	16.92	16.34	-4.62
11,862.00	81.66	179.47	11,656.07	-498.62	-133.10	498.08	11.74	11.31	-3.21
11,909.00	81.92	178.90	11,662.78	-545.13	-132.44	544.60	1.32	0.55	-1.21
12,008.00	93.13	181.45	11,667.05	-643.87	-132.75	643.34	11.61	11.32	2.58
12,103.00	91.44	179.89	11,663.26	-738.79	-133.86	738.24	2.42	-1.78	-1.64
12,198.00	92.00	179.78	11,660.41	-833.74	-133.58	833.20	0.60	0.59	-0.12
12,293.00	92.42	179.68	11,656.75	-928.67	-133.14	928.13	0.45	0.44	-0.11
12,387.00	89.34	176.83	11,655.30	-1,022.59	-130.27	1,022.06	4.46	-3.28	-3.03
12,481.00	87.66	176.88	11,657.76	-1,116.42	-125.12	1,115.91	1.79	-1.79	0.05
12,576.00	88.22	177.72	11,661.18	-1,211.25	-120.65	1,210.76	1.06	0.59	0.88
12,670.00	88.16	176.96	11,664.15	-1,305.10	-116.29	1,304.62	0.81	-0.06	-0.81

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H]
Project:	Eddy County, NM	TVD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
12,763.00	87.44	176.41	11,667.72	-1,397.88	-110.91	1,397.42	0.97	-0.77	-0.59
12,858.00	89.26	177.00	11,670.45	-1,492.68	-105.46	1,492.24	2.01	1.92	0.62
12,953.00	89.99	176.90	11,671.07	-1,587.54	-100.40	1,587.12	0.78	0.77	-0.11
13,048.00	90.52	177.55	11,670.65	-1,682.42	-95.80	1,682.03	0.88	0.56	0.68
13,142.00	89.87	178.80	11,670.33	-1,776.37	-92.81	1,775.99	1.50	-0.69	1.33
13,236.00	90.41	180.07	11,670.10	-1,870.37	-91.88	1,869.98	1.47	0.57	1.35
13,330.00	91.72	180.80	11,668.35	-1,964.35	-92.60	1,963.96	1.60	1.39	0.78
13,423.00	89.90	180.71	11,667.04	-2,057.32	-93.82	2,056.93	1.96	-1.96	-0.10
13,518.00	89.65	179.81	11,667.41	-2,152.32	-94.25	2,151.93	0.98	-0.26	-0.95
13,613.00	88.39	180.41	11,669.04	-2,247.30	-94.43	2,246.91	1.47	-1.33	0.63
13,707.00	89.15	183.49	11,671.05	-2,341.22	-97.63	2,340.81	3.37	0.81	3.28
13,801.00	90.32	181.60	11,671.49	-2,435.12	-101.81	2,434.69	2.36	1.24	-2.01
13,896.00	88.89	181.94	11,672.14	-2,530.07	-104.74	2,529.63	1.55	-1.51	0.36
13,991.00	89.26	182.51	11,673.68	-2,624.98	-108.43	2,624.53	0.72	0.39	0.60
14,086.00	91.27	181.64	11,673.24	-2,719.91	-111.87	2,719.44	2.31	2.12	-0.92
14,180.00	91.19	182.34	11,671.22	-2,813.83	-115.13	2,813.35	0.75	-0.09	0.74
14,275.00	90.66	180.92	11,669.69	-2,908.78	-117.83	2,908.28	1.60	-0.56	-1.49
14,370.00	93.12	182.02	11,666.55	-3,003.69	-120.27	3,003.18	2.84	2.59	1.16
14,464.00	89.62	180.36	11,664.31	-3,097.62	-122.22	3,097.11	4.12	-3.72	-1.77
14,559.00	84.94	177.45	11,668.82	-3,192.46	-120.41	3,191.95	5.80	-4.93	-3.06
14,652.00	88.47	177.70	11,674.16	-3,285.21	-116.48	3,284.72	3.81	3.80	0.27
14,747.00	91.58	177.78	11,674.12	-3,380.13	-112.74	3,379.65	3.27	3.27	0.08
14,841.00	90.63	176.41	11,672.31	-3,473.98	-107.97	3,473.52	1.77	-1.01	-1.46
14,935.00	90.29	175.24	11,671.55	-3,567.73	-101.13	3,567.30	1.30	-0.36	-1.24
15,030.00	91.50	176.34	11,670.07	-3,662.46	-94.16	3,662.05	1.72	1.27	1.16
15,124.00	89.15	177.15	11,669.53	-3,756.30	-88.82	3,755.91	2.64	-2.50	0.86
15,219.00	90.94	177.86	11,669.46	-3,851.20	-84.68	3,850.83	2.03	1.88	0.75
15,315.00	90.88	177.99	11,667.93	-3,947.13	-81.21	3,946.77	0.15	-0.06	0.14
15,409.00	91.64	178.01	11,665.87	-4,041.05	-77.93	4,040.70	0.81	0.81	0.02
15,504.00	91.11	177.91	11,663.59	-4,135.96	-74.55	4,135.63	0.57	-0.56	-0.11
15,599.00	92.26	179.36	11,660.79	-4,230.89	-72.29	4,230.56	1.95	1.21	1.53
15,694.00	93.71	181.36	11,655.85	-4,325.75	-72.88	4,325.42	2.60	1.53	2.11
15,788.00	95.60	182.04	11,648.22	-4,419.39	-75.66	4,419.05	2.14	2.01	0.72
15,823.00	94.36	182.35	11,645.18	-4,454.24	-76.99	4,453.89	3.65	-3.54	0.89
15,918.00	91.92	182.46	11,639.98	-4,549.00	-80.98	4,548.64	2.57	-2.57	0.12
16,012.00	89.87	182.40	11,638.51	-4,642.90	-84.96	4,642.52	2.18	-2.18	-0.06
16,107.00	89.12	183.77	11,639.35	-4,737.76	-90.07	4,737.36	1.64	-0.79	1.44
16,202.00	88.50	181.80	11,641.32	-4,832.62	-94.69	4,832.20	2.17	-0.65	-2.07
16,296.00	88.16	179.12	11,644.06	-4,926.57	-95.44	4,926.14	2.87	-0.36	-2.85
16,390.00	88.50	181.18	11,646.80	-5,020.52	-95.69	5,020.10	2.22	0.36	2.19
16,485.00	89.34	181.52	11,648.59	-5,115.48	-97.93	5,115.04	0.95	0.88	0.36
16,578.00	89.23	181.24	11,649.75	-5,208.44	-100.16	5,208.00	0.32	-0.12	-0.30
16,673.00	90.24	184.18	11,650.19	-5,303.32	-104.66	5,302.86	3.27	1.06	3.09

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H]
Project:	Eddy County, NM	TVD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
16,766.00	91.30	181.84	11,648.94	-5,396.18	-109.54	5,395.70	2.76	1.14	-2.52
16,861.00	90.60	182.17	11,647.36	-5,491.11	-112.86	5,490.61	0.81	-0.74	0.35
16,956.00	89.79	180.73	11,647.04	-5,586.07	-115.27	5,585.57	1.74	-0.85	-1.52
17,050.00	89.87	181.12	11,647.32	-5,680.06	-116.78	5,679.55	0.42	0.09	0.41
17,144.00	89.62	184.01	11,647.74	-5,773.96	-120.99	5,773.42	3.09	-0.27	3.07
17,239.00	89.59	179.12	11,648.39	-5,868.89	-123.58	5,868.35	5.15	-0.03	-5.15
17,333.00	90.04	180.34	11,648.70	-5,962.89	-123.14	5,962.34	1.38	0.48	1.30
17,427.00	90.29	177.93	11,648.43	-6,056.87	-121.72	6,056.33	2.58	0.27	-2.56
17,522.00	89.40	175.35	11,648.68	-6,151.70	-116.15	6,151.18	2.87	-0.94	-2.72
17,616.00	91.25	175.74	11,648.15	-6,245.41	-108.85	6,244.92	2.01	1.97	0.41
17,711.00	88.84	174.12	11,648.08	-6,340.02	-100.46	6,339.57	3.06	-2.54	-1.71
17,805.00	89.43	174.56	11,649.49	-6,433.55	-91.19	6,433.14	0.78	0.63	0.47
17,899.00	88.22	175.21	11,651.42	-6,527.16	-82.81	6,526.77	1.46	-1.29	0.69
17,943.00	88.36	176.21	11,652.74	-6,571.01	-79.52	6,570.64	2.29	0.32	2.27
18,006.00	88.00	177.30	11,654.74	-6,633.88	-75.96	6,633.52	1.82	-0.57	1.73
18,101.00	86.62	179.94	11,659.20	-6,728.74	-73.67	6,728.39	3.13	-1.45	2.78
18,195.00	85.86	178.82	11,665.36	-6,822.53	-72.66	6,822.18	1.44	-0.81	-1.19
18,289.00	88.95	181.22	11,669.62	-6,916.41	-72.69	6,916.07	4.16	3.29	2.55
18,382.00	89.96	182.70	11,670.50	-7,009.35	-75.87	7,008.99	1.93	1.09	1.59
18,477.00	89.68	182.05	11,670.80	-7,104.27	-79.81	7,103.89	0.74	-0.29	-0.68
18,571.00	92.00	184.29	11,669.42	-7,198.10	-85.00	7,197.70	3.43	2.47	2.38
18,666.00	92.17	184.24	11,665.96	-7,292.78	-92.06	7,292.35	0.19	0.18	-0.05
18,760.00	89.20	181.51	11,664.84	-7,386.63	-96.78	7,386.18	4.29	-3.16	-2.90
18,854.00	90.60	182.87	11,665.00	-7,480.56	-100.37	7,480.09	2.08	1.49	1.45
18,949.00	90.46	183.61	11,664.13	-7,575.40	-105.74	7,574.92	0.79	-0.15	0.78
19,044.00	89.96	181.71	11,663.78	-7,670.29	-110.15	7,669.79	2.07	-0.53	-2.00
19,138.00	89.09	181.47	11,664.56	-7,764.25	-112.75	7,763.74	0.96	-0.93	-0.26
19,233.00	89.87	182.79	11,665.42	-7,859.18	-116.29	7,858.65	1.61	0.82	1.39
19,328.00	91.39	181.53	11,664.37	-7,954.10	-119.87	7,953.56	2.08	1.60	-1.33
19,424.00	88.92	179.97	11,664.11	-8,050.08	-121.12	8,049.53	3.04	-2.57	-1.63
19,518.00	93.57	178.28	11,662.07	-8,144.02	-119.69	8,143.48	5.26	4.95	-1.80
19,613.00	93.77	177.87	11,655.99	-8,238.77	-116.50	8,238.24	0.48	0.21	-0.43
19,710.00	93.24	176.60	11,650.06	-8,335.48	-111.83	8,334.96	1.42	-0.55	-1.31
19,804.00	91.47	176.12	11,646.20	-8,429.20	-105.87	8,428.71	1.95	-1.88	-0.51
19,900.00	90.41	177.43	11,644.62	-8,525.04	-100.47	8,524.56	1.76	-1.10	1.36
19,995.00	88.25	175.86	11,645.74	-8,619.86	-94.91	8,619.41	2.81	-2.27	-1.65
20,089.00	87.35	174.52	11,649.34	-8,713.45	-87.04	8,713.03	1.72	-0.96	-1.43
20,184.00	86.71	174.11	11,654.27	-8,807.86	-77.64	8,807.48	0.80	-0.67	-0.43
20,279.00	89.79	174.08	11,657.17	-8,902.30	-67.87	8,901.96	3.24	3.24	-0.03
20,373.00	89.96	175.08	11,657.37	-8,995.88	-58.99	8,995.57	1.08	0.18	1.06
20,468.00	87.72	174.59	11,659.29	-9,090.47	-50.44	9,090.19	2.41	-2.36	-0.52
20,562.00	87.94	175.03	11,662.85	-9,184.01	-41.95	9,183.77	0.52	0.23	0.47
20,656.00	87.38	175.95	11,666.69	-9,277.64	-34.56	9,277.43	1.15	-0.60	0.98

Company:	XTO Energy	Local Co-ordinate Reference:	Well PLU 20 Brushy Draw 161H [FKA 701H]
Project:	Eddy County, NM	TVD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Site:	PLU 20 Brushy Draw	MD Reference:	GL 3162' + 31' KB @ 3193.00usft (Nabors F34)
Well:	PLU 20 Brushy Draw 161H [FKA 701H]	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)
20,752.00	91.11	179.81	11,667.96	-9,373.53	-31.01	9,373.33	5.59	3.89	4.02
20,847.00	91.44	179.74	11,665.84	-9,468.51	-30.64	9,468.31	0.36	0.35	-0.07
20,942.00	89.40	180.37	11,665.15	-9,563.50	-30.73	9,563.30	2.25	-2.15	0.66
21,037.00	90.60	181.10	11,665.15	-9,658.49	-31.95	9,658.29	1.48	1.26	0.77
21,131.00	90.38	180.42	11,664.34	-9,752.48	-33.20	9,752.27	0.76	-0.23	-0.72
21,227.00	91.89	180.20	11,662.44	-9,848.46	-33.71	9,848.24	1.59	1.57	-0.23
21,322.00	91.64	179.38	11,659.52	-9,943.41	-33.37	9,943.20	0.90	-0.26	-0.86
21,416.00	91.36	180.15	11,657.06	-10,037.38	-32.98	10,037.16	0.87	-0.30	0.82
21,511.00	90.66	178.40	11,655.38	-10,132.35	-31.78	10,132.14	1.98	-0.74	-1.84
21,606.00	89.51	177.20	11,655.24	-10,227.28	-28.13	10,227.08	1.75	-1.21	-1.26
21,700.00	89.68	176.54	11,655.90	-10,321.13	-23.00	10,320.96	0.73	0.18	-0.70
21,796.00	90.83	177.15	11,655.48	-10,416.98	-17.72	10,416.83	1.36	1.20	0.64
21,891.00	88.50	178.50	11,656.03	-10,511.91	-14.11	10,511.76	2.83	-2.45	1.42
21,986.00	89.68	179.86	11,657.54	-10,606.88	-12.75	10,606.74	1.90	1.24	1.43
22,081.00	89.76	178.83	11,658.01	-10,701.87	-11.67	10,701.74	1.09	0.08	-1.08
Last Scout MWD Survey @ 22081.00' MD									
22,145.00	89.76	178.83	11,658.27	-10,765.86	-10.36	10,765.73	0.00	0.00	0.00
Projection to Bit @ 22145.00' MD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
604.00	603.97	0.31	0.35	First Scout MWD Survey @ 604.00' MD
22,081.00	11,658.01	-10,701.87	-11.67	Last Scout MWD Survey @ 22081.00' MD
22,145.00	11,658.27	-10,765.86	-10.36	Projection to Bit @ 22145.00' MD

Checked By: _____	Approved By: _____	Date: _____
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