

TEP Rocky Mountain LLC

Garfield County, CO NAD83

PA 44-13

PA 521-24 - Slot B1

OH

Plan: Plan #1

Standard Planning Report

17 July, 2018

N/A
Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM_PROD | Local Co-ordinate Reference: | Well PA 521-24 - Slot B1 |
| Company: | TEP Rocky Mountain LLC | TVD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Project: | Garfield County, CO NAD83 | MD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Site: | PA 44-13 | North Reference: | True |
| Well: | PA 521-24 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Garfield County, CO NAD83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | |
|------------------------------|----------|---------------------|-----------------|-------------------------------------|
| Site | PA 44-13 | | | |
| Site Position: | | Northing: | 1,623,782.10 ft | Latitude: 39° 31' 14.301 N |
| From: Map | | Easting: | 2,311,231.60 ft | Longitude: 107° 56' 30.736 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: -1.54 ° |

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|-----------------------------|---------------------|----------|----------------------------|-------------------------------------|
| Well | PA 521-24 - Slot B1 | | | |
| Well Position | +N/-S | -43.1 ft | Northing: | 1,623,738.70 ft |
| | +E/-W | 12.9 ft | Easting: | 2,311,243.30 ft |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | Latitude: 39° 31' 13.876 N |
| | | | | Longitude: 107° 56' 30.572 W |
| | | | | Ground Level: 6,570.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2000 | 12/31/2004 | 11.43 | 66.02 | 53,064.27768752 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 224.41 |

| | | | | |
|---------------------------------|----------------------|--------------------------|------------------------------|----------------|
| Plan Survey Tool Program | Date | 7/17/2018 | | |
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.0 | 10,142.9 Plan #1 (OH) | SDI MWD | |
| | | | SDI MWD - Standard ver 1.0.1 | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,023.1 | 27.09 | 224.41 | 989.9 | -149.7 | -146.7 | 3.00 | 3.00 | 0.00 | 224.41 | |
| 6,536.6 | 27.09 | 224.41 | 5,898.3 | -1,943.6 | -1,903.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,342.9 | 0.00 | 0.00 | 7,638.0 | -2,243.1 | -2,197.2 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 10,142.9 | 0.00 | 0.00 | 9,438.0 | -2,243.1 | -2,197.2 | 0.00 | 0.00 | 0.00 | 0.00 | PA 521-24 TD |

N/A
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|------------------|---------------------------|-------------------------------------|--------------------------------------|
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| Company: | TEP Rocky Mountain LLC | TVD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Project: | Garfield County, CO NAD83 | MD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Site: | PA 44-13 | North Reference: | True |
| Well: | PA 521-24 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 2.40 | 224.41 | 200.0 | -1.2 | -1.2 | 1.7 | 3.00 | 3.00 | 0.00 |
| 300.0 | 5.40 | 224.41 | 299.7 | -6.1 | -5.9 | 8.5 | 3.00 | 3.00 | 0.00 |
| 400.0 | 8.40 | 224.41 | 399.0 | -14.6 | -14.3 | 20.5 | 3.00 | 3.00 | 0.00 |
| 500.0 | 11.40 | 224.41 | 497.5 | -26.9 | -26.4 | 37.7 | 3.00 | 3.00 | 0.00 |
| 600.0 | 14.40 | 224.41 | 595.0 | -42.9 | -42.0 | 60.0 | 3.00 | 3.00 | 0.00 |
| 700.0 | 17.40 | 224.41 | 691.1 | -62.4 | -61.2 | 87.4 | 3.00 | 3.00 | 0.00 |
| 800.0 | 20.40 | 224.41 | 785.7 | -85.6 | -83.8 | 119.8 | 3.00 | 3.00 | 0.00 |
| 900.0 | 23.40 | 224.41 | 878.5 | -112.2 | -109.9 | 157.1 | 3.00 | 3.00 | 0.00 |
| 1,000.0 | 26.40 | 224.41 | 969.2 | -142.3 | -139.4 | 199.2 | 3.00 | 3.00 | 0.00 |
| 1,023.1 | 27.09 | 224.41 | 989.9 | -149.7 | -146.7 | 209.6 | 3.00 | 3.00 | 0.00 |
| 1,100.0 | 27.09 | 224.41 | 1,058.3 | -174.7 | -171.2 | 244.6 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,200.0 | 27.09 | 224.41 | 1,147.3 | -207.3 | -203.0 | 290.1 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 27.09 | 224.41 | 1,236.3 | -239.8 | -234.9 | 335.7 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 27.09 | 224.41 | 1,325.4 | -272.3 | -266.8 | 381.2 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 27.09 | 224.41 | 1,414.4 | -304.9 | -298.6 | 426.8 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 27.09 | 224.41 | 1,503.4 | -337.4 | -330.5 | 472.3 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 27.09 | 224.41 | 1,592.4 | -370.0 | -362.4 | 517.9 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 27.09 | 224.41 | 1,681.5 | -402.5 | -394.3 | 563.4 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 27.09 | 224.41 | 1,770.5 | -435.0 | -426.1 | 609.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 27.09 | 224.41 | 1,859.5 | -467.6 | -458.0 | 654.5 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 27.09 | 224.41 | 1,948.5 | -500.1 | -489.9 | 700.1 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 27.09 | 224.41 | 2,037.6 | -532.6 | -521.7 | 745.6 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 27.09 | 224.41 | 2,126.6 | -565.2 | -553.6 | 791.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 27.09 | 224.41 | 2,215.6 | -597.7 | -585.5 | 836.7 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 27.09 | 224.41 | 2,304.6 | -630.2 | -617.4 | 882.2 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 27.09 | 224.41 | 2,393.7 | -662.8 | -649.2 | 927.8 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 27.09 | 224.41 | 2,482.7 | -695.3 | -681.1 | 973.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 27.09 | 224.41 | 2,571.7 | -727.9 | -713.0 | 1,018.9 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 27.09 | 224.41 | 2,660.8 | -760.4 | -744.8 | 1,064.4 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 27.09 | 224.41 | 2,749.8 | -792.9 | -776.7 | 1,110.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 27.09 | 224.41 | 2,838.8 | -825.5 | -808.6 | 1,155.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 27.09 | 224.41 | 2,927.8 | -858.0 | -840.5 | 1,201.1 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 27.09 | 224.41 | 3,016.9 | -890.5 | -872.3 | 1,246.6 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 27.09 | 224.41 | 3,105.9 | -923.1 | -904.2 | 1,292.1 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 27.09 | 224.41 | 3,194.9 | -955.6 | -936.1 | 1,337.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 27.09 | 224.41 | 3,283.9 | -988.1 | -967.9 | 1,383.2 | 0.00 | 0.00 | 0.00 |
| 3,665.2 | 27.09 | 224.41 | 3,342.0 | -1,009.4 | -988.7 | 1,412.9 | 0.00 | 0.00 | 0.00 |
| G SAND | | | | | | | | | |
| 3,700.0 | 27.09 | 224.41 | 3,373.0 | -1,020.7 | -999.8 | 1,428.8 | 0.00 | 0.00 | 0.00 |
| 3,769.7 | 27.09 | 224.41 | 3,435.0 | -1,043.4 | -1,022.0 | 1,460.5 | 0.00 | 0.00 | 0.00 |
| G SAND BASE | | | | | | | | | |
| 3,800.0 | 27.09 | 224.41 | 3,462.0 | -1,053.2 | -1,031.7 | 1,474.3 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 27.09 | 224.41 | 3,551.0 | -1,085.8 | -1,063.6 | 1,519.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 27.09 | 224.41 | 3,640.0 | -1,118.3 | -1,095.4 | 1,565.4 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 27.09 | 224.41 | 3,729.1 | -1,150.8 | -1,127.3 | 1,611.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 27.09 | 224.41 | 3,818.1 | -1,183.4 | -1,159.2 | 1,656.5 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 27.09 | 224.41 | 3,907.1 | -1,215.9 | -1,191.0 | 1,702.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 27.09 | 224.41 | 3,996.1 | -1,248.4 | -1,222.9 | 1,747.6 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 27.09 | 224.41 | 4,085.2 | -1,281.0 | -1,254.8 | 1,793.1 | 0.00 | 0.00 | 0.00 |

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| Project: | Garfield County, CO NAD83 | MD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Site: | PA 44-13 | North Reference: | True |
| Well: | PA 521-24 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,600.0 | 27.09 | 224.41 | 4,174.2 | -1,313.5 | -1,286.7 | 1,838.7 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 27.09 | 224.41 | 4,263.2 | -1,346.0 | -1,318.5 | 1,884.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 27.09 | 224.41 | 4,352.2 | -1,378.6 | -1,350.4 | 1,929.8 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 27.09 | 224.41 | 4,441.3 | -1,411.1 | -1,382.3 | 1,975.3 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 27.09 | 224.41 | 4,530.3 | -1,443.7 | -1,414.1 | 2,020.9 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 27.09 | 224.41 | 4,619.3 | -1,476.2 | -1,446.0 | 2,066.4 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 27.09 | 224.41 | 4,708.4 | -1,508.7 | -1,477.9 | 2,112.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 27.09 | 224.41 | 4,797.4 | -1,541.3 | -1,509.8 | 2,157.5 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 27.09 | 224.41 | 4,886.4 | -1,573.8 | -1,541.6 | 2,203.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 27.09 | 224.41 | 4,975.4 | -1,606.3 | -1,573.5 | 2,248.6 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 27.09 | 224.41 | 5,064.5 | -1,638.9 | -1,605.4 | 2,294.1 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 27.09 | 224.41 | 5,153.5 | -1,671.4 | -1,637.2 | 2,339.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 27.09 | 224.41 | 5,242.5 | -1,703.9 | -1,669.1 | 2,385.2 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 27.09 | 224.41 | 5,331.5 | -1,736.5 | -1,701.0 | 2,430.8 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 27.09 | 224.41 | 5,420.6 | -1,769.0 | -1,732.9 | 2,476.3 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 27.09 | 224.41 | 5,509.6 | -1,801.6 | -1,764.7 | 2,521.9 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 27.09 | 224.41 | 5,598.6 | -1,834.1 | -1,796.6 | 2,567.4 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 27.09 | 224.41 | 5,687.6 | -1,866.6 | -1,828.5 | 2,613.0 | 0.00 | 0.00 | 0.00 |
| 6,377.9 | 27.09 | 224.41 | 5,757.0 | -1,892.0 | -1,853.3 | 2,648.5 | 0.00 | 0.00 | 0.00 |
| MVRD | | | | | | | | | |
| 6,400.0 | 27.09 | 224.41 | 5,776.7 | -1,899.2 | -1,860.3 | 2,658.5 | 0.00 | 0.00 | 0.00 |
| 6,440.8 | 27.09 | 224.41 | 5,813.0 | -1,912.4 | -1,873.3 | 2,677.1 | 0.00 | 0.00 | 0.00 |
| WFRK/UMVRD | | | | | | | | | |
| 6,500.0 | 27.09 | 224.41 | 5,865.7 | -1,931.7 | -1,892.2 | 2,704.1 | 0.00 | 0.00 | 0.00 |
| 6,536.6 | 27.09 | 224.41 | 5,898.3 | -1,943.6 | -1,903.9 | 2,720.7 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 26.14 | 224.41 | 5,955.0 | -1,963.9 | -1,923.8 | 2,749.1 | 1.50 | -1.50 | 0.00 |
| 6,700.0 | 24.64 | 224.41 | 6,045.3 | -1,994.5 | -1,953.8 | 2,792.0 | 1.50 | -1.50 | 0.00 |
| 6,800.0 | 23.14 | 224.41 | 6,136.7 | -2,023.5 | -1,982.1 | 2,832.5 | 1.50 | -1.50 | 0.00 |
| 6,900.0 | 21.64 | 224.41 | 6,229.2 | -2,050.7 | -2,008.8 | 2,870.6 | 1.50 | -1.50 | 0.00 |
| 7,000.0 | 20.14 | 224.41 | 6,322.6 | -2,076.2 | -2,033.7 | 2,906.3 | 1.50 | -1.50 | 0.00 |
| 7,100.0 | 18.64 | 224.41 | 6,416.9 | -2,099.9 | -2,057.0 | 2,939.5 | 1.50 | -1.50 | 0.00 |
| 7,200.0 | 17.14 | 224.41 | 6,512.1 | -2,121.8 | -2,078.5 | 2,970.2 | 1.50 | -1.50 | 0.00 |
| 7,300.0 | 15.64 | 224.41 | 6,608.0 | -2,142.0 | -2,098.2 | 2,998.4 | 1.50 | -1.50 | 0.00 |
| 7,400.0 | 14.14 | 224.41 | 6,704.6 | -2,160.3 | -2,116.2 | 3,024.1 | 1.50 | -1.50 | 0.00 |
| 7,500.0 | 12.64 | 224.41 | 6,801.9 | -2,176.9 | -2,132.4 | 3,047.3 | 1.50 | -1.50 | 0.00 |
| 7,600.0 | 11.14 | 224.41 | 6,899.8 | -2,191.6 | -2,146.8 | 3,067.9 | 1.50 | -1.50 | 0.00 |
| 7,628.8 | 10.71 | 224.41 | 6,928.0 | -2,195.5 | -2,150.6 | 3,073.3 | 1.50 | -1.50 | 0.00 |
| TOP GAS | | | | | | | | | |
| 7,700.0 | 9.64 | 224.41 | 6,998.1 | -2,204.5 | -2,159.4 | 3,085.9 | 1.50 | -1.50 | 0.00 |
| 7,800.0 | 8.14 | 224.41 | 7,096.9 | -2,215.5 | -2,170.3 | 3,101.4 | 1.50 | -1.50 | 0.00 |
| 7,900.0 | 6.64 | 224.41 | 7,196.1 | -2,224.7 | -2,179.3 | 3,114.3 | 1.50 | -1.50 | 0.00 |
| 8,000.0 | 5.14 | 224.41 | 7,295.6 | -2,232.1 | -2,186.4 | 3,124.5 | 1.50 | -1.50 | 0.00 |
| 8,100.0 | 3.64 | 224.41 | 7,395.3 | -2,237.5 | -2,191.8 | 3,132.2 | 1.50 | -1.50 | 0.00 |
| 8,200.0 | 2.14 | 224.41 | 7,495.1 | -2,241.2 | -2,195.3 | 3,137.2 | 1.50 | -1.50 | 0.00 |
| 8,300.0 | 0.64 | 224.41 | 7,595.1 | -2,242.9 | -2,197.0 | 3,139.7 | 1.50 | -1.50 | 0.00 |
| 8,342.9 | 0.00 | 0.00 | 7,638.0 | -2,243.1 | -2,197.2 | 3,139.9 | 1.50 | -1.50 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 7,695.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 7,795.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 7,895.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 7,995.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,095.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,195.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,295.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 |

N/A
Planning Report

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| Company: | TEP Rocky Mountain LLC | TVD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Project: | Garfield County, CO NAD83 | MD Reference: | WELL @ 6594.0ft (Original Well Elev) |
| Site: | PA 44-13 | North Reference: | True |
| Well: | PA 521-24 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 9,096.9 | 0.00 | 0.00 | 8,392.0 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| CMEO | | | | | | | | | | |
| 9,100.0 | 0.00 | 0.00 | 8,395.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 8,495.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 8,595.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 8,695.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 8,795.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 8,895.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 8,995.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,095.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,195.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 9,992.9 | 0.00 | 0.00 | 9,288.0 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| RLNS | | | | | | | | | | |
| 10,000.0 | 0.00 | 0.00 | 9,295.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 9,395.1 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| 10,142.9 | 0.00 | 0.00 | 9,438.0 | -2,243.1 | -2,197.2 | 3,139.9 | 0.00 | 0.00 | 0.00 | |
| PA 521-24 TD | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|------------------|-------------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude | |
| PA 521-24 TD | 0.00 | 0.00 | 9,438.0 | -2,243.1 | -2,197.2 | 1,621,555.50 | 2,308,986.60 | 39° 30' 51.705 N | 107° 56' 58.609 W | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| - plan hits target center | | | | | | | | | | |
| - Point | | | | | | | | | | |

| Casing Points | | | | | | | | | | |
|---------------------|---------------------|--------|--|--|--|--|----------------------|--------------------|--|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | | | | | Casing Diameter (in) | Hole Diameter (in) | | |
| 1,100.0 | 1,058.3 | 9 5/8" | | | | | 9.625 | 13.500 | | |

| Formations | | | | | | | | | | |
|---------------------|---------------------|-------------|-----------|---------|-------------------|--|--|--|--|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | | | | | |
| 3,665.2 | 3,342.0 | G SAND | | 0.00 | | | | | | |
| 3,769.7 | 3,435.0 | G SAND BASE | | 0.00 | | | | | | |
| 6,377.9 | 5,757.0 | MVRD | | 0.00 | | | | | | |
| 6,440.8 | 5,813.0 | WFRK/UMVRD | | 0.00 | | | | | | |
| 7,628.8 | 6,928.0 | TOP GAS | | 0.00 | | | | | | |
| 9,096.9 | 8,392.0 | CMEO | | 0.00 | | | | | | |
| 9,992.9 | 9,288.0 | RLNS | | 0.00 | | | | | | |