

PICEANCE VLY NAD 83

GV 28-06S-096W

GM 323-28 Pad

GM 342-28 - Slot 2A05

Wellbore #1

Plan: Design #1 08Apr14 mab

Standard Planning Report - Geographic

25 June, 2014

WPX
Planning Report - Geographic

| | | | |
|------------------|-----------------------|-------------------------------------|---|
| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well GM 342-28 - Slot 2A05 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Project: | GV 28-06S-096W | MD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Site: | GM 323-28 Pad | North Reference: | True |
| Well: | GM 342-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Apr14 mab | | |

| | | | |
|--------------------|-----------------------------|----------------------|-----------------------------|
| Project | GV 28-06S-096W, 28-06S-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 |

| | | | | |
|------------------------------|---------------|---------------------|-------------------|----------------------------------|
| Site | GM 323-28 Pad | | | |
| Site Position: | | Northing: | 1,614,757.30 usft | Latitude: 39.49213 |
| From: Map | | Easting: | 2,262,158.50 usft | Longitude: -108.11482 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.65 ° |

| | | | | |
|-----------------------------|-----------------------|-----------|----------------------------|-------------------|
| Well | GM 342-28 - Slot 2A05 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,614,755.10 usft |
| | +E/-W | 0.00 usft | Easting: | 2,262,176.40 usft |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | 0.00 usft |
| | | | Ground Level: | 5,476.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 4/8/2014 | 10.01 | 65.65 | 51,997 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------------|
| Design | Design #1 08Apr14 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 | 49.11 |

| 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 | |
| 1,526.33 | 49.22 | 49.11 | 1,359.62 | 371.71 | 429.25 | 3.50 | 3.50 | 0.00 | 49.11 | |
| 3,441.77 | 49.22 | 49.11 | 2,610.67 | 1,321.22 | 1,525.72 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,902.85 | 0.00 | 0.00 | 4,780.00 | 1,971.72 | 2,276.90 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,002.85 | 0.00 | 0.00 | 4,880.00 | 1,971.72 | 2,276.90 | 0.00 | 0.00 | 0.00 | 0.00 | Top Gas (50' Radius) |
| 7,952.85 | 0.00 | 0.00 | 6,830.00 | 1,971.72 | 2,276.90 | 0.00 | 0.00 | 0.00 | 0.00 | |

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| Project: | GV 28-06S-096W | MD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Site: | GM 323-28 Pad | North Reference: | True |
| Well: | GM 342-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Apr14 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 | 1,614,755.10 | 2,262,176.40 | 39.49213 | -108.11476 | |
| 120.00 | 0.00 | 0.00 | 120.00 | 0.00 | 0.00 | 1,614,755.10 | 2,262,176.40 | 39.49213 | -108.11476 | |
| Start Build 3.50 | | | | | | | | | | |
| 200.00 | 2.80 | 49.11 | 199.97 | 1.28 | 1.48 | 1,614,756.33 | 2,262,177.91 | 39.49213 | -108.11475 | |
| 400.00 | 9.80 | 49.11 | 398.64 | 15.64 | 18.06 | 1,614,770.21 | 2,262,194.90 | 39.49217 | -108.11469 | |
| 600.00 | 16.80 | 49.11 | 593.15 | 45.74 | 52.82 | 1,614,799.29 | 2,262,230.51 | 39.49225 | -108.11457 | |
| 800.00 | 23.80 | 49.11 | 780.61 | 91.13 | 105.24 | 1,614,843.16 | 2,262,284.21 | 39.49238 | -108.11438 | |
| 1,000.00 | 30.80 | 49.11 | 958.23 | 151.14 | 174.54 | 1,614,901.15 | 2,262,355.21 | 39.49254 | -108.11414 | |
| 1,200.00 | 37.80 | 49.11 | 1,123.34 | 224.88 | 259.68 | 1,614,972.40 | 2,262,442.44 | 39.49275 | -108.11384 | |
| 1,400.00 | 44.80 | 49.11 | 1,273.50 | 311.24 | 359.41 | 1,615,055.85 | 2,262,544.60 | 39.49298 | -108.11348 | |
| 1,526.33 | 49.22 | 49.11 | 1,359.62 | 371.71 | 429.25 | 1,615,114.29 | 2,262,616.15 | 39.49315 | -108.11324 | |
| Hold 49.22° Inc, 49.11° Az | | | | | | | | | | |
| 1,576.32 | 49.22 | 49.11 | 1,392.27 | 396.49 | 457.86 | 1,615,138.23 | 2,262,645.47 | 39.49322 | -108.11313 | |
| 9 5/8" | | | | | | | | | | |
| 1,600.00 | 49.22 | 49.11 | 1,407.74 | 408.23 | 471.42 | 1,615,149.58 | 2,262,659.35 | 39.49325 | -108.11309 | |
| 1,800.00 | 49.22 | 49.11 | 1,538.36 | 507.38 | 585.91 | 1,615,245.38 | 2,262,776.64 | 39.49352 | -108.11268 | |
| 2,000.00 | 49.22 | 49.11 | 1,668.99 | 606.52 | 700.39 | 1,615,341.18 | 2,262,893.93 | 39.49379 | -108.11228 | |
| 2,200.00 | 49.22 | 49.11 | 1,799.62 | 705.66 | 814.88 | 1,615,436.99 | 2,263,011.22 | 39.49407 | -108.11187 | |
| 2,353.69 | 49.22 | 49.11 | 1,900.00 | 781.85 | 902.86 | 1,615,510.61 | 2,263,101.35 | 39.49427 | -108.11156 | |
| Top of "G" Sand | | | | | | | | | | |
| 2,400.00 | 49.22 | 49.11 | 1,930.25 | 804.80 | 929.37 | 1,615,532.79 | 2,263,128.50 | 39.49434 | -108.11146 | |
| 2,506.80 | 49.22 | 49.11 | 2,000.00 | 857.74 | 990.50 | 1,615,583.95 | 2,263,191.14 | 39.49448 | -108.11125 | |
| Base of "G" Sand | | | | | | | | | | |
| 2,600.00 | 49.22 | 49.11 | 2,060.87 | 903.94 | 1,043.85 | 1,615,628.59 | 2,263,245.79 | 39.49461 | -108.11106 | |
| 2,800.00 | 49.22 | 49.11 | 2,191.50 | 1,003.09 | 1,158.34 | 1,615,724.39 | 2,263,363.08 | 39.49488 | -108.11065 | |
| 3,000.00 | 49.22 | 49.11 | 2,322.13 | 1,102.23 | 1,272.83 | 1,615,820.20 | 2,263,480.37 | 39.49515 | -108.11025 | |
| 3,200.00 | 49.22 | 49.11 | 2,452.76 | 1,201.37 | 1,387.32 | 1,615,916.00 | 2,263,597.66 | 39.49543 | -108.10984 | |
| 3,400.00 | 49.22 | 49.11 | 2,583.38 | 1,300.51 | 1,501.80 | 1,616,011.80 | 2,263,714.94 | 39.49570 | -108.10944 | |
| 3,441.77 | 49.22 | 49.11 | 2,610.66 | 1,321.22 | 1,525.71 | 1,616,031.81 | 2,263,739.44 | 39.49576 | -108.10935 | |
| Start Drop -2.00°/100 | | | | | | | | | | |
| 3,600.00 | 46.06 | 49.11 | 2,717.27 | 1,397.75 | 1,614.09 | 1,616,105.76 | 2,263,829.98 | 39.49597 | -108.10904 | |
| 3,800.00 | 42.06 | 49.11 | 2,860.97 | 1,488.77 | 1,719.20 | 1,616,193.72 | 2,263,937.66 | 39.49622 | -108.10867 | |
| 4,000.00 | 38.06 | 49.11 | 3,014.02 | 1,573.01 | 1,816.48 | 1,616,275.12 | 2,264,037.32 | 39.49645 | -108.10832 | |
| 4,200.00 | 34.06 | 49.11 | 3,175.67 | 1,650.06 | 1,905.45 | 1,616,349.57 | 2,264,128.47 | 39.49666 | -108.10801 | |
| 4,400.00 | 30.06 | 49.11 | 3,345.14 | 1,719.53 | 1,985.68 | 1,616,416.71 | 2,264,210.66 | 39.49685 | -108.10772 | |
| 4,600.00 | 26.06 | 49.11 | 3,521.60 | 1,781.10 | 2,056.78 | 1,616,476.20 | 2,264,283.50 | 39.49702 | -108.10747 | |
| 4,708.55 | 23.89 | 49.11 | 3,620.00 | 1,811.10 | 2,091.42 | 1,616,505.19 | 2,264,318.98 | 39.49710 | -108.10735 | |
| Mesaverde | | | | | | | | | | |
| 4,800.00 | 22.06 | 49.11 | 3,704.19 | 1,834.46 | 2,118.39 | 1,616,527.76 | 2,264,346.62 | 39.49716 | -108.10725 | |
| 5,000.00 | 18.06 | 49.11 | 3,892.02 | 1,879.36 | 2,170.24 | 1,616,571.14 | 2,264,399.73 | 39.49729 | -108.10707 | |
| 5,200.00 | 14.06 | 49.11 | 4,084.18 | 1,915.56 | 2,212.05 | 1,616,606.13 | 2,264,442.56 | 39.49739 | -108.10692 | |
| 5,400.00 | 10.06 | 49.11 | 4,279.73 | 1,942.90 | 2,243.62 | 1,616,632.55 | 2,264,474.91 | 39.49746 | -108.10681 | |
| 5,600.00 | 6.06 | 49.11 | 4,477.72 | 1,961.25 | 2,264.81 | 1,616,650.28 | 2,264,496.62 | 39.49751 | -108.10673 | |
| 5,800.00 | 2.06 | 49.11 | 4,677.17 | 1,970.51 | 2,275.50 | 1,616,659.23 | 2,264,507.57 | 39.49754 | -108.10669 | |
| 5,902.85 | 0.00 | 0.00 | 4,780.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| Vertical | | | | | | | | | | |
| 6,000.00 | 0.00 | 0.00 | 4,877.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 6,002.85 | 0.00 | 0.00 | 4,880.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 6,200.00 | 0.00 | 0.00 | 5,077.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 6,400.00 | 0.00 | 0.00 | 5,277.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 6,600.00 | 0.00 | 0.00 | 5,477.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |

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| Database: | COMPASS-PICEANCE | Local Co-ordinate Reference: | Well GM 342-28 - Slot 2A05 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Project: | GV 28-06S-096W | MD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Site: | GM 323-28 Pad | North Reference: | True |
| Well: | GM 342-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Apr14 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 | |
| 6,800.00 | 0.00 | 0.00 | 5,677.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,000.00 | 0.00 | 0.00 | 5,877.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,200.00 | 0.00 | 0.00 | 6,077.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,372.85 | 0.00 | 0.00 | 6,250.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| Cameo Coals | | | | | | | | | | |
| 7,400.00 | 0.00 | 0.00 | 6,277.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,600.00 | 0.00 | 0.00 | 6,477.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,800.00 | 0.00 | 0.00 | 6,677.15 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| 7,852.85 | 0.00 | 0.00 | 6,730.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| Rollins SS | | | | | | | | | | |
| 7,952.85 | 0.00 | 0.00 | 6,830.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |
| TD at 7952.85 - TD | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------------|------------|--------------|--------------|-----------------|----------------|----------|------------|--|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| Top Gas (50' Radius) GM - plan hits target center - Circle (radius 50.00) | 0.00 | 0.00 | 4,880.00 | 1,971.72 | 2,276.90 | 1,616,660.40 | 2,264,509.00 | 39.49754 | -108.10669 | |

| Casing Points | | | | | | |
|-----------------------|-----------------------|--------|--|--|----------------------|--------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | | Casing Diameter (in) | Hole Diameter (in) |
| 1,576.32 | 1,392.27 | 9 5/8" | | | 9.625 | 13.500 |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (bearing) | |
| 2,353.69 | 1,900.00 | Top of "G" Sand | | | | |
| 2,506.80 | 2,000.00 | Base of "G" Sand | | | | |
| 4,708.55 | 3,620.00 | Mesaverde | | | | |
| 6,002.85 | 4,880.00 | Approx. Top Gas | | | | |
| 7,372.85 | 6,250.00 | Cameo Coals | | | | |
| 7,852.85 | 6,730.00 | Rollins SS | | | | |
| 7,952.85 | 6,830.00 | TD | | | | |

WPX
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| | | | |
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| Project: | GV 28-06S-096W | MD Reference: | KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab) |
| Site: | GM 323-28 Pad | North Reference: | True |
| Well: | GM 342-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 08Apr14 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 3.50 |
| 1,526.33 | 1,359.62 | 371.71 | 429.25 | Hold 49.22° Inc, 49.11° Az |
| 3,441.77 | 2,610.66 | 1,321.22 | 1,525.71 | Start Drop -2.00°/100 |
| 5,902.85 | 4,780.00 | 1,971.72 | 2,276.90 | Vertical |
| 6,002.85 | 4,880.00 | 1,971.72 | 2,276.90 | Top Gas |
| 7,952.85 | 6,830.00 | 1,971.72 | 2,276.90 | TD at 7952.85 |