



XTO Energy

Eddy County, NM (NAD-27)

Tombstone 11 State

#105H

Wellbore #1

Plan: PERMIT

Standard Planning Report

21 February, 2019



Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #105H
Wellbore: Wellbore #1
Design: PERMIT

WELL DETAILS: #105H

Rig Name:
GL @ 3134.00usft
Ground Level: 3134.00
Easting
619733.80
Latitude
32.142773
Longitude
-103.946489

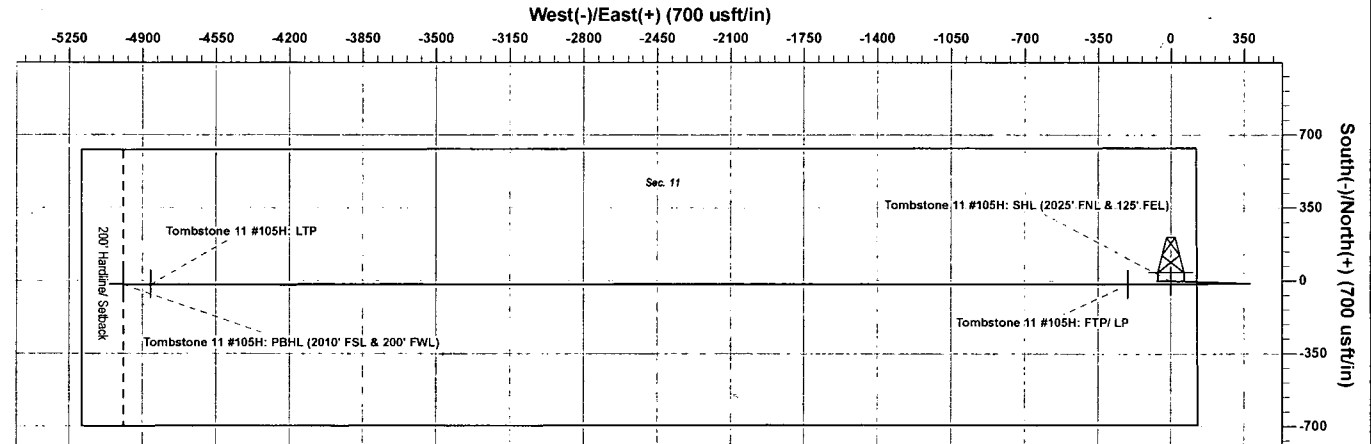
+N/-S
0.00
+E/-W
0.00
Northing
415877.50

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5335.00	0.00	0.00	5335.00	0.00	0.00	0.00	0.00	0.00
3	5584.97	5.00	91.92	5584.66	-0.36	10.89	2.00	91.917	-10.89
4	8777.50	5.00	91.92	8781.23	-12.59	376.05	0.00	0.000	-376.04
5	10737.84	91.02	269.95	10384.00	-15.00	-204.90	10.00	178.022	-204.91
6	15394.38	91.02	269.95	10301.31	-19.09	-4860.80	0.00	0.000	4860.91
7	15524.40	91.02	269.95	10299.00	-19.20	-4990.90	0.00	0.000	4990.91

DESIGN TARGET DETAILS

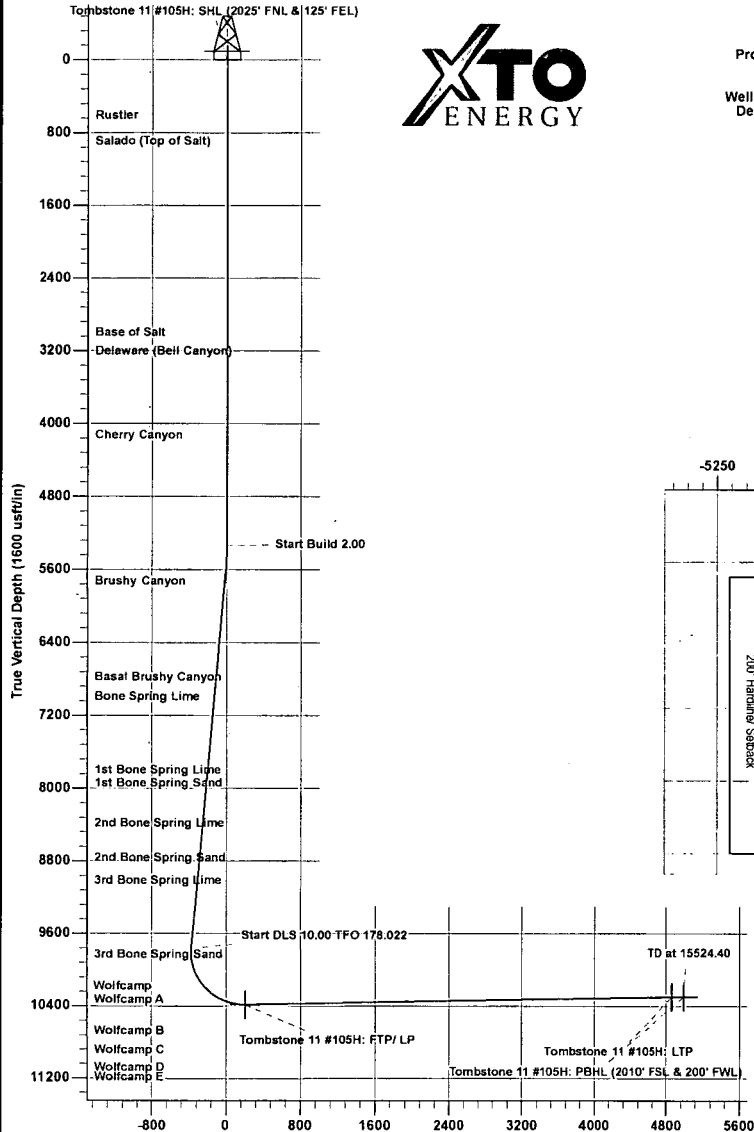
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Tombstone 11 #105H: SHL (2025' FNL & 125' FEL)	0.00	0.00	0.00	415877.50	619733.80	32.142773	-103.946489	Point
Tombstone 11 #105H: PBHL (2010' FSL & 200' FWL)	10299.00	-19.20	-4990.90	415858.30	614742.90	32.142788	-103.962614	Point
Tombstone 11 #105H: LTP	10301.31	19.10	-4860.80	415858.40	614872.90	32.142767	-103.962194	Point
Tombstone 11 #105H: FTP/LP	10384.00	-15.00	-204.90	415862.50	619528.90	32.142734	-103.947151	Point



FORMATION TOP DETAILS

TVDPATH	Formation
693.00	Rustler
973.00	Salado (Top of Salt)
3079.00	Base of Salt
3285.00	Delaware (Bell Canyon)
4207.00	Cherry Canyon
5808.00	Brushy Canyon
6858.00	Basal Brushy Canyon
7072.00	Bone Spring Lime
7960.00	1st Bone Spring Lime
8025.00	1st Bone Spring Sand
8464.00	2nd Bone Spring Lime
8647.00	2nd Bone Spring Sand
9093.00	3rd Bone Spring Lime
9915.00	3rd Bone Spring Sand
10266.00	Wolfcamp
10296.00	Wolfcamp X
10382.00	Wolfcamp Y
10384.00	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 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.

Vertical Section at 269.95° (1600 usft/in)

Plan: PERMIT (#105H/Wellbore #1)

Created By: Matthew May Date: 11:09, February 21 2019



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #105H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well #105H
TVD Reference: GL @ 3134.00usft
MD Reference: GL @ 3134.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Eddy County, NM (NAD-27)
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

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

Well: #105H
Well Position: +N/-S -2,350.70 usft Northing: 415,877.50 usft Latitude: 32.142773
+E/-W 16.60 usft Easting: 619,733.80 usft Longitude: -103.946490
Position Uncertainty: 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,134.00 usft

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

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

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	
5,335.00	0.00	0.00	5,335.00	0.00	0.00	0.00	0.00	0.00	0.000	
5,584.97	5.00	91.92	5,584.66	-0.36	10.89	2.00	2.00	0.00	91.917	
9,777.50	5.00	91.92	9,761.23	-12.59	376.05	0.00	0.00	0.00	0.000	
10,737.64	91.02	269.95	10,384.00	-15.00	-204.90	10.00	8.96	18.54	178.022	Tombstone 11 #10!
15,394.38	91.02	269.95	10,301.31	-19.09	-4,860.90	0.00	0.00	0.00	0.000	Tombstone 11 #10!
15,524.40	91.02	269.95	10,299.00	-19.20	-4,990.90	0.00	0.00	0.00	0.000	Tombstone 11 #10!



www.prototypewellplanning.com
Planning Report

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Wellbore: Wellbore #1
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Local Co-ordinate Reference: Well #105H
TVD Reference: GL @ 3134.00usft
MD Reference: GL @ 3134.00usft
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 #105H: SHL (2025' FNL & 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
693.00	0.00	0.00	693.00	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
973.00	0.00	0.00	973.00	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
3,079.00	0.00	0.00	3,079.00	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
3,285.00	0.00	0.00	3,285.00	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
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,207.00	0.00	0.00	4,207.00	0.00	0.00	0.00	0.00	0.00	0.00



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Local Co-ordinate Reference: Well #105H
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 MD Reference: GL @ 3134.00usft
 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)
Cherry Canyon									
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,335.00	0.00	0.00	5,335.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	1.30	91.92	5,399.99	-0.02	0.74	-0.74	2.00	2.00	0.00
5,500.00	3.30	91.92	5,499.91	-0.16	4.75	-4.75	2.00	2.00	0.00
5,584.97	5.00	91.92	5,584.66	-0.36	10.89	-10.89	2.00	2.00	0.00
5,600.00	5.00	91.92	5,599.63	-0.41	12.20	-12.20	0.00	0.00	0.00
5,700.00	5.00	91.92	5,699.25	-0.70	20.91	-20.91	0.00	0.00	0.00
5,800.00	5.00	91.92	5,798.86	-0.99	29.62	-29.62	0.00	0.00	0.00
5,809.17	5.00	91.92	5,808.00	-1.02	30.42	-30.42	0.00	0.00	0.00
Brushy Canyon									
5,900.00	5.00	91.92	5,898.48	-1.28	38.33	-38.33	0.00	0.00	0.00
6,000.00	5.00	91.92	5,998.10	-1.57	47.04	-47.04	0.00	0.00	0.00
6,100.00	5.00	91.92	6,097.72	-1.87	55.75	-55.75	0.00	0.00	0.00
6,200.00	5.00	91.92	6,197.34	-2.16	64.46	-64.46	0.00	0.00	0.00
6,300.00	5.00	91.92	6,296.96	-2.45	73.17	-73.17	0.00	0.00	0.00
6,400.00	5.00	91.92	6,396.58	-2.74	81.88	-81.88	0.00	0.00	0.00
6,500.00	5.00	91.92	6,496.20	-3.03	90.59	-90.59	0.00	0.00	0.00
6,600.00	5.00	91.92	6,595.82	-3.32	99.30	-99.30	0.00	0.00	0.00
6,700.00	5.00	91.92	6,695.44	-3.61	108.01	-108.01	0.00	0.00	0.00
6,800.00	5.00	91.92	6,795.06	-3.91	116.72	-116.72	0.00	0.00	0.00
6,863.18	5.00	91.92	6,858.00	-4.09	122.22	-122.22	0.00	0.00	0.00
Basal Brushy Canyon									
6,900.00	5.00	91.92	6,894.68	-4.20	125.43	-125.43	0.00	0.00	0.00
7,000.00	5.00	91.92	6,994.30	-4.49	134.14	-134.13	0.00	0.00	0.00
7,078.00	5.00	91.92	7,072.00	-4.72	140.93	-140.93	0.00	0.00	0.00
Bone Spring Lime									
7,100.00	5.00	91.92	7,093.92	-4.78	142.85	-142.84	0.00	0.00	0.00
7,200.00	5.00	91.92	7,193.54	-5.07	151.56	-151.55	0.00	0.00	0.00
7,300.00	5.00	91.92	7,293.16	-5.36	160.27	-160.26	0.00	0.00	0.00
7,400.00	5.00	91.92	7,392.78	-5.66	168.98	-168.97	0.00	0.00	0.00
7,500.00	5.00	91.92	7,492.40	-5.95	177.69	-177.68	0.00	0.00	0.00
7,600.00	5.00	91.92	7,592.02	-6.24	186.40	-186.39	0.00	0.00	0.00
7,700.00	5.00	91.92	7,691.64	-6.53	195.11	-195.10	0.00	0.00	0.00
7,800.00	5.00	91.92	7,791.26	-6.82	203.82	-203.81	0.00	0.00	0.00
7,900.00	5.00	91.92	7,890.88	-7.11	212.53	-212.52	0.00	0.00	0.00
7,969.39	5.00	91.92	7,960.00	-7.32	218.57	-218.56	0.00	0.00	0.00
1st Bone Spring Lime									
8,000.00	5.00	91.92	7,990.50	-7.40	221.24	-221.23	0.00	0.00	0.00
8,034.64	5.00	91.92	8,025.00	-7.51	224.25	-224.25	0.00	0.00	0.00
1st Bone Spring Sand									
8,100.00	5.00	91.92	8,090.11	-7.70	229.95	-229.94	0.00	0.00	0.00
8,200.00	5.00	91.92	8,189.73	-7.99	238.66	-238.65	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)
8,300.00	5.00	91.92	8,289.35	-8.28	247.37	-247.36	0.00	0.00	0.00
8,400.00	5.00	91.92	8,388.97	-8.57	256.08	-256.07	0.00	0.00	0.00
8,475.31	5.00	91.92	8,464.00	-8.79	262.64	-262.63	0.00	0.00	0.00
2nd Bone Spring Lime									
8,500.00	5.00	91.92	8,488.59	-8.86	264.79	-264.78	0.00	0.00	0.00
8,600.00	5.00	91.92	8,588.21	-9.15	273.50	-273.49	0.00	0.00	0.00
8,700.00	5.00	91.92	8,687.83	-9.45	282.20	-282.20	0.00	0.00	0.00
8,800.00	5.00	91.92	8,787.45	-9.74	290.91	-290.91	0.00	0.00	0.00
8,859.78	5.00	91.92	8,847.00	-9.91	296.12	-296.11	0.00	0.00	0.00
2nd Bone Spring Sand									
8,900.00	5.00	91.92	8,887.07	-10.03	299.62	-299.62	0.00	0.00	0.00
9,000.00	5.00	91.92	8,986.69	-10.32	308.33	-308.33	0.00	0.00	0.00
9,100.00	5.00	91.92	9,086.31	-10.61	317.04	-317.03	0.00	0.00	0.00
9,106.72	5.00	91.92	9,093.00	-10.63	317.63	-317.62	0.00	0.00	0.00
3rd Bone Spring Lime									
9,200.00	5.00	91.92	9,185.93	-10.90	325.75	-325.74	0.00	0.00	0.00
9,300.00	5.00	91.92	9,285.55	-11.19	334.46	-334.45	0.00	0.00	0.00
9,400.00	5.00	91.92	9,385.17	-11.49	343.17	-343.16	0.00	0.00	0.00
9,500.00	5.00	91.92	9,484.79	-11.78	351.88	-351.87	0.00	0.00	0.00
9,600.00	5.00	91.92	9,584.41	-12.07	360.59	-360.58	0.00	0.00	0.00
9,700.00	5.00	91.92	9,684.03	-12.36	369.30	-369.29	0.00	0.00	0.00
9,777.50	5.00	91.92	9,761.23	-12.59	376.05	-376.04	0.00	0.00	0.00
9,800.00	2.75	93.53	9,783.68	-12.65	377.57	-377.56	10.00	-9.99	7.19
9,850.00	2.26	265.58	9,833.66	-12.80	377.79	-377.78	10.00	-0.98	344.08
9,900.00	7.26	268.59	9,883.48	-12.96	373.65	-373.63	10.00	9.99	6.03
9,931.91	10.45	269.01	9,915.00	-13.06	368.74	-368.73	10.00	10.00	1.31
3rd Bone Spring Sand									
9,950.00	12.25	269.15	9,932.74	-13.11	365.18	-365.17	10.00	10.00	0.78
10,000.00	17.25	269.39	9,981.07	-13.27	352.45	-352.44	10.00	10.00	0.48
10,050.00	22.25	269.53	10,028.12	-13.43	335.56	-335.54	10.00	10.00	0.27
10,100.00	27.25	269.61	10,073.51	-13.58	314.63	-314.62	10.00	10.00	0.17
10,150.00	32.25	269.67	10,116.90	-13.74	289.82	-289.81	10.00	10.00	0.12
10,200.00	37.25	269.72	10,157.97	-13.89	261.33	-261.32	10.00	10.00	0.09
10,250.00	42.25	269.76	10,196.40	-14.03	229.36	-229.35	10.00	10.00	0.07
10,300.00	47.25	269.79	10,231.89	-14.17	194.17	-194.16	10.00	10.00	0.06
10,350.00	52.25	269.81	10,264.19	-14.30	156.02	-156.01	10.00	10.00	0.05
10,352.97	52.55	269.81	10,266.00	-14.31	153.67	-153.65	10.00	10.00	0.05
Wolfcamp									
10,400.00	57.25	269.84	10,293.03	-14.43	115.20	-115.19	10.00	10.00	0.04
10,405.53	57.81	269.84	10,296.00	-14.44	110.54	-110.52	10.00	10.00	0.04
Wolfcamp X									
10,450.00	62.25	269.86	10,318.21	-14.54	72.02	-72.01	10.00	10.00	0.04
10,500.00	67.25	269.87	10,339.53	-14.65	26.81	-26.80	10.00	10.00	0.04
10,550.00	72.25	269.89	10,356.83	-14.75	-20.08	20.10	10.00	10.00	0.03
10,567.85	74.04	269.90	10,362.00	-14.78	-37.16	37.18	10.00	10.00	0.03
Wolfcamp Y									
10,600.00	77.25	269.91	10,369.97	-14.83	-68.31	68.32	10.00	10.00	0.03
10,650.00	82.25	269.92	10,378.86	-14.90	-117.50	117.51	10.00	10.00	0.03
10,700.00	87.25	269.94	10,383.43	-14.96	-167.27	167.28	10.00	10.00	0.03
10,737.64	91.02	269.95	10,384.00	-15.00	-204.90	204.91	10.00	10.00	0.03
LP - Tombstone 11 #105H: FTP/ LP									
10,800.00	91.02	269.95	10,382.89	-15.05	-267.25	267.26	0.00	0.00	0.00
10,900.00	91.02	269.95	10,381.12	-15.14	-367.23	367.25	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: #105H
 Wellbore: Wellbore #1
 Design: PERMIT

Local Co-ordinate Reference: Well #105H
 TVD Reference: GL @ 3134.00usft
 MD Reference: GL @ 3134.00usft
 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)
11,000.00	91.02	269.95	10,379.34	-15.23	-467.22	467.23	0.00	0.00	0.00
11,100.00	91.02	269.95	10,377.57	-15.32	-567.20	567.21	0.00	0.00	0.00
11,200.00	91.02	269.95	10,375.79	-15.41	-667.19	667.20	0.00	0.00	0.00
11,300.00	91.02	269.95	10,374.01	-15.49	-767.17	767.18	0.00	0.00	0.00
11,400.00	91.02	269.95	10,372.24	-15.58	-867.15	867.17	0.00	0.00	0.00
11,500.00	91.02	269.95	10,370.46	-15.67	-967.14	967.15	0.00	0.00	0.00
11,600.00	91.02	269.95	10,368.69	-15.76	-1,067.12	1,067.14	0.00	0.00	0.00
11,700.00	91.02	269.95	10,366.91	-15.84	-1,167.11	1,167.12	0.00	0.00	0.00
11,800.00	91.02	269.95	10,365.14	-15.93	-1,267.09	1,267.10	0.00	0.00	0.00
11,900.00	91.02	269.95	10,363.36	-16.02	-1,367.08	1,367.09	0.00	0.00	0.00
12,000.00	91.02	269.95	10,361.58	-16.11	-1,467.06	1,467.07	0.00	0.00	0.00
12,100.00	91.02	269.95	10,359.81	-16.20	-1,567.04	1,567.06	0.00	0.00	0.00
12,200.00	91.02	269.95	10,358.03	-16.28	-1,667.03	1,667.04	0.00	0.00	0.00
12,300.00	91.02	269.95	10,356.26	-16.37	-1,767.01	1,767.03	0.00	0.00	0.00
12,400.00	91.02	269.95	10,354.48	-16.46	-1,867.00	1,867.01	0.00	0.00	0.00
12,500.00	91.02	269.95	10,352.71	-16.55	-1,966.98	1,966.99	0.00	0.00	0.00
12,600.00	91.02	269.95	10,350.93	-16.63	-2,066.96	2,066.98	0.00	0.00	0.00
12,700.00	91.02	269.95	10,349.15	-16.72	-2,166.95	2,166.96	0.00	0.00	0.00
12,800.00	91.02	269.95	10,347.38	-16.81	-2,266.93	2,266.95	0.00	0.00	0.00
12,900.00	91.02	269.95	10,345.60	-16.90	-2,366.92	2,366.93	0.00	0.00	0.00
13,000.00	91.02	269.95	10,343.83	-16.99	-2,466.90	2,466.92	0.00	0.00	0.00
13,100.00	91.02	269.95	10,342.05	-17.07	-2,566.89	2,566.90	0.00	0.00	0.00
13,200.00	91.02	269.95	10,340.28	-17.16	-2,666.87	2,666.88	0.00	0.00	0.00
13,300.00	91.02	269.95	10,338.50	-17.25	-2,766.85	2,766.87	0.00	0.00	0.00
13,400.00	91.02	269.95	10,336.72	-17.34	-2,866.84	2,866.85	0.00	0.00	0.00
13,500.00	91.02	269.95	10,334.95	-17.42	-2,966.82	2,966.84	0.00	0.00	0.00
13,600.00	91.02	269.95	10,333.17	-17.51	-3,066.81	3,066.82	0.00	0.00	0.00
13,700.00	91.02	269.95	10,331.40	-17.60	-3,166.79	3,166.80	0.00	0.00	0.00
13,800.00	91.02	269.95	10,329.62	-17.69	-3,266.78	3,266.79	0.00	0.00	0.00
13,900.00	91.02	269.95	10,327.85	-17.77	-3,366.76	3,366.77	0.00	0.00	0.00
14,000.00	91.02	269.95	10,326.07	-17.86	-3,466.74	3,466.76	0.00	0.00	0.00
14,100.00	91.02	269.95	10,324.29	-17.95	-3,566.73	3,566.74	0.00	0.00	0.00
14,200.00	91.02	269.95	10,322.52	-18.04	-3,666.71	3,666.73	0.00	0.00	0.00
14,300.00	91.02	269.95	10,320.74	-18.13	-3,766.70	3,766.71	0.00	0.00	0.00
14,400.00	91.02	269.95	10,318.97	-18.21	-3,866.68	3,866.69	0.00	0.00	0.00
14,500.00	91.02	269.95	10,317.19	-18.30	-3,966.66	3,966.68	0.00	0.00	0.00
14,600.00	91.02	269.95	10,315.42	-18.39	-4,066.65	4,066.66	0.00	0.00	0.00
14,700.00	91.02	269.95	10,313.64	-18.48	-4,166.63	4,166.65	0.00	0.00	0.00
14,800.00	91.02	269.95	10,311.86	-18.56	-4,266.62	4,266.63	0.00	0.00	0.00
14,900.00	91.02	269.95	10,310.09	-18.65	-4,366.60	4,366.62	0.00	0.00	0.00
15,000.00	91.02	269.95	10,308.31	-18.74	-4,466.59	4,466.60	0.00	0.00	0.00
15,100.00	91.02	269.95	10,306.54	-18.83	-4,566.57	4,566.58	0.00	0.00	0.00
15,200.00	91.02	269.95	10,304.76	-18.92	-4,666.55	4,666.57	0.00	0.00	0.00
15,300.00	91.02	269.95	10,302.98	-19.00	-4,766.54	4,766.55	0.00	0.00	0.00
15,394.38	91.02	269.95	10,301.31	-19.09	-4,860.90	4,860.91	0.00	0.00	0.00
Tombstone 11 #105H: LTP									
15,400.00	91.02	269.95	10,301.21	-19.09	-4,866.52	4,866.54	0.00	0.00	0.00
15,500.00	91.02	269.95	10,299.43	-19.18	-4,966.51	4,966.52	0.00	0.00	0.00
15,524.40	91.02	269.95	10,299.00	-19.20	-4,990.90	4,990.91	0.00	0.00	0.00
Tombstone 11 #105H: PBHL (2010' FSL & 200' FWL)									



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Tombstone 11 State
Well: #105H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well #105H
TVD Reference: GL @ 3134.00usft
MD Reference: GL @ 3134.00usft
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 #105H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	415,877.50	619,733.80	32.142773	-103.946490
Tombstone 11 #105H - plan hits target center - Point	0.00	0.01	10,299.00	-19.20	-4,990.90	415,858.30	614,742.90	32.142768	-103.962614
Tombstone 11 #105H - plan misses target center by 0.01usft at 15394.38usft MD (10301.31 TVD, -19.09 N, -4860.90 E) - Point	0.00	0.00	10,301.31	-19.10	-4,860.90	415,858.40	614,872.90	32.142767	-103.962194
Tombstone 11 #105H - plan hits target center - Point	0.00	0.00	10,384.00	-15.00	-204.90	415,862.50	619,528.90	32.142734	-103.947152

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
693.00	693.00	Rustler			
973.00	973.00	Salado (Top of Salt)			
3,079.00	3,079.00	Base of Salt			
3,285.00	3,285.00	Delaware (Bell Canyon)			
4,207.00	4,207.00	Cherry Canyon			
5,809.17	5,808.00	Brushy Canyon			
6,863.18	6,858.00	Basal Brushy Canyon			
7,078.00	7,072.00	Bone Spring Lime			
7,969.39	7,960.00	1st Bone Spring Lime			
8,034.64	8,025.00	1st Bone Spring Sand			
8,475.31	8,464.00	2nd Bone Spring Lime			
8,859.78	8,847.00	2nd Bone Spring Sand			
9,106.72	9,093.00	3rd Bone Spring Lime			
9,931.91	9,915.00	3rd Bone Spring Sand			
10,352.97	10,266.00	Wolfcamp			
10,405.53	10,296.00	Wolfcamp X			
10,567.85	10,362.00	Wolfcamp Y			
10,737.64	10,384.00	LP			