

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 524-6 - Slot A02

Wellbore #1

Plan: Design #1 17Jul14 mab

Standard Planning Report - Geographic

17 September, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 524-6 - Slot A02 |
| 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 524-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 17Jul14 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 |
| From: | Map | Easting: | 2,343,761.30000 usft |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in |
| | | Latitude: | 39.467067 |
| | | Longitude: | -107.824733 |
| | | Grid Convergence: | -1.47 ° |

| | | | |
|-----------------------------|---------------------|----------------------------|---------------------------------------|
| Well | RU 524-6 - Slot A02 | | |
| Well Position | +N/-S | 0.00 usft | Northing: 1,603,412.80000 usft |
| | +E/-W | 0.00 usft | Easting: 2,343,759.90000 usft |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | 0.00 usft |
| | | Latitude: | 39.467088 |
| | | Longitude: | -107.824739 |
| | | 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 #1 17Jul14 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 | 120.29 | |

| 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 | |
| 853.46 | 25.67 | 120.29 | 829.17 | -81.49 | 139.53 | 3.50 | 3.50 | 0.00 | 120.29 | |
| 4,576.00 | 25.67 | 120.29 | 4,184.28 | -894.74 | 1,532.08 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,287.42 | 0.00 | 0.00 | 5,839.00 | -1,084.87 | 1,857.65 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 6,887.42 | 0.00 | 0.00 | 6,439.00 | -1,084.87 | 1,857.65 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (50' Radius) |
| 9,637.42 | 0.00 | 0.00 | 9,189.00 | -1,084.87 | 1,857.65 | 0.00 | 0.00 | 0.00 | 0.00 | |

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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 524-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 17Jul14 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 | 1,603,412.80000 | 2,343,759.90000 | 39.467088 | -107.824739 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 1,603,412.80000 | 2,343,759.90000 | 39.467088 | -107.824739 | |
| Start Build 3.50 | | | | | | | | | | |
| 200.00 | 2.80 | 120.29 | 199.97 | -0.99 | 1.69 | 1,603,411.77158 | 2,343,761.56181 | 39.467085 | -107.824733 | |
| 400.00 | 9.80 | 120.29 | 398.64 | -12.05 | 20.63 | 1,603,400.23010 | 2,343,780.21170 | 39.467055 | -107.824666 | |
| 600.00 | 16.80 | 120.29 | 593.15 | -35.24 | 60.33 | 1,603,376.03427 | 2,343,819.30978 | 39.466991 | -107.824525 | |
| 800.00 | 23.80 | 120.29 | 780.61 | -70.21 | 120.21 | 1,603,339.54478 | 2,343,878.27320 | 39.466895 | -107.824313 | |
| 853.46 | 25.67 | 120.29 | 829.17 | -81.49 | 139.53 | 1,603,327.77396 | 2,343,897.29367 | 39.466864 | -107.824244 | |
| Hold 25.67° Inc, 120.29° Az | | | | | | | | | | |
| 1,000.00 | 25.67 | 120.29 | 961.24 | -113.50 | 194.35 | 1,603,294.36952 | 2,343,951.27194 | 39.466776 | -107.824050 | |
| 1,100.00 | 25.67 | 120.29 | 1,051.37 | -135.35 | 231.76 | 1,603,271.57382 | 2,343,988.10754 | 39.466716 | -107.823918 | |
| 9 5/8" | | | | | | | | | | |
| 1,200.00 | 25.67 | 120.29 | 1,141.50 | -157.19 | 269.16 | 1,603,248.77811 | 2,344,024.94314 | 39.466656 | -107.823785 | |
| 1,400.00 | 25.67 | 120.29 | 1,321.76 | -200.89 | 343.98 | 1,603,203.18671 | 2,344,098.61434 | 39.466536 | -107.823520 | |
| 1,600.00 | 25.67 | 120.29 | 1,502.02 | -244.58 | 418.80 | 1,603,157.59530 | 2,344,172.28555 | 39.466416 | -107.823255 | |
| 1,800.00 | 25.67 | 120.29 | 1,682.28 | -288.27 | 493.62 | 1,603,112.00389 | 2,344,245.95675 | 39.466296 | -107.822990 | |
| 2,000.00 | 25.67 | 120.29 | 1,862.54 | -331.97 | 568.43 | 1,603,066.41248 | 2,344,319.62796 | 39.466176 | -107.822725 | |
| 2,200.00 | 25.67 | 120.29 | 2,042.80 | -375.66 | 643.25 | 1,603,020.82107 | 2,344,393.29916 | 39.466056 | -107.822460 | |
| 2,400.00 | 25.67 | 120.29 | 2,223.05 | -419.35 | 718.07 | 1,602,975.22967 | 2,344,466.97036 | 39.465936 | -107.822195 | |
| 2,600.00 | 25.67 | 120.29 | 2,403.31 | -463.05 | 792.88 | 1,602,929.63826 | 2,344,540.64157 | 39.465816 | -107.821930 | |
| 2,800.00 | 25.67 | 120.29 | 2,583.57 | -506.74 | 867.70 | 1,602,884.04685 | 2,344,614.31277 | 39.465696 | -107.821665 | |
| 3,000.00 | 25.67 | 120.29 | 2,763.83 | -550.43 | 942.52 | 1,602,838.45545 | 2,344,687.98398 | 39.465576 | -107.821400 | |
| 3,174.38 | 25.67 | 120.29 | 2,921.00 | -588.53 | 1,007.75 | 1,602,798.70417 | 2,344,752.21811 | 39.465472 | -107.821169 | |
| Top of "G" Sand | | | | | | | | | | |
| 3,200.00 | 25.67 | 120.29 | 2,944.09 | -594.13 | 1,017.33 | 1,602,792.86404 | 2,344,761.65518 | 39.465456 | -107.821135 | |
| 3,285.33 | 25.67 | 120.29 | 3,021.00 | -612.77 | 1,049.26 | 1,602,773.41201 | 2,344,793.08774 | 39.465405 | -107.821022 | |
| Base of "G" Sand | | | | | | | | | | |
| 3,400.00 | 25.67 | 120.29 | 3,124.35 | -637.82 | 1,092.15 | 1,602,747.27263 | 2,344,835.32638 | 39.465337 | -107.820870 | |
| 3,600.00 | 25.67 | 120.29 | 3,304.61 | -681.51 | 1,166.97 | 1,602,701.68122 | 2,344,908.99758 | 39.465217 | -107.820605 | |
| 3,800.00 | 25.67 | 120.29 | 3,484.87 | -725.21 | 1,241.78 | 1,602,656.08981 | 2,344,982.66879 | 39.465097 | -107.820340 | |
| 4,000.00 | 25.67 | 120.29 | 3,665.13 | -768.90 | 1,316.60 | 1,602,610.49840 | 2,345,056.34000 | 39.464977 | -107.820075 | |
| 4,200.00 | 25.67 | 120.29 | 3,845.39 | -812.59 | 1,391.42 | 1,602,564.90700 | 2,345,130.01120 | 39.464857 | -107.819810 | |
| 4,400.00 | 25.67 | 120.29 | 4,025.64 | -856.29 | 1,466.24 | 1,602,519.31559 | 2,345,203.68241 | 39.464737 | -107.819545 | |
| 4,576.00 | 25.67 | 120.29 | 4,184.28 | -894.74 | 1,532.08 | 1,602,479.19410 | 2,345,268.51476 | 39.464631 | -107.819312 | |
| Start Drop -1.50°/100 | | | | | | | | | | |
| 4,600.00 | 25.31 | 120.29 | 4,205.94 | -899.95 | 1,540.99 | 1,602,473.75997 | 2,345,277.29578 | 39.464617 | -107.819281 | |
| 4,800.00 | 22.31 | 120.29 | 4,388.89 | -940.66 | 1,610.71 | 1,602,431.27604 | 2,345,345.94561 | 39.464505 | -107.819034 | |
| 5,000.00 | 19.31 | 120.29 | 4,575.82 | -976.49 | 1,672.06 | 1,602,393.88886 | 2,345,406.35959 | 39.464407 | -107.818816 | |
| 5,200.00 | 16.31 | 120.29 | 4,766.21 | -1,007.34 | 1,724.89 | 1,602,361.70092 | 2,345,458.37212 | 39.464322 | -107.818629 | |
| 5,400.00 | 13.31 | 120.29 | 4,959.55 | -1,033.12 | 1,769.03 | 1,602,334.80043 | 2,345,501.84065 | 39.464251 | -107.818473 | |
| 5,600.00 | 10.31 | 120.29 | 5,155.29 | -1,053.76 | 1,804.38 | 1,602,313.26112 | 2,345,536.64603 | 39.464194 | -107.818348 | |
| 5,800.00 | 7.31 | 120.29 | 5,352.91 | -1,069.21 | 1,830.83 | 1,602,297.14205 | 2,345,562.69287 | 39.464152 | -107.818254 | |
| 5,818.24 | 7.04 | 120.29 | 5,371.00 | -1,070.36 | 1,832.80 | 1,602,295.94358 | 2,345,564.62948 | 39.464149 | -107.818247 | |
| Mesaverde | | | | | | | | | | |
| 6,000.00 | 4.31 | 120.29 | 5,551.86 | -1,079.42 | 1,848.31 | 1,602,286.48738 | 2,345,579.90976 | 39.464124 | -107.818192 | |
| 6,200.00 | 1.31 | 120.29 | 5,751.59 | -1,084.37 | 1,856.78 | 1,602,281.32632 | 2,345,588.24952 | 39.464110 | -107.818162 | |
| 6,287.42 | 0.00 | 0.00 | 5,839.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 | |
| Vertical | | | | | | | | | | |
| 6,400.00 | 0.00 | 0.00 | 5,951.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 | |
| 6,600.00 | 0.00 | 0.00 | 6,151.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 | |
| 6,800.00 | 0.00 | 0.00 | 6,351.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 | |

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| 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 524-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 17Jul14 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 |
| 6,887.42 | 0.00 | 0.00 | 6,439.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| Top Gas - Approx. Top Gas | | | | | | | | | |
| 7,000.00 | 0.00 | 0.00 | 6,551.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 7,200.00 | 0.00 | 0.00 | 6,751.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 7,400.00 | 0.00 | 0.00 | 6,951.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 7,600.00 | 0.00 | 0.00 | 7,151.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 7,800.00 | 0.00 | 0.00 | 7,351.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 8,000.00 | 0.00 | 0.00 | 7,551.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 8,200.00 | 0.00 | 0.00 | 7,751.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 8,400.00 | 0.00 | 0.00 | 7,951.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 8,600.00 | 0.00 | 0.00 | 8,151.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 8,628.42 | 0.00 | 0.00 | 8,180.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| Cameo Coals | | | | | | | | | |
| 8,800.00 | 0.00 | 0.00 | 8,351.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 9,000.00 | 0.00 | 0.00 | 8,551.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 9,200.00 | 0.00 | 0.00 | 8,751.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 9,329.42 | 0.00 | 0.00 | 8,881.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| Coal D | | | | | | | | | |
| 9,400.00 | 0.00 | 0.00 | 8,951.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 9,487.42 | 0.00 | 0.00 | 9,039.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| Rollins SS | | | | | | | | | |
| 9,600.00 | 0.00 | 0.00 | 9,151.58 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| 9,637.42 | 0.00 | 0.00 | 9,189.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |
| TD at 9637.42 - TD | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------------|------------|--------------|--------------|-----------------|-----------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Top Gas (50' Radius) RL - plan hits target center - Circle (radius 50.00) | 0.00 | 0.00 | 6,439.00 | -1,084.87 | 1,857.65 | 1,602,280.80000 | 2,345,589.10000 | 39.464109 | -107.818159 |

| 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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| 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 524-6 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 17Jul14 mab | | |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (bearing) | |
| 3,174.38 | 2,921.00 | Top of "G" Sand | | | | |
| 3,285.33 | 3,021.00 | Base of "G" Sand | | | | |
| 5,818.24 | 5,371.00 | Mesaverde | | | | |
| 6,887.42 | 6,439.00 | Approx. Top Gas | | | | |
| 8,628.42 | 8,180.00 | Cameo Coals | | | | |
| 9,329.42 | 8,881.00 | Coal D | | | | |
| 9,487.42 | 9,039.00 | Rollins SS | | | | |
| 9,637.42 | 9,189.00 | TD | | | | |

| 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 3.50 | |
| 853.46 | 829.17 | -81.49 | 139.53 | Hold 25.67° Inc, 120.29° Az | |
| 4,576.00 | 4,184.28 | -894.74 | 1,532.08 | Start Drop -1.50°/100 | |
| 6,287.42 | 5,839.00 | -1,084.87 | 1,857.65 | Vertical | |
| 6,887.42 | 6,439.00 | -1,084.87 | 1,857.65 | Top Gas | |
| 9,637.42 | 9,189.00 | -1,084.87 | 1,857.65 | TD at 9637.42 | |