

PICEANCE VLY NAD 83

SG 28-07S-096W

SG 43-28 Pad

SG 531-28 - Slot A11

Wellbore #1

Plan: Design #4 ST 2nov14 DM

Standard Planning Report - Geographic

03 November, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|------------------------|-------------------------------------|---------------------------------|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well SG 531-28 (A11) - Slot A11 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 5143.00usft (H&P 318) |
| Project: | SG 28-07S-096W | MD Reference: | KB @ 5143.00usft (H&P 318) |
| Site: | SG 43-28 Pad | North Reference: | True |
| Well: | SG 531-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #4 ST 2nov14 DM | | |

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|--------------------|--------------------------------------------------|----------------------|-----------------------------|
| Project | SG 28-07S-096W, Garfield County, CO, 28-07S-096W | | |
| 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 |

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|------------------------------|--------------|---------------------|----------------------|--------------------------|------------|
| Site | SG 43-28 Pad | | | | |
| Site Position: | | Northing: | 1,583,837.93900 usft | Latitude: | 39.40738 |
| From: | Map | Easting: | 2,263,416.17600 usft | Longitude: | -108.10722 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: | -1.64 ° |

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|-----------------------------|----------------------|-----------|----------------------------|----------------------|----------------------|---------------|
| Well | SG 531-28 - Slot A11 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,583,889.92000 usft | Latitude: | 39.40752 |
| | +E/-W | 0.00 usft | Easting: | 2,263,430.29000 usft | Longitude: | -108.10718 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | | Ground Level: | 5,119.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 10/30/2014 | 9.96 | 65.55 | 51,854 |

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|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|--|
| Design | Design #4 ST 2nov14 DM | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 1,210.00 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (bearing) | |
| | 0.00 | 0.00 | 0.00 | 323.08 | |

| 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 |
| 1,210.00 | 39.18 | 323.48 | 1,129.89 | 281.85 | -210.63 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,510.00 | 47.15 | 317.36 | 1,348.62 | 439.23 | -341.78 | 3.00 | 2.66 | -2.04 | -30.00 | |
| 1,727.05 | 53.03 | 323.65 | 1,487.90 | 567.78 | -447.23 | 3.50 | 2.71 | 2.90 | 41.44 | |
| 2,714.80 | 53.03 | 323.65 | 2,081.94 | 1,203.34 | -915.01 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,435.94 | 10.00 | 323.48 | 3,515.00 | 1,910.73 | -1,436.22 | 2.50 | -2.50 | -0.01 | -179.96 | Top Gas (50' Radius) |
| 4,835.94 | 0.00 | 323.48 | 3,912.97 | 1,938.71 | -1,456.94 | 2.50 | -2.50 | 0.00 | 180.00 | |
| 6,039.97 | 0.00 | 323.48 | 5,117.00 | 1,938.71 | -1,456.94 | 0.00 | 0.00 | 0.00 | 323.48 | |

WPX
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| | | | |
|------------------|------------------------|-------------------------------------|---------------------------------|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well SG 531-28 (A11) - Slot A11 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 5143.00usft (H&P 318) |
| Project: | SG 28-07S-096W | MD Reference: | KB @ 5143.00usft (H&P 318) |
| Site: | SG 43-28 Pad | North Reference: | True |
| Well: | SG 531-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #4 ST 2nov14 DM | | |

| 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 | 1,583,889.92000 | 2,263,430.29000 | 39.40752 | -108.10718 | |
| 104.00 | 0.79 | 316.41 | 104.00 | 0.52 | -0.49 | 1,583,890.45324 | 2,263,429.81078 | 39.40752 | -108.10718 | |
| 134.00 | 1.14 | 327.30 | 133.99 | 0.92 | -0.80 | 1,583,890.86271 | 2,263,429.51860 | 39.40753 | -108.10718 | |
| 163.00 | 1.50 | 338.55 | 162.98 | 1.52 | -1.09 | 1,583,891.46693 | 2,263,429.24119 | 39.40753 | -108.10718 | |
| 193.00 | 2.46 | 335.21 | 192.97 | 2.47 | -1.51 | 1,583,892.42833 | 2,263,428.85508 | 39.40753 | -108.10718 | |
| 224.00 | 3.61 | 329.68 | 223.92 | 3.91 | -2.28 | 1,583,893.89631 | 2,263,428.12527 | 39.40753 | -108.10719 | |
| 254.00 | 4.49 | 329.15 | 253.85 | 5.74 | -3.36 | 1,583,895.74988 | 2,263,427.09912 | 39.40754 | -108.10719 | |
| 284.00 | 5.37 | 325.55 | 283.74 | 7.90 | -4.75 | 1,583,897.95473 | 2,263,425.76560 | 39.40754 | -108.10719 | |
| 314.00 | 6.86 | 326.78 | 313.56 | 10.56 | -6.53 | 1,583,900.66106 | 2,263,424.06686 | 39.40755 | -108.10720 | |
| 345.00 | 7.57 | 325.02 | 344.32 | 13.78 | -8.71 | 1,583,903.94418 | 2,263,421.97538 | 39.40756 | -108.10721 | |
| 375.00 | 9.33 | 322.73 | 373.99 | 17.34 | -11.32 | 1,583,907.57190 | 2,263,419.47288 | 39.40757 | -108.10722 | |
| 405.00 | 10.12 | 322.65 | 403.56 | 21.37 | -14.39 | 1,583,911.68865 | 2,263,416.51825 | 39.40758 | -108.10723 | |
| 436.00 | 11.52 | 322.73 | 434.01 | 25.99 | -17.92 | 1,583,916.41636 | 2,263,413.12566 | 39.40759 | -108.10724 | |
| 466.00 | 12.76 | 323.00 | 463.34 | 31.02 | -21.73 | 1,583,921.55330 | 2,263,409.46369 | 39.40761 | -108.10725 | |
| 495.00 | 13.72 | 323.61 | 491.57 | 36.35 | -25.69 | 1,583,926.99096 | 2,263,405.65057 | 39.40762 | -108.10727 | |
| 526.00 | 14.60 | 322.03 | 521.62 | 42.39 | -30.28 | 1,583,933.15932 | 2,263,401.24101 | 39.40764 | -108.10728 | |
| 556.00 | 15.48 | 320.80 | 550.60 | 48.47 | -35.14 | 1,583,939.37923 | 2,263,396.56107 | 39.40766 | -108.10730 | |
| 586.00 | 16.54 | 320.98 | 579.43 | 54.89 | -40.36 | 1,583,945.94640 | 2,263,391.52868 | 39.40767 | -108.10732 | |
| 616.00 | 17.33 | 320.98 | 608.13 | 61.68 | -45.86 | 1,583,952.89032 | 2,263,386.22432 | 39.40769 | -108.10734 | |
| 646.00 | 18.21 | 321.59 | 636.70 | 68.83 | -51.58 | 1,583,960.19592 | 2,263,380.70648 | 39.40771 | -108.10736 | |
| 677.00 | 18.56 | 321.94 | 666.12 | 76.51 | -57.63 | 1,583,968.04608 | 2,263,374.87876 | 39.40773 | -108.10738 | |
| 707.00 | 19.71 | 322.91 | 694.46 | 84.30 | -63.63 | 1,583,976.00944 | 2,263,369.11072 | 39.40775 | -108.10740 | |
| 737.00 | 20.41 | 322.56 | 722.64 | 92.49 | -69.86 | 1,583,984.37337 | 2,263,363.11752 | 39.40778 | -108.10742 | |
| 768.00 | 21.38 | 323.26 | 751.60 | 101.31 | -76.52 | 1,583,993.38074 | 2,263,356.70733 | 39.40780 | -108.10745 | |
| 798.00 | 22.87 | 323.26 | 779.39 | 110.37 | -83.28 | 1,584,002.62467 | 2,263,350.21163 | 39.40783 | -108.10747 | |
| 861.00 | 25.50 | 323.20 | 836.86 | 131.04 | -98.73 | 1,584,023.73124 | 2,263,335.36270 | 39.40788 | -108.10753 | |
| 953.00 | 28.84 | 323.99 | 918.69 | 164.85 | -123.65 | 1,584,058.24636 | 2,263,311.42919 | 39.40798 | -108.10762 | |
| 1,047.00 | 33.41 | 323.38 | 999.14 | 203.99 | -152.43 | 1,584,098.18510 | 2,263,283.78375 | 39.40808 | -108.10772 | |
| 1,141.00 | 37.41 | 323.03 | 1,075.74 | 247.59 | -185.05 | 1,584,142.70244 | 2,263,252.42759 | 39.40820 | -108.10783 | |
| 1,210.00 | 39.18 | 323.48 | 1,129.89 | 281.85 | -210.63 | 1,584,177.68518 | 2,263,227.84654 | 39.40830 | -108.10792 | |
| Start DLS 3.00 TFO -30.00 | | | | | | | | | | |
| 1,300.00 | 41.54 | 321.45 | 1,198.47 | 328.04 | -246.15 | 1,584,224.87443 | 2,263,193.66941 | 39.40842 | -108.10805 | |
| 1,400.00 | 44.19 | 319.40 | 1,271.76 | 380.45 | -289.50 | 1,584,278.49681 | 2,263,151.83858 | 39.40857 | -108.10820 | |
| 1,500.00 | 46.88 | 317.54 | 1,341.80 | 433.84 | -336.83 | 1,584,333.22954 | 2,263,106.05965 | 39.40871 | -108.10837 | |
| 1,510.00 | 47.15 | 317.36 | 1,348.62 | 439.23 | -341.78 | 1,584,338.75813 | 2,263,101.26935 | 39.40873 | -108.10839 | |
| Start DLS 3.50 TFO 41.44 | | | | | | | | | | |
| 1,600.00 | 49.55 | 320.10 | 1,408.44 | 489.79 | -386.11 | 1,584,390.55854 | 2,263,058.41497 | 39.40887 | -108.10854 | |
| 1,700.00 | 52.28 | 322.92 | 1,471.49 | 550.55 | -434.37 | 1,584,452.67479 | 2,263,011.91383 | 39.40903 | -108.10871 | |
| 1,727.05 | 53.03 | 323.65 | 1,487.90 | 567.78 | -447.23 | 1,584,470.27470 | 2,262,999.55783 | 39.40908 | -108.10876 | |
| Hold 53.03 Inclination | | | | | | | | | | |
| 1,730.55 | 53.03 | 323.65 | 1,490.00 | 570.03 | -448.88 | 1,584,472.56937 | 2,262,997.96839 | 39.40909 | -108.10877 | |
| 9 5/8" Setting Depth 1730' MD | | | | | | | | | | |
| 1,800.00 | 53.03 | 323.65 | 1,531.77 | 614.72 | -481.78 | 1,584,518.18248 | 2,262,966.37367 | 39.40921 | -108.10888 | |
| 1,900.00 | 53.03 | 323.65 | 1,591.91 | 679.07 | -529.14 | 1,584,583.85606 | 2,262,920.88372 | 39.40939 | -108.10905 | |
| 2,000.00 | 53.03 | 323.65 | 1,652.05 | 743.41 | -576.49 | 1,584,649.52964 | 2,262,875.39377 | 39.40956 | -108.10922 | |
| 2,100.00 | 53.03 | 323.65 | 1,712.20 | 807.76 | -623.85 | 1,584,715.20322 | 2,262,829.90383 | 39.40974 | -108.10939 | |
| 2,200.00 | 53.03 | 323.65 | 1,772.34 | 872.10 | -671.21 | 1,584,780.87679 | 2,262,784.41388 | 39.40992 | -108.10955 | |
| 2,300.00 | 53.03 | 323.65 | 1,832.48 | 936.44 | -718.57 | 1,584,846.55036 | 2,262,738.92393 | 39.41009 | -108.10972 | |
| 2,400.00 | 53.03 | 323.65 | 1,892.62 | 1,000.79 | -765.93 | 1,584,912.22394 | 2,262,693.43398 | 39.41027 | -108.10989 | |
| 2,500.00 | 53.03 | 323.65 | 1,952.76 | 1,065.13 | -813.28 | 1,584,977.89751 | 2,262,647.94403 | 39.41045 | -108.11006 | |
| 2,600.00 | 53.03 | 323.65 | 2,012.90 | 1,129.48 | -860.64 | 1,585,043.57109 | 2,262,602.45408 | 39.41062 | -108.11022 | |
| 2,700.00 | 53.03 | 323.65 | 2,073.05 | 1,193.82 | -908.00 | 1,585,109.24467 | 2,262,556.96413 | 39.41080 | -108.11039 | |
| 2,714.80 | 53.03 | 323.65 | 2,081.94 | 1,203.34 | -915.01 | 1,585,118.96176 | 2,262,550.23341 | 39.41083 | -108.11042 | |
| Start DLS 2.50 TFO -179.96 | | | | | | | | | | |

WPX
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| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 5143.00usft (H&P 318) |
| Project: | SG 28-07S-096W | MD Reference: | KB @ 5143.00usft (H&P 318) |
| Site: | SG 43-28 Pad | North Reference: | True |
| Well: | SG 531-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #4 ST 2nov14 DM | | |

| 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 | |
| 2,800.00 | 50.90 | 323.64 | 2,134.44 | 1,257.39 | -954.78 | 1,585,174.12174 | 2,262,512.02447 | 39.41097 | -108.11056 | |
| 2,852.48 | 49.59 | 323.64 | 2,168.00 | 1,289.87 | -978.70 | 1,585,207.28127 | 2,262,489.05363 | 39.41106 | -108.11064 | |
| Mesaverde | | | | | | | | | | |
| 2,900.00 | 48.40 | 323.64 | 2,199.18 | 1,318.76 | -999.96 | 1,585,236.75881 | 2,262,468.63250 | 39.41114 | -108.11072 | |
| 3,000.00 | 45.90 | 323.64 | 2,267.19 | 1,377.79 | -1,043.42 | 1,585,297.01306 | 2,262,426.88712 | 39.41131 | -108.11087 | |
| 3,100.00 | 43.40 | 323.64 | 2,338.32 | 1,434.38 | -1,085.08 | 1,585,354.76978 | 2,262,386.86780 | 39.41146 | -108.11102 | |
| 3,200.00 | 40.90 | 323.63 | 2,412.46 | 1,488.41 | -1,124.87 | 1,585,409.91903 | 2,262,348.65072 | 39.41161 | -108.11116 | |
| 3,300.00 | 38.40 | 323.63 | 2,489.45 | 1,539.78 | -1,162.70 | 1,585,462.35583 | 2,262,312.30863 | 39.41175 | -108.11129 | |
| 3,400.00 | 35.90 | 323.63 | 2,569.15 | 1,588.40 | -1,198.51 | 1,585,511.98036 | 2,262,277.91071 | 39.41188 | -108.11142 | |
| 3,500.00 | 33.40 | 323.62 | 2,651.41 | 1,634.18 | -1,232.23 | 1,585,558.69816 | 2,262,245.52243 | 39.41201 | -108.11154 | |
| 3,600.00 | 30.90 | 323.62 | 2,736.07 | 1,677.01 | -1,263.79 | 1,585,602.42029 | 2,262,215.20545 | 39.41213 | -108.11165 | |
| 3,700.00 | 28.40 | 323.61 | 2,822.97 | 1,716.83 | -1,293.13 | 1,585,643.06354 | 2,262,187.01748 | 39.41224 | -108.11175 | |
| 3,800.00 | 25.90 | 323.60 | 2,911.95 | 1,753.56 | -1,320.20 | 1,585,680.55053 | 2,262,161.01218 | 39.41234 | -108.11185 | |
| 3,900.00 | 23.40 | 323.59 | 3,002.83 | 1,787.12 | -1,344.95 | 1,585,714.80991 | 2,262,137.23904 | 39.41243 | -108.11194 | |
| 4,000.00 | 20.90 | 323.58 | 3,095.44 | 1,817.46 | -1,367.33 | 1,585,745.77646 | 2,262,115.74333 | 39.41251 | -108.11202 | |
| 4,100.00 | 18.40 | 323.57 | 3,189.61 | 1,844.52 | -1,387.29 | 1,585,773.39124 | 2,262,096.56595 | 39.41259 | -108.11209 | |
| 4,200.00 | 15.90 | 323.55 | 3,285.16 | 1,868.24 | -1,404.80 | 1,585,797.60167 | 2,262,079.74343 | 39.41265 | -108.11215 | |
| 4,300.00 | 13.40 | 323.53 | 3,381.90 | 1,888.57 | -1,419.83 | 1,585,818.36168 | 2,262,065.30777 | 39.41271 | -108.11220 | |
| 4,400.00 | 10.90 | 323.50 | 3,479.65 | 1,905.49 | -1,432.34 | 1,585,835.63174 | 2,262,053.28646 | 39.41275 | -108.11225 | |
| 4,435.94 | 10.00 | 323.48 | 3,515.00 | 1,910.73 | -1,436.22 | 1,585,840.98002 | 2,262,049.55999 | 39.41277 | -108.11226 | |
| Start Drop -2.50 - Top Gas (50' Radius) SG 531-28 | | | | | | | | | | |
| 4,437.97 | 9.95 | 323.48 | 3,517.00 | 1,911.01 | -1,436.43 | 1,585,841.26855 | 2,262,049.35889 | 39.41277 | -108.11226 | |
| Top Gas | | | | | | | | | | |
| 4,500.00 | 8.40 | 323.48 | 3,578.23 | 1,918.96 | -1,442.31 | 1,585,849.38070 | 2,262,043.70490 | 39.41279 | -108.11228 | |
| 4,600.00 | 5.90 | 323.48 | 3,677.45 | 1,928.96 | -1,449.72 | 1,585,859.58861 | 2,262,036.59020 | 39.41282 | -108.11231 | |
| 4,700.00 | 3.40 | 323.48 | 3,777.11 | 1,935.47 | -1,454.54 | 1,585,866.23657 | 2,262,031.95671 | 39.41284 | -108.11233 | |
| 4,800.00 | 0.90 | 323.48 | 3,877.03 | 1,938.49 | -1,456.77 | 1,585,869.31192 | 2,262,029.81326 | 39.41284 | -108.11233 | |
| 4,835.94 | 0.00 | 0.00 | 3,912.97 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| Vertical | | | | | | | | | | |
| 4,900.00 | 0.00 | 0.00 | 3,977.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,000.00 | 0.00 | 0.00 | 4,077.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,100.00 | 0.00 | 0.00 | 4,177.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,200.00 | 0.00 | 0.00 | 4,277.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,300.00 | 0.00 | 0.00 | 4,377.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,400.00 | 0.00 | 0.00 | 4,477.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,463.97 | 0.00 | 0.00 | 4,541.00 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| Cameo Coals | | | | | | | | | | |
| 5,500.00 | 0.00 | 0.00 | 4,577.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,600.00 | 0.00 | 0.00 | 4,677.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,700.00 | 0.00 | 0.00 | 4,777.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,800.00 | 0.00 | 0.00 | 4,877.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,900.00 | 0.00 | 0.00 | 4,977.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 5,939.97 | 0.00 | 0.00 | 5,017.00 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| Rollins SS | | | | | | | | | | |
| 6,000.00 | 0.00 | 0.00 | 5,077.03 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| 6,039.97 | 0.00 | 0.00 | 5,117.00 | 1,938.71 | -1,456.94 | 1,585,869.54313 | 2,262,029.65210 | 39.41284 | -108.11233 | |
| TD at 6039.97 | | | | | | | | | | |

WPX
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| | | | |
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| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well SG 531-28 (A11) - Slot A11 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KB @ 5143.00usft (H&P 318) |
| Project: | SG 28-07S-096W | MD Reference: | KB @ 5143.00usft (H&P 318) |
| Site: | SG 43-28 Pad | North Reference: | True |
| Well: | SG 531-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #4 ST 2nov14 DM | | |

| Design Targets | | | | | | | | | |
|---------------------------------------------------------------------------------|-----------|-----------|----------|----------|-----------|-----------------|-----------------|----------|------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (bearing) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| - Shape | | | | | | | | | |
| Top Gas (50' Radius) SC - plan hits target center - Circle (radius 50.00) | 0.00 | 0.00 | 3,515.00 | 1,910.73 | -1,436.22 | 1,585,840.98000 | 2,262,049.56000 | 39.41277 | -108.11226 |

| Casing Points | | | | |
|----------------|----------------|-------------------------------|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | Casing Diameter | Hole Diameter |
| (usft) | (usft) | | (in) | (in) |
| 1,730.55 | 1,490.00 | 9 5/8" Setting Depth 1730' MD | 9.625 | 13.500 |

| Formations | | | | | |
|----------------|----------------|------------------|-----------|------|---------------|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction |
| (usft) | (usft) | | | (°) | (bearing) |
| 702.27 | 690.00 | Top of G Sand | | 0.00 | |
| 809.54 | 790.00 | Bottom of G Sand | | | |
| 2,852.48 | 2,168.00 | Mesaverde | | | |
| 4,437.97 | 3,517.00 | Top Gas | | | |
| 5,463.97 | 4,541.00 | Cameo Coals | | | |
| 5,939.97 | 5,017.00 | Rollins SS | | | |
| 6,039.97 | 5,117.00 | TD | | | |

| Plan Annotations | | | | | |
|------------------|----------------|-------------------|-----------|----------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment | |
| (usft) | (usft) | +N/-S | +E/-W | | |
| | | (usft) | (usft) | | |
| 1,210.00 | 1,129.89 | 281.85 | -210.63 | Start DLS 3.00 TFO -30.00 | |
| 1,510.00 | 1,348.62 | 439.23 | -341.78 | Start DLS 3.50 TFO 41.44 | |
| 1,727.05 | 1,487.90 | 567.78 | -447.23 | Hold 53.03 Inclination | |
| 2,714.80 | 2,081.94 | 1,203.34 | -915.01 | Start DLS 2.50 TFO -179.96 | |
| 4,435.94 | 3,515.00 | 1,910.73 | -1,436.22 | Start Drop -2.50 | |
| 4,835.94 | 3,912.97 | 1,938.71 | -1,456.94 | Vertical | |
| 6,039.97 | 5,117.00 | 1,938.71 | -1,456.94 | TD at 6039.97 | |