



PICEANCE HL NAD 83

RG 26-01S-098W

RGU 42-26-198

RGU 333-26-198 - Slot B4

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 333-26-198 - Slot B4 |
| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 333-26-198 | 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 333-26-198 - Slot B4 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,778,078.50 usft |
| | +E/-W | 0.00 usft | Easting: | 2,199,586.10 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 | 65.9892 | 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 | 227.85 |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|----------------------|
| 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 | |
| 140.00 | 0.00 | 0.00 | 140.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0000 | |
| 313.33 | 5.20 | 227.85 | 313.10 | -5.27 | -5.83 | 3.00 | 3.00 | 0.00 | 227.8500 | |
| 3,513.41 | 5.20 | 227.85 | 3,500.00 | -199.91 | -220.85 | 0.00 | 0.00 | 0.00 | 0.0000 | |
| 4,159.70 | 18.13 | 227.85 | 4,131.60 | -287.39 | -317.52 | 2.00 | 2.00 | 0.00 | 0.0000 | |
| 6,451.49 | 18.13 | 227.85 | 6,309.67 | -765.81 | -846.16 | 0.00 | 0.00 | 0.00 | 0.0000 | |
| 7,659.88 | 0.00 | 0.00 | 7,498.00 | -893.00 | -986.70 | 1.50 | -1.50 | 0.00 | 180.0000 | |
| 7,759.88 | 0.00 | 0.00 | 7,598.00 | -893.00 | -986.70 | 0.00 | 0.00 | 0.00 | 0.0000 | Mesaverde (25' Radiu |
| 12,599.88 | 0.00 | 0.00 | 12,438.00 | -893.00 | -986.70 | 0.00 | 0.00 | 0.00 | 0.0000 | |



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| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RGU 333-26-198 - Slot B4 |
| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 333-26-198 | 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 | 1,778,078.50 | 2,199,586.10 | 39.93512 | -108.35461 | |
| 140.00 | 0.00 | 0.00 | 140.00 | 0.00 | 0.00 | 1,778,078.50 | 2,199,586.10 | 39.93512 | -108.35461 | |
| Start Build 3.00 | | | | | | | | | | |
| 313.33 | 5.20 | 227.85 | 313.10 | -5.27 | -5.83 | 1,778,073.41 | 2,199,580.11 | 39.93510 | -108.35463 | |
| Hold 5.20 Inc, 227.85° azi | | | | | | | | | | |
| 500.00 | 5.20 | 227.85 | 498.99 | -16.63 | -18.37 | 1,778,062.46 | 2,199,567.22 | 39.93507 | -108.35468 | |
| 1,000.00 | 5.20 | 227.85 | 996.94 | -47.04 | -51.97 | 1,778,033.12 | 2,199,532.68 | 39.93499 | -108.35480 | |
| 1,232.02 | 5.20 | 227.85 | 1,228.00 | -61.15 | -67.56 | 1,778,019.50 | 2,199,516.65 | 39.93495 | -108.35485 | |
| Green River Fm | | | | | | | | | | |
| 1,412.76 | 5.20 | 227.85 | 1,408.00 | -72.14 | -79.70 | 1,778,008.90 | 2,199,504.17 | 39.93492 | -108.35490 | |
| A Groove | | | | | | | | | | |
| 1,500.00 | 5.20 | 227.85 | 1,494.88 | -77.45 | -85.56 | 1,778,003.78 | 2,199,498.14 | 39.93490 | -108.35492 | |
| 1,618.61 | 5.20 | 227.85 | 1,613.00 | -84.66 | -93.53 | 1,777,996.82 | 2,199,489.95 | 39.93488 | -108.35494 | |
| B Groove | | | | | | | | | | |
| 1,904.79 | 5.20 | 227.85 | 1,898.00 | -102.07 | -112.76 | 1,777,980.02 | 2,199,470.18 | 39.93484 | -108.35501 | |
| Dissolution Surface | | | | | | | | | | |
| 2,000.00 | 5.20 | 227.85 | 1,992.82 | -107.86 | -119.16 | 1,777,974.44 | 2,199,463.61 | 39.93482 | -108.35504 | |
| 2,500.00 | 5.20 | 227.85 | 2,490.76 | -138.27 | -152.76 | 1,777,945.10 | 2,199,429.07 | 39.93474 | -108.35516 | |
| 2,989.25 | 5.20 | 227.85 | 2,978.00 | -168.03 | -185.63 | 1,777,916.39 | 2,199,395.28 | 39.93466 | -108.35527 | |
| Garden Gulch | | | | | | | | | | |
| 3,000.00 | 5.20 | 227.85 | 2,988.70 | -168.68 | -186.36 | 1,777,915.76 | 2,199,394.54 | 39.93465 | -108.35528 | |
| 3,164.97 | 5.20 | 227.85 | 3,153.00 | -178.71 | -197.44 | 1,777,906.08 | 2,199,383.14 | 39.93463 | -108.35532 | |
| Orange Marker | | | | | | | | | | |
| 3,380.86 | 5.20 | 227.85 | 3,368.00 | -191.85 | -211.95 | 1,777,893.41 | 2,199,368.23 | 39.93459 | -108.35537 | |
| Wasatch | | | | | | | | | | |
| 3,500.00 | 5.20 | 227.85 | 3,486.65 | -199.09 | -219.95 | 1,777,886.42 | 2,199,360.00 | 39.93457 | -108.35540 | |
| 3,513.41 | 5.20 | 227.85 | 3,500.00 | -199.91 | -220.85 | 1,777,885.63 | 2,199,359.07 | 39.93457 | -108.35540 | |
| Start Build 2.00 | | | | | | | | | | |
| 3,886.18 | 12.66 | 227.85 | 3,868.00 | -238.70 | -263.71 | 1,777,848.20 | 2,199,315.02 | 39.93446 | -108.35555 | |
| 9 5/8" | | | | | | | | | | |
| 4,000.00 | 14.93 | 227.85 | 3,978.53 | -256.91 | -283.83 | 1,777,830.63 | 2,199,294.34 | 39.93441 | -108.35562 | |
| 4,159.70 | 18.13 | 227.85 | 4,131.60 | -287.39 | -317.52 | 1,777,801.23 | 2,199,259.71 | 39.93433 | -108.35574 | |
| Hold 18.13 Inclination | | | | | | | | | | |
| 4,500.00 | 18.13 | 227.85 | 4,455.02 | -358.43 | -396.01 | 1,777,732.69 | 2,199,179.02 | 39.93413 | -108.35602 | |
| 5,000.00 | 18.13 | 227.85 | 4,930.21 | -462.81 | -511.35 | 1,777,631.99 | 2,199,060.47 | 39.93385 | -108.35643 | |
| 5,500.00 | 18.13 | 227.85 | 5,405.40 | -567.18 | -626.68 | 1,777,531.28 | 2,198,941.91 | 39.93356 | -108.35685 | |
| 5,718.44 | 18.13 | 227.85 | 5,613.00 | -612.79 | -677.07 | 1,777,487.29 | 2,198,890.11 | 39.93343 | -108.35703 | |
| Top of "G" Sand | | | | | | | | | | |
| 6,000.00 | 18.13 | 227.85 | 5,880.58 | -671.56 | -742.01 | 1,777,430.58 | 2,198,823.35 | 39.93327 | -108.35726 | |
| 6,086.72 | 18.13 | 227.85 | 5,963.00 | -689.67 | -762.01 | 1,777,413.12 | 2,198,802.79 | 39.93322 | -108.35733 | |
| Fort Union | | | | | | | | | | |
| 6,451.49 | 18.13 | 227.85 | 6,309.67 | -765.81 | -846.16 | 1,777,339.65 | 2,198,716.30 | 39.93301 | -108.35763 | |
| Start Drop -1.50 | | | | | | | | | | |
| 6,500.00 | 17.40 | 227.85 | 6,355.87 | -775.74 | -857.13 | 1,777,330.07 | 2,198,705.02 | 39.93299 | -108.35767 | |
| 7,000.00 | 9.90 | 227.85 | 6,841.40 | -854.85 | -944.54 | 1,777,253.74 | 2,198,615.17 | 39.93277 | -108.35798 | |
| 7,494.82 | 2.48 | 227.85 | 7,333.00 | -890.61 | -984.05 | 1,777,219.24 | 2,198,574.55 | 39.93267 | -108.35812 | |
| Ohio Creek | | | | | | | | | | |
| 7,500.00 | 2.40 | 227.85 | 7,338.17 | -890.76 | -984.22 | 1,777,219.10 | 2,198,574.38 | 39.93267 | -108.35812 | |
| 7,659.88 | 0.00 | 0.00 | 7,498.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 | |
| Vertical | | | | | | | | | | |

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| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 333-26-198 | 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 |
| 7,759.88 | 0.00 | 0.00 | 7,598.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Mesaverde - Mesaverde | | | | | | | | | |
| 8,000.00 | 0.00 | 0.00 | 7,838.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 8,500.00 | 0.00 | 0.00 | 8,338.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 9,000.00 | 0.00 | 0.00 | 8,838.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 9,224.88 | 0.00 | 0.00 | 9,063.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Approx. Top Gas | | | | | | | | | |
| 9,500.00 | 0.00 | 0.00 | 9,338.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 10,000.00 | 0.00 | 0.00 | 9,838.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 10,500.00 | 0.00 | 0.00 | 10,338.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 10,799.88 | 0.00 | 0.00 | 10,638.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Cameo Coals | | | | | | | | | |
| 11,000.00 | 0.00 | 0.00 | 10,838.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 11,379.88 | 0.00 | 0.00 | 11,218.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Rollins SS | | | | | | | | | |
| 11,500.00 | 0.00 | 0.00 | 11,338.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 11,514.88 | 0.00 | 0.00 | 11,353.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Cozzette | | | | | | | | | |
| 11,729.88 | 0.00 | 0.00 | 11,568.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Corcoran | | | | | | | | | |
| 12,000.00 | 0.00 | 0.00 | 11,838.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 12,104.88 | 0.00 | 0.00 | 11,943.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Upper Sego | | | | | | | | | |
| 12,349.88 | 0.00 | 0.00 | 12,188.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| Lower Sego | | | | | | | | | |
| 12,500.00 | 0.00 | 0.00 | 12,338.12 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| 12,599.87 | 0.00 | 0.00 | 12,437.99 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| TD | | | | | | | | | |
| 12,599.88 | 0.00 | 0.00 | 12,438.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| TD at 12599.88 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|----------|------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Mesaverde (25' Radius) | 0.00 | 0.00 | 7,598.00 | -893.00 | -986.70 | 1,777,216.94 | 2,198,571.83 | 39.93267 | -108.35813 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 25.00) | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 3,886.18 | 3,868.00 | 9 5/8" | 9.625 | 13.500 | |



WPX Energy
Planning Report - Geographic

| | | | |
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| Company: | PICEANCE HL NAD 83 | TVD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Project: | RG 26-01S-098W | MD Reference: | KELLY BUSHING @ 6643.00usft (Cyclone 29 (21' RKB)) |
| Site: | RGU 42-26-198 | North Reference: | True |
| Well: | RGU 333-26-198 | 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 (°) | |
| 1,232.02 | 1,228.00 | Green River Fm | | | | |
| 1,412.76 | 1,408.00 | A Groove | | | | |
| 1,618.61 | 1,613.00 | B Groove | | | | |
| 1,904.79 | 1,898.00 | Dissolution Surface | | | | |
| 2,989.25 | 2,978.00 | Garden Gulch | | | | |
| 3,164.97 | 3,153.00 | Orange Marker | | | | |
| 3,380.86 | 3,368.00 | Wasatch | | | | |
| 5,718.44 | 5,613.00 | Top of "G" Sand | | | | |
| 6,086.72 | 5,963.00 | Fort Union | | | | |
| 7,494.82 | 7,333.00 | Ohio Creek | | | | |
| 7,759.88 | 7,598.00 | Mesaverde | | | | |
| 9,224.88 | 9,063.00 | Approx. Top Gas | | | | |
| 10,799.88 | 10,638.00 | Cameo Coals | | | | |
| 11,379.88 | 11,218.00 | Rollins SS | | | | |
| 11,514.88 | 11,353.00 | Cozzette | | | | |
| 11,729.88 | 11,568.00 | Corcoran | | | | |
| 12,104.88 | 11,943.00 | Upper Sego | | | | |
| 12,349.88 | 12,188.00 | Lower Sego | | | | |
| 12,599.87 | 12,437.99 | TD | | 0.0000 | | |

| Plan Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 140.00 | 140.00 | 0.00 | 0.00 | Start Build 3.00 |
| 313.33 | 313.10 | -5.27 | -5.83 | Hold 5.20 Inc, 227.85° azi |
| 3,513.41 | 3,500.00 | -199.91 | -220.85 | Start Build 2.00 |
| 4,159.70 | 4,131.60 | -287.39 | -317.52 | Hold 18.13 Inclination |
| 6,451.49 | 6,309.67 | -765.81 | -846.16 | Start Drop -1.50 |
| 7,659.88 | 7,498.00 | -893.00 | -986.70 | Vertical |
| 7,759.88 | 7,598.00 | -893.00 | -986.70 | Mesaverde |
| 12,599.88 | 12,438.00 | -893.00 | -986.70 | TD at 12599.88 |