



XTO Energy

Eddy County, NM (NAD-27)

Tombstone 11 State

707H

OH

Plan: PERMIT

Standard Planning Report

21 February, 2019



Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: 707H
Wellbore: OH
Design: PERMIT

WELL DETAILS: 707H

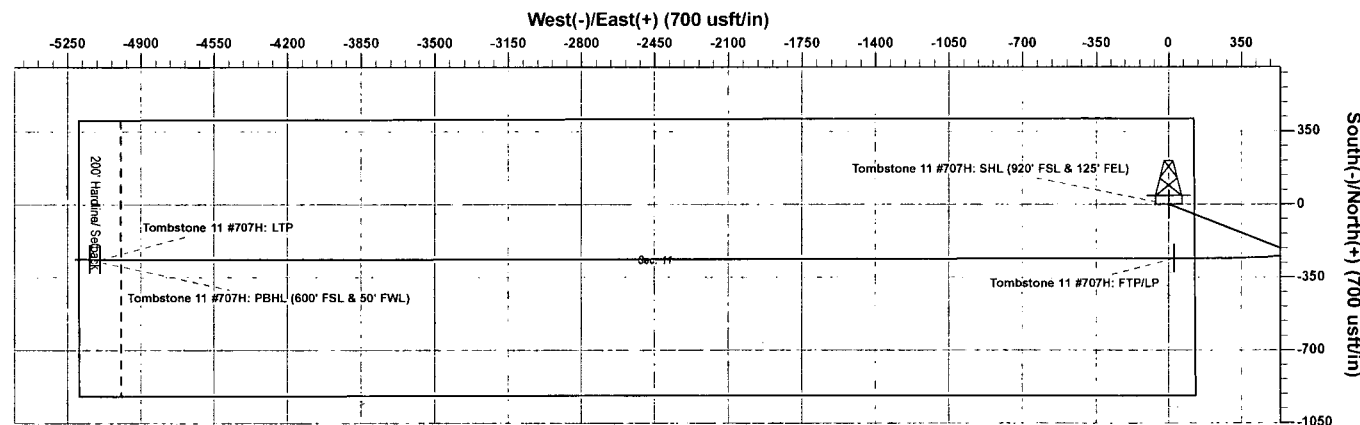
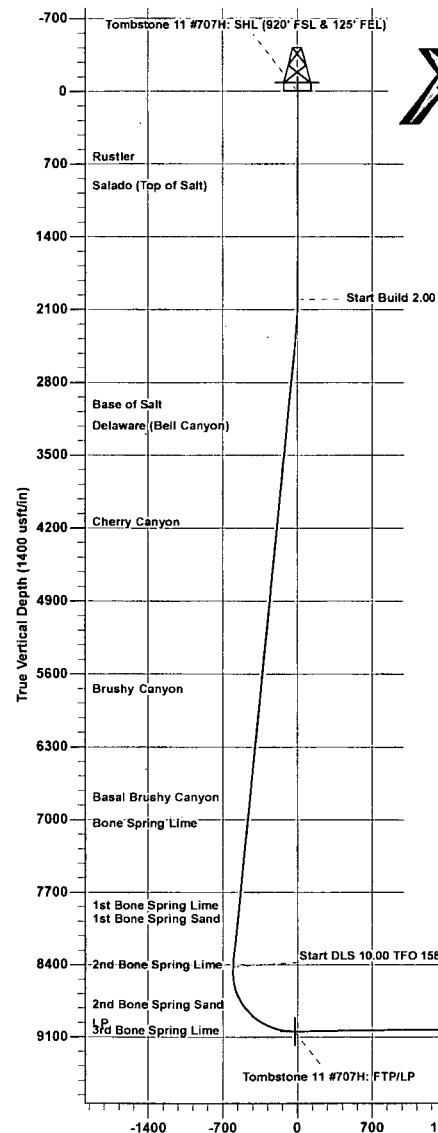
Rig Name:
GL @ 3142.00usft
Ground Level: 3142.00
Northing 414772.40
Easting 619741.70
Latitude 32.139735
Longitude -103.946477

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	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00
3	2295.70	5.91	111.25	2295.18	-5.53	14.21	2.00	111.250	-14.21
4	8451.85	5.91	111.25	8418.56	-235.43	605.39	0.00	0.000	-605.19
5	9415.24	90.83	269.95	9046.00	-259.90	26.80	10.00	158.564	-26.57
6	14537.68	90.83	269.95	8971.73	-264.46	-5095.10	0.00	0.000	5095.33
7	14587.68	90.83	269.95	8971.00	-264.50	-5145.10	0.00	0.000	5145.33

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
Tombstone 11 #707H: SHL (920' FSL & 125' FEL)	0.00	0.00	0.00	414772.40	619741.70	32.139735	-103.946477	Point
Tombstone 11 #707H: PBHL (600' FSL & 50' FWL)	8971.00	-264.50	-5145.10	414507.90	614598.50	32.139057	-103.963102	Point
Tombstone 11 #707H: LTP	8971.73	-264.40	-5095.10	414508.00	614646.50	32.139057	-103.962940	Point
Tombstone 11 #707H: FTP/LP	9046.00	-259.90	26.80	414512.50	619788.50	32.139020	-103.946393	Point



FORMATION TOP DETAILS

TVDPath	Formation
705.00	Rustler
964.00	Salado (Top of Salt)
3089.00	Base of Salt
3291.00	Delaware (Bell Canyon)
4214.00	Cherry Canyon
5819.00	Brushy Canyon
6860.00	Basal Brushy Canyon
7109.00	Bone Spring Lime
7971.00	1st Bone Spring Sand
8032.00	2nd Bone Spring Sand
8473.00	3rd Bone Spring Sand
8859.00	LP
9046.00	LP

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

The customer should only rely on this document after independently verifying all points, targets, coordinates, lease and hand 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.

Vertical Section at 269.95° (1400 usft/in)

Plan: PERMIT (707H/OH)

Created By: Matthew May Date: 13:32, February 21 2019



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: 707H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well 707H
TVD Reference: GL @ 3142.00usft
MD Reference: GL @ 3142.00usft
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	707H		
Well Position	+N/-S	-3,455.80 usft	Northing:
	+E/-W	24.50 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.139735
		Longitude:	-103.946477
		Ground Level:	3,142.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	2/21/2019	6.940
			Dip Angle
			(°)
			59.904
			Field Strength
			(nT)
			47,678

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

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,295.70	5.91	111.25	2,295.18	-5.53	14.21	2.00	2.00	0.00	111.250	
8,451.85	5.91	111.25	8,418.56	-235.43	605.39	0.00	0.00	0.00	0.000	
9,415.24	90.83	269.95	9,046.00	-259.90	26.80	10.00	8.81	16.47	158.564	Tombstone 11 #70;
14,537.68	90.83	269.95	8,971.73	-264.46	-5,095.10	0.00	0.00	0.00	0.000	Tombstone 11 #70;
14,587.68	90.83	269.95	8,971.00	-264.50	-5,145.10	0.00	0.00	0.00	0.000	Tombstone 11 #70;



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 TVD Reference: GL @ 3142.00usft
 MD Reference: GL @ 3142.00usft
 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 #707H: SHL (920' 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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
705.00	0.00	0.00	705.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
984.00	0.00	0.00	984.00	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	2.00	111.25	2,099.98	-0.63	1.63	-1.63	2.00	2.00	0.00
2,200.00	4.00	111.25	2,199.84	-2.53	6.50	-6.50	2.00	2.00	0.00
2,295.70	5.91	111.25	2,295.18	-5.53	14.21	-14.21	2.00	2.00	0.00
2,300.00	5.91	111.25	2,299.45	-5.69	14.62	-14.62	0.00	0.00	0.00
2,400.00	5.91	111.25	2,398.92	-9.42	24.23	-24.22	0.00	0.00	0.00
2,500.00	5.91	111.25	2,498.39	-13.16	33.83	-33.82	0.00	0.00	0.00
2,600.00	5.91	111.25	2,597.86	-16.89	43.43	-43.42	0.00	0.00	0.00
2,700.00	5.91	111.25	2,697.32	-20.62	53.04	-53.02	0.00	0.00	0.00
2,800.00	5.91	111.25	2,796.79	-24.36	62.64	-62.62	0.00	0.00	0.00
2,900.00	5.91	111.25	2,896.26	-28.09	72.24	-72.22	0.00	0.00	0.00
3,000.00	5.91	111.25	2,995.73	-31.83	81.85	-81.82	0.00	0.00	0.00
3,093.77	5.91	111.25	3,089.00	-35.33	90.85	-90.82	0.00	0.00	0.00
Base of Salt									
3,100.00	5.91	111.25	3,095.19	-35.56	91.45	-91.42	0.00	0.00	0.00
3,200.00	5.91	111.25	3,194.66	-39.30	101.05	-101.02	0.00	0.00	0.00
3,296.85	5.91	111.25	3,291.00	-42.91	110.35	-110.31	0.00	0.00	0.00
Delaware (Bell Canyon)									
3,300.00	5.91	111.25	3,294.13	-43.03	110.65	-110.62	0.00	0.00	0.00
3,400.00	5.91	111.25	3,393.60	-46.77	120.26	-120.22	0.00	0.00	0.00
3,500.00	5.91	111.25	3,493.07	-50.50	129.86	-129.82	0.00	0.00	0.00
3,600.00	5.91	111.25	3,592.53	-54.23	139.46	-139.42	0.00	0.00	0.00
3,700.00	5.91	111.25	3,692.00	-57.97	149.07	-149.02	0.00	0.00	0.00
3,800.00	5.91	111.25	3,791.47	-61.70	158.67	-158.62	0.00	0.00	0.00
3,900.00	5.91	111.25	3,890.94	-65.44	168.27	-168.22	0.00	0.00	0.00
4,000.00	5.91	111.25	3,990.40	-69.17	177.88	-177.82	0.00	0.00	0.00
4,100.00	5.91	111.25	4,089.87	-72.91	187.48	-187.42	0.00	0.00	0.00
4,200.00	5.91	111.25	4,189.34	-76.64	197.08	-197.02	0.00	0.00	0.00
4,224.79	5.91	111.25	4,214.00	-77.57	199.46	-199.40	0.00	0.00	0.00



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Planned Survey

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Cherry Canyon									
4,300.00	5.91	111.25	4,288.81	-80.38	206.69	-206.62	0.00	0.00	0.00
4,400.00	5.91	111.25	4,388.28	-84.11	216.29	-216.22	0.00	0.00	0.00
4,500.00	5.91	111.25	4,487.74	-87.84	225.89	-225.82	0.00	0.00	0.00
4,600.00	5.91	111.25	4,587.21	-91.58	235.49	-235.41	0.00	0.00	0.00
4,700.00	5.91	111.25	4,686.68	-95.31	245.10	-245.01	0.00	0.00	0.00
4,800.00	5.91	111.25	4,786.15	-99.05	254.70	-254.61	0.00	0.00	0.00
4,900.00	5.91	111.25	4,885.61	-102.78	264.30	-264.21	0.00	0.00	0.00
5,000.00	5.91	111.25	4,985.08	-106.52	273.91	-273.81	0.00	0.00	0.00
5,100.00	5.91	111.25	5,084.55	-110.25	283.51	-283.41	0.00	0.00	0.00
5,200.00	5.91	111.25	5,184.02	-113.99	293.11	-293.01	0.00	0.00	0.00
5,300.00	5.91	111.25	5,283.49	-117.72	302.72	-302.61	0.00	0.00	0.00
5,400.00	5.91	111.25	5,382.95	-121.46	312.32	-312.21	0.00	0.00	0.00
5,500.00	5.91	111.25	5,482.42	-125.19	321.92	-321.81	0.00	0.00	0.00
5,600.00	5.91	111.25	5,581.89	-128.92	331.53	-331.41	0.00	0.00	0.00
5,700.00	5.91	111.25	5,681.36	-132.66	341.13	-341.01	0.00	0.00	0.00
5,800.00	5.91	111.25	5,780.82	-136.39	350.73	-350.61	0.00	0.00	0.00
5,838.38	5.91	111.25	5,819.00	-137.83	354.42	-354.30	0.00	0.00	0.00
Brushy Canyon									
5,900.00	5.91	111.25	5,880.29	-140.13	360.34	-360.21	0.00	0.00	0.00
6,000.00	5.91	111.25	5,979.76	-143.86	369.94	-369.81	0.00	0.00	0.00
6,100.00	5.91	111.25	6,079.23	-147.60	379.54	-379.41	0.00	0.00	0.00
6,200.00	5.91	111.25	6,178.69	-151.33	389.14	-389.01	0.00	0.00	0.00
6,300.00	5.91	111.25	6,278.16	-155.07	398.75	-398.61	0.00	0.00	0.00
6,400.00	5.91	111.25	6,377.63	-158.80	408.35	-408.21	0.00	0.00	0.00
6,500.00	5.91	111.25	6,477.10	-162.53	417.95	-417.81	0.00	0.00	0.00
6,600.00	5.91	111.25	6,576.57	-166.27	427.56	-427.41	0.00	0.00	0.00
6,700.00	5.91	111.25	6,676.03	-170.00	437.16	-437.01	0.00	0.00	0.00
6,800.00	5.91	111.25	6,775.50	-173.74	446.76	-446.61	0.00	0.00	0.00
6,884.95	5.91	111.25	6,860.00	-176.91	454.92	-454.77	0.00	0.00	0.00
Basal Brushy Canyon									
6,900.00	5.91	111.25	6,874.97	-177.47	456.37	-456.21	0.00	0.00	0.00
7,000.00	5.91	111.25	6,974.44	-181.21	465.97	-465.81	0.00	0.00	0.00
7,100.00	5.91	111.25	7,073.90	-184.94	475.57	-475.41	0.00	0.00	0.00
7,135.28	5.91	111.25	7,109.00	-186.26	478.96	-478.80	0.00	0.00	0.00
Bone Spring Lime									
7,200.00	5.91	111.25	7,173.37	-188.68	485.18	-485.01	0.00	0.00	0.00
7,300.00	5.91	111.25	7,272.84	-192.41	494.78	-494.61	0.00	0.00	0.00
7,400.00	5.91	111.25	7,372.31	-196.14	504.38	-504.21	0.00	0.00	0.00
7,500.00	5.91	111.25	7,471.78	-199.88	513.99	-513.81	0.00	0.00	0.00
7,600.00	5.91	111.25	7,571.24	-203.61	523.59	-523.41	0.00	0.00	0.00
7,700.00	5.91	111.25	7,670.71	-207.35	533.19	-533.01	0.00	0.00	0.00
7,800.00	5.91	111.25	7,770.18	-211.08	542.79	-542.61	0.00	0.00	0.00
7,900.00	5.91	111.25	7,869.65	-214.82	552.40	-552.21	0.00	0.00	0.00
8,000.00	5.91	111.25	7,969.11	-218.55	562.00	-561.81	0.00	0.00	0.00
8,001.90	5.91	111.25	7,971.00	-218.62	562.18	-561.99	0.00	0.00	0.00
1st Bone Spring Lime									
8,063.22	5.91	111.25	8,032.00	-220.91	568.07	-567.88	0.00	0.00	0.00
1st Bone Spring Sand									
8,100.00	5.91	111.25	8,068.58	-222.29	571.60	-571.41	0.00	0.00	0.00
8,200.00	5.91	111.25	8,168.05	-226.02	581.21	-581.01	0.00	0.00	0.00
8,300.00	5.91	111.25	8,267.52	-229.75	590.81	-590.61	0.00	0.00	0.00
8,400.00	5.91	111.25	8,366.99	-233.49	600.41	-600.21	0.00	0.00	0.00



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8,451.85	5.91	111.25	8,418.56	-235.43	605.39	-605.19	0.00	0.00	0.00
8,500.00	2.27	162.13	8,466.59	-237.23	608.00	-607.79	10.00	-7.58	105.66
8,506.41	2.16	178.57	8,473.00	-237.47	608.04	-607.83	10.00	-1.68	256.30
2nd Bone Spring Lime									
8,550.00	4.82	243.36	8,516.51	-239.12	606.42	-606.21	10.00	6.10	148.65
8,600.00	9.55	256.98	8,566.11	-240.99	600.50	-600.29	10.00	9.47	27.24
8,650.00	14.47	261.52	8,615.00	-242.85	590.28	-590.06	10.00	9.83	9.08
8,700.00	19.42	263.78	8,662.82	-244.67	575.83	-575.61	10.00	9.91	4.53
8,750.00	24.40	265.15	8,709.19	-246.45	557.26	-557.04	10.00	9.95	2.74
8,800.00	29.38	266.08	8,753.77	-248.16	534.72	-534.50	10.00	9.96	1.86
8,850.00	34.37	266.76	8,796.22	-249.80	508.38	-508.16	10.00	9.97	1.36
8,900.00	39.36	267.28	8,836.21	-251.35	478.43	-478.21	10.00	9.98	1.05
8,930.14	42.37	267.55	8,859.00	-252.23	458.74	-458.52	10.00	9.98	0.88
2nd Bone Spring Sand									
8,950.00	44.35	267.71	8,873.44	-252.80	445.11	-444.89	10.00	9.98	0.80
9,000.00	49.34	268.06	8,907.63	-254.14	408.67	-408.45	10.00	9.99	0.71
9,050.00	54.34	268.37	8,938.51	-255.36	369.39	-369.17	10.00	9.99	0.61
9,100.00	59.33	268.64	8,965.86	-256.45	327.56	-327.34	10.00	9.99	0.54
9,150.00	64.33	268.88	8,989.46	-257.40	283.51	-283.28	10.00	9.99	0.49
9,200.00	69.32	269.10	9,009.13	-258.21	237.57	-237.34	10.00	9.99	0.45
9,250.00	74.32	269.31	9,024.72	-258.86	190.08	-189.86	10.00	9.99	0.42
9,300.00	79.32	269.51	9,036.12	-259.36	141.42	-141.19	10.00	9.99	0.40
9,350.00	84.31	269.70	9,043.24	-259.70	91.94	-91.72	10.00	9.99	0.38
9,398.61	89.17	269.89	9,046.00	-259.88	43.43	-43.20	10.00	9.99	0.38
LP									
9,400.00	89.31	269.89	9,046.02	-259.88	42.04	-41.81	10.00	9.99	0.38
9,415.24	90.83	269.95	9,046.00	-259.90	26.80	-26.57	10.00	9.99	0.38
Tombstone 11 #707H: FTP/LP									
9,500.00	90.83	269.95	9,044.77	-259.98	-57.95	58.18	0.00	0.00	0.00
9,600.00	90.83	269.95	9,043.32	-260.06	-157.94	158.17	0.00	0.00	0.00
9,700.00	90.83	269.95	9,041.87	-260.15	-257.93	258.16	0.00	0.00	0.00
9,800.00	90.83	269.95	9,040.42	-260.24	-357.92	358.15	0.00	0.00	0.00
9,900.00	90.83	269.95	9,038.97	-260.33	-457.91	458.14	0.00	0.00	0.00
10,000.00	90.83	269.95	9,037.52	-260.42	-557.90	558.13	0.00	0.00	0.00
10,100.00	90.83	269.95	9,036.07	-260.51	-657.89	658.12	0.00	0.00	0.00
10,200.00	90.83	269.95	9,034.62	-260.60	-757.88	758.11	0.00	0.00	0.00
10,300.00	90.83	269.95	9,033.17	-260.69	-857.87	858.10	0.00	0.00	0.00
10,400.00	90.83	269.95	9,031.72	-260.78	-957.86	958.09	0.00	0.00	0.00
10,500.00	90.83	269.95	9,030.27	-260.86	-1,057.85	1,058.08	0.00	0.00	0.00
10,600.00	90.83	269.95	9,028.82	-260.95	-1,157.84	1,158.06	0.00	0.00	0.00
10,700.00	90.83	269.95	9,027.37	-261.04	-1,257.83	1,258.05	0.00	0.00	0.00
10,800.00	90.83	269.95	9,025.92	-261.13	-1,357.82	1,358.04	0.00	0.00	0.00
10,900.00	90.83	269.95	9,024.47	-261.22	-1,457.81	1,458.03	0.00	0.00	0.00
11,000.00	90.83	269.95	9,023.02	-261.31	-1,557.80	1,558.02	0.00	0.00	0.00
11,100.00	90.83	269.95	9,021.57	-261.40	-1,657.78	1,658.01	0.00	0.00	0.00
11,200.00	90.83	269.95	9,020.12	-261.49	-1,757.77	1,758.00	0.00	0.00	0.00
11,300.00	90.83	269.95	9,018.67	-261.58	-1,857.76	1,857.99	0.00	0.00	0.00
11,400.00	90.83	269.95	9,017.22	-261.67	-1,957.75	1,957.98	0.00	0.00	0.00
11,500.00	90.83	269.95	9,015.77	-261.75	-2,057.74	2,057.97	0.00	0.00	0.00
11,600.00	90.83	269.95	9,014.32	-261.84	-2,157.73	2,157.96	0.00	0.00	0.00
11,700.00	90.83	269.95	9,012.87	-261.93	-2,257.72	2,257.95	0.00	0.00	0.00
11,800.00	90.83	269.95	9,011.42	-262.02	-2,357.71	2,357.94	0.00	0.00	0.00
11,900.00	90.83	269.95	9,009.97	-262.11	-2,457.70	2,457.93	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Tombstone 11 State
 Well: 707H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well 707H
 TVD Reference: GL @ 3142.00usft
 MD Reference: GL @ 3142.00usft
 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)
12,000.00	90.83	269.95	9,008.52	-262.20	-2,557.69	2,557.92	0.00	0.00	0.00
12,100.00	90.83	269.95	9,007.07	-262.29	-2,657.68	2,657.91	0.00	0.00	0.00
12,200.00	90.83	269.95	9,005.62	-262.38	-2,757.67	2,757.90	0.00	0.00	0.00
12,300.00	90.83	269.95	9,004.17	-262.47	-2,857.66	2,857.89	0.00	0.00	0.00
12,400.00	90.83	269.95	9,002.72	-262.55	-2,957.65	2,957.88	0.00	0.00	0.00
12,500.00	90.83	269.95	9,001.27	-262.64	-3,057.64	3,057.87	0.00	0.00	0.00
12,600.00	90.83	269.95	8,999.82	-262.73	-3,157.63	3,157.85	0.00	0.00	0.00
12,700.00	90.83	269.95	8,998.37	-262.82	-3,257.62	3,257.84	0.00	0.00	0.00
12,800.00	90.83	269.95	8,996.92	-262.91	-3,357.61	3,357.83	0.00	0.00	0.00
12,900.00	90.83	269.95	8,995.47	-263.00	-3,457.60	3,457.82	0.00	0.00	0.00
13,000.00	90.83	269.95	8,994.02	-263.09	-3,557.58	3,557.81	0.00	0.00	0.00
13,100.00	90.83	269.95	8,992.57	-263.18	-3,657.57	3,657.80	0.00	0.00	0.00
13,200.00	90.83	269.95	8,991.12	-263.27	-3,757.56	3,757.79	0.00	0.00	0.00
13,300.00	90.83	269.95	8,989.67	-263.35	-3,857.55	3,857.78	0.00	0.00	0.00
13,400.00	90.83	269.95	8,988.22	-263.44	-3,957.54	3,957.77	0.00	0.00	0.00
13,500.00	90.83	269.95	8,986.77	-263.53	-4,057.53	4,057.76	0.00	0.00	0.00
13,600.00	90.83	269.95	8,985.32	-263.62	-4,157.52	4,157.75	0.00	0.00	0.00
13,700.00	90.83	269.95	8,983.87	-263.71	-4,257.51	4,257.74	0.00	0.00	0.00
13,800.00	90.83	269.95	8,982.42	-263.80	-4,357.50	4,357.73	0.00	0.00	0.00
13,900.00	90.83	269.95	8,980.97	-263.89	-4,457.49	4,457.72	0.00	0.00	0.00
14,000.00	90.83	269.95	8,979.52	-263.98	-4,557.48	4,557.71	0.00	0.00	0.00
14,100.00	90.83	269.95	8,978.07	-264.07	-4,657.47	4,657.70	0.00	0.00	0.00
14,200.00	90.83	269.95	8,976.62	-264.16	-4,757.46	4,757.69	0.00	0.00	0.00
14,300.00	90.83	269.95	8,975.17	-264.24	-4,857.45	4,857.68	0.00	0.00	0.00
14,400.00	90.83	269.95	8,973.72	-264.33	-4,957.44	4,957.67	0.00	0.00	0.00
14,500.00	90.83	269.95	8,972.27	-264.42	-5,057.43	5,057.66	0.00	0.00	0.00
14,537.68	90.83	269.95	8,971.73	-264.46	-5,095.10	5,095.33	0.00	0.00	0.00
Tombstone 11 #707H: LTP									
14,587.68	90.83	269.95	8,971.00	-264.50	-5,145.10	5,145.33	0.00	0.00	0.00
Tombstone 11 #707H: PBHL (600' FSL & 50' FWL)									

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									
Tombstone 11 #707H	0.00	0.00	0.00	0.00	0.00	414,772.40	619,741.70	32.139735	-103.946477
- plan hits target center									
- Point									
Tombstone 11 #707H	0.00	0.01	8,971.00	-264.50	-5,145.10	414,507.90	614,596.60	32.139057	-103.963102
- plan hits target center									
- Point									
Tombstone 11 #707H	0.00	0.00	8,971.73	-264.40	-5,095.10	414,508.00	614,646.60	32.139057	-103.962941
- plan misses target center by 0.06usft at 14537.68usft MD (8971.73 TVD, -264.46 N, -5095.10 E)									
- Point									
Tombstone 11 #707H	0.00	0.00	9,046.00	-259.90	26.80	414,512.50	619,768.50	32.139020	-103.946393
- plan hits target center									
- Point									



Database: EDM 5000.1 Single User Db
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Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: 707H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well 707H
TVD Reference: GL @ 3142.00usft
MD Reference: GL @ 3142.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
705.00	705.00	Rustler			
984.00	984.00	Salado (Top of Salt)			
3,093.77	3,089.00	Base of Salt			
3,296.85	3,291.00	Delaware (Bell Canyon)			
4,224.79	4,214.00	Cherry Canyon			
5,838.38	5,819.00	Brushy Canyon			
6,884.95	6,860.00	Basal Brushy Canyon			
7,135.28	7,109.00	Bone Spring Lime			
8,001.90	7,971.00	1st Bone Spring Lime			
8,063.22	8,032.00	1st Bone Spring Sand			
8,506.41	8,473.00	2nd Bone Spring Lime			
8,930.14	8,859.00	2nd Bone Spring Sand			
9,398.61	9,046.00	LP			