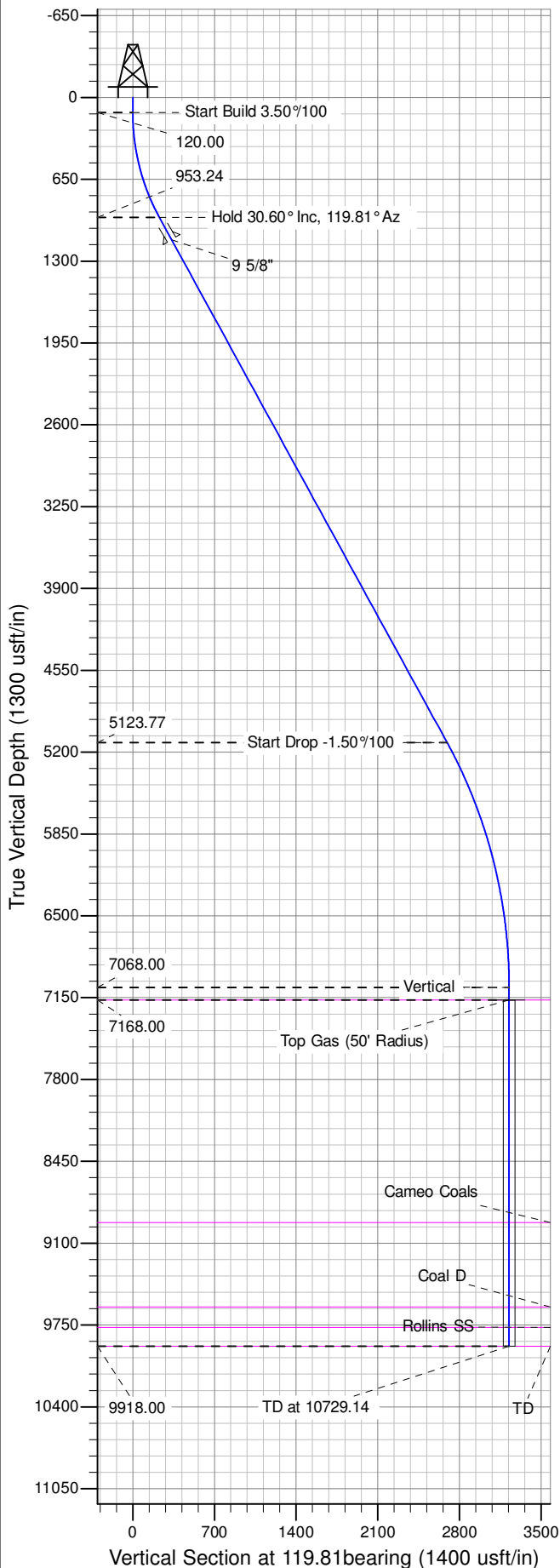
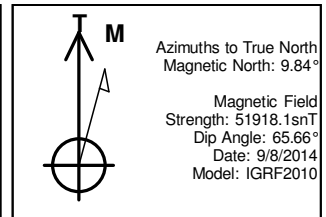
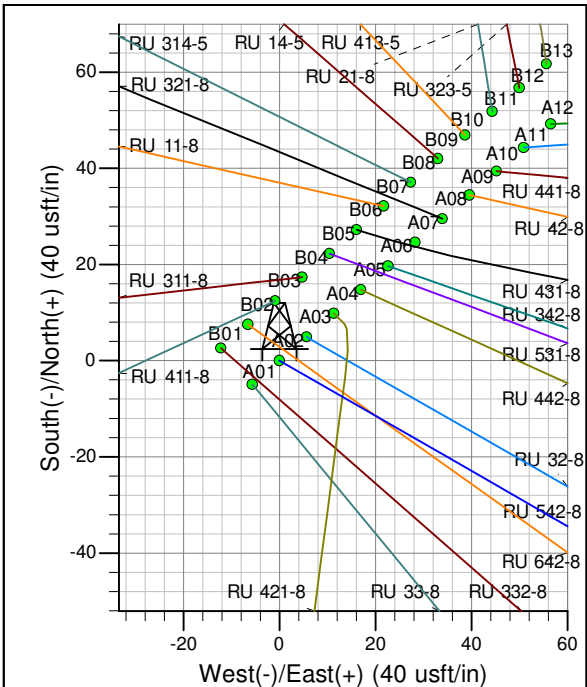
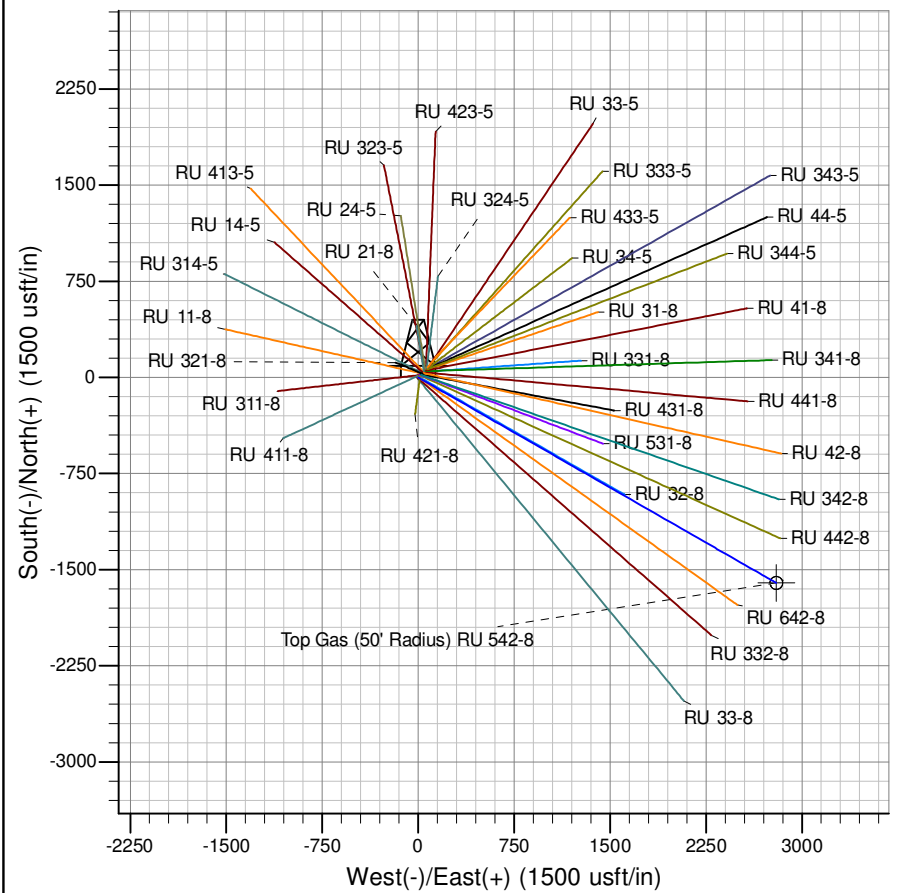




Well Name: RU 542-8  
Surface Location: RU 21-8 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7736.00  
+N/-S 0.00 +E/-W 0.00 Northing 1602631.21 Easting 2350463.14 Latitude 39.46541 Longitude -107.80093 Slot A02  
KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)



| ANNOTATIONS |          |       |        |          |         |         |           |                             |  |
|-------------|----------|-------|--------|----------|---------|---------|-----------|-----------------------------|--|
| TVD         | MD       | Inc   | Azi    | +N/-S    | +E/-W   | V Sect  | Departure | Annotation                  |  |
| 120.00      | 120.00   | 0.00  | 0.00   | 0.00     | 0.00    | 0.00    | 0.00      | Start Build 3.50%/100       |  |
| 953.24      | 994.20   | 30.60 | 119.81 | -113.29  | 197.78  | 227.93  | 227.93    | Hold 30.60° Inc, 119.81° Az |  |
| 5123.77     | 5839.33  | 30.60 | 119.81 | -1339.13 | 2337.70 | 2694.09 | 2694.09   | Start Drop -1.50%/100       |  |
| 7068.00     | 7879.14  | 0.00  | 0.00   | -1603.48 | 2799.18 | 3225.92 | 3225.92   | Vertical                    |  |
| 7168.00     | 7979.14  | 0.00  | 0.00   | -1603.48 | 2799.18 | 3225.92 | 3225.92   | Top Gas                     |  |
| 9918.00     | 10729.14 | 0.00  | 0.00   | -1603.48 | 2799.18 | 3225.92 | 3225.92   | TD at 10729.14              |  |



Azimuths to True North  
Magnetic North: 9.84°

Magnetic Field  
Strength: 51918.1snT  
Dip Angle: 65.66°  
Date: 9/8/2014  
Model: IGRF2010

Project: RU 08-07S-093W  
Site: RU 21-8 Pad  
Well: RU 542-8  
Design #1 08Sep14 mab

# **PICEANCE VLY NAD 83**

**RU 08-07S-093W**

**RU 21-8 Pad**

**RU 542-8 - Slot A02**

**Wellbore #1**

**Plan: Design #1 08Sep14 mab**

## **Standard Planning Report - Geographic**

**05 November, 2014**

**WPX**  
Planning Report - Geographic

|                  |                       |                                     |  |
|------------------|-----------------------|-------------------------------------|--|
| <b>Database:</b> | COMPASS-PICEANCE      | <b>Local Co-ordinate Reference:</b> | Well RU 542-8 - Slot A02                               |
| <b>Company:</b>  | PICEANCE VLY NAD 83   | <b>TVD Reference:</b>               | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Project:</b>  | RU 08-07S-093W        | <b>MD Reference:</b>                | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Site:</b>     | RU 21-8 Pad           | <b>North Reference:</b>             | True   |
| <b>Well:</b>     | RU 542-8              | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Wellbore:</b> | Wellbore #1           |                                     |  |
| <b>Design:</b>   | Design #1 08Sep14 mab |                                     |  |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | RU 08-07S-093W            |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | Colorado Central Zone     |                      |                |

|                              |             |                     |                   |                                  |
|------------------------------|-------------|---------------------|-------------------|----------------------------------|
| <b>Site</b>                  | RU 21-8 Pad |                     |                   |                                  |
| <b>Site Position:</b>        |             | <b>Northing:</b>    | 1,602,707.70 usft | <b>Latitude:</b> 39.46563        |
| <b>From:</b> Map             |             | <b>Easting:</b>     | 2,350,555.60 usft | <b>Longitude:</b> -107.80061     |
| <b>Position Uncertainty:</b> | 0.00 usft   | <b>Slot Radius:</b> | 13.200 in         | <b>Grid Convergence:</b> -1.45 ° |

|                             |                     |           |                            |                   |
|-----------------------------|---------------------|-----------|----------------------------|-------------------|
| <b>Well</b>                 | RU 542-8 - Slot A02 |           |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>        | 0.00 usft | <b>Northing:</b>           | 1,602,631.21 usft |
|                             | <b>+E/-W</b>        | 0.00 usft | <b>Easting:</b>            | 2,350,463.14 usft |
| <b>Position Uncertainty</b> | 0.00 usft           |           | <b>Wellhead Elevation:</b> | 0.00 usft         |
|                             |                     |           | <b>Ground Level:</b>       | 7,736.00 usft     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 9/8/2014           | 9.84                   | 65.66                | 51,918                     |

|                          |                                |                     |                      |                            |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| <b>Design</b>            | Design #1 08Sep14 mab          |                     |                      |                            |
| <b>Audit Notes:</b>      |                                |                     |                      |                            |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                       |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (bearing)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 119.81                     |

| <b>Plan Sections</b>  |                 |                   |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| 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    |                      |
| 994.20                | 30.60           | 119.81            | 953.24                | -113.29      | 197.78       | 3.50                    | 3.50                   | 0.00                  | 119.81  |                      |
| 5,839.33              | 30.60           | 119.81            | 5,123.77              | -1,339.13    | 2,337.70     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 7,879.14              | 0.00            | 0.00              | 7,068.00              | -1,603.48    | 2,799.18     | 1.50                    | -1.50                  | 0.00                  | 180.00  |                      |
| 7,979.14              | 0.00            | 0.00              | 7,168.00              | -1,603.48    | 2,799.18     | 0.00                    | 0.00                   | 0.00                  | 0.00    | Top Gas (50' Radius) |
| 10,729.14             | 0.00            | 0.00              | 9,918.00              | -1,603.48    | 2,799.18     | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |

**WPX**  
Planning Report - Geographic

|                  |                       |                                     |  |
|------------------|-----------------------|-------------------------------------|--|
| <b>Database:</b> | COMPASS-PICEANCE      | <b>Local Co-ordinate Reference:</b> | Well RU 542-8 - Slot A02                               |
| <b>Company:</b>  | PICEANCE VLY NAD 83   | <b>TVD Reference:</b>               | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Project:</b>  | RU 08-07S-093W        | <b>MD Reference:</b>                | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Site:</b>     | RU 21-8 Pad           | <b>North Reference:</b>             | True   |
| <b>Well:</b>     | RU 542-8              | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Wellbore:</b> | Wellbore #1           |                                     |  |
| <b>Design:</b>   | Design #1 08Sep14 mab |                                     |  |

| Planned Survey              |                    |                      |                             |                 |                 |                           |                          |          |            |
|-----------------------------|--------------------|----------------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|----------|------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(bearing) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude | Longitude  |
| 0.00                        | 0.00               | 0.00                 | 0.00                        | 0.00            | 0.00            | 1,602,631.21              | 2,350,463.14             | 39.46541 | -107.80093 |
| 120.00                      | 0.00               | 0.00                 | 120.00                      | 0.00            | 0.00            | 1,602,631.21              | 2,350,463.14             | 39.46541 | -107.80093 |
| Start Build 3.50°/100       |                    |                      |                             |                 |                 |                           |                          |          |            |
| 200.00                      | 2.80               | 119.81               | 199.97                      | -0.97           | 1.70            | 1,602,630.19              | 2,350,464.81             | 39.46541 | -107.80093 |
| 400.00                      | 9.80               | 119.81               | 398.64                      | -11.87          | 20.73           | 1,602,618.81              | 2,350,483.56             | 39.46538 | -107.80086 |
| 600.00                      | 16.80              | 119.81               | 593.15                      | -34.73          | 60.63           | 1,602,594.95              | 2,350,522.87             | 39.46532 | -107.80072 |
| 800.00                      | 23.80              | 119.81               | 780.61                      | -69.20          | 120.80          | 1,602,558.97              | 2,350,582.15             | 39.46522 | -107.80051 |
| 994.20                      | 30.60              | 119.81               | 953.24                      | -113.29         | 197.78          | 1,602,512.94              | 2,350,657.98             | 39.46510 | -107.80023 |
| Hold 30.60° Inc, 119.81° Az |                    |                      |                             |                 |                 |                           |                          |          |            |
| 1,000.00                    | 30.60              | 119.81               | 958.23                      | -114.76         | 200.34          | 1,602,511.41              | 2,350,660.51             | 39.46510 | -107.80023 |
| 1,200.00                    | 30.60              | 119.81               | 1,130.38                    | -165.36         | 288.67          | 1,602,458.59              | 2,350,747.53             | 39.46496 | -107.79991 |
| 9 5/8"                      |                    |                      |                             |                 |                 |                           |                          |          |            |
| 1,400.00                    | 30.60              | 119.81               | 1,302.54                    | -215.96         | 377.00          | 1,602,405.77              | 2,350,834.55             | 39.46482 | -107.79960 |
| 1,600.00                    | 30.60              | 119.81               | 1,474.69                    | -266.56         | 465.33          | 1,602,352.94              | 2,350,921.58             | 39.46468 | -107.79929 |
| 1,800.00                    | 30.60              | 119.81               | 1,646.84                    | -317.16         | 553.67          | 1,602,300.12              | 2,351,008.60             | 39.46454 | -107.79897 |
| 2,000.00                    | 30.60              | 119.81               | 1,819.00                    | -367.76         | 642.00          | 1,602,247.30              | 2,351,095.62             | 39.46440 | -107.79866 |
| 2,200.00                    | 30.60              | 119.81               | 1,991.15                    | -418.36         | 730.33          | 1,602,194.48              | 2,351,182.65             | 39.46426 | -107.79835 |
| 2,400.00                    | 30.60              | 119.81               | 2,163.31                    | -468.96         | 818.67          | 1,602,141.66              | 2,351,269.67             | 39.46412 | -107.79804 |
| 2,600.00                    | 30.60              | 119.81               | 2,335.46                    | -519.57         | 907.00          | 1,602,088.84              | 2,351,356.69             | 39.46399 | -107.79772 |
| 2,800.00                    | 30.60              | 119.81               | 2,507.61                    | -570.17         | 995.33          | 1,602,036.01              | 2,351,443.72             | 39.46385 | -107.79741 |
| 3,000.00                    | 30.60              | 119.81               | 2,679.77                    | -620.77         | 1,083.67        | 1,601,983.19              | 2,351,530.74             | 39.46371 | -107.79710 |
| 3,200.00                    | 30.60              | 119.81               | 2,851.92                    | -671.37         | 1,172.00        | 1,601,930.37              | 2,351,617.76             | 39.46357 | -107.79678 |
| 3,400.00                    | 30.60              | 119.81               | 3,024.07                    | -721.97         | 1,260.33        | 1,601,877.55              | 2,351,704.79             | 39.46343 | -107.79647 |
| 3,600.00                    | 30.60              | 119.81               | 3,196.23                    | -772.57         | 1,348.67        | 1,601,824.73              | 2,351,791.81             | 39.46329 | -107.79616 |
| 3,800.00                    | 30.60              | 119.81               | 3,368.38                    | -823.17         | 1,437.00        | 1,601,771.91              | 2,351,878.83             | 39.46315 | -107.79585 |
| 4,000.00                    | 30.60              | 119.81               | 3,540.53                    | -873.77         | 1,525.33        | 1,601,719.09              | 2,351,965.85             | 39.46301 | -107.79553 |
| 4,200.00                    | 30.60              | 119.81               | 3,712.69                    | -924.37         | 1,613.66        | 1,601,666.26              | 2,352,052.88             | 39.46287 | -107.79522 |
| 4,400.00                    | 30.60              | 119.81               | 3,884.84                    | -974.97         | 1,702.00        | 1,601,613.44              | 2,352,139.90             | 39.46273 | -107.79491 |
| 4,600.00                    | 30.60              | 119.81               | 4,056.99                    | -1,025.57       | 1,790.33        | 1,601,560.62              | 2,352,226.92             | 39.46260 | -107.79459 |
| 4,800.00                    | 30.60              | 119.81               | 4,229.15                    | -1,076.17       | 1,878.66        | 1,601,507.80              | 2,352,313.95             | 39.46246 | -107.79428 |
| 5,000.00                    | 30.60              | 119.81               | 4,401.30                    | -1,126.77       | 1,967.00        | 1,601,454.98              | 2,352,400.97             | 39.46232 | -107.79397 |
| 5,200.00                    | 30.60              | 119.81               | 4,573.45                    | -1,177.38       | 2,055.33        | 1,601,402.16              | 2,352,487.99             | 39.46218 | -107.79366 |
| 5,400.00                    | 30.60              | 119.81               | 4,745.61                    | -1,227.98       | 2,143.66        | 1,601,349.33              | 2,352,575.02             | 39.46204 | -107.79334 |
| 5,600.00                    | 30.60              | 119.81               | 4,917.76                    | -1,278.58       | 2,232.00        | 1,601,296.51              | 2,352,662.04             | 39.46190 | -107.79303 |
| 5,800.00                    | 30.60              | 119.81               | 5,089.92                    | -1,329.18       | 2,320.33        | 1,601,243.69              | 2,352,749.06             | 39.46176 | -107.79272 |
| 5,839.33                    | 30.60              | 119.81               | 5,123.77                    | -1,339.13       | 2,337.70        | 1,601,233.30              | 2,352,766.18             | 39.46174 | -107.79266 |
| Start Drop -1.50°/100       |                    |                      |                             |                 |                 |                           |                          |          |            |
| 6,000.00                    | 28.19              | 119.81               | 5,263.75                    | -1,378.32       | 2,406.12        | 1,601,192.39              | 2,352,833.58             | 39.46163 | -107.79241 |
| 6,200.00                    | 25.19              | 119.81               | 5,442.42                    | -1,422.96       | 2,484.05        | 1,601,145.79              | 2,352,910.36             | 39.46150 | -107.79214 |
| 6,400.00                    | 22.19              | 119.81               | 5,625.55                    | -1,462.90       | 2,553.76        | 1,601,104.10              | 2,352,979.04             | 39.46140 | -107.79189 |
| 6,600.00                    | 19.19              | 119.81               | 5,812.63                    | -1,498.01       | 2,615.06        | 1,601,067.45              | 2,353,039.43             | 39.46130 | -107.79167 |
| 6,800.00                    | 16.19              | 119.81               | 6,003.16                    | -1,528.21       | 2,667.78        | 1,601,035.92              | 2,353,091.36             | 39.46122 | -107.79149 |
| 7,000.00                    | 13.19              | 119.81               | 6,196.60                    | -1,553.41       | 2,711.78        | 1,601,009.61              | 2,353,134.71             | 39.46115 | -107.79133 |
| 7,200.00                    | 10.19              | 119.81               | 6,392.43                    | -1,573.55       | 2,746.93        | 1,600,988.59              | 2,353,169.34             | 39.46109 | -107.79121 |
| 7,400.00                    | 7.19               | 119.81               | 6,590.12                    | -1,588.56       | 2,773.13        | 1,600,972.92              | 2,353,195.16             | 39.46105 | -107.79111 |
| 7,600.00                    | 4.19               | 119.81               | 6,789.11                    | -1,598.41       | 2,790.33        | 1,600,962.64              | 2,353,212.10             | 39.46102 | -107.79105 |
| 7,800.00                    | 1.19               | 119.81               | 6,988.87                    | -1,603.07       | 2,798.46        | 1,600,957.78              | 2,353,220.11             | 39.46101 | -107.79102 |
| 7,879.14                    | 0.00               | 0.00                 | 7,068.00                    | -1,603.48       | 2,799.18        | 1,600,957.35              | 2,353,220.81             | 39.46101 | -107.79102 |
| Vertical                    |                    |                      |                             |                 |                 |                           |                          |          |            |
| 7,979.14                    | 0.00               | 0.00                 | 7,168.00                    | -1,603.48       | 2,799.18        | 1,600,957.35              | 2,353,220.81             | 39.46101 | -107.79102 |
| Top Gas - Approx. Top Gas   |                    |                      |                             |                 |                 |                           |                          |          |            |
| 8,000.00                    | 0.00               | 0.00                 | 7,188.86                    | -1,603.48       | 2,799.18        | 1,600,957.35              | 2,353,220.81             | 39.46101 | -107.79102 |

**WPX**  
Planning Report - Geographic

|                  |                       |                                     |  |
|------------------|-----------------------|-------------------------------------|--|
| <b>Database:</b> | COMPASS-PICEANCE      | <b>Local Co-ordinate Reference:</b> | Well RU 542-8 - Slot A02                               |
| <b>Company:</b>  | PICEANCE VLY NAD 83   | <b>TVD Reference:</b>               | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Project:</b>  | RU 08-07S-093W        | <b>MD Reference:</b>                | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Site:</b>     | RU 21-8 Pad           | <b>North Reference:</b>             | True   |
| <b>Well:</b>     | RU 542-8              | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Wellbore:</b> | Wellbore #1           |                                     |  |
| <b>Design:</b>   | Design #1 08Sep14 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  |
| 8,200.00              | 0.00            | 0.00              | 7,388.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 8,400.00              | 0.00            | 0.00              | 7,588.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 8,600.00              | 0.00            | 0.00              | 7,788.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 8,800.00              | 0.00            | 0.00              | 7,988.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 9,000.00              | 0.00            | 0.00              | 8,188.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 9,200.00              | 0.00            | 0.00              | 8,388.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 9,400.00              | 0.00            | 0.00              | 8,588.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 9,600.00              | 0.00            | 0.00              | 8,788.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 9,747.14              | 0.00            | 0.00              | 8,936.00              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| Cameo Coals           |                 |                   |                       |              |              |                     |                    |          |            |
| 9,800.00              | 0.00            | 0.00              | 8,988.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 10,000.00             | 0.00            | 0.00              | 9,188.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 10,200.00             | 0.00            | 0.00              | 9,388.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 10,400.00             | 0.00            | 0.00              | 9,588.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 10,417.14             | 0.00            | 0.00              | 9,606.00              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| Coal D                |                 |                   |                       |              |              |                     |                    |          |            |
| 10,579.14             | 0.00            | 0.00              | 9,768.00              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| Rollins SS            |                 |                   |                       |              |              |                     |                    |          |            |
| 10,600.00             | 0.00            | 0.00              | 9,788.86              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| 10,729.13             | 0.00            | 0.00              | 9,917.99              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| TD                    |                 |                   |                       |              |              |                     |                    |          |            |
| 10,729.14             | 0.00            | 0.00              | 9,918.00              | -1,603.48    | 2,799.18     | 1,600,957.35        | 2,353,220.81       | 39.46101 | -107.79102 |
| TD at 10729.14        |                 |                   |                       |              |              |                     |                    |          |            |

| Design Targets  |               |                    |            |              |              |                 |                |          |            |
|---|---------------|--------------------|------------|--------------|--------------|-----------------|----------------|----------|------------|
| Target Name<br>- hit/miss target<br>- 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<br>- plan hits target center<br>- Circle (radius 50.00) | 0.00          | 358.56             | 7,168.00   | -1,603.48    | 2,799.18     | 1,600,957.35    | 2,353,220.81   | 39.46101 | -107.79102 |

| Casing Points         |                       |        |                      |                    |  |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name   | Casing Diameter (in) | Hole Diameter (in) |  |
| 1,200.00              | 1,130.38              | 9 5/8" | 9.625                | 13.500             |  |

**WPX**  
Planning Report - Geographic

|                  |                       |                                     |  |
|------------------|-----------------------|-------------------------------------|--|
| <b>Database:</b> | COMPASS-PICEANCE      | <b>Local Co-ordinate Reference:</b> | Well RU 542-8 - Slot A02                               |
| <b>Company:</b>  | PICEANCE VLY NAD 83   | <b>TVD Reference:</b>               | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Project:</b>  | RU 08-07S-093W        | <b>MD Reference:</b>                | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| <b>Site:</b>     | RU 21-8 Pad           | <b>North Reference:</b>             | True   |
| <b>Well:</b>     | RU 542-8              | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Wellbore:</b> | Wellbore #1           |                                     |  |
| <b>Design:</b>   | Design #1 08Sep14 mab |                                     |  |

| Formations            |                       |                 |           |         |                         |  |
|-----------------------|-----------------------|-----------------|-----------|---------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name            | Lithology | Dip (°) | Dip Direction (bearing) |  |
| 7,979.14              | 7,168.00              | Approx. Top Gas |           |         |                         |  |
| 9,747.14              | 8,936.00              | Cameo Coals     |           |         |                         |  |
| 10,417.14             | 9,606.00              | Coal D          |           |         |                         |  |
| 10,579.14             | 9,768.00              | Rollins SS      |           |         |                         |  |
| 10,729.13             | 9,917.99              | TD              |           | 0.00    |                         |  |

| 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°/100       |  |
| 994.20                | 953.24                | -113.29           | 197.78       | Hold 30.60° Inc, 119.81° Az |  |
| 5,839.33              | 5,123.77              | -1,339.13         | 2,337.70     | Start Drop -1.50°/100       |  |
| 7,879.14              | 7,068.00              | -1,603.48         | 2,799.18     | Vertical                    |  |
| 7,979.14              | 7,168.00              | -1,603.48         | 2,799.18     | Top Gas                     |  |
| 10,729.14             | 9,918.00              | -1,603.48         | 2,799.18     | TD at 10729.14              |  |