



Lea County, NM (NAD 83 NME)

Ruby 2 State Com #708H

Plan #0.1

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

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

WELL DETAILS: #708H

3267.0  
KB = 25' @ 3322.0usft  
Northing 393570.00 Easting 819554.00 Latitude 32° 4' 43.750 N Longitude 103° 26' 6.263 W

#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | Diag  | TFace   | VSeal  | Target                        |
|-----|---------|-------|--------|---------|---------|--------|-------|---------|--------|-------------------------------|
| 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   | 4198.1  | 1.98  | 339.14 | 4198.1  | 3.2     | -1.2   | 1.00  | 339.14  | -3.2   |                               |
| 4   | 12142.9 | 1.98  | 339.14 | 12138.1 | 259.8   | -99.0  | 0.00  | 0.00    | -258.6 |                               |
| 5   | 12908.4 | 90.00 | 179.45 | 12631.0 | -217.4  | -100.3 | 12.00 | -159.68 | 218.6  |                               |
| 6   | 17423.2 | 90.00 | 179.45 | 12631.0 | -4732.0 | -57.0  | 0.00  | 0.00    | 4732.3 | PBHL (Ruby 2 State Com #708H) |



Azimuth to Grid North  
True North: -4.48°  
Magnetic North: 6.34°  
Magnetic Field  
Strength: 47812.1nT  
Dip Angle: 98.84°  
Date: 12/29/2017  
Model: IGRF2015

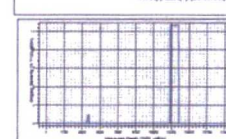
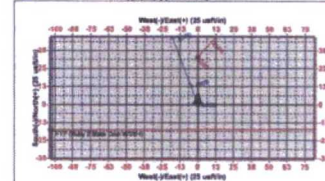
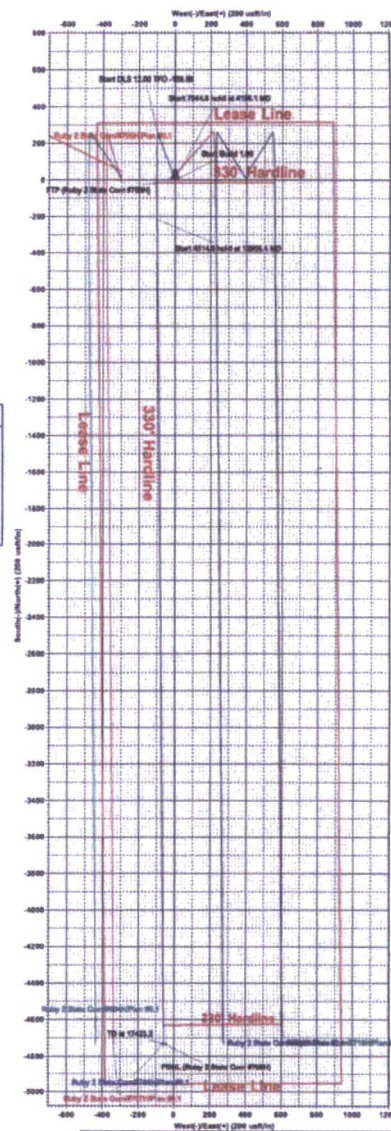
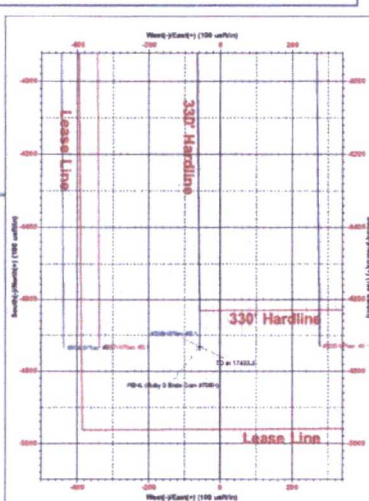
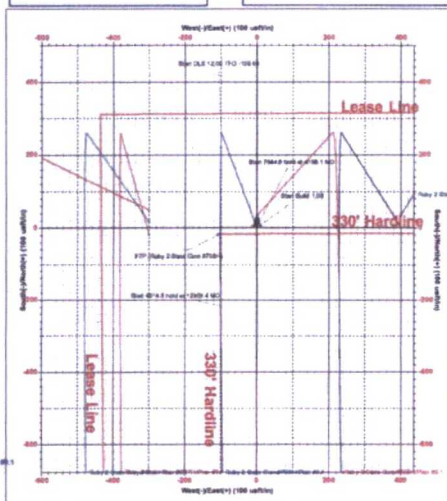
To convert a Magnetic Direction to a Grid Direction, Add 6.34°  
To convert a Magnetic Direction to a True Direction, Add 6.82° East  
To convert a True Direction to a Grid Direction, Subtract 0.48°

#### CASING DETAILS

No casing data is available

#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                          | TVD     | +N/-S   | +E/-W  | Northing  | Easting   |
|-------------------------------|---------|---------|--------|-----------|-----------|
| PBHL (Ruby 2 State Com #708H) | 12631.0 | -4732.0 | -57.0  | 388838.00 | 819487.00 |
| FTP (Ruby 2 State Com #708H)  | 12631.0 | -18.0   | -162.0 | 393552.00 | 819452.00 |



Scale: 1 inch = 100 feet  
Datum: NAD 83  
Projection: UTM  
Zone: 18N



## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Ruby 2 State Com

#708H

OH

Plan: Plan #0.1

## **Standard Planning Report**

02 January, 2018



## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Ruby 2 State Com  
**Well:** #708H  
**Wellbore:** OH  
**Design:** Plan #0.1

**Local Co-ordinate Reference:** Well #708H  
**TVD Reference:** KB = 25' @ 3322.0usft  
**MD Reference:** KB = 25' @ 3322.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

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

|                              |                  |                          |                   |
|------------------------------|------------------|--------------------------|-------------------|
| <b>Site</b>                  | Ruby 2 State Com |                          |                   |
| <b>Site Position:</b>        |                  | <b>Northing:</b>         | 393,589.99 usft   |
| <b>From:</b>                 | Map              | <b>Easting:</b>          | 775,148.00 usft   |
| <b>Position Uncertainty:</b> | 0.0 usft         | <b>Slot Radius:</b>      | 13-3/16"          |
|                              |                  | <b>Latitude:</b>         | 32° 4' 47.315 N   |
|                              |                  | <b>Longitude:</b>        | 103° 34' 42.355 W |
|                              |                  | <b>Grid Convergence:</b> | 0.40 °            |

|                             |          |                            |                                    |
|-----------------------------|----------|----------------------------|------------------------------------|
| <b>Well</b>                 | #708H    |                            |                                    |
| <b>Well Position</b>        | +N/-S    | -20.0 usft                 | <b>Northing:</b> 393,570.00 usft   |
|                             | +E/-W    | 44,406.0 usft              | <b>Easting:</b> 819,554.00 usft    |
| <b>Position Uncertainty</b> | 0.0 usft | <b>Wellhead Elevation:</b> | <b>Latitude:</b> 32° 4' 43.750 N   |
|                             |          |                            | <b>Longitude:</b> 103° 26' 6.263 W |
|                             |          |                            | <b>Ground Level:</b> 3,297.0 usft  |

|                  |                   |                    |                       |
|------------------|-------------------|--------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b>    |
|                  | IGRF2015          | 12/29/2017         | (°)                   |
|                  |                   |                    | 6.82                  |
|                  |                   |                    | <b>Dip Angle</b>      |
|                  |                   |                    | (°)                   |
|                  |                   |                    | 59.94                 |
|                  |                   |                    | <b>Field Strength</b> |
|                  |                   |                    | (nT)                  |
|                  |                   |                    | 47,812.14147633       |

|                          |                         |              |                          |
|--------------------------|-------------------------|--------------|--------------------------|
| <b>Design</b>            | Plan #0.1               |              |                          |
| <b>Audit Notes:</b>      |                         |              |                          |
| <b>Version:</b>          | <b>Phase:</b>           | PLAN         | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>             |
|                          | (usft)                  | (usft)       | (usft)                   |
|                          | 0.0                     | 0.0          | 0.0                      |
|                          |                         |              | <b>Direction</b>         |
|                          |                         |              | (°)                      |
|                          |                         |              | 180.69                   |

|                                 |                 |                          |                  |                |
|---------------------------------|-----------------|--------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>     | 1/2/2018                 |                  |                |
| <b>Depth From</b>               | <b>Depth To</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Remarks</b> |
| (usft)                          | (usft)          |                          |                  |                |
| 1                               | 0.0             | 17,423.2 Plan #0.1 (OH)  | MWD              |                |
|                                 |                 |                          | MWD - Standard   |                |

|                      |                    |                |                 |              |              |               |              |             |            |                      |
|----------------------|--------------------|----------------|-----------------|--------------|--------------|---------------|--------------|-------------|------------|----------------------|
| <b>Plan Sections</b> |                    |                |                 |              |              |               |              |             |            |                      |
| <b>Measured</b>      | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Dogleg</b> | <b>Build</b> | <b>Turn</b> | <b>TFO</b> | <b>Target</b>        |
| <b>Depth</b>         | (°)                | (°)            | <b>Depth</b>    | (usft)       | (usft)       | <b>Rate</b>   | <b>Rate</b>  | <b>Rate</b> | (°)        |                      |
| (usft)               |                    |                | (usft)          |              |              | (°/100usft)   | (°/100usft)  | (°/100usft) |            |                      |
| 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       |                      |
| 4,198.1              | 1.98               | 339.14         | 4,198.1         | 3.2          | -1.2         | 1.00          | 1.00         | 0.00        | 339.14     |                      |
| 12,142.9             | 1.98               | 339.14         | 12,138.1        | 259.8        | -99.0        | 0.00          | 0.00         | 0.00        | 0.00       |                      |
| 12,908.4             | 90.00              | 179.45         | 12,631.0        | -217.4       | -100.3       | 12.00         | 11.50        | -20.86      | -159.68    |                      |
| 17,423.2             | 90.00              | 179.45         | 12,631.0        | -4,732.0     | -57.0        | 0.00          | 0.00         | 0.00        | 0.00       | PBHL (Ruby 2 State C |



## Planning Report

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 Project: Lea County, NM (NAD 83 NME)  
 Site: Ruby 2 State Com  
 Well: #708H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H  
 TVD Reference: KB = 25' @ 3322.0usft  
 MD Reference: KB = 25' @ 3322.0usft  
 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            | 339.14      | 4,100.0               | 0.8          | -0.3         | -0.8                    | 1.00                    | 1.00                   | 0.00                  |
| 4,198.1               | 1.98            | 339.14      | 4,198.1               | 3.2          | -1.2         | -3.2                    | 1.00                    | 1.00                   | 0.00                  |
| 4,200.0               | 1.98            | 339.14      | 4,200.0               | 3.3          | -1.2         | -3.2                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 1.98            | 339.14      | 4,299.9               | 6.5          | -2.5         | -6.5                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 1.98            | 339.14      | 4,399.8               | 9.7          | -3.7         | -9.7                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 1.98            | 339.14      | 4,499.8               | 13.0         | -4.9         | -12.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 1.98            | 339.14      | 4,599.7               | 16.2         | -6.2         | -16.1                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 1.98            | 339.14      | 4,699.7               | 19.4         | -7.4         | -19.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 1.98            | 339.14      | 4,799.6               | 22.6         | -8.6         | -22.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 1.98            | 339.14      | 4,899.5               | 25.9         | -9.9         | -25.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 1.98            | 339.14      | 4,999.5               | 29.1         | -11.1        | -29.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 1.98            | 339.14      | 5,099.4               | 32.3         | -12.3        | -32.2                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 1.98            | 339.14      | 5,199.4               | 35.6         | -13.6        | -35.4                   | 0.00                    | 0.00                   | 0.00                  |



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Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H  
TVD Reference: KB = 25' @ 3322.0usft  
MD Reference: KB = 25' @ 3322.0usft  
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               | 1.98            | 339.14      | 5,299.3               | 38.8         | -14.8        | -38.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 1.98            | 339.14      | 5,399.2               | 42.0         | -16.0        | -41.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 1.98            | 339.14      | 5,499.2               | 45.3         | -17.2        | -45.0                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 1.98            | 339.14      | 5,599.1               | 48.5         | -18.5        | -48.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 1.98            | 339.14      | 5,699.1               | 51.7         | -19.7        | -51.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 1.98            | 339.14      | 5,799.0               | 54.9         | -20.9        | -54.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 1.98            | 339.14      | 5,898.9               | 58.2         | -22.2        | -57.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 1.98            | 339.14      | 5,998.9               | 61.4         | -23.4        | -61.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 1.98            | 339.14      | 6,098.8               | 64.6         | -24.6        | -64.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 1.98            | 339.14      | 6,198.8               | 67.9         | -25.9        | -67.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 1.98            | 339.14      | 6,298.7               | 71.1         | -27.1        | -70.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 1.98            | 339.14      | 6,398.6               | 74.3         | -28.3        | -74.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 1.98            | 339.14      | 6,498.6               | 77.6         | -29.6        | -77.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 1.98            | 339.14      | 6,598.5               | 80.8         | -30.8        | -80.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 1.98            | 339.14      | 6,698.5               | 84.0         | -32.0        | -83.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 1.98            | 339.14      | 6,798.4               | 87.2         | -33.2        | -86.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 1.98            | 339.14      | 6,898.3               | 90.5         | -34.5        | -90.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 1.98            | 339.14      | 6,998.3               | 93.7         | -35.7        | -93.3                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 1.98            | 339.14      | 7,098.2               | 96.9         | -36.9        | -96.5                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 1.98            | 339.14      | 7,198.2               | 100.2        | -38.2        | -99.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 1.98            | 339.14      | 7,298.1               | 103.4        | -39.4        | -102.9                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 1.98            | 339.14      | 7,398.0               | 106.6        | -40.6        | -106.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 1.98            | 339.14      | 7,498.0               | 109.9        | -41.9        | -109.3                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 1.98            | 339.14      | 7,597.9               | 113.1        | -43.1        | -112.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 1.98            | 339.14      | 7,697.9               | 116.3        | -44.3        | -115.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 1.98            | 339.14      | 7,797.8               | 119.6        | -45.6        | -119.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 1.98            | 339.14      | 7,897.7               | 122.8        | -46.8        | -122.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 1.98            | 339.14      | 7,997.7               | 126.0        | -48.0        | -125.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 1.98            | 339.14      | 8,097.6               | 129.2        | -49.2        | -128.6                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 1.98            | 339.14      | 8,197.6               | 132.5        | -50.5        | -131.9                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 1.98            | 339.14      | 8,297.5               | 135.7        | -51.7        | -135.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 1.98            | 339.14      | 8,397.4               | 138.9        | -52.9        | -138.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 1.98            | 339.14      | 8,497.4               | 142.2        | -54.2        | -141.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 1.98            | 339.14      | 8,597.3               | 145.4        | -55.4        | -144.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 1.98            | 339.14      | 8,697.3               | 148.6        | -56.6        | -147.9                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 1.98            | 339.14      | 8,797.2               | 151.9        | -57.9        | -151.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 1.98            | 339.14      | 8,897.2               | 155.1        | -59.1        | -154.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 1.98            | 339.14      | 8,997.1               | 158.3        | -60.3        | -157.6                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 1.98            | 339.14      | 9,097.0               | 161.5        | -61.6        | -160.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 1.98            | 339.14      | 9,197.0               | 164.8        | -62.8        | -164.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 1.98            | 339.14      | 9,296.9               | 168.0        | -64.0        | -167.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 1.98            | 339.14      | 9,396.9               | 171.2        | -65.2        | -170.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 1.98            | 339.14      | 9,496.8               | 174.5        | -66.5        | -173.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 1.98            | 339.14      | 9,596.7               | 177.7        | -67.7        | -176.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 1.98            | 339.14      | 9,696.7               | 180.9        | -68.9        | -180.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 1.98            | 339.14      | 9,796.6               | 184.2        | -70.2        | -183.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 1.98            | 339.14      | 9,896.6               | 187.4        | -71.4        | -186.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 1.98            | 339.14      | 9,996.5               | 190.6        | -72.6        | -189.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 1.98            | 339.14      | 10,096.4              | 193.8        | -73.9        | -192.9                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 1.98            | 339.14      | 10,196.4              | 197.1        | -75.1        | -196.2                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 1.98            | 339.14      | 10,296.3              | 200.3        | -76.3        | -199.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 1.98            | 339.14      | 10,396.3              | 203.5        | -77.6        | -202.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 1.98            | 339.14      | 10,496.2              | 206.8        | -78.8        | -205.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 1.98            | 339.14      | 10,596.1              | 210.0        | -80.0        | -209.0                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Ruby 2 State Com  
Well: #708H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H  
TVD Reference: KB = 25' @ 3322.0usft  
MD Reference: KB = 25' @ 3322.0usft  
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              | 1.98            | 339.14      | 10,696.1              | 213.2        | -81.2        | -212.2                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0              | 1.98            | 339.14      | 10,796.0              | 216.5        | -82.5        | -215.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0              | 1.98            | 339.14      | 10,896.0              | 219.7        | -83.7        | -218.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0              | 1.98            | 339.14      | 10,995.9              | 222.9        | -84.9        | -221.9                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0              | 1.98            | 339.14      | 11,095.8              | 226.2        | -86.2        | -225.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0              | 1.98            | 339.14      | 11,195.8              | 229.4        | -87.4        | -228.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0              | 1.98            | 339.14      | 11,295.7              | 232.6        | -88.6        | -231.5                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0              | 1.98            | 339.14      | 11,395.7              | 235.8        | -89.9        | -234.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0              | 1.98            | 339.14      | 11,495.6              | 239.1        | -91.1        | -238.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0              | 1.98            | 339.14      | 11,595.5              | 242.3        | -92.3        | -241.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 1.98            | 339.14      | 11,695.5              | 245.5        | -93.6        | -244.4                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 1.98            | 339.14      | 11,795.4              | 248.8        | -94.8        | -247.6                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 1.98            | 339.14      | 11,895.4              | 252.0        | -96.0        | -250.8                  | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 1.98            | 339.14      | 11,995.3              | 255.2        | -97.2        | -254.0                  | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 1.98            | 339.14      | 12,095.2              | 258.5        | -98.5        | -257.3                  | 0.00                    | 0.00                   | 0.00                  |
| 12,142.9              | 1.98            | 339.14      | 12,138.1              | 259.8        | -99.0        | -258.6                  | 0.00                    | 0.00                   | 0.00                  |
| 12,150.0              | 1.22            | 325.02      | 12,145.2              | 260.0        | -99.1        | -258.8                  | 12.00                   | -10.74                 | -198.28               |
| 12,175.0              | 2.11            | 198.45      | 12,170.2              | 259.8        | -99.4        | -258.6                  | 12.00                   | 3.58                   | -506.30               |
| 12,200.0              | 5.04            | 187.27      | 12,195.2              | 258.3        | -99.7        | -257.1                  | 12.00                   | 11.73                  | -44.73                |
| 12,225.0              | 8.03            | 184.33      | 12,220.0              | 255.4        | -99.9        | -254.2                  | 12.00                   | 11.93                  | -11.73                |
| 12,250.0              | 11.02           | 182.98      | 12,244.6              | 251.3        | -100.2       | -250.1                  | 12.00                   | 11.97                  | -5.40                 |
| 12,275.0              | 14.01           | 182.21      | 12,269.0              | 245.9        | -100.4       | -244.7                  | 12.00                   | 11.98                  | -3.11                 |
| 12,300.0              | 17.01           | 181.70      | 12,293.1              | 239.2        | -100.7       | -238.0                  | 12.00                   | 11.99                  | -2.03                 |
| 12,325.0              | 20.01           | 181.34      | 12,316.8              | 231.3        | -100.9       | -230.1                  | 12.00                   | 11.99                  | -1.44                 |
| 12,350.0              | 23.01           | 181.07      | 12,340.1              | 222.1        | -101.1       | -220.9                  | 12.00                   | 11.99                  | -1.08                 |
| 12,375.0              | 26.01           | 180.86      | 12,362.8              | 211.8        | -101.2       | -210.5                  | 12.00                   | 11.99                  | -0.84                 |
| 12,400.0              | 29.00           | 180.69      | 12,385.0              | 200.2        | -101.4       | -199.0                  | 12.00                   | 12.00                  | -0.68                 |
| 12,425.0              | 32.00           | 180.55      | 12,406.5              | 187.5        | -101.5       | -186.3                  | 12.00                   | 12.00                  | -0.56                 |
| 12,450.0              | 35.00           | 180.43      | 12,427.4              | 173.7        | -101.6       | -172.5                  | 12.00                   | 12.00                  | -0.47                 |
| 12,475.0              | 38.00           | 180.33      | 12,447.5              | 158.9        | -101.7       | -157.6                  | 12.00                   | 12.00                  | -0.41                 |
| 12,500.0              | 41.00           | 180.24      | 12,466.8              | 143.0        | -101.8       | -141.7                  | 12.00                   | 12.00                  | -0.36                 |
| 12,525.0              | 44.00           | 180.16      | 12,485.2              | 126.1        | -101.9       | -124.8                  | 12.00                   | 12.00                  | -0.32                 |
| 12,550.0              | 47.00           | 180.09      | 12,502.7              | 108.2        | -101.9       | -107.0                  | 12.00                   | 12.00                  | -0.28                 |
| 12,575.0              | 50.00           | 180.03      | 12,519.3              | 89.5         | -101.9       | -88.3                   | 12.00                   | 12.00                  | -0.26                 |
| 12,600.0              | 53.00           | 179.97      | 12,534.8              | 70.0         | -101.9       | -68.7                   | 12.00                   | 12.00                  | -0.24                 |
| 12,625.0              | 56.00           | 179.91      | 12,549.4              | 49.6         | -101.9       | -48.4                   | 12.00                   | 12.00                  | -0.22                 |
| 12,650.0              | 59.00           | 179.86      | 12,562.8              | 28.5         | -101.9       | -27.3                   | 12.00                   | 12.00                  | -0.20                 |
| 12,675.0              | 62.00           | 179.82      | 12,575.1              | 6.8          | -101.8       | -5.5                    | 12.00                   | 12.00                  | -0.19                 |
| 12,700.0              | 65.00           | 179.77      | 12,586.3              | -15.6        | -101.7       | 16.8                    | 12.00                   | 12.00                  | -0.18                 |
| 12,725.0              | 68.00           | 179.73      | 12,596.2              | -38.5        | -101.6       | 39.7                    | 12.00                   | 12.00                  | -0.17                 |
| 12,750.0              | 71.00           | 179.69      | 12,605.0              | -61.9        | -101.5       | 63.2                    | 12.00                   | 12.00                  | -0.16                 |
| 12,775.0              | 74.00           | 179.65      | 12,612.5              | -85.8        | -101.4       | 87.0                    | 12.00                   | 12.00                  | -0.16                 |
| 12,800.0              | 77.00           | 179.61      | 12,618.8              | -110.0       | -101.2       | 111.2                   | 12.00                   | 12.00                  | -0.15                 |
| 12,825.0              | 80.00           | 179.57      | 12,623.7              | -134.5       | -101.0       | 135.7                   | 12.00                   | 12.00                  | -0.15                 |
| 12,850.0              | 83.00           | 179.53      | 12,627.4              | -159.2       | -100.9       | 160.4                   | 12.00                   | 12.00                  | -0.15                 |
| 12,875.0              | 86.00           | 179.50      | 12,629.8              | -184.1       | -100.6       | 185.3                   | 12.00                   | 12.00                  | -0.15                 |
| 12,900.0              | 89.00           | 179.46      | 12,630.9              | -209.0       | -100.4       | 210.2                   | 12.00                   | 12.00                  | -0.14                 |
| 12,908.4              | 90.00           | 179.45      | 12,631.0              | -217.4       | -100.3       | 218.6                   | 12.00                   | 12.00                  | -0.14                 |
| 13,000.0              | 90.00           | 179.45      | 12,631.0              | -309.0       | -99.5        | 310.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.00           | 179.45      | 12,631.0              | -409.0       | -98.5        | 410.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.00           | 179.45      | 12,631.0              | -509.0       | -97.5        | 510.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 179.45      | 12,631.0              | -609.0       | -96.6        | 610.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 179.45      | 12,631.0              | -709.0       | -95.6        | 710.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 179.45      | 12,631.0              | -809.0       | -94.7        | 810.1                   | 0.00                    | 0.00                   | 0.00                  |



## Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Ruby 2 State Com  
 Well: #708H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H  
 TVD Reference: KB = 25' @ 3322.0usft  
 MD Reference: KB = 25' @ 3322.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,600.0              | 90.00           | 179.45      | 12,631.0              | -909.0       | -93.7        | 910.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 179.45      | 12,631.0              | -1,009.0     | -92.7        | 1,010.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 179.45      | 12,631.0              | -1,109.0     | -91.8        | 1,110.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 179.45      | 12,631.0              | -1,209.0     | -90.8        | 1,210.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 179.45      | 12,631.0              | -1,309.0     | -89.9        | 1,310.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 179.45      | 12,631.0              | -1,409.0     | -88.9        | 1,410.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 179.45      | 12,631.0              | -1,509.0     | -87.9        | 1,509.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 179.45      | 12,631.0              | -1,609.0     | -87.0        | 1,609.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 179.45      | 12,631.0              | -1,709.0     | -86.0        | 1,709.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 179.45      | 12,631.0              | -1,809.0     | -85.1        | 1,809.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 179.45      | 12,631.0              | -1,909.0     | -84.1        | 1,909.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 179.45      | 12,631.0              | -2,009.0     | -83.1        | 2,009.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 179.45      | 12,631.0              | -2,109.0     | -82.2        | 2,109.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 179.45      | 12,631.0              | -2,209.0     | -81.2        | 2,209.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 179.45      | 12,631.0              | -2,309.0     | -80.3        | 2,309.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 179.45      | 12,631.0              | -2,408.9     | -79.3        | 2,409.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 179.45      | 12,631.0              | -2,508.9     | -78.3        | 2,509.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 179.45      | 12,631.0              | -2,608.9     | -77.4        | 2,609.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 179.45      | 12,631.0              | -2,708.9     | -76.4        | 2,709.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 179.45      | 12,631.0              | -2,808.9     | -75.5        | 2,809.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 179.45      | 12,631.0              | -2,908.9     | -74.5        | 2,909.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 179.45      | 12,631.0              | -3,008.9     | -73.5        | 3,009.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 179.45      | 12,631.0              | -3,108.9     | -72.6        | 3,109.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 179.45      | 12,631.0              | -3,208.9     | -71.6        | 3,209.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 179.45      | 12,631.0              | -3,308.9     | -70.7        | 3,309.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 179.45      | 12,631.0              | -3,408.9     | -69.7        | 3,409.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 179.45      | 12,631.0              | -3,508.9     | -68.7        | 3,509.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 179.45      | 12,631.0              | -3,608.9     | -67.8        | 3,609.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 179.45      | 12,631.0              | -3,708.9     | -66.8        | 3,709.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 179.45      | 12,631.0              | -3,808.9     | -65.9        | 3,809.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 179.45      | 12,631.0              | -3,908.9     | -64.9        | 3,909.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 179.45      | 12,631.0              | -4,008.9     | -63.9        | 4,009.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 179.45      | 12,631.0              | -4,108.9     | -63.0        | 4,109.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 179.45      | 12,631.0              | -4,208.9     | -62.0        | 4,209.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 179.45      | 12,631.0              | -4,308.9     | -61.1        | 4,309.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 179.45      | 12,631.0              | -4,408.9     | -60.1        | 4,409.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 179.45      | 12,631.0              | -4,508.8     | -59.1        | 4,509.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 179.45      | 12,631.0              | -4,608.8     | -58.2        | 4,609.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 179.45      | 12,631.0              | -4,708.8     | -57.2        | 4,709.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,423.2              | 90.00           | 179.45      | 12,631.0              | -4,732.0     | -57.0        | 4,732.3                 | 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        |
|--------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| FTP (Ruby 2 State Com)                                                                     | 0.00          | 0.00         | 12,631.0   | -18.0        | -102.0       | 393,552.00      | 819,452.00     | 32° 4' 43.580 N | 103° 26' 7.450 W |
| - hit/miss target                                                                          |               |              |            |              |              |                 |                |                 |                  |
| - plan misses target center by 40.0usft at 12720.0usft MD (12594.3 TVD, -33.9 N, -101.7 E) |               |              |            |              |              |                 |                |                 |                  |
| - Shape                                                                                    |               |              |            |              |              |                 |                |                 |                  |
| - Point                                                                                    |               |              |            |              |              |                 |                |                 |                  |
| PBHL (Ruby 2 State Cor)                                                                    | 0.00          | 0.00         | 12,631.0   | -4,732.0     | -57.0        | 388,838.00      | 819,497.00     | 32° 3' 56.931 N | 103° 26' 7.383 W |
| - plan hits target center                                                                  |               |              |            |              |              |                 |                |                 |                  |
| - Point                                                                                    |               |              |            |              |              |                 |                |                 |                  |



## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Ruby 2 State Com  
**Well:** #708H  
**Wellbore:** OH  
**Design:** Plan #0.1

**Local Co-ordinate Reference:** Well #708H  
**TVD Reference:** KB = 25' @ 3322.0usft  
**MD Reference:** KB = 25' @ 3322.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature