

HOBBS OCD  
OCT 17 2018  
RECEIVED



Lea County, NM (NAD 83 NME)  
Yarrow 32 State #701H  
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: #701H  
KB = 25 @ 3691.0usft 3668.0  
Northing 457304.00 Easting 771862.00 Latitude 32° 15' 18.011 N Longitude 103° 35' 18.414 W

**Azimuths to Grid North**  
True North: -0.40°  
Magnetic North: 6.42°

**Magnetic Field**  
Strength: 47817.8nT  
Dip Angle: 60.07°  
Date: 10/10/2018  
Model: IGRF2018

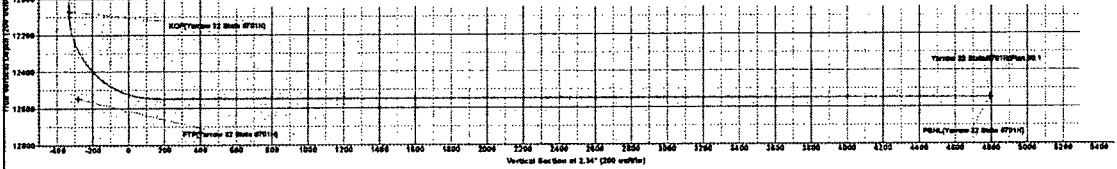
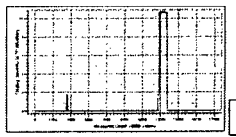
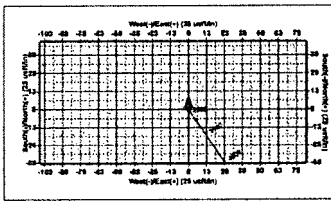
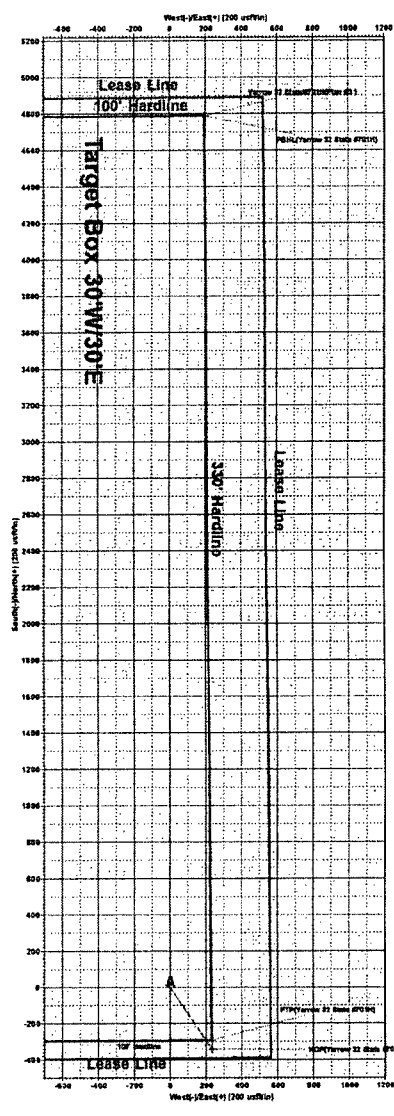
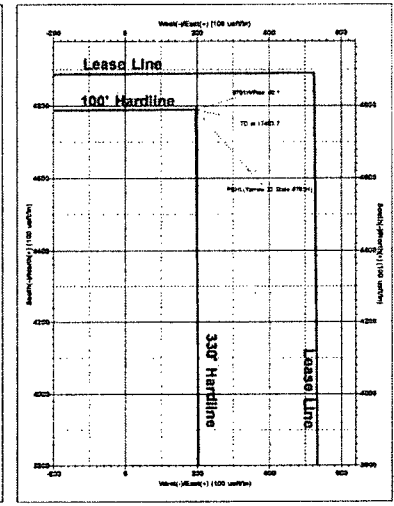
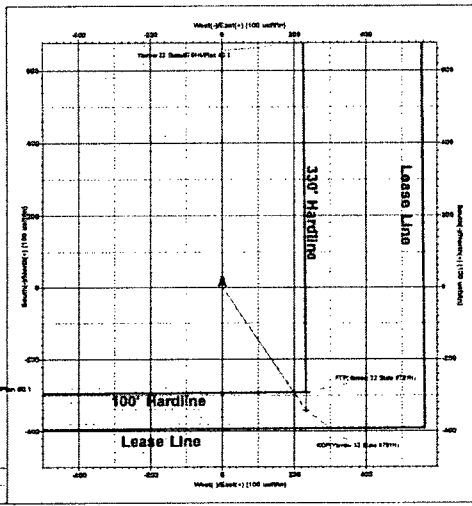
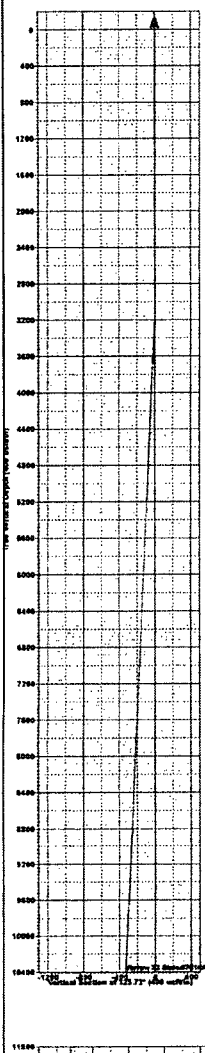
To convert a Magnetic Direction to a Grid Direction, Add 6.42°  
To convert a Magnetic Direction to a True Direction, Add 6.82° East  
To convert a True Direction to a Grid Direction, Subtract 0.40°

| SECTION DETAILS |         |       |        |         |        |       |       |        |                             |
|-----------------|---------|-------|--------|---------|--------|-------|-------|--------|-----------------------------|
| Sec             | MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W | Dleg  | TFace  | VSect                       |
| 1               | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.00  | 0.00  | 0.00   | 0.0                         |
| 2               | 3000.0  | 0.00  | 0.00   | 3000.0  | 0.0    | 0.00  | 0.00  | 0.00   | 0.0                         |
| 3               | 3132.5  | 2.65  | 145.73 | 3132.5  | -2.5   | 1.7   | 2.00  | 145.73 | -2.5                        |
| 4               | 11947.5 | 2.65  | 145.73 | 11938.0 | -339.5 | 231.3 | 0.00  | 0.00   | -329.7                      |
| 5               | 12080.0 | 0.00  | 0.00   | 12070.5 | -342.0 | 233.0 | 2.00  | 180.00 | -332.2                      |
| 6               | 12830.0 | 90.00 | 359.59 | 12548.0 | 135.4  | 229.6 | 12.00 | 359.59 | 144.7                       |
| 7               | 17483.7 | 90.00 | 359.59 | 12548.0 | 4789.0 | 196.0 | 0.00  | 0.00   | 4793.0                      |
|                 |         |       |        |         |        |       |       |        | KOP(Yarrow 32 State #701H)  |
|                 |         |       |        |         |        |       |       |        | PBHL(Yarrow 32 State #701H) |

CASING DETAILS  
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                        | TVD     | +N/-S  | +E/-W | Northing  | Easting   |
|-----------------------------|---------|--------|-------|-----------|-----------|
| KOP(Yarrow 32 State #701H)  | 12070.5 | -342.0 | 233.0 | 454942.00 | 772095.00 |
| PBHL(Yarrow 32 State #701H) | 12548.0 | 4789.0 | 196.0 | 457304.00 | 772095.00 |
| FTY(Yarrow 32 State #701H)  | 12548.0 | -292.0 | 233.0 | 457012.00 | 772095.00 |





## **EOG Resources - Midland**

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

**Yarrow 32 State**

**#701H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**10 October, 2018**



# Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.14                 | <b>Local Co-ordinate Reference:</b> | Well #701H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3691.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3691.0usft |
| <b>Site:</b>     | Yarrow 32 State             | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #701H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

|                    |                             |                      |                |
|--------------------|-----------------------------|----------------------|----------------|
| <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>                  | Yarrow 32 State  |                     |                  |                          |                   |
| <b>Site Position:</b>        | <b>Northing:</b> | 457,304.00 usft     | <b>Latitude:</b> | 32° 15' 18.011 N         |                   |
| <b>From:</b>                 | Map              | <b>Easting:</b>     | 771,862.00 usft  | <b>Longitude:</b>        | 103° 35' 15.414 W |
| <b>Position Uncertainty:</b> | 0.0 usft         | <b>Slot Radius:</b> | 13-3/16 "        | <b>Grid Convergence:</b> | 0.40 °            |

|                             |              |                            |                  |                      |                   |                   |
|-----------------------------|--------------|----------------------------|------------------|----------------------|-------------------|-------------------|
| <b>Well</b>                 | #701H        |                            |                  |                      |                   |                   |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.0 usft                   | <b>Northing:</b> | 457,304.00 usft      | <b>Latitude:</b>  | 32° 15' 18.011 N  |
|                             | <b>+E/-W</b> | 0.0 usft                   | <b>Easting:</b>  | 771,862.00 usft      | <b>Longitude:</b> | 103° 35' 15.414 W |
| <b>Position Uncertainty</b> | 0.0 usft     | <b>Wellhead Elevation:</b> |                  | <b>Ground Level:</b> | 3,666.0 usft      |                   |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF2015          | 10/10/2018         | 6.82               | 60.07            | 47,817.80811070       |

|                          |                         |              |                      |                  |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| <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>         | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)               | (°)              |
|                          | 0.0                     | 0.0          | 0.0                  | 2.34             |

|                                 |                 |                          |                     |                |
|---------------------------------|-----------------|--------------------------|---------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>     | 10/10/2018               |                     |                |
| <b>Depth From</b>               | <b>Depth To</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |
| (usft)                          | (usft)          |                          |                     |                |
| 1                               | 0.0             | 17,483.7 Plan #0.1 (OH)  | MWD                 |                |
|                                 |                 |                          | OWSG 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>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(usft)</b> | <b>(usft)</b> | <b>Rate</b>        | <b>Rate</b>        | <b>Rate</b>        | <b>(°)</b> |                      |
| <b>(usft)</b>        |                    |                | <b>(usft)</b>   |               |               | <b>(°/100usft)</b> | <b>(°/100usft)</b> | <b>(°/100usft)</b> |            |                      |
| 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       |                      |
| 3,132.5              | 2.65               | 145.73         | 3,132.5         | -2.5          | 1.7           | 2.00               | 2.00               | 0.00               | 145.73     |                      |
| 11,947.5             | 2.65               | 145.73         | 11,938.0        | -339.5        | 231.3         | 0.00               | 0.00               | 0.00               | 0.00       |                      |
| 12,080.0             | 0.00               | 0.00           | 12,070.5        | -342.0        | 233.0         | 2.00               | -2.00              | 0.00               | 180.00     | KOP(Yarrow 32 State  |
| 12,830.0             | 90.00              | 359.59         | 12,548.0        | 135.4         | 229.6         | 12.00              | 12.00              | -0.06              | 359.59     |                      |
| 17,483.7             | 90.00              | 359.59         | 12,548.0        | 4,789.0       | 196.0         | 0.00               | 0.00               | 0.00               | 0.00       | PBHL(Yarrow 32 State |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Yarrow 32 State  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25 @ 3691.0usft  
 MD Reference: KB = 25 @ 3691.0usft  
 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               | 2.00            | 145.73      | 3,100.0               | -1.4         | 1.0          | -1.4                    | 2.00                    | 2.00                   | 0.00                  |
| 3,132.5               | 2.65            | 145.73      | 3,132.5               | -2.5         | 1.7          | -2.5                    | 2.00                    | 2.00                   | 0.00                  |
| 3,200.0               | 2.65            | 145.73      | 3,199.9               | -5.1         | 3.5          | -5.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 2.65            | 145.73      | 3,299.8               | -8.9         | 6.1          | -8.7                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 2.65            | 145.73      | 3,399.7               | -12.8        | 8.7          | -12.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 2.65            | 145.73      | 3,499.6               | -16.6        | 11.3         | -16.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 2.65            | 145.73      | 3,599.5               | -20.4        | 13.9         | -19.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 2.65            | 145.73      | 3,699.3               | -24.2        | 16.5         | -23.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 2.65            | 145.73      | 3,799.2               | -28.0        | 19.1         | -27.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 2.65            | 145.73      | 3,899.1               | -31.9        | 21.7         | -31.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 2.65            | 145.73      | 3,999.0               | -35.7        | 24.3         | -34.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 2.65            | 145.73      | 4,098.9               | -39.5        | 26.9         | -38.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 2.65            | 145.73      | 4,198.8               | -43.3        | 29.5         | -42.1                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 2.65            | 145.73      | 4,298.7               | -47.2        | 32.1         | -45.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 2.65            | 145.73      | 4,398.6               | -51.0        | 34.7         | -49.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 2.65            | 145.73      | 4,498.5               | -54.8        | 37.3         | -53.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 2.65            | 145.73      | 4,598.4               | -58.6        | 39.9         | -56.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 2.65            | 145.73      | 4,698.3               | -62.4        | 42.5         | -60.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 2.65            | 145.73      | 4,798.2               | -66.3        | 45.1         | -64.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 2.65            | 145.73      | 4,898.1               | -70.1        | 47.8         | -68.1                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 2.65            | 145.73      | 4,998.0               | -73.9        | 50.4         | -71.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 2.65            | 145.73      | 5,097.8               | -77.7        | 53.0         | -75.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 2.65            | 145.73      | 5,197.7               | -81.6        | 55.6         | -79.2                   | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

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 Site: Yarrow 32 State  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25 @ 3691.0usft  
 MD Reference: KB = 25 @ 3691.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,300.0               | 2.65            | 145.73      | 5,297.6               | -85.4        | 58.2         | -82.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 2.65            | 145.73      | 5,397.5               | -89.2        | 60.8         | -86.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 2.65            | 145.73      | 5,497.4               | -93.0        | 63.4         | -90.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 2.65            | 145.73      | 5,597.3               | -96.8        | 66.0         | -94.1                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 2.65            | 145.73      | 5,697.2               | -100.7       | 68.6         | -97.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 2.65            | 145.73      | 5,797.1               | -104.5       | 71.2         | -101.5                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 2.65            | 145.73      | 5,897.0               | -108.3       | 73.8         | -105.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 2.65            | 145.73      | 5,996.9               | -112.1       | 76.4         | -108.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 2.65            | 145.73      | 6,096.8               | -116.0       | 79.0         | -112.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 2.65            | 145.73      | 6,196.7               | -119.8       | 81.6         | -116.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 2.65            | 145.73      | 6,296.6               | -123.6       | 84.2         | -120.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 2.65            | 145.73      | 6,396.5               | -127.4       | 86.8         | -123.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 2.65            | 145.73      | 6,496.3               | -131.2       | 89.4         | -127.5                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 2.65            | 145.73      | 6,596.2               | -135.1       | 92.0         | -131.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 2.65            | 145.73      | 6,696.1               | -138.9       | 94.6         | -134.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 2.65            | 145.73      | 6,796.0               | -142.7       | 97.2         | -138.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 2.65            | 145.73      | 6,895.9               | -146.5       | 99.8         | -142.3                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 2.65            | 145.73      | 6,995.8               | -150.4       | 102.4        | -146.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 2.65            | 145.73      | 7,095.7               | -154.2       | 105.0        | -149.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 2.65            | 145.73      | 7,195.6               | -158.0       | 107.6        | -153.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 2.65            | 145.73      | 7,295.5               | -161.8       | 110.2        | -157.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 2.65            | 145.73      | 7,395.4               | -165.6       | 112.9        | -160.9                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 2.65            | 145.73      | 7,495.3               | -169.5       | 115.5        | -164.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 2.65            | 145.73      | 7,595.2               | -173.3       | 118.1        | -168.3                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 2.65            | 145.73      | 7,695.1               | -177.1       | 120.7        | -172.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 2.65            | 145.73      | 7,795.0               | -180.9       | 123.3        | -175.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 2.65            | 145.73      | 7,894.9               | -184.8       | 125.9        | -179.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 2.65            | 145.73      | 7,994.7               | -188.6       | 128.5        | -183.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 2.65            | 145.73      | 8,094.6               | -192.4       | 131.1        | -186.9                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 2.65            | 145.73      | 8,194.5               | -196.2       | 133.7        | -190.6                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 2.65            | 145.73      | 8,294.4               | -200.0       | 136.3        | -194.3                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 2.65            | 145.73      | 8,394.3               | -203.9       | 138.9        | -198.0                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 2.65            | 145.73      | 8,494.2               | -207.7       | 141.5        | -201.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 2.65            | 145.73      | 8,594.1               | -211.5       | 144.1        | -205.4                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 2.65            | 145.73      | 8,694.0               | -215.3       | 146.7        | -209.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 2.65            | 145.73      | 8,793.9               | -219.2       | 149.3        | -212.9                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 2.65            | 145.73      | 8,893.8               | -223.0       | 151.9        | -216.6                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 2.65            | 145.73      | 8,993.7               | -226.8       | 154.5        | -220.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 2.65            | 145.73      | 9,093.6               | -230.6       | 157.1        | -224.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 2.65            | 145.73      | 9,193.5               | -234.4       | 159.7        | -227.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 2.65            | 145.73      | 9,293.4               | -238.3       | 162.3        | -231.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 2.65            | 145.73      | 9,393.2               | -242.1       | 164.9        | -235.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 2.65            | 145.73      | 9,493.1               | -245.9       | 167.5        | -238.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 2.65            | 145.73      | 9,593.0               | -249.7       | 170.1        | -242.6                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 2.65            | 145.73      | 9,692.9               | -253.6       | 172.7        | -246.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 2.65            | 145.73      | 9,792.8               | -257.4       | 175.4        | -250.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 2.65            | 145.73      | 9,892.7               | -261.2       | 178.0        | -253.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 2.65            | 145.73      | 9,992.6               | -265.0       | 180.6        | -257.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 2.65            | 145.73      | 10,092.5              | -268.9       | 183.2        | -261.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 2.65            | 145.73      | 10,192.4              | -272.7       | 185.8        | -264.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 2.65            | 145.73      | 10,292.3              | -276.5       | 188.4        | -268.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 2.65            | 145.73      | 10,392.2              | -280.3       | 191.0        | -272.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 2.65            | 145.73      | 10,492.1              | -284.1       | 193.6        | -276.0                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 2.65            | 145.73      | 10,592.0              | -288.0       | 196.2        | -279.7                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Yarrow 32 State  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25 @ 3691.0usft  
 MD Reference: KB = 25 @ 3691.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,700.0                          | 2.65            | 145.73      | 10,691.9              | -291.8       | 198.8        | -283.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                          | 2.65            | 145.73      | 10,791.7              | -295.6       | 201.4        | -287.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                          | 2.65            | 145.73      | 10,891.6              | -299.4       | 204.0        | -290.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                          | 2.65            | 145.73      | 10,991.5              | -303.3       | 206.6        | -294.5                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                          | 2.65            | 145.73      | 11,091.4              | -307.1       | 209.2        | -298.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                          | 2.65            | 145.73      | 11,191.3              | -310.9       | 211.8        | -302.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                          | 2.65            | 145.73      | 11,291.2              | -314.7       | 214.4        | -305.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                          | 2.65            | 145.73      | 11,391.1              | -318.5       | 217.0        | -309.4                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                          | 2.65            | 145.73      | 11,491.0              | -322.4       | 219.6        | -313.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                          | 2.65            | 145.73      | 11,590.9              | -326.2       | 222.2        | -316.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                          | 2.65            | 145.73      | 11,690.8              | -330.0       | 224.8        | -320.5                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                          | 2.65            | 145.73      | 11,790.7              | -333.8       | 227.4        | -324.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                          | 2.65            | 145.73      | 11,890.6              | -337.7       | 230.0        | -328.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,947.5                          | 2.65            | 145.73      | 11,938.0              | -339.5       | 231.3        | -329.7                  | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                          | 1.60            | 145.73      | 11,990.5              | -341.1       | 232.4        | -331.3                  | 2.00                    | -2.00                  | 0.00                  |
| 12,080.0                          | 0.00            | 0.00        | 12,070.5              | -342.0       | 233.0        | -332.2                  | 2.00                    | -2.00                  | 0.00                  |
| <b>KOP(Yarrow 32 State #701H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,100.0                          | 2.40            | 359.59      | 12,090.5              | -341.6       | 233.0        | -331.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,125.0                          | 5.40            | 359.59      | 12,115.4              | -339.9       | 233.0        | -330.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,150.0                          | 8.40            | 359.59      | 12,140.2              | -336.9       | 233.0        | -327.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,175.0                          | 11.40           | 359.59      | 12,164.8              | -332.6       | 232.9        | -322.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,200.0                          | 14.40           | 359.59      | 12,189.2              | -327.0       | 232.9        | -317.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,225.0                          | 17.40           | 359.59      | 12,213.3              | -320.2       | 232.8        | -310.4                  | 12.00                   | 12.00                  | 0.00                  |
| 12,250.0                          | 20.40           | 359.59      | 12,236.9              | -312.1       | 232.8        | -302.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,275.0                          | 23.40           | 359.59      | 12,260.1              | -302.7       | 232.7        | -293.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,300.0                          | 26.40           | 359.59      | 12,282.8              | -292.2       | 232.6        | -282.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,325.0                          | 29.40           | 359.59      | 12,304.9              | -280.5       | 232.6        | -270.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,350.0                          | 32.40           | 359.59      | 12,326.3              | -267.7       | 232.5        | -258.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,375.0                          | 35.40           | 359.59      | 12,347.1              | -253.7       | 232.4        | -244.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,400.0                          | 38.40           | 359.59      | 12,367.1              | -238.7       | 232.3        | -229.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,425.0                          | 41.40           | 359.59      | 12,386.2              | -222.7       | 232.1        | -213.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,450.0                          | 44.40           | 359.59      | 12,404.5              | -205.7       | 232.0        | -196.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,475.0                          | 47.40           | 359.59      | 12,421.9              | -187.7       | 231.9        | -178.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,479.3                          | 47.91           | 359.59      | 12,424.8              | -184.6       | 231.9        | -174.9                  | 12.00                   | 12.00                  | 0.00                  |
| <b>FTP(Yarrow 32 State #701H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,500.0                          | 50.40           | 359.59      | 12,438.4              | -168.9       | 231.8        | -159.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,525.0                          | 53.40           | 359.59      | 12,453.8              | -149.2       | 231.6        | -139.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,550.0                          | 56.40           | 359.59      | 12,468.2              | -128.8       | 231.5        | -119.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,575.0                          | 59.40           | 359.59      | 12,481.5              | -107.6       | 231.3        | -98.1                   | 12.00                   | 12.00                  | 0.00                  |
| 12,600.0                          | 62.40           | 359.59      | 12,493.6              | -85.8        | 231.2        | -76.2                   | 12.00                   | 12.00                  | 0.00                  |
| 12,625.0                          | 65.40           | 359.59      | 12,504.6              | -63.3        | 231.0        | -53.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,650.0                          | 68.40           | 359.59      | 12,514.4              | -40.3        | 230.8        | -30.9                   | 12.00                   | 12.00                  | 0.00                  |
| 12,675.0                          | 71.40           | 359.59      | 12,523.0              | -16.9        | 230.7        | -7.4                    | 12.00                   | 12.00                  | 0.00                  |
| 12,700.0                          | 74.40           | 359.59      | 12,530.4              | 7.0          | 230.5        | 16.4                    | 12.00                   | 12.00                  | 0.00                  |
| 12,725.0                          | 77.40           | 359.59      | 12,536.5              | 31.3         | 230.3        | 40.7                    | 12.00                   | 12.00                  | 0.00                  |
| 12,750.0                          | 80.40           | 359.59      | 12,541.3              | 55.8         | 230.1        | 65.2                    | 12.00                   | 12.00                  | 0.00                  |
| 12,775.0                          | 83.40           | 359.59      | 12,544.8              | 80.5         | 230.0        | 89.9                    | 12.00                   | 12.00                  | 0.00                  |
| 12,800.0                          | 86.40           | 359.59      | 12,547.0              | 105.4        | 229.8        | 114.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,825.0                          | 89.40           | 359.59      | 12,547.9              | 130.4        | 229.6        | 139.7                   | 12.00                   | 12.00                  | 0.00                  |
| 12,830.0                          | 90.00           | 359.59      | 12,548.0              | 135.4        | 229.6        | 144.7                   | 12.00                   | 12.00                  | 0.00                  |
| 12,900.0                          | 90.00           | 359.59      | 12,548.0              | 205.4        | 229.1        | 214.6                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                          | 90.00           | 359.59      | 12,548.0              | 305.4        | 228.3        | 314.5                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                          | 90.00           | 359.59      | 12,548.0              | 405.4        | 227.6        | 414.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                          | 90.00           | 359.59      | 12,548.0              | 505.4        | 226.9        | 514.3                   | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Yarrow 32 State  
 Well: #701H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H  
 TVD Reference: KB = 25 @ 3691.0usft  
 MD Reference: KB = 25 @ 3691.0usft  
 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           | 359.59      | 12,548.0              | 605.4        | 226.2        | 614.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 359.59      | 12,548.0              | 705.4        | 225.4        | 714.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 359.59      | 12,548.0              | 805.4        | 224.7        | 813.9                   | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 359.59      | 12,548.0              | 905.4        | 224.0        | 913.8                   | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 359.59      | 12,548.0              | 1,005.4      | 223.3        | 1,013.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 359.59      | 12,548.0              | 1,105.4      | 222.6        | 1,113.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 359.59      | 12,548.0              | 1,205.4      | 221.8        | 1,213.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 359.59      | 12,548.0              | 1,305.4      | 221.1        | 1,313.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 359.59      | 12,548.0              | 1,405.4      | 220.4        | 1,413.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 359.59      | 12,548.0              | 1,505.4      | 219.7        | 1,513.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 359.59      | 12,548.0              | 1,605.4      | 219.0        | 1,613.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 359.59      | 12,548.0              | 1,705.4      | 218.2        | 1,712.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 359.59      | 12,548.0              | 1,805.4      | 217.5        | 1,812.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 359.59      | 12,548.0              | 1,905.4      | 216.8        | 1,912.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 359.59      | 12,548.0              | 2,005.4      | 216.1        | 2,012.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 359.59      | 12,548.0              | 2,105.4      | 215.4        | 2,112.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 359.59      | 12,548.0              | 2,205.4      | 214.6        | 2,212.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 359.59      | 12,548.0              | 2,305.4      | 213.9        | 2,312.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 359.59      | 12,548.0              | 2,405.4      | 213.2        | 2,412.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 359.59      | 12,548.0              | 2,505.4      | 212.5        | 2,512.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 359.59      | 12,548.0              | 2,605.4      | 211.7        | 2,611.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 359.59      | 12,548.0              | 2,705.4      | 211.0        | 2,711.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 359.59      | 12,548.0              | 2,805.4      | 210.3        | 2,811.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 359.59      | 12,548.0              | 2,905.4      | 209.6        | 2,911.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 359.59      | 12,548.0              | 3,005.4      | 208.9        | 3,011.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 359.59      | 12,548.0              | 3,105.3      | 208.1        | 3,111.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 359.59      | 12,548.0              | 3,205.3      | 207.4        | 3,211.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 359.59      | 12,548.0              | 3,305.3      | 206.7        | 3,311.0                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 359.59      | 12,548.0              | 3,405.3      | 206.0        | 3,410.9                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 359.59      | 12,548.0              | 3,505.3      | 205.3        | 3,510.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 359.59      | 12,548.0              | 3,605.3      | 204.5        | 3,610.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 359.59      | 12,548.0              | 3,705.3      | 203.8        | 3,710.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 359.59      | 12,548.0              | 3,805.3      | 203.1        | 3,810.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 359.59      | 12,548.0              | 3,905.3      | 202.4        | 3,910.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 359.59      | 12,548.0              | 4,005.3      | 201.7        | 4,010.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 359.59      | 12,548.0              | 4,105.3      | 200.9        | 4,110.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 359.59      | 12,548.0              | 4,205.3      | 200.2        | 4,210.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 359.59      | 12,548.0              | 4,305.3      | 199.5        | 4,309.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 359.59      | 12,548.0              | 4,405.3      | 198.8        | 4,409.8                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 359.59      | 12,548.0              | 4,505.3      | 198.0        | 4,509.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 359.59      | 12,548.0              | 4,605.3      | 197.3        | 4,609.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 359.59      | 12,548.0              | 4,705.3      | 196.6        | 4,709.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,483.7              | 90.00           | 359.59      | 12,548.0              | 4,789.0      | 196.0        | 4,793.0                 | 0.00                    | 0.00                   | 0.00                  |

PBHL(Yarrow 32 State #701H)



## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Yarrow 32 State  
**Well:** #701H  
**Wellbore:** OH  
**Design:** Plan #0.1

**Local Co-ordinate Reference:** Well #701H  
**TVD Reference:** KB = 25 @ 3691.0usft  
**MD Reference:** KB = 25 @ 3691.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

| Design Targets                                                                              |           |          |          |         |        |            |            |                  |                   |
|---------------------------------------------------------------------------------------------|-----------|----------|----------|---------|--------|------------|------------|------------------|-------------------|
| Target Name                                                                                 | Dip Angle | Dip Dir. | TVD      | +N/-S   | +E/-W  | Northing   | Easting    | Latitude         | Longitude         |
| - hit/miss target                                                                           | (°)       | (°)      | (usft)   | (usft)  | (usft) | (usft)     | (usft)     |                  |                   |
| - Shape                                                                                     |           |          |          |         |        |            |            |                  |                   |
| KOP(Yarrow 32 State #7                                                                      | 0.00      | 0.00     | 12,070.5 | -342.0  | 233.0  | 456,962.00 | 772,095.00 | 32° 15' 14.611 N | 103° 35' 12.729 W |
| - plan hits target center                                                                   |           |          |          |         |        |            |            |                  |                   |
| - Point                                                                                     |           |          |          |         |        |            |            |                  |                   |
| FTP(Yarrow 32 State #7                                                                      | 0.00      | 0.00     | 12,548.0 | -292.0  | 233.0  | 457,012.00 | 772,095.00 | 32° 15' 15.105 N | 103° 35' 12.725 W |
| - plan misses target center by 163.4usft at 12479.3usft MD (12424.8 TVD, -184.6 N, 231.9 E) |           |          |          |         |        |            |            |                  |                   |
| - Point                                                                                     |           |          |          |         |        |            |            |                  |                   |
| PBHL(Yarrow 32 State #                                                                      | 0.00      | 0.00     | 12,548.0 | 4,789.0 | 196.0  | 462,093.00 | 772,058.00 | 32° 16' 5.385 N  | 103° 35' 12.744 W |
| - plan hits target center                                                                   |           |          |          |         |        |            |            |                  |                   |
| - Point                                                                                     |           |          |          |         |        |            |            |                  |                   |