



PICEANCE HL NAD 83

RG 26-01S-098W

RGU 42-26-198

RGU 43-26-198 - Slot A5

Wellbore #1

Plan: Design #1 24Jan13 kjs

Standard Planning Report - Geographic

09 April, 2013



WPX Energy
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RGU 43-26-198 - Slot A5 |
| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 43-26-198 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 24Jan13 kjs | | |

| | | | |
|--------------------|---------------------------------------|----------------------|----------------|
| Project | RG 26-01S-098W, Rio Blanco County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | |
|------------------------------|---------------|---------------------|-------------------|------------------------------------|
| Site | RGU 42-26-198 | | | |
| Site Position: | | Northing: | 1,778,121.90 usft | Latitude: 39.93524 |
| From: Map | | Easting: | 2,199,615.70 usft | Longitude: -108.35451 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.8003 ° |

| | | | | |
|-----------------------------|-------------------------|-----------|----------------------------|-------------------|
| Well | RGU 43-26-198 - Slot A5 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,778,079.10 usft |
| | +E/-W | 0.00 usft | Easting: | 2,199,598.60 usft |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | |
| | | | Ground Level: | 6,622.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 1/24/2013 | 10.3617 | 65.9893 | 52,274 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #1 24Jan13 kjs | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 144.89 |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|-----------------------|
| 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 | 0.0000 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | |
| 403.14 | 3.80 | 144.89 | 402.95 | -6.86 | 4.82 | 1.50 | 1.50 | 0.00 | 144.8920 | |
| 7,345.47 | 3.80 | 144.89 | 7,330.05 | -382.96 | 269.23 | 0.00 | 0.00 | 0.00 | 0.0000 | |
| 7,598.61 | 0.00 | 0.00 | 7,583.00 | -389.82 | 274.05 | 1.50 | -1.50 | 0.00 | 180.0000 | |
| 7,698.61 | 0.00 | 0.00 | 7,683.00 | -389.82 | 274.05 | 0.00 | 0.00 | 0.00 | 0.0000 | Mesaverde (25' Radius |
| 12,558.61 | 0.00 | 0.00 | 12,543.00 | -389.82 | 274.05 | 0.00 | 0.00 | 0.00 | 0.0000 | |



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| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 43-26-198 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 24Jan13 kjs | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|----------|------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | 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 | 1,778,079.10 | 2,199,598.60 | 39.93512 | -108.35457 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 1,778,079.10 | 2,199,598.60 | 39.93512 | -108.35457 | |
| Start Build 1.50 | | | | | | | | | | |
| 403.14 | 3.80 | 144.89 | 402.95 | -6.86 | 4.82 | 1,778,072.09 | 2,199,603.20 | 39.93510 | -108.35455 | |
| Hold 3.80 Inclination | | | | | | | | | | |
| 500.00 | 3.80 | 144.89 | 499.60 | -12.11 | 8.51 | 1,778,066.73 | 2,199,606.73 | 39.93509 | -108.35454 | |
| 1,000.00 | 3.80 | 144.89 | 998.50 | -39.19 | 27.55 | 1,778,039.06 | 2,199,624.91 | 39.93501 | -108.35447 | |
| 1,230.00 | 3.80 | 144.89 | 1,228.00 | -51.65 | 36.31 | 1,778,026.33 | 2,199,633.27 | 39.93498 | -108.35444 | |
| Green River Fm | | | | | | | | | | |
| 1,410.40 | 3.80 | 144.89 | 1,408.00 | -61.43 | 43.19 | 1,778,016.35 | 2,199,639.83 | 39.93495 | -108.35441 | |
| A Groove | | | | | | | | | | |
| 1,500.00 | 3.80 | 144.89 | 1,497.41 | -66.28 | 46.60 | 1,778,011.39 | 2,199,643.09 | 39.93494 | -108.35440 | |
| 1,615.85 | 3.80 | 144.89 | 1,613.00 | -72.56 | 51.01 | 1,778,004.97 | 2,199,647.30 | 39.93492 | -108.35438 | |
| B Groove | | | | | | | | | | |
| 1,901.47 | 3.80 | 144.89 | 1,898.00 | -88.03 | 61.89 | 1,777,989.17 | 2,199,657.69 | 39.93488 | -108.35435 | |
| Dissolution Surface | | | | | | | | | | |
| 2,000.00 | 3.80 | 144.89 | 1,996.31 | -93.37 | 65.64 | 1,777,983.71 | 2,199,661.27 | 39.93486 | -108.35433 | |
| 2,500.00 | 3.80 | 144.89 | 2,495.21 | -120.46 | 84.68 | 1,777,956.04 | 2,199,679.46 | 39.93479 | -108.35426 | |
| 2,983.85 | 3.80 | 144.89 | 2,978.00 | -146.67 | 103.11 | 1,777,929.26 | 2,199,697.05 | 39.93472 | -108.35420 | |
| Garden Gulch | | | | | | | | | | |
| 3,000.00 | 3.80 | 144.89 | 2,994.11 | -147.54 | 103.73 | 1,777,928.37 | 2,199,697.64 | 39.93471 | -108.35420 | |
| 3,164.25 | 3.80 | 144.89 | 3,158.00 | -156.44 | 109.98 | 1,777,919.28 | 2,199,703.61 | 39.93469 | -108.35417 | |
| Orange Marker | | | | | | | | | | |
| 3,379.72 | 3.80 | 144.89 | 3,373.00 | -168.12 | 118.19 | 1,777,907.35 | 2,199,711.45 | 39.93466 | -108.35415 | |
| Wasatch | | | | | | | | | | |
| 3,500.00 | 3.80 | 144.89 | 3,493.02 | -174.63 | 122.77 | 1,777,900.70 | 2,199,715.82 | 39.93464 | -108.35413 | |
| 3,880.82 | 3.80 | 144.89 | 3,873.00 | -195.26 | 137.27 | 1,777,879.62 | 2,199,729.67 | 39.93458 | -108.35408 | |
| 9 5/8" | | | | | | | | | | |
| 4,000.00 | 3.80 | 144.89 | 3,991.92 | -201.72 | 141.81 | 1,777,873.02 | 2,199,734.01 | 39.93457 | -108.35406 | |
| 4,500.00 | 3.80 | 144.89 | 4,490.82 | -228.81 | 160.86 | 1,777,845.35 | 2,199,752.19 | 39.93449 | -108.35399 | |
| 5,000.00 | 3.80 | 144.89 | 4,989.72 | -255.90 | 179.90 | 1,777,817.68 | 2,199,770.37 | 39.93442 | -108.35393 | |
| 5,500.00 | 3.80 | 144.89 | 5,488.63 | -282.98 | 198.94 | 1,777,790.01 | 2,199,788.55 | 39.93434 | -108.35386 | |
| 5,674.76 | 3.80 | 144.89 | 5,663.00 | -292.45 | 205.60 | 1,777,780.33 | 2,199,794.91 | 39.93432 | -108.35383 | |
| Top of "G" Sand | | | | | | | | | | |
| 6,000.00 | 3.80 | 144.89 | 5,987.53 | -310.07 | 217.99 | 1,777,762.33 | 2,199,806.74 | 39.93427 | -108.35379 | |
| 6,030.54 | 3.80 | 144.89 | 6,018.00 | -311.72 | 219.15 | 1,777,760.64 | 2,199,807.85 | 39.93426 | -108.35379 | |
| Fort Union | | | | | | | | | | |
| 6,500.00 | 3.80 | 144.89 | 6,486.43 | -337.16 | 237.03 | 1,777,734.66 | 2,199,824.92 | 39.93419 | -108.35372 | |
| 7,000.00 | 3.80 | 144.89 | 6,985.33 | -364.25 | 256.07 | 1,777,706.99 | 2,199,843.10 | 39.93412 | -108.35365 | |
| 7,345.47 | 3.80 | 144.89 | 7,330.05 | -382.96 | 269.23 | 1,777,687.87 | 2,199,855.66 | 39.93407 | -108.35361 | |
| Start Drop -1.50 | | | | | | | | | | |
| 7,428.55 | 2.55 | 144.89 | 7,413.00 | -386.72 | 271.88 | 1,777,684.02 | 2,199,858.19 | 39.93406 | -108.35360 | |
| Ohio Creek | | | | | | | | | | |
| 7,500.00 | 1.48 | 144.89 | 7,484.40 | -388.78 | 273.32 | 1,777,681.93 | 2,199,859.57 | 39.93405 | -108.35359 | |
| 7,598.61 | 0.00 | 0.00 | 7,583.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 | |
| Vertical | | | | | | | | | | |
| 7,698.61 | 0.00 | 0.00 | 7,683.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 | |
| Mesaverde - Mesaverde | | | | | | | | | | |
| 8,000.00 | 0.00 | 0.00 | 7,984.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 | |
| 8,500.00 | 0.00 | 0.00 | 8,484.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 | |
| 9,000.00 | 0.00 | 0.00 | 8,984.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 | |



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| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 43-26-198 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 24Jan13 kjs | | |

| Planned Survey | | | | | | | | | |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|----------|------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 9,178.61 | 0.00 | 0.00 | 9,163.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Approx. Top Gas | | | | | | | | | |
| 9,500.00 | 0.00 | 0.00 | 9,484.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 10,000.00 | 0.00 | 0.00 | 9,984.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 10,500.00 | 0.00 | 0.00 | 10,484.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 10,773.61 | 0.00 | 0.00 | 10,758.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Cameo Coals | | | | | | | | | |
| 11,000.00 | 0.00 | 0.00 | 10,984.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 11,338.61 | 0.00 | 0.00 | 11,323.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Rollins SS | | | | | | | | | |
| 11,478.61 | 0.00 | 0.00 | 11,463.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Cozzette | | | | | | | | | |
| 11,500.00 | 0.00 | 0.00 | 11,484.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 11,693.61 | 0.00 | 0.00 | 11,678.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Corcoran | | | | | | | | | |
| 12,000.00 | 0.00 | 0.00 | 11,984.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 12,063.61 | 0.00 | 0.00 | 12,048.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Upper Sego | | | | | | | | | |
| 12,308.61 | 0.00 | 0.00 | 12,293.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| Lower Sego | | | | | | | | | |
| 12,500.00 | 0.00 | 0.00 | 12,484.39 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| 12,558.61 | 0.00 | 0.00 | 12,543.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |
| TD at 12558.61 - TD | | | | | | | | | |

| Design Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|----------|------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Mesaverde (25' Radius) - plan hits target center - Circle (radius 25.00) | 0.00 | 0.00 | 7,683.00 | -389.82 | 274.05 | 1,777,680.86 | 2,199,860.27 | 39.93405 | -108.35359 |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 3,880.82 | 3,873.00 | 9 5/8" | 9.625 | 13.500 | |



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| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB) kjs) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 43-26-198 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 24Jan13 kjs | | |

| Formations | | | | | | |
|-----------------------|-----------------------|---------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 1,230.00 | 1,228.00 | Green River Fm | | | | |
| 1,410.40 | 1,408.00 | A Groove | | | | |
| 1,615.85 | 1,613.00 | B Groove | | | | |
| 1,901.47 | 1,898.00 | Dissolution Surface | | | | |
| 2,983.85 | 2,978.00 | Garden Gulch | | | | |
| 3,164.25 | 3,158.00 | Orange Marker | | | | |
| 3,379.72 | 3,373.00 | Wasatch | | | | |
| 5,674.76 | 5,663.00 | Top of "G" Sand | | | | |
| 6,030.54 | 6,018.00 | Fort Union | | | | |
| 7,428.55 | 7,413.00 | Ohio Creek | | | | |
| 7,698.61 | 7,683.00 | Mesaverde | | | | |
| 9,178.61 | 9,163.00 | Approx. Top Gas | | | | |
| 10,773.61 | 10,758.00 | Cameo Coals | | | | |
| 11,338.61 | 11,323.00 | Rollins SS | | | | |
| 11,478.61 | 11,463.00 | Cozzette | | | | |
| 11,693.61 | 11,678.00 | Corcoran | | | | |
| 12,063.61 | 12,048.00 | Upper Sego | | | | |
| 12,308.61 | 12,293.00 | Lower Sego | | | | |
| 12,558.61 | 12,543.00 | TD | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|-----------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 150.00 | 150.00 | 0.00 | 0.00 | Start Build 1.50 | |
| 403.14 | 402.95 | -6.86 | 4.82 | Hold 3.80 Inclination | |
| 7,345.47 | 7,330.05 | -382.96 | 269.23 | Start Drop -1.50 | |
| 7,598.61 | 7,583.00 | -389.82 | 274.05 | Vertical | |
| 7,698.61 | 7,683.00 | -389.82 | 274.05 | Mesaverde | |
| 12,558.61 | 12,543.00 | -389.82 | 274.05 | TD at 12558.61 | |