



XTO Energy

Eddy County, NM (NAD-27)

Tombstone 11 State

#125H

Wellbore #1

Plan: PERMIT

Standard Planning Report

21 February, 2019



Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #125H
Wellbore: Wellbore #1
Design: PERMIT

WELL DETAILS: #125H

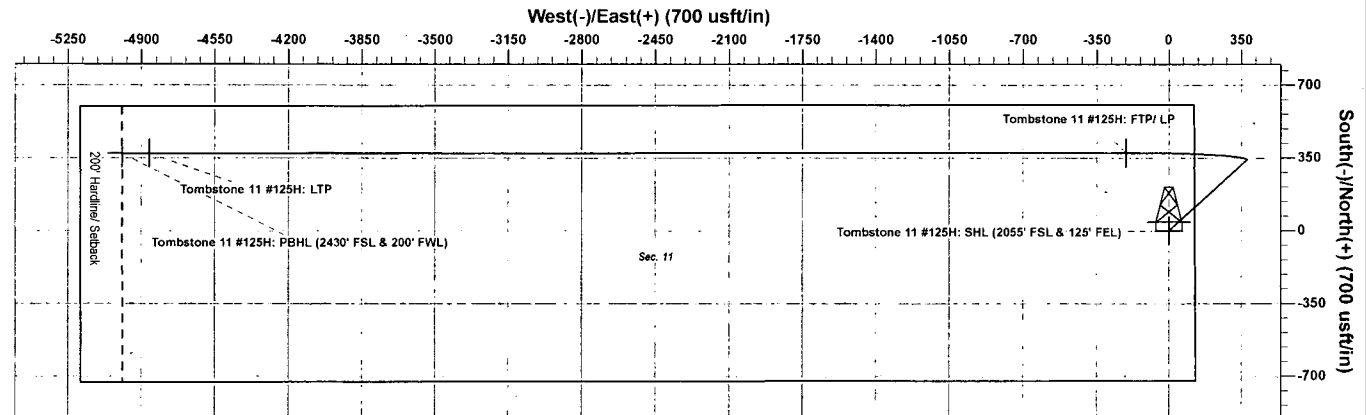
Rig Name:
GL @ 3133.00usft
Ground Level: 3133.00
Easting: 619733.60
Northing: 415907.50
Latitude: 32.142855
Longitude: -103.946490

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	4135.00	0.00	0.00	4135.00	0.00	0.00	0.00	0.000	0.00
3	4385.20	5.00	47.87	4384.88	7.32	8.10	2.00	47.867	-8.10
4	10055.07	5.00	47.87	10033.14	339.10	374.85	0.00	0.000	-375.14
5	11002.94	91.08	269.95	10842.00	375.00	-207.70	10.00	-137.745	207.37
6	15657.87	91.08	269.95	10554.45	370.91	-4861.80	0.00	0.000	4861.47
7	15787.89	91.08	269.95	10552.00	370.80	-4991.80	0.00	0.000	4991.47

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Tombstone 11 #125H: SHL (2055' FSL & 125' FEL)	0.00	0.00	0.00	415907.50	619733.60	32.142855	-103.946490	Point
Tombstone 11 #125H: PBHL (2430' FSL & 200' FWL)	10552.00	370.80	-4991.80	416278.30	614741.80	32.143923	-103.962613	Point
Tombstone 11 #125H: LTP	10554.45	371.10	-4861.80	416278.60	614871.80	32.143922	-103.962193	Point
Tombstone 11 #125H: FTP/ LP	10642.00	375.00	-207.70	416282.50	619525.90	32.143888	-103.947156	Point



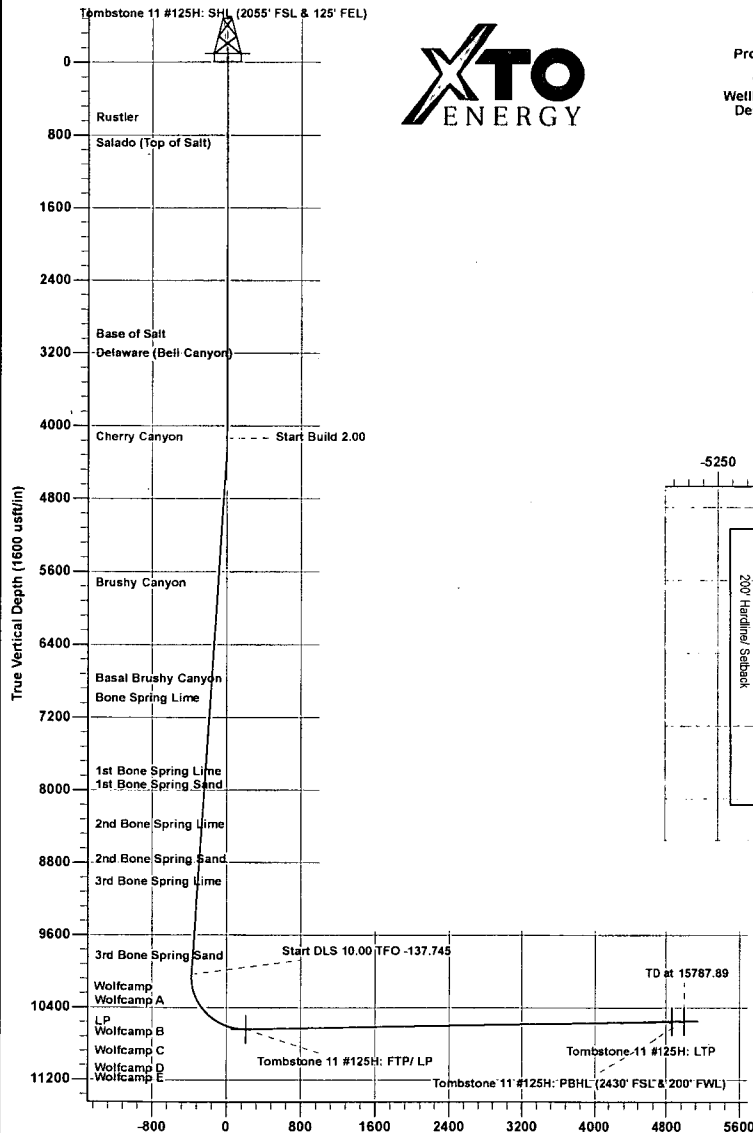
FORMATION TOP DETAILS

TVDPATH	FORMATION
692.00	Rustler
972.00	Salado (Top of Salt)
3076.00	Base of Salt
3284.00	Delaware (Bell Canyon)
4206.00	Cherry Canyon
5907.00	Brushy Canyon
6857.00	Basal Brushy Canyon
7071.00	Bone Spring Lime
7959.00	1st Bone Spring Sand
8024.00	2nd Bone Spring Sand
8463.00	3rd Bone Spring Sand
8846.00	Wolfcamp
9092.00	Wolfcamp A
9914.00	Wolfcamp B
10265.00	Wolfcamp C
10410.00	Wolfcamp D
10642.00	Wolfcamp E

PROJECT DETAILS: Eddy County, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan: PERMIT (#125H/Wellbore #1)

Created By: Matthew May Date: 11:42, February 21 2019



Vertical Section at 269.95° (1600 usft/in)

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the customer.



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #125H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well #125H
TVD Reference: GL @ 3133.00usft
MD Reference: GL @ 3133.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD-27)		
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	Tombstone 11 State		
Site Position:		Northing:	418,228.20 usft
From:	Map	Easting:	619,717.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.149235
		Longitude:	-103.946516
		Grid Convergence:	0.206 °

Well	#125H		
Well Position	+N/-S	-2,320.70 usft	Northing: 415,907.50 usft
	+E/-W	16.40 usft	Easting: 619,733.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.142855
		Longitude:	-103.946490
		Ground Level:	3,133.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	2/21/2019	6.940
			Dip Angle (°)
			59.907
			Field Strength (nT)
			47,680

Design	PERMIT		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			269.95

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,135.00	0.00	0.00	4,135.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,385.20	5.00	47.87	4,384.88	7.32	8.10	2.00	2.00	0.00	47.867	
10,055.07	5.00	47.87	10,033.14	339.10	374.85	0.00	0.00	0.00	0.000	
11,002.94	91.08	269.95	10,642.00	375.00	-207.70	10.00	9.08	-14.55	-137.745	Tombstone 11 #12!
15,657.87	91.08	269.95	10,554.45	370.91	-4,861.80	0.00	0.00	0.00	0.000	Tombstone 11 #12!
15,787.89	91.08	269.95	10,552.00	370.80	-4,991.80	0.00	0.00	0.00	0.000	Tombstone 11 #12!



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Local Co-ordinate Reference: Well #125H
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MD Reference: GL @ 3133.00usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tombstone 11 #125H: SHL (2055' FSL & 125' FEL)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
692.00	0.00	0.00	692.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
972.00	0.00	0.00	972.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado (Top of Salt)									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,078.00	0.00	0.00	3,078.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,284.00	0.00	0.00	3,284.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware (Bell Canyon)									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,135.00	0.00	0.00	4,135.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.30	47.87	4,199.99	0.49	0.55	-0.55	2.00	2.00	0.00
4,206.01	1.42	47.87	4,206.00	0.59	0.65	-0.65	2.00	2.00	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									
4,300.00	3.30	47.87	4,299.91	3.19	3.52	-3.53	2.00	2.00	0.00
4,385.20	5.00	47.87	4,384.88	7.32	8.10	-8.10	2.00	2.00	0.00
4,400.00	5.00	47.87	4,399.63	8.19	9.05	-9.06	0.00	0.00	0.00
4,500.00	5.00	47.87	4,499.24	14.04	15.52	-15.54	0.00	0.00	0.00
4,600.00	5.00	47.87	4,598.86	19.89	21.99	-22.01	0.00	0.00	0.00
4,700.00	5.00	47.87	4,698.48	25.75	28.46	-28.48	0.00	0.00	0.00
4,800.00	5.00	47.87	4,798.10	31.60	34.93	-34.96	0.00	0.00	0.00
4,900.00	5.00	47.87	4,897.72	37.45	41.40	-41.43	0.00	0.00	0.00
5,000.00	5.00	47.87	4,997.34	43.30	47.86	-47.90	0.00	0.00	0.00
5,100.00	5.00	47.87	5,096.96	49.15	54.33	-54.38	0.00	0.00	0.00
5,200.00	5.00	47.87	5,196.58	55.00	60.80	-60.85	0.00	0.00	0.00
5,300.00	5.00	47.87	5,296.20	60.85	67.27	-67.32	0.00	0.00	0.00
5,400.00	5.00	47.87	5,395.81	66.71	73.74	-73.80	0.00	0.00	0.00
5,500.00	5.00	47.87	5,495.43	72.56	80.21	-80.27	0.00	0.00	0.00
5,600.00	5.00	47.87	5,595.05	78.41	86.68	-86.74	0.00	0.00	0.00
5,700.00	5.00	47.87	5,694.67	84.26	93.14	-93.22	0.00	0.00	0.00
5,800.00	5.00	47.87	5,794.29	90.11	99.61	-99.69	0.00	0.00	0.00
5,812.76	5.00	47.87	5,807.00	90.86	100.44	-100.52	0.00	0.00	0.00
Brushy Canyon									
5,900.00	5.00	47.87	5,893.91	95.96	106.08	-106.16	0.00	0.00	0.00
6,000.00	5.00	47.87	5,993.53	101.81	112.55	-112.64	0.00	0.00	0.00
6,100.00	5.00	47.87	6,093.15	107.67	119.02	-119.11	0.00	0.00	0.00
6,200.00	5.00	47.87	6,192.77	113.52	125.49	-125.58	0.00	0.00	0.00
6,300.00	5.00	47.87	6,292.38	119.37	131.95	-132.06	0.00	0.00	0.00
6,400.00	5.00	47.87	6,392.00	125.22	138.42	-138.53	0.00	0.00	0.00
6,500.00	5.00	47.87	6,491.62	131.07	144.89	-145.00	0.00	0.00	0.00
6,600.00	5.00	47.87	6,591.24	136.92	151.36	-151.48	0.00	0.00	0.00
6,700.00	5.00	47.87	6,690.86	142.77	157.83	-157.95	0.00	0.00	0.00
6,800.00	5.00	47.87	6,790.48	148.63	164.30	-164.43	0.00	0.00	0.00
6,866.78	5.00	47.87	6,857.00	152.53	168.61	-168.75	0.00	0.00	0.00
Basal Brushy Canyon									
6,900.00	5.00	47.87	6,890.10	154.48	170.76	-170.90	0.00	0.00	0.00
7,000.00	5.00	47.87	6,989.72	160.33	177.23	-177.37	0.00	0.00	0.00
7,081.59	5.00	47.87	7,071.00	165.10	182.51	-182.65	0.00	0.00	0.00
Bone Spring Lime									
7,100.00	5.00	47.87	7,089.34	166.18	183.70	-183.85	0.00	0.00	0.00
7,200.00	5.00	47.87	7,188.95	172.03	190.17	-190.32	0.00	0.00	0.00
7,300.00	5.00	47.87	7,288.57	177.88	196.64	-196.79	0.00	0.00	0.00
7,400.00	5.00	47.87	7,388.19	183.73	203.11	-203.27	0.00	0.00	0.00
7,500.00	5.00	47.87	7,487.81	189.59	209.57	-209.74	0.00	0.00	0.00
7,600.00	5.00	47.87	7,587.43	195.44	216.04	-216.21	0.00	0.00	0.00
7,700.00	5.00	47.87	7,687.05	201.29	222.51	-222.69	0.00	0.00	0.00
7,800.00	5.00	47.87	7,786.67	207.14	228.98	-229.16	0.00	0.00	0.00
7,900.00	5.00	47.87	7,886.29	212.99	235.45	-235.63	0.00	0.00	0.00
7,972.99	5.00	47.87	7,959.00	217.26	240.17	-240.36	0.00	0.00	0.00
1st Bone Spring Lime									
8,000.00	5.00	47.87	7,985.91	218.84	241.92	-242.11	0.00	0.00	0.00
8,038.24	5.00	47.87	8,024.00	221.08	244.39	-244.58	0.00	0.00	0.00
1st Bone Spring Sand									
8,100.00	5.00	47.87	8,085.52	224.70	248.38	-248.58	0.00	0.00	0.00
8,200.00	5.00	47.87	8,185.14	230.55	254.85	-255.05	0.00	0.00	0.00
8,300.00	5.00	47.87	8,284.76	236.40	261.32	-261.53	0.00	0.00	0.00



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8,400.00	5.00	47.87	8,384.38	242.25	267.79	-268.00	0.00	0.00	0.00
8,478.92	5.00	47.87	8,463.00	246.87	272.89	-273.11	0.00	0.00	0.00
2nd Bone Spring Lime									
8,500.00	5.00	47.87	8,484.00	248.10	274.26	-274.47	0.00	0.00	0.00
8,600.00	5.00	47.87	8,583.62	253.95	280.73	-280.95	0.00	0.00	0.00
8,700.00	5.00	47.87	8,683.24	259.80	287.19	-287.42	0.00	0.00	0.00
8,800.00	5.00	47.87	8,782.86	265.66	293.66	-293.89	0.00	0.00	0.00
8,863.39	5.00	47.87	8,846.00	269.36	297.76	-298.00	0.00	0.00	0.00
2nd Bone Spring Sand									
8,900.00	5.00	47.87	8,882.48	271.51	300.13	-300.37	0.00	0.00	0.00
9,000.00	5.00	47.87	8,982.09	277.36	306.60	-306.84	0.00	0.00	0.00
9,100.00	5.00	47.87	9,081.71	283.21	313.07	-313.32	0.00	0.00	0.00
9,110.33	5.00	47.87	9,092.00	283.81	313.74	-313.98	0.00	0.00	0.00
3rd Bone Spring Lime									
9,200.00	5.00	47.87	9,181.33	289.06	319.54	-319.79	0.00	0.00	0.00
9,300.00	5.00	47.87	9,280.95	294.91	326.00	-326.26	0.00	0.00	0.00
9,400.00	5.00	47.87	9,380.57	300.76	332.47	-332.74	0.00	0.00	0.00
9,500.00	5.00	47.87	9,480.19	306.62	338.94	-339.21	0.00	0.00	0.00
9,600.00	5.00	47.87	9,579.81	312.47	345.41	-345.68	0.00	0.00	0.00
9,700.00	5.00	47.87	9,679.43	318.32	351.88	-352.16	0.00	0.00	0.00
9,800.00	5.00	47.87	9,779.05	324.17	358.35	-358.63	0.00	0.00	0.00
9,900.00	5.00	47.87	9,878.66	330.02	364.82	-365.10	0.00	0.00	0.00
9,935.47	5.00	47.87	9,914.00	332.10	367.11	-367.40	0.00	0.00	0.00
3rd Bone Spring Sand									
10,000.00	5.00	47.87	9,978.28	335.87	371.28	-371.58	0.00	0.00	0.00
10,055.07	5.00	47.87	10,033.14	339.10	374.85	-375.14	0.00	0.00	0.00
10,100.00	3.45	346.86	10,077.97	341.73	375.99	-376.29	10.00	-3.45	-135.78
10,150.00	6.69	300.08	10,127.79	344.66	373.13	-373.43	10.00	6.47	-93.56
10,200.00	11.29	287.13	10,177.16	347.56	365.93	-366.23	10.00	9.21	-25.91
10,250.00	16.13	281.73	10,225.73	350.41	354.44	-354.75	10.00	9.68	-10.78
10,291.34	20.19	279.21	10,265.00	352.73	341.77	-342.08	10.00	9.82	-6.11
Wolfcamp									
10,300.00	21.04	278.80	10,273.10	353.20	338.76	-339.07	10.00	9.86	-4.73
10,350.00	25.99	276.94	10,318.94	355.90	319.00	-319.31	10.00	9.89	-3.72
10,400.00	30.95	275.64	10,362.88	358.49	295.31	-295.63	10.00	9.92	-2.60
10,450.00	35.92	274.66	10,404.59	360.94	267.88	-268.20	10.00	9.94	-1.94
10,456.71	36.59	274.55	10,410.00	361.26	263.93	-264.24	10.00	9.95	-1.68
Wolfcamp A									
10,500.00	40.90	273.90	10,443.76	363.25	236.91	-237.23	10.00	9.96	-1.50
10,550.00	45.88	273.28	10,480.08	365.39	202.64	-202.96	10.00	9.96	-1.25
10,600.00	50.87	272.75	10,513.28	367.35	165.33	-165.65	10.00	9.97	-1.05
10,650.00	55.85	272.30	10,543.11	369.11	125.27	-125.59	10.00	9.97	-0.91
10,700.00	60.84	271.89	10,569.35	370.67	82.75	-83.07	10.00	9.98	-0.81
10,750.00	65.83	271.52	10,591.78	371.99	38.10	-38.42	10.00	9.98	-0.74
10,800.00	70.82	271.18	10,610.24	373.09	-8.34	8.01	10.00	9.98	-0.68
10,850.00	75.81	270.86	10,624.59	373.94	-56.21	55.89	10.00	9.98	-0.64
10,900.00	80.80	270.56	10,634.72	374.55	-105.15	104.83	10.00	9.98	-0.61
10,950.00	85.79	270.26	10,640.55	374.90	-154.80	154.47	10.00	9.98	-0.60
11,002.94	91.08	269.95	10,642.00	375.00	-207.70	207.37	10.00	9.98	-0.59
LP - Tombstone 11 #125H: FTP/ LP									
11,100.00	91.08	269.95	10,640.17	374.91	-304.74	304.41	0.00	0.00	0.00
11,200.00	91.08	269.95	10,638.29	374.83	-404.72	404.39	0.00	0.00	0.00
11,300.00	91.08	269.95	10,636.41	374.74	-504.70	504.38	0.00	0.00	0.00



www.prototypewellplanning.com
Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #125H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well #125H
TVD Reference: GL @ 3133.00usft
MD Reference: GL @ 3133.00usft
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)
11,400.00	91.08	269.95	10,634.53	374.65	-604.69	604.36	0.00	0.00	0.00
11,500.00	91.08	269.95	10,632.65	374.56	-704.67	704.34	0.00	0.00	0.00
11,600.00	91.08	269.95	10,630.77	374.48	-804.65	804.32	0.00	0.00	0.00
11,700.00	91.08	269.95	10,628.89	374.39	-904.63	904.31	0.00	0.00	0.00
11,800.00	91.08	269.95	10,627.01	374.30	-1,004.62	1,004.29	0.00	0.00	0.00
11,900.00	91.08	269.95	10,625.13	374.21	-1,104.60	1,104.27	0.00	0.00	0.00
12,000.00	91.08	269.95	10,623.25	374.12	-1,204.58	1,204.25	0.00	0.00	0.00
12,100.00	91.08	269.95	10,621.37	374.04	-1,304.56	1,304.24	0.00	0.00	0.00
12,200.00	91.08	269.95	10,619.48	373.95	-1,404.54	1,404.22	0.00	0.00	0.00
12,300.00	91.08	269.95	10,617.60	373.86	-1,504.53	1,504.20	0.00	0.00	0.00
12,400.00	91.08	269.95	10,615.72	373.77	-1,604.51	1,604.18	0.00	0.00	0.00
12,500.00	91.08	269.95	10,613.84	373.69	-1,704.49	1,704.16	0.00	0.00	0.00
12,600.00	91.08	269.95	10,611.96	373.60	-1,804.47	1,804.15	0.00	0.00	0.00
12,700.00	91.08	269.95	10,610.08	373.51	-1,904.46	1,904.13	0.00	0.00	0.00
12,800.00	91.08	269.95	10,608.20	373.42	-2,004.44	2,004.11	0.00	0.00	0.00
12,900.00	91.08	269.95	10,606.32	373.33	-2,104.42	2,104.09	0.00	0.00	0.00
13,000.00	91.08	269.95	10,604.44	373.25	-2,204.40	2,204.08	0.00	0.00	0.00
13,100.00	91.08	269.95	10,602.56	373.16	-2,304.39	2,304.06	0.00	0.00	0.00
13,200.00	91.08	269.95	10,600.68	373.07	-2,404.37	2,404.04	0.00	0.00	0.00
13,300.00	91.08	269.95	10,598.79	372.98	-2,504.35	2,504.02	0.00	0.00	0.00
13,400.00	91.08	269.95	10,596.91	372.90	-2,604.33	2,604.01	0.00	0.00	0.00
13,500.00	91.08	269.95	10,595.03	372.81	-2,704.31	2,703.99	0.00	0.00	0.00
13,600.00	91.08	269.95	10,593.15	372.72	-2,804.30	2,803.97	0.00	0.00	0.00
13,700.00	91.08	269.95	10,591.27	372.63	-2,904.28	2,903.95	0.00	0.00	0.00
13,800.00	91.08	269.95	10,589.39	372.54	-3,004.26	3,003.94	0.00	0.00	0.00
13,900.00	91.08	269.95	10,587.51	372.46	-3,104.24	3,103.92	0.00	0.00	0.00
14,000.00	91.08	269.95	10,585.63	372.37	-3,204.23	3,203.90	0.00	0.00	0.00
14,100.00	91.08	269.95	10,583.75	372.28	-3,304.21	3,303.88	0.00	0.00	0.00
14,200.00	91.08	269.95	10,581.87	372.19	-3,404.19	3,403.86	0.00	0.00	0.00
14,300.00	91.08	269.95	10,579.99	372.11	-3,504.17	3,503.85	0.00	0.00	0.00
14,400.00	91.08	269.95	10,578.11	372.02	-3,604.15	3,603.83	0.00	0.00	0.00
14,500.00	91.08	269.95	10,576.22	371.93	-3,704.14	3,703.81	0.00	0.00	0.00
14,600.00	91.08	269.95	10,574.34	371.84	-3,804.12	3,803.79	0.00	0.00	0.00
14,700.00	91.08	269.95	10,572.46	371.75	-3,904.10	3,903.78	0.00	0.00	0.00
14,800.00	91.08	269.95	10,570.58	371.67	-4,004.08	4,003.76	0.00	0.00	0.00
14,900.00	91.08	269.95	10,568.70	371.58	-4,104.07	4,103.74	0.00	0.00	0.00
15,000.00	91.08	269.95	10,566.82	371.49	-4,204.05	4,203.72	0.00	0.00	0.00
15,100.00	91.08	269.95	10,564.94	371.40	-4,304.03	4,303.71	0.00	0.00	0.00
15,200.00	91.08	269.95	10,563.06	371.32	-4,404.01	4,403.69	0.00	0.00	0.00
15,300.00	91.08	269.95	10,561.18	371.23	-4,504.00	4,503.67	0.00	0.00	0.00
15,400.00	91.08	269.95	10,559.30	371.14	-4,603.98	4,603.65	0.00	0.00	0.00
15,500.00	91.08	269.95	10,557.42	371.05	-4,703.96	4,703.63	0.00	0.00	0.00
15,600.00	91.08	269.95	10,555.53	370.96	-4,803.94	4,803.62	0.00	0.00	0.00
15,657.87	91.08	269.95	10,554.45	370.91	-4,861.80	4,861.47	0.00	0.00	0.00
Tombstone 11 #125H: LTP									
15,700.00	91.08	269.95	10,553.65	370.88	-4,903.92	4,903.60	0.00	0.00	0.00
15,787.89	91.08	269.95	10,552.00	370.80	-4,991.80	4,991.47	0.00	0.00	0.00
Tombstone 11 #125H: PBHL (2430' FSL & 200' FWL)									



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Tombstone 11 State
 Well: #125H
 Wellbore: Wellbore #1
 Design: PERMIT

Local Co-ordinate Reference: Well #125H
 TVD Reference: GL @ 3133.00usft
 MD Reference: GL @ 3133.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Tombstone 11 #125H - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	415,907.50	619,733.60	32.142855	-103.946490
Tombstone 11 #125H - plan hits target center - Point	0.00	0.01	10,552.00	370.80	-4,991.80	416,278.30	614,741.80	32.143923	-103.962613
Tombstone 11 #125H - plan misses target center by 0.19usft at 15657.87usft MD (10554.45 TVD, 370.91 N, -4861.80 E) - Point	0.00	0.01	10,554.45	371.10	-4,861.80	416,278.60	614,871.80	32.143923	-103.962193
Tombstone 11 #125H - plan hits target center - Point	0.00	0.01	10,642.00	375.00	-207.70	416,282.50	619,525.90	32.143888	-103.947157

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
692.00	692.00	Rustler			
972.00	972.00	Salado (Top of Salt)			
3,078.00	3,078.00	Base of Salt			
3,284.00	3,284.00	Delaware (Bell Canyon)			
4,206.01	4,206.00	Cherry Canyon			
5,812.76	5,807.00	Brushy Canyon			
6,866.78	6,857.00	Basal Brushy Canyon			
7,081.59	7,071.00	Bone Spring Lime			
7,972.99	7,959.00	1st Bone Spring Lime			
8,038.24	8,024.00	1st Bone Spring Sand			
8,478.92	8,463.00	2nd Bone Spring Lime			
8,863.39	8,846.00	2nd Bone Spring Sand			
9,110.33	9,092.00	3rd Bone Spring Lime			
9,935.47	9,914.00	3rd Bone Spring Sand			
10,291.34	10,265.00	Wolfcamp			
10,456.71	10,410.00	Wolfcamp A			
11,002.94	10,642.00	LP			