

**HOBBS OCD**  
**OCT 16 2019**  
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## **EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Green Drake 16 Fed Com**

**#759H**

**OH**

**Design: OH**

## **Midland PVA**

**11 August, 2019**



Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 16 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 28 @ 3423.0usft  
 MD Reference: KB = 28 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

|             |                             |               |                |
|-------------|-----------------------------|---------------|----------------|
| Project     | Lea County, NM (NAD 83 NME) |               |                |
| Map System: | US State Plane 1983         | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983   |               |                |
| Map Zone:   | New Mexico Eastern Zone     |               |                |

|                       |                        |                   |                  |
|-----------------------|------------------------|-------------------|------------------|
| Site                  | Green Drake 16 Fed Com |                   |                  |
| Site Position:        |                        | Northing:         | 411,802.00 usft  |
| From:                 | Map                    | Easting:          | 773,380.00 usft  |
| Position Uncertainty: | 0.0 usft               | Slot Radius:      | 13-3/16 "        |
|                       |                        | Latitude:         | 32° 7' 47.652 N  |
|                       |                        | Longitude:        | 103° 35' 1.431 W |
|                       |                        | Grid Convergence: | 0.40 °           |

|                      |          |                     |                   |
|----------------------|----------|---------------------|-------------------|
| Well                 | #759H    |                     |                   |
| Well Position        | +N-S     | 0.0 usft            | Northing:         |
|                      | +E-W     | 0.0 usft            | Easting:          |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft              |
|                      |          | Latitude:           | 32° 7' 47.603 N   |
|                      |          | Longitude:          | 103° 34' 34.940 W |
|                      |          | Ground Level:       | 3,398.0 usft      |

|           |            |             |                     |
|-----------|------------|-------------|---------------------|
| Wellbore  | OH         |             |                     |
| Magnetics | Model Name | Sample Date | Declination (°)     |
|           | IGRF2015   | 7/23/2016   | 6.83                |
|           |            |             | Dip Angle (°)       |
|           |            |             | 59.96               |
|           |            |             | Field Strength (nT) |
|           |            |             | 47,769.02374662     |

|                   |                  |               |               |
|-------------------|------------------|---------------|---------------|
| Design            | OH               |               |               |
| Audit Notes:      |                  |               |               |
| Version:          | 1.0              | Phase:        | ACTUAL        |
|                   |                  | Tie On Depth: | 0.0           |
| Vertical Section: | Depth From (TVD) | +N-S          | +E-W          |
|                   | (usft)           | (usft)        | (usft)        |
|                   | 0.0              | 0.0           | 0.0           |
|                   |                  |               | Direction (°) |
|                   |                  |               | 188.85        |

|                |                |                    |                     |
|----------------|----------------|--------------------|---------------------|
| Survey Program | Date 8/11/2019 |                    |                     |
| From (usft)    | To (usft)      | Survey (Wellbore)  | Tool Name           |
| 229.0          | 20,720.0       | Drilltech MWD (OH) | MWD                 |
|                |                |                    | Description         |
|                |                |                    | OWSG MWD - Standard |



# Midland PVA

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 Site: Green Drake 16 Fed Com  
 Well: #758H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #758H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| MD<br>(usft) | Inc<br>(°) | Asl (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLag<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 0.0          | 0.00       | 0.00                 | 0.0           | 0.0           | 0.0           | 0.00                | 0.00                 | 0.00                | 0.0                    | 0.0                     |
| 229.0        | 0.80       | 277.50               | 229.0         | 0.2           | -1.8          | 0.35                | 0.35                 | 0.00                | -1.6                   | 0.0                     |
| 318.0        | 0.80       | 280.10               | 316.0         | 0.2           | -2.6          | 0.33                | -0.23                | -20.00              | -2.6                   | -0.7                    |
| 377.0        | 0.80       | 258.50               | 377.0         | 0.1           | -3.3          | 0.03                | 0.00                 | -2.62               | -3.2                   | -0.7                    |
| 490.0        | 0.80       | 229.40               | 490.0         | -0.4          | -4.3          | 0.27                | 0.00                 | -25.75              | -3.5                   | -2.5                    |
| 605.0        | 0.40       | 220.90               | 605.0         | -1.1          | -5.0          | 0.19                | -0.17                | -7.39               | -4.1                   | -3.1                    |
| 668.0        | 0.40       | 261.00               | 668.0         | -1.3          | -5.4          | 0.44                | 0.00                 | 63.65               | -5.5                   | 0.5                     |
| 761.0        | 0.40       | 263.00               | 761.0         | -1.4          | -6.0          | 0.02                | 0.00                 | 2.15                | -6.1                   | 0.7                     |
| 854.0        | 0.40       | 263.00               | 854.0         | -1.5          | -6.7          | 0.00                | 0.00                 | 0.00                | -6.8                   | 0.7                     |
| 948.0        | 0.60       | 245.60               | 948.0         | -1.7          | -7.4          | 0.26                | 0.21                 | -18.51              | -7.5                   | -1.5                    |
| 1,042.0      | 0.80       | 225.30               | 1,042.0       | -2.4          | -8.4          | 0.42                | 0.32                 | -21.60              | -7.7                   | -4.2                    |
| 1,217.0      | 0.80       | 192.90               | 1,216.9       | -4.6          | -8.7          | 0.28                | -0.06                | -18.51              | -8.6                   | -8.4                    |
| 1,311.0      | 1.90       | 281.80               | 1,310.9       | -4.9          | -11.3         | 2.18                | 1.17                 | 94.57               | -9.4                   | 7.1                     |
| 1,404.0      | 4.70       | 293.00               | 1,403.8       | -3.1          | -16.3         | 3.08                | 3.01                 | 12.04               | -9.8                   | 8.4                     |
| 1,498.0      | 7.90       | 290.80               | 1,497.2       | 0.7           | -25.9         | 3.41                | 3.40                 | -2.34               | -13.9                  | 6.8                     |
| 1,591.0      | 10.30      | 289.40               | 1,589.0       | 5.7           | -39.8         | 2.59                | 2.58                 | -1.51               | -19.3                  | 5.0                     |
| 1,685.0      | 12.80      | 287.40               | 1,681.1       | 11.6          | -57.6         | 2.69                | 2.68                 | -2.13               | -25.7                  | 2.7                     |
| 1,778.0      | 13.60      | 287.10               | 1,771.8       | 17.9          | -77.9         | 0.88                | 0.88                 | -0.32               | -31.5                  | 1.0                     |
| 1,871.0      | 13.80      | 287.70               | 1,862.0       | 24.5          | -98.9         | 0.26                | 0.22                 | 0.65                | -35.5                  | -0.5                    |
| 1,965.0      | 13.50      | 287.40               | 1,953.3       | 31.2          | -120.1        | 0.33                | -0.32                | -0.32               | -39.2                  | -2.7                    |
| 2,058.0      | 13.60      | 287.00               | 2,043.7       | 37.6          | -140.9        | 0.15                | 0.11                 | -0.43               | -42.6                  | -4.8                    |
| 2,152.0      | 13.40      | 288.50               | 2,135.1       | 44.3          | -161.8        | 0.43                | -0.21                | 1.60                | -46.1                  | -5.7                    |
| 2,245.0      | 13.40      | 289.10               | 2,225.6       | 51.3          | -182.2        | 0.15                | 0.00                 | 0.65                | -49.4                  | -7.6                    |
| 2,339.0      | 13.10      | 290.70               | 2,317.1       | 58.6          | -202.4        | 0.50                | -0.32                | 1.70                | -52.7                  | -8.9                    |
| 2,433.0      | 12.80      | 293.70               | 2,408.7       | 66.5          | -221.9        | 0.78                | -0.32                | 3.19                | -55.9                  | -9.8                    |
| 2,526.0      | 12.80      | 296.20               | 2,499.4       | 75.2          | -240.6        | 0.60                | 0.00                 | 2.69                | -58.9                  | -11.5                   |
| 2,619.0      | 12.00      | 289.40               | 2,590.2       | 83.0          | -259.0        | 1.79                | -0.86                | -7.31               | -58.8                  | -22.0                   |



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 Database: EDM 5000.14

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 2,713.0      | 12.00      | 279.70               | 2,682.2       | 87.8          | -277.8        | 2.14                | 0.00                 | -10.32              | -55.0                  | -32.5                   |
| 2,806.0      | 12.00      | 279.90               | 2,773.2       | 91.2          | -296.9        | 0.04                | 0.00                 | 0.22                | -55.9                  | -31.7                   |
| 2,899.0      | 11.30      | 281.90               | 2,864.2       | 94.7          | -315.3        | 0.87                | -0.75                | 2.15                | -57.2                  | -29.6                   |
| 2,993.0      | 11.10      | 284.70               | 2,956.5       | 98.9          | -333.1        | 0.82                | -0.21                | 2.98                | -58.1                  | -27.4                   |
| 3,086.0      | 10.20      | 288.60               | 3,047.9       | 103.8         | -349.6        | 1.24                | -0.97                | 4.19                | -58.6                  | -25.2                   |
| 3,180.0      | 9.70       | 293.30               | 3,140.4       | 109.6         | -364.7        | 1.01                | -0.53                | 5.00                | -58.2                  | -23.5                   |
| 3,274.0      | 10.00      | 284.10               | 3,233.1       | 114.7         | -379.9        | 1.70                | 0.32                 | -9.79               | -51.0                  | -34.5                   |
| 3,367.0      | 11.10      | 278.50               | 3,324.5       | 117.7         | -396.6        | 1.80                | 1.18                 | -8.17               | -44.6                  | -40.3                   |
| 3,461.0      | 11.90      | 273.70               | 3,416.6       | 119.4         | -415.3        | 1.04                | 0.85                 | -2.98               | -42.8                  | -40.2                   |
| 3,554.0      | 11.20      | 278.80               | 3,507.7       | 121.0         | -433.8        | 1.01                | -0.75                | 3.33                | -45.0                  | -35.9                   |
| 3,648.0      | 10.50      | 278.30               | 3,600.0       | 123.4         | -451.4        | 0.80                | -0.74                | 1.60                | -44.8                  | -33.5                   |
| 3,741.0      | 10.40      | 276.90               | 3,691.5       | 125.6         | -468.1        | 0.29                | -0.11                | -1.51               | -42.4                  | -33.2                   |
| 3,834.0      | 9.30       | 276.80               | 3,783.1       | 127.5         | -483.9        | 1.18                | -1.18                | -0.11               | -39.7                  | -31.8                   |
| 3,926.0      | 9.10       | 275.40               | 3,873.9       | 129.1         | -498.5        | 0.33                | -0.22                | -1.52               | -35.3                  | -31.0                   |
| 4,020.0      | 11.10      | 274.10               | 3,966.5       | 130.4         | -514.9        | 2.14                | 2.13                 | -1.38               | -32.5                  | -29.5                   |
| 4,114.0      | 10.70      | 275.40               | 4,058.8       | 131.9         | -532.7        | 0.50                | -0.43                | 1.38                | -32.3                  | -26.6                   |
| 4,207.0      | 9.90       | 271.20               | 4,150.3       | 132.9         | -549.2        | 1.18                | -0.86                | -4.52               | -28.6                  | -26.2                   |
| 4,300.0      | 8.80       | 271.90               | 4,241.9       | 133.3         | -565.1        | 0.17                | -0.11                | 0.75                | -26.5                  | -22.8                   |
| 4,394.0      | 10.10      | 280.00               | 4,334.5       | 135.0         | -581.3        | 1.52                | 0.32                 | 8.62                | -26.8                  | -17.1                   |
| 4,488.0      | 11.30      | 282.80               | 4,424.9       | 138.4         | -598.0        | 1.42                | 1.30                 | 3.04                | -26.3                  | -15.9                   |
| 4,580.0      | 11.50      | 284.80               | 4,517.1       | 142.8         | -616.0        | 0.47                | 0.21                 | 2.13                | -26.7                  | -15.7                   |
| 4,674.0      | 8.60       | 281.50               | 4,609.6       | 146.6         | -632.0        | 3.14                | -3.09                | -3.51               | -23.3                  | -17.7                   |
| 4,767.0      | 8.80       | 283.50               | 4,701.5       | 149.7         | -645.7        | 0.39                | 0.22                 | 2.15                | -19.4                  | -17.3                   |
| 4,861.0      | 10.70      | 287.60               | 4,794.2       | 154.0         | -661.0        | 2.15                | 2.02                 | 4.36                | -17.8                  | -17.4                   |
| 4,956.0      | 12.80      | 288.40               | 4,887.2       | 160.0         | -679.4        | 2.22                | 2.21                 | 0.84                | -18.6                  | -19.3                   |
| 5,049.0      | 12.10      | 287.90               | 4,978.0       | 166.2         | -698.5        | 0.78                | -0.75                | -0.54               | -20.1                  | -21.6                   |
| 5,142.0      | 11.40      | 287.20               | 5,069.0       | 171.9         | -716.5        | 0.77                | -0.75                | -0.75               | -20.3                  | -23.8                   |



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 Site: Green Drake 16 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 25 @ 3423.0usft  
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| Survey       |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 5,236.0      | 11.90      | 285.50               | 5,161.1       | 177.3         | -734.7       | 0.65                | 0.53                 | -1.81               | -19.9                  | -28.0                   |  |
| 5,330.0      | 12.00      | 283.20               | 5,253.1       | 182.1         | -753.6       | 0.52                | 0.11                 | -2.45               | -19.6                  | -27.7                   |  |
| 5,424.0      | 12.30      | 282.20               | 5,345.0       | 186.4         | -772.9       | 0.39                | 0.32                 | -1.06               | -20.2                  | -26.4                   |  |
| 5,517.0      | 12.80      | 281.20               | 5,435.7       | 190.5         | -792.7       | 0.59                | 0.54                 | -1.08               | -21.4                  | -28.9                   |  |
| 5,611.0      | 12.50      | 278.80               | 5,527.5       | 194.1         | -812.9       | 0.64                | -0.32                | -2.55               | -22.1                  | -29.3                   |  |
| 5,705.0      | 12.10      | 279.00               | 5,619.3       | 197.2         | -832.7       | 0.43                | -0.43                | 0.21                | -23.6                  | -28.3                   |  |
| 5,798.0      | 12.00      | 281.00               | 5,710.3       | 200.6         | -851.8       | 0.46                | -0.11                | 2.15                | -25.4                  | -27.0                   |  |
| 5,891.0      | 11.30      | 280.00               | 5,801.3       | 204.0         | -870.3       | 0.78                | -0.75                | -1.08               | -25.2                  | -27.1                   |  |
| 5,984.0      | 10.30      | 278.90               | 5,892.7       | 206.9         | -887.5       | 1.10                | -1.08                | -1.18               | -23.6                  | -26.9                   |  |
| 6,078.0      | 8.40       | 278.60               | 5,985.4       | 209.2         | -902.6       | 2.02                | -2.02                | -0.32               | -19.9                  | -26.2                   |  |
| 6,172.0      | 5.50       | 287.80               | 6,078.7       | 211.6         | -913.7       | 3.28                | -3.09                | 9.79                | -16.4                  | -23.7                   |  |
| 6,265.0      | 4.50       | 278.00               | 6,171.4       | 213.5         | -921.5       | 1.41                | -1.08                | -10.54              | -3.6                   | -25.8                   |  |
| 6,358.0      | 2.60       | 278.90               | 6,264.2       | 214.3         | -927.2       | 2.04                | -2.04                | 0.97                | 3.9                    | -25.1                   |  |
| 6,452.0      | 1.30       | 334.20               | 6,358.2       | 215.6         | -929.8       | 2.28                | -1.38                | 58.83               | -14.2                  | -24.3                   |  |
| 6,546.0      | 1.20       | 325.30               | 6,452.1       | 217.4         | -930.8       | 0.23                | -0.11                | -9.47               | -6.7                   | -31.7                   |  |
| 6,639.0      | 1.40       | 321.40               | 6,545.1       | 219.0         | -932.1       | 0.24                | 0.22                 | -4.19               | -3.2                   | -35.1                   |  |
| 6,732.0      | 1.40       | 326.40               | 6,638.1       | 220.9         | -933.4       | 0.13                | 0.00                 | 5.38                | -7.4                   | -35.6                   |  |
| 6,826.0      | 1.50       | 329.80               | 6,732.0       | 222.9         | -934.7       | 0.14                | 0.11                 | 3.62                | -11.9                  | -35.1                   |  |
| 6,919.0      | 1.30       | 322.00               | 6,825.0       | 224.6         | -935.9       | 0.30                | -0.22                | -6.39               | -9.3                   | -36.5                   |  |
| 7,012.0      | 1.10       | 318.50               | 6,918.0       | 226.3         | -937.2       | 0.23                | -0.22                | -3.78               | -9.0                   | -37.1                   |  |
| 7,106.0      | 1.00       | 314.20               | 7,012.0       | 227.5         | -938.4       | 0.14                | -0.11                | -4.57               | -7.9                   | -37.7                   |  |
| 7,199.0      | 0.60       | 305.70               | 7,105.0       | 228.4         | -939.3       | 0.45                | -0.43                | -9.14               | -3.5                   | -38.6                   |  |
| 7,293.0      | 0.60       | 282.40               | 7,199.0       | 228.6         | -940.2       | 0.26                | 0.00                 | -24.79              | 11.1                   | -37.0                   |  |
| 7,387.0      | 0.60       | 250.10               | 7,293.0       | 228.7         | -941.2       | 0.36                | 0.00                 | -34.36              | 28.2                   | -25.6                   |  |
| 7,481.0      | 0.60       | 244.50               | 7,387.0       | 228.3         | -942.1       | 0.06                | 0.00                 | -5.96               | 29.6                   | -22.8                   |  |
| 7,574.0      | 0.50       | 246.40               | 7,480.0       | 228.0         | -942.9       | 0.11                | -0.11                | 2.04                | 28.0                   | -23.8                   |  |
| 7,668.0      | 0.90       | 226.00               | 7,573.9       | 227.3         | -943.8       | 0.49                | 0.43                 | -21.70              | 33.4                   | -12.7                   |  |



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Survey

| MD<br>(usft) | Inc<br>(") | Azi (azimuth)<br>(") | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>("/100usft) | Build<br>("/100usft) | Turn<br>("/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 7,762.0      | 1.10       | 197.50               | 7,667.9       | 225.9         | -944.6       | 0.58                | 0.21                 | -30.32              | 33.8                   | 4.4                     |
| 7,856.0      | 1.00       | 202.40               | 7,761.9       | 224.3         | -945.2       | 0.14                | -0.11                | 5.21                | 32.3                   | 1.8                     |
| 7,948.0      | 0.80       | 215.50               | 7,853.9       | 223.0         | -945.9       | 0.31                | -0.22                | 14.24               | 30.4                   | -5.8                    |
| 8,042.0      | 0.80       | 207.70               | 7,947.9       | 221.9         | -946.5       | 0.12                | 0.00                 | -8.30               | 29.6                   | -1.5                    |
| 8,135.0      | 1.10       | 200.60               | 8,040.9       | 220.5         | -947.2       | 0.35                | 0.32                 | -7.63               | 28.0                   | 2.1                     |
| 8,229.0      | 1.40       | 179.70               | 8,134.9       | 218.5         | -947.5       | 0.58                | 0.32                 | -22.23              | 23.4                   | 11.7                    |
| 8,323.0      | 1.40       | 179.50               | 8,228.8       | 216.2         | -947.5       | 0.01                | 0.00                 | -0.21               | 21.1                   | 11.7                    |
| 8,421.0      | 1.50       | 180.80               | 8,326.8       | 213.7         | -947.5       | 0.11                | 0.10                 | 1.33                | 18.9                   | 11.3                    |
| 8,515.0      | 1.40       | 188.50               | 8,420.8       | 211.4         | -947.6       | 0.23                | -0.11                | 8.19                | 17.9                   | 8.8                     |
| 8,608.0      | 1.60       | 182.50               | 8,513.7       | 208.9         | -947.9       | 0.27                | 0.22                 | -6.45               | 14.4                   | 10.5                    |
| 8,701.0      | 1.80       | 180.40               | 8,606.7       | 206.2         | -947.9       | 0.23                | 0.22                 | -2.26               | 11.3                   | 11.0                    |
| 8,795.0      | 1.80       | 182.00               | 8,700.7       | 203.2         | -948.0       | 0.05                | 0.00                 | 1.70                | 8.6                    | 10.7                    |
| 8,888.0      | 1.60       | 185.10               | 8,793.6       | 200.3         | -948.2       | 0.10                | 0.00                 | 3.33                | 6.3                    | 10.3                    |
| 8,983.0      | 1.60       | 188.20               | 8,888.6       | 197.5         | -948.5       | 0.23                | -0.21                | 3.26                | 4.0                    | 10.0                    |
| 9,077.0      | 1.80       | 192.50               | 8,982.5       | 194.8         | -949.0       | 0.25                | 0.21                 | 4.57                | 1.9                    | 9.8                     |
| 9,170.0      | 1.80       | 192.60               | 9,075.5       | 191.9         | -949.6       | 0.00                | 0.00                 | 0.11                | -1.0                   | 9.8                     |
| 9,263.0      | 1.30       | 186.80               | 9,168.4       | 189.5         | -950.1       | 0.56                | -0.54                | -6.24               | -4.4                   | 9.5                     |
| 9,357.0      | 1.50       | 179.60               | 9,262.4       | 187.2         | -950.2       | 0.28                | 0.21                 | -7.66               | -7.9                   | 8.7                     |
| 9,451.0      | 1.40       | 180.50               | 9,356.4       | 184.8         | -950.2       | 0.11                | -0.11                | 0.86                | -10.1                  | 8.9                     |
| 9,545.0      | 1.80       | 173.00               | 9,450.4       | 182.2         | -950.0       | 0.48                | 0.43                 | -7.98               | -13.8                  | 7.3                     |
| 9,637.0      | 1.90       | 142.50               | 9,542.3       | 179.5         | -948.9       | 1.06                | 0.11                 | -33.15              | -18.4                  | -1.4                    |
| 9,730.0      | 1.60       | 155.90               | 9,635.3       | 177.1         | -947.5       | 0.54                | -0.32                | 14.41               | -21.0                  | 3.2                     |
| 9,825.0      | 0.70       | 89.40                | 9,730.2       | 175.9         | -946.3       | 1.55                | -0.85                | -70.00              | -12.5                  | -19.2                   |
| 9,918.0      | 0.90       | 58.90                | 9,823.2       | 176.3         | -945.2       | 0.50                | 0.22                 | -32.80              | -2.2                   | -23.2                   |
| 10,012.0     | 1.80       | 56.80                | 9,917.2       | 177.5         | -943.3       | 0.86                | 0.86                 | -2.23               | -3.6                   | -23.3                   |
| 10,106.0     | 1.50       | 52.60                | 10,011.2      | 179.0         | -941.1       | 0.34                | -0.32                | -4.47               | -4.6                   | -23.6                   |
| 10,200.0     | 1.00       | 73.50                | 10,105.1      | 180.0         | -939.3       | 0.71                | -0.53                | 22.23               | -14.6                  | -20.0                   |



# Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 16 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 10,294.0     | 0.80       | 51.80                | 10,199.1      | 180.7         | -938.0       | 0.42                | -0.21                | -23.09              | -7.6                   | -24.2                   |
| 10,388.0     | 0.40       | 42.20                | 10,293.1      | 181.3         | -937.3       | 0.44                | -0.43                | -10.21              | -4.5                   | -25.3                   |
| 10,481.0     | 0.40       | 33.70                | 10,386.1      | 181.8         | -936.9       | 0.06                | 0.00                 | -9.14               | -1.3                   | -25.7                   |
| 10,575.0     | 1.10       | 334.70               | 10,480.1      | 182.9         | -937.1       | 1.02                | 0.74                 | -62.77              | 20.3                   | -14.7                   |
| 10,668.0     | 1.40       | 314.20               | 10,573.1      | 184.5         | -938.3       | 0.57                | 0.32                 | -22.04              | 22.2                   | -6.9                    |
| 10,762.0     | 2.20       | 305.10               | 10,667.1      | 186.4         | -940.6       | 0.90                | 0.85                 | -9.68               | 20.1                   | -3.5                    |
| 10,856.0     | 2.40       | 296.10               | 10,761.0      | 188.3         | -943.8       | 0.44                | 0.21                 | -9.57               | 18.6                   | -0.6                    |
| 10,950.0     | 2.50       | 292.20               | 10,854.9      | 189.9         | -947.5       | 0.21                | 0.11                 | -4.15               | 12.6                   | 0.4                     |
| 11,044.0     | 3.30       | 305.80               | 10,948.8      | 192.3         | -951.6       | 1.12                | 0.85                 | 14.47               | 7.6                    | -2.1                    |
| 11,138.0     | 3.10       | 294.80               | 11,042.6      | 194.9         | -956.1       | 0.69                | -0.21                | -11.70              | 2.7                    | -1.1                    |
| 11,232.0     | 2.50       | 284.10               | 11,136.5      | 196.5         | -960.4       | 0.84                | -0.64                | -11.38              | -1.7                   | -1.1                    |
| 11,325.0     | 2.30       | 289.30               | 11,229.4      | 197.6         | -964.1       | 0.32                | -0.22                | 5.59                | -5.7                   | -0.7                    |
| 11,419.0     | 2.40       | 281.30               | 11,323.4      | 198.6         | -967.8       | 0.36                | 0.11                 | -8.51               | -9.3                   | -1.8                    |
| 11,512.0     | 1.50       | 258.00               | 11,418.3      | 198.7         | -970.9       | 1.32                | -0.97                | -27.20              | -10.7                  | -8.4                    |
| 11,606.0     | 1.80       | 202.90               | 11,510.3      | 197.0         | -972.7       | 1.59                | 0.32                 | -56.49              | -3.5                   | -13.4                   |
| 11,700.0     | 2.00       | 285.30               | 11,604.2      | 195.5         | -974.9       | 2.10                | 0.21                 | 66.38               | -15.8                  | -1.8                    |
| 11,793.0     | 1.60       | 235.80               | 11,697.2      | 194.7         | -977.6       | 1.07                | -0.43                | -31.72              | -15.5                  | -10.2                   |
| 11,887.0     | 1.30       | 212.80               | 11,791.2      | 193.0         | -979.2       | 0.69                | -0.32                | -24.47              | -12.6                  | -15.9                   |
| 11,981.0     | 1.90       | 207.30               | 11,885.1      | 190.7         | -980.5       | 0.66                | 0.64                 | -5.85               | -13.6                  | -17.2                   |
| 12,075.0     | 1.60       | 194.50               | 11,979.1      | 188.1         | -981.6       | 0.52                | -0.32                | -13.62              | -12.3                  | -20.1                   |
| 12,168.0     | 1.10       | 189.10               | 12,072.0      | 186.0         | -982.0       | 0.55                | -0.54                | -5.81               | -12.6                  | -21.3                   |
| 12,268.0     | 1.10       | 199.00               | 12,172.0      | 184.1         | -982.5       | 0.19                | 0.00                 | 9.90                | -18.0                  | -18.7                   |
| 12,361.0     | 1.10       | 172.80               | 12,265.0      | 182.4         | -982.7       | 0.54                | 0.00                 | -28.17              | -9.8                   | -25.1                   |
| 12,455.0     | 1.20       | 164.20               | 12,359.0      | 180.5         | -982.3       | 0.21                | 0.11                 | -9.15               | -7.6                   | -26.4                   |
| 12,549.0     | 1.30       | 168.30               | 12,453.0      | 178.5         | -981.8       | 0.14                | 0.11                 | 4.36                | -11.5                  | -25.7                   |
| 12,608.0     | 1.10       | 156.10               | 12,512.0      | 177.4         | -981.4       | 0.55                | -0.34                | -20.68              | -7.0                   | -27.7                   |
| 12,679.0     | 0.80       | 158.40               | 12,582.9      | 176.3         | -981.0       | 0.43                | -0.42                | 3.24                | -9.3                   | -27.3                   |



# Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 16 Fed Com  
 Well: #758H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #758H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| Survey       |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Asd (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Bulld<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 12,773.0     | 2.30       | 113.90               | 12,676.9      | 174.9         | -979.0       | 1.93                | 1.60                 | -47.34              | 10.5                   | -25.7                   |  |
| 12,867.0     | 25.50      | 163.10               | 12,767.6      | 154.5         | -971.3       | 25.59               | 24.68                | 52.34               | -20.2                  | -16.9                   |  |
| 12,914.0     | 39.80      | 165.40               | 12,807.1      | 130.1         | -964.5       | 30.75               | 30.64                | 4.89                | -33.1                  | -14.5                   |  |
| 12,981.0     | 44.50      | 168.70               | 12,841.9      | 99.3          | -957.5       | 10.86               | 9.79                 | 7.02                | -49.1                  | -7.9                    |  |
| 13,008.0     | 46.00      | 175.90               | 12,875.0      | 68.3          | -953.1       | 11.33               | 3.19                 | 15.32               | -62.1                  | 1.6                     |  |
| 13,055.0     | 48.20      | 180.30               | 12,907.0      | 31.9          | -951.9       | 8.30                | 4.68                 | 9.36                | -70.8                  | 6.7                     |  |
| 13,102.0     | 51.30      | 180.40               | 12,937.4      | -4.0          | -952.2       | 6.60                | 6.60                 | 0.21                | -76.5                  | 6.3                     |  |
| 13,148.0     | 53.30      | 180.30               | 12,965.5      | -40.4         | -952.4       | 4.35                | 4.35                 | -0.22               | -79.0                  | 5.7                     |  |
| 13,195.0     | 54.00      | 180.30               | 12,993.4      | -78.2         | -952.6       | 1.49                | 1.49                 | 0.00                | -77.1                  | 5.1                     |  |
| 13,242.0     | 59.20      | 178.10               | 13,019.2      | -117.4        | -952.0       | 11.73               | 11.06                | -4.68               | -72.2                  | 4.2                     |  |
| 13,289.0     | 63.60      | 179.30               | 13,041.7      | -158.7        | -951.1       | 9.63                | 9.36                 | 2.55                | -65.7                  | 5.6                     |  |
| 13,335.0     | 63.70      | 179.00               | 13,062.1      | -199.9        | -950.5       | 0.62                | 0.22                 | -0.65               | -56.2                  | 6.1                     |  |
| 13,382.0     | 68.80      | 178.20               | 13,081.1      | -242.9        | -949.4       | 10.96               | 10.85                | -1.70               | -43.6                  | 6.9                     |  |
| 13,430.0     | 68.90      | 178.00               | 13,098.4      | -287.6        | -947.9       | 0.44                | 0.21                 | -0.42               | -28.2                  | 8.4                     |  |
| 13,477.0     | 75.10      | 179.50               | 13,112.9      | -332.3        | -947.0       | 13.54               | 13.19                | 3.19                | -14.6                  | 8.8                     |  |
| 13,523.0     | 79.10      | 179.60               | 13,123.2      | -377.1        | -946.6       | 8.70                | 8.70                 | 0.22                | -5.3                   | 8.7                     |  |
| 13,616.0     | 88.80      | 178.10               | 13,134.6      | -469.3        | -944.7       | 8.43                | 8.28                 | -1.61               | 4.1                    | 10.0                    |  |
| 13,709.0     | 88.30      | 178.10               | 13,140.2      | -562.1        | -941.7       | 0.54                | -0.54                | 0.00                | 7.8                    | 12.5                    |  |
| 13,803.0     | 87.60      | 179.80               | 13,145.2      | -656.0        | -940.0       | 2.27                | 1.38                 | 1.81                | 10.9                   | 13.6                    |  |
| 13,897.0     | 86.90      | 179.20               | 13,149.7      | -749.8        | -939.1       | 0.88                | -0.74                | -0.64               | 13.5                   | 13.8                    |  |
| 13,990.0     | 89.10      | 179.40               | 13,152.9      | -842.8        | -938.0       | 2.38                | 2.37                 | 0.22                | 14.8                   | 14.3                    |  |
| 14,084.0     | 91.60      | 180.30               | 13,152.3      | -936.8        | -937.7       | 2.83                | 2.66                 | 0.96                | 12.3                   | 14.0                    |  |
| 14,177.0     | 93.30      | 180.70               | 13,148.4      | -1,029.7      | -938.6       | 1.88                | 1.63                 | 0.43                | 6.8                    | 12.6                    |  |
| 14,271.0     | 93.80      | 180.60               | 13,142.5      | -1,123.5      | -939.6       | 0.54                | 0.53                 | -0.11               | 1.0                    | 10.9                    |  |
| 14,364.0     | 93.20      | 181.80               | 13,136.9      | -1,218.3      | -941.6       | 1.44                | -0.65                | 1.29                | -4.8                   | 8.3                     |  |
| 14,458.0     | 91.00      | 181.80               | 13,133.4      | -1,310.2      | -944.5       | 2.34                | -2.34                | 0.00                | -8.0                   | 4.8                     |  |
| 14,551.0     | 88.60      | 181.10               | 13,133.7      | -1,403.1      | -946.9       | 2.69                | -2.58                | -0.75               | -7.6                   | 1.8                     |  |



Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 16 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azl (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 14,645.0     | 88.50      | 181.10               | 13,136.1      | -1,497.1      | -948.7        | 0.11                | -0.11                | 0.00                | -5.1                   | -0.8                    |  |
| 14,739.0     | 88.70      | 181.70               | 13,138.4      | -1,591.0      | -951.0        | 0.67                | 0.21                 | 0.64                | -2.7                   | -3.5                    |  |
| 14,833.0     | 89.20      | 182.40               | 13,140.1      | -1,685.0      | -954.3        | 0.92                | 0.53                 | 0.74                | -0.9                   | -7.4                    |  |
| 14,927.0     | 88.10      | 181.80               | 13,142.4      | -1,778.9      | -957.6        | 1.45                | -1.17                | -0.65               | 1.3                    | -11.3                   |  |
| 15,020.0     | 87.60      | 181.80               | 13,145.9      | -1,871.8      | -960.4        | 0.58                | -0.54                | 0.22                | 5.8                    | -14.7                   |  |
| 15,114.0     | 87.10      | 181.30               | 13,150.2      | -1,965.6      | -962.9        | 0.75                | -0.53                | -0.53               | 11.6                   | -17.8                   |  |
| 15,208.0     | 88.00      | 179.20               | 13,154.2      | -2,059.5      | -963.3        | 2.43                | 0.96                 | -2.23               | 17.0                   | -18.9                   |  |
| 15,302.0     | 89.60      | 178.90               | 13,156.2      | -2,153.5      | -961.8        | 1.73                | 1.70                 | -0.32               | 20.4                   | -17.9                   |  |
| 15,395.0     | 88.50      | 178.60               | 13,157.7      | -2,246.5      | -959.7        | 1.23                | -1.18                | -0.32               | 23.3                   | -16.5                   |  |
| 15,489.0     | 90.10      | 178.60               | 13,158.9      | -2,340.4      | -957.4        | 1.70                | 1.70                 | 0.00                | 25.9                   | -14.8                   |  |
| 15,583.0     | 90.30      | 178.00               | 13,158.5      | -2,434.4      | -954.6        | 0.67                | 0.21                 | -0.64               | 26.9                   | -12.6                   |  |
| 15,676.0     | 89.60      | 177.80               | 13,158.6      | -2,527.3      | -951.2        | 0.78                | -0.75                | -0.22               | 28.7                   | -9.8                    |  |
| 15,769.0     | 90.70      | 177.90               | 13,158.4      | -2,620.3      | -947.8        | 1.19                | 1.18                 | 0.11                | 30.5                   | -8.9                    |  |
| 15,863.0     | 90.70      | 178.30               | 13,157.2      | -2,714.2      | -944.6        | 0.43                | 0.00                 | 0.43                | 31.4                   | -4.4                    |  |
| 15,955.0     | 89.60      | 178.60               | 13,157.0      | -2,806.2      | -942.1        | 1.24                | -1.20                | 0.33                | 33.2                   | -2.5                    |  |
| 16,049.0     | 91.50      | 178.50               | 13,156.1      | -2,900.1      | -939.8        | 2.02                | 2.02                 | -0.11               | 34.3                   | -0.7                    |  |
| 16,141.0     | 92.80      | 178.40               | 13,152.6      | -2,992.0      | -937.3        | 1.53                | 1.52                 | -0.11               | 32.8                   | 1.2                     |  |
| 16,235.0     | 92.20      | 178.50               | 13,148.4      | -3,085.9      | -934.7        | 0.75                | -0.74                | 0.11                | 30.7                   | 3.1                     |  |
| 16,329.0     | 91.80      | 178.00               | 13,145.1      | -3,179.8      | -931.9        | 0.68                | -0.43                | -0.53               | 29.4                   | 5.4                     |  |
| 16,422.0     | 89.30      | 177.30               | 13,144.2      | -3,272.7      | -928.1        | 2.79                | -2.69                | -0.75               | 30.6                   | 8.8                     |  |
| 16,515.0     | 88.70      | 177.40               | 13,145.8      | -3,365.6      | -923.8        | 0.65                | -0.65                | 0.11                | 34.2                   | 12.3                    |  |
| 16,608.0     | 90.70      | 178.80               | 13,146.3      | -3,458.5      | -920.7        | 2.63                | 2.15                 | 1.51                | 36.7                   | 14.8                    |  |
| 16,700.0     | 90.60      | 178.90               | 13,145.3      | -3,550.5      | -918.8        | 0.15                | -0.11                | 0.11                | 37.7                   | 16.0                    |  |
| 16,818.0     | 90.50      | 177.90               | 13,144.1      | -3,648.4      | -915.5        | 0.85                | -0.08                | -0.85               | 39.2                   | 18.5                    |  |
| 16,911.0     | 92.00      | 180.20               | 13,142.1      | -3,761.4      | -914.0        | 2.95                | 1.61                 | 2.47                | 39.2                   | 19.5                    |  |
| 17,005.0     | 90.10      | 178.70               | 13,140.4      | -3,855.4      | -913.1        | 2.58                | -2.02                | -1.60               | 39.5                   | 19.8                    |  |
| 17,098.0     | 92.80      | 180.50               | 13,138.0      | -3,948.3      | -912.4        | 3.49                | 2.90                 | 1.94                | 39.2                   | 19.9                    |  |



Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 18 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| MD<br>(usft) | Inc<br>(°) | Asd (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLog<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 17,192.0     | 92.40      | 180.30               | 13,133.8      | -4,042.2      | -913.1       | 0.48                | -0.43                | -0.21               | 37.0                   | 18.6                    |
| 17,288.0     | 92.90      | 179.70               | 13,129.4      | -4,136.1      | -913.1       | 0.83                | 0.53                 | -0.64               | 34.7                   | 18.0                    |
| 17,380.0     | 94.10      | 180.60               | 13,123.7      | -4,230.0      | -913.3       | 1.59                | 1.28                 | 0.96                | 31.0                   | 17.2                    |
| 17,473.0     | 92.00      | 182.90               | 13,118.7      | -4,322.8      | -916.2       | 3.35                | -2.26                | 2.47                | 28.1                   | 13.7                    |
| 17,567.0     | 91.10      | 183.10               | 13,116.2      | -4,416.6      | -921.1       | 0.98                | -0.96                | 0.21                | 27.6                   | 8.2                     |
| 17,661.0     | 92.20      | 180.10               | 13,113.5      | -4,510.5      | -923.7       | 3.40                | 1.17                 | -3.19               | 26.9                   | 5.0                     |
| 17,755.0     | 89.70      | 178.20               | 13,111.9      | -4,604.5      | -922.3       | 3.34                | -2.66                | -2.02               | 27.4                   | 5.7                     |
| 17,847.0     | 91.50      | 179.80               | 13,111.0      | -4,696.5      | -920.7       | 2.62                | 1.96                 | 1.74                | 28.5                   | 6.8                     |
| 17,941.0     | 91.60      | 179.70               | 13,108.4      | -4,790.4      | -920.3       | 0.15                | 0.11                 | -0.11               | 28.0                   | 6.6                     |
| 18,034.0     | 91.60      | 179.70               | 13,105.8      | -4,883.4      | -919.8       | 0.00                | 0.00                 | 0.00                | 27.4                   | 6.5                     |
| 18,128.0     | 93.30      | 181.40               | 13,101.8      | -4,977.3      | -920.7       | 2.56                | 1.81                 | 1.81                | 25.4                   | 5.0                     |
| 18,222.0     | 91.50      | 182.40               | 13,097.9      | -5,071.1      | -923.8       | 2.19                | -1.91                | 1.06                | 23.6                   | 1.3                     |
| 18,316.0     | 91.20      | 181.70               | 13,095.7      | -5,165.1      | -927.2       | 0.81                | -0.32                | -0.74               | 23.4                   | -2.7                    |
| 18,410.0     | 90.60      | 181.70               | 13,094.2      | -5,259.0      | -930.0       | 0.64                | -0.64                | 0.00                | 23.8                   | -8.1                    |
| 18,503.0     | 91.00      | 182.90               | 13,092.9      | -5,351.9      | -933.7       | 1.36                | 0.43                 | 1.29                | 23.7                   | -10.4                   |
| 18,596.0     | 89.30      | 179.50               | 13,092.6      | -5,444.9      | -935.7       | 4.09                | -1.83                | -3.66               | 24.8                   | -13.0                   |
| 18,690.0     | 86.50      | 177.40               | 13,086.1      | -5,538.8      | -933.1       | 3.72                | -2.98                | -2.23               | 29.2                   | -11.1                   |
| 18,784.0     | 87.90      | 176.80               | 13,100.7      | -5,632.5      | -926.4       | 1.62                | 1.49                 | -0.84               | 35.0                   | -6.9                    |
| 18,877.0     | 91.10      | 179.20               | 13,101.5      | -5,725.5      | -925.1       | 4.30                | 3.44                 | 2.58                | 37.0                   | -4.3                    |
| 18,971.0     | 89.10      | 178.60               | 13,101.3      | -5,819.4      | -923.3       | 2.22                | -2.13                | -0.64               | 38.1                   | -3.1                    |
| 19,064.0     | 92.20      | 179.60               | 13,100.3      | -5,912.4      | -921.9       | 3.50                | 3.33                 | 1.08                | 38.2                   | -2.2                    |
| 19,157.0     | 93.20      | 179.90               | 13,095.9      | -6,005.3      | -921.5       | 1.12                | 1.08                 | 0.32                | 35.0                   | -2.4                    |
| 19,251.0     | 93.80      | 181.30               | 13,090.1      | -6,099.1      | -922.4       | 1.66                | 0.74                 | 1.49                | 30.4                   | -4.0                    |
| 19,345.0     | 90.40      | 179.70               | 13,086.5      | -6,193.0      | -923.3       | 4.09                | -3.72                | -1.70               | 28.0                   | -5.4                    |
| 19,439.0     | 92.80      | 179.30               | 13,083.8      | -6,287.0      | -922.4       | 2.69                | 2.66                 | -0.43               | 26.5                   | -5.2                    |
| 19,533.0     | 91.40      | 179.00               | 13,080.3      | -6,380.9      | -921.1       | 1.63                | -1.60                | -0.32               | 24.2                   | -4.4                    |
| 19,626.0     | 90.50      | 177.70               | 13,078.8      | -6,473.8      | -918.4       | 1.70                | -0.97                | -1.40               | 23.8                   | -2.3                    |



# Midland PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Green Drake 18 Fed Com  
 Well: #759H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference: Well #759H  
 TVD Reference: KB = 25 @ 3423.0usft  
 MD Reference: KB = 25 @ 3423.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 5000.14

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 19,720.0     | 87.30      | 176.20               | 13,080.8      | -8,567.7      | -913.4        | 3.76                | -3.40                | -1.60               | 26.8                   | 2.0                     |
| 19,814.0     | 90.10      | 177.20               | 13,082.7      | -8,661.5      | -908.0        | 3.16                | 2.98                 | 1.06                | 30.2                   | 6.8                     |
| 19,907.0     | 93.60      | 179.90               | 13,079.7      | -8,754.4      | -905.6        | 4.75                | 3.76                 | 2.90                | 28.3                   | 8.6                     |
| 20,001.0     | 93.70      | 180.10               | 13,073.7      | -8,848.2      | -905.6        | 0.24                | 0.11                 | 0.21                | 23.6                   | 8.0                     |
| 20,094.0     | 93.80      | 180.00               | 13,067.6      | -8,941.0      | -905.7        | 0.15                | 0.11                 | -0.11               | 18.7                   | 7.3                     |
| 20,188.0     | 95.10      | 179.60               | 13,060.3      | -7,034.7      | -905.4        | 1.45                | 1.38                 | -0.43               | 12.6                   | 7.1                     |
| 20,282.0     | 92.10      | 180.40               | 13,054.4      | -7,128.5      | -905.4        | 3.30                | -3.19                | 0.85                | 7.9                    | 6.5                     |
| 20,375.0     | 92.20      | 180.90               | 13,050.9      | -7,221.4      | -906.4        | 0.55                | 0.11                 | 0.54                | 5.6                    | 4.8                     |
| 20,468.0     | 94.30      | 180.60               | 13,045.7      | -7,314.3      | -907.6        | 2.28                | 2.26                 | -0.32               | 1.5                    | 3.0                     |
| 20,562.0     | 96.40      | 181.20               | 13,036.9      | -7,407.8      | -909.1        | 2.32                | 2.23                 | 0.64                | -6.1                   | 0.9                     |
| 20,720.0     | 96.40      | 181.20               | 13,019.3      | -7,564.8      | -912.4        | 0.00                | 0.00                 | 0.00                | -21.7                  | -3.4                    |

| Design Annotations          |                             |                   |                |                                                                             |
|-----------------------------|-----------------------------|-------------------|----------------|-----------------------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                                                                     |
|                             |                             | +N/S<br>(usft)    | +E/W<br>(usft) |                                                                             |
| 12,742.0                    | 12,645.9                    | 175.4             | -980.0         | KOP, MD:12742.0', TVD:12645.9', N/S:175.4', E/W:-980.0', INC:1.74           |
| 12,887.6                    | 12,785.7                    | 145.0             | -968.5         | FTP Crossing, MD:12887.6', TVD:12785.7', N/S:145.0', E/W:-968.5', INC:31.81 |
| 20,562.0                    | 13,036.9                    | -7,407.8          | -909.1         | Last MWD Survey (MD=20562.0')                                               |
| 20,720.0                    | 13,019.3                    | -7,564.8          | -912.4         | Projection to Bit (MD=20720.0')                                             |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Lea County, NM (NAD 83 NME)  
Green Drake 16 Fed Com #759H  
Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #759H

KB = 25 @ 3423.0ust 3398.0  
Northing 411813.00 Easting 776658.00 Latitude 32° 7' 47.603 N Longitude 103° 34' 34.940 W

SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | Dleg  | TFace  | VSect  | Target                |
|-----|---------|-------|--------|---------|---------|--------|-------|--------|--------|-----------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0     | 0.00   | 0.00  | 0.00   | 0.0    |                       |
| 2   | 1250.0  | 0.00  | 0.00   | 1250.0  | 0.0     | 0.00   | 0.00  | 0.00   | 0.0    |                       |
| 3   | 1824.9  | 11.50 | 281.49 | 1821.0  | 11.5    | -56.3  | 2.00  | 281.49 | -4.7   |                       |
| 4   | 6157.8  | 11.50 | 281.49 | 6067.0  | 183.5   | -802.7 | 0.00  | 0.00   | -74.6  |                       |
| 5   | 6732.6  | 0.00  | 0.00   | 6638.0  | 195.0   | -859.0 | 2.00  | 180.00 | -79.2  |                       |
| 6   | 12743.6 | 0.00  | 0.00   | 12649.0 | 195.0   | -859.0 | 0.00  | 0.00   | -79.2  |                       |
| 7   | 13483.8 | 88.82 | 179.63 | 13128.4 | -272.6  | -856.0 | 12.00 | 179.63 | 364.7  |                       |
| 8   | 14195.9 | 88.82 | 179.63 | 13141.0 | -884.5  | -951.4 | 0.00  | 0.00   | 1091.0 | TGT#1(GD 16 FC #709H) |
| 9   | 14257.1 | 90.05 | 179.63 | 13141.6 | -1045.7 | -951.0 | 2.00  | 0.00   | 1151.7 |                       |
| 10  | 14996.3 | 90.05 | 179.63 | 13141.0 | -1784.9 | -946.2 | 0.00  | 0.00   | 1885.0 | TGT#2(GD 16 FC #709H) |
| 11  | 15036.6 | 90.85 | 179.63 | 13140.7 | -1825.2 | -946.0 | 2.00  | 0.00   | 1925.0 |                       |
| 12  | 15688.8 | 90.85 | 179.63 | 13131.0 | -2475.3 | -941.8 | 0.00  | 0.00   | 2570.0 | TGT#3(GD 16 FC #709H) |
| 13  | 15706.7 | 91.25 | 179.63 | 13130.6 | -2495.3 | -941.7 | 2.00  | 0.00   | 2589.8 |                       |
| 14  | 18434.3 | 91.25 | 179.63 | 13071.0 | -5222.1 | -924.1 | 0.00  | 0.00   | 5295.0 | TGT#4(GD 16 FC #709H) |
| 15  | 18460.4 | 90.73 | 179.63 | 13070.5 | -5248.2 | -923.9 | 2.00  | 180.00 | 5321.0 |                       |
| 16  | 20778.4 | 90.73 | 179.63 | 13041.0 | -7566.0 | -909.0 | 0.00  | 0.00   | 7620.4 | PBHL(GD 16 FC #709H)  |

CASING DETAILS

No casing data is available

WELLBORE TAPPOINT DETAILS (MAP CO-ORDINATES)

| Name                       | TVD     | +N/-S   | +E/-W  | Northing  | Easting   |
|----------------------------|---------|---------|--------|-----------|-----------|
| AC TOT(GD 16 FC #709H)     | 5892.8  | 179.5   | -887.9 | 411883.43 | 774790.06 |
| Brushy Top(GD 16 FC #709H) | 7572.0  | 185.0   | -839.0 | 412008.00 | 774639.00 |
| PBHL(GD 16 FC #709H)       | 13041.0 | -788.0  | -809.0 | 404347.00 | 774749.00 |
| TGT#1(GD 16 FC #709H)      | 13071.0 | -822.1  | -824.1 | 406390.80 | 774733.80 |
| FTF(GD 16 FC #709H)        | 13121.0 | 143.0   | -809.0 | 411883.00 | 774639.00 |
| TGT#2(GD 16 FC #709H)      | 13131.0 | -847.3  | -841.8 | 408337.70 | 774718.20 |
| TGT#3(GD 16 FC #709H)      | 13141.0 | -884.5  | -831.4 | 410828.00 | 774708.00 |
| TGT#4(GD 16 FC #709H)      | 13161.0 | -1784.9 | -868.2 | 410028.10 | 774711.78 |

