

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 323-6 - Slot A05

Wellbore #1

Plan: Design #2 2Nov15 sam

Standard Planning Report

09 November, 2015

WPX

Planning Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------------|
| Database: | COMPASS | Local Co-ordinate Reference: | Well RU 323-6 (A05) - Slot A05 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 7009.00usft (HP 318) |
| Project: | RU 06-07S-093W | MD Reference: | KB @ 7009.00usft (HP 318) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 323-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 2Nov15 sam | | |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| Project | RU 06-07S-093W | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | Using geodetic scale factor |

| | | | | |
|------------------------------|-------------|---------------------|-------------------|----------------------------------|
| Site | RU 13-6 Pad | | | |
| Site Position: | | Northing: | 1,603,405.40 usft | Latitude: 39.467067 |
| From: Map | | Easting: | 2,343,761.30 usft | Longitude: -107.824733 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.47 ° |

| | | | | |
|-----------------------------|---------------------|------------|----------------------------|-------------------|
| Well | RU 323-6 - Slot A05 | | | |
| Well Position | +N/-S | 29.35 usft | Northing: | 1,603,434.90 usft |
| | +E/-W | -6.25 usft | Easting: | 2,343,755.80 usft |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft |
| | | | Ground Level: | 6,985.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 7/17/2014 | 9.87 | 65.66 | 51,937 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| Design | Design #2 2Nov15 sam | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (bearing) |
| | 0.00 | 0.00 | 0.00 | 69.73 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | 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 | |
| 144.00 | 0.00 | 0.00 | 144.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 817.95 | 20.22 | 69.73 | 804.05 | 40.77 | 110.39 | 3.00 | 3.00 | 0.00 | 69.73 | |
| 5,290.39 | 20.22 | 69.73 | 5,000.90 | 576.27 | 1,560.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,638.28 | 0.00 | 0.00 | 6,321.00 | 657.82 | 1,781.13 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 7,338.28 | 0.00 | 0.00 | 7,021.00 | 657.82 | 1,781.13 | 0.00 | 0.00 | 0.00 | 0.00 | RU 323-6 Top Gas 50 |
| 9,553.28 | 0.00 | 0.00 | 9,236.00 | 657.82 | 1,781.13 | 0.00 | 0.00 | 0.00 | 0.00 | |

WPX
Planning Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------------|
| Database: | COMPASS | Local Co-ordinate Reference: | Well RU 323-6 (A05) - Slot A05 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 7009.00usft (HP 318) |
| Project: | RU 06-07S-093W | MD Reference: | KB @ 7009.00usft (HP 318) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 323-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 2Nov15 sam | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | 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 |
| 144.00 | 0.00 | 0.00 | 144.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 3.00 | | | | | | | | | |
| 500.00 | 10.68 | 69.73 | 497.94 | 11.46 | 31.03 | 33.08 | 3.00 | 3.00 | 0.00 |
| 817.95 | 20.22 | 69.73 | 804.05 | 40.77 | 110.39 | 117.68 | 3.00 | 3.00 | 0.00 |
| Hold 20.22 Inclination | | | | | | | | | |
| 1,000.00 | 20.22 | 69.73 | 974.88 | 62.57 | 169.41 | 180.60 | 0.00 | 0.00 | 0.00 |
| 1,124.00 | 20.22 | 69.73 | 1,091.24 | 77.42 | 209.61 | 223.45 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,500.00 | 20.22 | 69.73 | 1,444.07 | 122.44 | 331.51 | 353.40 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 20.22 | 69.73 | 1,913.26 | 182.30 | 493.61 | 526.20 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 20.22 | 69.73 | 2,382.45 | 242.17 | 655.71 | 699.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 20.22 | 69.73 | 2,851.65 | 302.04 | 817.81 | 871.80 | 0.00 | 0.00 | 0.00 |
| 3,095.22 | 20.22 | 69.73 | 2,941.00 | 313.44 | 848.68 | 904.71 | 0.00 | 0.00 | 0.00 |
| Top of "G" Sand | | | | | | | | | |
| 3,201.79 | 20.22 | 69.73 | 3,041.00 | 326.20 | 883.23 | 941.54 | 0.00 | 0.00 | 0.00 |
| Base of "G" Sand | | | | | | | | | |
| 3,500.00 | 20.22 | 69.73 | 3,320.84 | 361.90 | 979.91 | 1,044.60 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 20.22 | 69.73 | 3,790.03 | 421.77 | 1,142.00 | 1,217.40 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 20.22 | 69.73 | 4,259.22 | 481.64 | 1,304.10 | 1,390.20 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 20.22 | 69.73 | 4,728.41 | 541.50 | 1,466.20 | 1,563.00 | 0.00 | 0.00 | 0.00 |
| 5,290.39 | 20.22 | 69.73 | 5,000.90 | 576.27 | 1,560.34 | 1,663.36 | 0.00 | 0.00 | 0.00 |
| Start Drop -1.50 | | | | | | | | | |
| 5,500.00 | 17.07 | 69.73 | 5,199.49 | 599.49 | 1,623.20 | 1,730.37 | 1.50 | -1.50 | 0.00 |
| 5,724.60 | 13.71 | 69.73 | 5,416.00 | 620.14 | 1,679.11 | 1,789.96 | 1.50 | -1.50 | 0.00 |
| Mesaverde | | | | | | | | | |
| 6,000.00 | 9.57 | 69.73 | 5,685.68 | 639.38 | 1,731.22 | 1,845.52 | 1.50 | -1.50 | 0.00 |
| 6,500.00 | 2.07 | 69.73 | 6,182.75 | 656.95 | 1,778.78 | 1,896.22 | 1.50 | -1.50 | 0.00 |
| 6,638.28 | 0.00 | 0.00 | 6,321.00 | 657.82 | 1,781.13 | 1,898.72 | 1.50 | -1.50 | 0.00 |
| Vertical | | | | | | | | | |
| 7,000.00 | 0.00 | 0.00 | 6,682.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 7,338.28 | 0.00 | 0.00 | 7,021.00 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| Top of Target - Approx. Top Gas | | | | | | | | | |
| 7,500.00 | 0.00 | 0.00 | 7,182.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,682.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,182.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 8,548.28 | 0.00 | 0.00 | 8,231.00 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| Cameo Coals | | | | | | | | | |
| 9,000.00 | 0.00 | 0.00 | 8,682.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 9,243.28 | 0.00 | 0.00 | 8,926.00 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| Coal D | | | | | | | | | |
| 9,403.28 | 0.00 | 0.00 | 9,086.00 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| Rollins SS | | | | | | | | | |
| 9,500.00 | 0.00 | 0.00 | 9,182.72 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| 9,553.28 | 0.00 | 0.00 | 9,236.00 | 657.82 | 1,781.13 | 1,898.72 | 0.00 | 0.00 | 0.00 |
| TD at 9529.28 - TD | | | | | | | | | |

WPX

Planning Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------------|
| Database: | COMPASS | Local Co-ordinate Reference: | Well RU 323-6 (A05) - Slot A05 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 7009.00usft (HP 318) |
| Project: | RU 06-07S-093W | MD Reference: | KB @ 7009.00usft (HP 318) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 323-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 2Nov15 sam | | |

| Design Targets | | | | | | | | | |
|---------------------------|-----------|-----------|----------|--------|----------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (bearing) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| - Shape | | | | | | | | | |
| RU 323-6 Top Gas 50' R | 0.00 | 0.00 | 7,021.00 | 657.82 | 1,781.13 | 1,604,046.90 | 2,345,553.10 | 39.468954 | -107.818446 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 50.00) | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|--------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | | Casing Diameter | Hole Diameter |
| (usft) | (usft) | | | (in) | (in) |
| 1,124.00 | 1,091.24 | 9 5/8" | | 9.625 | 13.500 |

| Formations | | | | | | |
|----------------|----------------|------------------|-----------|------|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (usft) | (usft) | | | (°) | (bearing) | |
| 3,095.22 | 2,941.00 | Top of "G" Sand | | 0.00 | | |
| 3,201.79 | 3,041.00 | Base of "G" Sand | | 0.00 | | |
| 5,724.60 | 5,416.00 | Mesaverde | | 0.00 | | |
| 7,338.28 | 7,021.00 | Approx. Top Gas | | 0.00 | | |
| 8,548.28 | 8,231.00 | Cameo Coals | | 0.00 | | |
| 9,243.28 | 8,926.00 | Coal D | | 0.00 | | |
| 9,403.28 | 9,086.00 | Rollins SS | | 0.00 | | |
| 9,553.28 | 9,236.00 | TD | | 0.00 | | |

| Plan Annotations | | | | | |
|------------------|----------------|-------------------|--------------|------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment | |
| (usft) | (usft) | +N/-S (usft) | +E/-W (usft) | | |
| 144.00 | 144.00 | 0.00 | 0.00 | Start Build 3.00 | |
| 817.95 | 804.05 | 40.77 | 110.39 | Hold 20.22 Inclination | |
| 5,290.39 | 5,000.90 | 576.27 | 1,560.34 | Start Drop -1.50 | |
| 6,638.28 | 6,321.00 | 657.82 | 1,781.13 | Vertical | |
| 7,338.28 | 7,021.00 | 657.82 | 1,781.13 | Top of Target | |
| 9,553.28 | 9,236.00 | 657.82 | 1,781.13 | TD at 9529.28 | |