

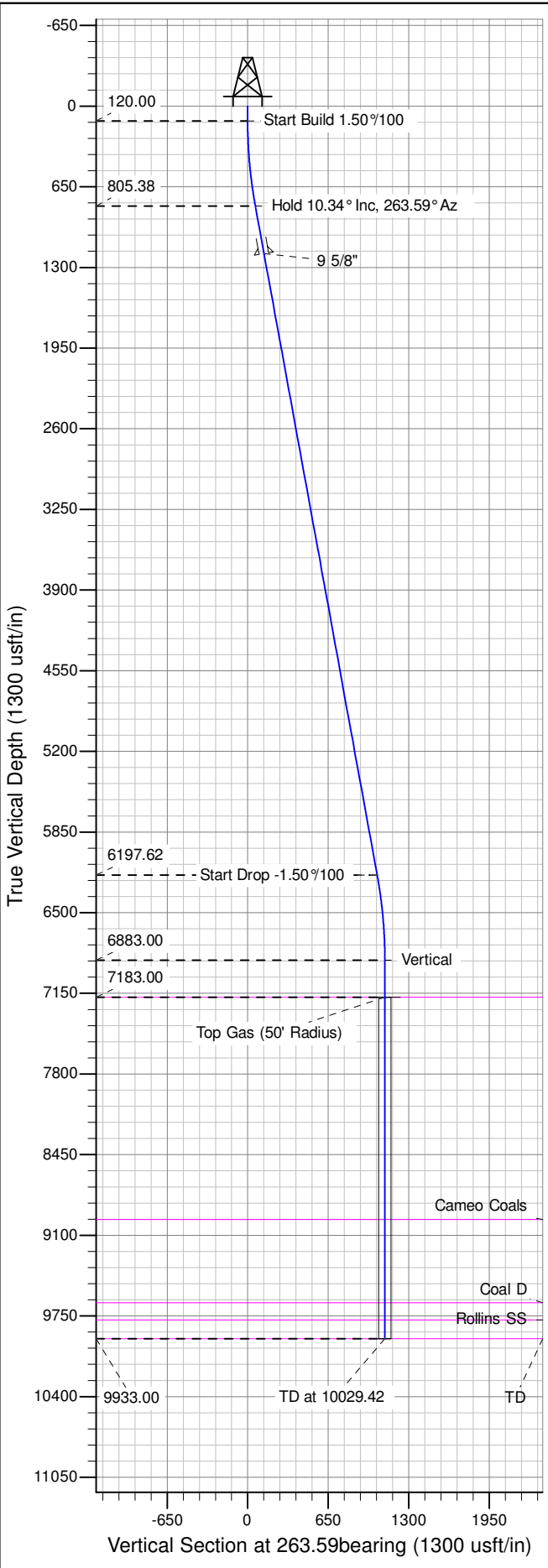


Well Name: RU 311-8
 Surface Location: RU 21-8 Pad

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 7736.00

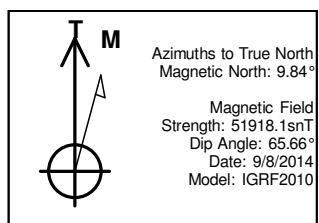
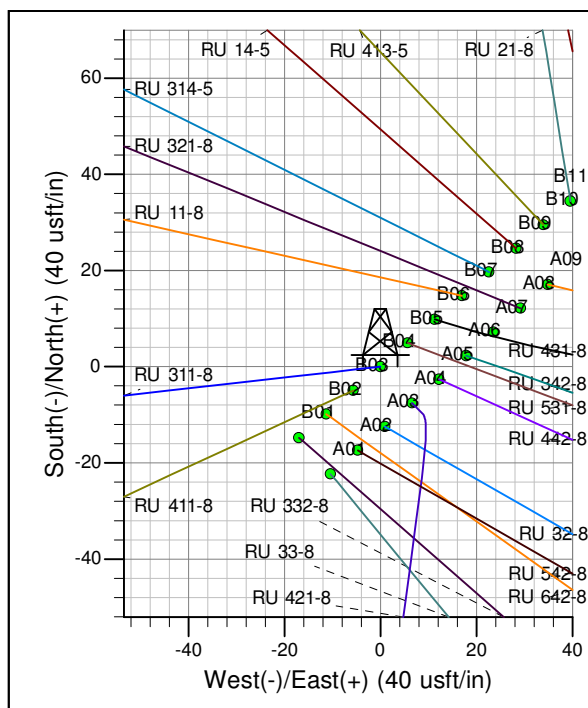
+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1602648.48 2350468.32 39.46546 -107.80092 B04

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 1.50°/100 |
| 805.38 | 809.11 | 10.34 | 263.59 | -6.92 | -61.61 | 61.99 | 61.99 | Hold 10.34° Inc, 263.59° Az |
| 6197.62 | 6290.31 | 10.34 | 263.59 | -116.63 | -1038.97 | 1045.50 | 1045.50 | Start Drop -1.50°/100 |
| 6883.00 | 6979.42 | 0.00 | 0.00 | -123.55 | -1100.58 | 1107.49 | 1107.49 | Vertical |
| 7183.00 | 7279.42 | 0.00 | 0.00 | -123.55 | -1100.58 | 1107.49 | 1107.49 | Top Gas |
| 9933.00 | 10029.42 | 0.00 | 0.00 | -123.55 | -1100.58 | 1107.49 | 1107.49 | TD at 10029.42 |



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 311-8
 Design #1 08Sep14 mab

PICEANCE VLY NAD 83

RU 08-07S-093W

RU 21-8 Pad

RU 311-8 - Slot B04

Wellbore #1

Plan: Design #1 08Sep14 mab

Standard Planning Report - Geographic

04 November, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 311-8 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Project: | RU 08-07S-093W | MD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Site: | RU 21-8 Pad | North Reference: | True |
| Well: | RU 311-8 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Sep14 mab | | |

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

| | | | | | |
|------------------------------|-------------|---------------------|----------------------|--------------------------|------------|
| Site | RU 21-8 Pad | | | | |
| Site Position: | | Northing: | 1,602,707.70000 usft | Latitude: | 39.46563 |
| From: | Map | Easting: | 2,350,555.60000 usft | Longitude: | -107.80061 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: | -1.45 ° |

| | | | | | | |
|-----------------------------|---------------------|-----------|----------------------------|----------------------|----------------------|---------------|
| Well | RU 311-8 - Slot B04 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,602,648.47590 usft | Latitude: | 39.46546 |
| | +E/-W | 0.00 usft | Easting: | 2,350,468.32167 usft | Longitude: | -107.80092 |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | 0.00 usft | Ground Level: | 7,736.00 usft |

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

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| Design | Design #1 08Sep14 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 | 263.59 |

| 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 | |
| 809.11 | 10.34 | 263.59 | 805.38 | -6.92 | -61.61 | 1.50 | 1.50 | 0.00 | 263.59 | |
| 6,290.31 | 10.34 | 263.59 | 6,197.62 | -116.63 | -1,038.97 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,979.42 | 0.00 | 0.00 | 6,883.00 | -123.55 | -1,100.58 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 7,279.42 | 0.00 | 0.00 | 7,183.00 | -123.55 | -1,100.58 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (50' Radius) |
| 10,029.42 | 0.00 | 0.00 | 9,933.00 | -123.55 | -1,100.58 | 0.00 | 0.00 | 0.00 | 0.00 | |

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 311-8 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Project: | RU 08-07S-093W | MD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Site: | RU 21-8 Pad | North Reference: | True |
| Well: | RU 311-8 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | 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 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,602,648.47590 | 2,350,468.32167 | 39.46546 | -107.80092 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 1,602,648.47590 | 2,350,468.32167 | 39.46546 | -107.80092 | |
| Start Build 1.50°/100 | | | | | | | | | | |
| 200.00 | 1.20 | 263.59 | 199.99 | -0.09 | -0.83 | 1,602,648.40356 | 2,350,467.48707 | 39.46546 | -107.80092 | |
| 400.00 | 4.20 | 263.59 | 399.75 | -1.14 | -10.19 | 1,602,647.59006 | 2,350,458.10205 | 39.46546 | -107.80095 | |
| 600.00 | 7.20 | 263.59 | 598.74 | -3.36 | -29.93 | 1,602,645.87487 | 2,350,438.31456 | 39.46545 | -107.80102 | |
| 800.00 | 10.20 | 263.59 | 796.41 | -6.73 | -59.99 | 1,602,643.26269 | 2,350,408.17886 | 39.46544 | -107.80113 | |
| 809.11 | 10.34 | 263.59 | 805.38 | -6.92 | -61.61 | 1,602,643.12241 | 2,350,406.56050 | 39.46544 | -107.80114 | |
| Hold 10.34° Inc, 263.59° Az | | | | | | | | | | |
| 1,000.00 | 10.34 | 263.59 | 993.17 | -10.74 | -95.64 | 1,602,640.16458 | 2,350,372.43712 | 39.46543 | -107.80126 | |
| 1,200.00 | 10.34 | 263.59 | 1,189.92 | -14.74 | -131.31 | 1,602,637.06555 | 2,350,336.68474 | 39.46542 | -107.80138 | |
| 9 5/8" | | | | | | | | | | |
| 1,400.00 | 10.34 | 263.59 | 1,386.68 | -18.74 | -166.97 | 1,602,633.96652 | 2,350,300.93236 | 39.46541 | -107.80151 | |
| 1,600.00 | 10.34 | 263.59 | 1,583.43 | -22.75 | -202.63 | 1,602,630.86748 | 2,350,265.17997 | 39.46540 | -107.80164 | |
| 1,800.00 | 10.34 | 263.59 | 1,780.19 | -26.75 | -238.29 | 1,602,627.76845 | 2,350,229.42758 | 39.46539 | -107.80176 | |
| 2,000.00 | 10.34 | 263.59 | 1,976.94 | -30.75 | -273.96 | 1,602,624.66941 | 2,350,193.67519 | 39.46538 | -107.80189 | |
| 2,200.00 | 10.34 | 263.59 | 2,173.69 | -34.76 | -309.62 | 1,602,621.57038 | 2,350,157.92280 | 39.46536 | -107.80201 | |
| 2,400.00 | 10.34 | 263.59 | 2,370.45 | -38.76 | -345.28 | 1,602,618.47135 | 2,350,122.17042 | 39.46535 | -107.80214 | |
| 2,600.00 | 10.34 | 263.59 | 2,567.20 | -42.76 | -380.94 | 1,602,615.37231 | 2,350,086.41803 | 39.46534 | -107.80227 | |
| 2,800.00 | 10.34 | 263.59 | 2,763.96 | -46.77 | -416.61 | 1,602,612.27328 | 2,350,050.66564 | 39.46533 | -107.80239 | |
| 3,000.00 | 10.34 | 263.59 | 2,960.71 | -50.77 | -452.27 | 1,602,609.17424 | 2,350,014.91325 | 39.46532 | -107.80252 | |
| 3,200.00 | 10.34 | 263.59 | 3,157.46 | -54.77 | -487.93 | 1,602,606.07521 | 2,349,979.16086 | 39.46531 | -107.80265 | |
| 3,400.00 | 10.34 | 263.59 | 3,354.22 | -58.78 | -523.59 | 1,602,602.97618 | 2,349,943.40849 | 39.46530 | -107.80277 | |
| 3,600.00 | 10.34 | 263.59 | 3,550.97 | -62.78 | -559.26 | 1,602,599.87714 | 2,349,907.65610 | 39.46529 | -107.80290 | |
| 3,800.00 | 10.34 | 263.59 | 3,747.73 | -66.79 | -594.92 | 1,602,596.77811 | 2,349,871.90371 | 39.46528 | -107.80303 | |
| 4,000.00 | 10.34 | 263.59 | 3,944.48 | -70.79 | -630.58 | 1,602,593.67908 | 2,349,836.15132 | 39.46527 | -107.80315 | |
| 4,200.00 | 10.34 | 263.59 | 4,141.24 | -74.79 | -666.24 | 1,602,590.58005 | 2,349,800.39893 | 39.46525 | -107.80328 | |
| 4,400.00 | 10.34 | 263.59 | 4,337.99 | -78.80 | -701.90 | 1,602,587.48102 | 2,349,764.64655 | 39.46524 | -107.80340 | |
| 4,600.00 | 10.34 | 263.59 | 4,534.74 | -82.80 | -737.57 | 1,602,584.38198 | 2,349,728.89416 | 39.46523 | -107.80353 | |
| 4,800.00 | 10.34 | 263.59 | 4,731.50 | -86.80 | -773.23 | 1,602,581.28295 | 2,349,693.14177 | 39.46522 | -107.80366 | |
| 5,000.00 | 10.34 | 263.59 | 4,928.25 | -90.81 | -808.89 | 1,602,578.18392 | 2,349,657.38938 | 39.46521 | -107.80378 | |
| 5,200.00 | 10.34 | 263.59 | 5,125.01 | -94.81 | -844.55 | 1,602,575.08488 | 2,349,621.63699 | 39.46520 | -107.80391 | |
| 5,400.00 | 10.34 | 263.59 | 5,321.76 | -98.81 | -880.22 | 1,602,571.98585 | 2,349,585.88461 | 39.46519 | -107.80404 | |
| 5,600.00 | 10.34 | 263.59 | 5,518.51 | -102.82 | -915.88 | 1,602,568.88681 | 2,349,550.13223 | 39.46518 | -107.80416 | |
| 5,800.00 | 10.34 | 263.59 | 5,715.27 | -106.82 | -951.54 | 1,602,565.78778 | 2,349,514.37984 | 39.46517 | -107.80429 | |
| 6,000.00 | 10.34 | 263.59 | 5,912.02 | -110.82 | -987.20 | 1,602,562.68875 | 2,349,478.62745 | 39.46516 | -107.80441 | |
| 6,200.00 | 10.34 | 263.59 | 6,108.78 | -114.83 | -1,022.87 | 1,602,559.58971 | 2,349,442.87506 | 39.46514 | -107.80454 | |
| 6,290.31 | 10.34 | 263.59 | 6,197.62 | -116.63 | -1,038.97 | 1,602,558.19035 | 2,349,426.73118 | 39.46514 | -107.80460 | |
| Start Drop -1.50°/100 | | | | | | | | | | |
| 6,400.00 | 8.69 | 263.59 | 6,305.80 | -118.66 | -1,056.99 | 1,602,556.62471 | 2,349,408.66890 | 39.46513 | -107.80466 | |
| 6,600.00 | 5.69 | 263.59 | 6,504.20 | -121.45 | -1,081.86 | 1,602,554.46287 | 2,349,383.72865 | 39.46513 | -107.80475 | |
| 6,800.00 | 2.69 | 263.59 | 6,703.64 | -123.08 | -1,096.39 | 1,602,553.20070 | 2,349,369.16746 | 39.46512 | -107.80480 | |
| 6,979.42 | 0.00 | 0.00 | 6,883.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| Vertical | | | | | | | | | | |
| 7,000.00 | 0.00 | 0.00 | 6,903.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 7,200.00 | 0.00 | 0.00 | 7,103.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 7,279.42 | 0.00 | 0.00 | 7,183.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 7,400.00 | 0.00 | 0.00 | 7,303.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 7,600.00 | 0.00 | 0.00 | 7,503.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 7,800.00 | 0.00 | 0.00 | 7,703.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 8,000.00 | 0.00 | 0.00 | 7,903.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 311-8 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Project: | RU 08-07S-093W | MD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Site: | RU 21-8 Pad | North Reference: | True |
| Well: | RU 311-8 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | 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 | 8,103.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 8,400.00 | 0.00 | 0.00 | 8,303.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 8,600.00 | 0.00 | 0.00 | 8,503.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 8,800.00 | 0.00 | 0.00 | 8,703.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,000.00 | 0.00 | 0.00 | 8,903.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,068.42 | 0.00 | 0.00 | 8,972.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| Cameo Coals | | | | | | | | | | |
| 9,200.00 | 0.00 | 0.00 | 9,103.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,400.00 | 0.00 | 0.00 | 9,303.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,600.00 | 0.00 | 0.00 | 9,503.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,739.42 | 0.00 | 0.00 | 9,643.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| Coal D | | | | | | | | | | |
| 9,800.00 | 0.00 | 0.00 | 9,703.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 9,879.42 | 0.00 | 0.00 | 9,783.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| Rollins SS | | | | | | | | | | |
| 10,000.00 | 0.00 | 0.00 | 9,903.58 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| 10,029.41 | 0.00 | 0.00 | 9,932.99 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| TD | | | | | | | | | | |
| 10,029.42 | 0.00 | 0.00 | 9,933.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97001 | 39.46512 | -107.80482 | |
| TD at 10029.42 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------------|------------|--------------|--------------|-----------------|-----------------|----------|------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| Top Gas (50' Radius) RL - hit/miss target - Shape - plan hits target center - Circle (radius 50.00) | 0.00 | 358.55 | 7,183.00 | -123.55 | -1,100.58 | 1,602,552.83686 | 2,349,364.97000 | 39.46512 | -107.80482 | |

| Casing Points | | | | | | | |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|--|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (in) | Hole Diameter (in) | | | |
| 1,200.00 | 1,189.92 | 9 5/8" | 9.625 | 13.500 | | | |

| Formations | | | | | | |
|-----------------------|-----------------------|-----------------|-----------|---------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (bearing) | |
| 7,279.42 | 7,183.00 | Approx. Top Gas | | | | |
| 9,068.42 | 8,972.00 | Cameo Coals | | | | |
| 9,739.42 | 9,643.00 | Coal D | | | | |
| 9,879.42 | 9,783.00 | Rollins SS | | | | |
| 10,029.41 | 9,932.99 | TD | | 0.00 | | |

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|--|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well RU 311-8 - Slot B04 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Project: | RU 08-07S-093W | MD Reference: | KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab) |
| Site: | RU 21-8 Pad | North Reference: | True |
| Well: | RU 311-8 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Sep14 mab | | |

| Plan Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|-----------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 120.00 | 120.00 | 0.00 | 0.00 | Start Build 1.50°/100 |
| 809.11 | 805.38 | -6.92 | -61.61 | Hold 10.34° Inc, 263.59° Az |
| 6,290.31 | 6,197.62 | -116.63 | -1,038.97 | Start Drop -1.50°/100 |
| 6,979.42 | 6,883.00 | -123.55 | -1,100.58 | Vertical |
| 7,279.42 | 7,183.00 | -123.55 | -1,100.58 | Top Gas |
| 10,029.42 | 9,933.00 | -123.55 | -1,100.58 | TD at 10029.42 |