



XTO ENERGY, INC.

Eddy County, NM

Sec 10, T25S, R29E

Corral Canyon 10-15 Federal #12H

Wellbore #1

Plan: Design #2

QES Well Planning Report

11 December, 2018





Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 10, T25S, R29E
Well: Corral Canyon 10-15 Federal #12H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well Corral Canyon 10-15 Federal #12H
TVD Reference: RKB @ 3055.0usft (Frontier #27)
MD Reference: RKB @ 3055.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 10, T25S, R29E

Site Position: **Northing:** 418,642.60 usft **Latitude:** 32° 9' 1.624 N
From: Map **Easting:** 611,643.50 usft **Longitude:** 103° 58' 21.351 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.19 °

Well Corral Canyon 10-15 Federal #12H

Well Position **+N/-S** 199.5 usft **Northing:** 418,842.10 usft **Latitude:** 32° 9' 3.513 N
+E/-W 2,561.4 usft **Easting:** 614,204.90 usft **Longitude:** 103° 57' 51.549 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,028.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/18/2017	7.15	59.93	47,872.37299126

Design Design #2

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.64

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,342.0	0.00	0.00	3,342.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,675.2	10.00	339.42	3,673.5	27.1	-10.2	3.00	3.00	0.00	339.42	
8,300.0	10.00	339.42	8,228.0	778.8	-292.3	0.00	0.00	0.00	0.00	
9,293.6	90.00	179.79	8,893.0	213.3	-331.1	10.00	8.05	-16.06	-159.34	FTP - CCF 10-15 1:
19,764.4	90.00	179.79	8,893.0	-10,257.4	-293.2	0.00	0.00	0.00	0.00	PBHL - CCF 10-15



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
558.0	0.00	0.00	558.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
876.0	0.00	0.00	876.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
2,954.0	0.00	0.00	2,954.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Delaware									
3,156.0	0.00	0.00	3,156.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
3,342.0	0.00	0.00	3,342.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	1.74	339.42	3,400.0	0.8	-0.3	-0.8	3.00	3.00	0.00
3,500.0	4.74	339.42	3,499.8	6.1	-2.3	-6.0	3.00	3.00	0.00
3,600.0	7.74	339.42	3,599.2	16.3	-6.1	-16.1	3.00	3.00	0.00
EOB @ 10.00° Inc. / 339.42° Azm									
3,675.2	10.00	339.42	3,673.5	27.1	-10.2	-26.8	3.00	3.00	0.00
3,700.0	10.00	339.42	3,697.9	31.2	-11.7	-30.8	0.00	0.00	0.00
3,800.0	10.00	339.42	3,796.4	47.4	-17.8	-46.9	0.00	0.00	0.00
3,900.0	10.00	339.42	3,894.9	63.7	-23.9	-63.0	0.00	0.00	0.00
4,000.0	10.00	339.42	3,993.4	79.9	-30.0	-79.0	0.00	0.00	0.00



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Planned 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)
Cherry Canyon									
4,065.6	10.00	339.42	4,058.0	90.6	-34.0	-89.6	0.00	0.00	0.00
4,100.0	10.00	339.42	4,091.9	96.2	-36.1	-95.1	0.00	0.00	0.00
4,200.0	10.00	339.42	4,190.3	112.4	-42.2	-111.2	0.00	0.00	0.00
4,300.0	10.00	339.42	4,288.8	128.7	-48.3	-127.3	0.00	0.00	0.00
4,400.0	10.00	339.42	4,387.3	144.9	-54.4	-143.3	0.00	0.00	0.00
4,500.0	10.00	339.42	4,485.8	161.2	-60.5	-159.4	0.00	0.00	0.00
4,600.0	10.00	339.42	4,584.3	177.4	-66.6	-175.5	0.00	0.00	0.00
4,700.0	10.00	339.42	4,682.8	193.7	-72.7	-191.5	0.00	0.00	0.00
4,800.0	10.00	339.42	4,781.2	209.9	-78.8	-207.6	0.00	0.00	0.00
4,900.0	10.00	339.42	4,879.7	226.2	-84.9	-223.7	0.00	0.00	0.00
5,000.0	10.00	339.42	4,978.2	242.5	-91.0	-239.8	0.00	0.00	0.00
5,100.0	10.00	339.42	5,076.7	258.7	-97.1	-255.8	0.00	0.00	0.00
5,200.0	10.00	339.42	5,175.2	275.0	-103.2	-271.9	0.00	0.00	0.00
5,300.0	10.00	339.42	5,273.6	291.2	-109.3	-288.0	0.00	0.00	0.00
5,400.0	10.00	339.42	5,372.1	307.5	-115.4	-304.0	0.00	0.00	0.00
5,500.0	10.00	339.42	5,470.6	323.7	-121.5	-320.1	0.00	0.00	0.00
5,600.0	10.00	339.42	5,569.1	340.0	-127.6	-336.2	0.00	0.00	0.00
Brushy Canyon									
5,650.7	10.00	339.42	5,619.0	348.2	-130.7	-344.3	0.00	0.00	0.00
5,700.0	10.00	339.42	5,667.6	356.2	-133.7	-352.2	0.00	0.00	0.00
5,800.0	10.00	339.42	5,766.1	372.5	-139.8	-368.3	0.00	0.00	0.00
5,900.0	10.00	339.42	5,864.5	388.7	-145.9	-384.4	0.00	0.00	0.00
6,000.0	10.00	339.42	5,963.0	405.0	-152.0	-400.5	0.00	0.00	0.00
6,100.0	10.00	339.42	6,061.5	421.2	-158.1	-416.5	0.00	0.00	0.00
6,200.0	10.00	339.42	6,160.0	437.5	-164.2	-432.6	0.00	0.00	0.00
6,300.0	10.00	339.42	6,258.5	453.7	-170.3	-448.7	0.00	0.00	0.00
6,400.0	10.00	339.42	6,356.9	470.0	-176.4	-464.7	0.00	0.00	0.00
6,500.0	10.00	339.42	6,455.4	486.2	-182.5	-480.8	0.00	0.00	0.00
6,600.0	10.00	339.42	6,553.9	502.5	-188.6	-496.9	0.00	0.00	0.00
Basal Brushy Canyon									
6,688.4	10.00	339.42	6,641.0	516.9	-194.0	-511.1	0.00	0.00	0.00
6,700.0	10.00	339.42	6,652.4	518.7	-194.7	-513.0	0.00	0.00	0.00
6,800.0	10.00	339.42	6,750.9	535.0	-200.8	-529.0	0.00	0.00	0.00
6,900.0	10.00	339.42	6,849.4	551.2	-206.9	-545.1	0.00	0.00	0.00
Bone Spring									
6,971.7	10.00	339.42	6,920.0	562.9	-211.3	-556.6	0.00	0.00	0.00
7,000.0	10.00	339.42	6,947.8	567.5	-213.0	-561.2	0.00	0.00	0.00
7,100.0	10.00	339.42	7,046.3	583.7	-219.1	-577.2	0.00	0.00	0.00
7,200.0	10.00	339.42	7,144.8	600.0	-225.2	-593.3	0.00	0.00	0.00
7,300.0	10.00	339.42	7,243.3	616.2	-231.3	-609.4	0.00	0.00	0.00
7,400.0	10.00	339.42	7,341.8	632.5	-237.4	-625.5	0.00	0.00	0.00
7,500.0	10.00	339.42	7,440.2	648.8	-243.5	-641.5	0.00	0.00	0.00
7,600.0	10.00	339.42	7,538.7	665.0	-249.6	-657.6	0.00	0.00	0.00
7,700.0	10.00	339.42	7,637.2	681.3	-255.7	-673.7	0.00	0.00	0.00
7,800.0	10.00	339.42	7,735.7	697.5	-261.8	-689.7	0.00	0.00	0.00
1st Bone Spring Lm									
7,805.4	10.00	339.42	7,741.0	698.4	-262.2	-690.6	0.00	0.00	0.00
1st Bone Spring Ss									
7,880.5	10.00	339.42	7,815.0	710.6	-266.8	-702.7	0.00	0.00	0.00
7,900.0	10.00	339.42	7,834.2	713.8	-267.9	-705.8	0.00	0.00	0.00
8,000.0	10.00	339.42	7,932.6	730.0	-274.0	-721.9	0.00	0.00	0.00
8,100.0	10.00	339.42	8,031.1	746.3	-280.1	-738.0	0.00	0.00	0.00



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8,200.0	10.00	339.42	8,129.6	762.5	-286.3	-754.0	0.00	0.00	0.00
2nd Bone Spring Lm									
8,262.3	10.00	339.42	8,191.0	772.6	-290.1	-764.0	0.00	0.00	0.00
Build 10° / 100'									
8,300.0	10.00	339.42	8,228.0	778.8	-292.3	-770.1	0.00	0.00	0.00
8,350.0	5.60	321.03	8,277.6	784.7	-295.4	-776.0	10.00	-8.79	-36.75
8,400.0	3.57	259.48	8,327.5	786.3	-298.5	-777.5	10.00	-4.06	-123.11
8,450.0	6.64	211.60	8,377.3	783.6	-301.5	-774.7	10.00	6.14	-95.75
8,500.0	11.20	197.85	8,426.7	776.5	-304.5	-767.5	10.00	9.11	-27.51
8,550.0	16.02	192.13	8,475.3	765.1	-307.5	-756.0	10.00	9.64	-11.43
8,600.0	20.92	189.03	8,522.7	749.6	-310.3	-740.4	10.00	9.81	-6.21
8,650.0	25.86	187.06	8,568.6	729.9	-313.1	-720.7	10.00	9.88	-3.93
8,700.0	30.82	185.70	8,612.6	706.3	-315.7	-697.0	10.00	9.92	-2.74
8,750.0	35.79	184.67	8,654.3	679.0	-318.1	-669.6	10.00	9.94	-2.04
2nd Bone Spring Ss									
8,778.5	38.62	184.20	8,677.0	661.8	-319.5	-652.4	10.00	9.95	-1.68
8,800.0	40.76	183.87	8,693.6	648.1	-320.4	-638.7	10.00	9.95	-1.50
8,850.0	45.74	183.22	8,730.0	613.9	-322.5	-604.5	10.00	9.96	-1.31
2nd Bone Spring B									
8,899.6	50.68	182.67	8,763.0	577.0	-324.4	-567.5	10.00	9.97	-1.10
8,900.0	50.73	182.67	8,763.3	576.7	-324.5	-567.2	10.00	9.97	-1.02
8,950.0	55.71	182.19	8,793.2	536.7	-326.1	-527.2	10.00	9.97	-0.96
9,000.0	60.70	181.77	8,819.5	494.2	-327.6	-484.7	10.00	9.97	-0.85
9,050.0	65.69	181.38	8,842.1	449.7	-328.8	-440.1	10.00	9.98	-0.77
9,100.0	70.68	181.03	8,860.7	403.3	-329.8	-393.7	10.00	9.98	-0.71
2nd Bone Spring C									
9,123.6	73.03	180.87	8,868.0	380.9	-330.2	-371.3	10.00	9.98	-0.68
9,150.0	75.67	180.69	8,875.1	355.4	-330.5	-345.8	10.00	9.98	-0.66
9,200.0	80.66	180.37	8,885.4	306.5	-331.0	-296.9	10.00	9.98	-0.64
9,250.0	85.65	180.06	8,891.3	256.9	-331.2	-247.3	10.00	9.98	-0.62
EOB @ 90.00° Inc. / 179.79° Azm									
9,293.6	90.00	179.79	8,893.0	213.3	-331.1	-203.8	10.00	9.98	-0.61
9,300.0	90.00	179.79	8,893.0	206.9	-331.1	-197.4	0.00	0.00	0.00
9,400.0	90.00	179.79	8,893.0	106.9	-330.7	-97.4	0.00	0.00	0.00
9,500.0	90.00	179.79	8,893.0	6.9	-330.4	2.5	0.00	0.00	0.00
9,600.0	90.00	179.79	8,893.0	-93.1	-330.0	102.5	0.00	0.00	0.00
9,700.0	90.00	179.79	8,893.0	-193.1	-329.6	202.4	0.00	0.00	0.00
9,800.0	90.00	179.79	8,893.0	-293.1	-329.3	302.4	0.00	0.00	0.00
9,900.0	90.00	179.79	8,893.0	-393.1	-328.9	402.3	0.00	0.00	0.00
10,000.0	90.00	179.79	8,893.0	-493.1	-328.5	502.3	0.00	0.00	0.00
10,100.0	90.00	179.79	8,893.0	-593.1	-328.2	602.2	0.00	0.00	0.00
10,200.0	90.00	179.79	8,893.0	-693.1	-327.8	702.2	0.00	0.00	0.00
10,300.0	90.00	179.79	8,893.0	-793.1	-327.5	802.1	0.00	0.00	0.00
10,400.0	90.00	179.79	8,893.0	-893.1	-327.1	902.1	0.00	0.00	0.00
10,500.0	90.00	179.79	8,893.0	-993.1	-326.7	1,002.0	0.00	0.00	0.00
10,600.0	90.00	179.79	8,893.0	-1,093.1	-326.4	1,102.0	0.00	0.00	0.00
10,700.0	90.00	179.79	8,893.0	-1,193.1	-326.0	1,201.9	0.00	0.00	0.00
10,800.0	90.00	179.79	8,893.0	-1,293.1	-325.6	1,301.9	0.00	0.00	0.00
10,900.0	90.00	179.79	8,893.0	-1,393.1	-325.3	1,401.8	0.00	0.00	0.00
11,000.0	90.00	179.79	8,893.0	-1,493.1	-324.9	1,501.7	0.00	0.00	0.00
11,100.0	90.00	179.79	8,893.0	-1,593.1	-324.6	1,601.7	0.00	0.00	0.00
11,200.0	90.00	179.79	8,893.0	-1,693.1	-324.2	1,701.6	0.00	0.00	0.00
11,300.0	90.00	179.79	8,893.0	-1,793.1	-323.8	1,801.6	0.00	0.00	0.00



Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 10, T25S, R29E
Well: Corral Canyon 10-15 Federal #12H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well Corral Canyon 10-15 Federal #12H
TVD Reference: RKB @ 3055.0usft (Frontier #27)
MD Reference: RKB @ 3055.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
11,400.0	90.00	179.79	8,893.0	-1,893.1	-323.5	1,901.5	0.00	0.00	0.00
11,500.0	90.00	179.79	8,893.0	-1,993.1	-323.1	2,001.5	0.00	0.00	0.00
11,600.0	90.00	179.79	8,893.0	-2,093.1	-322.8	2,101.4	0.00	0.00	0.00
11,700.0	90.00	179.79	8,893.0	-2,193.1	-322.4	2,201.4	0.00	0.00	0.00
11,800.0	90.00	179.79	8,893.0	-2,293.1	-322.0	2,301.3	0.00	0.00	0.00
11,900.0	90.00	179.79	8,893.0	-2,393.1	-321.7	2,401.3	0.00	0.00	0.00
12,000.0	90.00	179.79	8,893.0	-2,493.1	-321.3	2,501.2	0.00	0.00	0.00
12,100.0	90.00	179.79	8,893.0	-2,593.1	-320.9	2,601.2	0.00	0.00	0.00
12,200.0	90.00	179.79	8,893.0	-2,693.1	-320.6	2,701.1	0.00	0.00	0.00
12,300.0	90.00	179.79	8,893.0	-2,793.1	-320.2	2,801.1	0.00	0.00	0.00
12,400.0	90.00	179.79	8,893.0	-2,893.1	-319.9	2,901.0	0.00	0.00	0.00
12,500.0	90.00	179.79	8,893.0	-2,993.1	-319.5	3,001.0	0.00	0.00	0.00
12,600.0	90.00	179.79	8,893.0	-3,093.1	-319.1	3,100.9	0.00	0.00	0.00
12,700.0	90.00	179.79	8,893.0	-3,193.1	-318.8	3,200.9	0.00	0.00	0.00
12,800.0	90.00	179.79	8,893.0	-3,293.1	-318.4	3,300.8	0.00	0.00	0.00
12,900.0	90.00	179.79	8,893.0	-3,393.1	-318.0	3,400.8	0.00	0.00	0.00
13,000.0	90.00	179.79	8,893.0	-3,493.1	-317.7	3,500.7	0.00	0.00	0.00
13,100.0	90.00	179.79	8,893.0	-3,593.1	-317.3	3,600.7	0.00	0.00	0.00
13,200.0	90.00	179.79	8,893.0	-3,693.1	-317.0	3,700.6	0.00	0.00	0.00
13,300.0	90.00	179.79	8,893.0	-3,793.1	-316.6	3,800.6	0.00	0.00	0.00
13,400.0	90.00	179.79	8,893.0	-3,893.1	-316.2	3,900.5	0.00	0.00	0.00
13,500.0	90.00	179.79	8,893.0	-3,993.1	-315.9	4,000.5	0.00	0.00	0.00
13,600.0	90.00	179.79	8,893.0	-4,093.1	-315.5	4,100.4	0.00	0.00	0.00
13,700.0	90.00	179.79	8,893.0	-4,193.1	-315.2	4,200.3	0.00	0.00	0.00
13,800.0	90.00	179.79	8,893.0	-4,293.1	-314.8	4,300.3	0.00	0.00	0.00
13,900.0	90.00	179.79	8,893.0	-4,393.1	-314.4	4,400.2	0.00	0.00	0.00
14,000.0	90.00	179.79	8,893.0	-4,493.1	-314.1	4,500.2	0.00	0.00	0.00
14,100.0	90.00	179.79	8,893.0	-4,593.1	-313.7	4,600.1	0.00	0.00	0.00
14,200.0	90.00	179.79	8,893.0	-4,693.1	-313.3	4,700.1	0.00	0.00	0.00
14,300.0	90.00	179.79	8,893.0	-4,793.1	-313.0	4,800.0	0.00	0.00	0.00
14,400.0	90.00	179.79	8,893.0	-4,893.1	-312.6	4,900.0	0.00	0.00	0.00
14,500.0	90.00	179.79	8,893.0	-4,993.1	-312.3	4,999.9	0.00	0.00	0.00
14,600.0	90.00	179.79	8,893.0	-5,093.1	-311.9	5,099.9	0.00	0.00	0.00
14,700.0	90.00	179.79	8,893.0	-5,193.0	-311.5	5,199.8	0.00	0.00	0.00
14,800.0	90.00	179.79	8,893.0	-5,293.0	-311.2	5,299.8	0.00	0.00	0.00
14,900.0	90.00	179.79	8,893.0	-5,393.0	-310.8	5,399.7	0.00	0.00	0.00
15,000.0	90.00	179.79	8,893.0	-5,493.0	-310.4	5,499.7	0.00	0.00	0.00
15,100.0	90.00	179.79	8,893.0	-5,593.0	-310.1	5,599.6	0.00	0.00	0.00
15,200.0	90.00	179.79	8,893.0	-5,693.0	-309.7	5,699.6	0.00	0.00	0.00
15,300.0	90.00	179.79	8,893.0	-5,793.0	-309.4	5,799.5	0.00	0.00	0.00
15,400.0	90.00	179.79	8,893.0	-5,893.0	-309.0	5,899.5	0.00	0.00	0.00
15,500.0	90.00	179.79	8,893.0	-5,993.0	-308.6	5,999.4	0.00	0.00	0.00
15,600.0	90.00	179.79	8,893.0	-6,093.0	-308.3	6,099.4	0.00	0.00	0.00
15,700.0	90.00	179.79	8,893.0	-6,193.0	-307.9	6,199.3	0.00	0.00	0.00
15,800.0	90.00	179.79	8,893.0	-6,293.0	-307.5	6,299.3	0.00	0.00	0.00
15,900.0	90.00	179.79	8,893.0	-6,393.0	-307.2	6,399.2	0.00	0.00	0.00
16,000.0	90.00	179.79	8,893.0	-6,493.0	-306.8	6,499.2	0.00	0.00	0.00
16,100.0	90.00	179.79	8,893.0	-6,593.0	-306.5	6,599.1	0.00	0.00	0.00
16,200.0	90.00	179.79	8,893.0	-6,693.0	-306.1	6,699.1	0.00	0.00	0.00
16,300.0	90.00	179.79	8,893.0	-6,793.0	-305.7	6,799.0	0.00	0.00	0.00
16,400.0	90.00	179.79	8,893.0	-6,893.0	-305.4	6,898.9	0.00	0.00	0.00
16,500.0	90.00	179.79	8,893.0	-6,993.0	-305.0	6,998.9	0.00	0.00	0.00
16,600.0	90.00	179.79	8,893.0	-7,093.0	-304.7	7,098.8	0.00	0.00	0.00
16,700.0	90.00	179.79	8,893.0	-7,193.0	-304.3	7,198.8	0.00	0.00	0.00



Well Planning Report



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Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well Corral Canyon 10-15 Federal #12H
TVD Reference: RKB @ 3055.0usft (Frontier #27)
MD Reference: RKB @ 3055.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
16,800.0	90.00	179.79	8,893.0	-7,293.0	-303.9	7,298.7	0.00	0.00	0.00
16,900.0	90.00	179.79	8,893.0	-7,393.0	-303.6	7,398.7	0.00	0.00	0.00
17,000.0	90.00	179.79	8,893.0	-7,493.0	-303.2	7,498.6	0.00	0.00	0.00
17,100.0	90.00	179.79	8,893.0	-7,593.0	-302.8	7,598.6	0.00	0.00	0.00
17,200.0	90.00	179.79	8,893.0	-7,693.0	-302.5	7,698.5	0.00	0.00	0.00
17,300.0	90.00	179.79	8,893.0	-7,793.0	-302.1	7,798.5	0.00	0.00	0.00
17,400.0	90.00	179.79	8,893.0	-7,893.0	-301.8	7,898.4	0.00	0.00	0.00
17,500.0	90.00	179.79	8,893.0	-7,993.0	-301.4	7,998.4	0.00	0.00	0.00
17,600.0	90.00	179.79	8,893.0	-8,093.0	-301.0	8,098.3	0.00	0.00	0.00
17,700.0	90.00	179.79	8,893.0	-8,193.0	-300.7	8,198.3	0.00	0.00	0.00
17,800.0	90.00	179.79	8,893.0	-8,293.0	-300.3	8,298.2	0.00	0.00	0.00
17,900.0	90.00	179.79	8,893.0	-8,393.0	-299.9	8,398.2	0.00	0.00	0.00
18,000.0	90.00	179.79	8,893.0	-8,493.0	-299.6	8,498.1	0.00	0.00	0.00
18,100.0	90.00	179.79	8,893.0	-8,593.0	-299.2	8,598.1	0.00	0.00	0.00
18,200.0	90.00	179.79	8,893.0	-8,693.0	-298.9	8,698.0	0.00	0.00	0.00
18,300.0	90.00	179.79	8,893.0	-8,793.0	-298.5	8,798.0	0.00	0.00	0.00
18,400.0	90.00	179.79	8,893.0	-8,893.0	-298.1	8,897.9	0.00	0.00	0.00
18,500.0	90.00	179.79	8,893.0	-8,993.0	-297.8	8,997.9	0.00	0.00	0.00
18,600.0	90.00	179.79	8,893.0	-9,093.0	-297.4	9,097.8	0.00	0.00	0.00
18,700.0	90.00	179.79	8,893.0	-9,193.0	-297.1	9,197.8	0.00	0.00	0.00
18,800.0	90.00	179.79	8,893.0	-9,293.0	-296.7	9,297.7	0.00	0.00	0.00
18,900.0	90.00	179.79	8,893.0	-9,393.0	-296.3	9,397.7	0.00	0.00	0.00
19,000.0	90.00	179.79	8,893.0	-9,493.0	-296.0	9,497.6	0.00	0.00	0.00
19,100.0	90.00	179.79	8,893.0	-9,593.0	-295.6	9,597.6	0.00	0.00	0.00
19,200.0	90.00	179.79	8,893.0	-9,693.0	-295.2	9,697.5	0.00	0.00	0.00
19,300.0	90.00	179.79	8,893.0	-9,793.0	-294.9	9,797.4	0.00	0.00	0.00
19,400.0	90.00	179.79	8,893.0	-9,893.0	-294.5	9,897.4	0.00	0.00	0.00
19,500.0	90.00	179.79	8,893.0	-9,993.0	-294.2	9,997.3	0.00	0.00	0.00
19,600.0	90.00	179.79	8,893.0	-10,093.0	-293.8	10,097.3	0.00	0.00	0.00
19,700.0	90.00	179.79	8,893.0	-10,193.0	-293.4	10,197.2	0.00	0.00	0.00
TD @ 19764.4' MD / 8893.0' TVD									
19,764.4	90.00	179.79	8,893.0	-10,257.4	-293.2	10,261.6	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - CCF 10-15 11	0.00	0.00	8,893.0	-10,257.4	-293.2	408,584.70	613,911.70	32° 7' 22.012 N	103° 57' 55.368 W
- plan hits target center									
- Point									
LTP - CCF 10-15 12H	0.00	0.00	8,893.0	-10,207.4	-293.4	408,634.70	613,911.50	32° 7' 22.507 N	103° 57' 55.368 W
- plan misses target center by 14.4usft at 19700.0usft MD (8893.0 TVD, -10193.0 N, -293.4 E)									
- Point									
FTP - CCF 10-15 12H	0.00	0.00	8,893.0	213.3	-331.1	419,055.40	613,873.80	32° 9' 5.635 N	103° 57' 55.392 W
- plan hits target center									
- Point									



Well Planning Report



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Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 10, T25S, R29E
Well: Corral Canyon 10-15 Federal #12H
Wellbore: Wellbore #1
Design: Design #2

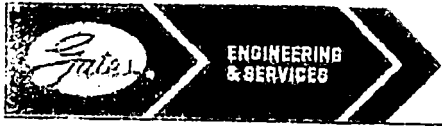
Local Co-ordinate Reference: Well Corral Canyon 10-15 Federal #12H
TVD Reference: RKB @ 3055.0usft (Frontier #27)
MD Reference: RKB @ 3055.0usft (Frontier #27)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
558.0	558.0	Rustler			
876.0	876.0	Top Salt			
2,954.0	2,954.0	Base Salt			
3,156.0	3,156.0	Delaware			
4,065.6	4,058.0	Cherry Canyon			
5,650.7	5,619.0	Brushy Canyon			
6,688.4	6,641.0	Basal Brushy Canyon			
6,971.7	6,920.0	Bone Spring			
7,805.4	7,741.0	1st Bone Spring Lm			
7,880.5	7,815.0	1st Bone Spring Ss			
8,262.3	8,191.0	2nd Bone Spring Lm			
8,778.5	8,677.0	2nd Bone Spring Ss			
8,899.6	8,763.0	2nd Bone Spring B			
9,123.6	8,868.0	2nd Bone Spring C			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,342.0	3,342.0	0.0	0.0	Build 3° / 100'
3,675.2	3,673.5	27.1	-10.2	EOB @ 10.00° Inc. / 339.42° Azm
8,300.0	8,228.0	778.8	-292.3	Build 10° / 100'
9,293.6	8,893.0	213.3	-331.1	EOB @ 90.00° Inc. / 179.79° Azm
19,764.4	8,893.0	-10,257.4	-293.2	TD @ 19764.4' MD / 8893.0' TVD



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

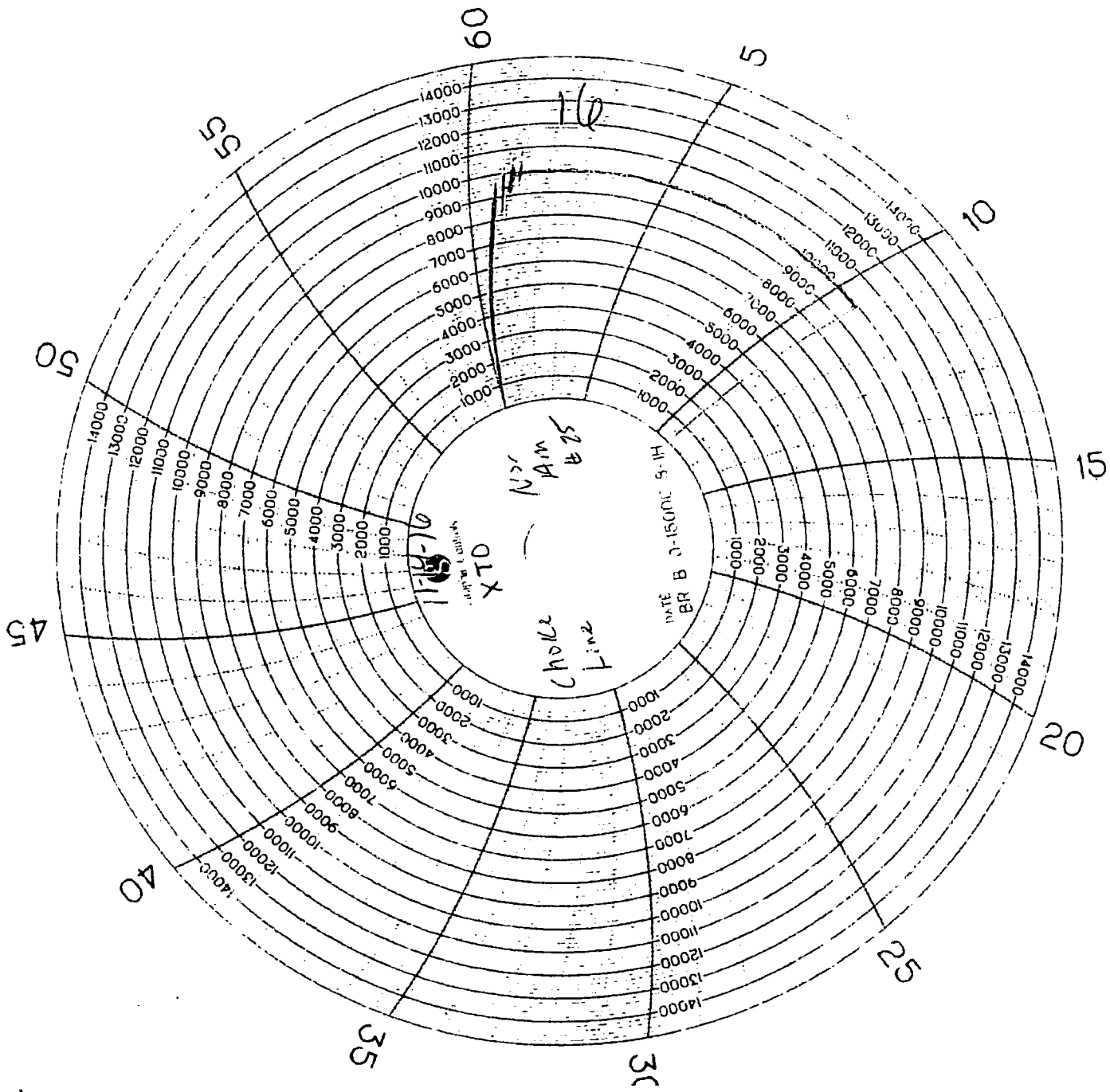
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer:	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref.:	PENDING	Hose Serial No.:	D-060814-1
Invoice No.:	201709	Created By:	NORMA
Product Description:	FD3.0+2.0R41/16.5KFLGE/E LE		
End Fitting 1:	4 1/16 in. SK FLG	End Fitting 2:	4 1/16 in. SK FLG
Gates Part No.:	4774-6001	Assembly Code:	L33090011513D-060814-1
Working Pressure:	5,000 PSI	Test Pressure:	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor:	PRODUCTION
Date:	6/8/2014	Date:	6/8/2014
Signature:		Signature:	



11000

HOSE I.D. 2 1/2"

LENGTH 42' 0"

470' 54" 1/2 4 1/2 54" 1/2

GRADE 2 1/2"

WORKING PRESSURE 500 PSI

TEST PRESSURE 750 PSI

ASSEMBLY DATE 6/14/14

TEST DATE 6/14/14

SERIAL

638020015132-2060814-1000

GRADE 2 1/2"

OR 28673