

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 313-6 - Slot A03

Wellbore #1

Plan: Design #2 2Nov15 sam

Standard Planning Report

19 January, 2016

WPX

Planning Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------------|
| Database: | COMPASS | Local Co-ordinate Reference: | Well RU 313-6 (A03) - Slot A03 |
| 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 313-6 | 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 313-6 - Slot A03 | | | | | |
| Well Position | +N/-S | 14.73 usft | Northing: | 1,603,420.20 usft | Latitude: | 39.467108 |
| | +E/-W | -3.08 usft | Easting: | 2,343,758.60 usft | Longitude: | -107.824744 |
| 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 | 128.66 |

| 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 | |
| 344.00 | 6.00 | 110.00 | 343.63 | -3.58 | 9.83 | 3.00 | 3.00 | 0.00 | 110.00 | |
| 488.19 | 9.54 | 129.02 | 486.50 | -13.68 | 26.20 | 3.00 | 2.45 | 13.19 | 45.71 | |
| 5,707.02 | 9.54 | 129.02 | 5,633.23 | -557.99 | 697.90 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,342.73 | 0.00 | 0.00 | 6,266.00 | -591.21 | 738.90 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 9,247.73 | 0.00 | 0.00 | 9,171.00 | -591.21 | 738.90 | 0.00 | 0.00 | 0.00 | 0.00 | |

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| Project: | RU 06-07S-093W | MD Reference: | KB @ 7009.00usft (HP 318) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 313-6 | 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 | | | | | | | | | |
| 344.00 | 6.00 | 110.00 | 343.63 | -3.58 | 9.83 | 9.91 | 3.00 | 3.00 | 0.00 |
| Start Build Turn DLS 3.00 TFO 45.71 | | | | | | | | | |
| 488.19 | 9.54 | 129.02 | 486.50 | -13.68 | 26.20 | 29.00 | 3.00 | 2.45 | 13.19 |
| Hold 9.54 Inclination | | | | | | | | | |
| 500.00 | 9.54 | 129.02 | 498.15 | -14.91 | 27.72 | 30.96 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 9.54 | 129.02 | 991.24 | -67.06 | 92.07 | 113.79 | 0.00 | 0.00 | 0.00 |
| 1,124.00 | 9.54 | 129.02 | 1,113.53 | -79.99 | 108.03 | 134.33 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,500.00 | 9.54 | 129.02 | 1,484.33 | -119.21 | 156.43 | 196.62 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 9.54 | 129.02 | 1,977.42 | -171.36 | 220.78 | 279.44 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 9.54 | 129.02 | 2,470.51 | -223.50 | 285.13 | 362.27 | 0.00 | 0.00 | 0.00 |
| 2,961.87 | 9.54 | 129.02 | 2,926.00 | -271.68 | 344.58 | 438.78 | 0.00 | 0.00 | 0.00 |
| Top of "G" Sand | | | | | | | | | |
| 3,000.00 | 9.54 | 129.02 | 2,963.61 | -275.65 | 349.49 | 445.10 | 0.00 | 0.00 | 0.00 |
| 3,063.27 | 9.54 | 129.02 | 3,026.00 | -282.25 | 357.63 | 455.58 | 0.00 | 0.00 | 0.00 |
| Base of "G" Sand | | | | | | | | | |
| 3,500.00 | 9.54 | 129.02 | 3,456.70 | -327.80 | 413.84 | 527.93 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 9.54 | 129.02 | 3,949.79 | -379.95 | 478.19 | 610.76 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 9.54 | 129.02 | 4,442.88 | -432.10 | 542.55 | 693.59 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 9.54 | 129.02 | 4,935.97 | -484.25 | 606.90 | 776.41 | 0.00 | 0.00 | 0.00 |
| 5,475.60 | 9.54 | 129.02 | 5,405.00 | -533.85 | 668.11 | 855.20 | 0.00 | 0.00 | 0.00 |
| Mesaverde | | | | | | | | | |
| 5,500.00 | 9.54 | 129.02 | 5,429.06 | -536.39 | 671.25 | 859.24 | 0.00 | 0.00 | 0.00 |
| 5,707.02 | 9.54 | 129.02 | 5,633.23 | -557.99 | 697.90 | 893.54 | 0.00 | 0.00 | 0.00 |
| Start Drop -1.50 | | | | | | | | | |
| 6,000.00 | 5.14 | 129.02 | 5,923.73 | -581.54 | 726.96 | 930.95 | 1.50 | -1.50 | 0.00 |
| 6,342.73 | 0.00 | 0.00 | 6,266.00 | -591.21 | 738.90 | 946.31 | 1.50 | -1.50 | 0.00 |
| Vertical | | | | | | | | | |
| 6,500.00 | 0.00 | 0.00 | 6,423.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,923.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 7,042.73 | 0.00 | 0.00 | 6,966.00 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| Approx. Top Gas | | | | | | | | | |
| 7,500.00 | 0.00 | 0.00 | 7,423.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,923.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 8,222.73 | 0.00 | 0.00 | 8,146.00 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| Cameo Coals | | | | | | | | | |
| 8,500.00 | 0.00 | 0.00 | 8,423.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 8,937.73 | 0.00 | 0.00 | 8,861.00 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| Coal D | | | | | | | | | |
| 9,000.00 | 0.00 | 0.00 | 8,923.27 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| 9,097.73 | 0.00 | 0.00 | 9,021.00 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| Rollins SS | | | | | | | | | |
| 9,247.73 | 0.00 | 0.00 | 9,171.00 | -591.21 | 738.90 | 946.31 | 0.00 | 0.00 | 0.00 |
| TD at 9223.73 - TD | | | | | | | | | |

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| Project: | RU 06-07S-093W | MD Reference: | KB @ 7009.00usft (HP 318) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 313-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 2Nov15 sam | | |

| Design Targets | | | | | | | | | |
|--|------------------|-----------------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| RU 313-6 Top Gas 50' R - hit/miss target - Shape - plan hits target center - Circle (radius 50.00) | 0.00 | 0.00 | 6,966.00 | -591.21 | 738.90 | 1,602,810.30 | 2,344,482.10 | 39.465485 | -107.822127 |

| Casing Points | | | | | |
|-----------------------------|-----------------------------|--------|----------------------------|--------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 1,124.00 | 1,113.53 | 9 5/8" | 9.625 | 13.500 | |

| Formations | | | | | | |
|-----------------------------|-----------------------------|------------------|-----------|------------|-------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (bearing) | |
| 2,961.87 | 2,926.00 | Top of "G" Sand | | 0.00 | | |
| 3,063.27 | 3,026.00 | Base of "G" Sand | | 0.00 | | |
| 5,475.60 | 5,405.00 | Mesaverde | | 0.00 | | |
| 7,042.73 | 6,966.00 | Approx. Top Gas | | 0.00 | | |
| 8,222.73 | 8,146.00 | Cameo Coals | | 0.00 | | |
| 8,937.73 | 8,861.00 | Coal D | | 0.00 | | |
| 9,097.73 | 9,021.00 | Rollins SS | | 0.00 | | |
| 9,247.73 | 9,171.00 | TD | | 0.00 | | |

| Plan Annotations | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 144.00 | 144.00 | 0.00 | 0.00 | Start Build 3.00 | |
| 344.00 | 343.63 | -3.58 | 9.83 | Start Build Turn DLS 3.00 TFO 45.71 | |
| 488.19 | 486.50 | -13.68 | 26.20 | Hold 9.54 Inclination | |
| 5,707.02 | 5,633.23 | -557.99 | 697.90 | Start Drop -1.50 | |
| 6,342.73 | 6,266.00 | -591.21 | 738.90 | Vertical | |
| 9,247.73 | 9,171.00 | -591.21 | 738.90 | TD at 9223.73 | |