

### Plan #0.1

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

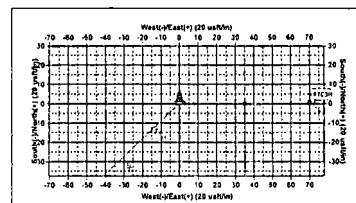
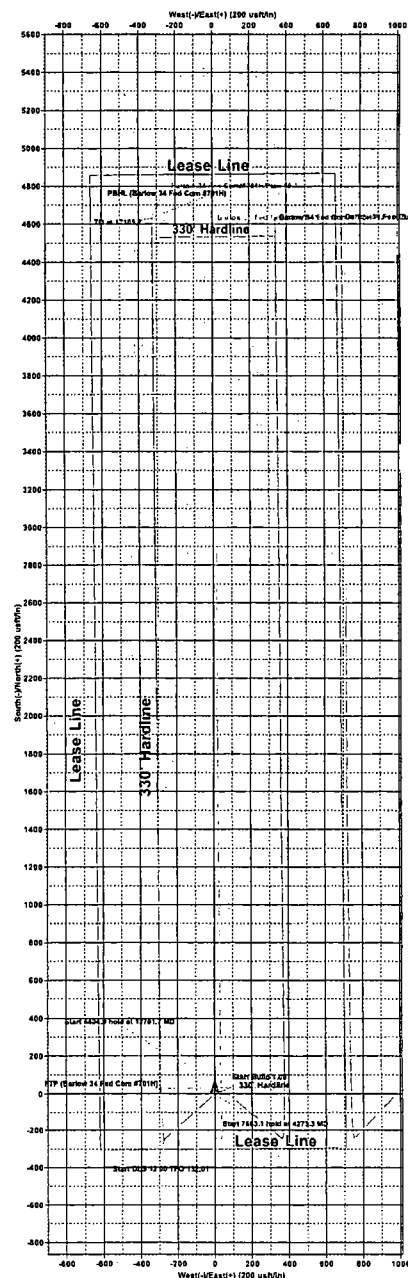
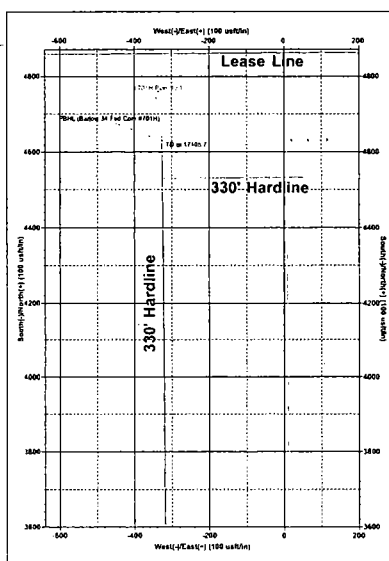
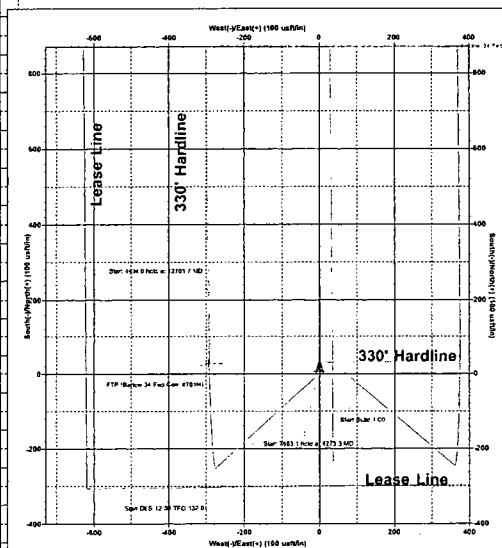
Ground Level: 3261.0  
KB = 25' @ 3286.0ush

| Northing  | Easting   | Latitude       | Longitude        |
|-----------|-----------|----------------|------------------|
| 364974.00 | 778981.00 | 32° 0' 3.879 N | 103° 34' 0.167 W |

| SECTION DETAILS |         |       |        |         |        |        |       |        |        |                                |            |
|-----------------|---------|-------|--------|---------|--------|--------|-------|--------|--------|--------------------------------|------------|
| Sec             | MD      | Inc   | Azi    | TVD     | +N/S   | +E/W   | Dleg  | T Face | VSet   | Target                         | Annotation |
| 1               | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                                |            |
| 2               | 4000.0  | 0.00  | 0.00   | 4000.0  | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                                |            |
| 3               | 4273.3  | 2.73  | 227.56 | 4273.2  | -4.4   | -4.6   | 1.00  | 227.56 | -4.0   |                                |            |
| 4               | 11936.4 | 2.73  | 227.56 | 11927.6 | -251.0 | -274.5 | 0.00  | 0.00   | 0.00   |                                |            |
| 5               | 12701.7 | 90.00 | 359.60 | 12420.0 | 726.1  | -395.3 | 12.00 | 137.01 | 0.00   |                                |            |
| 6               | 12105.7 | 90.00 | 359.60 | 12420.0 | 4632.0 | -326.0 | 0.00  | 0.00   | 4641.5 | PEBL (Barlow 34 Fed Com #701H) |            |

No casing data is available

| Name                           | TVD     | +N-S   | +E-W   | Northing  | Easting   |
|--------------------------------|---------|--------|--------|-----------|-----------|
| PBHL (Barlow 34 Fed Com #701H) | 12420.0 | 4630.0 | -326.0 | 369604.00 | 778655.00 |
| FTP (Barlow 34 Fed Com #701H)  | 12420.0 | 28.0   | -295.0 | 365002.00 | 778686.00 |



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## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#701H

OH

Plan: Plan #0.1

## **Standard Planning Report**

09 March, 2017

**HOBBS OCD**

**OCT 30 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: Barlow 34 Fed Com  
Well: #701H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
TVD Reference: KB = 25' @ 3286.0usft  
MD Reference: KB = 25' @ 3286.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983  
Geo Datum: North American Datum 1983  
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Barlow 34 Fed Com

Site Position: Northing: 364,974.00 usft Latitude: 32° 0' 3.879 N  
From: Map Easting: 778,981.00 usft Longitude: 103° 34' 0.167 W  
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.41°

Well: #701H

Well Position: +N/-S 0.0 usft Northing: 364,974.00 usft Latitude: 32° 0' 3.879 N  
+E/-W 0.0 usft Easting: 778,981.00 usft Longitude: 103° 34' 0.167 W  
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,261.0 usft

Wellbore: OH

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2015   | 3/9/2017    | 6.97               | 59.86            | 47,835                 |

Design: Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|-------------------|----------------------------|-----------------|-----------------|------------------|
|                   | 0.0                        | 0.0             | 0.0             | 355.97           |

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                   |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|--------------------------|
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                          |
| 4,000.0                     | 0.00               | 0.00           | 4,000.0                     | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                          |
| 4,273.3                     | 2.73               | 227.56         | 4,273.2                     | -4.4            | -4.8            | 1.00                          | 1.00                         | 0.00                        | 227.56     |                          |
| 11,936.4                    | 2.73               | 227.56         | 11,927.6                    | -251.0          | -274.5          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                          |
| 12,701.7                    | 90.00              | 359.60         | 12,420.0                    | 226.1           | -295.3          | 12.00                         | 11.40                        | 17.25                       | 132.01     |                          |
| 17,105.7                    | 90.00              | 359.60         | 12,420.0                    | 4,630.0         | -326.0          | 0.00                          | 0.00                         | 0.00                        | 0.00       | 0.00 PBHL (Barlow 34 Fed |



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## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Barlow 34 Fed Com  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25' @ 3286.0usft  
 MD Reference: KB = 25' @ 3286.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 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               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 1.00            | 227.56      | 4,100.0               | -0.6         | -0.6         | -0.5                    | 1.00                    | 1.00                   | 0.00                  |
| 4,200.0               | 2.00            | 227.56      | 4,200.0               | -2.4         | -2.6         | -2.2                    | 1.00                    | 1.00                   | 0.00                  |
| 4,273.3               | 2.73            | 227.56      | 4,273.2               | -4.4         | -4.8         | -4.0                    | 1.00                    | 1.00                   | 0.00                  |
| 4,300.0               | 2.73            | 227.56      | 4,299.9               | -5.3         | -5.7         | -4.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 2.73            | 227.56      | 4,399.8               | -8.5         | -9.3         | -7.8                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 2.73            | 227.56      | 4,499.6               | -11.7        | -12.8        | -10.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 2.73            | 227.56      | 4,599.5               | -14.9        | -16.3        | -13.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 2.73            | 227.56      | 4,699.4               | -18.1        | -19.8        | -16.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 2.73            | 227.56      | 4,799.3               | -21.3        | -23.3        | -19.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 2.73            | 227.56      | 4,899.2               | -24.6        | -26.9        | -22.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 2.73            | 227.56      | 4,999.1               | -27.8        | -30.4        | -25.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 2.73            | 227.56      | 5,099.0               | -31.0        | -33.9        | -28.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 2.73            | 227.56      | 5,198.8               | -34.2        | -37.4        | -31.5                   | 0.00                    | 0.00                   | 0.00                  |



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## Planning Report

Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Barlow 34 Fed Com  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25' @ 3286.0usft  
 MD Reference: KB = 25' @ 3286.0usft  
 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               | 2.73            | 227.56      | 5,298.7               | -37.4        | -40.9        | -34.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 2.73            | 227.56      | 5,398.6               | -40.7        | -44.5        | -37.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 2.73            | 227.56      | 5,498.5               | -43.9        | -48.0        | -40.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 2.73            | 227.56      | 5,598.4               | -47.1        | -51.5        | -43.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 2.73            | 227.56      | 5,698.3               | -50.3        | -55.0        | -46.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 2.73            | 227.56      | 5,798.2               | -53.5        | -58.5        | -49.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 2.73            | 227.56      | 5,898.0               | -56.7        | -62.1        | -52.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 2.73            | 227.56      | 5,997.9               | -60.0        | -65.6        | -55.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 2.73            | 227.56      | 6,097.8               | -63.2        | -69.1        | -58.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 2.73            | 227.56      | 6,197.7               | -66.4        | -72.6        | -61.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 2.73            | 227.56      | 6,297.6               | -69.6        | -76.1        | -64.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 2.73            | 227.56      | 6,397.5               | -72.8        | -79.6        | -67.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 2.73            | 227.56      | 6,497.4               | -76.0        | -83.2        | -70.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 2.73            | 227.56      | 6,597.2               | -79.3        | -86.7        | -73.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 2.73            | 227.56      | 6,697.1               | -82.5        | -90.2        | -75.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 2.73            | 227.56      | 6,797.0               | -85.7        | -93.7        | -78.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 2.73            | 227.56      | 6,896.9               | -88.9        | -97.2        | -81.9                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 2.73            | 227.56      | 6,996.8               | -92.1        | -100.8       | -84.8                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 2.73            | 227.56      | 7,096.7               | -95.4        | -104.3       | -87.8                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 2.73            | 227.56      | 7,196.6               | -98.6        | -107.8       | -90.8                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 2.73            | 227.56      | 7,296.5               | -101.8       | -111.3       | -93.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 2.73            | 227.56      | 7,396.3               | -105.0       | -114.8       | -96.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 2.73            | 227.56      | 7,496.2               | -108.2       | -118.4       | -99.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 2.73            | 227.56      | 7,596.1               | -111.4       | -121.9       | -102.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 2.73            | 227.56      | 7,696.0               | -114.7       | -125.4       | -105.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 2.73            | 227.56      | 7,795.9               | -117.9       | -128.9       | -108.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 2.73            | 227.56      | 7,895.8               | -121.1       | -132.4       | -111.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 2.73            | 227.56      | 7,995.7               | -124.3       | -135.9       | -114.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 2.73            | 227.56      | 8,095.5               | -127.5       | -139.5       | -117.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 2.73            | 227.56      | 8,195.4               | -130.8       | -143.0       | -120.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 2.73            | 227.56      | 8,295.3               | -134.0       | -146.5       | -123.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 2.73            | 227.56      | 8,395.2               | -137.2       | -150.0       | -126.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 2.73            | 227.56      | 8,495.1               | -140.4       | -153.5       | -129.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 2.73            | 227.56      | 8,595.0               | -143.6       | -157.1       | -132.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 2.73            | 227.56      | 8,694.9               | -146.8       | -160.6       | -135.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 2.73            | 227.56      | 8,794.7               | -150.1       | -164.1       | -138.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 2.73            | 227.56      | 8,894.6               | -153.3       | -167.6       | -141.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 2.73            | 227.56      | 8,994.5               | -156.5       | -171.1       | -144.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 2.73            | 227.56      | 9,094.4               | -159.7       | -174.7       | -147.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 2.73            | 227.56      | 9,194.3               | -162.9       | -178.2       | -150.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 2.73            | 227.56      | 9,294.2               | -166.1       | -181.7       | -153.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 2.73            | 227.56      | 9,394.1               | -169.4       | -185.2       | -155.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 2.73            | 227.56      | 9,494.0               | -172.6       | -188.7       | -158.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 2.73            | 227.56      | 9,593.8               | -175.8       | -192.3       | -161.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 2.73            | 227.56      | 9,693.7               | -179.0       | -195.8       | -164.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 2.73            | 227.56      | 9,793.6               | -182.2       | -199.3       | -167.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 2.73            | 227.56      | 9,893.5               | -185.5       | -202.8       | -170.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 2.73            | 227.56      | 9,993.4               | -188.7       | -206.3       | -173.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 2.73            | 227.56      | 10,093.3              | -191.9       | -209.8       | -176.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 2.73            | 227.56      | 10,193.2              | -195.1       | -213.4       | -179.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 2.73            | 227.56      | 10,293.0              | -198.3       | -216.9       | -182.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 2.73            | 227.56      | 10,392.9              | -201.5       | -220.4       | -185.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 2.73            | 227.56      | 10,492.8              | -204.8       | -223.9       | -188.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 2.73            | 227.56      | 10,592.7              | -208.0       | -227.4       | -191.5                  | 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: Barlow 34 Fed Com  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25' @ 3286.0usft  
 MD Reference: KB = 25' @ 3286.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,700.0              | 2.73            | 227.56      | 10,692.6              | -211.2       | -231.0       | -194.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0              | 2.73            | 227.56      | 10,792.5              | -214.4       | -234.5       | -197.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0              | 2.73            | 227.56      | 10,892.4              | -217.6       | -238.0       | -200.4                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0              | 2.73            | 227.56      | 10,992.2              | -220.8       | -241.5       | -203.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0              | 2.73            | 227.56      | 11,092.1              | -224.1       | -245.0       | -206.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0              | 2.73            | 227.56      | 11,192.0              | -227.3       | -248.6       | -209.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0              | 2.73            | 227.56      | 11,291.9              | -230.5       | -252.1       | -212.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0              | 2.73            | 227.56      | 11,391.8              | -233.7       | -255.6       | -215.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0              | 2.73            | 227.56      | 11,491.7              | -236.9       | -259.1       | -218.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0              | 2.73            | 227.56      | 11,591.6              | -240.2       | -262.6       | -221.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 2.73            | 227.56      | 11,691.4              | -243.4       | -266.1       | -224.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 2.73            | 227.56      | 11,791.3              | -246.6       | -269.7       | -227.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 2.73            | 227.56      | 11,891.2              | -249.8       | -273.2       | -230.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,936.4              | 2.73            | 227.56      | 11,927.6              | -251.0       | -274.5       | -231.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,950.0              | 2.04            | 263.97      | 11,941.2              | -251.2       | -274.9       | -231.3                  | 12.00                   | -5.10                  | 268.10                |
| 11,975.0              | 3.46            | 323.68      | 11,966.1              | -250.7       | -275.8       | -230.7                  | 12.00                   | 5.67                   | 238.83                |
| 12,000.0              | 6.14            | 340.37      | 11,991.1              | -248.8       | -276.7       | -228.7                  | 12.00                   | 10.74                  | 66.77                 |
| 12,025.0              | 9.03            | 346.71      | 12,015.8              | -245.6       | -277.6       | -225.5                  | 12.00                   | 11.54                  | 25.35                 |
| 12,050.0              | 11.97           | 349.97      | 12,040.4              | -241.2       | -278.5       | -221.0                  | 12.00                   | 11.77                  | 13.06                 |
| 12,075.0              | 14.94           | 351.96      | 12,064.7              | -235.4       | -279.4       | -215.2                  | 12.00                   | 11.86                  | 7.95                  |
| 12,100.0              | 17.91           | 353.30      | 12,088.7              | -228.4       | -280.3       | -208.2                  | 12.00                   | 11.90                  | 5.36                  |
| 12,125.0              | 20.89           | 354.27      | 12,112.3              | -220.2       | -281.2       | -199.9                  | 12.00                   | 11.93                  | 3.87                  |
| 12,150.0              | 23.88           | 355.01      | 12,135.4              | -210.7       | -282.1       | -190.3                  | 12.00                   | 11.95                  | 2.94                  |
| 12,175.0              | 26.87           | 355.59      | 12,158.0              | -200.0       | -283.0       | -179.6                  | 12.00                   | 11.96                  | 2.32                  |
| 12,200.0              | 29.86           | 356.06      | 12,180.0              | -188.2       | -283.9       | -167.7                  | 12.00                   | 11.97                  | 1.89                  |
| 12,225.0              | 32.86           | 356.45      | 12,201.3              | -175.2       | -284.7       | -154.7                  | 12.00                   | 11.97                  | 1.57                  |
| 12,250.0              | 35.85           | 356.79      | 12,222.0              | -161.1       | -285.5       | -140.6                  | 12.00                   | 11.98                  | 1.34                  |
| 12,275.0              | 38.84           | 357.08      | 12,241.8              | -145.9       | -286.3       | -125.5                  | 12.00                   | 11.98                  | 1.16                  |
| 12,300.0              | 41.84           | 357.33      | 12,260.9              | -129.8       | -287.1       | -109.3                  | 12.00                   | 11.98                  | 1.02                  |
| 12,325.0              | 44.84           | 357.56      | 12,279.1              | -112.6       | -287.9       | -92.1                   | 12.00                   | 11.98                  | 0.90                  |
| 12,350.0              | 47.83           | 357.76      | 12,296.3              | -94.6        | -288.6       | -74.1                   | 12.00                   | 11.99                  | 0.81                  |
| 12,375.0              | 50.83           | 357.94      | 12,312.6              | -75.6        | -289.3       | -55.1                   | 12.00                   | 11.99                  | 0.74                  |
| 12,400.0              | 53.83           | 358.11      | 12,327.9              | -55.9        | -290.0       | -35.3                   | 12.00                   | 11.99                  | 0.68                  |
| 12,425.0              | 56.82           | 358.27      | 12,342.1              | -35.3        | -290.7       | -14.8                   | 12.00                   | 11.99                  | 0.63                  |
| 12,450.0              | 59.82           | 358.42      | 12,355.2              | -14.0        | -291.3       | 6.4                     | 12.00                   | 11.99                  | 0.59                  |
| 12,475.0              | 62.82           | 358.56      | 12,367.2              | 7.9          | -291.9       | 28.4                    | 12.00                   | 11.99                  | 0.55                  |
| 12,500.0              | 65.82           | 358.69      | 12,378.1              | 30.4         | -292.4       | 50.9                    | 12.00                   | 11.99                  | 0.52                  |
| 12,525.0              | 68.81           | 358.81      | 12,387.7              | 53.5         | -292.9       | 73.9                    | 12.00                   | 11.99                  | 0.50                  |
| 12,550.0              | 71.81           | 358.93      | 12,396.1              | 77.0         | -293.4       | 97.4                    | 12.00                   | 11.99                  | 0.48                  |
| 12,575.0              | 74.81           | 359.05      | 12,403.3              | 100.9        | -293.8       | 121.3                   | 12.00                   | 11.99                  | 0.46                  |
| 12,600.0              | 77.81           | 359.16      | 12,409.2              | 125.2        | -294.2       | 145.6                   | 12.00                   | 11.99                  | 0.45                  |
| 12,625.0              | 80.81           | 359.27      | 12,413.9              | 149.8        | -294.5       | 170.1                   | 12.00                   | 11.99                  | 0.44                  |
| 12,650.0              | 83.80           | 359.38      | 12,417.2              | 174.5        | -294.8       | 194.8                   | 12.00                   | 11.99                  | 0.43                  |
| 12,675.0              | 86.80           | 359.49      | 12,419.3              | 199.5        | -295.0       | 219.7                   | 12.00                   | 11.99                  | 0.43                  |
| 12,701.7              | 90.00           | 359.60      | 12,420.0              | 226.1        | -295.3       | 246.3                   | 12.00                   | 11.99                  | 0.43                  |
| 12,800.0              | 90.00           | 359.60      | 12,420.0              | 324.4        | -295.9       | 344.4                   | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.00           | 359.60      | 12,420.0              | 424.4        | -296.6       | 444.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.00           | 359.60      | 12,420.0              | 524.4        | -297.3       | 544.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.00           | 359.60      | 12,420.0              | 624.4        | -298.0       | 643.8                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.00           | 359.60      | 12,420.0              | 724.4        | -298.7       | 743.6                   | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 359.60      | 12,420.0              | 824.4        | -299.4       | 843.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 359.60      | 12,420.0              | 924.4        | -300.1       | 943.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 359.60      | 12,420.0              | 1,024.4      | -300.8       | 1,043.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 359.60      | 12,420.0              | 1,124.4      | -301.5       | 1,142.8                 | 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: Barlow 34 Fed Com  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25' @ 3286.0usft  
 MD Reference: KB = 25' @ 3286.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,700.0              | 90.00           | 359.60      | 12,420.0              | 1,224.4      | -302.2       | 1,242.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 359.60      | 12,420.0              | 1,324.4      | -302.9       | 1,342.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 359.60      | 12,420.0              | 1,424.4      | -303.6       | 1,442.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 359.60      | 12,420.0              | 1,524.4      | -304.3       | 1,542.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 359.60      | 12,420.0              | 1,624.4      | -305.0       | 1,641.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 359.60      | 12,420.0              | 1,724.4      | -305.7       | 1,741.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 359.60      | 12,420.0              | 1,824.4      | -306.4       | 1,841.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 359.60      | 12,420.0              | 1,924.4      | -307.1       | 1,941.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 359.60      | 12,420.0              | 2,024.4      | -307.8       | 2,041.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 359.60      | 12,420.0              | 2,124.4      | -308.5       | 2,140.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 359.60      | 12,420.0              | 2,224.4      | -309.2       | 2,240.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 359.60      | 12,420.0              | 2,324.4      | -309.9       | 2,340.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 359.60      | 12,420.0              | 2,424.4      | -310.6       | 2,440.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 359.60      | 12,420.0              | 2,524.4      | -311.3       | 2,540.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 359.60      | 12,420.0              | 2,624.4      | -312.0       | 2,639.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 359.60      | 12,420.0              | 2,724.4      | -312.7       | 2,739.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 359.60      | 12,420.0              | 2,824.4      | -313.4       | 2,839.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 359.60      | 12,420.0              | 2,924.4      | -314.1       | 2,939.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 359.60      | 12,420.0              | 3,024.4      | -314.8       | 3,039.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 359.60      | 12,420.0              | 3,124.4      | -315.5       | 3,138.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 359.60      | 12,420.0              | 3,224.4      | -316.2       | 3,238.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 359.60      | 12,420.0              | 3,324.4      | -316.9       | 3,338.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 359.60      | 12,420.0              | 3,424.4      | -317.6       | 3,438.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 359.60      | 12,420.0              | 3,524.4      | -318.3       | 3,538.0                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 359.60      | 12,420.0              | 3,624.4      | -319.0       | 3,637.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 359.60      | 12,420.0              | 3,724.4      | -319.7       | 3,737.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 359.60      | 12,420.0              | 3,824.4      | -320.4       | 3,837.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 359.60      | 12,420.0              | 3,924.3      | -321.1       | 3,937.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 359.60      | 12,420.0              | 4,024.3      | -321.8       | 4,037.0                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 359.60      | 12,420.0              | 4,124.3      | -322.5       | 4,136.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 359.60      | 12,420.0              | 4,224.3      | -323.2       | 4,236.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 359.60      | 12,420.0              | 4,324.3      | -323.9       | 4,336.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 359.60      | 12,420.0              | 4,424.3      | -324.6       | 4,436.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 359.60      | 12,420.0              | 4,524.3      | -325.3       | 4,536.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,105.7              | 90.00           | 359.60      | 12,420.0              | 4,630.0      | -326.0       | 4,641.5                 | 0.00                    | 0.00                   | 0.00                  |

### Design Targets

| Target Name                                                                               | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude        |
|-------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| - hit/miss target                                                                         |               |              |            |              |              |                 |                |                 |                  |
| - Shape                                                                                   |               |              |            |              |              |                 |                |                 |                  |
| FTP (Barlow 34 Fed Cor                                                                    | 0.00          | 0.00         | 12,420.0   | 28.0         | -295.0       | 365,002.00      | 778,686.00     | 32° 0' 4.176 N  | 103° 34' 3.590 W |
| - plan misses target center by 39.5usft at 12514.0usft MD (12383.6 TVD, 43.3 N, -292.7 E) |               |              |            |              |              |                 |                |                 |                  |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                  |
| PBHL (Barlow 34 Fed C:                                                                    | 0.00          | 0.00         | 12,420.0   | 4,630.0      | -326.0       | 369,604.00      | 778,655.00     | 32° 0' 49.718 N | 103° 34' 3.572 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                  |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                  |