



PICEANCE VLY NAD 83

PA 21-06S-095W

PA 22-21 Pad

PA 441-21 - Slot 2A3

Wellbore #1

Plan: Design #2 07Nov12 kjs

Standard Planning Report - Geographic

13 March, 2013



WPX Energy
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well PA 441-21 - Slot 2A3 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 6056.00usft (Nabors 26') |
| Project: | PA 21-06S-095W | MD Reference: | KELLY BUSHING @ 6056.00usft (Nabors 26') |
| Site: | PA 22-21 Pad | North Reference: | True |
| Well: | PA 441-21 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 07Nov12 kjs | | |

| | | | |
|--------------------|--|----------------------|-----------------------------|
| Project | PA 21-06S-095W, Garfield County, CO, 21-06S-095W | | |
| 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 | PA 22-21 Pad | | | |
| Site Position: | | Northing: | 1,620,701.00 usft | Latitude: 39.51079 |
| From: Map | | Easting: | 2,292,437.50 usft | Longitude: -108.00815 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.58 ° |

| | | | | |
|-----------------------------|----------------------|-----------|----------------------------|-------------------|
| Well | PA 441-21 - Slot 2A3 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,620,599.50 usft |
| | +E/-W | 0.00 usft | Easting: | 2,292,494.50 usft |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | |
| | | | Ground Level: | 6,030.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/6/2012 | 10.23 | 65.72 | 52,157 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #2 07Nov12 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 | 65.21 |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|----------------------|
| 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 | 0.00 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,467.77 | 40.43 | 65.21 | 1,358.65 | 191.26 | 414.10 | 3.00 | 3.00 | 0.00 | 65.21 | |
| 5,602.13 | 40.43 | 65.21 | 4,505.59 | 1,315.59 | 2,848.38 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,912.59 | 0.00 | 0.00 | 6,629.00 | 1,643.47 | 3,558.27 | 1.75 | -1.75 | 0.00 | 180.00 | |
| 8,012.59 | 0.00 | 0.00 | 6,729.00 | 1,643.47 | 3,558.27 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (25' Radius) |
| 10,112.59 | 0.00 | 0.00 | 8,829.00 | 1,643.47 | 3,558.27 | 0.00 | 0.00 | 0.00 | 0.00 | |



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| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 6056.00usft (Nabors 26') |
| Project: | PA 21-06S-095W | MD Reference: | KELLY BUSHING @ 6056.00usft (Nabors 26') |
| Site: | PA 22-21 Pad | North Reference: | True |
| Well: | PA 441-21 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 07Nov12 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 | 1,620,599.50 | 2,292,494.50 | 39.51051 | -108.00794 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 1,620,599.50 | 2,292,494.50 | 39.51051 | -108.00794 | |
| Start Build 3.00 | | | | | | | | | | |
| 500.00 | 11.40 | 65.21 | 497.50 | 15.80 | 34.21 | 1,620,614.34 | 2,292,529.13 | 39.51056 | -108.00782 | |
| 1,000.00 | 26.40 | 65.21 | 969.19 | 83.52 | 180.82 | 1,620,677.99 | 2,292,677.55 | 39.51074 | -108.00730 | |
| 1,467.77 | 40.43 | 65.21 | 1,358.65 | 191.26 | 414.10 | 1,620,779.25 | 2,292,913.71 | 39.51104 | -108.00647 | |
| Hold 40.43 Inclination | | | | | | | | | | |
| 1,500.00 | 40.43 | 65.21 | 1,383.19 | 200.03 | 433.08 | 1,620,787.49 | 2,292,932.92 | 39.51106 | -108.00641 | |
| 1,568.00 | 40.43 | 65.21 | 1,434.95 | 218.52 | 473.12 | 1,620,804.87 | 2,292,973.46 | 39.51111 | -108.00626 | |
| 9 5/8" | | | | | | | | | | |
| 2,000.00 | 40.43 | 65.21 | 1,763.77 | 336.00 | 727.48 | 1,620,915.28 | 2,293,230.95 | 39.51144 | -108.00536 | |
| 2,500.00 | 40.43 | 65.21 | 2,144.36 | 471.98 | 1,021.87 | 1,621,043.07 | 2,293,528.97 | 39.51181 | -108.00432 | |
| 3,000.00 | 40.43 | 65.21 | 2,524.94 | 607.95 | 1,316.27 | 1,621,170.86 | 2,293,827.00 | 39.51218 | -108.00328 | |
| 3,478.30 | 40.43 | 65.21 | 2,889.00 | 738.02 | 1,597.88 | 1,621,293.10 | 2,294,112.08 | 39.51254 | -108.00228 | |
| Top of "G" Sand | | | | | | | | | | |
| 3,500.00 | 40.43 | 65.21 | 2,905.52 | 743.92 | 1,610.66 | 1,621,298.65 | 2,294,125.02 | 39.51256 | -108.00223 | |
| 3,609.67 | 40.43 | 65.21 | 2,989.00 | 773.75 | 1,675.24 | 1,621,326.68 | 2,294,190.39 | 39.51264 | -108.00200 | |
| Base of "G" Sand | | | | | | | | | | |
| 4,000.00 | 40.43 | 65.21 | 3,286.10 | 879.90 | 1,905.06 | 1,621,426.44 | 2,294,423.04 | 39.51293 | -108.00119 | |
| 4,500.00 | 40.43 | 65.21 | 3,666.69 | 1,015.87 | 2,199.45 | 1,621,554.23 | 2,294,721.07 | 39.51330 | -108.00015 | |
| 5,000.00 | 40.43 | 65.21 | 4,047.27 | 1,151.84 | 2,493.85 | 1,621,682.02 | 2,295,019.09 | 39.51368 | -107.99910 | |
| 5,500.00 | 40.43 | 65.21 | 4,427.85 | 1,287.82 | 2,788.24 | 1,621,809.81 | 2,295,317.12 | 39.51405 | -107.99806 | |
| 5,602.13 | 40.43 | 65.21 | 4,505.59 | 1,315.59 | 2,848.38 | 1,621,835.92 | 2,295,377.99 | 39.51413 | -107.99785 | |
| Start Drop -1.75 | | | | | | | | | | |
| 6,000.00 | 33.47 | 65.21 | 4,823.35 | 1,415.82 | 3,065.37 | 1,621,930.11 | 2,295,597.67 | 39.51440 | -107.99708 | |
| 6,421.59 | 26.09 | 65.21 | 5,189.00 | 1,503.56 | 3,255.34 | 1,622,012.57 | 2,295,789.98 | 39.51464 | -107.99640 | |
| Mesaverde | | | | | | | | | | |
| 6,500.00 | 24.72 | 65.21 | 5,259.83 | 1,517.67 | 3,285.89 | 1,622,025.83 | 2,295,820.90 | 39.51468 | -107.99629 | |
| 7,000.00 | 15.97 | 65.21 | 5,728.18 | 1,590.49 | 3,443.55 | 1,622,094.27 | 2,295,980.51 | 39.51488 | -107.99574 | |
| 7,500.00 | 7.22 | 65.21 | 6,217.50 | 1,632.59 | 3,534.70 | 1,622,133.83 | 2,296,072.78 | 39.51500 | -107.99541 | |
| 7,912.59 | 0.00 | 0.00 | 6,629.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| Vertical | | | | | | | | | | |
| 8,000.00 | 0.00 | 0.00 | 6,716.41 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| 8,012.59 | 0.00 | 0.00 | 6,729.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 8,500.00 | 0.00 | 0.00 | 7,216.41 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| 9,000.00 | 0.00 | 0.00 | 7,716.41 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| 9,232.59 | 0.00 | 0.00 | 7,949.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| Cameo Coals | | | | | | | | | | |
| 9,500.00 | 0.00 | 0.00 | 8,216.41 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| 10,000.00 | 0.00 | 0.00 | 8,716.41 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| 10,012.59 | 0.00 | 0.00 | 8,729.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| Rollins SS | | | | | | | | | | |
| 10,112.59 | 0.00 | 0.00 | 8,829.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 | |
| TD at 10112.59 - TD | | | | | | | | | | |



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| Project: | PA 21-06S-095W | MD Reference: | KELLY BUSHING @ 6056.00usft (Nabors 26') |
| Site: | PA 22-21 Pad | North Reference: | True |
| Well: | PA 441-21 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #2 07Nov12 kjs | | |

| 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 |
| Top Gas (25' Radius) P/ - plan hits target center - Circle (radius 25.00) | 0.00 | 0.00 | 6,729.00 | 1,643.47 | 3,558.27 | 1,622,144.07 | 2,296,096.64 | 39.51503 | -107.99533 |

| Casing Points | | | | | |
|-----------------------------|-----------------------------|--------|----------------------------|--------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 1,568.00 | 1,434.95 | 9 5/8" | 9.625 | 13.500 | |

| Formations | | | | | | |
|-----------------------------|-----------------------------|------------------|-----------|------------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,478.30 | 2,889.00 | Top of "G" Sand | | | | |
| 3,609.67 | 2,989.00 | Base of "G" Sand | | | | |
| 6,421.59 | 5,189.00 | Mesaverde | | | | |
| 8,012.59 | 6,729.00 | Approx. Top Gas | | | | |
| 9,232.59 | 7,949.00 | Cameo Coals | | | | |
| 10,012.59 | 8,729.00 | Rollins SS | | | | |
| 10,112.59 | 8,829.00 | 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 3.00 | |
| 1,467.77 | 1,358.65 | 191.26 | 414.10 | Hold 40.43 Inclination | |
| 5,602.13 | 4,505.59 | 1,315.59 | 2,848.38 | Start Drop -1.75 | |
| 7,912.59 | 6,629.00 | 1,643.47 | 3,558.27 | Vertical | |
| 8,012.59 | 6,729.00 | 1,643.47 | 3,558.27 | Top Gas | |
| 10,112.59 | 8,829.00 | 1,643.47 | 3,558.27 | TD at 10112.59 | |