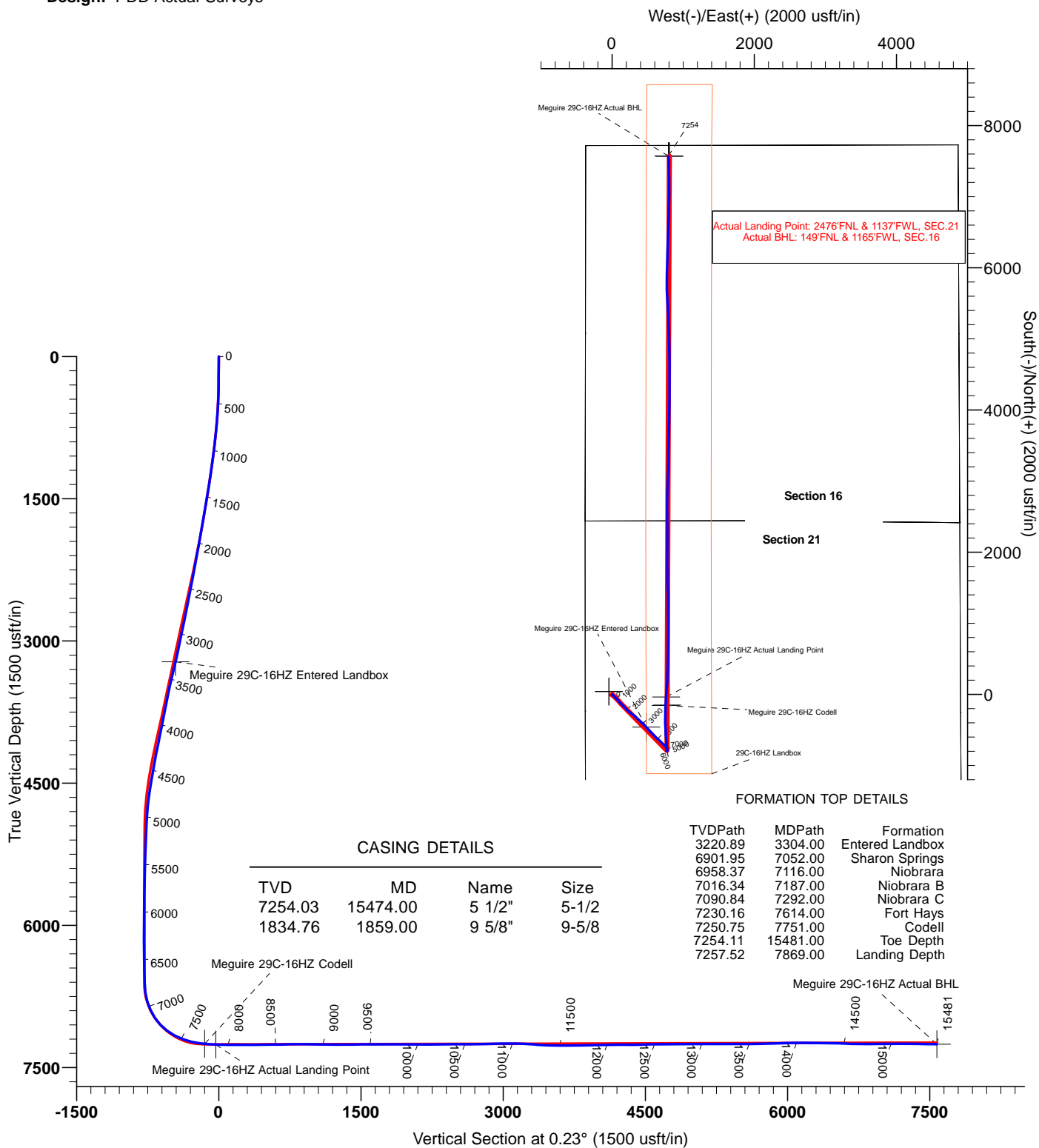


US ROCKIES WATTENBERG PLANNING



Project: WELD-NAD83-UTMFT13N
 Site: 2N-65W-21 Meguire 5-1HZ Pad
 Well: Meguire 29C-16HZ
 Wellbore: Meguire 29C-16HZ
 Design: PDD Actual Surveys



TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---------------------------------------|---------|---------|--------|-------------|------------|-----------|-------------|-------|
| Meguire 29C-16HZ Entered Landbox | 3220.89 | -458.08 | 481.35 | 14571871.75 | 1731172.65 | 40.123502 | -104.675345 | Point |
| Meguire 29C-16HZ Codell | 7250.75 | -152.69 | 752.39 | 14572178.11 | 1731442.58 | 40.124341 | -104.674376 | Point |
| Meguire 29C-16HZ Actual BHL | 7254.11 | 7572.34 | 793.45 | 14579903.24 | 1731455.57 | 40.145554 | -104.674228 | Point |
| Meguire 29C-16HZ Actual Landing Point | 7257.52 | -35.15 | 760.10 | 14572295.68 | 1731449.86 | 40.124663 | -104.674348 | Point |



US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

2N-65W-21 Meguire 5-1HZ Pad

Meguire 29C-16HZ

Meguire 29C-16HZ

Design: PDD Actual Surveys

Standard Survey Report

17 November, 2015

PDD

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| | | | |
|--------------------|--|----------------------|----------------|
| Project | WELD-NAD83-UTMFT13N | | |
| Map System: | Universal Transverse Mercator (US Survey Feet) | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Zone 13N (108 W to 102 W) | | |

| | | | | | | | | | |
|-----------------------|----------|---|---------------|--------------|------------|-------------|-------------------|------|---|
| Site | | 2N-65W-21 Meguire 5-1HZ Pad, Centered on Meguire 30N-16HZ | | | | | | | |
| Site Position: | | Northing: | 14,572,368.33 | usft | Latitude: | 40.124871 | | | |
| From: | Lat/Long | Easting: | 1,730,645.04 | usft | Longitude: | -104.677226 | | | |
| Position Uncertainty: | | 0.00 | usft | Slot Radius: | 13-3/16 | " | Grid Convergence: | 0.21 | ° |

| | | | | | | |
|----------------------|------------------|-----------|---------------------|--------------------|---------------|---------------|
| Well | Meguire 29C-16HZ | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 14,572,328.07 usft | Latitude: | 40.124760 |
| | +E/-W | 0.00 usft | Easting: | 1,730,689.64 usft | Longitude: | -104.677067 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 4,896.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Meguire 29C-16HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 1/26/2015 | 8.31 | 66.72 | 52,614 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | PDD Actual Surveys | | | | |
| 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 | 0.23 | |

| | | | | | |
|-----------------------|------------------|--------------------------------------|-----------------------|------------------------------------|--|
| Survey Program | Date | 11/17/2015 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 126.00 | 1,808.00 | SDI MWD Surveys (Meguire 29C-16HZ) | APC_ISCWSA REV 2 MWD | Fixed:v2:standard declination | |
| 1,946.00 | 15,414.00 | PDD MWD+IFR Surveys (Meguire 29C-16) | APC_ISCWSA REV 2 MWD+ | Fixed:v2:crustal field declination | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| 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 | |
| 126.00 | 0.63 | 190.36 | 126.00 | -0.68 | -0.12 | -0.68 | 0.50 | 0.50 | 0.00 | |
| 217.00 | 0.87 | 153.40 | 216.99 | -1.79 | 0.09 | -1.79 | 0.58 | 0.26 | -40.62 | |
| 308.00 | 1.91 | 105.72 | 307.96 | -2.82 | 1.86 | -2.81 | 1.62 | 1.14 | -52.40 | |
| 385.00 | 2.68 | 125.00 | 384.90 | -4.20 | 4.57 | -4.18 | 1.40 | 1.00 | 25.04 | |
| 475.00 | 3.62 | 128.21 | 474.77 | -7.16 | 8.53 | -7.13 | 1.06 | 1.04 | 3.57 | |
| 565.00 | 4.90 | 130.00 | 564.52 | -11.39 | 13.71 | -11.34 | 1.43 | 1.42 | 1.99 | |
| 655.00 | 6.12 | 135.00 | 654.10 | -17.26 | 20.04 | -17.18 | 1.46 | 1.36 | 5.56 | |
| 746.00 | 7.77 | 133.87 | 744.43 | -24.95 | 27.91 | -24.84 | 1.82 | 1.81 | -1.24 | |
| 836.00 | 8.88 | 134.43 | 833.48 | -34.03 | 37.26 | -33.88 | 1.24 | 1.23 | 0.62 | |

PDD Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| 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) |
| 926.00 | 8.86 | 130.75 | 922.40 | -43.42 | 47.47 | -43.23 | 0.63 | -0.02 | -4.09 |
| 1,015.00 | 10.34 | 136.54 | 1,010.16 | -53.69 | 58.15 | -53.45 | 1.98 | 1.66 | 6.51 |
| 1,105.00 | 10.88 | 138.19 | 1,098.62 | -65.88 | 69.37 | -65.60 | 0.69 | 0.60 | 1.83 |
| 1,196.00 | 10.86 | 138.70 | 1,187.98 | -78.72 | 80.76 | -78.40 | 0.11 | -0.02 | 0.56 |
| 1,286.00 | 11.33 | 139.30 | 1,276.30 | -91.80 | 92.12 | -91.43 | 0.54 | 0.52 | 0.67 |
| 1,376.00 | 11.75 | 138.29 | 1,364.48 | -105.34 | 103.98 | -104.92 | 0.52 | 0.47 | -1.12 |
| 1,466.00 | 12.91 | 135.33 | 1,452.41 | -119.33 | 117.15 | -118.86 | 1.47 | 1.29 | -3.29 |
| 1,556.00 | 12.63 | 137.68 | 1,540.18 | -133.76 | 130.84 | -133.23 | 0.66 | -0.31 | 2.61 |
| 1,646.00 | 12.66 | 136.30 | 1,628.00 | -148.16 | 144.28 | -147.58 | 0.34 | 0.03 | -1.53 |
| 1,736.00 | 14.24 | 136.37 | 1,715.53 | -163.31 | 158.73 | -162.67 | 1.76 | 1.76 | 0.08 |
| 1,808.00 | 14.25 | 135.77 | 1,785.31 | -176.06 | 171.02 | -175.38 | 0.21 | 0.01 | -0.83 |
| 1,946.00 | 13.80 | 135.10 | 1,919.20 | -199.89 | 194.49 | -199.11 | 0.35 | -0.33 | -0.49 |
| 2,131.00 | 15.30 | 133.30 | 2,098.26 | -232.26 | 227.83 | -231.35 | 0.85 | 0.81 | -0.97 |
| 2,317.00 | 17.00 | 127.80 | 2,276.93 | -265.76 | 267.18 | -264.69 | 1.23 | 0.91 | -2.96 |
| 2,502.00 | 17.20 | 127.70 | 2,453.75 | -299.07 | 310.19 | -297.82 | 0.11 | 0.11 | -0.05 |
| 2,686.00 | 15.70 | 134.00 | 2,630.22 | -333.00 | 349.63 | -331.60 | 1.27 | -0.82 | 3.42 |
| 2,873.00 | 17.70 | 133.20 | 2,809.33 | -370.04 | 388.55 | -368.48 | 1.08 | 1.07 | -0.43 |
| 3,063.00 | 16.40 | 133.40 | 2,990.97 | -408.24 | 429.10 | -406.52 | 0.68 | -0.68 | 0.11 |
| 3,253.00 | 18.10 | 133.50 | 3,172.42 | -446.99 | 470.00 | -445.10 | 0.89 | 0.89 | 0.05 |
| 3,444.00 | 18.40 | 139.50 | 3,353.83 | -490.34 | 511.10 | -488.29 | 1.00 | 0.16 | 3.14 |
| 3,635.00 | 14.90 | 137.00 | 3,536.80 | -531.24 | 547.44 | -529.03 | 1.87 | -1.83 | -1.31 |
| 3,824.00 | 16.10 | 137.80 | 3,718.92 | -568.42 | 581.61 | -566.08 | 0.64 | 0.63 | 0.42 |
| 4,014.00 | 16.00 | 131.10 | 3,901.53 | -605.16 | 619.05 | -602.67 | 0.98 | -0.05 | -3.53 |
| 4,204.00 | 17.10 | 132.80 | 4,083.66 | -641.35 | 659.28 | -638.70 | 0.63 | 0.58 | 0.89 |
| 4,393.00 | 15.40 | 133.10 | 4,265.10 | -677.38 | 697.99 | -674.57 | 0.90 | -0.90 | 0.16 |
| 4,582.00 | 13.70 | 134.30 | 4,448.03 | -710.16 | 732.33 | -707.21 | 0.91 | -0.90 | 0.63 |
| 4,771.00 | 9.00 | 152.20 | 4,633.34 | -738.89 | 755.27 | -735.86 | 3.08 | -2.49 | 9.47 |
| 4,958.00 | 5.60 | 139.70 | 4,818.81 | -758.80 | 767.99 | -755.71 | 2.00 | -1.82 | -6.68 |
| 5,146.00 | 2.50 | 158.00 | 5,006.32 | -769.60 | 775.47 | -766.48 | 1.77 | -1.65 | 9.73 |
| 5,333.00 | 2.10 | 160.50 | 5,193.17 | -776.61 | 778.14 | -773.48 | 0.22 | -0.21 | 1.34 |
| 5,522.00 | 1.70 | 170.40 | 5,382.07 | -782.64 | 779.76 | -779.50 | 0.27 | -0.21 | 5.24 |
| 5,709.00 | 1.10 | 187.80 | 5,569.01 | -787.15 | 779.98 | -784.01 | 0.39 | -0.32 | 9.30 |
| 5,900.00 | 0.80 | 224.50 | 5,759.98 | -789.92 | 778.80 | -786.79 | 0.35 | -0.16 | 19.21 |
| 6,090.00 | 1.30 | 243.50 | 5,949.95 | -791.83 | 775.94 | -788.70 | 0.32 | 0.26 | 10.00 |
| 6,280.00 | 0.80 | 271.90 | 6,139.92 | -792.74 | 772.68 | -789.64 | 0.37 | -0.26 | 14.95 |
| 6,471.00 | 1.50 | 309.90 | 6,330.88 | -791.10 | 769.43 | -788.00 | 0.52 | 0.37 | 19.90 |
| 6,565.00 | 1.80 | 309.20 | 6,424.85 | -789.37 | 767.34 | -786.29 | 0.32 | 0.32 | -0.74 |
| 6,660.00 | 1.80 | 303.00 | 6,519.80 | -787.62 | 764.94 | -784.54 | 0.20 | 0.00 | -6.53 |
| 6,755.00 | 1.20 | 338.00 | 6,614.77 | -785.88 | 763.31 | -782.81 | 1.12 | -0.63 | 36.84 |
| 6,851.00 | 9.00 | 4.00 | 6,710.32 | -777.45 | 763.46 | -774.38 | 8.27 | 8.13 | 27.08 |
| 6,946.00 | 16.80 | 5.10 | 6,802.85 | -756.33 | 765.20 | -753.25 | 8.21 | 8.21 | 1.16 |
| 7,041.00 | 23.70 | 2.30 | 6,891.93 | -723.53 | 767.19 | -720.45 | 7.33 | 7.26 | -2.95 |
| 7,136.00 | 33.50 | 356.80 | 6,975.25 | -678.16 | 766.49 | -675.08 | 10.67 | 10.32 | -5.79 |

PDD Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| 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) |
| 7,231.00 | 43.90 | 353.70 | 7,049.29 | -619.08 | 761.40 | -616.02 | 11.13 | 10.95 | -3.26 |
| 7,326.00 | 53.70 | 354.60 | 7,111.79 | -548.06 | 754.17 | -545.03 | 10.34 | 10.32 | 0.95 |
| 7,421.00 | 61.50 | 358.90 | 7,162.67 | -468.06 | 749.75 | -465.05 | 9.05 | 8.21 | 4.53 |
| 7,517.00 | 69.30 | 358.80 | 7,202.61 | -380.86 | 748.00 | -377.85 | 8.13 | 8.13 | -0.10 |
| 7,612.00 | 77.50 | 0.60 | 7,229.73 | -289.90 | 747.55 | -286.90 | 8.82 | 8.63 | 1.89 |
| 7,707.00 | 82.80 | 2.60 | 7,245.97 | -196.38 | 750.18 | -193.36 | 5.95 | 5.58 | 2.11 |
| 7,802.00 | 87.00 | 3.90 | 7,254.42 | -101.93 | 755.55 | -98.89 | 4.63 | 4.42 | 1.37 |
| 7,898.00 | 88.00 | 3.90 | 7,258.60 | -6.24 | 762.07 | -3.18 | 1.04 | 1.04 | 0.00 |
| 7,993.00 | 89.30 | 4.00 | 7,260.84 | 88.50 | 768.61 | 91.59 | 1.37 | 1.37 | 0.11 |
| 8,088.00 | 90.60 | 3.70 | 7,260.93 | 183.29 | 774.99 | 186.40 | 1.40 | 1.37 | -0.32 |
| 8,183.00 | 89.40 | 2.20 | 7,260.93 | 278.16 | 779.88 | 281.28 | 2.02 | -1.26 | -1.58 |
| 8,278.00 | 90.40 | 1.30 | 7,261.09 | 373.11 | 782.78 | 376.25 | 1.42 | 1.05 | -0.95 |
| 8,373.00 | 91.60 | 0.50 | 7,259.43 | 468.08 | 784.27 | 471.23 | 1.52 | 1.26 | -0.84 |
| 8,469.00 | 90.70 | 1.30 | 7,257.51 | 564.05 | 785.78 | 567.20 | 1.25 | -0.94 | 0.83 |
| 8,564.00 | 89.90 | 0.90 | 7,257.01 | 659.03 | 787.60 | 662.18 | 0.94 | -0.84 | -0.42 |
| 8,659.00 | 91.30 | 1.20 | 7,256.01 | 754.00 | 789.34 | 757.17 | 1.51 | 1.47 | 0.32 |
| 8,754.00 | 89.40 | 359.50 | 7,255.43 | 848.99 | 789.92 | 852.16 | 2.68 | -2.00 | -1.79 |
| 8,849.00 | 90.80 | 359.60 | 7,255.27 | 943.99 | 789.18 | 947.15 | 1.48 | 1.47 | 0.11 |
| 8,944.00 | 88.00 | 359.20 | 7,256.26 | 1,038.97 | 788.18 | 1,042.12 | 2.98 | -2.95 | -0.42 |
| 9,039.00 | 89.20 | 359.10 | 7,258.58 | 1,133.93 | 786.78 | 1,137.08 | 1.27 | 1.26 | -0.11 |
| 9,134.00 | 91.40 | 0.40 | 7,258.09 | 1,228.92 | 786.36 | 1,232.06 | 2.69 | 2.32 | 1.37 |
| 9,229.00 | 89.40 | 359.40 | 7,257.42 | 1,323.91 | 786.19 | 1,327.05 | 2.35 | -2.11 | -1.05 |
| 9,323.00 | 90.80 | 359.40 | 7,257.26 | 1,417.90 | 785.21 | 1,421.04 | 1.49 | 1.49 | 0.00 |
| 9,418.00 | 89.80 | 358.00 | 7,256.76 | 1,512.87 | 783.06 | 1,516.00 | 1.81 | -1.05 | -1.47 |
| 9,512.00 | 91.10 | 357.70 | 7,256.02 | 1,606.80 | 779.53 | 1,609.92 | 1.42 | 1.38 | -0.32 |
| 9,607.00 | 89.50 | 359.10 | 7,255.53 | 1,701.76 | 776.88 | 1,704.86 | 2.24 | -1.68 | 1.47 |
| 9,702.00 | 90.80 | 359.60 | 7,255.28 | 1,796.75 | 775.80 | 1,799.85 | 1.47 | 1.37 | 0.53 |
| 9,797.00 | 88.70 | 0.50 | 7,255.69 | 1,891.74 | 775.88 | 1,894.84 | 2.40 | -2.21 | 0.95 |
| 9,893.00 | 89.60 | 0.70 | 7,257.12 | 1,987.72 | 776.89 | 1,990.83 | 0.96 | 0.94 | 0.21 |
| 9,988.00 | 90.10 | 359.70 | 7,257.36 | 2,082.72 | 777.22 | 2,085.82 | 1.18 | 0.53 | -1.05 |
| 10,083.00 | 91.30 | 359.90 | 7,256.20 | 2,177.71 | 776.89 | 2,180.81 | 1.28 | 1.26 | 0.21 |
| 10,178.00 | 89.10 | 359.90 | 7,255.87 | 2,272.71 | 776.72 | 2,275.81 | 2.32 | -2.32 | 0.00 |
| 10,273.00 | 90.10 | 359.80 | 7,256.54 | 2,367.70 | 776.47 | 2,370.80 | 1.06 | 1.05 | -0.11 |
| 10,368.00 | 91.20 | 359.50 | 7,255.46 | 2,462.69 | 775.89 | 2,465.79 | 1.20 | 1.16 | -0.32 |
| 10,463.00 | 90.40 | 359.90 | 7,254.13 | 2,557.68 | 775.39 | 2,560.77 | 0.94 | -0.84 | 0.42 |
| 10,555.00 | 90.20 | 0.20 | 7,253.65 | 2,649.68 | 775.48 | 2,652.77 | 0.39 | -0.22 | 0.33 |
| 10,650.00 | 91.10 | 0.00 | 7,252.57 | 2,744.67 | 775.64 | 2,747.76 | 0.97 | 0.95 | -0.21 |
| 10,744.00 | 90.50 | 1.50 | 7,251.26 | 2,838.65 | 776.87 | 2,841.75 | 1.72 | -0.64 | 1.60 |
| 10,840.00 | 91.00 | 2.50 | 7,250.00 | 2,934.58 | 780.22 | 2,937.69 | 1.16 | 0.52 | 1.04 |
| 10,935.00 | 90.40 | 3.10 | 7,248.84 | 3,029.46 | 784.86 | 3,032.59 | 0.89 | -0.63 | 0.63 |
| 11,030.00 | 91.00 | 2.40 | 7,247.68 | 3,124.34 | 789.42 | 3,127.49 | 0.97 | 0.63 | -0.74 |
| 11,125.00 | 86.50 | 0.40 | 7,249.75 | 3,219.26 | 791.74 | 3,222.42 | 5.18 | -4.74 | -2.11 |
| 11,220.00 | 85.10 | 0.40 | 7,256.71 | 3,314.00 | 792.40 | 3,317.16 | 1.47 | -1.47 | 0.00 |

PDD

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| 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) |
| 11,315.00 | 86.80 | 0.70 | 7,263.42 | 3,408.76 | 793.31 | 3,411.92 | 1.82 | 1.79 | 0.32 |
| 11,410.00 | 88.30 | 0.90 | 7,267.48 | 3,503.66 | 794.64 | 3,506.82 | 1.59 | 1.58 | 0.21 |
| 11,505.00 | 89.50 | 0.90 | 7,269.31 | 3,598.63 | 796.13 | 3,601.80 | 1.26 | 1.26 | 0.00 |
| 11,600.00 | 91.20 | 1.30 | 7,268.73 | 3,693.61 | 797.95 | 3,696.78 | 1.84 | 1.79 | 0.42 |
| 11,695.00 | 90.30 | 1.40 | 7,267.48 | 3,788.57 | 800.19 | 3,791.75 | 0.95 | -0.95 | 0.11 |
| 11,790.00 | 91.20 | 1.00 | 7,266.24 | 3,883.54 | 802.18 | 3,886.73 | 1.04 | 0.95 | -0.42 |
| 11,884.00 | 92.50 | 1.00 | 7,263.20 | 3,977.48 | 803.82 | 3,980.67 | 1.38 | 1.38 | 0.00 |
| 11,979.00 | 91.20 | 0.60 | 7,260.14 | 4,072.41 | 805.15 | 4,075.61 | 1.43 | -1.37 | -0.42 |
| 12,075.00 | 88.90 | 1.60 | 7,260.05 | 4,168.39 | 806.99 | 4,171.60 | 2.61 | -2.40 | 1.04 |
| 12,170.00 | 89.80 | 1.10 | 7,261.13 | 4,263.36 | 809.23 | 4,266.57 | 1.08 | 0.95 | -0.53 |
| 12,265.00 | 90.50 | 0.20 | 7,260.88 | 4,358.35 | 810.30 | 4,361.57 | 1.20 | 0.74 | -0.95 |
| 12,359.00 | 91.50 | 0.40 | 7,259.24 | 4,452.33 | 810.80 | 4,455.55 | 1.08 | 1.06 | 0.21 |
| 12,455.00 | 91.70 | 359.60 | 7,256.56 | 4,548.29 | 810.80 | 4,551.51 | 0.86 | 0.21 | -0.83 |
| 12,550.00 | 90.90 | 358.30 | 7,254.41 | 4,643.25 | 809.06 | 4,646.46 | 1.61 | -0.84 | -1.37 |
| 12,645.00 | 89.30 | 358.90 | 7,254.24 | 4,738.22 | 806.73 | 4,741.42 | 1.80 | -1.68 | 0.63 |
| 12,739.00 | 90.10 | 358.50 | 7,254.73 | 4,832.19 | 804.60 | 4,835.38 | 0.95 | 0.85 | -0.43 |
| 12,834.00 | 91.60 | 359.10 | 7,253.32 | 4,927.16 | 802.61 | 4,930.34 | 1.70 | 1.58 | 0.63 |
| 12,929.00 | 89.80 | 357.90 | 7,252.16 | 5,022.11 | 800.13 | 5,025.28 | 2.28 | -1.89 | -1.26 |
| 13,024.00 | 91.10 | 357.90 | 7,251.42 | 5,117.04 | 796.64 | 5,120.20 | 1.37 | 1.37 | 0.00 |
| 13,119.00 | 89.30 | 358.40 | 7,251.08 | 5,211.99 | 793.58 | 5,215.13 | 1.97 | -1.89 | 0.53 |
| 13,214.00 | 89.60 | 357.80 | 7,252.00 | 5,306.93 | 790.43 | 5,310.06 | 0.71 | 0.32 | -0.63 |
| 13,310.00 | 89.50 | 356.90 | 7,252.75 | 5,402.82 | 785.99 | 5,405.94 | 0.94 | -0.10 | -0.94 |
| 13,405.00 | 90.30 | 356.40 | 7,252.92 | 5,497.66 | 780.44 | 5,500.75 | 0.99 | 0.84 | -0.53 |
| 13,499.00 | 90.50 | 356.90 | 7,252.26 | 5,591.50 | 774.95 | 5,594.56 | 0.57 | 0.21 | 0.53 |
| 13,591.00 | 91.10 | 358.10 | 7,250.98 | 5,683.40 | 770.93 | 5,686.45 | 1.46 | 0.65 | 1.30 |
| 13,687.00 | 91.20 | 359.90 | 7,249.05 | 5,779.36 | 769.26 | 5,782.40 | 1.88 | 0.10 | 1.88 |
| 13,782.00 | 92.90 | 0.30 | 7,245.65 | 5,874.30 | 769.42 | 5,877.34 | 1.84 | 1.79 | 0.42 |
| 13,876.00 | 90.40 | 1.70 | 7,242.94 | 5,968.23 | 771.06 | 5,971.28 | 3.05 | -2.66 | 1.49 |
| 13,970.00 | 92.20 | 2.70 | 7,240.81 | 6,062.13 | 774.67 | 6,065.20 | 2.19 | 1.91 | 1.06 |
| 14,062.00 | 89.70 | 2.70 | 7,239.29 | 6,154.01 | 779.00 | 6,157.09 | 2.72 | -2.72 | 0.00 |
| 14,155.00 | 88.30 | 1.90 | 7,240.91 | 6,246.92 | 782.74 | 6,250.01 | 1.73 | -1.51 | -0.86 |
| 14,247.00 | 89.20 | 1.80 | 7,242.92 | 6,338.85 | 785.71 | 6,341.95 | 0.98 | 0.98 | -0.11 |
| 14,341.00 | 90.50 | 2.40 | 7,243.16 | 6,432.78 | 789.15 | 6,435.90 | 1.52 | 1.38 | 0.64 |
| 14,435.00 | 87.40 | 1.60 | 7,244.88 | 6,526.70 | 792.43 | 6,529.83 | 3.41 | -3.30 | -0.85 |
| 14,530.00 | 88.00 | 1.00 | 7,248.70 | 6,621.60 | 794.58 | 6,624.73 | 0.89 | 0.63 | -0.63 |
| 14,622.00 | 89.10 | 1.30 | 7,251.02 | 6,713.55 | 796.43 | 6,716.69 | 1.24 | 1.20 | 0.33 |
| 14,715.00 | 90.10 | 0.80 | 7,251.67 | 6,806.53 | 798.13 | 6,809.68 | 1.20 | 1.08 | -0.54 |
| 14,807.00 | 91.10 | 0.80 | 7,250.71 | 6,898.51 | 799.42 | 6,901.67 | 1.09 | 1.09 | 0.00 |
| 14,900.00 | 88.90 | 0.30 | 7,250.71 | 6,991.50 | 800.31 | 6,994.66 | 2.43 | -2.37 | -0.54 |
| 14,992.00 | 90.10 | 0.40 | 7,251.51 | 7,083.50 | 800.87 | 7,086.65 | 1.31 | 1.30 | 0.11 |
| 15,085.00 | 91.00 | 359.90 | 7,250.62 | 7,176.49 | 801.12 | 7,179.65 | 1.11 | 0.97 | -0.54 |
| 15,177.00 | 90.60 | 359.30 | 7,249.34 | 7,268.48 | 800.47 | 7,271.63 | 0.78 | -0.43 | -0.65 |
| 15,271.00 | 88.20 | 359.00 | 7,250.32 | 7,362.46 | 799.08 | 7,365.60 | 2.57 | -2.55 | -0.32 |
| 15,363.00 | 88.90 | 358.20 | 7,252.65 | 7,454.40 | 796.83 | 7,457.54 | 1.16 | 0.76 | -0.87 |

PDD Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| 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) |
| 15,414.00 | 89.40 | 358.40 | 7,253.41 | 7,505.37 | 795.32 | 7,508.50 | 1.06 | 0.98 | 0.39 |
| 15,481.00 | 89.40 | 358.40 | 7,254.11 | 7,572.34 | 793.45 | 7,575.46 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Meguire 29C-16HZ Ente - actual wellpath hits target center - Point | 0.00 | 0.00 | 3,220.89 | -458.08 | 481.35 | 14,571,871.74 | 1,731,172.65 | 40.123502 | -104.675345 |
| Meguire 29C-16HZ Codi - actual wellpath hits target center - Point | 0.00 | 0.00 | 7,250.75 | -152.69 | 752.39 | 14,572,178.11 | 1,731,442.58 | 40.124341 | -104.674376 |
| Meguire 29C-16HZ Actu - actual wellpath hits target center - Point | 0.00 | 0.00 | 7,254.11 | 7,572.34 | 793.45 | 14,579,903.24 | 1,731,455.57 | 40.145554 | -104.674228 |
| Meguire 29C-16HZ Actu - actual wellpath hits target center - Point | 0.00 | 0.00 | 7,257.52 | -35.15 | 760.10 | 14,572,295.68 | 1,731,449.86 | 40.124664 | -104.674348 |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,859.00 | 1,834.76 | 9 5/8" | 9-5/8 | 13-1/2 | |
| 15,474.00 | 7,254.03 | 5 1/2" | 5-1/2 | 8-1/2 | |

| Formations | | | | | | |
|-----------------------|-----------------------|-----------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,304.00 | 3,220.89 | Entered Landbox | | 0.00 | | |
| 7,052.00 | 6,901.95 | Sharon Springs | | 0.00 | | |
| 7,116.00 | 6,958.37 | Niobrara | | 0.00 | | |
| 7,187.00 | 7,016.34 | Niobrara B | | 0.00 | | |
| 7,292.00 | 7,090.84 | Niobrara C | | 0.00 | | |
| 7,614.00 | 7,230.16 | Fort Hays | | 0.00 | | |
| 7,751.00 | 7,250.75 | Codell | | 0.00 | | |
| 15,481.00 | 7,254.11 | Toe Depth | | 0.00 | | |
| 7,869.00 | 7,257.52 | Landing Depth | | 0.00 | | |

PDD
Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well Meguire 29C-16HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Site: | 2N-65W-21 Meguire 5-1HZ Pad | MD Reference: | 4896'GL + 20'KB @ 4916.00usft (P462) |
| Well: | Meguire 29C-16HZ | North Reference: | True |
| Wellbore: | Meguire 29C-16HZ | Survey Calculation Method: | Minimum Curvature |
| Design: | PDD Actual Surveys | Database: | EDM 5000.1 Single User Db |

| Design Annotations | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 15,481.00 | 7,254.11 | 7,572.34 | 793.45 | Projection to Bit | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|