



## **XTO Energy**

**Eddy County, NM (NAD-27)**

**Tombstone 11 State**

**#103H**

**OH**

**Plan: PERMIT**

## **Standard Planning Report**

**27 February, 2019**



Project: Eddy County, NM (NAD-27)  
Site: Tombstone 11 State  
Well: #103H  
Wellbore: OH  
Design: PERMIT

#### WELL DETAILS: #103H

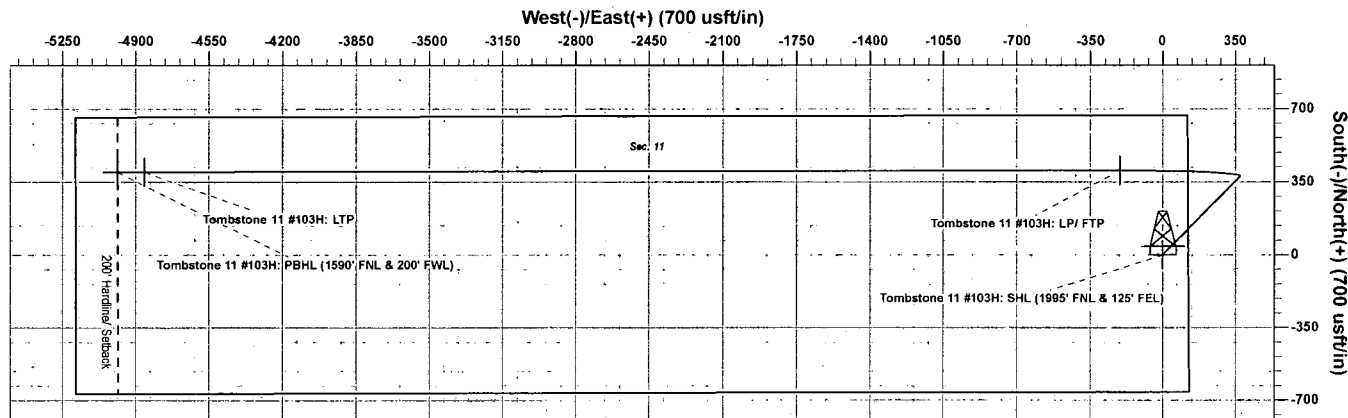
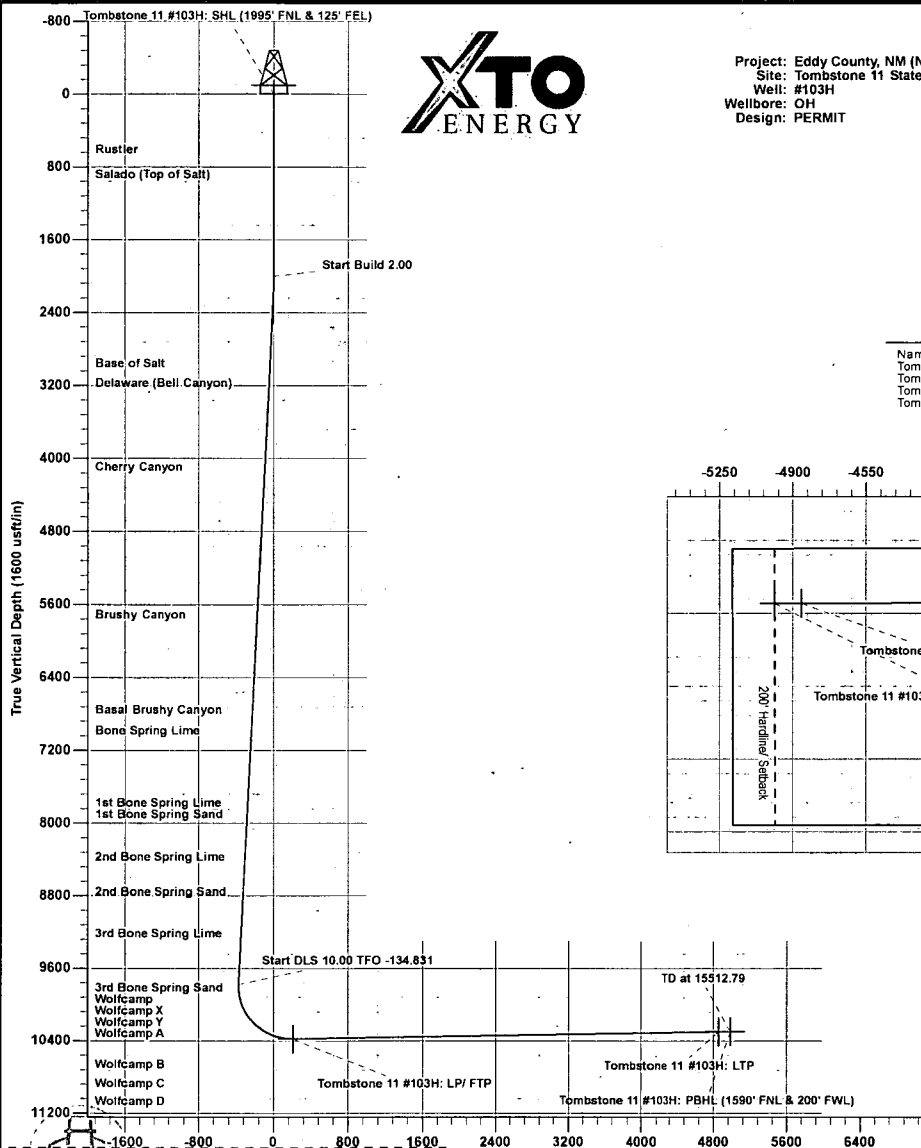
Rig Name:  
RKB = 17 @ 3128.00usft  
Ground Level: 3111.00  
Northing 417173.20  
Easting 619724.60  
Latitude 32.146335  
Longitude -103.946504

#### 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  | 0.00     | 0.00    |
| 2   | 2000.00  | 0.00  | 0.00   | 2000.00  | 0.00   | 0.00     | 0.00  | 0.00     | 0.00    |
| 3   | 2197.47  | 3.95  | 44.85  | 2197.31  | 4.82   | 4.80     | 2.00  | 44.848   | -4.81   |
| 4   | 9796.18  | 3.95  | 44.85  | 9777.98  | 375.87 | 373.89   | 0.00  | 0.000    | -374.54 |
| 5   | 10733.53 | 90.95 | 269.90 | 10378.00 | 404.70 | -207.90  | 10.00 | -134.831 | 207.19  |
| 6   | 15382.77 | 80.95 | 269.90 | 10301.15 | 396.82 | -4865.50 | 0.00  | 0.000    | 4855.80 |
| 7   | 15512.79 | 80.95 | 269.90 | 10299.00 | 396.60 | -4985.50 | 0.00  | 0.000    | 4985.80 |

#### DESIGN TARGET DETAILS

| Name                                            | TVD      | +N/-S  | +E/-W    | Northing  | Easting   | Latitude  | Longitude   | Shape |
|-------------------------------------------------|----------|--------|----------|-----------|-----------|-----------|-------------|-------|
| Tombstone 11 #103H: SHL (1995' FNL & 125' FEL)  | 0.00     | 0.00   | 0.00     | 417173.20 | 619724.60 | 32.146335 | -103.946504 | Point |
| Tombstone 11 #103H: PBHL (1590' FNL & 200' FWL) | 10299.00 | 396.60 | -4985.50 | 417569.80 | 614738.10 | 32.147473 | -103.962611 | Point |
| Tombstone 11 #103H: LTP                         | 10301.15 | 396.80 | -4865.50 | 417570.00 | 614868.10 | 32.147472 | -103.962191 | Point |
| Tombstone 11 #103H: LP/FTP                      | 10378.00 | 404.70 | -207.90  | 417577.90 | 619516.70 | 32.147449 | -103.947171 | Point |



#### FORMATION TOP DETAILS

| TVDPath  | Formation              |
|----------|------------------------|
| 694.00   | Rustler                |
| 967.00   | Salado (Top of Salt)   |
| 3044.00  | Base of Salt           |
| 3256.00  | Delaware (Bell Canyon) |
| 4177.00  | Cherry Canyon          |
| 5795.00  | Brushy Canyon          |
| 6838.00  | Basal Brushy Canyon    |
| 7067.00  | Bone Spring Lime       |
| 7940.00  | 1st Bone Spring Lime   |
| 7984.00  | 1st Bone Spring Sand   |
| 8454.00  | 2nd Bone Spring Lime   |
| 8837.00  | 2nd Bone Spring Sand   |
| 9076.00  | 3rd Bone Spring Lime   |
| 9900.00  | 3rd Bone Spring Sand   |
| 10261.00 | Wolfcamp               |
| 10296.00 | Wolfcamp X             |
| 10356.00 | Wolfcamp Y             |

#### 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 (#103H/OH)

Created By: Matthew May Date: 21:46, February 27 2019

Vertical Section at 269.90° (1600 usft/in)

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



|           |                           |                              |                         |
|-----------|---------------------------|------------------------------|-------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well #103H              |
| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| 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 | 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                 | #103H |                |                     |                 |               |               |
| Well Position        | +N/-S | -1,055.00 usft | Northing:           | 417,173.20 usft | Latitude:     | 32.146335     |
|                      | +E/-W | 7.40 usft      | Easting:            | 619,724.60 usft | Longitude:    | -103.946504   |
| Position Uncertainty |       | 0.00 usft      | Wellhead Elevation: | 0.00 usft       | Ground Level: | 3,111.00 usft |

|          |    |  |  |  |
|----------|----|--|--|--|
| Wellbore | OH |  |  |  |
|----------|----|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 2/27/2019   | 6.938           | 59.910        | 47,680              |

|        |        |  |  |  |
|--------|--------|--|--|--|
| Design | PERMIT |  |  |  |
|--------|--------|--|--|--|

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Audit Notes:      |                            |                 |                 |                  |
| Version:          | Phase:                     | PLAN            | Tie On Depth:   | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|                   | 0.00                       | 0.00            | 0.00            | 269.90           |

| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |                   |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target            |
| 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      |                   |
| 2,197.47                    | 3.95               | 44.85          | 2,197.31                    | 4.82            | 4.80            | 2.00                          | 2.00                         | 0.00                        | 44.848     |                   |
| 9,796.18                    | 3.95               | 44.85          | 9,777.98                    | 375.87          | 373.89          | 0.00                          | 0.00                         | 0.00                        | 0.000      |                   |
| 10,733.53                   | 90.95              | 269.90         | 10,378.00                   | 404.70          | -207.90         | 10.00                         | 9.28                         | -14.40                      | -134.831   | Tombstone 11 #10: |
| 15,382.77                   | 90.95              | 269.90         | 10,301.15                   | 396.82          | -4,856.50       | 0.00                          | 0.00                         | 0.00                        | 0.000      | Tombstone 11 #10: |
| 15,512.79                   | 90.95              | 269.90         | 10,299.00                   | 396.60          | -4,986.50       | 0.00                          | 0.00                         | 0.00                        | 0.000      | Tombstone 11 #10: |



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Planning Report

|           |                           |                              |                         |
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| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

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                  |
| <b>Tombstone 11 #103H: SHL (1995' FNL &amp; 125' FEL)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 694.00                                                    | 0.00            | 0.00        | 694.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Rustler</b>                                            |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 967.00                                                    | 0.00            | 0.00        | 967.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Salado (Top of Salt)</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |
| 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            | 44.85       | 2,099.98              | 1.24         | 1.23         | -1.23                   | 2.00                    | 2.00                   | 0.00                  |
| 2,197.47                                                  | 3.95            | 44.85       | 2,197.31              | 4.82         | 4.80         | -4.81                   | 2.00                    | 2.00                   | 0.00                  |
| 2,200.00                                                  | 3.95            | 44.85       | 2,199.84              | 4.95         | 4.92         | -4.93                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                                                  | 3.95            | 44.85       | 2,299.60              | 9.83         | 9.78         | -9.80                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                                                  | 3.95            | 44.85       | 2,399.36              | 14.71        | 14.64        | -14.66                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                                                  | 3.95            | 44.85       | 2,499.13              | 19.60        | 19.49        | -19.53                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                                                  | 3.95            | 44.85       | 2,598.89              | 24.48        | 24.35        | -24.39                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                                                  | 3.95            | 44.85       | 2,698.65              | 29.36        | 29.21        | -29.26                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                                                  | 3.95            | 44.85       | 2,798.41              | 34.25        | 34.06        | -34.12                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                                                  | 3.95            | 44.85       | 2,898.18              | 39.13        | 38.92        | -38.99                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                                                  | 3.95            | 44.85       | 2,997.94              | 44.01        | 43.78        | -43.86                  | 0.00                    | 0.00                   | 0.00                  |
| 3,046.17                                                  | 3.95            | 44.85       | 3,044.00              | 46.27        | 46.02        | -46.10                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Base of Salt</b>                                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,100.00                                                  | 3.95            | 44.85       | 3,097.70              | 48.89        | 48.64        | -48.72                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                                                  | 3.95            | 44.85       | 3,197.46              | 53.78        | 53.49        | -53.59                  | 0.00                    | 0.00                   | 0.00                  |
| 3,258.68                                                  | 3.95            | 44.85       | 3,256.00              | 56.64        | 56.34        | -56.44                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Delaware (Bell Canyon)</b>                             |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,300.00                                                  | 3.95            | 44.85       | 3,297.23              | 58.66        | 58.35        | -58.45                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                                                  | 3.95            | 44.85       | 3,396.99              | 63.54        | 63.21        | -63.32                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                                  | 3.95            | 44.85       | 3,496.75              | 68.43        | 68.07        | -68.18                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                                                  | 3.95            | 44.85       | 3,596.51              | 73.31        | 72.92        | -73.05                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                                                  | 3.95            | 44.85       | 3,696.28              | 78.19        | 77.78        | -77.92                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                                                  | 3.95            | 44.85       | 3,796.04              | 83.08        | 82.64        | -82.78                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                                                  | 3.95            | 44.85       | 3,895.80              | 87.96        | 87.49        | -87.65                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                                                  | 3.95            | 44.85       | 3,995.56              | 92.84        | 92.35        | -92.51                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                                                  | 3.95            | 44.85       | 4,095.33              | 97.72        | 97.21        | -97.38                  | 0.00                    | 0.00                   | 0.00                  |
| 4,181.87                                                  | 3.95            | 44.85       | 4,177.00              | 101.72       | 101.19       | -101.36                 | 0.00                    | 0.00                   | 0.00                  |



|           |                           |                              |                         |
|-----------|---------------------------|------------------------------|-------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well #103H              |
| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

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) |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| <b>Cherry Canyon</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,200.00                    | 3.95            | 44.85       | 4,195.09              | 102.61       | 102.07       | -102.25                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                    | 3.95            | 44.85       | 4,294.85              | 107.49       | 106.92       | -107.11                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                    | 3.95            | 44.85       | 4,394.61              | 112.37       | 111.78       | -111.98                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                    | 3.95            | 44.85       | 4,494.38              | 117.26       | 116.64       | -116.84                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                    | 3.95            | 44.85       | 4,594.14              | 122.14       | 121.50       | -121.71                 | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                    | 3.95            | 44.85       | 4,693.90              | 127.02       | 126.35       | -126.57                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                    | 3.95            | 44.85       | 4,793.66              | 131.91       | 131.21       | -131.44                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                    | 3.95            | 44.85       | 4,893.43              | 136.79       | 136.07       | -136.31                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                    | 3.95            | 44.85       | 4,993.19              | 141.67       | 140.92       | -141.17                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                    | 3.95            | 44.85       | 5,092.95              | 146.56       | 145.78       | -146.04                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                    | 3.95            | 44.85       | 5,192.71              | 151.44       | 150.64       | -150.90                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                    | 3.95            | 44.85       | 5,292.48              | 156.32       | 155.50       | -155.77                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                    | 3.95            | 44.85       | 5,392.24              | 161.20       | 160.35       | -160.63                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                    | 3.95            | 44.85       | 5,492.00              | 166.09       | 165.21       | -165.50                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                    | 3.95            | 44.85       | 5,591.76              | 170.97       | 170.07       | -170.37                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                    | 3.95            | 44.85       | 5,691.53              | 175.85       | 174.93       | -175.23                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                    | 3.95            | 44.85       | 5,791.29              | 180.74       | 179.78       | -180.10                 | 0.00                    | 0.00                   | 0.00                  |
| 5,803.72                    | 3.95            | 44.85       | 5,795.00              | 180.92       | 179.96       | -180.28                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Brushy Canyon</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,900.00                    | 3.95            | 44.85       | 5,891.05              | 185.62       | 184.64       | -184.96                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                    | 3.95            | 44.85       | 5,990.81              | 190.50       | 189.50       | -189.83                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                    | 3.95            | 44.85       | 6,090.58              | 195.39       | 194.35       | -194.70                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                    | 3.95            | 44.85       | 6,190.34              | 200.27       | 199.21       | -199.56                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                    | 3.95            | 44.85       | 6,290.10              | 205.15       | 204.07       | -204.43                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                    | 3.95            | 44.85       | 6,389.86              | 210.04       | 208.93       | -209.29                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                    | 3.95            | 44.85       | 6,489.63              | 214.92       | 213.78       | -214.16                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                    | 3.95            | 44.85       | 6,589.39              | 219.80       | 218.64       | -219.02                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                    | 3.95            | 44.85       | 6,689.15              | 224.68       | 223.50       | -223.89                 | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                    | 3.95            | 44.85       | 6,788.91              | 229.57       | 228.36       | -228.76                 | 0.00                    | 0.00                   | 0.00                  |
| 6,849.20                    | 3.95            | 44.85       | 6,838.00              | 231.97       | 230.75       | -231.15                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Basal Brushy Canyon</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,900.00                    | 3.95            | 44.85       | 6,888.68              | 234.45       | 233.21       | -233.62                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                    | 3.95            | 44.85       | 6,988.44              | 239.33       | 238.07       | -238.49                 | 0.00                    | 0.00                   | 0.00                  |
| 7,078.75                    | 3.95            | 44.85       | 7,067.00              | 243.18       | 241.89       | -242.32                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring Lime</b>     |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,100.00                    | 3.95            | 44.85       | 7,088.20              | 244.22       | 242.93       | -243.35                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                    | 3.95            | 44.85       | 7,187.96              | 249.10       | 247.78       | -248.22                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                    | 3.95            | 44.85       | 7,287.73              | 253.98       | 252.64       | -253.08                 | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                    | 3.95            | 44.85       | 7,387.49              | 258.87       | 257.50       | -257.95                 | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                    | 3.95            | 44.85       | 7,487.25              | 263.75       | 262.36       | -262.82                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                    | 3.95            | 44.85       | 7,587.01              | 268.63       | 267.21       | -267.68                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                    | 3.95            | 44.85       | 7,686.78              | 273.51       | 272.07       | -272.55                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                    | 3.95            | 44.85       | 7,786.54              | 278.40       | 276.93       | -277.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                    | 3.95            | 44.85       | 7,886.30              | 283.28       | 281.79       | -282.28                 | 0.00                    | 0.00                   | 0.00                  |
| 7,953.83                    | 3.95            | 44.85       | 7,940.00              | 285.91       | 284.40       | -284.90                 | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Lime</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,997.93                    | 3.95            | 44.85       | 7,984.00              | 288.06       | 286.54       | -287.04                 | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Sand</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,000.00                    | 3.95            | 44.85       | 7,986.06              | 288.16       | 286.64       | -287.15                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                    | 3.95            | 44.85       | 8,085.83              | 293.05       | 291.50       | -292.01                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                    | 3.95            | 44.85       | 8,185.59              | 297.93       | 296.36       | -296.88                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                    | 3.95            | 44.85       | 8,285.35              | 302.81       | 301.21       | -301.74                 | 0.00                    | 0.00                   | 0.00                  |



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Planning Report

|           |                           |                              |                         |
|-----------|---------------------------|------------------------------|-------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well #103H              |
| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

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) |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,400.00                          | 3.95            | 44.85       | 8,385.11              | 307.70       | 306.07       | -306.61                 | 0.00                    | 0.00                   | 0.00                  |
| 8,469.05                          | 3.95            | 44.85       | 8,454.00              | 311.07       | 309.43       | -309.97                 | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Lime</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,500.00                          | 3.95            | 44.85       | 8,484.88              | 312.58       | 310.93       | -311.47                 | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                          | 3.95            | 44.85       | 8,584.64              | 317.46       | 315.79       | -316.34                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                          | 3.95            | 44.85       | 8,684.40              | 322.35       | 320.64       | -321.21                 | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                          | 3.95            | 44.85       | 8,784.16              | 327.23       | 325.50       | -326.07                 | 0.00                    | 0.00                   | 0.00                  |
| 8,852.96                          | 3.95            | 44.85       | 8,837.00              | 329.81       | 328.07       | -328.65                 | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Sand</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,900.00                          | 3.95            | 44.85       | 8,883.93              | 332.11       | 330.36       | -330.94                 | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                          | 3.95            | 44.85       | 8,983.69              | 336.99       | 335.22       | -335.80                 | 0.00                    | 0.00                   | 0.00                  |
| 9,092.53                          | 3.95            | 44.85       | 9,076.00              | 341.51       | 339.71       | -340.31                 | 0.00                    | 0.00                   | 0.00                  |
| <b>3rd Bone Spring Lime</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,100.00                          | 3.95            | 44.85       | 9,083.45              | 341.88       | 340.07       | -340.67                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                          | 3.95            | 44.85       | 9,183.22              | 346.76       | 344.93       | -345.53                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                          | 3.95            | 44.85       | 9,282.98              | 351.64       | 349.79       | -350.40                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                          | 3.95            | 44.85       | 9,382.74              | 356.53       | 354.64       | -355.27                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                          | 3.95            | 44.85       | 9,482.50              | 361.41       | 359.50       | -360.13                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                          | 3.95            | 44.85       | 9,582.27              | 366.29       | 364.36       | -365.00                 | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00                          | 3.95            | 44.85       | 9,682.03              | 371.18       | 369.22       | -369.86                 | 0.00                    | 0.00                   | 0.00                  |
| 9,796.18                          | 3.95            | 44.85       | 9,777.98              | 375.87       | 373.89       | -374.54                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00                          | 3.69            | 40.64       | 9,781.79              | 376.06       | 374.06       | -374.72                 | 10.00                   | -6.79                  | -110.29               |
| 9,850.00                          | 3.82            | 317.09      | 9,831.72              | 378.50       | 373.98       | -374.64                 | 10.00                   | 0.25                   | -167.10               |
| 9,900.00                          | 8.09            | 290.07      | 9,881.44              | 380.93       | 369.53       | -370.20                 | 10.00                   | 8.55                   | -54.05                |
| 9,918.79                          | 9.88            | 286.26      | 9,900.00              | 381.83       | 366.75       | -367.41                 | 10.00                   | 9.49                   | -20.24                |
| <b>3rd Bone Spring Sand</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,950.00                          | 12.90           | 282.28      | 9,930.59              | 383.32       | 360.77       | -361.44                 | 10.00                   | 9.68                   | -12.76                |
| 10,000.00                         | 17.81           | 278.71      | 9,978.80              | 385.67       | 347.75       | -348.42                 | 10.00                   | 9.82                   | -7.15                 |
| 10,050.00                         | 22.76           | 276.64      | 10,025.68             | 387.95       | 330.58       | -331.25                 | 10.00                   | 9.90                   | -4.12                 |
| 10,100.00                         | 27.73           | 275.29      | 10,070.89             | 390.14       | 309.38       | -310.06                 | 10.00                   | 9.93                   | -2.71                 |
| 10,150.00                         | 32.70           | 274.32      | 10,114.09             | 392.23       | 284.31       | -284.99                 | 10.00                   | 9.95                   | -1.94                 |
| 10,200.00                         | 37.68           | 273.58      | 10,154.94             | 394.20       | 255.57       | -256.26                 | 10.00                   | 9.96                   | -1.48                 |
| 10,250.00                         | 42.67           | 272.99      | 10,193.13             | 396.04       | 223.38       | -224.07                 | 10.00                   | 9.97                   | -1.18                 |
| 10,300.00                         | 47.66           | 272.50      | 10,228.37             | 397.73       | 187.97       | -188.67                 | 10.00                   | 9.98                   | -0.97                 |
| 10,350.00                         | 52.65           | 272.09      | 10,260.40             | 399.27       | 149.63       | -150.32                 | 10.00                   | 9.98                   | -0.83                 |
| 10,351.00                         | 52.75           | 272.08      | 10,261.00             | 399.29       | 148.84       | -149.53                 | 10.00                   | 9.98                   | -0.77                 |
| <b>Wolfcamp</b>                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,400.00                         | 57.64           | 271.73      | 10,288.96             | 400.63       | 108.63       | -109.33                 | 10.00                   | 9.98                   | -0.73                 |
| 10,401.94                         | 57.83           | 271.71      | 10,290.00             | 400.68       | 106.99       | -107.69                 | 10.00                   | 9.98                   | -0.68                 |
| <b>Wolfcamp X</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,450.00                         | 62.63           | 271.40      | 10,313.86             | 401.81       | 65.30        | -66.01                  | 10.00                   | 9.98                   | -0.65                 |
| 10,500.00                         | 67.62           | 271.10      | 10,334.88             | 402.79       | 19.97        | -20.67                  | 10.00                   | 9.99                   | -0.59                 |
| 10,550.00                         | 72.62           | 270.83      | 10,351.88             | 403.58       | -27.03       | 26.33                   | 10.00                   | 9.99                   | -0.55                 |
| 10,564.38                         | 74.05           | 270.75      | 10,356.00             | 403.77       | -40.80       | 40.10                   | 10.00                   | 9.99                   | -0.53                 |
| <b>Wolfcamp Y</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,600.00                         | 77.61           | 270.56      | 10,364.72             | 404.17       | -75.33       | 74.63                   | 10.00                   | 9.99                   | -0.52                 |
| 10,650.00                         | 82.60           | 270.31      | 10,373.31             | 404.54       | -124.57      | 123.87                  | 10.00                   | 9.99                   | -0.50                 |
| 10,700.00                         | 87.60           | 270.07      | 10,377.57             | 404.71       | -174.38      | 173.67                  | 10.00                   | 9.99                   | -0.49                 |
| 10,733.53                         | 90.95           | 269.90      | 10,378.00             | 404.70       | -207.90      | 207.19                  | 10.00                   | 9.99                   | -0.49                 |
| <b>Tombstone 11 #103H: LP/FTP</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,800.00                         | 90.95           | 269.90      | 10,376.90             | 404.59       | -274.36      | 273.65                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.00                         | 90.95           | 269.90      | 10,375.25             | 404.42       | -374.34      | 373.64                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                         | 90.95           | 269.90      | 10,373.60             | 404.25       | -474.33      | 473.62                  | 0.00                    | 0.00                   | 0.00                  |



|           |                           |                              |                         |
|-----------|---------------------------|------------------------------|-------------------------|
| Database: | EDM.5000.1 Single User Db | Local Co-ordinate Reference: | Well #103H              |
| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

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) |
|-------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,100.00                                       | 90.95           | 269.90      | 10,371.94             | 404.08       | -574.32      | 573.61                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                                       | 90.95           | 269.90      | 10,370.29             | 403.91       | -674.30      | 673.60                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                                       | 90.95           | 269.90      | 10,368.64             | 403.74       | -774.29      | 773.58                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                                       | 90.95           | 269.90      | 10,366.98             | 403.57       | -874.28      | 873.57                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                                       | 90.95           | 269.90      | 10,365.33             | 403.40       | -974.26      | 973.56                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00                                       | 90.95           | 269.90      | 10,363.68             | 403.23       | -1,074.25    | 1,073.54                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00                                       | 90.95           | 269.90      | 10,362.02             | 403.06       | -1,174.23    | 1,173.53                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00                                       | 90.95           | 269.90      | 10,360.37             | 402.89       | -1,274.22    | 1,273.52                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00                                       | 90.95           | 269.90      | 10,358.72             | 402.72       | -1,374.21    | 1,373.50                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                                       | 90.95           | 269.90      | 10,357.07             | 402.55       | -1,474.19    | 1,473.49                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00                                       | 90.95           | 269.90      | 10,355.41             | 402.38       | -1,574.18    | 1,573.47                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00                                       | 90.95           | 269.90      | 10,353.76             | 402.21       | -1,674.17    | 1,673.46                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00                                       | 90.95           | 269.90      | 10,352.11             | 402.05       | -1,774.15    | 1,773.45                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00                                       | 90.95           | 269.90      | 10,350.45             | 401.88       | -1,874.14    | 1,873.43                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00                                       | 90.95           | 269.90      | 10,348.80             | 401.71       | -1,974.12    | 1,973.42                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                                       | 90.95           | 269.90      | 10,347.15             | 401.54       | -2,074.11    | 2,073.41                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                                       | 90.95           | 269.90      | 10,345.49             | 401.37       | -2,174.10    | 2,173.39                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00                                       | 90.95           | 269.90      | 10,343.84             | 401.20       | -2,274.08    | 2,273.38                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                                       | 90.95           | 269.90      | 10,342.19             | 401.03       | -2,374.07    | 2,373.37                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                                       | 90.95           | 269.90      | 10,340.54             | 400.86       | -2,474.05    | 2,473.35                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                                       | 90.95           | 269.90      | 10,338.88             | 400.69       | -2,574.04    | 2,573.34                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                                       | 90.95           | 269.90      | 10,337.23             | 400.52       | -2,674.03    | 2,673.32                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                                       | 90.95           | 269.90      | 10,335.58             | 400.35       | -2,774.01    | 2,773.31                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                                       | 90.95           | 269.90      | 10,333.92             | 400.18       | -2,874.00    | 2,873.30                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                                       | 90.95           | 269.90      | 10,332.27             | 400.01       | -2,973.99    | 2,973.28                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                                       | 90.95           | 269.90      | 10,330.62             | 399.84       | -3,073.97    | 3,073.27                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                                       | 90.95           | 269.90      | 10,328.97             | 399.67       | -3,173.96    | 3,173.26                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                                       | 90.95           | 269.90      | 10,327.31             | 399.50       | -3,273.94    | 3,273.24                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                                       | 90.95           | 269.90      | 10,325.66             | 399.33       | -3,373.93    | 3,373.23                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                                       | 90.95           | 269.90      | 10,324.01             | 399.16       | -3,473.92    | 3,473.21                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00                                       | 90.95           | 269.90      | 10,322.35             | 398.99       | -3,573.90    | 3,573.20                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                                       | 90.95           | 269.90      | 10,320.70             | 398.82       | -3,673.89    | 3,673.19                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00                                       | 90.95           | 269.90      | 10,319.05             | 398.66       | -3,773.88    | 3,773.17                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00                                       | 90.95           | 269.90      | 10,317.39             | 398.49       | -3,873.86    | 3,873.16                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00                                       | 90.95           | 269.90      | 10,315.74             | 398.32       | -3,973.85    | 3,973.15                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00                                       | 90.95           | 269.90      | 10,314.09             | 398.15       | -4,073.83    | 4,073.13                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00                                       | 90.95           | 269.90      | 10,312.44             | 397.98       | -4,173.82    | 4,173.12                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00                                       | 90.95           | 269.90      | 10,310.78             | 397.81       | -4,273.81    | 4,273.11                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00                                       | 90.95           | 269.90      | 10,309.13             | 397.64       | -4,373.79    | 4,373.09                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00                                       | 90.95           | 269.90      | 10,307.48             | 397.47       | -4,473.78    | 4,473.08                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00                                       | 90.95           | 269.90      | 10,305.82             | 397.30       | -4,573.77    | 4,573.06                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00                                       | 90.95           | 269.90      | 10,304.17             | 397.13       | -4,673.75    | 4,673.05                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00                                       | 90.95           | 269.90      | 10,302.52             | 396.96       | -4,773.74    | 4,773.04                | 0.00                    | 0.00                   | 0.00                  |
| 15,382.77                                       | 90.95           | 269.90      | 10,301.15             | 396.82       | -4,856.50    | 4,855.80                | 0.00                    | 0.00                   | 0.00                  |
| Tombstone 11 #103H: LTP                         |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,400.00                                       | 90.95           | 269.90      | 10,300.86             | 396.79       | -4,873.72    | 4,873.02                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00                                       | 90.95           | 269.90      | 10,299.21             | 396.62       | -4,973.71    | 4,973.01                | 0.00                    | 0.00                   | 0.00                  |
| 15,512.79                                       | 90.95           | 269.90      | 10,299.00             | 396.60       | -4,986.50    | 4,985.80                | 0.00                    | 0.00                   | 0.00                  |
| Tombstone 11 #103H: PBHL (1590' FNL & 200' FWL) |                 |             |                       |              |              |                         |                         |                        |                       |



|           |                           |                              |                         |
|-----------|---------------------------|------------------------------|-------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well #103H              |
| Company:  | XTO Energy                | TVD Reference:               | RKB = 17' @ 3128.00usft |
| Project:  | Eddy County, NM (NAD-27)  | MD Reference:                | RKB = 17' @ 3128.00usft |
| Site:     | Tombstone 11 State        | North Reference:             | Grid                    |
| Well:     | #103H                     | Survey Calculation Method:   | Minimum Curvature       |
| Wellbore: | OH                        |                              |                         |
| Design:   | PERMIT                    |                              |                         |

#### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                      | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
|----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Tombstone 11 #103H<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 0.00          | 0.00            | 0.00            | 417,173.20         | 619,724.60        | 32.146335 | -103.946504 |
| Tombstone 11 #103H<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 10,299.00     | 396.60          | -4,986.50       | 417,569.80         | 614,738.10        | 32.147473 | -103.962611 |
| Tombstone 11 #103H<br>- plan misses target center by 0.02usft at 15382.77usft MD (10301.15 TVD, 396.82 N, -4856.50 E)<br>- Point | 0.00             | 0.00            | 10,301.15     | 396.80          | -4,856.50       | 417,570.00         | 614,868.10        | 32.147473 | -103.962191 |
| Tombstone 11 #103H<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 10,378.00     | 404.70          | -207.90         | 417,577.90         | 619,516.70        | 32.147449 | -103.947171 |

#### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name                   | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|------------------------|-----------|------------|-------------------------|
| 694.00                      | 694.00                      | Rustler                |           |            |                         |
| 967.00                      | 967.00                      | Salado (Top of Salt)   |           |            |                         |
| 3,046.17                    | 3,044.00                    | Base of Salt           |           |            |                         |
| 3,258.68                    | 3,256.00                    | Delaware (Bell Canyon) |           |            |                         |
| 4,181.87                    | 4,177.00                    | Cherry Canyon          |           |            |                         |
| 5,803.72                    | 5,795.00                    | Brushy Canyon          |           |            |                         |
| 6,849.20                    | 6,838.00                    | Basal Brushy Canyon    |           |            |                         |
| 7,078.75                    | 7,067.00                    | Bone Spring Lime       |           |            |                         |
| 7,953.83                    | 7,940.00                    | 1st Bone Spring Lime   |           |            |                         |
| 7,997.93                    | 7,984.00                    | 1st Bone Spring Sand   |           |            |                         |
| 8,469.05                    | 8,454.00                    | 2nd Bone Spring Lime   |           |            |                         |
| 8,852.96                    | 8,837.00                    | 2nd Bone Spring Sand   |           |            |                         |
| 9,092.53                    | 9,076.00                    | 3rd Bone Spring Lime   |           |            |                         |
| 9,918.79                    | 9,900.00                    | 3rd Bone Spring Sand   |           |            |                         |
| 10,351.00                   | 10,261.00                   | Wolfcamp               |           |            |                         |
| 10,401.94                   | 10,290.00                   | Wolfcamp X             |           |            |                         |
| 10,564.38                   | 10,356.00                   | Wolfcamp Y             |           |            |                         |