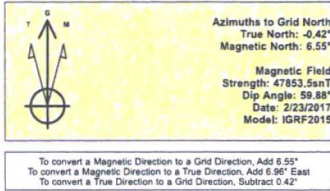




Lea County, NM (NAD 83 NME)  
Dogwood 23 Fed Com #709H  
Plan #0.1



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: #709H  
Ground Level: 3287.00  
KB = 25' @ 3312.00usft  
Northing: 372709.00 Easting: 784447.00 Latitude: 32.02223115 Longitude: -103.54890043

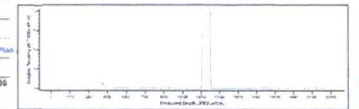
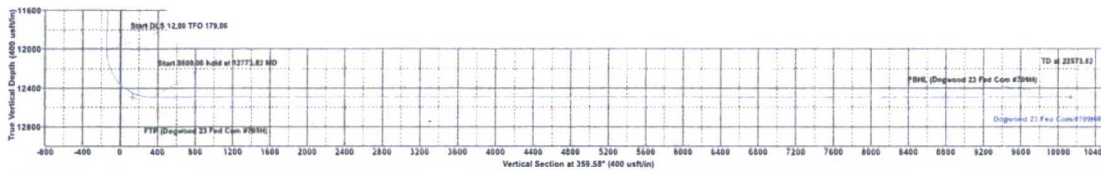
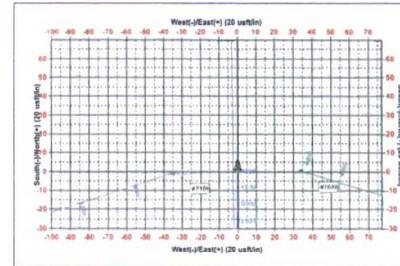
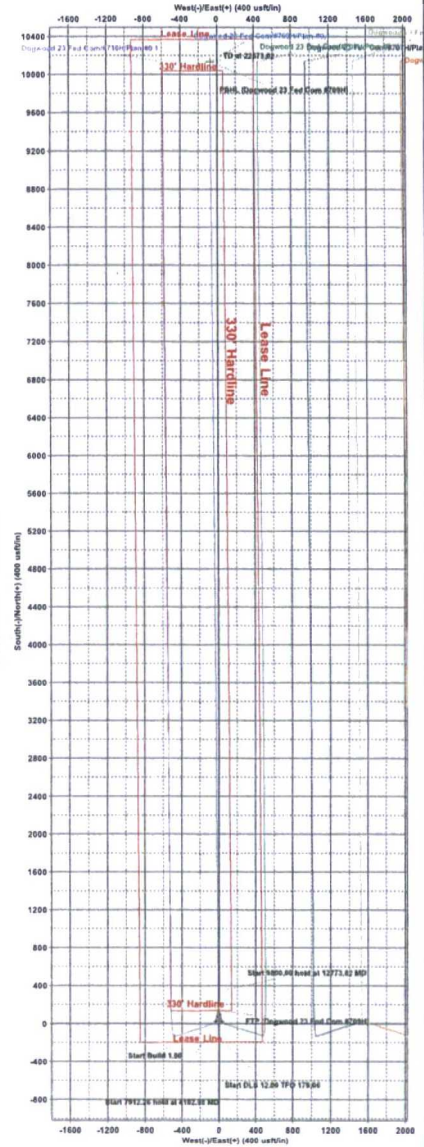
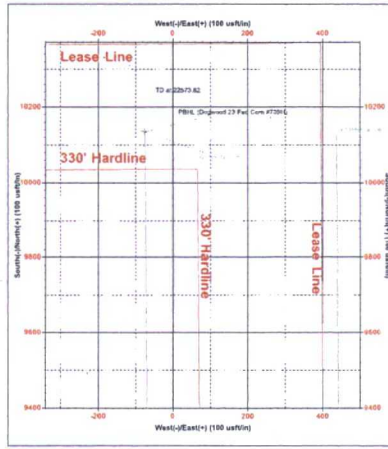
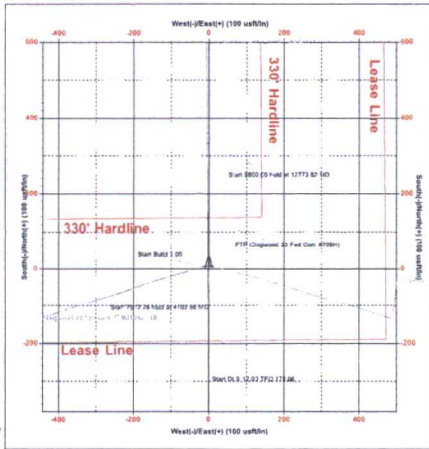
SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W  | Dleg  | TFace  | VSect    | Target                          |
|-----|----------|-------|--------|----------|----------|--------|-------|--------|----------|---------------------------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00   | 0.00  | 0.00   | 0.00     |                                 |
| 2   | 4000.00  | 0.00  | 0.00   | 4000.00  | 0.00     | 0.00   | 0.00  | 0.00   | 0.00     |                                 |
| 3   | 4102.98  | 1.03  | 180.53 | 4102.98  | -0.93    | -0.01  | 1.00  | 180.53 | -0.93    |                                 |
| 4   | 12015.24 | 1.03  | 180.53 | 12013.96 | -143.12  | -1.31  | 0.00  | 0.00   | -143.11  |                                 |
| 5   | 12773.82 | 90.00 | 359.59 | 12500.00 | 334.25   | -4.87  | 12.00 | 179.06 | 334.28   |                                 |
| 6   | 22573.82 | 90.00 | 359.59 | 12500.00 | 10134.00 | -75.00 | 0.00  | 0.00   | 10134.28 | PBHL (Dogwood 23 Fed Com #709H) |

CASING DETAILS  
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                            | TVD      | +N/-S    | +E/-W  | Northing  | Easting   |
|---------------------------------|----------|----------|--------|-----------|-----------|
| FTP (Dogwood 23 Fed Com #709H)  | 12500.00 | 135.00   | -1.00  | 372844.00 | 784446.00 |
| PBHL (Dogwood 23 Fed Com #709H) | 12500.00 | 10134.00 | -75.00 | 382843.00 | 784372.00 |





## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)  
Dogwood 23 Fed Com  
#709H

OH

Plan: Plan #0.1

## **Standard Planning Report**

28 February, 2017

**HOBBS**  
OCT 03 2017  
**RECEIVED**



## EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Dogwood 23 Fed Com  
Well: #709H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
TVD Reference: KB = 25' @ 3312.00usft  
MD Reference: KB = 25' @ 3312.00usft  
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 Dogwood 23 Fed Com

Site Position: Northing: 372,741.00 usft Latitude: 32.02224139  
From: Map Easting: 788,311.00 usft Longitude: -103.53643286  
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.42 °

Well #709H

Well Position +N/-S -32.00 usft Northing: 372,709.00 usft Latitude: 32.02223115  
+E/-W -3,864.00 usft Easting: 784,447.00 usft Longitude: -103.54890043  
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,287.00 usft

Wellbore OH

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2015   | 2/23/2017   | 6.96               | 59.88            | 47,853                 |

Design Plan #0.1

## Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|-------------------|----------------------------|-----------------|-----------------|------------------|
|                   | 0.00                       | 0.00            | 0.00            | 359.58           |

## Plan Sections

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target             |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|--------------------|
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 4,000.00                    | 0.00               | 0.00           | 4,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 4,102.98                    | 1.03               | 180.53         | 4,102.98                    | -0.93           | -0.01           | 1.00                          | 1.00                         | 0.00                        | 180.53     |                    |
| 12,015.24                   | 1.03               | 180.53         | 12,013.96                   | -143.12         | -1.31           | 0.00                          | 0.00                         | 0.00                        | 0.00       |                    |
| 12,773.82                   | 90.00              | 359.59         | 12,500.00                   | 334.25          | -4.87           | 12.00                         | 11.73                        | 23.61                       | 179.06     |                    |
| 22,573.82                   | 90.00              | 359.59         | 12,500.00                   | 10,134.00       | -75.00          | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL (Dogwood 23 F |





# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Dogwood 23 Fed Com  
 Well: #709H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
 TVD Reference: KB = 25' @ 3312.00usft  
 MD Reference: KB = 25' @ 3312.00usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,102.98              | 1.03            | 180.53      | 4,102.98              | -0.93        | -0.01        | -0.93                   | 1.00                    | 1.00                   | 0.00                  |
| 4,200.00              | 1.03            | 180.53      | 4,199.98              | -2.67        | -0.02        | -2.67                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00              | 1.03            | 180.53      | 4,299.96              | -4.47        | -0.04        | -4.47                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00              | 1.03            | 180.53      | 4,399.95              | -6.26        | -0.06        | -6.26                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00              | 1.03            | 180.53      | 4,499.93              | -8.06        | -0.07        | -8.06                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00              | 1.03            | 180.53      | 4,599.91              | -9.86        | -0.09        | -9.86                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00              | 1.03            | 180.53      | 4,699.90              | -11.65       | -0.11        | -11.65                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00              | 1.03            | 180.53      | 4,799.88              | -13.45       | -0.12        | -13.45                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00              | 1.03            | 180.53      | 4,899.87              | -15.25       | -0.14        | -15.25                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00              | 1.03            | 180.53      | 4,999.85              | -17.05       | -0.16        | -17.04                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00              | 1.03            | 180.53      | 5,099.83              | -18.84       | -0.17        | -18.84                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00              | 1.03            | 180.53      | 5,199.82              | -20.64       | -0.19        | -20.64                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00              | 1.03            | 180.53      | 5,299.80              | -22.44       | -0.21        | -22.44                  | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Dogwood 23 Fed Com  
Well: #709H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
TVD Reference: KB = 25' @ 3312.00usft  
MD Reference: KB = 25' @ 3312.00usft  
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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,400.00              | 1.03            | 180.53      | 5,399.79              | -24.24       | -0.22        | -24.23                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00              | 1.03            | 180.53      | 5,499.77              | -26.03       | -0.24        | -26.03                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00              | 1.03            | 180.53      | 5,599.75              | -27.83       | -0.26        | -27.83                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00              | 1.03            | 180.53      | 5,699.74              | -29.63       | -0.27        | -29.62                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00              | 1.03            | 180.53      | 5,799.72              | -31.42       | -0.29        | -31.42                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00              | 1.03            | 180.53      | 5,899.70              | -33.22       | -0.31        | -33.22                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00              | 1.03            | 180.53      | 5,999.69              | -35.02       | -0.32        | -35.02                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00              | 1.03            | 180.53      | 6,099.67              | -36.82       | -0.34        | -36.81                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00              | 1.03            | 180.53      | 6,199.66              | -38.61       | -0.35        | -38.61                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00              | 1.03            | 180.53      | 6,299.64              | -40.41       | -0.37        | -40.41                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00              | 1.03            | 180.53      | 6,399.62              | -42.21       | -0.39        | -42.20                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00              | 1.03            | 180.53      | 6,499.61              | -44.00       | -0.40        | -44.00                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00              | 1.03            | 180.53      | 6,599.59              | -45.80       | -0.42        | -45.80                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00              | 1.03            | 180.53      | 6,699.58              | -47.60       | -0.44        | -47.59                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00              | 1.03            | 180.53      | 6,799.56              | -49.40       | -0.45        | -49.39                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00              | 1.03            | 180.53      | 6,899.54              | -51.19       | -0.47        | -51.19                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00              | 1.03            | 180.53      | 6,999.53              | -52.99       | -0.49        | -52.99                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00              | 1.03            | 180.53      | 7,099.51              | -54.79       | -0.50        | -54.78                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00              | 1.03            | 180.53      | 7,199.49              | -56.58       | -0.52        | -56.58                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00              | 1.03            | 180.53      | 7,299.48              | -58.38       | -0.54        | -58.38                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00              | 1.03            | 180.53      | 7,399.46              | -60.18       | -0.55        | -60.17                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00              | 1.03            | 180.53      | 7,499.45              | -61.98       | -0.57        | -61.97                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00              | 1.03            | 180.53      | 7,599.43              | -63.77       | -0.59        | -63.77                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00              | 1.03            | 180.53      | 7,699.41              | -65.57       | -0.60        | -65.56                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00              | 1.03            | 180.53      | 7,799.40              | -67.37       | -0.62        | -67.36                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00              | 1.03            | 180.53      | 7,899.38              | -69.16       | -0.64        | -69.16                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00              | 1.03            | 180.53      | 7,999.37              | -70.96       | -0.65        | -70.96                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00              | 1.03            | 180.53      | 8,099.35              | -72.76       | -0.67        | -72.75                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00              | 1.03            | 180.53      | 8,199.33              | -74.56       | -0.68        | -74.55                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00              | 1.03            | 180.53      | 8,299.32              | -76.35       | -0.70        | -76.35                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00              | 1.03            | 180.53      | 8,399.30              | -78.15       | -0.72        | -78.14                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00              | 1.03            | 180.53      | 8,499.28              | -79.95       | -0.73        | -79.94                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00              | 1.03            | 180.53      | 8,599.27              | -81.75       | -0.75        | -81.74                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00              | 1.03            | 180.53      | 8,699.25              | -83.54       | -0.77        | -83.53                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00              | 1.03            | 180.53      | 8,799.24              | -85.34       | -0.78        | -85.33                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00              | 1.03            | 180.53      | 8,899.22              | -87.14       | -0.80        | -87.13                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00              | 1.03            | 180.53      | 8,999.20              | -88.93       | -0.82        | -88.93                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00              | 1.03            | 180.53      | 9,099.19              | -90.73       | -0.83        | -90.72                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00              | 1.03            | 180.53      | 9,199.17              | -92.53       | -0.85        | -92.52                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00              | 1.03            | 180.53      | 9,299.16              | -94.33       | -0.87        | -94.32                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00              | 1.03            | 180.53      | 9,399.14              | -96.12       | -0.88        | -96.11                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00              | 1.03            | 180.53      | 9,499.12              | -97.92       | -0.90        | -97.91                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00              | 1.03            | 180.53      | 9,599.11              | -99.72       | -0.92        | -99.71                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00              | 1.03            | 180.53      | 9,699.09              | -101.51      | -0.93        | -101.50                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00              | 1.03            | 180.53      | 9,799.07              | -103.31      | -0.95        | -103.30                 | 0.00                    | 0.00                   | 0.00                  |
| 9,900.00              | 1.03            | 180.53      | 9,899.06              | -105.11      | -0.97        | -105.10                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00             | 1.03            | 180.53      | 9,999.04              | -106.91      | -0.98        | -106.90                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00             | 1.03            | 180.53      | 10,099.03             | -108.70      | -1.00        | -108.69                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00             | 1.03            | 180.53      | 10,199.01             | -110.50      | -1.01        | -110.49                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00             | 1.03            | 180.53      | 10,298.99             | -112.30      | -1.03        | -112.29                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00             | 1.03            | 180.53      | 10,398.98             | -114.09      | -1.05        | -114.08                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00             | 1.03            | 180.53      | 10,498.96             | -115.89      | -1.06        | -115.88                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.00             | 1.03            | 180.53      | 10,598.95             | -117.69      | -1.08        | -117.68                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.00             | 1.03            | 180.53      | 10,698.93             | -119.49      | -1.10        | -119.47                 | 0.00                    | 0.00                   | 0.00                  |





Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Dogwood 23 Fed Com  
 Well: #709H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
 TVD Reference: KB = 25' @ 3312.00usft  
 MD Reference: KB = 25' @ 3312.00usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured<br>Depth<br>(usft)           | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|---------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,800.00                             | 1.03               | 180.53         | 10,798.91                   | -121.28         | -1.11           | -121.27                       | 0.00                          | 0.00                         | 0.00                        |
| 10,900.00                             | 1.03               | 180.53         | 10,898.90                   | -123.08         | -1.13           | -123.07                       | 0.00                          | 0.00                         | 0.00                        |
| 11,000.00                             | 1.03               | 180.53         | 10,998.88                   | -124.88         | -1.15           | -124.87                       | 0.00                          | 0.00                         | 0.00                        |
| 11,100.00                             | 1.03               | 180.53         | 11,098.86                   | -126.68         | -1.16           | -126.66                       | 0.00                          | 0.00                         | 0.00                        |
| 11,200.00                             | 1.03               | 180.53         | 11,198.85                   | -128.47         | -1.18           | -128.46                       | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                             | 1.03               | 180.53         | 11,298.83                   | -130.27         | -1.20           | -130.26                       | 0.00                          | 0.00                         | 0.00                        |
| 11,400.00                             | 1.03               | 180.53         | 11,398.82                   | -132.07         | -1.21           | -132.05                       | 0.00                          | 0.00                         | 0.00                        |
| 11,500.00                             | 1.03               | 180.53         | 11,498.80                   | -133.86         | -1.23           | -133.85                       | 0.00                          | 0.00                         | 0.00                        |
| 11,600.00                             | 1.03               | 180.53         | 11,598.78                   | -135.66         | -1.25           | -135.65                       | 0.00                          | 0.00                         | 0.00                        |
| 11,700.00                             | 1.03               | 180.53         | 11,698.77                   | -137.46         | -1.26           | -137.45                       | 0.00                          | 0.00                         | 0.00                        |
| 11,800.00                             | 1.03               | 180.53         | 11,798.75                   | -139.26         | -1.28           | -139.24                       | 0.00                          | 0.00                         | 0.00                        |
| 11,900.00                             | 1.03               | 180.53         | 11,898.74                   | -141.05         | -1.30           | -141.04                       | 0.00                          | 0.00                         | 0.00                        |
| 12,000.00                             | 1.03               | 180.53         | 11,998.72                   | -142.85         | -1.31           | -142.84                       | 0.00                          | 0.00                         | 0.00                        |
| 12,015.24                             | 1.03               | 180.53         | 12,013.96                   | -143.12         | -1.31           | -143.11                       | 0.00                          | 0.00                         | 0.00                        |
| 12,025.00                             | 0.14               | 352.82         | 12,023.72                   | -143.20         | -1.32           | -143.19                       | 12.00                         | -9.09                        | 1,765.02                    |
| 12,050.00                             | 3.14               | 359.28         | 12,048.70                   | -142.48         | -1.33           | -142.47                       | 12.00                         | 12.00                        | 25.86                       |
| 12,075.00                             | 6.14               | 359.43         | 12,073.62                   | -140.46         | -1.35           | -140.45                       | 12.00                         | 12.00                        | 0.60                        |
| 12,100.00                             | 9.14               | 359.49         | 12,098.39                   | -137.14         | -1.38           | -137.12                       | 12.00                         | 12.00                        | 0.21                        |
| 12,125.00                             | 12.14              | 359.51         | 12,122.96                   | -132.52         | -1.42           | -132.51                       | 12.00                         | 12.00                        | 0.11                        |
| 12,150.00                             | 15.14              | 359.53         | 12,147.25                   | -126.63         | -1.47           | -126.61                       | 12.00                         | 12.00                        | 0.06                        |
| 12,175.00                             | 18.14              | 359.54         | 12,171.20                   | -119.47         | -1.53           | -119.45                       | 12.00                         | 12.00                        | 0.04                        |
| 12,200.00                             | 21.14              | 359.55         | 12,194.75                   | -111.06         | -1.60           | -111.05                       | 12.00                         | 12.00                        | 0.03                        |
| 12,225.00                             | 24.14              | 359.55         | 12,217.82                   | -101.44         | -1.67           | -101.43                       | 12.00                         | 12.00                        | 0.02                        |
| 12,250.00                             | 27.14              | 359.56         | 12,240.35                   | -90.62          | -1.76           | -90.61                        | 12.00                         | 12.00                        | 0.02                        |
| 12,275.00                             | 30.14              | 359.56         | 12,262.29                   | -78.64          | -1.85           | -78.63                        | 12.00                         | 12.00                        | 0.02                        |
| 12,300.00                             | 33.14              | 359.56         | 12,283.57                   | -65.53          | -1.95           | -65.51                        | 12.00                         | 12.00                        | 0.01                        |
| 12,325.00                             | 36.14              | 359.57         | 12,304.14                   | -51.32          | -2.06           | -51.30                        | 12.00                         | 12.00                        | 0.01                        |
| 12,350.00                             | 39.14              | 359.57         | 12,323.93                   | -36.05          | -2.17           | -36.04                        | 12.00                         | 12.00                        | 0.01                        |
| 12,375.00                             | 42.14              | 359.57         | 12,342.90                   | -19.77          | -2.29           | -19.76                        | 12.00                         | 12.00                        | 0.01                        |
| 12,400.00                             | 45.14              | 359.57         | 12,360.99                   | -2.52           | -2.42           | -2.50                         | 12.00                         | 12.00                        | 0.01                        |
| 12,425.00                             | 48.14              | 359.57         | 12,378.15                   | 15.65           | -2.56           | 15.67                         | 12.00                         | 12.00                        | 0.01                        |
| 12,450.00                             | 51.14              | 359.58         | 12,394.34                   | 34.70           | -2.70           | 34.72                         | 12.00                         | 12.00                        | 0.01                        |
| 12,475.00                             | 54.14              | 359.58         | 12,409.51                   | 54.57           | -2.85           | 54.59                         | 12.00                         | 12.00                        | 0.01                        |
| 12,500.00                             | 57.14              | 359.58         | 12,423.61                   | 75.20           | -3.00           | 75.22                         | 12.00                         | 12.00                        | 0.01                        |
| 12,525.00                             | 60.14              | 359.58         | 12,436.62                   | 96.55           | -3.15           | 96.57                         | 12.00                         | 12.00                        | 0.00                        |
| 12,550.00                             | 63.14              | 359.58         | 12,448.49                   | 118.54          | -3.31           | 118.57                        | 12.00                         | 12.00                        | 0.00                        |
| 12,575.00                             | 66.14              | 359.58         | 12,459.20                   | 141.13          | -3.48           | 141.15                        | 12.00                         | 12.00                        | 0.00                        |
| 12,584.83                             | 67.32              | 359.58         | 12,463.08                   | 150.17          | -3.55           | 150.19                        | 12.00                         | 12.00                        | 0.00                        |
| <b>FTP (Dogwood 23 Fed Com #709H)</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 12,600.00                             | 69.14              | 359.58         | 12,468.71                   | 164.25          | -3.65           | 164.27                        | 12.00                         | 12.00                        | 0.00                        |
| 12,625.00                             | 72.14              | 359.58         | 12,476.99                   | 187.83          | -3.82           | 187.86                        | 12.00                         | 12.00                        | 0.00                        |
| 12,650.00                             | 75.14              | 359.59         | 12,484.04                   | 211.82          | -3.99           | 211.84                        | 12.00                         | 12.00                        | 0.00                        |
| 12,675.00                             | 78.14              | 359.59         | 12,489.81                   | 236.14          | -4.17           | 236.16                        | 12.00                         | 12.00                        | 0.00                        |
| 12,700.00                             | 81.14              | 359.59         | 12,494.31                   | 260.73          | -4.35           | 260.75                        | 12.00                         | 12.00                        | 0.00                        |
| 12,725.00                             | 84.14              | 359.59         | 12,497.51                   | 285.52          | -4.52           | 285.54                        | 12.00                         | 12.00                        | 0.00                        |
| 12,750.00                             | 87.14              | 359.59         | 12,499.41                   | 310.44          | -4.70           | 310.47                        | 12.00                         | 12.00                        | 0.00                        |
| 12,773.82                             | 90.00              | 359.59         | 12,500.00                   | 334.25          | -4.87           | 334.28                        | 12.00                         | 12.00                        | 0.00                        |
| 12,800.00                             | 90.00              | 359.59         | 12,500.00                   | 360.43          | -5.06           | 360.46                        | 0.00                          | 0.00                         | 0.00                        |
| 12,900.00                             | 90.00              | 359.59         | 12,500.00                   | 460.43          | -5.78           | 460.46                        | 0.00                          | 0.00                         | 0.00                        |
| 13,000.00                             | 90.00              | 359.59         | 12,500.00                   | 560.43          | -6.49           | 560.46                        | 0.00                          | 0.00                         | 0.00                        |
| 13,100.00                             | 90.00              | 359.59         | 12,500.00                   | 660.42          | -7.21           | 660.46                        | 0.00                          | 0.00                         | 0.00                        |
| 13,200.00                             | 90.00              | 359.59         | 12,500.00                   | 760.42          | -7.92           | 760.46                        | 0.00                          | 0.00                         | 0.00                        |
| 13,300.00                             | 90.00              | 359.59         | 12,500.00                   | 860.42          | -8.64           | 860.46                        | 0.00                          | 0.00                         | 0.00                        |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Dogwood 23 Fed Com  
Well: #709H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
TVD Reference: KB = 25' @ 3312.00usft  
MD Reference: KB = 25' @ 3312.00usft  
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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,400.00             | 90.00           | 359.59      | 12,500.00             | 960.42       | -9.35        | 960.46                  | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00             | 90.00           | 359.59      | 12,500.00             | 1,060.41     | -10.07       | 1,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00             | 90.00           | 359.59      | 12,500.00             | 1,160.41     | -10.79       | 1,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00             | 90.00           | 359.59      | 12,500.00             | 1,260.41     | -11.50       | 1,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00             | 90.00           | 359.59      | 12,500.00             | 1,360.41     | -12.22       | 1,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00             | 90.00           | 359.59      | 12,500.00             | 1,460.40     | -12.93       | 1,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00             | 90.00           | 359.59      | 12,500.00             | 1,560.40     | -13.65       | 1,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00             | 90.00           | 359.59      | 12,500.00             | 1,660.40     | -14.36       | 1,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00             | 90.00           | 359.59      | 12,500.00             | 1,760.40     | -15.08       | 1,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00             | 90.00           | 359.59      | 12,500.00             | 1,860.39     | -15.79       | 1,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00             | 90.00           | 359.59      | 12,500.00             | 1,960.39     | -16.51       | 1,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00             | 90.00           | 359.59      | 12,500.00             | 2,060.39     | -17.23       | 2,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00             | 90.00           | 359.59      | 12,500.00             | 2,160.39     | -17.94       | 2,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 90.00           | 359.59      | 12,500.00             | 2,260.38     | -18.66       | 2,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.00           | 359.59      | 12,500.00             | 2,360.38     | -19.37       | 2,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.00           | 359.59      | 12,500.00             | 2,460.38     | -20.09       | 2,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.00           | 359.59      | 12,500.00             | 2,560.37     | -20.80       | 2,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.00           | 359.59      | 12,500.00             | 2,660.37     | -21.52       | 2,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.00           | 359.59      | 12,500.00             | 2,760.37     | -22.23       | 2,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.00           | 359.59      | 12,500.00             | 2,860.37     | -22.95       | 2,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.00           | 359.59      | 12,500.00             | 2,960.36     | -23.67       | 2,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00             | 90.00           | 359.59      | 12,500.00             | 3,060.36     | -24.38       | 3,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00             | 90.00           | 359.59      | 12,500.00             | 3,160.36     | -25.10       | 3,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00             | 90.00           | 359.59      | 12,500.00             | 3,260.36     | -25.81       | 3,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00             | 90.00           | 359.59      | 12,500.00             | 3,360.35     | -26.53       | 3,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00             | 90.00           | 359.59      | 12,500.00             | 3,460.35     | -27.24       | 3,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00             | 90.00           | 359.59      | 12,500.00             | 3,560.35     | -27.96       | 3,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00             | 90.00           | 359.59      | 12,500.00             | 3,660.35     | -28.67       | 3,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00             | 90.00           | 359.59      | 12,500.00             | 3,760.34     | -29.39       | 3,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00             | 90.00           | 359.59      | 12,500.00             | 3,860.34     | -30.11       | 3,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00             | 90.00           | 359.59      | 12,500.00             | 3,960.34     | -30.82       | 3,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00             | 90.00           | 359.59      | 12,500.00             | 4,060.34     | -31.54       | 4,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00             | 90.00           | 359.59      | 12,500.00             | 4,160.33     | -32.25       | 4,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00             | 90.00           | 359.59      | 12,500.00             | 4,260.33     | -32.97       | 4,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00             | 90.00           | 359.59      | 12,500.00             | 4,360.33     | -33.68       | 4,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.00           | 359.59      | 12,500.00             | 4,460.33     | -34.40       | 4,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.00           | 359.59      | 12,500.00             | 4,560.32     | -35.11       | 4,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.00           | 359.59      | 12,500.00             | 4,660.32     | -35.83       | 4,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00             | 90.00           | 359.59      | 12,500.00             | 4,760.32     | -36.55       | 4,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00             | 90.00           | 359.59      | 12,500.00             | 4,860.32     | -37.26       | 4,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00             | 90.00           | 359.59      | 12,500.00             | 4,960.31     | -37.98       | 4,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00             | 90.00           | 359.59      | 12,500.00             | 5,060.31     | -38.69       | 5,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00             | 90.00           | 359.59      | 12,500.00             | 5,160.31     | -39.41       | 5,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00             | 90.00           | 359.59      | 12,500.00             | 5,260.31     | -40.12       | 5,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00             | 90.00           | 359.59      | 12,500.00             | 5,360.30     | -40.84       | 5,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00             | 90.00           | 359.59      | 12,500.00             | 5,460.30     | -41.56       | 5,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,000.00             | 90.00           | 359.59      | 12,500.00             | 5,560.30     | -42.27       | 5,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,100.00             | 90.00           | 359.59      | 12,500.00             | 5,660.30     | -42.99       | 5,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,200.00             | 90.00           | 359.59      | 12,500.00             | 5,760.29     | -43.70       | 5,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,300.00             | 90.00           | 359.59      | 12,500.00             | 5,860.29     | -44.42       | 5,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,400.00             | 90.00           | 359.59      | 12,500.00             | 5,960.29     | -45.13       | 5,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.00             | 90.00           | 359.59      | 12,500.00             | 6,060.29     | -45.85       | 6,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.00             | 90.00           | 359.59      | 12,500.00             | 6,160.28     | -46.56       | 6,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.00             | 90.00           | 359.59      | 12,500.00             | 6,260.28     | -47.28       | 6,260.46                | 0.00                    | 0.00                   | 0.00                  |





# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Dogwood 23 Fed Com  
 Well: #709H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
 TVD Reference: KB = 25' @ 3312.00usft  
 MD Reference: KB = 25' @ 3312.00usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 18,800.00             | 90.00           | 359.59      | 12,500.00             | 6,360.28     | -48.00       | 6,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.00             | 90.00           | 359.59      | 12,500.00             | 6,460.28     | -48.71       | 6,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.00             | 90.00           | 359.59      | 12,500.00             | 6,560.27     | -49.43       | 6,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,100.00             | 90.00           | 359.59      | 12,500.00             | 6,660.27     | -50.14       | 6,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,200.00             | 90.00           | 359.59      | 12,500.00             | 6,760.27     | -50.86       | 6,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00             | 90.00           | 359.59      | 12,500.00             | 6,860.26     | -51.57       | 6,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,400.00             | 90.00           | 359.59      | 12,500.00             | 6,960.26     | -52.29       | 6,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,500.00             | 90.00           | 359.59      | 12,500.00             | 7,060.26     | -53.00       | 7,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,600.00             | 90.00           | 359.59      | 12,500.00             | 7,160.26     | -53.72       | 7,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,700.00             | 90.00           | 359.59      | 12,500.00             | 7,260.25     | -54.44       | 7,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,800.00             | 90.00           | 359.59      | 12,500.00             | 7,360.25     | -55.15       | 7,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 19,900.00             | 90.00           | 359.59      | 12,500.00             | 7,460.25     | -55.87       | 7,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,000.00             | 90.00           | 359.59      | 12,500.00             | 7,560.25     | -56.58       | 7,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,100.00             | 90.00           | 359.59      | 12,500.00             | 7,660.24     | -57.30       | 7,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,200.00             | 90.00           | 359.59      | 12,500.00             | 7,760.24     | -58.01       | 7,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,300.00             | 90.00           | 359.59      | 12,500.00             | 7,860.24     | -58.73       | 7,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,400.00             | 90.00           | 359.59      | 12,500.00             | 7,960.24     | -59.44       | 7,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,500.00             | 90.00           | 359.59      | 12,500.00             | 8,060.23     | -60.16       | 8,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,600.00             | 90.00           | 359.59      | 12,500.00             | 8,160.23     | -60.88       | 8,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,700.00             | 90.00           | 359.59      | 12,500.00             | 8,260.23     | -61.59       | 8,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,800.00             | 90.00           | 359.59      | 12,500.00             | 8,360.23     | -62.31       | 8,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 20,900.00             | 90.00           | 359.59      | 12,500.00             | 8,460.22     | -63.02       | 8,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,000.00             | 90.00           | 359.59      | 12,500.00             | 8,560.22     | -63.74       | 8,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,100.00             | 90.00           | 359.59      | 12,500.00             | 8,660.22     | -64.45       | 8,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,200.00             | 90.00           | 359.59      | 12,500.00             | 8,760.22     | -65.17       | 8,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,300.00             | 90.00           | 359.59      | 12,500.00             | 8,860.21     | -65.88       | 8,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,400.00             | 90.00           | 359.59      | 12,500.00             | 8,960.21     | -66.60       | 8,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,500.00             | 90.00           | 359.59      | 12,500.00             | 9,060.21     | -67.32       | 9,060.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,600.00             | 90.00           | 359.59      | 12,500.00             | 9,160.21     | -68.03       | 9,160.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,700.00             | 90.00           | 359.59      | 12,500.00             | 9,260.20     | -68.75       | 9,260.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,800.00             | 90.00           | 359.59      | 12,500.00             | 9,360.20     | -69.46       | 9,360.46                | 0.00                    | 0.00                   | 0.00                  |
| 21,900.00             | 90.00           | 359.59      | 12,500.00             | 9,460.20     | -70.18       | 9,460.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,000.00             | 90.00           | 359.59      | 12,500.00             | 9,560.20     | -70.89       | 9,560.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,100.00             | 90.00           | 359.59      | 12,500.00             | 9,660.19     | -71.61       | 9,660.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,200.00             | 90.00           | 359.59      | 12,500.00             | 9,760.19     | -72.33       | 9,760.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,300.00             | 90.00           | 359.59      | 12,500.00             | 9,860.19     | -73.04       | 9,860.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,400.00             | 90.00           | 359.59      | 12,500.00             | 9,960.19     | -73.76       | 9,960.46                | 0.00                    | 0.00                   | 0.00                  |
| 22,500.00             | 90.00           | 359.59      | 12,500.00             | 10,060.18    | -74.47       | 10,060.46               | 0.00                    | 0.00                   | 0.00                  |
| 22,573.82             | 90.00           | 359.59      | 12,500.00             | 10,134.00    | -75.00       | 10,134.28               | 0.00                    | 0.00                   | 0.00                  |

PBHL (Dogwood 23 Fed Com #709H)





Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Dogwood 23 Fed Com  
Well: #709H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H  
TVD Reference: KB = 25' @ 3312.00usft  
MD Reference: KB = 25' @ 3312.00usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                       | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude    | Longitude     |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-------------|---------------|
| PBHL (Dogwood 23 Fed<br>- plan hits target center<br>- Point                                                                      | 0.00             | 0.00            | 12,500.00     | 10,134.00       | -75.00          | 382,843.00         | 784,372.00        | 32.05008828 | -103.54890494 |
| FTP (Dogwood 23 Fed C<br>- plan misses target center by 39.99usft at 12584.83usft MD (12463.08 TVD, 150.17 N, -3.55 E)<br>- Point | 0.00             | 0.00            | 12,500.00     | 135.00          | -1.00           | 372,844.00         | 784,446.00        | 32.02260225 | -103.54890049 |