

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 11-6 - Slot B10

Wellbore #1

Plan: Design #1 16Jul14 mab

Standard Planning Report - Geographic

16 September, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 11-6 - Slot B10 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Project: | RU 06-07S-093W | MD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 11-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 16Jul14 mab | | |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| 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: | 1,603,405.40000 usft | Latitude: 39.467067 |
| From: Map | | Easting: | 2,343,761.30000 usft | Longitude: -107.824733 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.47 ° |

| | | | | |
|-----------------------------|--------------------|-----------|----------------------------|----------------------|
| Well | RU 11-6 - Slot B10 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,603,469.90000 usft |
| | +E/-W | 0.00 usft | Easting: | 2,343,739.00000 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 | 7/16/2014 | 9.87 | 65.66 | 51,937 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| Design | Design #1 16Jul14 mab | | | |
| 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 | 1.93 |

| 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 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,013.32 | 29.03 | 1.93 | 975.58 | 221.41 | 7.47 | 3.25 | 3.25 | 0.00 | 1.93 | |
| 5,047.97 | 29.03 | 1.93 | 4,503.24 | 2,178.37 | 73.45 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,983.51 | 0.00 | 0.00 | 6,357.00 | 2,658.08 | 89.62 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 7,283.51 | 0.00 | 0.00 | 6,657.00 | 2,658.08 | 89.62 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (50' Radius) |
| 10,033.51 | 0.00 | 0.00 | 9,407.00 | 2,658.08 | 89.62 | 0.00 | 0.00 | 0.00 | 0.00 | |

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|------------------|-----------------------|-------------------------------------|--|
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| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Project: | RU 06-07S-093W | MD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 11-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 16Jul14 mab | | |

| Planned Survey | | | | | | | | | | |
|-----------------------------|--------------------|----------------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|-----------|-------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,603,469.90000 | 2,343,739.00000 | 39.467243 | -107.824818 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 1,603,469.90000 | 2,343,739.00000 | 39.467243 | -107.824818 | |
| Start Build 3.25 | | | | | | | | | | |
| 200.00 | 2.60 | 1.93 | 199.97 | 1.81 | 0.06 | 1,603,471.71156 | 2,343,739.10754 | 39.467248 | -107.824818 | |
| 400.00 | 9.10 | 1.93 | 398.82 | 22.18 | 0.75 | 1,603,492.04883 | 2,343,740.31484 | 39.467304 | -107.824815 | |
| 600.00 | 15.60 | 1.93 | 594.09 | 64.91 | 2.19 | 1,603,534.72548 | 2,343,742.84831 | 39.467421 | -107.824810 | |
| 800.00 | 22.10 | 1.93 | 783.26 | 129.45 | 4.36 | 1,603,599.19286 | 2,343,746.67536 | 39.467598 | -107.824802 | |
| 1,000.00 | 28.60 | 1.93 | 963.91 | 214.99 | 7.25 | 1,603,684.62214 | 2,343,751.74680 | 39.467833 | -107.824792 | |
| 1,013.32 | 29.03 | 1.93 | 975.58 | 221.41 | 7.47 | 1,603,691.03316 | 2,343,752.12738 | 39.467851 | -107.824791 | |
| Hold 29.03° Inc, 1.93° Az | | | | | | | | | | |
| 1,100.00 | 29.03 | 1.93 | 1,051.37 | 263.45 | 8.88 | 1,603,733.02214 | 2,343,754.62003 | 39.467966 | -107.824786 | |
| 9 5/8" | | | | | | | | | | |
| 1,200.00 | 29.03 | 1.93 | 1,138.80 | 311.95 | 10.52 | 1,603,781.46614 | 2,343,757.49586 | 39.468099 | -107.824780 | |
| 1,400.00 | 29.03 | 1.93 | 1,313.67 | 408.96 | 13.79 | 1,603,878.35414 | 2,343,763.24754 | 39.468366 | -107.824769 | |
| 1,600.00 | 29.03 | 1.93 | 1,488.54 | 505.97 | 17.06 | 1,603,975.24215 | 2,343,768.99922 | 39.468632 | -107.824757 | |
| 1,800.00 | 29.03 | 1.93 | 1,663.40 | 602.97 | 20.33 | 1,604,072.13016 | 2,343,774.75089 | 39.468898 | -107.824746 | |
| 2,000.00 | 29.03 | 1.93 | 1,838.27 | 699.98 | 23.60 | 1,604,169.01817 | 2,343,780.50257 | 39.469165 | -107.824734 | |
| 2,200.00 | 29.03 | 1.93 | 2,013.14 | 796.99 | 26.87 | 1,604,265.90617 | 2,343,786.25424 | 39.469431 | -107.824723 | |
| 2,400.00 | 29.03 | 1.93 | 2,188.01 | 894.00 | 30.14 | 1,604,362.79417 | 2,343,792.00592 | 39.469697 | -107.824711 | |
| 2,600.00 | 29.03 | 1.93 | 2,362.88 | 991.00 | 33.41 | 1,604,459.68218 | 2,343,797.75760 | 39.469964 | -107.824699 | |
| 2,800.00 | 29.03 | 1.93 | 2,537.74 | 1,088.01 | 36.68 | 1,604,556.57019 | 2,343,803.50927 | 39.470230 | -107.824688 | |
| 3,000.00 | 29.03 | 1.93 | 2,712.61 | 1,185.02 | 39.95 | 1,604,653.45819 | 2,343,809.26095 | 39.470496 | -107.824676 | |
| 3,200.00 | 29.03 | 1.93 | 2,887.48 | 1,282.03 | 43.23 | 1,604,750.34620 | 2,343,815.01263 | 39.470762 | -107.824665 | |
| 3,221.18 | 29.03 | 1.93 | 2,906.00 | 1,292.30 | 43.57 | 1,604,760.60721 | 2,343,815.62176 | 39.470791 | -107.824663 | |
| Top of "G" Sand | | | | | | | | | | |
| 3,335.55 | 29.03 | 1.93 | 3,006.00 | 1,347.78 | 45.44 | 1,604,816.01358 | 2,343,818.91092 | 39.470943 | -107.824657 | |
| Base of "G" Sand | | | | | | | | | | |
| 3,400.00 | 29.03 | 1.93 | 3,062.35 | 1,379.04 | 46.50 | 1,604,847.23421 | 2,343,820.76430 | 39.471029 | -107.824653 | |
| 3,600.00 | 29.03 | 1.93 | 3,237.22 | 1,476.04 | 49.77 | 1,604,944.12222 | 2,343,826.51598 | 39.471295 | -107.824641 | |
| 3,800.00 | 29.03 | 1.93 | 3,412.08 | 1,573.05 | 53.04 | 1,605,041.01022 | 2,343,832.26766 | 39.471561 | -107.824630 | |
| 4,000.00 | 29.03 | 1.93 | 3,586.95 | 1,670.06 | 56.31 | 1,605,137.89823 | 2,343,838.01933 | 39.471828 | -107.824618 | |
| 4,200.00 | 29.03 | 1.93 | 3,761.82 | 1,767.07 | 59.58 | 1,605,234.78624 | 2,343,843.77101 | 39.472094 | -107.824607 | |
| 4,400.00 | 29.03 | 1.93 | 3,936.69 | 1,864.07 | 62.85 | 1,605,331.67425 | 2,343,849.52268 | 39.472360 | -107.824595 | |
| 4,600.00 | 29.03 | 1.93 | 4,111.56 | 1,961.08 | 66.12 | 1,605,428.56225 | 2,343,855.27436 | 39.472627 | -107.824584 | |
| 4,800.00 | 29.03 | 1.93 | 4,286.42 | 2,058.09 | 69.39 | 1,605,525.45025 | 2,343,861.02604 | 39.472893 | -107.824572 | |
| 5,000.00 | 29.03 | 1.93 | 4,461.29 | 2,155.10 | 72.66 | 1,605,622.33826 | 2,343,866.77771 | 39.473159 | -107.824560 | |
| 5,047.97 | 29.03 | 1.93 | 4,503.24 | 2,178.37 | 73.45 | 1,605,645.57817 | 2,343,868.15733 | 39.473223 | -107.824558 | |
| Start Drop -1.50°/100 | | | | | | | | | | |
| 5,200.00 | 26.75 | 1.93 | 4,637.59 | 2,249.44 | 75.84 | 1,605,716.56672 | 2,343,872.37151 | 39.473418 | -107.824549 | |
| 5,400.00 | 23.75 | 1.93 | 4,818.46 | 2,334.71 | 78.72 | 1,605,801.72541 | 2,343,877.42688 | 39.473652 | -107.824539 | |
| 5,600.00 | 20.75 | 1.93 | 5,003.54 | 2,410.39 | 81.27 | 1,605,877.31864 | 2,343,881.91441 | 39.473860 | -107.824530 | |
| 5,800.00 | 17.75 | 1.93 | 5,192.34 | 2,476.29 | 83.49 | 1,605,943.13919 | 2,343,885.82179 | 39.474041 | -107.824522 | |
| 6,000.00 | 14.75 | 1.93 | 5,384.32 | 2,532.23 | 85.38 | 1,605,999.00666 | 2,343,889.13832 | 39.474195 | -107.824515 | |
| 6,017.24 | 14.49 | 1.93 | 5,401.00 | 2,536.58 | 85.53 | 1,606,003.35045 | 2,343,889.39619 | 39.474207 | -107.824515 | |
| Mesaverde | | | | | | | | | | |
| 6,200.00 | 11.75 | 1.93 | 5,578.97 | 2,578.05 | 86.92 | 1,606,044.76792 | 2,343,891.85490 | 39.474320 | -107.824510 | |
| 6,400.00 | 8.75 | 1.93 | 5,775.76 | 2,613.62 | 88.12 | 1,606,080.29754 | 2,343,893.96409 | 39.474418 | -107.824506 | |
| 6,600.00 | 5.75 | 1.93 | 5,974.13 | 2,638.85 | 88.97 | 1,606,105.49814 | 2,343,895.46010 | 39.474487 | -107.824503 | |
| 6,800.00 | 2.75 | 1.93 | 6,173.56 | 2,653.67 | 89.47 | 1,606,120.30064 | 2,343,896.33884 | 39.474528 | -107.824501 | |
| 6,983.51 | 0.00 | 0.00 | 6,357.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| Vertical | | | | | | | | | | |
| 7,000.00 | 0.00 | 0.00 | 6,373.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |

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| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Project: | RU 06-07S-093W | MD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 11-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 16Jul14 mab | | |

| Planned Survey | | | | | | | | | | |
|---------------------------|-----------------|-------------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 7,200.00 | 0.00 | 0.00 | 6,573.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 7,283.51 | 0.00 | 0.00 | 6,657.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 7,400.00 | 0.00 | 0.00 | 6,773.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 7,600.00 | 0.00 | 0.00 | 6,973.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 7,800.00 | 0.00 | 0.00 | 7,173.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,000.00 | 0.00 | 0.00 | 7,373.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,200.00 | 0.00 | 0.00 | 7,573.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,400.00 | 0.00 | 0.00 | 7,773.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,600.00 | 0.00 | 0.00 | 7,973.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,800.00 | 0.00 | 0.00 | 8,173.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 8,997.51 | 0.00 | 0.00 | 8,371.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| Cameo Coals | | | | | | | | | | |
| 9,000.00 | 0.00 | 0.00 | 8,373.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 9,200.00 | 0.00 | 0.00 | 8,573.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 9,400.00 | 0.00 | 0.00 | 8,773.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 9,600.00 | 0.00 | 0.00 | 8,973.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 9,726.51 | 0.00 | 0.00 | 9,100.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| Coal D | | | | | | | | | | |
| 9,800.00 | 0.00 | 0.00 | 9,173.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 9,883.51 | 0.00 | 0.00 | 9,257.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| Rollins SS | | | | | | | | | | |
| 10,000.00 | 0.00 | 0.00 | 9,373.49 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| 10,033.51 | 0.00 | 0.00 | 9,407.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| TD at 10033.51 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---------------------------|---------------|--------------------|------------|--------------|--------------|-----------------|-----------------|-----------|-------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| Top Gas (50' Radius) RL | 0.00 | 0.00 | 6,657.00 | 2,658.08 | 89.62 | 1,606,124.70000 | 2,343,896.60000 | 39.474540 | -107.824500 | |
| - plan hits target center | | | | | | | | | | |
| - Circle (radius 50.00) | | | | | | | | | | |

| Casing Points | | | | | | |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | | |
| 1,100.00 | 1,051.37 | 9 5/8" | 9.625 | 13.500 | | |

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| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Project: | RU 06-07S-093W | MD Reference: | KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab) |
| Site: | RU 13-6 Pad | North Reference: | True |
| Well: | RU 11-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 16Jul14 mab | | |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (bearing) | |
| 3,221.18 | 2,906.00 | Top of "G" Sand | | | | |
| 3,335.55 | 3,006.00 | Base of "G" Sand | | | | |
| 6,017.24 | 5,401.00 | Mesaverde | | | | |
| 7,283.51 | 6,657.00 | Approx. Top Gas | | | | |
| 8,997.51 | 8,371.00 | Cameo Coals | | | | |
| 9,726.51 | 9,100.00 | Coal D | | | | |
| 9,883.51 | 9,257.00 | Rollins SS | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 120.00 | 120.00 | 0.00 | 0.00 | Start Build 3.25 | |
| 1,013.32 | 975.58 | 221.41 | 7.47 | Hold 29.03° Inc, 1.93° Az | |
| 5,047.97 | 4,503.24 | 2,178.37 | 73.45 | Start Drop -1.50°/100 | |
| 6,983.51 | 6,357.00 | 2,658.08 | 89.62 | Vertical | |
| 7,283.51 | 6,657.00 | 2,658.08 | 89.62 | Top Gas | |
| 10,033.51 | 9,407.00 | 2,658.08 | 89.62 | TD at 10033.51 | |