

# Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#127H

OH

Plan: Prelim C

## Standard Planning Report

14 March, 2019

# Pro Directional

## Planning Report

Database: WellPlanner1  
 Company: Matador Resources  
 Project: Eddy County, NM (NAD27)  
 Site: Stebbins Federal 19  
 Well: #127H  
 Wellbore: OH  
 Design: Prelim C

Local Co-ordinate Reference: Well #127H  
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
 North Reference: Grid  
 Survey/Calculation Method: Minimum Curvature

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project:    | Eddy County, NM (NAD27)              |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

Site: Stebbins Federal 19

Site Position: Northing: 564,789.00 usft Latitude: 32.552507  
 From: Map Easting: 570,139.00 usft Longitude: -104.105700  
 Position Uncertainty: 3.30 usft Slot Radius: 13-3/16 " Grid Convergence: 0.12 °

Well: #127H  
 Well Position: +N/-S 2,017.00 usft Northing: 566,806.00 usft Latitude: 32.558053  
 +E/-W -315.00 usft Easting: 569,824.00 usft Longitude: -104.106708  
 Position Uncertainty: 0.00 usft Wellhead Elevation: Ground Level: 3,248.00 usft

Wellbore: OH

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | HDGM       | 3/5/2019    | 7.23               | 60.32            | 48,004.30              |

Design: Prelim C

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|-------------------|----------------------------|-----------------|-----------------|------------------|
|                   | 0.00                       | 0.00            | 0.00            | 269.95           |

Plan Survey Tool Program Date: 3/14/2019

| Depth From<br>(usft) | Depth To<br>(usft) | Survey (Wellbore) | Tool Name     | Remarks                     |
|----------------------|--------------------|-------------------|---------------|-----------------------------|
| 1                    | 0.00               | 12,726.21         | Prelim C (OH) | MWD+HDGM<br>OWSG MWD + HRGM |

Plan Sections

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target             |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|--------------------|
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 1,500.00                    | 0.00               | 0.00           | 1,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 2,022.15                    | 10.44              | 156.29         | 2,019.27                    | -43.45          | 19.08           | 2.00                          | 2.00                         | 0.00                        | 156.29     |                    |
| 6,891.31                    | 10.44              | 156.29         | 6,807.77                    | -851.55         | 373.92          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 7,413.47                    | 0.00               | 0.00           | 7,327.04                    | -895.00         | 393.00          | 2.00                          | -2.00                        | 0.00                        | 180.00     |                    |
| 8,313.47                    | 90.00              | 263.70         | 7,900.00                    | -957.87         | -176.50         | 10.00                         | 10.00                        | 0.00                        | 263.70     |                    |
| 8,625.79                    | 90.00              | 269.95         | 7,900.00                    | -975.17         | -488.19         | 2.00                          | 0.00                         | 2.00                        | 90.00      |                    |
| 12,726.61                   | 90.00              | 269.95         | 7,900.00                    | -979.00         | -4,589.00       | 0.00                          | 0.00                         | 0.00                        | 0.00       | LTP (Stebbins Fed) |

# Pro Directional Planning Report

Database: WellPlanner1  
Company: Matador Resources  
Project: Eddy County, NM (NAD27)  
Site: Stebbins Federal 19  
Well: #127H  
Wellbore: OH  
Design: Prelim C

Local Co-ordinate Reference: Well #127H  
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Palt 809)  
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Palt 809)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 100.00                      | 0.00               | 0.00           | 100.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 200.00                      | 0.00               | 0.00           | 200.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 300.00                      | 0.00               | 0.00           | 300.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 301.33                      | 0.00               | 0.00           | 301.33                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Rustler</b>              |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 400.00                      | 0.00               | 0.00           | 400.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>20"</b>                  |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 442.04                      | 0.00               | 0.00           | 442.04                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Top Salt</b>             |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 500.00                      | 0.00               | 0.00           | 500.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 600.00                      | 0.00               | 0.00           | 600.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 700.00                      | 0.00               | 0.00           | 700.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 800.00                      | 0.00               | 0.00           | 800.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 900.00                      | 0.00               | 0.00           | 900.00                      | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,000.00                    | 0.00               | 0.00           | 1,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,100.00                    | 0.00               | 0.00           | 1,100.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,200.00                    | 0.00               | 0.00           | 1,200.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>13 3/8"</b>              |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 1,300.00                    | 0.00               | 0.00           | 1,300.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,387.39                    | 0.00               | 0.00           | 1,387.39                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Capitan (T)</b>          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 1,400.00                    | 0.00               | 0.00           | 1,400.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,500.00                    | 0.00               | 0.00           | 1,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,600.00                    | 2.00               | 156.29         | 1,599.98                    | -1.60           | 0.70            | -0.70                         | 2.00                          | 2.00                         | 0.00                        |
| 1,677.01                    | 3.54               | 156.29         | 1,676.89                    | -5.01           | 2.20            | -2.19                         | 2.00                          | 2.00                         | 0.00                        |
| <b>Seven Rivers</b>         |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 1,700.00                    | 4.00               | 156.29         | 1,699.84                    | -6.39           | 2.81            | -2.80                         | 2.00                          | 2.00                         | 0.00                        |
| 1,800.00                    | 6.00               | 156.29         | 1,799.45                    | -14.37          | 6.31            | -6.30                         | 2.00                          | 2.00                         | 0.00                        |
| 1,900.00                    | 8.00               | 156.29         | 1,898.70                    | -25.53          | 11.21           | -11.19                        | 2.00                          | 2.00                         | 0.00                        |
| 2,000.00                    | 10.00              | 156.29         | 1,997.47                    | -39.85          | 17.50           | -17.46                        | 2.00                          | 2.00                         | 0.00                        |
| 2,022.15                    | 10.44              | 156.29         | 2,019.27                    | -43.45          | 19.08           | -19.04                        | 2.00                          | 2.00                         | 0.00                        |
| 2,100.00                    | 10.44              | 156.29         | 2,095.82                    | -56.37          | 24.75           | -24.70                        | 0.00                          | 0.00                         | 0.00                        |
| 2,200.00                    | 10.44              | 156.29         | 2,194.17                    | -72.97          | 32.04           | -31.98                        | 0.00                          | 0.00                         | 0.00                        |
| 2,300.00                    | 10.44              | 156.29         | 2,292.51                    | -89.56          | 39.33           | -39.25                        | 0.00                          | 0.00                         | 0.00                        |
| 2,400.00                    | 10.44              | 156.29         | 2,390.85                    | -106.16         | 46.61           | -46.52                        | 0.00                          | 0.00                         | 0.00                        |
| 2,500.00                    | 10.44              | 156.29         | 2,489.20                    | -122.75         | 53.90           | -53.80                        | 0.00                          | 0.00                         | 0.00                        |
| 2,600.00                    | 10.44              | 156.29         | 2,587.54                    | -139.35         | 61.19           | -61.07                        | 0.00                          | 0.00                         | 0.00                        |
| 2,700.00                    | 10.44              | 156.29         | 2,685.89                    | -155.95         | 68.48           | -68.34                        | 0.00                          | 0.00                         | 0.00                        |
| 2,800.00                    | 10.44              | 156.29         | 2,784.23                    | -172.54         | 75.76           | -75.61                        | 0.00                          | 0.00                         | 0.00                        |
| 2,900.00                    | 10.44              | 156.29         | 2,882.57                    | -189.14         | 83.05           | -82.89                        | 0.00                          | 0.00                         | 0.00                        |
| 3,000.00                    | 10.44              | 156.29         | 2,980.92                    | -205.74         | 90.34           | -90.16                        | 0.00                          | 0.00                         | 0.00                        |
| 3,100.00                    | 10.44              | 156.29         | 3,079.26                    | -222.33         | 97.63           | -97.43                        | 0.00                          | 0.00                         | 0.00                        |
| 3,121.09                    | 10.44              | 156.29         | 3,100.00                    | -225.83         | 99.16           | -98.97                        | 0.00                          | 0.00                         | 0.00                        |
| <b>9 5/8"</b>               |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 3,200.00                    | 10.44              | 156.29         | 3,177.60                    | -238.93         | 104.91          | -104.71                       | 0.00                          | 0.00                         | 0.00                        |
| 3,221.17                    | 10.44              | 156.29         | 3,198.42                    | -242.44         | 106.46          | -106.25                       | 0.00                          | 0.00                         | 0.00                        |
| <b>Cherry Cyn.</b>          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 3,300.00                    | 10.44              | 156.29         | 3,275.95                    | -255.52         | 112.20          | -111.98                       | 0.00                          | 0.00                         | 0.00                        |
| 3,400.00                    | 10.44              | 156.29         | 3,374.29                    | -272.12         | 119.49          | -119.25                       | 0.00                          | 0.00                         | 0.00                        |
| 3,500.00                    | 10.44              | 156.29         | 3,472.63                    | -288.72         | 126.78          | -126.53                       | 0.00                          | 0.00                         | 0.00                        |
| 3,600.00                    | 10.44              | 156.29         | 3,570.98                    | -305.31         | 134.07          | -133.80                       | 0.00                          | 0.00                         | 0.00                        |
| 3,700.00                    | 10.44              | 156.29         | 3,669.32                    | -321.91         | 141.35          | -141.07                       | 0.00                          | 0.00                         | 0.00                        |

# Pro Directional Planning Report

Database: WellPlanner1  
Company: Matador Resources  
Project: Eddy County, NM (NAD27)  
Site: Stebbins Federal 19  
Well: #127H  
Wellbore: OH  
Design: Prelim C

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:

Well #127H  
3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
Grid  
Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft)         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-------------------------------------|--------------------|----------------|-----------------------------|---------------|---------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 3,800.00                            | 10.44              | 156.29         | 3,767.66                    | -338.51       | 148.64        | -148.34                       | 0.00                          | 0.00                         | 0.00                        |
| 3,900.00                            | 10.44              | 156.29         | 3,866.01                    | -355.10       | 155.93        | -155.62                       | 0.00                          | 0.00                         | 0.00                        |
| 4,000.00                            | 10.44              | 156.29         | 3,964.35                    | -371.70       | 163.22        | -162.89                       | 0.00                          | 0.00                         | 0.00                        |
| 4,100.00                            | 10.44              | 156.29         | 4,062.70                    | -388.30       | 170.50        | -170.16                       | 0.00                          | 0.00                         | 0.00                        |
| 4,157.80                            | 10.44              | 156.29         | 4,119.54                    | -397.89       | 174.72        | -174.37                       | 0.00                          | 0.00                         | 0.00                        |
| <b>Brushy Cyn.</b>                  |                    |                |                             |               |               |                               |                               |                              |                             |
| 4,200.00                            | 10.44              | 156.29         | 4,161.04                    | -404.89       | 177.79        | -177.44                       | 0.00                          | 0.00                         | 0.00                        |
| 4,300.00                            | 10.44              | 156.29         | 4,259.38                    | -421.49       | 185.08        | -184.71                       | 0.00                          | 0.00                         | 0.00                        |
| 4,400.00                            | 10.44              | 156.29         | 4,357.73                    | -438.08       | 192.37        | -191.98                       | 0.00                          | 0.00                         | 0.00                        |
| 4,500.00                            | 10.44              | 156.29         | 4,456.07                    | -454.68       | 199.65        | -199.26                       | 0.00                          | 0.00                         | 0.00                        |
| 4,600.00                            | 10.44              | 156.29         | 4,554.41                    | -471.28       | 206.94        | -206.53                       | 0.00                          | 0.00                         | 0.00                        |
| 4,700.00                            | 10.44              | 156.29         | 4,652.76                    | -487.87       | 214.23        | -213.80                       | 0.00                          | 0.00                         | 0.00                        |
| 4,800.00                            | 10.44              | 156.29         | 4,751.10                    | -504.47       | 221.52        | -221.08                       | 0.00                          | 0.00                         | 0.00                        |
| 4,900.00                            | 10.44              | 156.29         | 4,849.44                    | -521.07       | 228.80        | -228.35                       | 0.00                          | 0.00                         | 0.00                        |
| 5,000.00                            | 10.44              | 156.29         | 4,947.79                    | -537.66       | 236.09        | -235.62                       | 0.00                          | 0.00                         | 0.00                        |
| 5,100.00                            | 10.44              | 156.29         | 5,046.13                    | -554.26       | 243.38        | -242.89                       | 0.00                          | 0.00                         | 0.00                        |
| 5,200.00                            | 10.44              | 156.29         | 5,144.47                    | -570.85       | 250.67        | -250.17                       | 0.00                          | 0.00                         | 0.00                        |
| 5,300.00                            | 10.44              | 156.29         | 5,242.82                    | -587.45       | 257.95        | -257.44                       | 0.00                          | 0.00                         | 0.00                        |
| 5,400.00                            | 10.44              | 156.29         | 5,341.16                    | -604.05       | 265.24        | -264.71                       | 0.00                          | 0.00                         | 0.00                        |
| 5,500.00                            | 10.44              | 156.29         | 5,439.51                    | -620.64       | 272.53        | -271.99                       | 0.00                          | 0.00                         | 0.00                        |
| 5,600.00                            | 10.44              | 156.29         | 5,537.85                    | -637.24       | 279.82        | -279.26                       | 0.00                          | 0.00                         | 0.00                        |
| 5,700.00                            | 10.44              | 156.29         | 5,636.19                    | -653.84       | 287.10        | -286.53                       | 0.00                          | 0.00                         | 0.00                        |
| 5,800.00                            | 10.44              | 156.29         | 5,734.54                    | -670.43       | 294.39        | -293.81                       | 0.00                          | 0.00                         | 0.00                        |
| 5,818.18                            | 10.44              | 156.29         | 5,752.41                    | -673.45       | 295.72        | -295.13                       | 0.00                          | 0.00                         | 0.00                        |
| <b>Bone Spring Lime</b>             |                    |                |                             |               |               |                               |                               |                              |                             |
| 5,900.00                            | 10.44              | 156.29         | 5,832.88                    | -687.03       | 301.68        | -301.08                       | 0.00                          | 0.00                         | 0.00                        |
| 6,000.00                            | 10.44              | 156.29         | 5,931.22                    | -703.63       | 308.97        | -308.35                       | 0.00                          | 0.00                         | 0.00                        |
| 6,100.00                            | 10.44              | 156.29         | 6,029.57                    | -720.22       | 316.25        | -315.63                       | 0.00                          | 0.00                         | 0.00                        |
| 6,124.32                            | 10.44              | 156.29         | 6,053.48                    | -724.26       | 318.03        | -317.39                       | 0.00                          | 0.00                         | 0.00                        |
| <b>U. Avalon Shale</b>              |                    |                |                             |               |               |                               |                               |                              |                             |
| 6,200.00                            | 10.44              | 156.29         | 6,127.91                    | -736.82       | 323.54        | -322.90                       | 0.00                          | 0.00                         | 0.00                        |
| 6,288.36                            | 10.44              | 156.29         | 6,214.81                    | -751.48       | 329.98        | -329.32                       | 0.00                          | 0.00                         | 0.00                        |
| <b>Avalon Carb</b>                  |                    |                |                             |               |               |                               |                               |                              |                             |
| 6,300.00                            | 10.44              | 156.29         | 6,226.25                    | -753.41       | 330.83        | -330.17                       | 0.00                          | 0.00                         | 0.00                        |
| 6,400.00                            | 10.44              | 156.29         | 6,324.60                    | -770.01       | 338.12        | -337.44                       | 0.00                          | 0.00                         | 0.00                        |
| 6,469.60                            | 10.44              | 156.29         | 6,393.04                    | -781.56       | 343.19        | -342.51                       | 0.00                          | 0.00                         | 0.00                        |
| <b>L. Avalon Shale</b>              |                    |                |                             |               |               |                               |                               |                              |                             |
| 6,500.00                            | 10.44              | 156.29         | 6,422.94                    | -786.61       | 345.40        | -344.72                       | 0.00                          | 0.00                         | 0.00                        |
| 6,523.65                            | 10.44              | 156.29         | 6,446.20                    | -790.53       | 347.13        | -346.44                       | 0.00                          | 0.00                         | 0.00                        |
| <b>First Bone Spring Carb</b>       |                    |                |                             |               |               |                               |                               |                              |                             |
| 6,600.00                            | 10.44              | 156.29         | 6,521.28                    | -803.20       | 352.69        | -351.99                       | 0.00                          | 0.00                         | 0.00                        |
| 6,700.00                            | 10.44              | 156.29         | 6,619.63                    | -819.80       | 359.98        | -359.26                       | 0.00                          | 0.00                         | 0.00                        |
| 6,800.00                            | 10.44              | 156.29         | 6,717.97                    | -836.40       | 367.27        | -366.54                       | 0.00                          | 0.00                         | 0.00                        |
| 6,891.31                            | 10.44              | 156.29         | 6,807.77                    | -851.55       | 373.92        | -373.18                       | 0.00                          | 0.00                         | 0.00                        |
| 6,900.00                            | 10.27              | 156.29         | 6,816.32                    | -852.98       | 374.55        | -373.80                       | 2.00                          | -2.00                        | 0.00                        |
| 7,000.00                            | 8.27               | 156.29         | 6,915.01                    | -867.73       | 381.02        | -380.27                       | 2.00                          | -2.00                        | 0.00                        |
| 7,100.00                            | 6.27               | 156.29         | 7,014.20                    | -879.31       | 386.11        | -385.34                       | 2.00                          | -2.00                        | 0.00                        |
| 7,102.04                            | 6.23               | 156.29         | 7,016.23                    | -879.52       | 386.20        | -385.43                       | 2.00                          | -2.00                        | 0.00                        |
| <b>First Bone Spring Sand</b>       |                    |                |                             |               |               |                               |                               |                              |                             |
| 7,200.00                            | 4.27               | 156.29         | 7,113.77                    | -887.72       | 389.80        | -389.03                       | 2.00                          | -2.00                        | 0.00                        |
| 7,235.46                            | 3.56               | 156.29         | 7,149.15                    | -889.94       | 390.78        | -390.00                       | 2.00                          | -2.00                        | 0.00                        |
| <b>Second Bone Spring Carbonate</b> |                    |                |                             |               |               |                               |                               |                              |                             |
| 7,300.00                            | 2.27               | 156.29         | 7,213.60                    | -892.94       | 392.10        | -391.32                       | 2.00                          | -2.00                        | 0.00                        |

# Pro Directional Planning Report

Database: WellPlanner1  
Company: Matador Resources  
Project: Eddy County, NM (NAD27)  
Site: Stebbins Federal 19  
Well: #127H  
Wellbore: OH  
Design: Prelim C

Local Co-ordinate Reference: Well #127H  
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft)    | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|--------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 7,400.00                       | 0.27               | 156.29         | 7,313.57                    | -894.97         | 392.99          | -392.21                       | 2.00                          | -2.00                        | 0.00                        |
| 7,413.47                       | 0.00               | 0.00           | 7,327.04                    | -895.00         | 393.00          | -392.22                       | 2.00                          | -2.00                        | 0.00                        |
| 7,450.00                       | 3.65               | 263.70         | 7,363.55                    | -895.13         | 391.84          | -391.06                       | 10.00                         | 10.00                        | 0.00                        |
| 7,500.00                       | 8.65               | 263.70         | 7,413.24                    | -895.72         | 386.52          | -385.74                       | 10.00                         | 10.00                        | 0.00                        |
| 7,550.00                       | 13.65              | 263.70         | 7,462.28                    | -896.78         | 376.91          | -376.12                       | 10.00                         | 10.00                        | 0.00                        |
| 7,600.00                       | 18.65              | 263.70         | 7,510.29                    | -898.30         | 363.09          | -362.30                       | 10.00                         | 10.00                        | 0.00                        |
| 7,650.00                       | 23.65              | 263.70         | 7,556.91                    | -900.28         | 345.16          | -344.37                       | 10.00                         | 10.00                        | 0.00                        |
| 7,678.91                       | 26.54              | 263.70         | 7,583.09                    | -901.63         | 332.97          | -332.18                       | 10.00                         | 10.00                        | 0.00                        |
| <b>Second Bone Spring Sand</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 7,700.00                       | 28.65              | 263.70         | 7,601.78                    | -902.70         | 323.26          | -322.47                       | 10.00                         | 10.00                        | 0.00                        |
| 7,750.00                       | 33.65              | 263.70         | 7,644.55                    | -905.54         | 297.56          | -296.77                       | 10.00                         | 10.00                        | 0.00                        |
| 7,800.00                       | 38.65              | 263.70         | 7,684.91                    | -908.77         | 268.25          | -267.45                       | 10.00                         | 10.00                        | 0.00                        |
| 7,850.00                       | 43.65              | 263.70         | 7,722.55                    | -912.38         | 235.55          | -234.76                       | 10.00                         | 10.00                        | 0.00                        |
| 7,900.00                       | 48.65              | 263.70         | 7,757.17                    | -916.34         | 199.72          | -198.92                       | 10.00                         | 10.00                        | 0.00                        |
| 7,950.00                       | 53.65              | 263.70         | 7,788.53                    | -920.61         | 161.03          | -160.22                       | 10.00                         | 10.00                        | 0.00                        |
| 8,000.00                       | 58.65              | 263.70         | 7,816.37                    | -925.17         | 119.76          | -118.96                       | 10.00                         | 10.00                        | 0.00                        |
| 8,050.00                       | 63.65              | 263.70         | 7,840.48                    | -929.97         | 76.25           | -75.44                        | 10.00                         | 10.00                        | 0.00                        |
| 8,100.00                       | 68.65              | 263.70         | 7,860.69                    | -934.99         | 30.81           | -29.99                        | 10.00                         | 10.00                        | 0.00                        |
| 8,150.00                       | 73.65              | 263.70         | 7,876.84                    | -940.18         | -16.21          | 17.03                         | 10.00                         | 10.00                        | 0.00                        |
| 8,200.00                       | 78.65              | 263.70         | 7,888.80                    | -945.50         | -64.45          | 65.28                         | 10.00                         | 10.00                        | 0.00                        |
| 8,250.00                       | 83.65              | 263.70         | 7,896.49                    | -950.92         | -113.54         | 114.37                        | 10.00                         | 10.00                        | 0.00                        |
| 8,300.00                       | 88.65              | 263.70         | 7,899.84                    | -956.40         | -163.11         | 163.95                        | 10.00                         | 10.00                        | 0.00                        |
| 8,313.47                       | 90.00              | 263.70         | 7,900.00                    | -957.87         | -176.50         | 177.33                        | 10.00                         | 10.00                        | 0.00                        |
| 8,400.00                       | 90.00              | 265.43         | 7,900.00                    | -966.07         | -262.64         | 263.48                        | 2.00                          | 0.00                         | 2.00                        |
| 8,500.00                       | 90.00              | 267.43         | 7,900.00                    | -972.29         | -362.44         | 363.29                        | 2.00                          | 0.00                         | 2.00                        |
| 8,600.00                       | 90.00              | 269.43         | 7,900.00                    | -975.03         | -462.40         | 463.25                        | 2.00                          | 0.00                         | 2.00                        |
| 8,625.79                       | 90.00              | 269.95         | 7,900.00                    | -975.17         | -488.19         | 489.04                        | 2.00                          | 0.00                         | 2.00                        |
| 8,700.00                       | 90.00              | 269.95         | 7,900.00                    | -975.24         | -562.40         | 563.25                        | 0.00                          | 0.00                         | 0.00                        |
| 8,800.00                       | 90.00              | 269.95         | 7,900.00                    | -975.34         | -662.40         | 663.25                        | 0.00                          | 0.00                         | 0.00                        |
| 8,900.00                       | 90.00              | 269.95         | 7,900.00                    | -975.43         | -762.40         | 763.25                        | 0.00                          | 0.00                         | 0.00                        |
| 9,000.00                       | 90.00              | 269.95         | 7,900.00                    | -975.52         | -862.40         | 863.25                        | 0.00                          | 0.00                         | 0.00                        |
| 9,100.00                       | 90.00              | 269.95         | 7,900.00                    | -975.62         | -962.40         | 963.25                        | 0.00                          | 0.00                         | 0.00                        |
| 9,200.00                       | 90.00              | 269.95         | 7,900.00                    | -975.71         | -1,062.40       | 1,063.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,300.00                       | 90.00              | 269.95         | 7,900.00                    | -975.80         | -1,162.40       | 1,163.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,400.00                       | 90.00              | 269.95         | 7,900.00                    | -975.90         | -1,262.40       | 1,263.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,500.00                       | 90.00              | 269.95         | 7,900.00                    | -975.99         | -1,362.40       | 1,363.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,600.00                       | 90.00              | 269.95         | 7,900.00                    | -976.08         | -1,462.40       | 1,463.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,700.00                       | 90.00              | 269.95         | 7,900.00                    | -976.18         | -1,562.40       | 1,563.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,800.00                       | 90.00              | 269.95         | 7,900.00                    | -976.27         | -1,662.40       | 1,663.25                      | 0.00                          | 0.00                         | 0.00                        |
| 9,900.00                       | 90.00              | 269.95         | 7,900.00                    | -976.36         | -1,762.40       | 1,763.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,000.00                      | 90.00              | 269.95         | 7,900.00                    | -976.46         | -1,862.40       | 1,863.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,100.00                      | 90.00              | 269.95         | 7,900.00                    | -976.55         | -1,962.40       | 1,963.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,200.00                      | 90.00              | 269.95         | 7,900.00                    | -976.64         | -2,062.39       | 2,063.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,300.00                      | 90.00              | 269.95         | 7,900.00                    | -976.74         | -2,162.39       | 2,163.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,400.00                      | 90.00              | 269.95         | 7,900.00                    | -976.83         | -2,262.39       | 2,263.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,500.00                      | 90.00              | 269.95         | 7,900.00                    | -976.92         | -2,362.39       | 2,363.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,600.00                      | 90.00              | 269.95         | 7,900.00                    | -977.02         | -2,462.39       | 2,463.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,700.00                      | 90.00              | 269.95         | 7,900.00                    | -977.11         | -2,562.39       | 2,563.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,800.00                      | 90.00              | 269.95         | 7,900.00                    | -977.20         | -2,662.39       | 2,663.25                      | 0.00                          | 0.00                         | 0.00                        |
| 10,900.00                      | 90.00              | 269.95         | 7,900.00                    | -977.30         | -2,762.39       | 2,763.25                      | 0.00                          | 0.00                         | 0.00                        |
| 11,000.00                      | 90.00              | 269.95         | 7,900.00                    | -977.39         | -2,862.39       | 2,863.25                      | 0.00                          | 0.00                         | 0.00                        |
| 11,100.00                      | 90.00              | 269.95         | 7,900.00                    | -977.48         | -2,962.39       | 2,963.25                      | 0.00                          | 0.00                         | 0.00                        |
| 11,200.00                      | 90.00              | 269.95         | 7,900.00                    | -977.58         | -3,062.39       | 3,063.25                      | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                      | 90.00              | 269.95         | 7,900.00                    | -977.67         | -3,162.39       | 3,163.25                      | 0.00                          | 0.00                         | 0.00                        |

# Pro Directional Planning Report

Database: WellPlanner1  
Company: Matador Resources  
Project: Eddy County, NM (NAD27)  
Site: Stebbins Federal 19  
Well: #127H  
Wellbore: OH  
Design: Prelim C

Local Co-ordinate Reference: Well #127H  
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,400.00             | 90.00           | 269.95      | 7,900.00              | -977.76      | -3,262.39    | 3,263.25                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00             | 90.00           | 269.95      | 7,900.00              | -977.86      | -3,362.39    | 3,363.25                | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00             | 90.00           | 269.95      | 7,900.00              | -977.95      | -3,462.39    | 3,463.25                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00             | 90.00           | 269.95      | 7,900.00              | -978.04      | -3,562.39    | 3,563.25                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00             | 90.00           | 269.95      | 7,900.00              | -978.14      | -3,662.39    | 3,663.25                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00             | 90.00           | 269.95      | 7,900.00              | -978.23      | -3,762.39    | 3,763.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00             | 90.00           | 269.95      | 7,900.00              | -978.32      | -3,862.39    | 3,863.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00             | 90.00           | 269.95      | 7,900.00              | -978.42      | -3,962.39    | 3,963.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00             | 90.00           | 269.95      | 7,900.00              | -978.51      | -4,062.39    | 4,063.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00             | 90.00           | 269.95      | 7,900.00              | -978.60      | -4,162.39    | 4,163.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00             | 90.00           | 269.95      | 7,900.00              | -978.70      | -4,262.39    | 4,263.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00             | 90.00           | 269.95      | 7,900.00              | -978.79      | -4,362.39    | 4,363.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00             | 90.00           | 269.95      | 7,900.00              | -978.88      | -4,462.39    | 4,463.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00             | 90.00           | 269.95      | 7,900.00              | -978.98      | -4,562.39    | 4,563.25                | 0.00                    | 0.00                   | 0.00                  |
| 12,726.61             | 90.00           | 269.95      | 7,900.00              | -979.00      | -4,589.00    | 4,589.85                | 0.00                    | 0.00                   | 0.00                  |

## Design Targets

### Target Name

| - hit/miss target                                                                    | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
|--------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| - Shape                                                                              |               |              |            |              |              |                 |                |           |             |
| FPP (Stebbins Fed 19)                                                                | 0.00          | 0.00         | 0.00       | -975.00      | 343.00       | 565,831.00      | 570,167.00     | 32.555371 | -104.105601 |
| - plan misses target center by 1033.57usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) |               |              |            |              |              |                 |                |           |             |
| - Point                                                                              |               |              |            |              |              |                 |                |           |             |
| LTP (Stebbins Fed 19)                                                                | 0.00          | 0.00         | 7,900.00   | -979.00      | -4,589.00    | 565,827.00      | 565,235.00     | 32.555388 | -104.121609 |
| - plan hits target center                                                            |               |              |            |              |              |                 |                |           |             |
| - Point                                                                              |               |              |            |              |              |                 |                |           |             |

## Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|---------|---------------------|-------------------|
| 400.00                | 400.00                | 20"     | 20                  | 26                |
| 1,200.00              | 1,200.00              | 13 3/8" | 13-3/8              | 17-1/2            |
| 3,121.09              | 3,100.00              | 9 5/8"  | 9-5/8               | 12-1/4            |

# Pro Directional

## Planning Report

Database: WellPlanner1  
Company: Matador Resources  
Project: Eddy County, NM (NAD27)  
Site: Stebbins Federal 19  
Well: #127H  
Wellbore: OH  
Design: Prelim C

Local Co-ordinate Reference: Well #127H  
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MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name                         | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|------------------------------|-----------|------------|-------------------------|
| 301.33                      | 301.33                      | Rustler                      |           |            |                         |
| 442.04                      | 442.04                      | Top Salt                     |           |            |                         |
| 1,387.39                    | 1,387.39                    | Capitan (T)                  |           |            |                         |
| 1,677.01                    | 1,676.89                    | Seven Rivers                 |           |            |                         |
| 3,221.17                    | 3,198.42                    | Cherry Cyn.                  |           |            |                         |
| 4,157.80                    | 4,119.54                    | Brushy Cyn.                  |           |            |                         |
| 5,818.18                    | 5,752.41                    | Bone Spring Lime             |           |            |                         |
| 6,124.32                    | 6,053.48                    | U. Avalon Shale              |           |            |                         |
| 6,288.36                    | 6,214.81                    | Avalon Carb                  |           |            |                         |
| 6,469.60                    | 6,393.04                    | L. Avalon Shale              |           |            |                         |
| 6,523.65                    | 6,446.20                    | First Bone Spring Carb       |           |            |                         |
| 7,102.04                    | 7,016.23                    | First Bone Spring Sand       |           |            |                         |
| 7,235.46                    | 7,149.15                    | Second Bone Spring Carbonate |           |            |                         |
| 7,678.91                    | 7,583.09                    | Second Bone Spring Sand      |           |            |                         |

### Casing

| Name           | Hole Size | Casing Size   | Wt/Grade   | Thread Collar | Setting Depth | Top Cement |
|----------------|-----------|---------------|------------|---------------|---------------|------------|
| Surface        | 26"       | 20" (new)     | 94# J-55   | BTC           | 400           | Surface    |
| Intermediate 1 | 17-1/2"   | 13-3/8" (new) | 54.5# J-55 | BTC           | 1200          | Surface    |
| Intermediate 2 | 12-1/4"   | 9-5/8" (new)  | 40# J-55   | BTC           | 3100          | Surface    |
| Production     | 8-3/4"    | 5-1/2" (new)  | 20# P-110  | DWC/C         | 12667         | 1180'      |

Spec sheet for 5-1/2" 20# P-110RY DWC/C is attached.

### Mud

| Name           | Hole Size | Mud Weight | Visc  | Fluid Loss | Type Mud     |
|----------------|-----------|------------|-------|------------|--------------|
| Surface        | 26"       | 8.40       | 28    | NC         | FW Spud Mud  |
| Intermediate 1 | 17-1/2"   | 10.00      | 30-32 | NC         | Brine Water  |
| Intermediate 2 | 12-1/4"   | 8.4-8.6    | 28-30 | NC         | FW           |
| Production     | 8-3/4"    | 9.00       | 30-32 | NC         | FW/Cut Brine |

### Cement

| Name           | Type | Sacks       | Yield | Weight                                                                           | Blend                                          |
|----------------|------|-------------|-------|----------------------------------------------------------------------------------|------------------------------------------------|
| Surface        | Tail | 873         | 1.38  | 14.8                                                                             | Class C + 5% NaCl + LCM                        |
| TOC = 0'       |      | 100% Excess |       | Centralizers per Onshore Order 2.III.B.1f                                        |                                                |
| Intermediate 1 | Lead | 637         | 1.73  | 13.5                                                                             | Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM |
|                | Tail | 309         | 1.35  | 14.8                                                                             | Class C + 5% NaCl + LCM                        |
| TOC = 0'       |      | 100% Excess |       | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface                              |                                                |
| Intermediate 2 | Lead | 715         | 1.73  | 13.5                                                                             | Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM |
|                | Tail | 288         | 1.35  | 14.8                                                                             | Class C + 5% NaCl + LCM                        |
| TOC = 0'       |      | 100% Excess |       | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface                              |                                                |
| Production     | Lead | 808         | 2.22  | 11.5                                                                             | TXI + Fluid Loss + Dispersant + Retarder + LCM |
|                | Tail | 1436        | 1.37  | 13.2                                                                             | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 1180'    |      | 35% Excess  |       | 2 on btm jt, 1 on 2nd jt, 1 every 5th jt to top of tail cement (1000' above TOC) |                                                |

Matador requests the option to cut off 20" SOW wellhead and run 13-3/8" SOW multi-bowl wellhead system once 1<sup>st</sup> intermediate string is run and cemented.

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.



Example:

Assuming DV tool is set at 1500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

|                          |     |      |      |                                                            |
|--------------------------|-----|------|------|------------------------------------------------------------|
| Lead                     | 695 | 1.78 | 13.5 | Class C + Bentonite + 2% CaCL <sub>2</sub> + 3% NaCl + LCM |
| Tail                     | 288 | 1.35 | 14.4 | Class C + 5% NaCl + LCM                                    |
| 100% excess, TOC = 0' MD |     |      |      |                                                            |

Stage 2:

|                          |     |      |      |                                                            |
|--------------------------|-----|------|------|------------------------------------------------------------|
| Lead                     | 350 | 1.78 | 13.5 | Class C + Bentonite + 2% CaCL <sub>2</sub> + 3% NaCl + LCM |
| 100% excess, TOC = 0' MD |     |      |      |                                                            |

**Connection Type:**  
DWC/C-HT-IS PLUS Casing  
STANDARD

**Size(O.D.):**  
5.500in

**Weight (Wall):**  
20.00 lb./ft. (0.361in)

**Grade:**  
P110RY

**Material**

P110RY Grade  
110,000 Minimum Yield Strength (psi.)  
125,000 Minimum Ultimate Strength (psi.)

**Pipe Dimensions**

5.500 Nominal Pipe Body O.D. (in.)  
4.778 Nominal Pipe Body I.D.(in.)  
0.361 Nominal Wall Thickness (in.)  
20.00 Nominal Weight (lbs./ft.)  
19.83 Plain End Weight (lbs./ft.)  
5.828 Nominal Pipe Body Area (sq. in.)

**Pipe Body Performance Properties**

641,000 Minimum Pipe Body Yield Strength (lbs.)  
11,100 Minimum Collapse Pressure (psi.)  
12,640 Minimum Internal Yield Pressure (psi.)  
11,600 Hydrostatic Test Pressure (psi.)

**Connection Dimensions**

6.300 Connection O.D. (in.)  
4.778 Connection I.D. (in.)  
4.653 Connection Drift Diameter (in.)  
4.13 Make-up Loss (in.)  
5.828 Critical Area (sq in.)  
100.00 Joint Efficiency (%)

**Connection Performance Properties**

641,000 Joint Strength (lbs.)  
22,890 Reference String Length (ft.) 1.4 Design Factor  
667,000 API Joint Strength (lbs.)  
641,000 Compression Rating (lbs.)  
11,100 API Collapse Pressure Rating (psi.)  
12,640 API Internal Pressure Resistance (psi.)  
91.7 Maximum Uniaxial Bend Rating [degrees/100 ft]

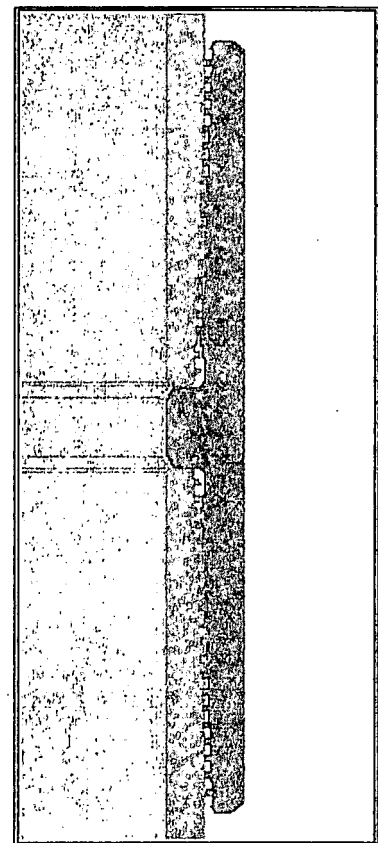
**Appoximated Field End Torque Values**

15,900 Minimum Final Torque (ft.-lbs.)  
18,200 Maximum Final Torque (ft.-lbs.)  
24,700 Connection Yield Torque (ft.-lbs.)



VAM USA

4424 W. Sam Houston Pkwy. Suite 150  
Houston, TX 77041  
Phone: 713-479-3200  
Fax: 713-479-3234  
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For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

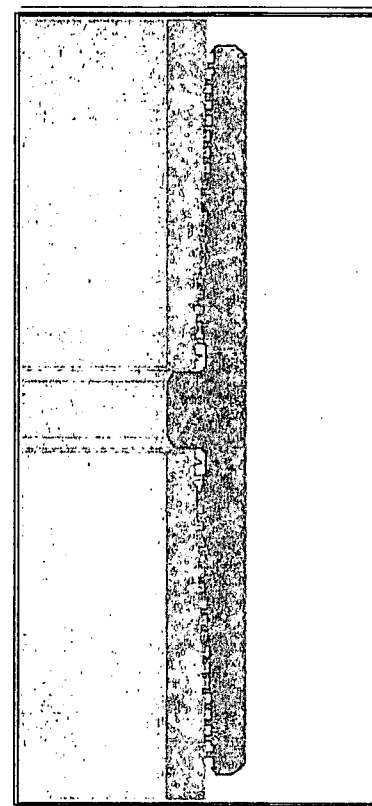
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**DWC Connection Data Notes:**

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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