



XTO ENERGY, INC.

Eddy County, NM

Sec 34, T19S, R31E

Big Eddy Unit D12 #323H

Wellbore #1

Design: Wellbore #1

QES Survey Report

29 November, 2018

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DISTRICT II-ARTESIA O.C.D.



Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Big Eddy Unit DI2 #323H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3485.5usft (Trinidad #445)
Site:	Sec 34, T19S, R31E	MD Reference:	RKB @ 3485.5usft (Trinidad #445)
Well:	Big Eddy Unit DI2 #323H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 34, T19S, R31E		
Site Position:		Northing:	590,421.20 usft
From:	Map	Easting:	648,016.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 37' 20.105 N
		Longitude:	103° 51' 9.293 W
		Grid Convergence:	0.26 °

Well	Big Eddy Unit DI2 #323H		
Well Position	+N/-S	0.0 usft	Northing: 590,421.20 usft
	+E/-W	0.0 usft	Easting: 648,016.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 37' 20.105 N
		Longitude:	103° 51' 9.293 W
		Ground Level:	3,469.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/31/2018	6.97	60.36	48,002.49516412

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	272.75	

Survey Program	Date 11/29/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
112.0	2,081.0	Ultra Surface Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	
2,244.0	14,685.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
112.0	0.70	350.50	112.0	0.7	-0.1	0.1	0.63	0.63	0.00
201.0	1.00	326.10	201.0	1.9	-0.6	0.7	0.52	0.34	-27.42
290.0	1.90	345.50	290.0	3.9	-1.4	1.6	1.14	1.01	21.80
381.0	2.10	8.70	380.9	7.0	-1.6	1.9	0.91	0.22	25.49
469.0	2.80	9.30	468.8	10.8	-1.0	1.5	0.80	0.80	0.68
557.0	3.20	11.90	556.7	15.3	-0.1	0.9	0.48	0.45	2.95
652.0	3.20	19.40	651.6	20.4	1.3	-0.3	0.44	0.00	7.89
715.0	3.60	17.40	714.4	23.9	2.5	-1.3	0.66	0.63	-3.17
778.0	4.00	15.40	777.3	27.9	3.7	-2.3	0.67	0.63	-3.17

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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)
905.0	4.30	13.00	904.0	36.8	5.9	-4.1	0.27	0.24	-1.89
1,071.0	4.60	7.60	1,069.5	49.5	8.2	-5.8	0.31	0.18	-3.25
1,198.0	3.50	24.10	1,196.2	58.1	10.4	-7.6	1.25	-0.87	12.99
1,324.0	2.70	41.30	1,322.0	63.8	14.0	-10.9	0.97	-0.63	13.65
1,450.0	3.40	43.40	1,447.8	68.8	18.5	-15.2	0.56	0.56	1.67
1,577.0	3.30	51.70	1,574.6	73.8	24.0	-20.4	0.39	-0.08	6.54
1,703.0	2.60	57.80	1,700.4	77.5	29.2	-25.5	0.61	-0.56	4.84
1,829.0	3.10	49.90	1,826.3	81.3	34.2	-30.3	0.50	0.40	-6.27
1,955.0	3.90	59.10	1,952.0	85.7	40.5	-36.4	0.77	0.63	7.30
MWD Tie-in @ 2081.0' MD / 2077.8' TVD									
2,081.0	3.60	49.20	2,077.8	90.4	47.2	-42.8	0.57	-0.24	-7.86
2,244.0	4.60	52.10	2,240.3	97.8	56.2	-51.5	0.63	0.61	1.78
2,307.0	3.60	45.70	2,303.2	100.7	59.6	-54.7	1.74	-1.59	-10.16
2,370.0	2.20	11.00	2,366.1	103.3	61.3	-56.3	3.47	-2.22	-55.08
2,434.0	2.60	339.60	2,430.0	105.9	61.0	-55.9	2.12	0.63	-49.06
2,496.0	2.50	342.40	2,492.0	108.5	60.1	-54.8	0.26	-0.16	4.52
2,559.0	2.50	346.00	2,554.9	111.1	59.4	-54.0	0.25	0.00	5.71
2,623.0	2.50	345.90	2,618.9	113.8	58.7	-53.2	0.01	0.00	-0.16
2,686.0	2.50	350.40	2,681.8	116.5	58.1	-52.5	0.31	0.00	7.14
2,748.0	2.40	352.90	2,743.7	119.1	57.7	-52.0	0.24	-0.16	4.03
2,811.0	2.60	351.20	2,806.7	121.9	57.4	-51.4	0.34	0.32	-2.70
2,875.0	2.50	349.30	2,870.6	124.7	56.9	-50.8	0.20	-0.16	-2.97
2,938.0	2.50	353.30	2,933.6	127.4	56.5	-50.3	0.28	0.00	6.35
3,002.0	2.50	353.90	2,997.5	130.1	56.1	-49.8	0.04	0.00	0.94
3,065.0	2.30	358.00	3,060.4	132.8	56.0	-49.5	0.42	-0.32	6.51
3,128.0	2.30	359.80	3,123.4	135.3	55.9	-49.4	0.11	0.00	2.86
3,191.0	2.20	2.00	3,186.3	137.8	55.9	-49.3	0.21	-0.16	3.49
3,254.0	2.30	9.50	3,249.3	140.2	56.2	-49.4	0.49	0.16	11.90
3,317.0	2.60	9.70	3,312.2	142.9	56.6	-49.7	0.48	0.48	0.32
3,380.0	2.90	10.60	3,375.2	145.9	57.2	-50.1	0.48	0.48	1.43
3,443.0	2.90	7.10	3,438.1	149.0	57.7	-50.5	0.28	0.00	-5.56
3,507.0	2.90	11.00	3,502.0	152.2	58.2	-50.8	0.31	0.00	6.09
3,569.0	2.90	21.50	3,563.9	155.2	59.1	-51.5	0.86	0.00	16.94
3,633.0	3.00	27.20	3,627.8	158.2	60.4	-52.8	0.48	0.16	8.91
3,696.0	2.90	19.30	3,690.8	161.2	61.7	-53.9	0.66	-0.16	-12.54
3,759.0	3.00	2.10	3,753.7	164.3	62.3	-54.3	1.41	0.16	-27.30
3,822.0	2.90	359.90	3,816.6	167.6	62.3	-54.2	0.24	-0.16	-3.49
3,885.0	3.10	2.40	3,879.5	170.9	62.4	-54.1	0.38	0.32	3.97
3,948.0	3.30	2.90	3,942.4	174.4	62.6	-54.1	0.32	0.32	0.79
4,012.0	3.20	2.00	4,006.3	178.0	62.7	-54.1	0.18	-0.16	-1.41
4,075.0	3.20	358.40	4,069.2	181.5	62.7	-54.0	0.32	0.00	-5.71
4,138.0	3.30	357.40	4,132.1	185.1	62.6	-53.7	0.18	0.16	-1.59
4,201.0	3.10	353.40	4,195.0	188.6	62.3	-53.2	0.48	-0.32	-6.35

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4,264.0	3.00	354.90	4,257.9	191.9	62.0	-52.7	0.20	-0.16	2.38
4,285.0	2.90	355.50	4,278.9	193.0	61.9	-52.6	0.50	-0.48	2.86
4,383.0	3.10	351.10	4,376.8	198.1	61.3	-51.7	0.31	0.20	-4.49
4,446.0	2.20	340.50	4,439.7	200.9	60.6	-50.9	1.62	-1.43	-16.83
4,509.0	1.50	323.60	4,502.7	202.7	59.7	-49.9	1.40	-1.11	-26.83
4,572.0	1.80	326.50	4,565.6	204.2	58.7	-48.8	0.49	0.48	4.60
4,635.0	1.80	328.40	4,628.6	205.9	57.6	-47.7	0.09	0.00	3.02
4,699.0	1.80	328.90	4,692.6	207.6	56.6	-46.6	0.02	0.00	0.78
4,762.0	1.80	327.70	4,755.5	209.3	55.5	-45.4	0.06	0.00	-1.90
4,825.0	1.80	329.90	4,818.5	211.0	54.5	-44.3	0.11	0.00	3.49
4,888.0	1.80	328.30	4,881.5	212.7	53.5	-43.2	0.08	0.00	-2.54
4,951.0	1.90	327.30	4,944.4	214.4	52.4	-42.1	0.17	0.16	-1.59
5,014.0	1.30	313.80	5,007.4	215.8	51.3	-40.9	1.12	-0.95	-21.43
5,077.0	0.80	293.40	5,070.4	216.4	50.4	-40.0	0.98	-0.79	-32.38
5,141.0	1.10	317.50	5,134.4	217.1	49.6	-39.1	0.77	0.47	37.66
5,204.0	1.50	332.00	5,197.4	218.2	48.8	-38.3	0.82	0.63	23.02
5,267.0	1.60	332.20	5,260.4	219.7	48.0	-37.4	0.16	0.16	0.32
5,330.0	1.40	331.60	5,323.3	221.2	47.2	-36.6	0.32	-0.32	-0.95
5,393.0	1.50	351.70	5,386.3	222.7	46.7	-36.0	0.82	0.16	31.90
5,457.0	1.80	7.80	5,450.3	224.5	46.8	-35.9	0.86	0.47	25.16
5,520.0	1.80	2.90	5,513.3	226.5	46.9	-36.0	0.24	0.00	-7.78
5,584.0	1.80	3.00	5,577.2	228.5	47.0	-36.0	0.00	0.00	0.16
5,647.0	1.80	3.40	5,640.2	230.5	47.2	-36.0	0.02	0.00	0.63
5,710.0	1.70	337.30	5,703.2	232.3	46.9	-35.7	1.26	-0.16	-41.43
5,773.0	1.90	322.20	5,766.1	234.0	45.9	-34.6	0.81	0.32	-23.97
5,837.0	1.40	338.40	5,830.1	235.6	44.9	-33.6	1.06	-0.78	25.31
5,900.0	1.20	357.00	5,893.1	236.9	44.6	-33.2	0.74	-0.32	29.52
5,962.0	1.30	349.00	5,955.1	238.3	44.4	-32.9	0.32	0.16	-12.90
6,026.0	1.30	347.70	6,019.1	239.7	44.1	-32.6	0.05	0.00	-2.03
6,089.0	1.20	349.00	6,082.0	241.0	43.9	-32.2	0.16	-0.16	2.06
6,152.0	1.30	348.40	6,145.0	242.4	43.6	-31.9	0.16	0.16	-0.95
6,215.0	1.30	350.10	6,208.0	243.8	43.3	-31.6	0.06	0.00	2.70
6,279.0	1.30	349.90	6,272.0	245.2	43.1	-31.3	0.01	0.00	-0.31
6,342.0	1.30	350.50	6,335.0	246.6	42.8	-30.9	0.02	0.00	0.95
6,405.0	1.40	349.90	6,398.0	248.1	42.6	-30.6	0.16	0.16	-0.95
6,468.0	1.40	355.00	6,460.9	249.6	42.4	-30.3	0.20	0.00	8.10
6,532.0	1.40	354.60	6,524.9	251.2	42.2	-30.1	0.02	0.00	-0.63
6,595.0	1.50	356.70	6,587.9	252.8	42.1	-29.9	0.18	0.16	3.33
6,658.0	1.50	356.30	6,650.9	254.4	42.0	-29.8	0.02	0.00	-0.63
6,721.0	1.50	352.80	6,713.9	256.1	41.9	-29.5	0.15	0.00	-5.56
6,784.0	1.50	351.00	6,776.8	257.7	41.6	-29.2	0.07	0.00	-2.86
6,847.0	1.60	352.10	6,839.8	259.4	41.4	-28.9	0.17	0.16	1.75
6,910.0	1.60	353.40	6,902.8	261.1	41.1	-28.6	0.06	0.00	2.06

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6,973.0	1.60	351.10	6,965.8	262.9	40.9	-28.3	0.10	0.00	-3.65	
7,037.0	1.50	355.80	7,029.7	264.6	40.7	-28.0	0.25	-0.16	7.34	
7,100.0	1.40	351.30	7,092.7	266.2	40.5	-27.7	0.24	-0.16	-7.14	
7,163.0	1.30	349.60	7,155.7	267.6	40.3	-27.4	0.17	-0.16	-2.70	
7,226.0	1.10	344.40	7,218.7	268.9	40.0	-27.1	0.36	-0.32	-8.25	
7,289.0	0.90	336.90	7,281.7	269.9	39.6	-26.6	0.38	-0.32	-11.90	
7,352.0	0.80	333.50	7,344.7	270.8	39.3	-26.2	0.18	-0.16	-5.40	
7,415.0	1.00	4.20	7,407.7	271.7	39.1	-26.0	0.82	0.32	48.73	
7,478.0	1.10	19.30	7,470.7	272.9	39.3	-26.2	0.47	0.16	23.97	
7,541.0	0.90	1.70	7,533.7	273.9	39.6	-26.4	0.58	-0.32	-27.94	
7,604.0	1.20	338.00	7,596.6	275.0	39.3	-26.1	0.83	0.48	-37.62	
7,668.0	1.10	327.30	7,660.6	276.2	38.7	-25.4	0.37	-0.16	-16.72	
7,731.0	1.00	342.30	7,723.6	277.2	38.2	-24.9	0.46	-0.16	23.81	
7,794.0	1.00	334.50	7,786.6	278.2	37.8	-24.4	0.22	0.00	-12.38	
7,878.0	6.40	301.10	7,870.4	281.3	33.5	-20.0	6.66	6.43	-39.76	
7,909.0	11.70	299.20	7,901.0	283.7	29.3	-15.6	17.12	17.10	-6.13	
7,941.0	16.70	298.10	7,932.0	287.5	22.4	-8.6	15.65	15.63	-3.44	
7,972.0	21.00	297.30	7,961.4	292.1	13.5	0.5	13.90	13.87	-2.58	
8,004.0	24.30	296.20	7,990.9	297.7	2.5	11.8	10.40	10.31	-3.44	
8,035.0	27.70	294.30	8,018.7	303.4	-9.8	24.3	11.29	10.97	-6.13	
8,067.0	30.80	291.20	8,046.7	309.5	-24.2	39.0	10.78	9.69	-9.69	
8,098.0	32.40	286.20	8,073.1	314.7	-39.6	54.6	9.90	5.16	-16.13	
8,130.0	33.40	280.90	8,099.9	318.7	-56.5	71.7	9.52	3.13	-16.56	
8,161.0	34.90	275.60	8,125.6	321.2	-73.7	89.0	10.74	4.84	-17.10	
8,193.0	37.00	271.70	8,151.5	322.4	-92.4	107.8	9.71	6.56	-12.19	
8,225.0	39.90	270.30	8,176.6	322.7	-112.3	127.7	9.46	9.06	-4.38	
8,256.0	42.30	270.70	8,199.9	322.9	-132.7	148.0	7.79	7.74	1.29	
8,288.0	45.00	270.80	8,223.1	323.2	-154.8	170.1	8.44	8.44	0.31	
8,319.0	47.20	270.90	8,244.6	323.5	-177.1	192.4	7.10	7.10	0.32	
8,351.0	50.00	270.60	8,265.7	323.8	-201.1	216.4	8.78	8.75	-0.94	
8,383.0	53.00	270.60	8,285.6	324.1	-226.1	241.4	9.38	9.38	0.00	
8,414.0	56.00	270.40	8,303.6	324.3	-251.4	266.6	9.69	9.68	-0.65	
8,446.0	58.60	270.80	8,320.9	324.6	-278.3	293.5	8.19	8.13	1.25	
8,477.0	61.10	271.00	8,336.5	325.0	-305.1	320.3	8.08	8.06	0.65	
8,509.0	63.30	270.80	8,351.4	325.5	-333.4	348.6	6.90	6.88	-0.63	
8,540.0	65.10	270.90	8,364.9	325.9	-361.3	376.5	5.81	5.81	0.32	
8,572.0	67.60	270.10	8,377.8	326.1	-390.6	405.8	8.14	7.81	-2.50	
8,604.0	70.80	269.30	8,389.1	326.0	-420.5	435.7	10.27	10.00	-2.50	
8,635.0	73.00	269.10	8,398.7	325.6	-450.0	465.1	7.12	7.10	-0.65	
8,667.0	75.10	268.90	8,407.5	325.0	-480.7	495.8	6.59	6.56	-0.63	
8,699.0	77.20	269.00	8,415.2	324.5	-511.8	526.8	6.57	6.56	0.31	
8,730.0	80.30	269.90	8,421.2	324.2	-542.2	557.1	10.40	10.00	2.90	
8,762.0	82.50	270.60	8,426.0	324.3	-573.8	588.7	7.21	6.88	2.19	
8,793.0	85.40	271.40	8,429.3	324.8	-604.7	619.6	9.70	9.35	2.58	

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Big Eddy Unit D12 #323H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3485.5usft (Trinidad #445)
Site:	Sec 34, T19S, R31E	MD Reference:	RKB @ 3485.5usft (Trinidad #445)
Well:	Big Eddy Unit D12 #323H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,825.0	87.70	271.70	8,431.2	325.7	-636.6	651.5	7.25	7.19	0.94
8,888.0	89.60	271.00	8,432.7	327.2	-699.6	714.4	3.21	3.02	-1.11
8,951.0	91.10	269.50	8,432.3	327.5	-762.5	777.4	3.37	2.38	-2.38
9,015.0	90.70	269.10	8,431.3	326.7	-826.5	841.3	0.88	-0.63	-0.63
9,078.0	90.30	268.40	8,430.8	325.3	-889.5	904.1	1.28	-0.63	-1.11
9,141.0	89.80	267.80	8,430.7	323.2	-952.5	966.9	1.24	-0.79	-0.95
9,204.0	89.90	267.80	8,430.9	320.8	-1,015.4	1,029.7	0.16	0.16	0.00
9,267.0	90.90	269.80	8,430.4	319.5	-1,078.4	1,092.5	3.55	1.59	3.17
9,330.0	90.50	269.30	8,429.7	319.0	-1,141.4	1,155.4	1.02	-0.63	-0.79
9,393.0	90.20	268.70	8,429.3	317.9	-1,204.4	1,218.3	1.06	-0.48	-0.95
9,457.0	90.10	268.40	8,429.1	316.3	-1,268.4	1,282.1	0.49	-0.16	-0.47
9,520.0	90.00	268.30	8,429.1	314.5	-1,331.4	1,344.9	0.22	-0.16	-0.16
9,583.0	92.40	270.60	8,427.7	313.8	-1,394.3	1,407.8	5.28	3.81	3.65
9,646.0	92.40	270.40	8,425.1	314.4	-1,457.3	1,470.7	0.32	0.00	-0.32
9,709.0	92.60	270.10	8,422.4	314.7	-1,520.2	1,533.6	0.57	0.32	-0.48
9,772.0	92.80	269.70	8,419.4	314.6	-1,583.1	1,596.4	0.71	0.32	-0.63
9,835.0	92.70	269.50	8,416.4	314.1	-1,646.1	1,659.2	0.35	-0.16	-0.32
9,899.0	92.20	269.20	8,413.6	313.4	-1,710.0	1,723.1	0.91	-0.78	-0.47
9,962.0	91.90	269.10	8,411.4	312.5	-1,773.0	1,785.9	0.50	-0.48	-0.16
10,026.0	91.90	268.50	8,409.3	311.1	-1,836.9	1,849.7	0.94	0.00	-0.94
10,089.0	91.20	268.40	8,407.5	309.4	-1,899.9	1,912.5	1.12	-1.11	-0.16
10,152.0	90.30	269.10	8,406.7	308.0	-1,962.8	1,975.4	1.81	-1.43	1.11
10,215.0	89.90	268.50	8,406.6	306.7	-2,025.8	2,038.2	1.14	-0.63	-0.95
10,279.0	89.60	268.10	8,406.9	304.8	-2,089.8	2,102.0	0.78	-0.47	-0.63
10,342.0	90.00	267.30	8,407.1	302.3	-2,152.7	2,164.8	1.42	0.63	-1.27
10,405.0	90.40	267.50	8,406.9	299.4	-2,215.7	2,227.5	0.71	0.63	0.32
10,468.0	90.80	269.60	8,406.2	297.8	-2,278.6	2,290.3	3.39	0.63	3.33
10,532.0	90.30	269.20	8,405.6	297.2	-2,342.6	2,354.2	1.00	-0.78	-0.63
10,595.0	90.20	269.10	8,405.3	296.2	-2,405.6	2,417.1	0.22	-0.16	-0.16
10,658.0	90.30	268.80	8,405.1	295.1	-2,468.6	2,479.9	0.50	0.16	-0.48
10,721.0	89.90	271.40	8,405.0	295.2	-2,531.6	2,542.9	4.18	-0.63	4.13
10,784.0	92.10	271.50	8,403.9	296.8	-2,594.6	2,605.8	3.50	3.49	0.16
10,847.0	93.40	271.30	8,400.8	298.3	-2,657.5	2,668.7	2.09	2.06	-0.32
10,911.0	92.10	270.40	8,397.8	299.3	-2,721.4	2,732.6	2.47	-2.03	-1.41
10,974.0	91.10	269.80	8,396.0	299.4	-2,784.4	2,795.5	1.85	-1.59	-0.95
11,037.0	91.10	269.50	8,394.8	299.0	-2,847.4	2,858.4	0.48	0.00	-0.48
11,100.0	90.90	269.60	8,393.7	298.5	-2,910.4	2,921.3	0.35	-0.32	0.16
11,163.0	91.20	269.60	8,392.5	298.1	-2,973.3	2,984.2	0.48	0.48	0.00
11,226.0	91.40	268.90	8,391.1	297.2	-3,036.3	3,047.1	1.16	0.32	-1.11
11,289.0	91.40	267.90	8,389.6	295.5	-3,099.3	3,109.9	1.59	0.00	-1.59
11,353.0	91.30	268.30	8,388.1	293.4	-3,163.2	3,173.7	0.64	-0.16	0.63
11,416.0	90.80	270.00	8,386.9	292.4	-3,226.2	3,236.5	2.81	-0.79	2.70
11,479.0	91.20	269.30	8,385.8	292.0	-3,289.2	3,299.4	1.28	0.63	-1.11

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Big Eddy Unit D12 #323H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3485.5usft (Trinidad #445)
Site:	Sec 34, T19S, R31E	MD Reference:	RKB @ 3485.5usft (Trinidad #445)
Well:	Big Eddy Unit D12 #323H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,543.0	91.10	269.60	8,384.5	291.4	-3,353.2	3,363.3	0.49	-0.16	0.47
11,606.0	91.90	271.60	8,382.9	292.1	-3,416.1	3,426.2	3.42	1.27	3.17
11,669.0	92.10	271.50	8,380.7	293.8	-3,479.1	3,489.2	0.35	0.32	-0.16
11,732.0	91.80	271.30	8,378.5	295.3	-3,542.0	3,552.1	0.57	-0.48	-0.32
11,795.0	91.80	271.10	8,376.6	296.7	-3,605.0	3,615.1	0.32	0.00	-0.32
11,859.0	92.10	271.70	8,374.4	298.2	-3,668.9	3,679.0	1.05	0.47	0.94
11,922.0	91.70	272.40	8,372.3	300.5	-3,731.9	3,742.0	1.28	-0.63	1.11
11,985.0	92.10	272.20	8,370.2	303.0	-3,794.8	3,804.9	0.71	0.63	-0.32
12,047.0	92.20	272.00	8,367.9	305.3	-3,856.7	3,866.9	0.36	0.16	-0.32
12,110.0	91.70	272.10	8,365.7	307.5	-3,919.6	3,929.8	0.81	-0.79	0.16
12,173.0	90.20	271.70	8,364.7	309.6	-3,982.6	3,992.8	2.46	-2.38	-0.63
12,236.0	90.10	271.70	8,364.5	311.5	-4,045.5	4,055.8	0.16	-0.16	0.00
12,299.0	90.00	271.30	8,364.5	313.1	-4,108.5	4,118.8	0.65	-0.16	-0.63
12,362.0	90.00	271.10	8,364.5	314.4	-4,171.5	4,181.8	0.32	0.00	-0.32
12,425.0	90.10	270.90	8,364.4	315.5	-4,234.5	4,244.8	0.35	0.16	-0.32
12,489.0	90.20	270.60	8,364.2	316.4	-4,298.5	4,308.7	0.49	0.16	-0.47
12,552.0	90.00	270.20	8,364.1	316.8	-4,361.5	4,371.7	0.71	-0.32	-0.63
12,615.0	90.30	269.90	8,364.0	316.9	-4,424.5	4,434.6	0.67	0.48	-0.48
12,678.0	90.40	269.60	8,363.6	316.6	-4,487.5	4,497.5	0.50	0.16	-0.48
12,741.0	90.90	269.70	8,362.9	316.2	-4,550.5	4,560.4	0.81	0.79	0.16
12,804.0	91.00	269.30	8,361.8	315.7	-4,613.5	4,623.3	0.65	0.16	-0.63
12,867.0	91.30	269.10	8,360.6	314.8	-4,676.4	4,686.2	0.57	0.48	-0.32
12,930.0	91.10	269.00	8,359.2	313.7	-4,739.4	4,749.0	0.35	-0.32	-0.16
12,993.0	91.90	268.80	8,357.6	312.5	-4,802.4	4,811.9	1.31	1.27	-0.32
13,057.0	92.20	268.70	8,355.3	311.1	-4,866.3	4,875.7	0.49	0.47	-0.16
13,120.0	92.70	268.40	8,352.6	309.5	-4,929.3	4,938.4	0.93	0.79	-0.48
13,183.0	93.20	268.40	8,349.4	307.8	-4,992.1	5,001.2	0.79	0.79	0.00
13,246.0	92.80	269.10	8,346.1	306.4	-5,055.0	5,063.9	1.28	-0.63	1.11
13,309.0	91.10	269.30	8,343.9	305.5	-5,118.0	5,126.8	2.72	-2.70	0.32
13,372.0	90.90	269.30	8,342.8	304.8	-5,181.0	5,189.6	0.32	-0.32	0.00
13,436.0	91.00	269.00	8,341.8	303.8	-5,245.0	5,253.5	0.49	0.16	-0.47
13,498.0	92.10	268.80	8,340.1	302.6	-5,306.9	5,315.3	1.80	1.77	-0.32
13,561.0	91.50	268.40	8,338.1	301.1	-5,369.9	5,378.1	1.14	-0.95	-0.63
13,624.0	91.30	268.30	8,336.6	299.3	-5,432.8	5,440.9	0.35	-0.32	-0.16
13,688.0	91.40	268.40	8,335.1	297.4	-5,496.8	5,504.7	0.22	0.16	0.16
13,751.0	90.80	267.50	8,333.9	295.2	-5,559.7	5,567.5	1.72	-0.95	-1.43
13,814.0	91.80	268.10	8,332.4	292.8	-5,622.7	5,630.2	1.85	1.59	0.95
13,877.0	91.60	270.30	8,330.6	291.9	-5,685.6	5,693.1	3.50	-0.32	3.49
13,941.0	92.40	270.50	8,328.3	292.3	-5,749.6	5,757.0	1.29	1.25	0.31
14,004.0	90.80	270.60	8,326.6	292.9	-5,812.6	5,819.9	2.54	-2.54	0.16
14,067.0	89.10	270.60	8,326.6	293.6	-5,875.6	5,882.9	2.70	-2.70	0.00
14,130.0	89.10	270.50	8,327.6	294.2	-5,938.6	5,945.8	0.16	0.00	-0.16
14,193.0	89.50	270.40	8,328.4	294.7	-6,001.5	6,008.8	0.65	0.63	-0.16

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well Big Eddy Unit DI2 #323H
Project:	Eddy County, NM	TVD Reference:	RKB @ 3485.5usft (Trinidad #445)
Site:	Sec 34, T19S, R31E	MD Reference:	RKB @ 3485.5usft (Trinidad #445)
Well:	Big Eddy Unit DI2 #323H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,256.0	90.30	270.20	8,328.5	295.0	-6,064.5	6,071.7	1.31	1.27	-0.32
14,319.0	90.10	270.00	8,328.3	295.1	-6,127.5	6,134.6	0.45	-0.32	-0.32
330' FWL Crossed @ 14363.7' MD / 8328.1' TVD									
14,363.7	90.31	270.00	8,328.1	295.1	-6,172.2	6,179.3	0.47	0.47	0.00
14,383.0	90.40	270.00	8,328.0	295.1	-6,191.5	6,198.6	0.47	0.47	0.00
14,445.0	90.20	269.90	8,327.7	295.1	-6,253.5	6,260.5	0.36	-0.32	-0.16
14,509.0	90.50	269.70	8,327.3	294.9	-6,317.5	6,324.4	0.56	0.47	-0.31
14,572.0	89.80	269.30	8,327.1	294.3	-6,380.5	6,387.3	1.28	-1.11	-0.63
14,620.0	90.00	269.40	8,327.2	293.8	-6,428.5	6,435.2	0.47	0.42	0.21
TD @ 14685.0' MD / 8327.2' TVD									
14,685.0	90.00	269.40	8,327.2	293.1	-6,493.5	6,500.1	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,081.0	2,077.8	90.4	47.2	MWD Tie-in @ 2081.0' MD / 2077.8' TVD
14,363.7	8,328.1	295.1	-6,172.2	330' FWL Crossed @ 14363.7' MD / 8328.1' TVD
14,685.0	8,327.2	293.1	-6,493.5	TD @ 14685.0' MD / 8327.2' TVD

Checked By: _____	Approved By: _____	Date: _____
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