



US ROCKIES WATTENBERG PLANNING

Project: WELD-NAD83-UTMFT13N

Site: Powers 1-27HZ Pad

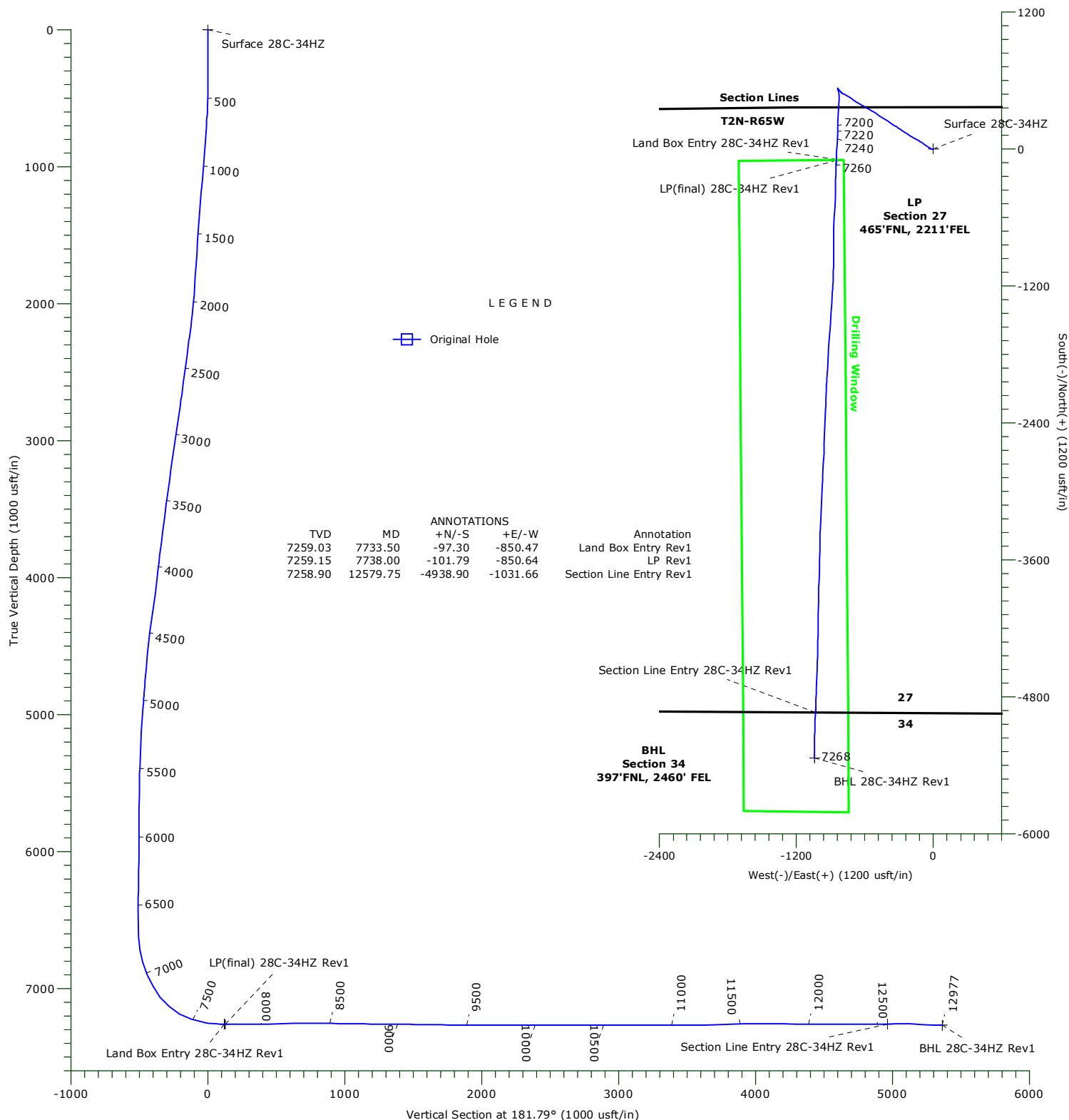
Well: #28C-34HZ

Wellbore: Original Hole

Design: Original Hole



Precision
Directional Services



WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|----------------------------------|---------|----------|----------|-------------|------------|-------------|--------------|-------|
| Surface 28C-34HZ | 0.00 | 0.00 | 0.00 | 14569115.93 | 1739507.84 | 40.115847°N | 104.645568°W | Point |
| Land Box Entry 28C-34HZ Rev1 | 7258.95 | -94.55 | -850.36 | 14569017.99 | 1738657.86 | 40.115587°N | 104.648610°W | Point |
| Section Line Entry 28C-34HZ Rev1 | 7258.96 | -4935.66 | -1031.51 | 14564176.21 | 1738496.01 | 40.102293°N | 104.649257°W | Point |
| LP(final) 28C-34HZ Rev1 | 7259.15 | -101.79 | -850.64 | 14569010.75 | 1738657.61 | 40.115567°N | 104.648611°W | Point |
| BHL 28C-34HZ Rev1 | 7267.64 | -5335.77 | -1039.12 | 14563776.07 | 1738489.99 | 40.101194°N | 104.649284°W | Point |

Precision Drilling Corporation

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well #28C-34HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Site: | Powers 1-27HZ Pad | MD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Well: | #28C-34HZ | North Reference: | True |
| Wellbore: | Original Hole | Survey Calculation Method: | Minimum Curvature |
| Design: | Original Hole | Database: | Compass_US |

| | | | |
|--------------------|--|----------------------|----------------|
| 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 | Powers 1-27HZ Pad | | | | |
| Site Position: | | Northing: | 14,569,115.93 usft | Latitude: | 40.115847°N |
| From: | Lat/Long | Easting: | 1,739,507.83 usft | Longitude: | 104.645568°W |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | 0.23 ° |

| | | | | | | |
|----------------------|-----------|-----------|---------------------|--------------------|---------------|---------------|
| Well | #28C-34HZ | | | | | |
| Well Position | +N-S | 0.00 usft | Northing: | 14,569,115.93 usft | Latitude: | 40.115847°N |
| | +E-W | 0.00 usft | Easting: | 1,739,507.83 usft | Longitude: | 104.645568°W |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 4,926.00 usft |

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|-----------------|---------------|--|--|--|--|
| Wellbore | Original Hole | | | | |
|-----------------|---------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF2010 | 09/01/15 | 8.21 | 66.69 | 52,550 |

| | | | | | |
|---------------|---------------|--|--|--|--|
| Design | Original Hole | | | | |
|---------------|---------------|--|--|--|--|

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|---------------------|-----|---------------|--------|----------------------|------|
| 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 | 181.79 |

| Survey Program | | Date | 11/05/15 | |
|----------------|--------------|---------------------------|--|-------------|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 14.00 | 1,814.00 | Survey #1 (Original Hole) | APC_ISCWSA REV 2 MV Fixed:v2:standard declination | |
| 1,951.00 | 12,912.00 | Survey #4 (Original Hole) | APC_ISCWSA REV 2 MV Fixed:v2:crustal field declination | |
| 12,977.00 | 12,977.00 | Survey #5 (Original Hole) | APC_BLIND | OWSG BLIND |

| 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 |
| Surface 28C-34HZ | | | | | | | | | | |
| | 14.00 | 0.00 | 0.00 | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 99.00 | 1.08 | 177.59 | 98.99 | -0.80 | 0.03 | 0.80 | 1.27 | 1.27 | 0.00 |
| | 189.00 | 0.96 | 215.27 | 188.98 | -2.26 | -0.37 | 2.27 | 0.74 | -0.13 | 41.87 |
| | 280.00 | 1.87 | 262.85 | 279.96 | -3.07 | -2.28 | 3.14 | 1.55 | 1.00 | 52.29 |
| | 386.00 | 3.13 | 281.04 | 385.85 | -2.73 | -6.84 | 2.94 | 1.39 | 1.19 | 17.16 |
| | 477.00 | 4.24 | 295.27 | 476.67 | -0.82 | -12.32 | 1.20 | 1.57 | 1.22 | 15.64 |
| | 566.00 | 5.57 | 297.89 | 565.34 | 2.61 | -19.11 | -2.01 | 1.52 | 1.49 | 2.94 |

Precision Drilling Corporation

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well #28C-34HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Site: | Powers 1-27HZ Pad | MD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Well: | #28C-34HZ | North Reference: | True |
| Wellbore: | Original Hole | Survey Calculation Method: | Minimum Curvature |
| Design: | Original Hole | Database: | Compass_US |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 656.00 | 6.58 | 299.62 | 654.83 | 7.20 | -27.45 | -6.34 | 1.14 | 1.12 | 1.92 |
| 746.00 | 8.06 | 298.69 | 744.10 | 12.78 | -37.47 | -11.60 | 1.65 | 1.64 | -1.03 |
| 837.00 | 8.93 | 301.53 | 834.10 | 19.53 | -49.09 | -17.99 | 1.06 | 0.96 | 3.12 |
| 927.00 | 8.85 | 304.63 | 923.02 | 27.12 | -60.74 | -25.21 | 0.54 | -0.09 | 3.44 |
| 1,017.00 | 8.83 | 303.56 | 1,011.95 | 34.87 | -72.19 | -32.60 | 0.18 | -0.02 | -1.19 |
| 1,107.00 | 8.81 | 303.77 | 1,100.88 | 42.52 | -83.68 | -39.89 | 0.04 | -0.02 | 0.23 |
| 1,197.00 | 8.47 | 305.68 | 1,189.86 | 50.22 | -94.79 | -47.23 | 0.49 | -0.38 | 2.12 |
| 1,287.00 | 8.47 | 304.46 | 1,278.88 | 57.83 | -105.64 | -54.51 | 0.20 | 0.00 | -1.36 |
| 1,377.00 | 8.49 | 303.33 | 1,367.90 | 65.24 | -116.66 | -61.56 | 0.19 | 0.02 | -1.26 |
| 1,467.00 | 7.91 | 302.00 | 1,456.98 | 72.17 | -127.46 | -68.15 | 0.68 | -0.64 | -1.48 |
| 1,557.00 | 8.19 | 298.29 | 1,546.09 | 78.49 | -138.35 | -74.13 | 0.66 | 0.31 | -4.12 |
| 1,647.00 | 8.06 | 299.08 | 1,635.19 | 84.59 | -149.51 | -79.88 | 0.19 | -0.14 | 0.88 |
| 1,737.00 | 8.57 | 297.67 | 1,724.24 | 90.77 | -160.97 | -85.70 | 0.61 | 0.57 | -1.57 |
| 1,814.00 | 8.76 | 298.48 | 1,800.36 | 96.23 | -171.20 | -90.84 | 0.29 | 0.25 | 1.05 |
| 1,951.00 | 8.35 | 298.03 | 1,935.84 | 105.88 | -189.15 | -99.92 | 0.30 | -0.30 | -0.33 |
| 2,045.00 | 10.64 | 302.60 | 2,028.54 | 113.77 | -202.49 | -107.39 | 2.56 | 2.44 | 4.86 |
| 2,137.00 | 11.78 | 306.47 | 2,118.79 | 123.92 | -217.20 | -117.08 | 1.48 | 1.24 | 4.21 |
| 2,231.00 | 13.10 | 303.48 | 2,210.58 | 135.51 | -233.80 | -128.14 | 1.56 | 1.40 | -3.18 |
| 2,324.00 | 15.39 | 304.54 | 2,300.72 | 148.32 | -252.76 | -140.35 | 2.48 | 2.46 | 1.14 |
| 2,417.00 | 14.68 | 301.37 | 2,390.53 | 161.45 | -272.99 | -152.84 | 1.17 | -0.76 | -3.41 |
| 2,513.00 | 14.16 | 301.72 | 2,483.51 | 173.96 | -293.36 | -164.71 | 0.55 | -0.54 | 0.36 |
| 2,606.00 | 14.68 | 306.30 | 2,573.58 | 186.91 | -312.53 | -177.06 | 1.35 | 0.56 | 4.92 |
| 2,700.00 | 14.16 | 301.37 | 2,664.62 | 199.95 | -331.95 | -189.48 | 1.42 | -0.55 | -5.24 |
| 2,793.00 | 16.53 | 303.66 | 2,754.30 | 213.21 | -352.68 | -202.09 | 2.63 | 2.55 | 2.46 |
| 2,885.00 | 16.27 | 302.78 | 2,842.56 | 227.44 | -374.41 | -215.63 | 0.39 | -0.28 | -0.96 |
| 2,980.00 | 15.83 | 303.48 | 2,933.86 | 241.79 | -396.40 | -229.29 | 0.51 | -0.46 | 0.74 |
| 3,072.00 | 15.39 | 303.48 | 3,022.46 | 255.45 | -417.05 | -242.30 | 0.48 | -0.48 | 0.00 |
| 3,165.00 | 14.77 | 302.78 | 3,112.26 | 268.67 | -437.31 | -254.88 | 0.69 | -0.67 | -0.75 |
| 3,257.00 | 14.42 | 302.43 | 3,201.29 | 281.17 | -456.84 | -266.76 | 0.39 | -0.38 | -0.38 |
| 3,351.00 | 13.81 | 301.55 | 3,292.45 | 293.31 | -476.28 | -278.29 | 0.69 | -0.65 | -0.94 |
| 3,445.00 | 14.60 | 306.12 | 3,383.58 | 306.17 | -495.41 | -290.54 | 1.46 | 0.84 | 4.86 |
| 3,540.00 | 13.89 | 303.66 | 3,475.66 | 319.55 | -514.58 | -303.32 | 0.98 | -0.75 | -2.59 |
| 3,634.00 | 15.74 | 298.91 | 3,566.53 | 331.97 | -535.13 | -315.09 | 2.35 | 1.97 | -5.05 |
| 3,729.00 | 14.95 | 296.45 | 3,658.15 | 343.65 | -557.38 | -326.07 | 1.08 | -0.83 | -2.59 |
| 3,823.00 | 15.30 | 303.83 | 3,748.90 | 355.96 | -578.54 | -337.71 | 2.08 | 0.37 | 7.85 |
| 3,917.00 | 14.60 | 302.25 | 3,839.72 | 369.19 | -598.86 | -350.30 | 0.86 | -0.74 | -1.68 |
| 4,010.00 | 13.10 | 298.56 | 3,930.01 | 380.48 | -618.04 | -360.99 | 1.87 | -1.61 | -3.97 |
| 4,105.00 | 15.30 | 299.26 | 4,022.10 | 391.75 | -638.43 | -371.62 | 2.32 | 2.32 | 0.74 |
| 4,199.00 | 15.56 | 297.86 | 4,112.72 | 403.71 | -660.39 | -382.88 | 0.48 | 0.28 | -1.49 |
| 4,294.00 | 15.83 | 305.59 | 4,204.18 | 417.21 | -682.20 | -395.69 | 2.22 | 0.28 | 8.14 |
| 4,388.00 | 14.42 | 305.24 | 4,294.93 | 431.42 | -702.19 | -409.28 | 1.50 | -1.50 | -0.37 |
| 4,483.00 | 12.93 | 304.01 | 4,387.23 | 444.19 | -720.66 | -421.46 | 1.60 | -1.57 | -1.29 |
| 4,576.00 | 12.31 | 301.20 | 4,477.98 | 455.15 | -737.76 | -431.88 | 0.94 | -0.67 | -3.02 |

Precision Drilling Corporation

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
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| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Site: | Powers 1-27HZ Pad | MD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Well: | #28C-34HZ | North Reference: | True |
| Wellbore: | Original Hole | Survey Calculation Method: | Minimum Curvature |
| Design: | Original Hole | Database: | Compass_US |

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) |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,669.00 | 11.78 | 299.62 | 4,568.94 | 464.98 | -754.50 | -441.18 | 0.67 | -0.57 | -1.70 |
| 4,764.00 | 11.17 | 298.91 | 4,662.04 | 474.22 | -770.98 | -449.90 | 0.66 | -0.64 | -0.75 |
| 4,856.00 | 10.38 | 297.68 | 4,752.41 | 482.37 | -786.12 | -457.58 | 0.89 | -0.86 | -1.34 |
| 4,949.00 | 8.27 | 296.45 | 4,844.18 | 489.25 | -799.53 | -464.03 | 2.28 | -2.27 | -1.32 |
| 5,042.00 | 6.42 | 325.63 | 4,936.44 | 496.52 | -808.46 | -471.03 | 4.41 | -1.99 | 31.38 |
| 5,135.00 | 5.10 | 322.64 | 5,028.97 | 504.10 | -813.90 | -478.43 | 1.46 | -1.42 | -3.22 |
| 5,227.00 | 4.40 | 319.65 | 5,120.66 | 510.04 | -818.67 | -484.22 | 0.81 | -0.76 | -3.25 |
| 5,320.00 | 3.69 | 313.85 | 5,213.43 | 514.83 | -823.14 | -488.87 | 0.88 | -0.76 | -6.24 |
| 5,412.00 | 3.52 | 309.46 | 5,305.24 | 518.68 | -827.45 | -492.58 | 0.35 | -0.18 | -4.77 |
| 5,504.00 | 2.90 | 307.35 | 5,397.10 | 521.88 | -831.48 | -495.66 | 0.69 | -0.67 | -2.29 |
| 5,598.00 | 0.97 | 19.77 | 5,491.05 | 524.07 | -833.10 | -497.80 | 2.94 | -2.05 | 77.04 |
| 5,690.00 | 0.79 | 355.87 | 5,583.04 | 525.44 | -832.89 | -499.17 | 0.44 | -0.20 | -25.98 |
| 5,785.00 | 0.44 | 316.84 | 5,678.03 | 526.36 | -833.18 | -500.08 | 0.55 | -0.37 | -41.08 |
| 5,972.00 | 0.44 | 337.06 | 5,865.03 | 527.54 | -833.95 | -501.24 | 0.08 | 0.00 | 10.81 |
| 6,066.00 | 0.97 | 305.94 | 5,959.02 | 528.34 | -834.74 | -502.01 | 0.68 | 0.56 | -33.11 |
| 6,161.00 | 0.53 | 332.66 | 6,054.01 | 529.21 | -835.59 | -502.85 | 0.58 | -0.46 | 28.13 |
| 6,255.00 | 0.79 | 341.80 | 6,148.01 | 530.21 | -835.99 | -503.84 | 0.30 | 0.28 | 9.72 |
| 6,349.00 | 0.62 | 355.16 | 6,242.00 | 531.33 | -836.24 | -504.95 | 0.25 | -0.18 | 14.21 |
| 6,444.00 | 1.67 | 304.01 | 6,336.98 | 532.62 | -837.43 | -506.20 | 1.44 | 1.11 | -53.84 |
| 6,539.00 | 0.09 | 235.46 | 6,431.97 | 533.35 | -838.64 | -506.89 | 1.73 | -1.66 | -72.16 |
| 6,728.00 | 1.76 | 158.99 | 6,620.94 | 530.55 | -837.72 | -504.13 | 0.92 | 0.88 | -40.46 |
| 6,823.00 | 10.20 | 166.20 | 6,715.34 | 521.01 | -835.19 | -494.66 | 8.90 | 8.88 | 7.59 |
| 6,918.00 | 16.36 | 164.44 | 6,807.75 | 499.93 | -829.59 | -473.77 | 6.50 | 6.48 | -1.85 |
| 7,014.00 | 22.86 | 176.57 | 6,898.17 | 468.24 | -824.84 | -442.25 | 7.96 | 6.77 | 12.64 |
| 7,109.00 | 30.16 | 182.19 | 6,983.14 | 425.91 | -824.64 | -399.95 | 8.12 | 7.68 | 5.92 |
| 7,204.00 | 38.95 | 184.65 | 7,061.31 | 372.19 | -827.98 | -346.15 | 9.37 | 9.25 | 2.59 |
| 7,298.00 | 48.54 | 182.55 | 7,129.14 | 307.40 | -831.96 | -281.27 | 10.32 | 10.20 | -2.23 |
| 7,392.00 | 59.62 | 181.49 | 7,184.20 | 231.44 | -834.59 | -205.26 | 11.82 | 11.79 | -1.13 |
| 7,486.00 | 71.49 | 182.19 | 7,223.03 | 146.07 | -837.35 | -119.84 | 12.65 | 12.63 | 0.74 |
| 7,580.00 | 79.49 | 183.07 | 7,246.56 | 55.24 | -841.54 | -28.93 | 8.56 | 8.51 | 0.94 |
| 7,673.00 | 87.67 | 183.95 | 7,256.95 | -36.93 | -847.20 | 63.37 | 8.85 | 8.80 | 0.95 |
| 7,730.75 | 88.37 | 182.33 | 7,258.95 | -94.55 | -850.36 | 121.07 | 3.06 | 1.21 | -2.81 |
| Land Box Entry 28C-34HZ Rev1 | | | | | | | | | |
| 7,738.00 | 88.46 | 182.12 | 7,259.15 | -101.79 | -850.64 | 128.32 | 3.06 | 1.21 | -2.81 |
| LP(final) 28C-34HZ Rev1 | | | | | | | | | |
| 7,767.00 | 88.81 | 181.31 | 7,259.84 | -130.77 | -851.51 | 157.31 | 3.06 | 1.21 | -2.81 |
| 7,861.00 | 90.57 | 181.31 | 7,260.35 | -224.74 | -853.66 | 251.30 | 1.87 | 1.87 | 0.00 |
| 7,956.00 | 90.57 | 180.26 | 7,259.40 | -319.73 | -854.96 | 346.28 | 1.11 | 0.00 | -1.11 |
| 8,050.00 | 91.01 | 182.90 | 7,258.11 | -413.67 | -857.55 | 440.26 | 2.85 | 0.47 | 2.81 |
| 8,143.00 | 92.51 | 183.07 | 7,255.25 | -506.50 | -862.39 | 533.19 | 1.62 | 1.61 | 0.18 |
| 8,236.00 | 91.63 | 182.37 | 7,251.89 | -599.33 | -866.80 | 626.12 | 1.21 | -0.95 | -0.75 |
| 8,332.00 | 89.34 | 182.02 | 7,251.08 | -695.25 | -870.47 | 722.11 | 2.41 | -2.39 | -0.36 |
| 8,425.00 | 89.78 | 180.26 | 7,251.79 | -788.23 | -872.33 | 815.09 | 1.95 | 0.47 | -1.89 |
| 8,519.00 | 88.20 | 180.44 | 7,253.45 | -882.21 | -872.90 | 909.05 | 1.69 | -1.68 | 0.19 |

Precision Drilling Corporation

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well #28C-34HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Site: | Powers 1-27HZ Pad | MD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Well: | #28C-34HZ | North Reference: | True |
| Wellbore: | Original Hole | Survey Calculation Method: | Minimum Curvature |
| Design: | Original Hole | Database: | Compass_US |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,612.00 | 89.60 | 180.26 | 7,255.24 | -975.19 | -873.47 | 1,002.00 | 1.52 | 1.51 | -0.19 |
| 8,706.00 | 88.37 | 181.84 | 7,256.90 | -1,069.15 | -875.19 | 1,095.97 | 2.13 | -1.31 | 1.68 |
| 8,800.00 | 89.87 | 182.02 | 7,258.34 | -1,163.09 | -878.35 | 1,189.96 | 1.61 | 1.60 | 0.19 |
| 8,893.00 | 89.16 | 183.95 | 7,259.13 | -1,255.95 | -883.20 | 1,282.93 | 2.21 | -0.76 | 2.08 |
| 8,988.00 | 90.48 | 183.60 | 7,259.43 | -1,350.74 | -889.45 | 1,377.87 | 1.44 | 1.39 | -0.37 |
| 9,084.00 | 87.93 | 183.60 | 7,260.76 | -1,446.54 | -895.48 | 1,473.80 | 2.66 | -2.66 | 0.00 |
| 9,177.00 | 88.99 | 183.95 | 7,263.26 | -1,539.30 | -901.60 | 1,566.71 | 1.20 | 1.14 | 0.38 |
| 9,272.00 | 90.31 | 184.65 | 7,263.84 | -1,634.03 | -908.72 | 1,661.62 | 1.57 | 1.39 | 0.74 |
| 9,366.00 | 88.81 | 183.42 | 7,264.56 | -1,727.79 | -915.34 | 1,755.54 | 2.06 | -1.60 | -1.31 |
| 9,461.00 | 89.43 | 182.72 | 7,266.02 | -1,822.64 | -920.42 | 1,850.50 | 0.98 | 0.65 | -0.74 |
| 9,555.00 | 90.04 | 183.60 | 7,266.46 | -1,916.49 | -925.60 | 1,944.47 | 1.14 | 0.65 | 0.94 |
| 9,649.00 | 90.84 | 183.95 | 7,265.74 | -2,010.29 | -931.79 | 2,038.41 | 0.93 | 0.85 | 0.37 |
| 9,743.00 | 89.78 | 182.02 | 7,265.23 | -2,104.15 | -936.69 | 2,132.38 | 2.34 | -1.13 | -2.05 |
| 9,836.00 | 89.78 | 181.31 | 7,265.58 | -2,197.11 | -939.39 | 2,225.38 | 0.76 | 0.00 | -0.76 |
| 9,931.00 | 90.40 | 182.55 | 7,265.43 | -2,292.05 | -942.59 | 2,320.38 | 1.46 | 0.65 | 1.31 |
| 10,026.00 | 90.22 | 182.55 | 7,264.92 | -2,386.96 | -946.82 | 2,415.37 | 0.19 | -0.19 | 0.00 |
| 10,120.00 | 89.96 | 182.19 | 7,264.77 | -2,480.88 | -950.70 | 2,509.36 | 0.47 | -0.28 | -0.38 |
| 10,215.00 | 90.13 | 182.02 | 7,264.70 | -2,575.81 | -954.19 | 2,604.36 | 0.25 | 0.18 | -0.18 |
| 10,310.00 | 90.13 | 183.07 | 7,264.48 | -2,670.72 | -958.41 | 2,699.35 | 1.11 | 0.00 | 1.11 |
| 10,404.00 | 89.96 | 183.07 | 7,264.41 | -2,764.58 | -963.44 | 2,793.33 | 0.18 | -0.18 | 0.00 |
| 10,496.00 | 90.22 | 183.07 | 7,264.26 | -2,856.45 | -968.37 | 2,885.31 | 0.28 | 0.28 | 0.00 |
| 10,591.00 | 88.99 | 182.02 | 7,264.92 | -2,951.35 | -972.59 | 2,980.29 | 1.70 | -1.29 | -1.11 |
| 10,685.00 | 88.99 | 182.55 | 7,266.58 | -3,045.26 | -976.34 | 3,074.27 | 0.56 | 0.00 | 0.56 |
| 10,778.00 | 90.57 | 182.02 | 7,266.93 | -3,138.18 | -980.04 | 3,167.27 | 1.79 | 1.70 | -0.57 |
| 10,872.00 | 90.57 | 182.72 | 7,266.00 | -3,232.10 | -983.93 | 3,261.26 | 0.74 | 0.00 | 0.74 |
| 10,966.00 | 89.78 | 183.07 | 7,265.71 | -3,325.98 | -988.68 | 3,355.24 | 0.92 | -0.84 | 0.37 |
| 11,060.00 | 89.78 | 181.67 | 7,266.07 | -3,419.89 | -992.57 | 3,449.23 | 1.49 | 0.00 | -1.49 |
| 11,153.00 | 90.75 | 180.61 | 7,265.64 | -3,512.87 | -994.42 | 3,542.22 | 1.54 | 1.04 | -1.14 |
| 11,247.00 | 91.19 | 181.14 | 7,264.05 | -3,606.85 | -995.85 | 3,636.19 | 0.73 | 0.47 | 0.56 |
| 11,341.00 | 91.36 | 181.67 | 7,261.96 | -3,700.80 | -998.16 | 3,730.17 | 0.59 | 0.18 | 0.56 |
| 11,435.00 | 91.54 | 182.19 | 7,259.58 | -3,794.71 | -1,001.32 | 3,824.14 | 0.59 | 0.19 | 0.55 |
| 11,529.00 | 90.57 | 181.14 | 7,257.85 | -3,888.65 | -1,004.05 | 3,918.12 | 1.52 | -1.03 | -1.12 |
| 11,623.00 | 90.84 | 181.67 | 7,256.69 | -3,982.62 | -1,006.36 | 4,012.11 | 0.63 | 0.29 | 0.56 |
| 11,717.00 | 89.16 | 181.31 | 7,256.69 | -4,076.58 | -1,008.80 | 4,106.10 | 1.83 | -1.79 | -0.38 |
| 11,811.00 | 89.34 | 180.26 | 7,257.92 | -4,170.56 | -1,010.09 | 4,200.08 | 1.13 | 0.19 | -1.12 |
| 11,905.00 | 89.43 | 180.08 | 7,258.93 | -4,264.56 | -1,010.37 | 4,294.04 | 0.21 | 0.10 | -0.19 |
| 12,000.00 | 89.52 | 181.31 | 7,259.80 | -4,359.55 | -1,011.52 | 4,389.01 | 1.30 | 0.09 | 1.29 |
| 12,092.00 | 89.78 | 180.79 | 7,260.37 | -4,451.53 | -1,013.20 | 4,481.00 | 0.63 | 0.28 | -0.57 |
| 12,185.00 | 89.69 | 182.55 | 7,260.80 | -4,544.48 | -1,015.91 | 4,574.00 | 1.89 | -0.10 | 1.89 |
| 12,278.00 | 90.66 | 182.37 | 7,260.51 | -4,637.40 | -1,019.91 | 4,666.99 | 1.06 | 1.04 | -0.19 |
| 12,370.00 | 90.22 | 182.55 | 7,259.80 | -4,729.31 | -1,023.86 | 4,758.98 | 0.52 | -0.48 | 0.20 |
| 12,463.00 | 89.78 | 181.49 | 7,259.80 | -4,822.25 | -1,027.13 | 4,851.98 | 1.23 | -0.47 | -1.14 |
| 12,555.00 | 90.84 | 182.72 | 7,259.31 | -4,914.18 | -1,030.51 | 4,943.97 | 1.76 | 1.15 | 1.34 |

Precision Drilling Corporation

Survey Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Company: | US ROCKIES WATTENBERG PLANNING | Local Co-ordinate Reference: | Well #28C-34HZ |
| Project: | WELD-NAD83-UTMFT13N | TVD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Site: | Powers 1-27HZ Pad | MD Reference: | 4926'GL+20'KB @ 4946.00usft (PD460) |
| Well: | #28C-34HZ | North Reference: | True |
| Wellbore: | Original Hole | Survey Calculation Method: | Minimum Curvature |
| Design: | Original Hole | Database: | Compass_US |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,576.50 | 91.02 | 182.60 | 7,258.96 | -4,935.66 | -1,031.51 | 4,965.47 | 1.02 | 0.85 | -0.57 |
| Section Line Entry 28C-34HZ Rev1 | | | | | | | | | |
| 12,648.00 | 91.63 | 182.19 | 7,257.30 | -5,007.08 | -1,034.49 | 5,036.95 | 1.02 | 0.85 | -0.57 |
| 12,740.00 | 88.11 | 181.84 | 7,257.51 | -5,099.00 | -1,037.73 | 5,128.93 | 3.84 | -3.83 | -0.38 |
| 12,833.00 | 87.32 | 180.26 | 7,261.22 | -5,191.91 | -1,039.43 | 5,221.84 | 1.90 | -0.85 | -1.70 |
| 12,912.00 | 87.49 | 179.73 | 7,264.80 | -5,270.83 | -1,039.43 | 5,300.72 | 0.70 | 0.22 | -0.67 |
| 12,977.00 | 87.49 | 179.73 | 7,267.64 | -5,335.77 | -1,039.12 | 5,365.62 | 0.00 | 0.00 | 0.00 |
| BHL 28C-34HZ Rev1 | | | | | | | | | |

Design Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|--------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-------------|--------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Surface 28C-34HZ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14,569,115.93 | 1,739,507.83 | 40.115847°N | 104.645568°W |
| - actual wellpath hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Land Box Entry 28C-3 | 0.00 | 0.00 | 7,258.95 | -94.55 | -850.36 | 14,569,017.99 | 1,738,657.86 | 40.115587°N | 104.648610°W |
| - actual wellpath hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Section Line Entry 28C-34HZ Rev1 | 0.00 | 0.00 | 7,258.96 | -4,935.66 | -1,031.51 | 14,564,176.20 | 1,738,496.01 | 40.102293°N | 104.649257°W |
| - actual wellpath hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| LP(final) 28C-34HZ R | 0.00 | 0.00 | 7,259.15 | -101.79 | -850.64 | 14,569,010.75 | 1,738,657.61 | 40.115567°N | 104.648611°W |
| - actual wellpath hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| BHL 28C-34HZ Rev1 | 0.00 | 0.00 | 7,267.64 | -5,335.77 | -1,039.12 | 14,563,776.06 | 1,738,489.99 | 40.101194°N | 104.649284°W |
| - actual wellpath hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 7,733.50 | 7,259.03 | -97.30 | -850.47 | Land Box Entry Rev1 |
| 7,738.00 | 7,259.15 | -101.79 | -850.64 | LP Rev1 |
| 12,579.75 | 7,258.90 | -4,938.90 | -1,031.66 | Section Line Entry Rev1 |