MAY 2 4 2019
DISTRICT II-ARTESIA O.C.D.

# Survey Report

| | | | |
|---|---|---|---|
| **Company:** | XTO Energy | **Local Co-ordinate Reference:** | Well Remuda South 25 State 101H - Slot S-25_101H |
| **Project:** | Eddy County, NM (NAD27) NMEZ | **TVD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Site:** | Remuda South 25 State Pad | **MD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Well:** | Remuda South 25 State 101H | **North Reference:** | Grid |
| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Project** Eddy County, NM (NAD27) NMEZ

| | | | |
|---|---|---|---|
| **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** Remuda South 25 State Pad, Centered on 904H

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 464,640.20 ft | **Latitude:** | 32° 16' 36.472 N |
| **From:** | Map | **Easting:** | 621,538.20 ft | **Longitude:** | 103° 56' 24.314 W |
| **Position Uncertainty:** | 0.00 usft | **Slot Radius:** | 13.20 in | **Grid Convergence:** | 0.21 ° |

**Well** Remuda South 25 State 101H - Slot S-25_101H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 usft | **Northing:** | 464,639.70 ft | **Latitude:** | 32° 16' 36.514 N |
| | **+E/-W** | 0.00 usft | **Easting:** | 620,248.40 ft | **Longitude:** | 103° 56' 39.338 W |
| **Position Uncertainty** | | 0.00 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,062.00 usft |

**Wellbore** Lateral

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2015 | 03/16/18 | 7.05 | 60.04 | 47,856 |

**Design** Lateral

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | 1.0 | **Phase:** | ACTUAL | **Tie On Depth:** | 0.00 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 181.78 |

**Survey Program** **Date** 05/15/18

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 100.00 | 18,312.00 | Survey #1 (Lateral) | MWD | MWD v3:standard declination |
| 18,364.00 | 18,364.00 | Survey #2 (Lateral) | Projection | Projection |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| S-25_101H_SL | | | | | | | | | |
| 100.00 | 0.70 | 316.00 | 100.00 | 0.44 | -0.42 | -0.43 | 0.70 | 0.70 | 0.00 |
| 200.00 | 0.30 | 0.00 | 199.99 | 1.14 | -0.85 | -1.11 | 0.53 | -0.40 | 44.00 |
| 294.00 | 0.10 | 341.00 | 293.99 | 1.46 | -0.88 | -1.44 | 0.22 | -0.21 | -20.21 |
| 358.00 | 1.20 | 203.30 | 357.99 | 0.90 | -1.16 | -0.87 | 1.99 | 1.72 | -215.16 |
| 460.00 | 0.80 | 199.20 | 459.97 | -0.75 | -1.82 | 0.81 | 0.40 | -0.39 | -4.02 |
| 508.00 | 0.30 | 69.30 | 507.97 | -1.02 | -1.81 | 1.08 | 2.12 | -1.04 | -270.62 |
| 569.00 | 1.40 | 44.50 | 568.96 | -0.44 | -1.14 | 0.47 | 1.86 | 1.80 | -40.66 |

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| **Site:** | Remuda South 25 State Pad | **MD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Well:** | Remuda South 25 State 101H | **North Reference:** | Grid |
| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 629.00 | 1.90 | 35.30 | 628.94 | 0.90 | -0.05 | -0.90 | 0.94 | 0.83 | -15.33 |
| 690.00 | 1.50 | 43.80 | 689.91 | 2.30 | 1.09 | -2.33 | 0.77 | -0.66 | 13.93 |
| 755.00 | 0.90 | 93.20 | 754.90 | 2.89 | 2.19 | -2.95 | 1.76 | -0.92 | 76.00 |
| 848.00 | 1.10 | 113.80 | 847.89 | 2.48 | 3.73 | -2.60 | 0.44 | 0.22 | 22.15 |
| 945.00 | 1.20 | 121.00 | 944.87 | 1.59 | 5.46 | -1.75 | 0.18 | 0.10 | 7.42 |
| 1,041.00 | 1.00 | 113.40 | 1,040.85 | 0.74 | 7.09 | -0.96 | 0.26 | -0.21 | -7.92 |
| 1,135.00 | 1.10 | 106.00 | 1,134.83 | 0.16 | 8.71 | -0.43 | 0.18 | 0.11 | -7.87 |
| 1,232.00 | 1.10 | 100.30 | 1,231.81 | -0.26 | 10.52 | -0.06 | 0.11 | 0.00 | -5.88 |
| 1,327.00 | 0.40 | 266.40 | 1,326.81 | -0.45 | 11.08 | 0.10 | 1.57 | -0.74 | 174.84 |
| 1,423.00 | 1.10 | 261.70 | 1,422.80 | -0.60 | 9.84 | 0.29 | 0.73 | 0.73 | -4.90 |
| 1,517.00 | 0.80 | 255.80 | 1,516.79 | -0.89 | 8.31 | 0.63 | 0.34 | -0.32 | -6.28 |
| 1,614.00 | 0.90 | 267.90 | 1,613.78 | -1.09 | 6.89 | 0.87 | 0.21 | 0.10 | 12.47 |
| 1,708.00 | 0.90 | 278.00 | 1,707.77 | -1.01 | 5.42 | 0.84 | 0.17 | 0.00 | 10.74 |
| 1,803.00 | 0.60 | 266.90 | 1,802.76 | -0.93 | 4.19 | 0.80 | 0.35 | -0.32 | -11.68 |
| 1,897.00 | 0.60 | 249.10 | 1,896.75 | -1.13 | 3.24 | 1.03 | 0.20 | 0.00 | -18.94 |
| 1,991.00 | 0.60 | 269.50 | 1,990.75 | -1.31 | 2.28 | 1.24 | 0.23 | 0.00 | 21.70 |
| 2,086.00 | 0.30 | 291.10 | 2,085.74 | -1.23 | 1.55 | 1.18 | 0.36 | -0.32 | 22.74 |
| 2,182.00 | 0.30 | 334.90 | 2,181.74 | -0.91 | 1.21 | 0.87 | 0.23 | 0.00 | 45.62 |
| 2,279.00 | 0.10 | 344.80 | 2,278.74 | -0.60 | 1.08 | 0.57 | 0.21 | -0.21 | 10.21 |
| 2,374.00 | 0.30 | 351.10 | 2,373.74 | -0.27 | 1.02 | 0.24 | 0.21 | 0.21 | 6.63 |
| 2,469.00 | 0.20 | 52.50 | 2,468.74 | 0.07 | 1.12 | -0.11 | 0.28 | -0.11 | 64.63 |
| 2,564.00 | 1.30 | 128.90 | 2,563.73 | -0.50 | 2.09 | 0.44 | 1.33 | 1.16 | 80.42 |
| 2,659.00 | 0.80 | 151.90 | 2,658.72 | -1.77 | 3.24 | 1.66 | 0.68 | -0.53 | 24.21 |
| 2,754.00 | 0.80 | 142.50 | 2,753.71 | -2.88 | 3.95 | 2.75 | 0.14 | 0.00 | -9.89 |
| 2,847.00 | 0.80 | 178.60 | 2,846.70 | -4.04 | 4.36 | 3.90 | 0.53 | 0.00 | 38.82 |
| 2,942.00 | 1.20 | 239.90 | 2,941.69 | -5.20 | 3.52 | 5.09 | 1.13 | 0.42 | 64.53 |
| 3,037.00 | 1.10 | 303.90 | 3,036.67 | -5.19 | 1.90 | 5.13 | 1.29 | -0.11 | 67.37 |
| 3,131.00 | 1.40 | 30.80 | 3,130.66 | -3.70 | 1.74 | 3.65 | 1.84 | 0.32 | 92.45 |
| 3,225.00 | 2.00 | 56.90 | 3,224.62 | -1.82 | 3.70 | 1.70 | 1.03 | 0.64 | 27.77 |
| 3,319.00 | 1.50 | 36.20 | 3,318.57 | 0.07 | 5.80 | -0.25 | 0.85 | -0.53 | -22.02 |
| 3,415.00 | 0.60 | 253.00 | 3,414.56 | 0.93 | 6.07 | -1.12 | 2.10 | -0.94 | -149.17 |
| 3,511.00 | 1.30 | 229.50 | 3,510.55 | 0.08 | 4.76 | -0.23 | 0.82 | 0.73 | -24.48 |
| 3,606.00 | 0.60 | 250.80 | 3,605.54 | -0.78 | 3.47 | 0.67 | 0.81 | -0.74 | 22.42 |
| 3,701.00 | 0.30 | 286.30 | 3,700.53 | -0.88 | 2.76 | 0.79 | 0.42 | -0.32 | 37.37 |
| 3,797.00 | 0.30 | 330.00 | 3,796.53 | -0.59 | 2.39 | 0.51 | 0.23 | 0.00 | 45.52 |
| 3,891.00 | 0.30 | 342.10 | 3,890.53 | -0.14 | 2.19 | 0.07 | 0.07 | 0.00 | 12.87 |
| 3,986.00 | 0.70 | 355.50 | 3,985.53 | 0.67 | 2.07 | -0.74 | 0.44 | 0.42 | 14.11 |
| 4,080.00 | 0.70 | 358.80 | 4,079.52 | 1.82 | 2.01 | -1.88 | 0.04 | 0.00 | 3.51 |
| 4,175.00 | 0.60 | 349.30 | 4,174.51 | 2.89 | 1.91 | -2.95 | 0.15 | -0.11 | -10.00 |
| 4,270.00 | 0.50 | 344.00 | 4,269.51 | 3.78 | 1.70 | -3.83 | 0.12 | -0.11 | -5.58 |
| 4,365.00 | 0.60 | 339.20 | 4,364.51 | 4.64 | 1.41 | -4.68 | 0.12 | 0.11 | -5.05 |
| 4,460.00 | 0.70 | 347.30 | 4,459.50 | 5.67 | 1.11 | -5.70 | 0.14 | 0.11 | 8.53 |

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| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 4,555.00 | 0.90 | 340.40 | 4,554.49 | 6.94 | 0.73 | -6.96 | 0.23 | 0.21 | -7.26 |
| 4,650.00 | 0.70 | 341.40 | 4,649.48 | 8.19 | 0.30 | -8.20 | 0.21 | -0.21 | 1.05 |
| 4,745.00 | 0.80 | 335.50 | 4,744.47 | 9.35 | -0.16 | -9.34 | 0.13 | 0.11 | -6.21 |
| 4,840.00 | 0.70 | 339.90 | 4,839.46 | 10.50 | -0.64 | -10.47 | 0.12 | -0.11 | 4.63 |
| 4,934.00 | 0.70 | 330.00 | 4,933.46 | 11.53 | -1.12 | -11.49 | 0.13 | 0.00 | -10.53 |
| 5,030.00 | 0.80 | 321.60 | 5,029.45 | 12.56 | -1.83 | -12.50 | 0.15 | 0.10 | -8.75 |
| 5,126.00 | 0.70 | 334.10 | 5,125.44 | 13.62 | -2.51 | -13.53 | 0.20 | -0.10 | 13.02 |
| 5,222.00 | 0.80 | 318.10 | 5,221.43 | 14.64 | -3.21 | -14.54 | 0.24 | 0.10 | -16.67 |
| 5,317.00 | 0.40 | 300.80 | 5,316.43 | 15.31 | -3.94 | -15.18 | 0.46 | -0.42 | -18.21 |
| 5,411.00 | 0.30 | 282.40 | 5,410.43 | 15.53 | -4.46 | -15.38 | 0.16 | -0.11 | -19.57 |
| 5,506.00 | 0.50 | 289.90 | 5,505.42 | 15.72 | -5.09 | -15.56 | 0.22 | 0.21 | 7.89 |
| 5,601.00 | 1.10 | 313.80 | 5,600.41 | 16.49 | -6.14 | -16.30 | 0.71 | 0.63 | 25.16 |
| 5,696.00 | 1.10 | 320.30 | 5,695.40 | 17.83 | -7.38 | -17.59 | 0.13 | 0.00 | 6.84 |
| 5,792.00 | 1.20 | 311.00 | 5,791.38 | 19.20 | -8.73 | -18.92 | 0.22 | 0.10 | -9.69 |
| 5,887.00 | 1.10 | 333.90 | 5,886.36 | 20.67 | -9.88 | -20.35 | 0.49 | -0.11 | 24.11 |
| 5,982.00 | 1.30 | 322.90 | 5,981.34 | 22.35 | -10.93 | -22.00 | 0.32 | 0.21 | -11.58 |
| 6,078.00 | 1.10 | 343.40 | 6,077.32 | 24.10 | -11.85 | -23.72 | 0.49 | -0.21 | 21.35 |
| 6,173.00 | 1.10 | 323.50 | 6,172.30 | 25.70 | -12.65 | -25.30 | 0.40 | 0.00 | -20.95 |
| 6,269.00 | 0.70 | 343.00 | 6,268.29 | 27.01 | -13.37 | -26.58 | 0.52 | -0.42 | 20.31 |
| 6,364.00 | 0.70 | 348.10 | 6,363.28 | 28.13 | -13.66 | -27.69 | 0.07 | 0.00 | 5.37 |
| 6,459.00 | 0.60 | 347.60 | 6,458.28 | 29.18 | -13.89 | -28.74 | 0.11 | -0.11 | -0.53 |
| 6,554.00 | 0.70 | 338.20 | 6,553.27 | 30.21 | -14.21 | -29.75 | 0.15 | 0.11 | -9.89 |
| 6,650.00 | 1.00 | 347.00 | 6,649.26 | 31.57 | -14.62 | -31.10 | 0.34 | 0.31 | 9.17 |
| 6,745.00 | 1.10 | 329.10 | 6,744.24 | 33.16 | -15.27 | -32.67 | 0.36 | 0.11 | -18.84 |
| 6,841.00 | 1.30 | 319.30 | 6,840.22 | 34.77 | -16.46 | -34.25 | 0.30 | 0.21 | -10.21 |
| 6,936.00 | 1.10 | 314.10 | 6,935.20 | 36.23 | -17.81 | -35.66 | 0.24 | -0.21 | -5.47 |
| 7,032.00 | 1.20 | 314.00 | 7,031.18 | 37.57 | -19.20 | -36.95 | 0.10 | 0.10 | -0.10 |
| 7,127.00 | 1.10 | 298.20 | 7,126.16 | 38.69 | -20.72 | -38.03 | 0.35 | -0.11 | -16.63 |
| 7,223.00 | 1.20 | 274.90 | 7,222.14 | 39.21 | -22.53 | -38.49 | 0.49 | 0.10 | -24.27 |
| 7,318.00 | 1.20 | 285.30 | 7,317.12 | 39.56 | -24.48 | -38.78 | 0.23 | 0.00 | 10.95 |
| 7,415.00 | 1.20 | 285.40 | 7,414.10 | 40.09 | -26.44 | -39.25 | 0.00 | 0.00 | 0.10 |
| 7,442.00 | 1.10 | 276.80 | 7,441.10 | 40.20 | -26.97 | -39.34 | 0.74 | -0.37 | -31.85 |
| 7,548.00 | 0.90 | 249.50 | 7,547.08 | 40.03 | -28.76 | -39.12 | 0.48 | -0.19 | -25.75 |
| 7,643.00 | 0.80 | 329.60 | 7,642.07 | 40.34 | -29.80 | -39.39 | 1.15 | -0.11 | 84.32 |
| 7,737.00 | 3.00 | 353.10 | 7,736.02 | 43.35 | -30.42 | -42.38 | 2.43 | 2.34 | 25.00 |
| 7,831.00 | 3.50 | 2.00 | 7,829.87 | 48.66 | -30.62 | -47.68 | 0.75 | 0.53 | 9.47 |
| 7,925.00 | 2.70 | 355.00 | 7,923.73 | 53.73 | -30.71 | -52.75 | 0.94 | -0.85 | -7.45 |
| 8,020.00 | 2.70 | 2.80 | 8,018.62 | 58.19 | -30.80 | -57.21 | 0.39 | 0.00 | 8.21 |
| 8,115.00 | 3.80 | 3.20 | 8,113.47 | 63.57 | -30.51 | -62.59 | 1.16 | 1.16 | 0.42 |
| 8,210.00 | 3.60 | 2.10 | 8,208.27 | 69.70 | -30.23 | -68.72 | 0.22 | -0.21 | -1.16 |
| 8,307.00 | 3.60 | 359.40 | 8,305.08 | 75.78 | -30.15 | -74.81 | 0.17 | 0.00 | -2.78 |
| 8,402.00 | 2.90 | 1.40 | 8,399.93 | 81.17 | -30.12 | -80.19 | 0.75 | -0.74 | 2.11 |
| 8,498.00 | 3.70 | 356.30 | 8,495.77 | 86.69 | -30.26 | -85.71 | 0.89 | 0.83 | -5.31 |

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| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 8,593.00 | 4.00 | 7.50 | 8,590.55 | 93.03 | -30.03 | -92.06 | 0.85 | 0.32 | 11.79 |
| 8,690.00 | 3.30 | 0.80 | 8,687.36 | 99.18 | -29.54 | -98.21 | 0.84 | -0.72 | -6.91 |
| 8,786.00 | 3.30 | 346.70 | 8,783.20 | 104.63 | -30.14 | -103.64 | 0.84 | 0.00 | -14.69 |
| 8,851.74 | 3.79 | 343.08 | 8,848.81 | 108.55 | -31.21 | -107.53 | 0.81 | 0.74 | -5.50 |
| S-25_702H_FTP | | | | | | | | | |
| 8,880.00 | 4.00 | 341.80 | 8,877.01 | 110.38 | -31.79 | -109.34 | 0.81 | 0.75 | -4.54 |
| 8,975.00 | 3.40 | 331.80 | 8,971.81 | 116.01 | -34.15 | -114.89 | 0.93 | -0.63 | -10.53 |
| 9,050.59 | 3.39 | 338.10 | 9,047.26 | 120.06 | -36.05 | -118.88 | 0.49 | -0.01 | 8.34 |
| S-25_701H_FTP | | | | | | | | | |
| 9,071.00 | 3.40 | 339.80 | 9,067.64 | 121.19 | -36.48 | -120.00 | 0.49 | 0.03 | 8.32 |
| 9,174.00 | 2.90 | 333.30 | 9,170.49 | 126.38 | -38.71 | -125.12 | 0.60 | -0.49 | -6.31 |
| 9,268.00 | 3.00 | 351.70 | 9,264.36 | 130.94 | -40.13 | -129.63 | 1.01 | 0.11 | 19.57 |
| 9,363.00 | 4.10 | 10.50 | 9,359.18 | 136.74 | -39.87 | -135.44 | 1.67 | 1.16 | 19.79 |
| 9,458.00 | 3.50 | 12.20 | 9,453.97 | 142.91 | -38.64 | -141.65 | 0.64 | -0.63 | 1.79 |
| 9,555.00 | 3.30 | 14.60 | 9,550.80 | 148.51 | -37.31 | -147.28 | 0.25 | -0.21 | 2.47 |
| 9,613.00 | 2.60 | 17.60 | 9,608.73 | 151.38 | -36.49 | -150.17 | 1.24 | -1.21 | 5.17 |
| 9,650.00 | 1.90 | 25.10 | 9,645.70 | 152.74 | -35.98 | -151.54 | 2.05 | -1.89 | 20.27 |
| 9,682.00 | 0.40 | 77.60 | 9,677.69 | 153.24 | -35.64 | -152.06 | 5.27 | -4.69 | 164.06 |
| 9,711.00 | 2.20 | 182.50 | 9,706.68 | 152.71 | -35.57 | -151.53 | 8.05 | 6.21 | 361.72 |
| 9,746.00 | 4.10 | 191.40 | 9,741.63 | 150.81 | -35.85 | -149.62 | 5.59 | 5.43 | 25.43 |
| 9,777.00 | 6.40 | 193.60 | 9,772.50 | 148.04 | -36.47 | -146.84 | 7.45 | 7.42 | 7.10 |
| 9,808.00 | 8.50 | 196.10 | 9,803.23 | 144.16 | -37.51 | -142.93 | 6.85 | 6.77 | 8.06 |
| 9,840.00 | 10.50 | 196.20 | 9,834.79 | 139.09 | -38.98 | -137.81 | 6.25 | 6.25 | 0.31 |
| 9,872.00 | 13.00 | 194.30 | 9,866.12 | 132.80 | -40.69 | -131.47 | 7.90 | 7.81 | -5.94 |
| 9,903.00 | 14.90 | 194.80 | 9,896.20 | 125.57 | -42.56 | -124.18 | 6.14 | 6.13 | 1.61 |
| 9,935.00 | 16.60 | 196.70 | 9,927.00 | 117.21 | -44.93 | -115.76 | 5.55 | 5.31 | 5.94 |
| 9,967.00 | 17.80 | 197.90 | 9,957.57 | 108.18 | -47.75 | -106.64 | 3.91 | 3.75 | 3.75 |
| 9,999.00 | 21.50 | 197.80 | 9,987.70 | 97.94 | -51.04 | -96.30 | 11.56 | 11.56 | -0.31 |
| 10,030.00 | 25.30 | 196.80 | 10,016.15 | 86.18 | -54.70 | -84.44 | 12.32 | 12.26 | -3.23 |
| 10,062.00 | 28.50 | 195.30 | 10,044.68 | 72.27 | -58.69 | -70.41 | 10.22 | 10.00 | -4.69 |
| 10,094.00 | 32.20 | 194.90 | 10,072.29 | 56.66 | -62.90 | -54.68 | 11.58 | 11.56 | -1.25 |
| 10,126.00 | 36.80 | 195.20 | 10,098.66 | 39.16 | -67.60 | -37.04 | 14.38 | 14.37 | 0.94 |
| 10,158.00 | 41.30 | 196.00 | 10,123.50 | 19.75 | -73.03 | -17.47 | 14.15 | 14.06 | 2.50 |
| 10,190.00 | 45.70 | 196.60 | 10,146.71 | -1.38 | -79.22 | 3.84 | 13.81 | 13.75 | 1.87 |
| 10,222.00 | 49.70 | 195.70 | 10,168.24 | -24.12 | -85.79 | 26.77 | 12.67 | 12.50 | -2.81 |
| 10,253.00 | 52.90 | 194.60 | 10,187.62 | -47.47 | -92.11 | 50.30 | 10.69 | 10.32 | -3.55 |
| 10,285.00 | 56.40 | 194.40 | 10,206.13 | -72.73 | -98.64 | 75.76 | 10.95 | 10.94 | -0.62 |
| 10,317.00 | 59.70 | 194.00 | 10,223.06 | -99.05 | -105.30 | 102.27 | 10.37 | 10.31 | -1.25 |
| 10,348.00 | 63.60 | 193.90 | 10,237.78 | -125.52 | -111.88 | 128.94 | 12.58 | 12.58 | -0.32 |
| 10,380.00 | 66.90 | 194.20 | 10,251.18 | -153.71 | -118.93 | 157.33 | 10.35 | 10.31 | 0.94 |
| 10,411.00 | 70.60 | 194.90 | 10,262.41 | -181.67 | -126.19 | 185.50 | 12.12 | 11.94 | 2.26 |
| 10,443.00 | 74.00 | 196.30 | 10,272.14 | -211.03 | -134.39 | 215.10 | 11.41 | 10.62 | 4.37 |
| 10,475.00 | 77.60 | 196.90 | 10,279.99 | -240.75 | -143.25 | 245.08 | 11.40 | 11.25 | 1.87 |

| | | | |
|---|---|---|---|
| **Company:** | XTO Energy | **Local Co-ordinate Reference:** | Well Remuda South 25 State 101H - Slot S-25_101H |
| **Project:** | Eddy County, NM (NAD27) NMEZ | **TVD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Site:** | Remuda South 25 State Pad | **MD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Well:** | Remuda South 25 State 101H | **North Reference:** | Grid |
| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 10,506.00 | 82.00 | 196.20 | 10,285.47 | -269.99 | -151.94 | 274.58 | 14.37 | 14.19 | -2.26 |
| 10,543.00 | 86.00 | 195.30 | 10,289.34 | -305.40 | -161.92 | 310.28 | 11.08 | 10.81 | -2.43 |
| 10,581.00 | 88.60 | 194.80 | 10,291.13 | -342.05 | -171.78 | 347.22 | 6.97 | 6.84 | -1.32 |
| 10,621.00 | 89.43 | 194.32 | 10,291.82 | -380.76 | -181.83 | 386.22 | 2.40 | 2.07 | -1.21 |
| **Wellpath Crosses North Line** | | | | | | | | | |
| 10,639.00 | 89.80 | 194.10 | 10,291.94 | -398.21 | -186.25 | 403.80 | 2.40 | 2.07 | -1.21 |
| 10,649.87 | 89.99 | 193.85 | 10,291.96 | -408.76 | -188.88 | 414.43 | 2.89 | 1.70 | -2.34 |
| **S-25_101H_LP p4** | | | | | | | | | |
| 10,651.33 | 90.01 | 193.81 | 10,291.96 | -410.17 | -189.22 | 415.85 | 2.89 | 1.70 | -2.34 |
| **S-25_101H_LP** | | | | | | | | | |
| 10,686.00 | 90.60 | 193.00 | 10,291.78 | -443.90 | -197.26 | 449.81 | 2.89 | 1.70 | -2.34 |
| 10,733.00 | 90.90 | 191.70 | 10,291.16 | -489.81 | -207.31 | 496.01 | 2.84 | 0.64 | -2.77 |
| 10,829.00 | 91.10 | 190.00 | 10,289.49 | -584.07 | -225.38 | 590.79 | 1.78 | 0.21 | -1.77 |
| 10,844.06 | 90.94 | 190.00 | 10,289.22 | -598.90 | -228.00 | 605.69 | 1.05 | -1.05 | 0.00 |
| **S-25_122H_FTP** | | | | | | | | | |
| 10,847.36 | 90.91 | 190.00 | 10,289.16 | -602.15 | -228.57 | 608.96 | 1.05 | -1.05 | 0.00 |
| **S-25_902H_FTP** | | | | | | | | | |
| 10,924.00 | 90.10 | 190.00 | 10,288.49 | -677.62 | -241.88 | 684.81 | 1.05 | -1.05 | 0.00 |
| 10,954.00 | 89.66 | 189.50 | 10,288.55 | -707.19 | -246.96 | 714.52 | 2.21 | -1.46 | -1.67 |
| **Wellpath Crosses FTP** | | | | | | | | | |
| 10,960.39 | 89.57 | 189.39 | 10,288.60 | -713.49 | -248.01 | 720.85 | 2.21 | -1.46 | -1.67 |
| **S-25_101H_FTP** | | | | | | | | | |
| 10,964.70 | 89.51 | 189.32 | 10,288.63 | -717.74 | -248.71 | 725.12 | 2.21 | -1.46 | -1.67 |
| **S-25_121H_FTP** | | | | | | | | | |
| 11,020.00 | 88.70 | 188.40 | 10,289.50 | -772.38 | -257.22 | 779.99 | 2.21 | -1.46 | -1.67 |
| 11,115.00 | 87.87 | 184.43 | 10,292.34 | -866.72 | -267.83 | 874.62 | 4.27 | -0.87 | -4.18 |
| 11,162.00 | 88.00 | 182.80 | 10,294.03 | -913.59 | -270.79 | 921.56 | 3.48 | 0.28 | -3.47 |
| 11,211.00 | 88.50 | 181.10 | 10,295.53 | -962.54 | -272.46 | 970.54 | 3.61 | 1.02 | -3.47 |
| 11,306.00 | 89.80 | 177.70 | 10,296.94 | -1,057.51 | -271.46 | 1,065.43 | 3.83 | 1.37 | -3.58 |
| 11,402.00 | 91.60 | 177.10 | 10,295.77 | -1,153.40 | -267.11 | 1,161.14 | 1.98 | 1.87 | -0.62 |
| 11,497.00 | 91.50 | 176.40 | 10,293.20 | -1,248.21 | -261.73 | 1,255.74 | 0.74 | -0.11 | -0.74 |
| 11,592.00 | 90.30 | 176.80 | 10,291.71 | -1,343.03 | -256.09 | 1,350.34 | 1.33 | -1.26 | 0.42 |
| 11,688.00 | 90.60 | 177.40 | 10,290.95 | -1,438.90 | -251.24 | 1,446.01 | 0.70 | 0.31 | 0.62 |
| 11,783.00 | 87.70 | 178.10 | 10,292.36 | -1,533.81 | -247.51 | 1,540.76 | 3.14 | -3.05 | 0.74 |
| 11,879.00 | 89.90 | 180.80 | 10,294.37 | -1,629.77 | -246.59 | 1,636.64 | 3.63 | 2.29 | 2.81 |
| 11,975.00 | 89.60 | 179.80 | 10,294.79 | -1,725.77 | -247.09 | 1,732.61 | 1.09 | -0.31 | -1.04 |
| 12,070.00 | 89.70 | 180.30 | 10,295.37 | -1,820.76 | -247.17 | 1,827.56 | 0.54 | 0.11 | 0.53 |
| 12,166.00 | 90.40 | 179.90 | 10,295.29 | -1,916.76 | -247.34 | 1,923.52 | 0.84 | 0.73 | -0.42 |
| 12,262.00 | 90.70 | 181.30 | 10,294.37 | -2,012.75 | -248.35 | 2,019.49 | 1.49 | 0.31 | 1.46 |
| 12,359.00 | 88.40 | 179.20 | 10,295.13 | -2,109.73 | -248.77 | 2,116.44 | 3.21 | -2.37 | -2.16 |
| 12,453.00 | 90.70 | 179.30 | 10,295.87 | -2,203.72 | -247.54 | 2,210.34 | 2.45 | 2.45 | 0.11 |
| 12,549.00 | 89.70 | 179.40 | 10,295.53 | -2,299.71 | -246.45 | 2,306.25 | 1.05 | -1.04 | 0.10 |
| 12,644.00 | 88.10 | 178.90 | 10,297.35 | -2,394.68 | -245.04 | 2,401.13 | 1.76 | -1.68 | -0.53 |
| 12,739.00 | 90.30 | 179.50 | 10,298.68 | -2,489.65 | -243.71 | 2,496.02 | 2.40 | 2.32 | 0.63 |

# Survey Report

| | | | |
|---|---|---|---|
| **Company:** | XTO Energy | **Local Co-ordinate Reference:** | Well Remuda South 25 State 101H - Slot S-25_101H |
| **Project:** | Eddy County, NM (NAD27) NMEZ | **TVD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Site:** | Remuda South 25 State Pad | **MD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Well:** | Remuda South 25 State 101H | **North Reference:** | Grid |
| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 12,835.00 | 90.60 | 180.10 | 10,297.93 | -2,585.65 | -243.38 | 2,591.96 | 0.70 | 0.31 | 0.62 |
| 12,931.00 | 88.20 | 180.90 | 10,298.93 | -2,681.63 | -244.22 | 2,687.92 | 2.64 | -2.50 | 0.83 |
| 13,027.00 | 89.90 | 181.20 | 10,300.52 | -2,777.60 | -245.98 | 2,783.90 | 1.80 | 1.77 | 0.31 |
| 13,122.00 | 89.10 | 180.70 | 10,301.35 | -2,872.58 | -247.55 | 2,878.88 | 0.99 | -0.84 | -0.53 |
| 13,217.00 | 91.20 | 180.00 | 10,301.10 | -2,967.57 | -248.13 | 2,973.85 | 2.33 | 2.21 | -0.74 |
| 13,313.00 | 89.90 | 179.20 | 10,300.18 | -3,063.56 | -247.46 | 3,069.77 | 1.59 | -1.35 | -0.83 |
| 13,407.00 | 89.90 | 178.10 | 10,300.35 | -3,157.54 | -245.25 | 3,163.63 | 1.17 | 0.00 | -1.17 |
| 13,502.00 | 88.90 | 179.40 | 10,301.34 | -3,252.50 | -243.17 | 3,258.49 | 1.73 | -1.05 | 1.37 |
| 13,597.00 | 90.10 | 179.40 | 10,302.17 | -3,347.49 | -242.18 | 3,353.40 | 1.26 | 1.26 | 0.00 |
| 13,693.00 | 90.00 | 179.80 | 10,302.09 | -3,443.49 | -241.51 | 3,449.33 | 0.43 | -0.10 | 0.42 |
| 13,788.00 | 89.30 | 181.10 | 10,302.67 | -3,538.48 | -242.26 | 3,544.30 | 1.55 | -0.74 | 1.37 |
| 13,885.00 | 91.80 | 181.70 | 10,301.74 | -3,635.44 | -244.62 | 3,641.29 | 2.65 | 2.58 | 0.62 |
| 13,980.00 | 91.01 | 180.80 | 10,299.41 | -3,730.39 | -246.70 | 3,736.25 | 1.26 | -0.83 | -0.95 |
| 14,075.00 | 89.20 | 180.30 | 10,299.23 | -3,825.38 | -247.61 | 3,831.23 | 1.98 | -1.91 | -0.53 |
| 14,171.00 | 88.80 | 179.70 | 10,300.91 | -3,921.37 | -247.61 | 3,927.16 | 0.75 | -0.42 | -0.62 |
| 14,266.00 | 89.90 | 179.60 | 10,301.99 | -4,016.36 | -247.03 | 4,022.09 | 1.16 | 1.16 | -0.11 |
| 14,362.00 | 89.80 | 180.10 | 10,302.24 | -4,112.36 | -246.78 | 4,118.04 | 0.53 | -0.10 | 0.52 |
| 14,455.00 | 88.70 | 179.40 | 10,303.45 | -4,205.34 | -246.37 | 4,210.97 | 1.40 | -1.18 | -0.75 |
| 14,551.00 | 91.10 | 179.10 | 10,303.62 | -4,301.33 | -245.11 | 4,306.87 | 2.52 | 2.50 | -0.31 |
| 14,646.00 | 92.02 | 179.63 | 10,301.04 | -4,396.29 | -244.06 | 4,401.75 | 1.12 | 0.97 | 0.56 |
| 14,740.00 | 88.09 | 178.90 | 10,300.95 | -4,490.26 | -242.86 | 4,495.64 | 4.25 | -4.18 | -0.78 |
| 14,835.00 | 90.50 | 180.60 | 10,302.11 | -4,585.24 | -242.44 | 4,590.56 | 3.10 | 2.54 | 1.79 |
| 14,930.00 | 89.20 | 180.70 | 10,302.36 | -4,680.23 | -243.52 | 4,685.54 | 1.37 | -1.37 | 0.11 |
| 15,025.00 | 90.50 | 180.60 | 10,302.61 | -4,775.22 | -244.60 | 4,780.52 | 1.37 | 1.37 | -0.11 |
| 15,120.00 | 89.90 | 180.70 | 10,302.28 | -4,870.22 | -245.68 | 4,875.50 | 0.64 | -0.63 | 0.11 |
| 15,215.00 | 86.80 | 179.90 | 10,305.01 | -4,965.16 | -246.17 | 4,970.42 | 3.37 | -3.26 | -0.84 |
| 15,311.00 | 88.10 | 179.80 | 10,309.29 | -5,061.07 | -245.92 | 5,066.26 | 1.36 | 1.35 | -0.10 |
| 15,408.00 | 90.90 | 180.20 | 10,310.13 | -5,158.05 | -245.92 | 5,163.20 | 2.92 | 2.89 | 0.41 |
| 15,504.00 | 89.50 | 179.38 | 10,309.80 | -5,254.05 | -245.57 | 5,259.14 | 1.69 | -1.46 | -0.85 |
| 15,600.00 | 90.17 | 179.30 | 10,310.07 | -5,350.04 | -244.46 | 5,355.05 | 0.70 | 0.70 | -0.08 |
| 15,696.00 | 90.81 | 179.30 | 10,309.25 | -5,446.03 | -243.29 | 5,450.96 | 0.67 | 0.67 | 0.00 |
| 15,791.00 | 88.90 | 178.40 | 10,309.49 | -5,541.01 | -241.38 | 5,545.83 | 2.22 | -2.01 | -0.95 |
| 15,887.00 | 89.50 | 178.50 | 10,310.83 | -5,636.96 | -238.79 | 5,641.66 | 0.63 | 0.62 | 0.10 |
| 15,982.00 | 88.00 | 177.80 | 10,312.91 | -5,731.89 | -235.72 | 5,736.44 | 1.74 | -1.58 | -0.74 |
| 16,076.00 | 89.50 | 178.20 | 10,314.96 | -5,825.80 | -232.44 | 5,830.21 | 1.65 | 1.60 | 0.43 |
| 16,170.00 | 92.10 | 179.10 | 10,313.64 | -5,919.76 | -230.23 | 5,924.05 | 2.93 | 2.77 | 0.96 |
| 16,265.00 | 91.20 | 180.40 | 10,310.91 | -6,014.72 | -229.81 | 6,018.95 | 1.66 | -0.95 | 1.37 |
| 16,360.00 | 89.75 | 181.44 | 10,310.12 | -6,109.70 | -231.34 | 6,113.93 | 1.88 | -1.53 | 1.09 |
| 16,456.00 | 88.30 | 181.40 | 10,311.75 | -6,205.65 | -233.72 | 6,209.92 | 1.51 | -1.51 | -0.04 |
| 16,551.00 | 88.40 | 181.30 | 10,314.49 | -6,300.58 | -235.96 | 6,304.87 | 0.15 | 0.11 | -0.11 |
| 16,647.00 | 88.71 | 180.00 | 10,316.91 | -6,396.55 | -237.04 | 6,400.82 | 1.39 | 0.32 | -1.35 |
| 16,742.00 | 89.50 | 179.80 | 10,318.39 | -6,491.53 | -236.88 | 6,495.76 | 0.86 | 0.83 | -0.21 |

| | | | |
|---|---|---|---|
| **Company:** | XTO Energy | **Local Co-ordinate Reference:** | Well Remuda South 25 State 101H - Slot S-25_101H |
| **Project:** | Eddy County, NM (NAD27) NMEZ | **TVD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Site:** | Remuda South 25 State Pad | **MD Reference:** | 3062+22 @ 3084.00usft (Orion Perseus) |
| **Well:** | Remuda South 25 State 101H | **North Reference:** | Grid |
| **Wellbore:** | Lateral | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Lateral | **Database:** | TRUEPERF_EDM |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 16,837.00 | 90.30 | 179.80 | 10,318.56 | -6,586.53 | -236.55 | 6,590.70 | 0.84 | 0.84 | 0.00 |
| 16,933.00 | 90.50 | 179.60 | 10,317.89 | -6,682.53 | -236.04 | 6,686.63 | 0.29 | 0.21 | -0.21 |
| 17,028.00 | 90.70 | 179.60 | 10,316.90 | -6,777.52 | -235.38 | 6,781.56 | 0.21 | 0.21 | 0.00 |
| 17,124.00 | 91.20 | 179.20 | 10,315.30 | -6,873.50 | -234.38 | 6,877.46 | 0.67 | 0.52 | -0.42 |
| 17,219.00 | 90.50 | 179.30 | 10,313.89 | -6,968.48 | -233.13 | 6,972.36 | 0.74 | -0.74 | 0.11 |
| 17,314.00 | 89.40 | 178.60 | 10,313.98 | -7,063.46 | -231.39 | 7,067.24 | 1.37 | -1.16 | -0.74 |
| 17,410.00 | 89.50 | 178.70 | 10,314.90 | -7,159.43 | -229.13 | 7,163.10 | 0.15 | 0.10 | 0.10 |
| 17,507.00 | 90.70 | 179.00 | 10,314.73 | -7,256.41 | -227.18 | 7,259.97 | 1.28 | 1.24 | 0.31 |
| 17,603.00 | 91.80 | 178.80 | 10,312.64 | -7,352.37 | -225.34 | 7,355.82 | 1.16 | 1.15 | -0.21 |
| 17,699.00 | 90.00 | 179.40 | 10,311.13 | -7,448.34 | -223.83 | 7,451.70 | 1.98 | -1.87 | 0.62 |
| 17,794.00 | 90.50 | 179.00 | 10,310.71 | -7,543.33 | -222.51 | 7,546.60 | 0.67 | 0.53 | -0.42 |
| 17,889.00 | 89.50 | 179.90 | 10,310.71 | -7,638.32 | -221.60 | 7,641.52 | 1.42 | -1.05 | 0.95 |
| 17,984.00 | 90.20 | 180.00 | 10,310.96 | -7,733.32 | -221.51 | 7,736.47 | 0.74 | 0.74 | 0.11 |
| 18,079.00 | 91.00 | 180.00 | 10,309.97 | -7,828.32 | -221.51 | 7,831.42 | 0.84 | 0.84 | 0.00 |
| 18,175.00 | 90.20 | 180.40 | 10,308.96 | -7,924.31 | -221.85 | 7,927.38 | 0.93 | -0.83 | 0.42 |
| 18,267.59 | 89.62 | 180.50 | 10,309.11 | -8,016.90 | -222.57 | 8,019.94 | 0.64 | -0.63 | 0.11 |
| **S-25_702H_LTP** | | | | | | | | | |
| 18,268.17 | 89.62 | 180.50 | 10,309.12 | -8,017.48 | -222.58 | 8,020.52 | 0.00 | 0.00 | 0.00 |
| **S-25_701H_LTP** | | | | | | | | | |
| 18,269.92 | 89.60 | 180.50 | 10,309.13 | -8,019.23 | -222.59 | 8,022.27 | 0.85 | -0.84 | 0.14 |
| **S-25_902H_LTP** | | | | | | | | | |
| 18,270.00 | 89.60 | 180.50 | 10,309.13 | -8,019.31 | -222.59 | 8,022.35 | 0.64 | -0.63 | 0.11 |
| 18,271.10 | 89.61 | 180.50 | 10,309.14 | -8,020.41 | -222.60 | 8,023.45 | 0.75 | 0.71 | -0.24 |
| **S-25_122H_LTP** | | | | | | | | | |
| 18,276.00 | 89.64 | 180.49 | 10,309.17 | -8,025.31 | -222.64 | 8,028.35 | 0.75 | 0.71 | -0.24 |
| **Wellpath Crosses LTP** | | | | | | | | | |
| 18,276.57 | 89.64 | 180.49 | 10,309.17 | -8,025.88 | -222.65 | 8,028.92 | 0.00 | 0.00 | 0.00 |
| **S-25_101H_LTP** | | | | | | | | | |
| 18,277.59 | 89.65 | 180.48 | 10,309.18 | -8,026.90 | -222.66 | 8,029.94 | 1.18 | 1.12 | -0.37 |
| **S-25_121H_LTP** | | | | | | | | | |
| 18,312.00 | 89.90 | 180.40 | 10,309.31 | -8,061.30 | -222.92 | 8,064.34 | 0.75 | 0.71 | -0.24 |
| 18,364.00 | 89.90 | 180.40 | 10,309.40 | -8,113.30 | -223.29 | 8,116.32 | 0.00 | 0.00 | 0.00 |
| **TD @ 239'FSL, 382'FWL - S-25_101H_BHL - S-25_101H_PBHL p4 - S-25_702H_PBHL - S-25_902H_PBHL - S-25_122H_PBHL - S-25_101H** | | | | | | | | | |

| | | | |
|---|---|---|---|
| Company: | XTO Energy | Local Co-ordinate Reference: | Well Remuda South 25 State 101H - Slot S-25_101H |
| Project: | Eddy County, NM (NAD27) NMEZ | TVD Reference: | 3062+22 @ 3084.00usft (Orion Perseus) |
| Site: | Remuda South 25 State Pad | MD Reference: | 3062+22 @ 3084.00usft (Orion Perseus) |
| Well: | Remuda South 25 State 101H | North Reference: | Grid |
| Wellbore: | Lateral | Survey Calculation Method: | Minimum Curvature |
| Design: | Lateral | Database: | TRUEPERF_EDM |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| S-25_101H_SL<br>- actual wellpath hits target center<br>- Point | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 464,639.70 | 620,248.40 | 32° 16' 36.514 N | 103° 56' 39.338 W |
| S-25_101H_BHL<br>- actual wellpath misses target center by 2.34usft at 18364.00usft MD (10309.40 TVD, -8113.30 N, -223.29 E)<br>- Point | 0.00 | 0.00 | 10,311.74 | -8,113.30 | -223.29 | 456,526.38 | 620,025.11 | 32° 15' 16.232 N | 103° 56' 42.281 W |
| S-25_101H_PBHL p4<br>- actual wellpath misses target center by 52.52usft at 18364.00usft MD (10309.40 TVD, -8113.30 N, -223.29 E)<br>- Rectangle (sides W50.00 H7,442.00 D0.00) | 0.00 | 0.00 | 10,315.00 | -8,155.57 | -253.96 | 456,484.11 | 619,994.44 | 32° 15' 15.815 N | 103° 56' 42.640 W |

**Design Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 10,621.00 | 10,291.82 | -380.76 | -181.83 | Wellpath Crosses North Line |
| 10,954.00 | 10,288.55 | -707.19 | -246.96 | Wellpath Crosses FTP |
| 18,276.00 | 10,309.17 | -8,025.31 | -222.64 | Wellpath Crosses LTP |
| 18,364.00 | 10,309.40 | -8,113.30 | -223.29 | TD @ 239'FSL, 382'FWL |

Checked By: _____ Approved By: _____ Date: _____