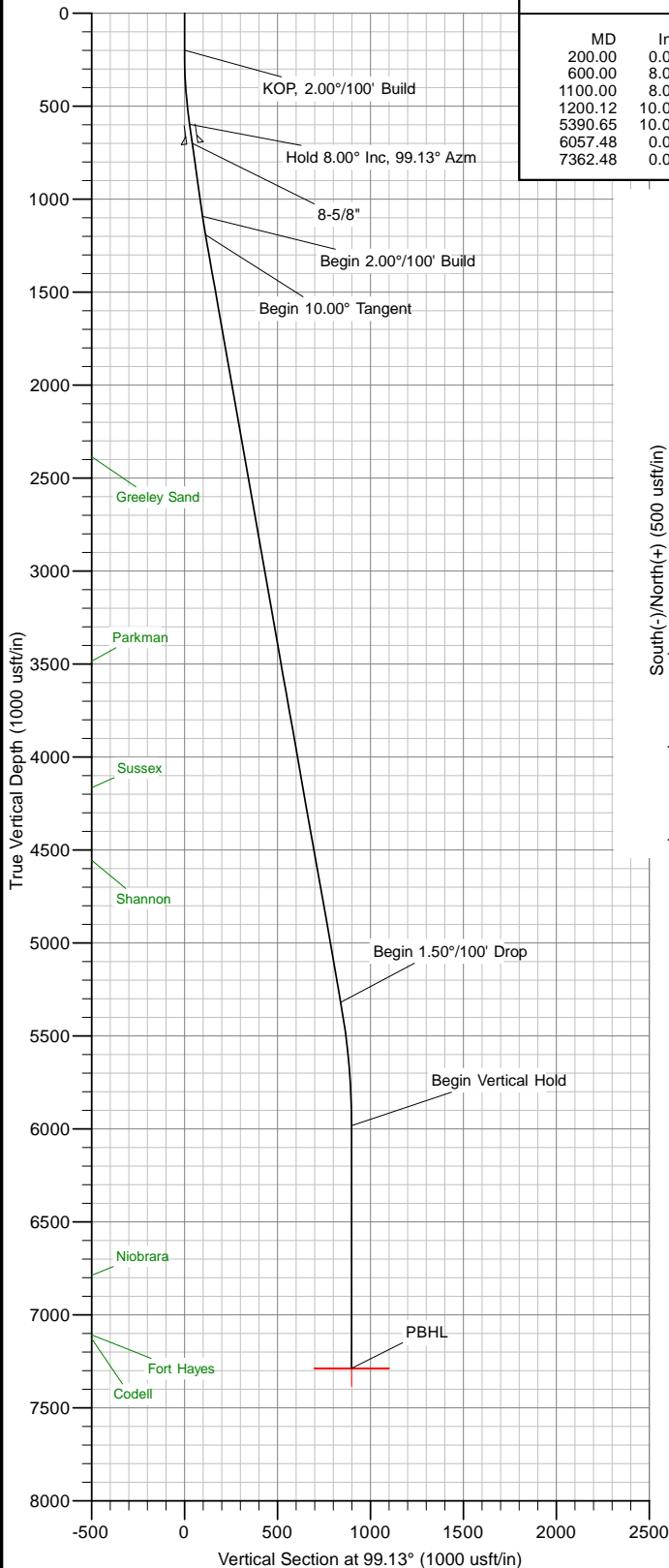




Company: Great Western
Site: Great Western
Well: 25-23
Project: Weld County, Colorado (NAD 83)
Rig Name: Cade 22

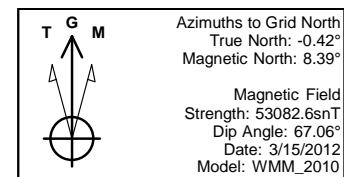
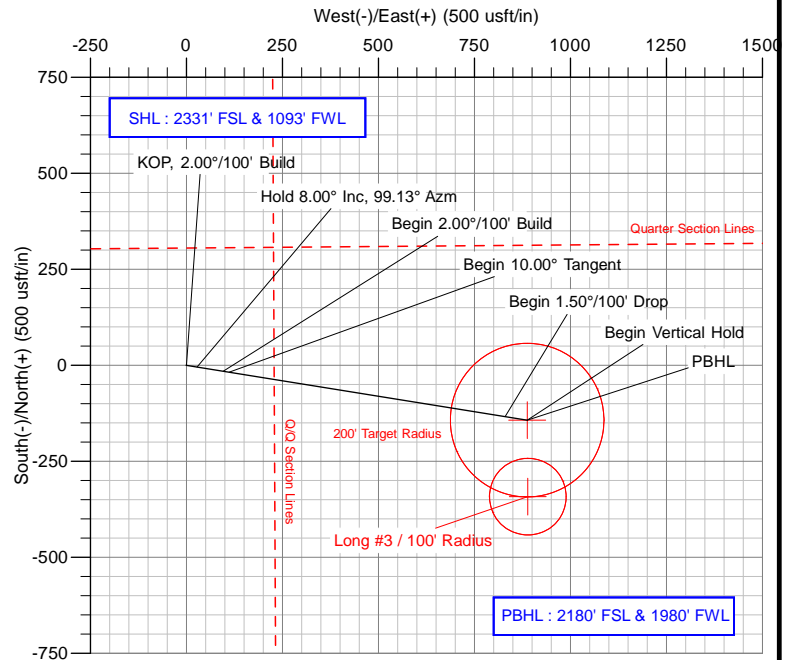


Planning: 936.442.2510 Fax: 936.442.2515
Operations: 936.442.2500 Fax: 936.442.2599



ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | V Sect | Departure | Annotation |
|---------|-------|-------|---------|---------|--------|--------|-----------|----------------------------|
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP, 2.00°/100' Build |
| 600.00 | 8.00 | 99.13 | 598.70 | -4.42 | 27.53 | 27.88 | 27.88 | Hold 8.00° Inc, 99.13° Azm |
| 1100.00 | 8.00 | 99.13 | 1093.84 | -15.46 | 96.23 | 97.47 | 97.47 | Begin 2.00°/100' Build |
| 1200.12 | 10.00 | 99.13 | 1192.72 | -17.95 | 111.70 | 113.13 | 113.13 | Begin 10.00° Tangent |
| 5390.65 | 10.00 | 99.13 | 5319.55 | -133.43 | 830.33 | 840.99 | 840.99 | Begin 1.50°/100' Drop |
| 6057.48 | 0.00 | 0.00 | 5983.00 | -142.64 | 887.66 | 899.04 | 899.04 | Begin Vertical Hold |
| 7362.48 | 0.00 | 0.00 | 7288.00 | -142.64 | 887.66 | 899.04 | 899.04 | PBHL |



US State Plane 1983
Colorado Northern Zone

Created By: Allen Slack
Date: 9:26, March 16 2012
Plan: Design #1

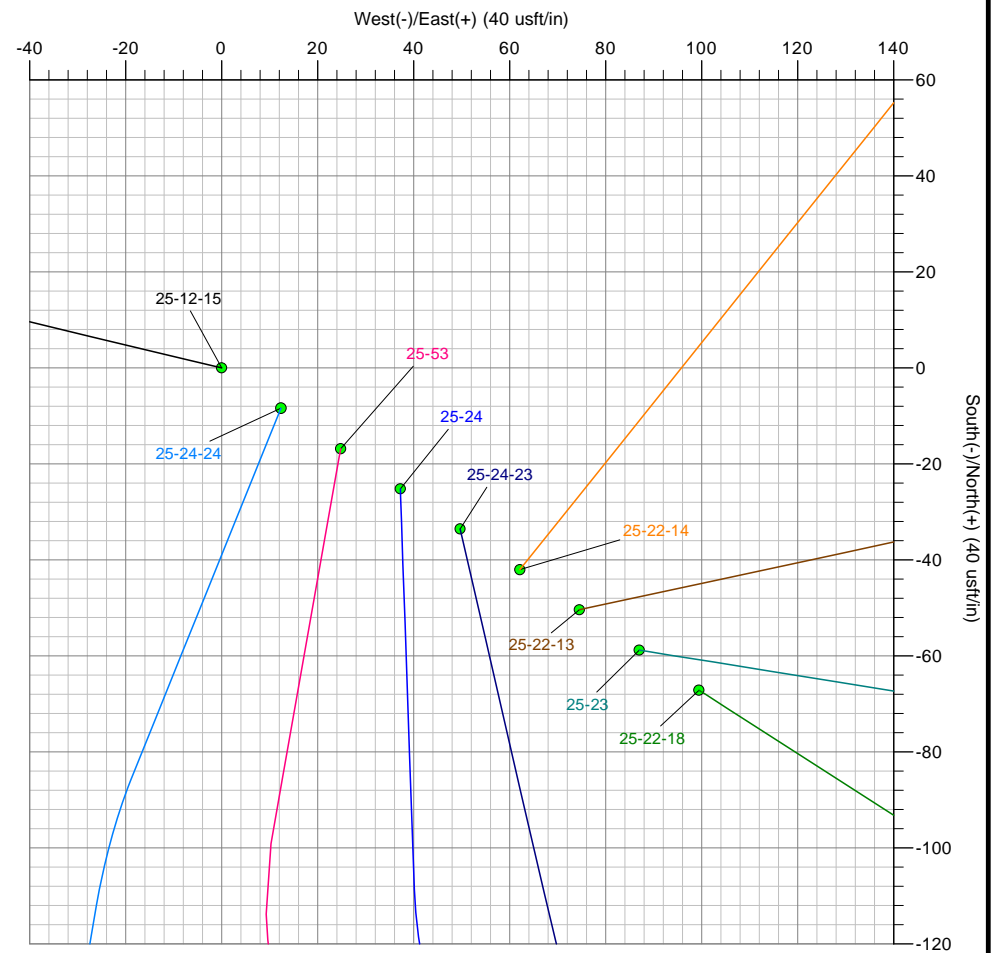
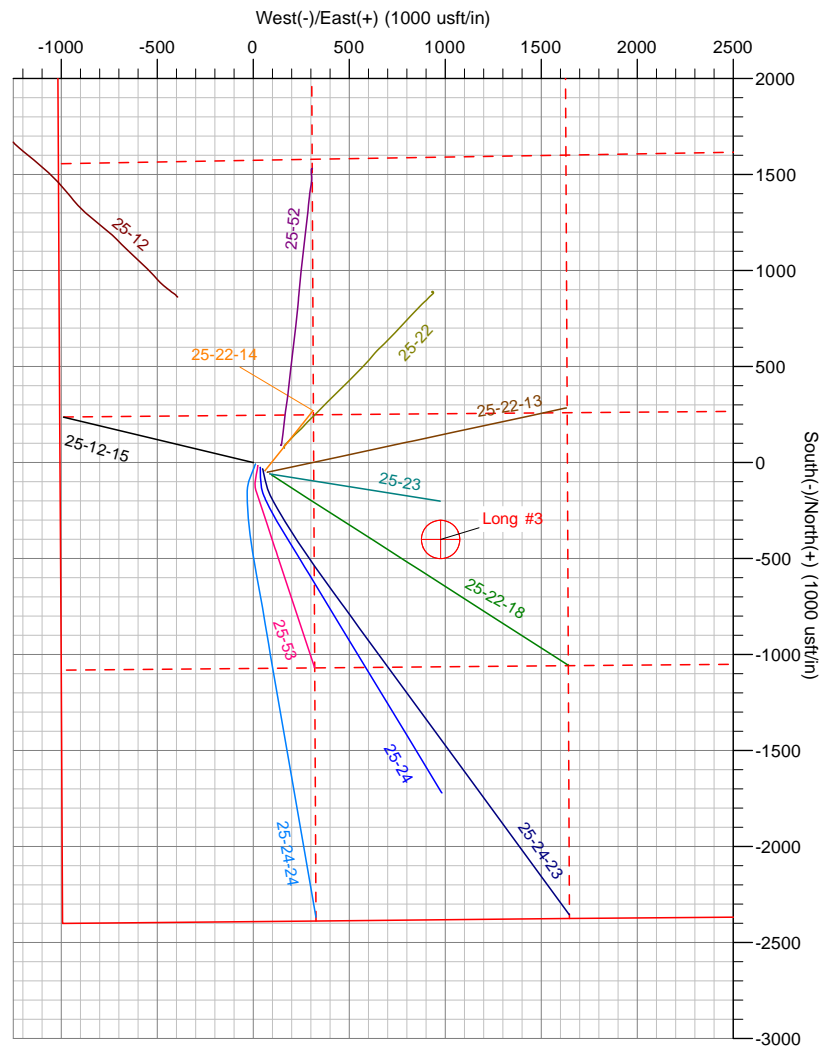
The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Company: Great Western
Site: Great Western
Project: Weld County, Colorado (NAD 83)
Rig Name: Cade 22



Planning: 936.442.2510 Fax: 936.442.2515
Operations: 936.442.2500 Fax: 936.442.2599



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Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer.
MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Great Western

Weld County, Colorado (NAD 83)

Great Western

25-23

Wellbore #1

Plan: Design #1

Standard Planning Report

16 March, 2012



MS Energy Services

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | Southern Region | Local Co-ordinate Reference: | Well 25-23 |
| Company: | Great Western | TVD Reference: | WELL @ 4765.00usft (Cade 22) |
| Project: | Weld County, Colorado (NAD 83) | MD Reference: | WELL @ 4765.00usft (Cade 22) |
| Site: | Great Western | North Reference: | Grid |
| Well: | 25-23 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|--------------------------------|----------------------|----------------|
| Project | Weld County, Colorado (NAD 83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | |
|-----------------------------|--------------|-------------------|----------------------------|-------------------|
| Well | 25-23 | | | |
| Well Position | +N/-S | 1,410,026.18 usft | Northing: | 1,410,026.18 usft |
| | +E/-W | 3,181,574.01 usft | Easting: | 3,181,574.01 usft |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | |
| | | | Latitude: | 40° 27' 25.5229 N |
| | | | Longitude: | 104° 50' 50.991 W |
| | | | Ground Level: | 4,751.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | WMM_2010 | 3/15/2012 | 8.81 | 67.06 | 53,083 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 99.13 |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|-------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 8.00 | 99.13 | 598.70 | -4.42 | 27.53 | 2.00 | 2.00 | 0.00 | 99.13 | PBHL v1 - Great W |
| 1,100.00 | 8.00 | 99.13 | 1,093.84 | -15.46 | 96.23 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,200.12 | 10.00 | 99.13 | 1,192.72 | -17.95 | 111.70 | 2.00 | 2.00 | 0.00 | 0.00 | |
| 5,390.65 | 10.00 | 99.13 | 5,319.55 | -133.43 | 830.33 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,057.48 | 0.00 | 0.00 | 5,983.00 | -142.64 | 887.66 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 7,362.48 | 0.00 | 0.00 | 7,288.00 | -142.64 | 887.66 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL v1 - Great W |

| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | Southern Region | Local Co-ordinate Reference: | Well 25-23 |
| Company: | Great Western | TVD Reference: | WELL @ 4765.00usft (Cade 22) |
| Project: | Weld County, Colorado (NAD 83) | MD Reference: | WELL @ 4765.00usft (Cade 22) |
| Site: | Great Western | North Reference: | Grid |
| Well: | 25-23 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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 |
| 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 |
| KOP, 2.00°/100' Build | | | | | | | | | |
| 300.00 | 2.00 | 99.13 | 299.98 | -0.28 | 1.72 | 1.75 | 2.00 | 2.00 | 0.00 |
| 400.00 | 4.00 | 99.13 | 399.84 | -1.11 | 6.89 | 6.98 | 2.00 | 2.00 | 0.00 |
| 500.00 | 6.00 | 99.13 | 499.45 | -2.49 | 15.49 | 15.69 | 2.00 | 2.00 | 0.00 |
| 600.00 | 8.00 | 99.13 | 598.70 | -4.42 | 27.53 | 27.88 | 2.00 | 2.00 | 0.00 |
| Hold 8.00° Inc, 99.13° Azm | | | | | | | | | |
| 700.00 | 8.00 | 99.13 | 697.73 | -6.63 | 41.27 | 41.80 | 0.00 | 0.00 | 0.00 |
| 702.29 | 8.00 | 99.13 | 700.00 | -6.68 | 41.58 | 42.12 | 0.00 | 0.00 | 0.00 |
| 8-5/8" | | | | | | | | | |
| 800.00 | 8.00 | 99.13 | 796.76 | -8.84 | 55.01 | 55.71 | 0.00 | 0.00 | 0.00 |
| 900.00 | 8.00 | 99.13 | 895.78 | -11.05 | 68.75 | 69.63 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 8.00 | 99.13 | 994.81 | -13.26 | 82.49 | 83.55 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 8.00 | 99.13 | 1,093.84 | -15.46 | 96.23 | 97.47 | 0.00 | 0.00 | 0.00 |
| Begin 2.00°/100' Build | | | | | | | | | |
| 1,200.00 | 10.00 | 99.13 | 1,192.60 | -17.95 | 111.68 | 113.11 | 2.00 | 2.00 | 0.00 |
| 1,200.12 | 10.00 | 99.13 | 1,192.72 | -17.95 | 111.70 | 113.13 | 2.00 | 2.00 | 0.00 |
| Begin 10.00° Tangent | | | | | | | | | |
| 1,300.00 | 10.00 | 99.13 | 1,291.08 | -20.70 | 128.83 | 130.48 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 10.00 | 99.13 | 1,389.56 | -23.46 | 145.97 | 147.85 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 10.00 | 99.13 | 1,488.04 | -26.21 | 163.12 | 165.22 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 10.00 | 99.13 | 1,586.52 | -28.97 | 180.27 | 182.59 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 10.00 | 99.13 | 1,685.00 | -31.72 | 197.42 | 199.95 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 10.00 | 99.13 | 1,783.48 | -34.48 | 214.57 | 217.32 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 10.00 | 99.13 | 1,881.96 | -37.24 | 231.72 | 234.69 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 10.00 | 99.13 | 1,980.44 | -39.99 | 248.87 | 252.06 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 10.00 | 99.13 | 2,078.92 | -42.75 | 266.02 | 269.43 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 10.00 | 99.13 | 2,177.40 | -45.50 | 283.17 | 286.80 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 10.00 | 99.13 | 2,275.88 | -48.26 | 300.32 | 304.17 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 10.00 | 99.13 | 2,374.36 | -51.01 | 317.47 | 321.54 | 0.00 | 0.00 | 0.00 |
| 2,410.80 | 10.00 | 99.13 | 2,385.00 | -51.31 | 319.32 | 323.41 | 0.00 | 0.00 | 0.00 |
| Greeley Sand | | | | | | | | | |
| 2,500.00 | 10.00 | 99.13 | 2,472.84 | -53.77 | 334.61 | 338.91 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 10.00 | 99.13 | 2,571.32 | -56.53 | 351.76 | 356.28 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 10.00 | 99.13 | 2,669.80 | -59.28 | 368.91 | 373.65 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 10.00 | 99.13 | 2,768.28 | -62.04 | 386.06 | 391.01 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 10.00 | 99.13 | 2,866.76 | -64.79 | 403.21 | 408.38 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 10.00 | 99.13 | 2,965.24 | -67.55 | 420.36 | 425.75 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 10.00 | 99.13 | 3,063.72 | -70.30 | 437.51 | 443.12 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 10.00 | 99.13 | 3,162.20 | -73.06 | 454.66 | 460.49 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 10.00 | 99.13 | 3,260.68 | -75.82 | 471.81 | 477.86 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 10.00 | 99.13 | 3,359.16 | -78.57 | 488.96 | 495.23 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 10.00 | 99.13 | 3,457.64 | -81.33 | 506.11 | 512.60 | 0.00 | 0.00 | 0.00 |
| 3,527.78 | 10.00 | 99.13 | 3,485.00 | -82.09 | 510.87 | 517.42 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | |
| 3,600.00 | 10.00 | 99.13 | 3,556.12 | -84.08 | 523.25 | 529.97 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 10.00 | 99.13 | 3,654.60 | -86.84 | 540.40 | 547.34 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 10.00 | 99.13 | 3,753.08 | -89.59 | 557.55 | 564.71 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 10.00 | 99.13 | 3,851.56 | -92.35 | 574.70 | 582.07 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 10.00 | 99.13 | 3,950.04 | -95.11 | 591.85 | 599.44 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 10.00 | 99.13 | 4,048.52 | -97.86 | 609.00 | 616.81 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | Southern Region | Local Co-ordinate Reference: | Well 25-23 |
| Company: | Great Western | TVD Reference: | WELL @ 4765.00usft (Cade 22) |
| Project: | Weld County, Colorado (NAD 83) | MD Reference: | WELL @ 4765.00usft (Cade 22) |
| Site: | Great Western | North Reference: | Grid |
| Well: | 25-23 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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) |
| 4,200.00 | 10.00 | 99.13 | 4,147.00 | -100.62 | 626.15 | 634.18 | 0.00 | 0.00 | 0.00 |
| 4,218.28 | 10.00 | 99.13 | 4,165.00 | -101.12 | 629.28 | 637.36 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 4,300.00 | 10.00 | 99.13 | 4,245.48 | -103.37 | 643.30 | 651.55 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 10.00 | 99.13 | 4,343.96 | -106.13 | 660.45 | 668.92 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 10.00 | 99.13 | 4,442.44 | -108.88 | 677.60 | 686.29 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 10.00 | 99.13 | 4,540.92 | -111.64 | 694.74 | 703.66 | 0.00 | 0.00 | 0.00 |
| 4,614.30 | 10.00 | 99.13 | 4,555.00 | -112.03 | 697.20 | 706.14 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |
| 4,700.00 | 10.00 | 99.13 | 4,639.40 | -114.40 | 711.89 | 721.03 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 10.00 | 99.13 | 4,737.88 | -117.15 | 729.04 | 738.40 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 10.00 | 99.13 | 4,836.36 | -119.91 | 746.19 | 755.76 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 10.00 | 99.13 | 4,934.84 | -122.66 | 763.34 | 773.13 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 10.00 | 99.13 | 5,033.32 | -125.42 | 780.49 | 790.50 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 10.00 | 99.13 | 5,131.80 | -128.17 | 797.64 | 807.87 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 10.00 | 99.13 | 5,230.28 | -130.93 | 814.79 | 825.24 | 0.00 | 0.00 | 0.00 |
| 5,390.65 | 10.00 | 99.13 | 5,319.55 | -133.43 | 830.33 | 840.99 | 0.00 | 0.00 | 0.00 |
| Begin 1.50°/100' Drop | | | | | | | | | |
| 5,400.00 | 9.86 | 99.13 | 5,328.76 | -133.68 | 831.93 | 842.60 | 1.50 | -1.50 | 0.00 |
| 5,500.00 | 8.36 | 99.13 | 5,427.50 | -136.20 | 847.56 | 858.44 | 1.50 | -1.50 | 0.00 |
| 5,600.00 | 6.86 | 99.13 | 5,526.61 | -138.30 | 860.64 | 871.68 | 1.50 | -1.50 | 0.00 |
| 5,700.00 | 5.36 | 99.13 | 5,626.04 | -139.99 | 871.15 | 882.33 | 1.50 | -1.50 | 0.00 |
| 5,800.00 | 3.86 | 99.13 | 5,725.72 | -141.26 | 879.09 | 890.37 | 1.50 | -1.50 | 0.00 |
| 5,900.00 | 2.36 | 99.13 | 5,825.57 | -142.13 | 884.45 | 895.80 | 1.50 | -1.50 | 0.00 |
| 6,000.00 | 0.86 | 99.13 | 5,925.52 | -142.57 | 887.23 | 898.61 | 1.50 | -1.50 | 0.00 |
| 6,057.48 | 0.00 | 0.00 | 5,983.00 | -142.64 | 887.66 | 899.04 | 1.50 | -1.50 | 0.00 |
| Begin Vertical Hold | | | | | | | | | |
| 6,100.00 | 0.00 | 0.00 | 6,025.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,125.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,225.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,325.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,425.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,525.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,625.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,725.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 6,862.48 | 0.00 | 0.00 | 6,788.00 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| Niobrara | | | | | | | | | |
| 6,900.00 | 0.00 | 0.00 | 6,825.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,925.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,025.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 7,182.48 | 0.00 | 0.00 | 7,108.00 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| Fort Hayes | | | | | | | | | |
| 7,200.00 | 0.00 | 0.00 | 7,125.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 7,202.48 | 0.00 | 0.00 | 7,128.00 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| Codell | | | | | | | | | |
| 7,300.00 | 0.00 | 0.00 | 7,225.52 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| 7,362.48 | 0.00 | 0.00 | 7,288.00 | -142.64 | 887.66 | 899.04 | 0.00 | 0.00 | 0.00 |
| PBHL | | | | | | | | | |

| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | Southern Region | Local Co-ordinate Reference: | Well 25-23 |
| Company: | Great Western | TVD Reference: | WELL @ 4765.00usft (Cade 22) |
| Project: | Weld County, Colorado (NAD 83) | MD Reference: | WELL @ 4765.00usft (Cade 22) |
| Site: | Great Western | North Reference: | Grid |
| Well: | 25-23 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| 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 | | | | | | | | | |
| PBHL v1 - Great Wes | 0.00 | 0.00 | 7,288.00 | -142.64 | 887.66 | 1,409,883.54 | 3,182,461.66 | 40° 27' 24.0487 N | 104° 50' 39.522 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 702.29 | 700.00 | 8-5/8" | 8-5/8 | 12-1/4 | |

| Formations | | | | | | |
|-----------------------|-----------------------|--------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 2,410.80 | 2,385.00 | Greeley Sand | | 0.00 | | |
| 3,527.78 | 3,485.00 | Parkman | | 0.00 | | |
| 4,218.28 | 4,165.00 | Sussex | | 0.00 | | |
| 4,614.30 | 4,555.00 | Shannon | | 0.00 | | |
| 6,862.48 | 6,788.00 | Niobrara | | 0.00 | | |
| 7,182.48 | 7,108.00 | Fort Hayes | | 0.00 | | |
| 7,202.48 | 7,128.00 | Codell | | 0.00 | | |

| Plan Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 200.00 | 200.00 | 0.00 | 0.00 | KOP, 2.00°/100' Build |
| 600.00 | 598.70 | -4.42 | 27.53 | Hold 8.00° Inc, 99.13° Azm |
| 1,100.00 | 1,093.84 | -15.46 | 96.23 | Begin 2.00°/100' Build |
| 1,200.12 | 1,192.72 | -17.95 | 111.70 | Begin 10.00° Tangent |
| 5,390.65 | 5,319.55 | -133.43 | 830.33 | Begin 1.50°/100' Drop |
| 6,057.48 | 5,983.00 | -142.64 | 887.66 | Begin Vertical Hold |
| 7,362.48 | 7,288.00 | -142.64 | 887.66 | PBHL |