

**Provide Signature Page for
Directional Survey**



RECEIVED

OCT 17 2018

DISTRICT II-ARTESIA O.C.D.

XTO ENERGY, INC.

Eddy County, NM

Sec. 6, T25S, R29E

Golden Corral Federal #2H

30-015-44277

Wellbore #1

Design: Wellbore #1

QES Survey Report

21 April, 2018





Survey Report



Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 6, T25S, R29E
Well: Golden Corral Federal #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
TVD Reference: Well @ 2930.0usft (Frontier #27)
MD Reference: Well @ 2930.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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. 6, T25S, R29E				
Site Position:		Northing:	419,324.05 usft	Latitude:	32° 9' 8.798 N
From:	Map	Easting:	597,806.00 usft	Longitude:	104° 1' 2.285 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	Golden Corral Federal #2H				
Well Position	+N/-S 0.0 usft	Northing:	419,282.78 usft	Latitude:	32° 9' 8.424 N
	+E/-W 0.0 usft	Easting:	596,626.18 usft	Longitude:	104° 1' 16.010 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,905.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/6/2018	7.07	59.91	47,768.99493265

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	0.05	

Survey Program	Date	4/21/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
74.0	7,423.0	Wellbender Surveys (Wellbore #1)	MWD	OWSG MWD - Standard
7,459.0	15,750.0	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
74.0	0.20	238.90	74.0	-0.1	-0.1	-0.1	0.27	0.27	0.00
174.0	0.60	200.50	174.0	-0.6	-0.4	-0.6	0.46	0.40	-38.40
236.0	0.80	210.70	236.0	-1.3	-0.8	-1.3	0.38	0.32	16.45
298.0	0.70	220.10	298.0	-2.0	-1.2	-2.0	0.26	-0.16	15.16
390.0	0.80	213.40	390.0	-3.0	-2.0	-3.0	0.14	0.11	-7.28
450.0	0.80	226.70	450.0	-3.6	-2.5	-3.6	0.31	0.00	22.17
507.0	1.00	213.60	507.0	-4.3	-3.1	-4.3	0.50	0.35	-22.98
568.0	1.00	200.80	568.0	-5.2	-3.5	-5.2	0.37	0.00	-20.98
604.0	0.70	212.20	604.0	-5.7	-3.8	-5.7	0.95	-0.83	31.67

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 6, T25S, R29E
Well: Golden Corral Federal #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
TVD Reference: Well @ 2930.0usft (Frontier #27)
MD Reference: Well @ 2930.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
733.0	0.90	212.50	732.9	-7.2	-4.7	-7.2	0.16	0.16	0.23
829.0	1.20	215.20	828.9	-8.7	-5.7	-8.7	0.32	0.31	2.81
913.0	1.00	224.10	912.9	-9.9	-6.7	-9.9	0.31	-0.24	10.60
1,009.0	0.70	228.20	1,008.9	-10.9	-7.8	-10.9	0.32	-0.31	4.27
1,104.0	0.80	218.60	1,103.9	-11.8	-8.6	-11.8	0.17	0.11	-10.11
1,199.0	1.10	203.30	1,198.9	-13.2	-9.4	-13.2	0.41	0.32	-16.11
1,294.0	0.90	216.60	1,293.9	-14.6	-10.2	-14.6	0.32	-0.21	14.00
1,389.0	0.90	232.50	1,388.9	-15.7	-11.2	-15.7	0.26	0.00	16.74
1,485.0	0.90	245.50	1,484.8	-16.4	-12.5	-16.4	0.21	0.00	13.54
1,579.0	0.60	287.10	1,578.8	-16.6	-13.6	-16.6	0.64	-0.32	44.26
1,674.0	0.30	315.50	1,673.8	-16.3	-14.3	-16.3	0.38	-0.32	29.89
1,769.0	0.10	272.80	1,768.8	-16.1	-14.6	-16.1	0.25	-0.21	-44.95
1,863.0	0.20	195.10	1,862.8	-16.2	-14.7	-16.3	0.22	0.11	-82.66
1,958.0	0.50	164.20	1,957.8	-16.8	-14.6	-16.8	0.36	0.32	-32.53
2,054.0	2.70	107.40	2,053.8	-17.9	-12.3	-17.9	2.56	2.29	-59.17
2,149.0	4.30	106.90	2,148.6	-19.6	-6.8	-19.6	1.68	1.68	-0.53
2,243.0	4.30	104.30	2,242.3	-21.5	0.0	-21.5	0.21	0.00	-2.77
2,339.0	5.00	100.80	2,338.0	-23.2	7.6	-23.1	0.79	0.73	-3.65
2,528.0	5.40	100.60	2,526.2	-26.3	24.4	-26.3	0.21	0.21	-0.11
2,617.0	3.90	93.50	2,615.0	-27.3	31.6	-27.3	1.80	-1.69	-7.98
2,654.0	1.50	93.10	2,651.9	-27.4	33.3	-27.4	6.49	-6.49	-1.08
2,849.0	1.30	88.00	2,846.9	-27.5	38.1	-27.4	0.12	-0.10	-2.62
2,944.0	1.30	84.90	2,941.8	-27.3	40.2	-27.3	0.07	0.00	-3.26
3,040.0	1.10	78.70	3,037.8	-27.0	42.2	-27.0	0.25	-0.21	-6.46
3,135.0	1.00	70.60	3,132.8	-26.6	43.9	-26.6	0.19	-0.11	-8.53
3,229.0	0.80	63.60	3,226.8	-26.0	45.2	-26.0	0.24	-0.21	-7.45
3,324.0	0.80	62.40	3,321.8	-25.4	46.4	-25.4	0.02	0.00	-1.26
3,513.0	0.90	54.40	3,510.7	-23.9	48.8	-23.9	0.08	0.05	-4.23
3,608.0	0.60	51.50	3,605.7	-23.2	49.8	-23.2	0.32	-0.32	-3.05
3,703.0	0.40	49.40	3,700.7	-22.7	50.4	-22.6	0.21	-0.21	-2.21
3,798.0	0.40	41.30	3,795.7	-22.2	50.9	-22.2	0.06	0.00	-8.53
3,891.0	0.40	34.10	3,888.7	-21.7	51.3	-21.7	0.05	0.00	-7.74
3,986.0	0.40	28.20	3,983.7	-21.1	51.6	-21.1	0.04	0.00	-6.21
4,081.0	0.30	22.70	4,078.7	-20.6	51.9	-20.6	0.11	-0.11	-5.79
4,177.0	0.30	4.20	4,174.7	-20.1	52.0	-20.1	0.10	0.00	-19.27
4,267.0	0.20	348.70	4,264.7	-19.7	52.0	-19.7	0.13	-0.11	-17.22
4,362.0	0.20	284.10	4,359.7	-19.5	51.8	-19.5	0.22	0.00	-68.00
4,459.0	0.30	263.20	4,456.7	-19.5	51.4	-19.5	0.14	0.10	-21.55
4,555.0	0.30	264.90	4,552.7	-19.6	50.9	-19.5	0.01	0.00	1.77
4,651.0	0.30	255.40	4,648.7	-19.7	50.4	-19.6	0.05	0.00	-9.90
4,747.0	0.40	258.60	4,744.7	-19.8	49.8	-19.8	0.11	0.10	3.33
4,938.0	0.90	166.10	4,935.7	-21.4	49.5	-21.3	0.52	0.26	-48.43
5,032.0	0.70	189.10	5,029.7	-22.7	49.6	-22.6	0.40	-0.21	24.47

Company: XTO ENERGY, INC.
 Project: Eddy County, NM
 Site: Sec. 6, T25S, R29E
 Well: Golden Corral Federal #2H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
 TVD Reference: Well @ 2930.0usft (Frontier #27)
 MD Reference: Well @ 2930.0usft (Frontier #27)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
5,128.0	0.70	202.37	5,125.7	-23.8	49.3	-23.7	0.17	0.00	13.82
5,223.0	0.70	202.90	5,220.7	-24.9	48.9	-24.8	0.01	0.00	0.56
5,318.0	0.80	202.00	5,315.7	-26.0	48.4	-26.0	0.11	0.11	-0.95
5,415.0	0.80	199.90	5,412.7	-27.3	47.9	-27.2	0.03	0.00	-2.16
5,510.0	0.90	198.20	5,507.7	-28.6	47.4	-28.6	0.11	0.11	-1.79
5,606.0	0.90	203.40	5,603.6	-30.0	46.9	-30.0	0.09	0.00	5.42
5,701.0	0.90	209.70	5,698.6	-31.3	46.2	-31.3	0.10	0.00	6.63
5,797.0	0.80	214.60	5,794.6	-32.6	45.5	-32.5	0.13	-0.10	5.10
5,891.0	0.80	209.60	5,888.6	-33.7	44.8	-33.6	0.07	0.00	-5.32
5,985.0	1.00	206.80	5,982.6	-35.0	44.1	-34.9	0.22	0.21	-2.98
6,078.0	1.10	201.20	6,075.6	-36.5	43.4	-36.5	0.15	0.11	-6.02
6,184.0	1.20	200.00	6,181.6	-38.5	42.7	-38.5	0.10	0.09	-1.13
6,280.0	1.20	196.20	6,277.5	-40.4	42.0	-40.4	0.08	0.00	-3.96
6,375.0	1.20	186.70	6,372.5	-42.4	41.6	-42.3	0.21	0.00	-10.00
6,470.0	1.20	189.20	6,467.5	-44.3	41.4	-44.3	0.06	0.00	2.63
6,565.0	1.30	209.20	6,562.5	-46.3	40.7	-46.2	0.47	0.11	21.05
6,660.0	2.10	223.60	6,657.4	-48.5	38.9	-48.4	0.95	0.84	15.16
6,755.0	2.10	233.60	6,752.4	-50.8	36.3	-50.7	0.39	0.00	10.53
6,850.0	2.10	219.50	6,847.3	-53.1	33.8	-53.1	0.54	0.00	-14.84
6,946.0	2.10	199.10	6,943.2	-56.1	32.1	-56.1	0.77	0.00	-21.25
7,041.0	1.80	198.10	7,038.2	-59.2	31.1	-59.2	0.32	-0.32	-1.05
7,136.0	1.40	143.20	7,133.2	-61.6	31.3	-61.5	1.60	-0.42	-57.79
7,232.0	1.00	142.10	7,229.1	-63.2	32.6	-63.1	0.42	-0.42	-1.15
7,327.0	2.20	155.00	7,324.1	-65.5	33.8	-65.4	1.31	1.26	13.58
WB Tie-In @ 7423.0' MD / 7420.0' TVD									
7,423.0	2.90	153.60	7,420.0	-69.3	35.7	-69.3	0.73	0.73	-1.46
7,459.0	2.80	155.30	7,456.0	-70.9	36.5	-70.9	0.36	-0.28	4.72
7,555.0	2.20	201.00	7,551.9	-74.8	36.8	-74.7	2.10	-0.63	47.60
7,651.0	1.70	230.80	7,647.8	-77.4	35.0	-77.4	1.16	-0.52	31.04
7,699.0	1.10	252.60	7,695.8	-78.0	34.0	-78.0	1.65	-1.25	45.42
7,746.0	2.10	345.10	7,742.8	-77.3	33.4	-77.3	5.13	2.13	196.81
7,794.0	5.10	2.30	7,790.7	-74.3	33.2	-74.3	6.57	6.25	35.83
7,842.0	8.30	7.30	7,838.4	-68.7	33.8	-68.7	6.77	6.67	10.42
7,890.0	12.00	11.30	7,885.6	-60.4	35.2	-60.4	7.84	7.71	8.33
7,938.0	15.70	12.50	7,932.2	-49.2	37.6	-49.1	7.73	7.71	2.50
7,986.0	20.00	10.90	7,977.9	-34.8	40.5	-34.7	9.02	8.96	-3.33
8,033.0	23.20	6.40	8,021.6	-17.7	43.1	-17.6	7.66	6.81	-9.57
8,081.0	26.60	4.60	8,065.1	2.5	45.0	2.5	7.26	7.08	-3.75
8,128.0	30.50	1.80	8,106.4	24.9	46.2	24.9	8.77	8.30	-5.96
8,176.0	36.50	359.90	8,146.4	51.3	46.6	51.4	12.69	12.50	-3.96
8,223.0	42.60	359.30	8,182.6	81.3	46.4	81.3	13.00	12.98	-1.28
8,271.0	48.80	356.90	8,216.1	115.6	45.2	115.6	13.40	12.92	-5.00
Crossed 330' HL @ 8316.7' MD / 8244.9' TVD									
8,316.7	53.08	357.58	8,244.9	151.0	43.5	151.0	9.43	9.36	1.49

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 6, T25S, R29E
Well: Golden Corral Federal #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
TVD Reference: Well @ 2930.0usft (Frontier #27)
MD Reference: Well @ 2930.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
8,318.0	53.20	357.60	8,245.7	152.0	43.4	152.1	9.43	9.37	1.40
8,366.0	55.70	356.90	8,273.6	191.1	41.6	191.1	5.34	5.21	-1.46
8,412.0	56.90	355.80	8,299.1	229.2	39.1	229.3	3.28	2.61	-2.39
8,460.0	60.10	355.80	8,324.2	270.1	36.1	270.1	6.67	6.67	0.00
8,508.0	62.80	356.90	8,347.1	312.1	33.4	312.2	5.97	5.63	2.29
8,556.0	66.00	358.10	8,367.9	355.4	31.6	355.4	7.04	6.67	2.50
8,603.0	68.90	359.50	8,385.9	398.8	30.7	398.8	6.76	6.17	2.98
8,651.0	71.40	0.40	8,402.2	443.9	30.6	443.9	5.50	5.21	1.88
8,699.0	73.60	359.70	8,416.6	489.7	30.7	489.7	4.79	4.58	-1.46
8,747.0	76.00	358.50	8,429.2	536.0	29.9	536.0	5.55	5.00	-2.50
8,795.0	78.20	358.80	8,439.9	582.8	28.8	582.8	4.62	4.58	0.63
8,843.0	79.90	358.60	8,449.1	629.9	27.8	629.9	3.57	3.54	-0.42
8,890.0	80.80	358.30	8,456.9	676.2	26.5	676.2	2.02	1.91	-0.64
8,938.0	83.20	358.50	8,463.6	723.7	25.2	723.7	5.02	5.00	0.42
8,986.0	85.70	358.10	8,468.3	771.5	23.8	771.5	5.27	5.21	-0.83
9,034.0	87.80	357.80	8,471.0	819.3	22.0	819.4	4.42	4.38	-0.63
9,081.0	90.00	358.50	8,471.9	866.3	20.5	866.3	4.91	4.68	1.49
9,176.0	92.80	359.00	8,469.6	961.2	18.5	961.3	2.99	2.95	0.53
9,271.0	92.60	357.80	8,465.1	1,056.1	15.8	1,056.1	1.28	-0.21	-1.26
9,364.0	91.80	357.60	8,461.5	1,149.0	12.1	1,149.0	0.89	-0.86	-0.22
9,458.0	91.50	357.80	8,458.8	1,242.8	8.3	1,242.8	0.38	-0.32	0.21
9,554.0	91.10	358.50	8,456.6	1,338.8	5.2	1,338.8	0.84	-0.42	0.73
9,648.0	89.90	358.60	8,455.8	1,432.7	2.8	1,432.7	1.28	-1.28	0.11
9,743.0	91.00	359.30	8,455.1	1,527.7	1.1	1,527.7	1.37	1.16	0.74
9,838.0	90.40	357.90	8,453.9	1,622.7	-1.2	1,622.7	1.60	-0.63	-1.47
9,934.0	90.30	357.80	8,453.3	1,718.6	-4.8	1,718.6	0.15	-0.10	-0.10
10,029.0	90.00	357.90	8,453.1	1,813.5	-8.4	1,813.5	0.33	-0.32	0.11
10,125.0	89.00	357.80	8,453.9	1,909.5	-12.0	1,909.4	1.05	-1.04	-0.10
10,221.0	87.60	0.20	8,456.8	2,005.4	-13.7	2,005.4	2.89	-1.46	2.50
10,316.0	89.20	359.90	8,459.4	2,100.4	-13.6	2,100.3	1.71	1.68	-0.32
10,412.0	88.90	359.00	8,461.0	2,196.3	-14.5	2,196.3	0.99	-0.31	-0.94
10,507.0	89.40	0.20	8,462.4	2,291.3	-15.2	2,291.3	1.37	0.53	1.26
10,603.0	88.90	0.60	8,463.8	2,387.3	-14.5	2,387.3	0.67	-0.52	0.42
10,698.0	89.30	0.90	8,465.3	2,482.3	-13.3	2,482.3	0.53	0.42	0.32
10,793.0	90.00	0.90	8,465.9	2,577.3	-11.8	2,577.3	0.74	0.74	0.00
10,888.0	90.00	0.90	8,465.9	2,672.3	-10.3	2,672.3	0.00	0.00	0.00
10,982.0	89.10	0.90	8,466.6	2,766.2	-8.8	2,766.2	0.96	-0.96	0.00
11,077.0	89.70	0.90	8,467.6	2,861.2	-7.3	2,861.2	0.63	0.63	0.00
11,172.0	91.40	1.60	8,466.7	2,956.2	-5.2	2,956.2	1.94	1.79	0.74
11,268.0	90.80	1.60	8,464.9	3,052.1	-2.6	3,052.1	0.63	-0.63	0.00
11,363.0	90.30	0.40	8,464.0	3,147.1	-0.9	3,147.1	1.37	-0.53	-1.26
11,459.0	88.30	359.90	8,465.1	3,243.1	-0.6	3,243.1	2.15	-2.08	-0.52
11,555.0	88.90	359.20	8,467.5	3,339.1	-1.4	3,339.1	0.96	0.63	-0.73

Company: XTO ENERGY, INC.
 Project: Eddy County, NM
 Site: Sec. 6, T25S, R29E
 Well: Golden Corral Federal #2H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
 TVD Reference: Well @ 2930.0usft (Frontier #27)
 MD Reference: Well @ 2930.0usft (Frontier #27)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
11,651.0	90.00	358.30	8,468.4	3,435.0	-3.5	3,435.0	1.48	1.15	-0.94
11,747.0	87.30	356.00	8,470.7	3,530.9	-8.3	3,530.9	3.69	-2.81	-2.40
11,843.0	88.40	356.90	8,474.3	3,626.6	-14.2	3,626.6	1.48	1.15	0.94
11,937.0	89.60	0.00	8,475.9	3,720.6	-16.7	3,720.6	3.54	1.28	3.30
12,033.0	91.10	1.30	8,475.3	3,816.6	-15.7	3,816.5	2.07	1.56	1.35
12,128.0	92.40	1.10	8,472.4	3,911.5	-13.7	3,911.5	1.38	1.37	-0.21
12,223.0	92.90	0.00	8,468.0	4,006.4	-12.8	4,006.4	1.27	0.53	-1.16
12,318.0	91.80	359.50	8,464.1	4,101.3	-13.2	4,101.3	1.27	-1.16	-0.53
12,413.0	91.50	359.90	8,461.4	4,196.3	-13.7	4,196.2	0.53	-0.32	0.42
12,509.0	89.40	359.70	8,460.7	4,292.2	-14.0	4,292.2	2.20	-2.19	-0.21
12,603.0	89.90	0.20	8,461.2	4,386.2	-14.1	4,386.2	0.75	0.53	0.53
12,699.0	89.30	0.60	8,461.9	4,482.2	-13.4	4,482.2	0.75	-0.63	0.42
12,795.0	90.70	1.60	8,461.9	4,578.2	-11.6	4,578.2	1.79	1.46	1.04
12,889.0	92.00	1.10	8,459.7	4,672.2	-9.4	4,672.2	1.48	1.38	-0.53
12,985.0	92.90	0.60	8,455.6	4,768.1	-7.9	4,768.1	1.07	0.94	-0.52
13,082.0	92.30	0.60	8,451.2	4,865.0	-6.9	4,865.0	0.62	-0.62	0.00
13,177.0	88.60	1.30	8,450.4	4,959.9	-5.3	4,959.9	3.96	-3.89	0.74
13,273.0	89.50	1.10	8,452.0	5,055.9	-3.3	5,055.9	0.96	0.94	-0.21
13,368.0	87.50	0.40	8,454.5	5,150.8	-2.1	5,150.8	2.23	-2.11	-0.74
13,463.0	89.10	0.00	8,457.3	5,245.8	-1.8	5,245.8	1.74	1.68	-0.42
13,559.0	88.90	0.00	8,459.0	5,341.8	-1.8	5,341.8	0.21	-0.21	0.00
13,655.0	90.70	359.90	8,459.3	5,437.8	-1.8	5,437.8	1.88	1.88	-0.10
13,751.0	91.00	0.70	8,457.9	5,533.8	-1.3	5,533.8	0.89	0.31	0.83
13,846.0	90.00	0.90	8,457.1	5,628.8	0.0	5,628.8	1.07	-1.05	0.21
13,942.0	86.90	0.90	8,459.7	5,724.7	1.5	5,724.7	3.23	-3.23	0.00
14,037.0	89.70	1.30	8,462.5	5,819.6	3.3	5,819.6	2.98	2.95	0.42
14,131.0	90.10	1.30	8,462.7	5,913.6	5.4	5,913.6	0.43	0.43	0.00
14,226.0	90.70	1.10	8,462.0	6,008.6	7.4	6,008.6	0.67	0.63	-0.21
14,322.0	88.70	0.40	8,462.5	6,104.6	8.7	6,104.6	2.21	-2.08	-0.73
14,418.0	88.30	358.60	8,465.0	6,200.5	7.9	6,200.5	1.92	-0.42	-1.88
14,513.0	91.30	359.30	8,465.3	6,295.5	6.1	6,295.5	3.24	3.16	0.74
14,609.0	88.10	359.00	8,465.8	6,391.5	4.7	6,391.5	3.35	-3.33	-0.31
14,703.0	90.00	0.00	8,467.4	6,485.4	3.9	6,485.4	2.28	2.02	1.06
14,799.0	87.00	359.50	8,469.9	6,581.4	3.5	6,581.4	3.17	-3.13	-0.52
14,894.0	87.20	358.60	8,474.7	6,676.3	1.9	6,676.3	0.97	0.21	-0.95
14,991.0	89.00	359.00	8,477.9	6,773.2	-0.2	6,773.2	1.90	1.86	0.41
15,086.0	91.60	359.70	8,477.4	6,868.2	-1.2	6,868.2	2.83	2.74	0.74
15,182.0	91.00	358.80	8,475.3	6,964.1	-2.5	6,964.1	1.13	-0.63	-0.94
15,278.0	90.70	0.60	8,473.8	7,060.1	-3.0	7,060.1	1.90	-0.31	1.88
15,373.0	90.70	0.70	8,472.7	7,155.1	-1.9	7,155.1	0.11	0.00	0.11
15,467.0	89.50	359.90	8,472.5	7,249.1	-1.4	7,249.1	1.53	-1.28	-0.85
15,563.0	91.10	359.50	8,472.0	7,345.1	-1.9	7,345.1	1.72	1.67	-0.42

Crossed 330' HL @ 15659.0' MD / 8470.5' TVD

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 6, T25S, R29E
Well: Golden Corral Federal #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Golden Corral Federal #2H
TVD Reference: Well @ 2930.0usft (Frontier #27)
MD Reference: Well @ 2930.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
15,659.0	90.70	357.20	8,470.5	7,441.0	-4.7	7,441.0	2.43	-0.42	-2.40
TD @ 15750.0' MD / 8469.4' TVD									
15,750.0	90.70	357.20	8,469.4	7,531.9	-9.1	7,531.9	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,423.0	7,420.0	-69.3	35.7	WB Tie-In @ 7423.0' MD / 7420.0' TVD
8,316.7	8,244.9	151.0	43.5	Crossed 330' HL @ 8316.7' MD / 8244.9' TVD
15,659.0	8,470.5	7,441.0	-4.7	Crossed 330' HL @ 15659.0' MD / 8470.5' TVD
15,750.0	8,469.4	7,531.9	-9.1	TD @ 15750.0' MD / 8469.4' TVD