



## **EOG Resources - Midland**

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

**Durango 2 State**

**#707H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**20 June, 2019**



# Planning Report

Database: EDM 5000.14  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Durango 2 State  
Well: #707H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H  
TVD Reference: KB = 25 @ 3454.0usft  
MD Reference: KB = 25 @ 3454.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

|             |                             |               |                |
|-------------|-----------------------------|---------------|----------------|
| 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                  | Durango 2 State |              |                 |                   |                  |
| Site Position:        |                 | Northing:    | 425,051.00 usft | Latitude:         | 32° 9' 58.041 N  |
| From:                 | Map             | Easting:     | 783,515.00 usft | Longitude:        | 103° 33' 2.454 W |
| Position Uncertainty: | 0.0 usft        | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.42 °           |

|                      |       |               |                     |                 |               |                   |
|----------------------|-------|---------------|---------------------|-----------------|---------------|-------------------|
| Well                 | #707H |               |                     |                 |               |                   |
| Well Position        | +N/-S | -4,287.0 usft | Northing:           | 420,764.00 usft | Latitude:     | 32° 9' 15.322 N   |
|                      | +E/-W | 4,111.0 usft  | Easting:            | 787,626.00 usft | Longitude:    | 103° 32' 14.999 W |
| Position Uncertainty |       | 0.0 usft      | Wellhead Elevation: |                 | Ground Level: | 3,429.0 usft      |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 6/20/2019   | 6.71            | 59.98         | 47,693.86295796     |

|                   |                         |              |               |               |  |
|-------------------|-------------------------|--------------|---------------|---------------|--|
| Design            | Plan #0.1               |              |               |               |  |
| Audit Notes:      |                         |              |               |               |  |
| Version:          | Phase:                  | PLAN         | Tie On Depth: | 0.0           |  |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft)  | Direction (°) |  |
|                   | 0.0                     | 0.0          | 0.0           | 358.48        |  |

|                          |                 |                         |                     |         |  |
|--------------------------|-----------------|-------------------------|---------------------|---------|--|
| Plan Survey Tool Program | Date 6/20/2019  |                         |                     |         |  |
| Depth From (usft)        | Depth To (usft) | Survey (Wellbore)       | Tool Name           | Remarks |  |
| 1                        | 0.0             | 17,454.5 Plan #0.1 (OH) | MWD                 |         |  |
|                          |                 |                         | OWSG MWD - Standard |         |  |

|                       |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                     |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target              |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 1,711.4               | 6.23            | 187.74      | 1,710.8               | -16.8        | -2.3         | 2.00                    | 2.00                   | 0.00                  | 187.74  |                     |
| 7,491.9               | 6.23            | 187.74      | 7,457.2               | -638.2       | -86.7        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 7,803.4               | 0.00            | 0.00        | 7,768.0               | -655.0       | -89.0        | 2.00                    | -2.00                  | 0.00                  | 180.00  |                     |
| 12,055.9              | 0.00            | 0.00        | 12,020.5              | -655.0       | -89.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | KOP(Durango 2 State |
| 12,805.8              | 90.00           | 359.66      | 12,498.0              | -177.5       | -91.8        | 12.00                   | 12.00                  | -0.04                 | 359.66  |                     |
| 17,454.5              | 90.00           | 359.66      | 12,498.0              | 4,471.0      | -119.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL(Durango 2 Stat |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #707H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3454.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3454.0usft |
| Site:     | Durango 2 State             | North Reference:             | Grid                 |
| Well:     | #707H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.1                   |                              |                      |

| 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) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 2.00            | 187.74      | 1,500.0               | -1.7         | -0.2         | -1.7                    | 2.00                    | 2.00                   | 0.00                  |
| 1,600.0               | 4.00            | 187.74      | 1,599.8               | -6.9         | -0.9         | -6.9                    | 2.00                    | 2.00                   | 0.00                  |
| 1,700.0               | 6.00            | 187.74      | 1,699.5               | -15.6        | -2.1         | -15.5                   | 2.00                    | 2.00                   | 0.00                  |
| 1,711.4               | 6.23            | 187.74      | 1,710.8               | -16.8        | -2.3         | -16.7                   | 2.00                    | 2.00                   | 0.00                  |
| 1,800.0               | 6.23            | 187.74      | 1,798.9               | -26.3        | -3.6         | -26.2                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 6.23            | 187.74      | 1,898.3               | -37.0        | -5.0         | -36.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 6.23            | 187.74      | 1,997.7               | -47.8        | -6.5         | -47.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 6.23            | 187.74      | 2,097.1               | -58.5        | -8.0         | -58.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 6.23            | 187.74      | 2,196.5               | -69.3        | -9.4         | -69.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 6.23            | 187.74      | 2,295.9               | -80.0        | -10.9        | -79.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 6.23            | 187.74      | 2,395.3               | -90.8        | -12.3        | -90.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 6.23            | 187.74      | 2,494.7               | -101.5       | -13.8        | -101.1                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 6.23            | 187.74      | 2,594.1               | -112.3       | -15.3        | -111.8                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 6.23            | 187.74      | 2,693.6               | -123.0       | -16.7        | -122.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 6.23            | 187.74      | 2,793.0               | -133.8       | -18.2        | -133.3                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 6.23            | 187.74      | 2,892.4               | -144.5       | -19.6        | -144.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 6.23            | 187.74      | 2,991.8               | -155.3       | -21.1        | -154.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 6.23            | 187.74      | 3,091.2               | -166.0       | -22.6        | -165.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 6.23            | 187.74      | 3,190.6               | -176.8       | -24.0        | -176.1                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 6.23            | 187.74      | 3,290.0               | -187.6       | -25.5        | -186.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 6.23            | 187.74      | 3,389.4               | -198.3       | -26.9        | -197.5                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 6.23            | 187.74      | 3,488.8               | -209.1       | -28.4        | -208.2                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 6.23            | 187.74      | 3,588.2               | -219.8       | -29.9        | -218.9                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 6.23            | 187.74      | 3,687.6               | -230.6       | -31.3        | -229.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 6.23            | 187.74      | 3,787.1               | -241.3       | -32.8        | -240.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 6.23            | 187.74      | 3,886.5               | -252.1       | -34.2        | -251.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 6.23            | 187.74      | 3,985.9               | -262.8       | -35.7        | -261.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 6.23            | 187.74      | 4,085.3               | -273.6       | -37.2        | -272.5                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 6.23            | 187.74      | 4,184.7               | -284.3       | -38.6        | -283.2                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 6.23            | 187.74      | 4,284.1               | -295.1       | -40.1        | -293.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 6.23            | 187.74      | 4,383.5               | -305.8       | -41.6        | -304.6                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 6.23            | 187.74      | 4,482.9               | -316.6       | -43.0        | -315.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 6.23            | 187.74      | 4,582.3               | -327.3       | -44.5        | -326.0                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 6.23            | 187.74      | 4,681.7               | -338.1       | -45.9        | -336.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 6.23            | 187.74      | 4,781.2               | -348.8       | -47.4        | -347.4                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 6.23            | 187.74      | 4,880.6               | -359.6       | -48.9        | -358.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 6.23            | 187.74      | 4,980.0               | -370.3       | -50.3        | -368.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 6.23            | 187.74      | 5,079.4               | -381.1       | -51.8        | -379.6                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 6.23            | 187.74      | 5,178.8               | -391.8       | -53.2        | -390.3                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Durango 2 State  
 Well: #707H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #707H  
 TVD Reference: KB = 25 @ 3454.0usft  
 MD Reference: KB = 25 @ 3454.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,300.0               | 6.23            | 187.74      | 5,278.2               | -402.6       | -54.7        | -401.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 6.23            | 187.74      | 5,377.6               | -413.3       | -56.2        | -411.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 6.23            | 187.74      | 5,477.0               | -424.1       | -57.6        | -422.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 6.23            | 187.74      | 5,576.4               | -434.8       | -59.1        | -433.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 6.23            | 187.74      | 5,675.8               | -445.6       | -60.5        | -443.8                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 6.23            | 187.74      | 5,775.2               | -456.3       | -62.0        | -454.5                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 6.23            | 187.74      | 5,874.7               | -467.1       | -63.5        | -465.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 6.23            | 187.74      | 5,974.1               | -477.8       | -64.9        | -475.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 6.23            | 187.74      | 6,073.5               | -488.6       | -66.4        | -486.7                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 6.23            | 187.74      | 6,172.9               | -499.3       | -67.8        | -497.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 6.23            | 187.74      | 6,272.3               | -510.1       | -69.3        | -508.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 6.23            | 187.74      | 6,371.7               | -520.8       | -70.8        | -518.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 6.23            | 187.74      | 6,471.1               | -531.6       | -72.2        | -529.5                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 6.23            | 187.74      | 6,570.5               | -542.3       | -73.7        | -540.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 6.23            | 187.74      | 6,669.9               | -553.1       | -75.2        | -550.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 6.23            | 187.74      | 6,769.3               | -563.9       | -76.6        | -561.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 6.23            | 187.74      | 6,868.8               | -574.6       | -78.1        | -572.3                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 6.23            | 187.74      | 6,968.2               | -585.4       | -79.5        | -583.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 6.23            | 187.74      | 7,067.6               | -596.1       | -81.0        | -593.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 6.23            | 187.74      | 7,167.0               | -606.9       | -82.5        | -604.4                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 6.23            | 187.74      | 7,266.4               | -617.6       | -83.9        | -615.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 6.23            | 187.74      | 7,365.8               | -628.4       | -85.4        | -625.9                  | 0.00                    | 0.00                   | 0.00                  |
| 7,491.9               | 6.23            | 187.74      | 7,457.2               | -638.2       | -86.7        | -635.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 6.07            | 187.74      | 7,465.2               | -639.1       | -86.8        | -636.6                  | 2.00                    | -2.00                  | 0.00                  |
| 7,600.0               | 4.07            | 187.74      | 7,564.8               | -647.9       | -88.0        | -645.3                  | 2.00                    | -2.00                  | 0.00                  |
| 7,700.0               | 2.07            | 187.74      | 7,664.7               | -653.2       | -88.7        | -650.6                  | 2.00                    | -2.00                  | 0.00                  |
| 7,803.4               | 0.00            | 0.00        | 7,768.0               | -655.0       | -89.0        | -652.4                  | 2.00                    | -2.00                  | 0.00                  |
| 7,900.0               | 0.00            | 0.00        | 7,864.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.00            | 0.00        | 7,964.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.00            | 0.00        | 8,064.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.00            | 0.00        | 8,164.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.00            | 0.00        | 8,264.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.00            | 0.00        | 8,364.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.00            | 0.00        | 8,464.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.00            | 0.00        | 8,564.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.00            | 0.00        | 8,664.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.00            | 0.00        | 8,764.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 0.00            | 0.00        | 8,864.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 0.00            | 0.00        | 8,964.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 0.00            | 0.00        | 9,064.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 0.00            | 0.00        | 9,164.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 0.00            | 0.00        | 9,264.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 0.00            | 0.00        | 9,364.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 0.00            | 0.00        | 9,464.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 0.00            | 0.00        | 9,564.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 0.00            | 0.00        | 9,664.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 0.00            | 0.00        | 9,764.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 0.00            | 0.00        | 9,864.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 0.00            | 0.00        | 9,964.6               | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 0.00            | 0.00        | 10,064.6              | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 0.00            | 0.00        | 10,164.6              | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 0.00            | 0.00        | 10,264.6              | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 0.00            | 0.00        | 10,364.6              | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 0.00            | 0.00        | 10,464.6              | -655.0       | -89.0        | -652.4                  | 0.00                    | 0.00                   | 0.00                  |

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #707H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3454.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3454.0usft |
| Site:     | Durango 2 State             | North Reference:             | Grid                 |
| Well:     | #707H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.1                   |                              |                      |

| 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) |  |
| 10,600.0                    | 0.00               | 0.00           | 10,564.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 10,700.0                    | 0.00               | 0.00           | 10,664.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 10,800.0                    | 0.00               | 0.00           | 10,764.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 10,900.0                    | 0.00               | 0.00           | 10,864.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,000.0                    | 0.00               | 0.00           | 10,964.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,100.0                    | 0.00               | 0.00           | 11,064.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,200.0                    | 0.00               | 0.00           | 11,164.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,300.0                    | 0.00               | 0.00           | 11,264.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,400.0                    | 0.00               | 0.00           | 11,364.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,500.0                    | 0.00               | 0.00           | 11,464.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,600.0                    | 0.00               | 0.00           | 11,564.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,700.0                    | 0.00               | 0.00           | 11,664.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,800.0                    | 0.00               | 0.00           | 11,764.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 11,900.0                    | 0.00               | 0.00           | 11,864.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 12,000.0                    | 0.00               | 0.00           | 11,964.6                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 12,055.9                    | 0.00               | 0.00           | 12,020.5                    | -655.0          | -89.0           | -652.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| KOP(Durango 2 State #707H)  |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 12,075.0                    | 2.30               | 359.66         | 12,039.6                    | -654.6          | -89.0           | -652.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,100.0                    | 5.30               | 359.66         | 12,064.6                    | -653.0          | -89.0           | -650.4                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,125.0                    | 8.30               | 359.66         | 12,089.4                    | -650.0          | -89.0           | -647.4                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,150.0                    | 11.30              | 359.66         | 12,114.0                    | -645.7          | -89.1           | -643.2                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,175.0                    | 14.30              | 359.66         | 12,138.4                    | -640.2          | -89.1           | -637.6                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,200.0                    | 17.30              | 359.66         | 12,162.5                    | -633.4          | -89.1           | -630.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,225.0                    | 20.30              | 359.66         | 12,186.1                    | -625.4          | -89.2           | -622.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,250.0                    | 23.30              | 359.66         | 12,209.3                    | -616.1          | -89.2           | -613.5                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,275.0                    | 26.30              | 359.66         | 12,232.0                    | -605.6          | -89.3           | -603.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,300.0                    | 29.30              | 359.66         | 12,254.1                    | -593.9          | -89.4           | -591.3                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,325.0                    | 32.30              | 359.66         | 12,275.6                    | -581.1          | -89.4           | -578.5                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,350.0                    | 35.30              | 359.66         | 12,296.4                    | -567.2          | -89.5           | -564.6                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,375.0                    | 38.30              | 359.66         | 12,316.4                    | -552.3          | -89.6           | -549.7                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,400.0                    | 41.30              | 359.66         | 12,335.6                    | -536.3          | -89.7           | -533.7                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,425.0                    | 44.30              | 359.66         | 12,354.0                    | -519.3          | -89.8           | -516.7                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,450.0                    | 47.30              | 359.66         | 12,371.4                    | -501.3          | -89.9           | -498.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,455.4                    | 47.95              | 359.66         | 12,375.0                    | -497.3          | -89.9           | -494.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| FTP(Durango 2 State #707H)  |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 12,475.0                    | 50.30              | 359.66         | 12,387.8                    | -482.5          | -90.0           | -480.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,500.0                    | 53.30              | 359.66         | 12,403.3                    | -462.9          | -90.1           | -460.3                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,525.0                    | 56.30              | 359.66         | 12,417.7                    | -442.5          | -90.2           | -439.9                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,550.0                    | 59.30              | 359.66         | 12,431.0                    | -421.3          | -90.4           | -418.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,575.0                    | 62.30              | 359.66         | 12,443.2                    | -399.5          | -90.5           | -397.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,600.0                    | 65.30              | 359.66         | 12,454.3                    | -377.1          | -90.6           | -374.5                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,625.0                    | 68.30              | 359.66         | 12,464.1                    | -354.1          | -90.8           | -351.6                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,650.0                    | 71.30              | 359.66         | 12,472.8                    | -330.6          | -90.9           | -328.1                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,675.0                    | 74.30              | 359.66         | 12,480.1                    | -306.8          | -91.0           | -304.2                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,700.0                    | 77.30              | 359.66         | 12,486.3                    | -282.5          | -91.2           | -280.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,725.0                    | 80.30              | 359.66         | 12,491.1                    | -258.0          | -91.3           | -255.5                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,750.0                    | 83.30              | 359.66         | 12,494.7                    | -233.3          | -91.5           | -230.8                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,775.0                    | 86.30              | 359.66         | 12,497.0                    | -208.4          | -91.6           | -205.9                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,800.0                    | 89.30              | 359.66         | 12,497.9                    | -183.4          | -91.8           | -180.9                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,805.8                    | 90.00              | 359.66         | 12,498.0                    | -177.5          | -91.8           | -175.0                        | 12.00                         | 12.00                        | 0.00                        |  |
| 12,900.0                    | 90.00              | 359.66         | 12,498.0                    | -83.4           | -92.3           | -80.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 13,000.0                    | 90.00              | 359.66         | 12,498.0                    | 16.6            | -92.9           | 19.1                          | 0.00                          | 0.00                         | 0.00                        |  |
| 13,100.0                    | 90.00              | 359.66         | 12,498.0                    | 116.6           | -93.5           | 119.0                         | 0.00                          | 0.00                         | 0.00                        |  |
| 13,200.0                    | 90.00              | 359.66         | 12,498.0                    | 216.6           | -94.1           | 219.0                         | 0.00                          | 0.00                         | 0.00                        |  |



# Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.14                 | <b>Local Co-ordinate Reference:</b> | Well #707H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3454.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3454.0usft |
| <b>Site:</b>     | Durango 2 State             | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #707H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,300.0              | 90.00           | 359.66      | 12,498.0              | 316.6        | -94.7        | 319.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 359.66      | 12,498.0              | 416.6        | -95.3        | 419.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 359.66      | 12,498.0              | 516.6        | -95.9        | 519.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 359.66      | 12,498.0              | 616.6        | -96.4        | 618.9                   | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 359.66      | 12,498.0              | 716.6        | -97.0        | 718.9                   | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 359.66      | 12,498.0              | 816.6        | -97.6        | 818.9                   | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 359.66      | 12,498.0              | 916.6        | -98.2        | 918.9                   | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 359.66      | 12,498.0              | 1,016.6      | -98.8        | 1,018.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 359.66      | 12,498.0              | 1,116.6      | -99.4        | 1,118.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 359.66      | 12,498.0              | 1,216.6      | -100.0       | 1,218.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 359.66      | 12,498.0              | 1,316.6      | -100.5       | 1,318.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 359.66      | 12,498.0              | 1,416.6      | -101.1       | 1,418.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 359.66      | 12,498.0              | 1,516.6      | -101.7       | 1,518.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 359.66      | 12,498.0              | 1,616.6      | -102.3       | 1,618.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 359.66      | 12,498.0              | 1,716.6      | -102.9       | 1,718.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 359.66      | 12,498.0              | 1,816.6      | -103.5       | 1,818.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 359.66      | 12,498.0              | 1,916.6      | -104.1       | 1,918.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 359.66      | 12,498.0              | 2,016.6      | -104.6       | 2,018.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 359.66      | 12,498.0              | 2,116.6      | -105.2       | 2,118.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 359.66      | 12,498.0              | 2,216.6      | -105.8       | 2,218.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 359.66      | 12,498.0              | 2,316.6      | -106.4       | 2,318.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 359.66      | 12,498.0              | 2,416.6      | -107.0       | 2,418.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 359.66      | 12,498.0              | 2,516.6      | -107.6       | 2,518.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 359.66      | 12,498.0              | 2,616.6      | -108.1       | 2,618.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 359.66      | 12,498.0              | 2,716.6      | -108.7       | 2,718.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 359.66      | 12,498.0              | 2,816.6      | -109.3       | 2,818.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 359.66      | 12,498.0              | 2,916.6      | -109.9       | 2,918.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 359.66      | 12,498.0              | 3,016.5      | -110.5       | 3,018.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 359.66      | 12,498.0              | 3,116.5      | -111.1       | 3,118.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 359.66      | 12,498.0              | 3,216.5      | -111.7       | 3,218.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 359.66      | 12,498.0              | 3,316.5      | -112.2       | 3,318.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 359.66      | 12,498.0              | 3,416.5      | -112.8       | 3,418.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 359.66      | 12,498.0              | 3,516.5      | -113.4       | 3,518.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 359.66      | 12,498.0              | 3,616.5      | -114.0       | 3,618.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 359.66      | 12,498.0              | 3,716.5      | -114.6       | 3,718.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 359.66      | 12,498.0              | 3,816.5      | -115.2       | 3,818.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 359.66      | 12,498.0              | 3,916.5      | -115.8       | 3,918.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 359.66      | 12,498.0              | 4,016.5      | -116.3       | 4,018.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 359.66      | 12,498.0              | 4,116.5      | -116.9       | 4,118.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 359.66      | 12,498.0              | 4,216.5      | -117.5       | 4,218.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 359.66      | 12,498.0              | 4,316.5      | -118.1       | 4,318.1                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 359.66      | 12,498.0              | 4,416.5      | -118.7       | 4,418.1                 | 0.00                    | 0.00                   | 0.00                  |
| 17,454.5              | 90.00           | 359.66      | 12,498.0              | 4,471.0      | -119.0       | 4,472.6                 | 0.00                    | 0.00                   | 0.00                  |

PBHL(Durango 2 State #707H)



# Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.14                 | <b>Local Co-ordinate Reference:</b> | Well #707H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3454.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3454.0usft |
| <b>Site:</b>     | Durango 2 State             | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #707H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Design Targets                                                                                                                   |           |          |          |         |        |            |            |                 |                   |
|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|---------|--------|------------|------------|-----------------|-------------------|
| Target Name                                                                                                                      | Dip Angle | Dip Dir. | TVD      | +N/-S   | +E/-W  | Northing   | Easting    | Latitude        | Longitude         |
| - hit/miss target                                                                                                                | (°)       | (°)      | (usft)   | (usft)  | (usft) | (usft)     | (usft)     |                 |                   |
| - Shape                                                                                                                          |           |          |          |         |        |            |            |                 |                   |
| KOP(Durango 2 State #1<br>- plan hits target center<br>- Point                                                                   | 0.00      | 0.00     | 12,020.5 | -655.0  | -89.0  | 420,109.00 | 787,537.00 | 32° 9' 8.847 N  | 103° 32' 16.090 W |
| FTP(Durango 2 State #7<br>- plan misses target center by 163.4usft at 12455.4usft MD (12375.0 TVD, -497.3 N, -89.9 E)<br>- Point | 0.00      | 0.00     | 12,498.0 | -605.0  | -89.0  | 420,159.00 | 787,537.00 | 32° 9' 9.342 N  | 103° 32' 16.086 W |
| PBHL(Durango 2 State #1<br>- plan hits target center<br>- Point                                                                  | 0.00      | 0.00     | 12,498.0 | 4,471.0 | -119.0 | 425,235.00 | 787,507.00 | 32° 9' 59.572 N | 103° 32' 15.998 W |