



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



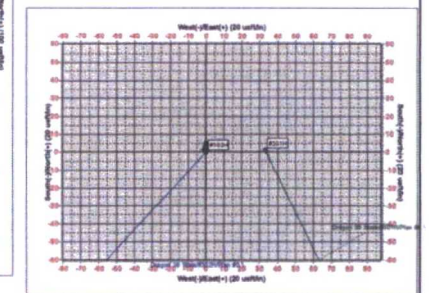
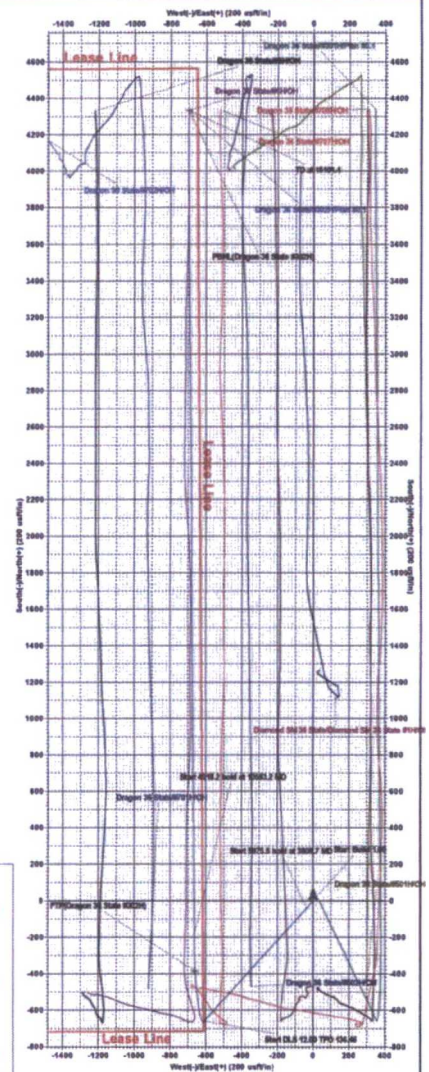
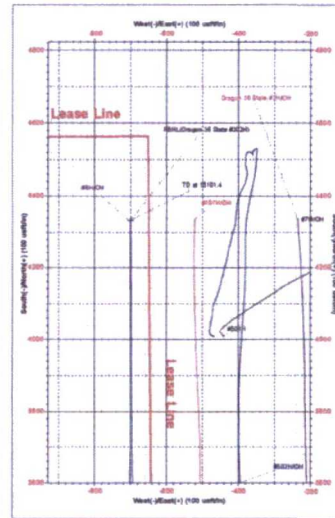
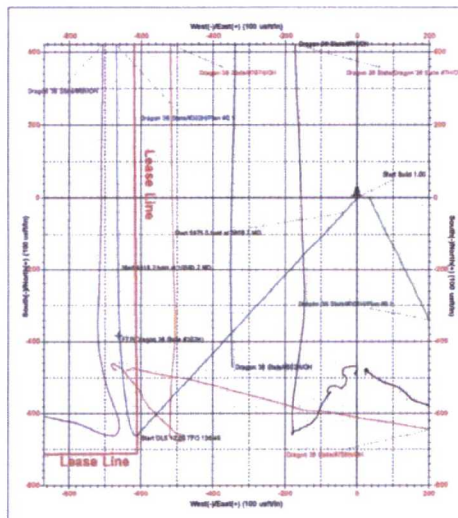
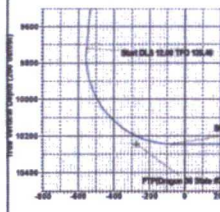
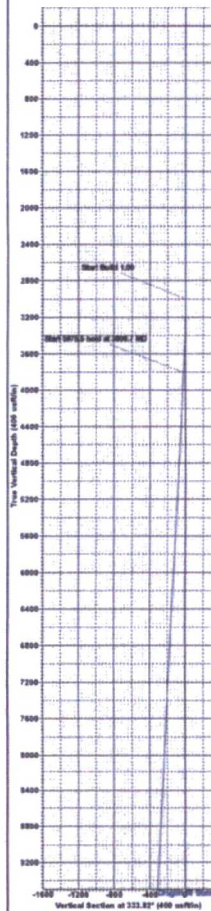
Azimuths to Grid North  
 True North: -0.43°  
 Magnetic North: 6.41°  
 Magnetic Field  
 Strength: 47830.3nT  
 Dip Angle: 60.01°  
 Date: 3/28/2018  
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.41°  
To convert a Magnetic Direction to a True Direction, Add 8.84° East  
To convert a True Direction to a Grid Direction, Subtract 0.43°

| WELL DETAILS #302H |      |                   |           |                 |                   |      |
|--------------------|------|-------------------|-----------|-----------------|-------------------|------|
|                    |      | 3487.0            |           |                 |                   |      |
|                    |      | KB = 25 @ 2512.0m |           |                 |                   |      |
| -N-S               | -E-W | Northing          | Easting   | Latitude        | Longitude         | Site |
| 0 0                | 0 0  | 426078.00         | 793089.00 | 32° 10' 7.502 N | 103° 31' 11.220 W |      |

| SECTION DETAILS |         |       |        |         |        |        |       |        |        | Target                      |
|-----------------|---------|-------|--------|---------|--------|--------|-------|--------|--------|-----------------------------|
| Sec             | MD      | Inc   | Azi    | TVD     | +N/S   | +E/W   | Dlog  | TFace  | VSect  |                             |
| 1               | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                             |
| 2               | 3000.0  | 0.00  | 0.00   | 3000.0  | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                             |
| 3               | 3608.7  | 8.09  | 222.80 | 3608.0  | -4.8   | -38.7  | 1.00  | 222.80 | -35.1  |                             |
| 4               | 9784.2  | 8.09  | 222.80 | 9722.1  | -658.8 | -609.8 | 0.00  | 0.00   | -552.9 |                             |
| 5               | 10583.2 | 90.00 | 359.55 | 10246.0 | -184.0 | -664.8 | 12.00 | 136.46 | -75.7  |                             |
| 6               | 15101.4 | 90.00 | 359.55 | 10246.0 | 4334.0 | -700.0 | 0.00  | 0.00   | 4390.2 |                             |
|                 |         |       |        |         |        |        |       |        |        | PBHL(Dragon 36 State #302H) |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) |         |        |        |           |           |       |
|--------------------------------------------|---------|--------|--------|-----------|-----------|-------|
| Name                                       | TVD     | +N-S   | +E-W   | Northing  | Easting   | Shape |
| FTP(Dragon 36 State #302H)                 | 10246.0 | -384.0 | -663.0 | 426694.00 | 792469.00 | Point |
| PBH(L(Dragon 36 State #302H)               | 10246.0 | 4334.0 | -700.3 | 430412.00 | 792369.00 | Point |





## **EOG Resources - Midland**

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

**Dragon 36 State**

**#302H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**28 March, 2018**

Database: EDM 5000.14  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Dragon 36 State  
Well: #302H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #302H  
TVD Reference: KB = 25 @ 3512.0usft  
MD Reference: KB = 25 @ 3512.0usft  
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: Dragon 36 State

Site Position: Northing: 426,079.00 usft Latitude: 32° 10' 7.510 N  
From: Map Easting: 793,102.00 usft Longitude: 103° 31' 10.836 W  
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.43 °

Well: #302H

Well Position: +N/-S -1.0 usft Northing: 426,078.00 usft Latitude: 32° 10' 7.502 N  
+E/-W -33.0 usft Easting: 793,069.00 usft Longitude: 103° 31' 11.220 W  
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 3,487.0 usft

Wellbore: OH

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2015   | 3/28/2018   | 6.84               | 60.01            | 47,830.28819638        |

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             | 350.83           |

Plan Survey Tool Program Date: 3/28/2018

| Depth From<br>(usft) | Depth To<br>(usft) | Survey (Wellbore)       | Tool Name           | Remarks |
|----------------------|--------------------|-------------------------|---------------------|---------|
| 1                    | 0.0                | 15,101.4 Plan #0.1 (OH) | MWD                 |         |
|                      |                    |                         | OWSG MWD - Standard |         |

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       |                     |
| 3,000.0                     | 0.00               | 0.00           | 3,000.0                     | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                     |
| 3,808.7                     | 8.09               | 222.80         | 3,806.0                     | -41.8           | -38.7           | 1.00                          | 1.00                         | 0.00                        | 222.80     |                     |
| 9,784.2                     | 8.09               | 222.80         | 9,722.1                     | -658.6          | -609.8          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                     |
| 10,583.2                    | 90.00              | 359.55         | 10,246.0                    | -184.0          | -664.6          | 12.00                         | 10.25                        | 17.12                       | 136.46     |                     |
| 15,101.4                    | 90.00              | 359.55         | 10,246.0                    | 4,334.0         | -700.0          | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL(Dragon 36 Stat |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Dragon 36 State  
 Well: #302H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #302H  
 TVD Reference: KB = 25 @ 3512.0usft  
 MD Reference: KB = 25 @ 3512.0usft  
 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               | 1.00            | 222.80      | 3,100.0               | -0.6         | -0.6         | -0.5                    | 1.00                    | 1.00                   | 0.00                  |
| 3,200.0               | 2.00            | 222.80      | 3,200.0               | -2.6         | -2.4         | -2.2                    | 1.00                    | 1.00                   | 0.00                  |
| 3,300.0               | 3.00            | 222.80      | 3,299.9               | -5.8         | -5.3         | -4.8                    | 1.00                    | 1.00                   | 0.00                  |
| 3,400.0               | 4.00            | 222.80      | 3,399.7               | -10.2        | -9.5         | -8.6                    | 1.00                    | 1.00                   | 0.00                  |
| 3,500.0               | 5.00            | 222.80      | 3,499.4               | -16.0        | -14.8        | -13.4                   | 1.00                    | 1.00                   | 0.00                  |
| 3,600.0               | 6.00            | 222.80      | 3,598.9               | -23.0        | -21.3        | -19.3                   | 1.00                    | 1.00                   | 0.00                  |
| 3,700.0               | 7.00            | 222.80      | 3,698.3               | -31.3        | -29.0        | -26.3                   | 1.00                    | 1.00                   | 0.00                  |
| 3,808.7               | 8.09            | 222.80      | 3,806.0               | -41.8        | -38.7        | -35.1                   | 1.00                    | 1.00                   | 0.00                  |
| 3,900.0               | 8.09            | 222.80      | 3,896.4               | -51.2        | -47.4        | -43.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 8.09            | 222.80      | 3,995.4               | -61.6        | -57.0        | -51.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 8.09            | 222.80      | 4,094.4               | -71.9        | -66.6        | -60.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 8.09            | 222.80      | 4,193.4               | -82.2        | -76.1        | -69.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 8.09            | 222.80      | 4,292.4               | -92.5        | -85.7        | -77.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 8.09            | 222.80      | 4,391.4               | -102.8       | -95.2        | -86.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 8.09            | 222.80      | 4,490.4               | -113.2       | -104.8       | -95.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 8.09            | 222.80      | 4,589.4               | -123.5       | -114.3       | -103.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 8.09            | 222.80      | 4,688.5               | -133.8       | -123.9       | -112.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 8.09            | 222.80      | 4,787.5               | -144.1       | -133.5       | -121.0                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 8.09            | 222.80      | 4,886.5               | -154.4       | -143.0       | -129.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 8.09            | 222.80      | 4,985.5               | -164.8       | -152.6       | -138.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 8.09            | 222.80      | 5,084.5               | -175.1       | -162.1       | -147.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 8.09            | 222.80      | 5,183.5               | -185.4       | -171.7       | -155.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 8.09            | 222.80      | 5,282.5               | -195.7       | -181.2       | -164.3                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #302H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3512.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3512.0usft |
| Site:     | Dragon 36 State             | North Reference:             | Grid                 |
| Well:     | #302H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.1                   |                              |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 5,400.0               | 8.09            | 222.80      | 5,381.5               | -206.1       | -190.8       | -173.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0               | 8.09            | 222.80      | 5,480.5               | -216.4       | -200.4       | -181.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0               | 8.09            | 222.80      | 5,579.5               | -226.7       | -209.9       | -190.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0               | 8.09            | 222.80      | 5,678.5               | -237.0       | -219.5       | -199.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0               | 8.09            | 222.80      | 5,777.5               | -247.3       | -229.0       | -207.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0               | 8.09            | 222.80      | 5,876.5               | -257.7       | -238.6       | -216.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0               | 8.09            | 222.80      | 5,975.5               | -268.0       | -248.2       | -225.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0               | 8.09            | 222.80      | 6,074.5               | -278.3       | -257.7       | -233.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0               | 8.09            | 222.80      | 6,173.5               | -288.6       | -267.3       | -242.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0               | 8.09            | 222.80      | 6,272.5               | -298.9       | -276.8       | -251.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0               | 8.09            | 222.80      | 6,371.6               | -309.3       | -286.4       | -259.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0               | 8.09            | 222.80      | 6,470.6               | -319.6       | -295.9       | -268.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0               | 8.09            | 222.80      | 6,569.6               | -329.9       | -305.5       | -277.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0               | 8.09            | 222.80      | 6,668.6               | -340.2       | -315.1       | -285.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0               | 8.09            | 222.80      | 6,767.6               | -350.6       | -324.6       | -294.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0               | 8.09            | 222.80      | 6,866.6               | -360.9       | -334.2       | -303.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0               | 8.09            | 222.80      | 6,965.6               | -371.2       | -343.7       | -311.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0               | 8.09            | 222.80      | 7,064.6               | -381.5       | -353.3       | -320.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0               | 8.09            | 222.80      | 7,163.6               | -391.8       | -362.8       | -329.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0               | 8.09            | 222.80      | 7,262.6               | -402.2       | -372.4       | -337.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0               | 8.09            | 222.80      | 7,361.6               | -412.5       | -382.0       | -346.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0               | 8.09            | 222.80      | 7,460.6               | -422.8       | -391.5       | -355.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0               | 8.09            | 222.80      | 7,559.6               | -433.1       | -401.1       | -363.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0               | 8.09            | 222.80      | 7,658.6               | -443.4       | -410.6       | -372.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.0               | 8.09            | 222.80      | 7,757.6               | -453.8       | -420.2       | -381.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.0               | 8.09            | 222.80      | 7,856.6               | -464.1       | -429.8       | -389.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.0               | 8.09            | 222.80      | 7,955.6               | -474.4       | -439.3       | -398.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.0               | 8.09            | 222.80      | 8,054.6               | -484.7       | -448.9       | -407.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,200.0               | 8.09            | 222.80      | 8,153.7               | -495.1       | -458.4       | -415.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,300.0               | 8.09            | 222.80      | 8,252.7               | -505.4       | -468.0       | -424.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.0               | 8.09            | 222.80      | 8,351.7               | -515.7       | -477.5       | -433.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.0               | 8.09            | 222.80      | 8,450.7               | -526.0       | -487.1       | -441.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.0               | 8.09            | 222.80      | 8,549.7               | -536.3       | -496.7       | -450.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.0               | 8.09            | 222.80      | 8,648.7               | -546.7       | -506.2       | -458.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.0               | 8.09            | 222.80      | 8,747.7               | -557.0       | -515.8       | -467.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.0               | 8.09            | 222.80      | 8,846.7               | -567.3       | -525.3       | -476.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.0               | 8.09            | 222.80      | 8,945.7               | -577.6       | -534.9       | -484.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.0               | 8.09            | 222.80      | 9,044.7               | -587.9       | -544.4       | -493.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0               | 8.09            | 222.80      | 9,143.7               | -598.3       | -554.0       | -502.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0               | 8.09            | 222.80      | 9,242.7               | -608.6       | -563.6       | -510.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0               | 8.09            | 222.80      | 9,341.7               | -618.9       | -573.1       | -519.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0               | 8.09            | 222.80      | 9,440.7               | -629.2       | -582.7       | -528.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0               | 8.09            | 222.80      | 9,539.7               | -639.6       | -592.2       | -536.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0               | 8.09            | 222.80      | 9,638.7               | -649.9       | -601.8       | -545.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,784.2               | 8.09            | 222.80      | 9,722.1               | -658.6       | -609.8       | -552.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0               | 6.84            | 233.84      | 9,737.8               | -659.9       | -611.4       | -554.0                  | 12.00                   | -7.91                  | 69.86                 |  |
| 9,825.0               | 5.65            | 259.50      | 9,762.6               | -661.0       | -613.8       | -554.7                  | 12.00                   | -4.76                  | 102.63                |  |
| 9,850.0               | 5.91            | 289.52      | 9,787.5               | -660.8       | -616.2       | -554.1                  | 12.00                   | 1.07                   | 120.07                |  |
| 9,875.0               | 7.48            | 311.72      | 9,812.3               | -659.3       | -618.6       | -552.2                  | 12.00                   | 6.28                   | 88.82                 |  |
| 9,900.0               | 9.75            | 325.02      | 9,837.1               | -656.5       | -621.0       | -549.1                  | 12.00                   | 9.05                   | 53.19                 |  |
| 9,925.0               | 12.32           | 333.09      | 9,861.6               | -652.4       | -623.5       | -544.6                  | 12.00                   | 10.32                  | 32.27                 |  |
| 9,950.0               | 15.06           | 338.34      | 9,885.9               | -647.0       | -625.9       | -538.9                  | 12.00                   | 10.94                  | 20.99                 |  |
| 9,975.0               | 17.88           | 341.98      | 9,909.9               | -640.3       | -628.3       | -531.9                  | 12.00                   | 11.27                  | 14.58                 |  |
| 10,000.0              | 20.74           | 344.66      | 9,933.4               | -632.4       | -630.6       | -523.8                  | 12.00                   | 11.47                  | 10.69                 |  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #302H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3512.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3512.0usft |
| Site:     | Dragon 36 State             | North Reference:             | Grid                 |
| Well:     | #302H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.1                   |                              |                      |

| Planned Survey             |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 10,025.0                   | 23.64           | 346.70      | 9,956.6               | -623.2       | -632.9       | -514.4                  | 12.00                   | 11.60                  | 8.18                  |
| 10,050.0                   | 26.56           | 348.32      | 9,979.2               | -612.9       | -635.2       | -503.8                  | 12.00                   | 11.68                  | 6.48                  |
| 10,075.0                   | 29.50           | 349.64      | 10,001.3              | -601.4       | -637.5       | -492.0                  | 12.00                   | 11.74                  | 5.28                  |
| 10,100.0                   | 32.44           | 350.74      | 10,022.7              | -588.7       | -639.7       | -479.2                  | 12.00                   | 11.78                  | 4.40                  |
| 10,125.0                   | 35.40           | 351.68      | 10,043.5              | -574.9       | -641.8       | -465.2                  | 12.00                   | 11.82                  | 3.74                  |
| 10,150.0                   | 38.36           | 352.49      | 10,063.5              | -560.0       | -643.8       | -450.2                  | 12.00                   | 11.84                  | 3.23                  |
| 10,175.0                   | 41.33           | 353.19      | 10,082.7              | -544.1       | -645.8       | -434.2                  | 12.00                   | 11.86                  | 2.84                  |
| 10,200.0                   | 44.29           | 353.82      | 10,101.0              | -527.3       | -647.8       | -417.2                  | 12.00                   | 11.88                  | 2.52                  |
| 10,225.0                   | 47.27           | 354.39      | 10,118.4              | -509.4       | -649.6       | -399.4                  | 12.00                   | 11.89                  | 2.27                  |
| 10,250.0                   | 50.24           | 354.91      | 10,134.9              | -490.7       | -651.3       | -380.6                  | 12.00                   | 11.90                  | 2.06                  |
| 10,275.0                   | 53.22           | 355.38      | 10,150.4              | -471.2       | -653.0       | -361.0                  | 12.00                   | 11.91                  | 1.89                  |
| 10,300.0                   | 56.20           | 355.81      | 10,164.8              | -450.8       | -654.6       | -340.7                  | 12.00                   | 11.92                  | 1.75                  |
| 10,325.0                   | 59.18           | 356.22      | 10,178.2              | -429.8       | -656.0       | -319.7                  | 12.00                   | 11.92                  | 1.63                  |
| 10,350.0                   | 62.16           | 356.60      | 10,190.4              | -408.0       | -657.4       | -298.0                  | 12.00                   | 11.93                  | 1.53                  |
| 10,375.0                   | 65.14           | 356.97      | 10,201.5              | -385.6       | -658.7       | -275.7                  | 12.00                   | 11.93                  | 1.45                  |
| 10,394.3                   | 67.45           | 357.23      | 10,209.3              | -368.0       | -659.6       | -258.1                  | 12.00                   | 11.93                  | 1.39                  |
| FTP(Dragon 36 State #302H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,400.0                   | 68.12           | 357.31      | 10,211.4              | -362.7       | -659.8       | -252.9                  | 12.00                   | 11.93                  | 1.36                  |
| 10,425.0                   | 71.11           | 357.64      | 10,220.2              | -339.3       | -660.8       | -229.6                  | 12.00                   | 11.94                  | 1.32                  |
| 10,450.0                   | 74.09           | 357.96      | 10,227.6              | -315.5       | -661.7       | -205.9                  | 12.00                   | 11.94                  | 1.28                  |
| 10,475.0                   | 77.08           | 358.27      | 10,233.9              | -291.3       | -662.5       | -181.9                  | 12.00                   | 11.94                  | 1.24                  |
| 10,500.0                   | 80.06           | 358.57      | 10,238.8              | -266.8       | -663.2       | -157.6                  | 12.00                   | 11.94                  | 1.21                  |
| 10,525.0                   | 83.05           | 358.87      | 10,242.5              | -242.1       | -663.8       | -133.1                  | 12.00                   | 11.94                  | 1.19                  |
| 10,550.0                   | 86.03           | 359.16      | 10,244.9              | -217.2       | -664.2       | -108.5                  | 12.00                   | 11.94                  | 1.17                  |
| 10,575.0                   | 89.02           | 359.46      | 10,245.9              | -192.2       | -664.5       | -83.8                   | 12.00                   | 11.94                  | 1.17                  |
| 10,583.2                   | 90.00           | 359.55      | 10,246.0              | -184.0       | -664.6       | -75.7                   | 12.00                   | 11.94                  | 1.16                  |
| 10,600.0                   | 90.00           | 359.55      | 10,246.0              | -167.2       | -664.7       | -59.1                   | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                   | 90.00           | 359.55      | 10,246.0              | -67.2        | -665.5       | 39.7                    | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                   | 90.00           | 359.55      | 10,246.0              | 32.8         | -666.3       | 138.6                   | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                   | 90.00           | 359.55      | 10,246.0              | 132.8        | -667.1       | 237.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                   | 90.00           | 359.55      | 10,246.0              | 232.8        | -667.8       | 336.3                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                   | 90.00           | 359.55      | 10,246.0              | 332.8        | -668.6       | 435.1                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                   | 90.00           | 359.55      | 10,246.0              | 432.8        | -669.4       | 534.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                   | 90.00           | 359.55      | 10,246.0              | 532.8        | -670.2       | 632.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                   | 90.00           | 359.55      | 10,246.0              | 632.8        | -671.0       | 731.6                   | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                   | 90.00           | 359.55      | 10,246.0              | 732.7        | -671.8       | 830.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                   | 90.00           | 359.55      | 10,246.0              | 832.7        | -672.5       | 929.3                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                   | 90.00           | 359.55      | 10,246.0              | 932.7        | -673.3       | 1,028.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                   | 90.00           | 359.55      | 10,246.0              | 1,032.7      | -674.1       | 1,127.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                   | 90.00           | 359.55      | 10,246.0              | 1,132.7      | -674.9       | 1,225.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                   | 90.00           | 359.55      | 10,246.0              | 1,232.7      | -675.7       | 1,324.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                   | 90.00           | 359.55      | 10,246.0              | 1,332.7      | -676.5       | 1,423.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                   | 90.00           | 359.55      | 10,246.0              | 1,432.7      | -677.2       | 1,522.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                   | 90.00           | 359.55      | 10,246.0              | 1,532.7      | -678.0       | 1,621.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                   | 90.00           | 359.55      | 10,246.0              | 1,632.7      | -678.8       | 1,720.1                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                   | 90.00           | 359.55      | 10,246.0              | 1,732.7      | -679.6       | 1,818.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                   | 90.00           | 359.55      | 10,246.0              | 1,832.7      | -680.4       | 1,917.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                   | 90.00           | 359.55      | 10,246.0              | 1,932.7      | -681.2       | 2,016.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                   | 90.00           | 359.55      | 10,246.0              | 2,032.7      | -682.0       | 2,115.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                   | 90.00           | 359.55      | 10,246.0              | 2,132.7      | -682.7       | 2,214.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                   | 90.00           | 359.55      | 10,246.0              | 2,232.7      | -683.5       | 2,313.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                   | 90.00           | 359.55      | 10,246.0              | 2,332.7      | -684.3       | 2,412.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                   | 90.00           | 359.55      | 10,246.0              | 2,432.7      | -685.1       | 2,510.8                 | 0.00                    | 0.00                   | 0.00                  |



## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Dragon 36 State  
**Well:** #302H  
**Wellbore:** OH  
**Design:** Plan #0.1

**Local Co-ordinate Reference:**  
**TVD Reference:** KB = 25 @ 3512.0usft  
**MD Reference:** KB = 25 @ 3512.0usft  
**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,300.0              | 90.00           | 359.55      | 10,246.0              | 2,532.7      | -685.9       | 2,609.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 359.55      | 10,246.0              | 2,632.7      | -686.7       | 2,708.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 359.55      | 10,246.0              | 2,732.7      | -687.4       | 2,807.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 359.55      | 10,246.0              | 2,832.7      | -688.2       | 2,906.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 359.55      | 10,246.0              | 2,932.7      | -689.0       | 3,005.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 359.55      | 10,246.0              | 3,032.7      | -689.8       | 3,103.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 359.55      | 10,246.0              | 3,132.7      | -690.6       | 3,202.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 359.55      | 10,246.0              | 3,232.7      | -691.4       | 3,301.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 359.55      | 10,246.0              | 3,332.7      | -692.1       | 3,400.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 359.55      | 10,246.0              | 3,432.7      | -692.9       | 3,499.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 359.55      | 10,246.0              | 3,532.7      | -693.7       | 3,598.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 359.55      | 10,246.0              | 3,632.7      | -694.5       | 3,696.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 359.55      | 10,246.0              | 3,732.7      | -695.3       | 3,795.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 359.55      | 10,246.0              | 3,832.7      | -696.1       | 3,894.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 359.55      | 10,246.0              | 3,932.6      | -696.9       | 3,993.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 359.55      | 10,246.0              | 4,032.6      | -697.6       | 4,092.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 359.55      | 10,246.0              | 4,132.6      | -698.4       | 4,191.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 359.55      | 10,246.0              | 4,232.6      | -699.2       | 4,290.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,101.4              | 90.00           | 359.55      | 10,246.0              | 4,334.0      | -700.0       | 4,390.2                 | 0.00                    | 0.00                   | 0.00                  |

PBHL(Dragon 36 State #302H)

### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                      | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|----------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| FTP(Dragon 36 State #3<br>- plan misses target center by 40.2usft at 10394.3usft MD (10209.3 TVD, -368.0 N, -659.6 E)<br>- Point | 0.00          | 0.00         | 10,246.0   | -384.0       | -663.0       | 425,694.00      | 792,406.00     | 32° 10' 3.752 N  | 103° 31' 18.967 W |
| PBHL(Dragon 36 State #<br>- plan hits target center<br>- Point                                                                   | 0.00          | 0.00         | 10,246.0   | 4,334.0      | -700.0       | 430,412.00      | 792,369.00     | 32° 10' 50.440 N | 103° 31' 18.983 W |