

HOBBS OLD  
NOV 27 2018  
RECEIVED



Lea County, NM (NAD 83 NME)

Caravan 28 State Com #701H

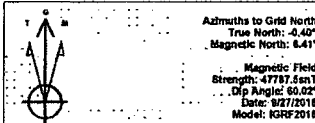
Plan #0.2

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 @ 3544.0ush  
Northing 435168.00 Easting 774737.00 Latitude 32° 11' 38.701 N Longitude 103° 34' 43.738 W



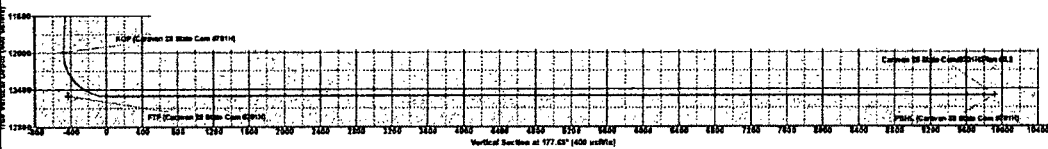
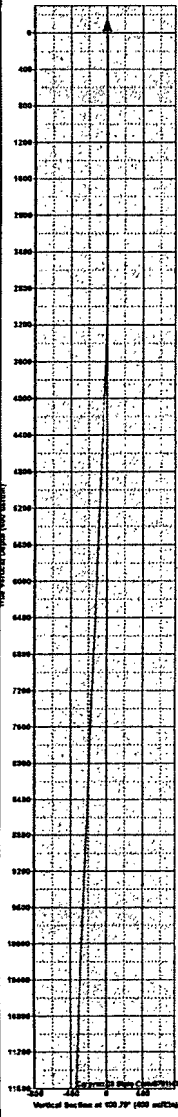
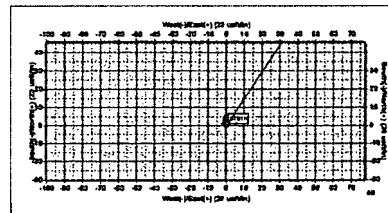
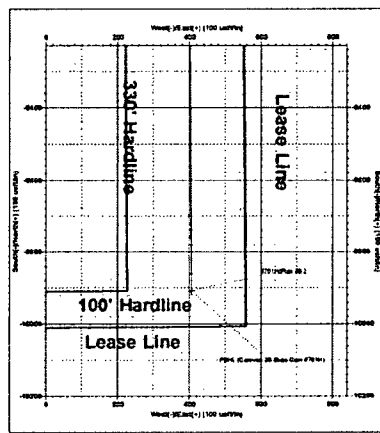
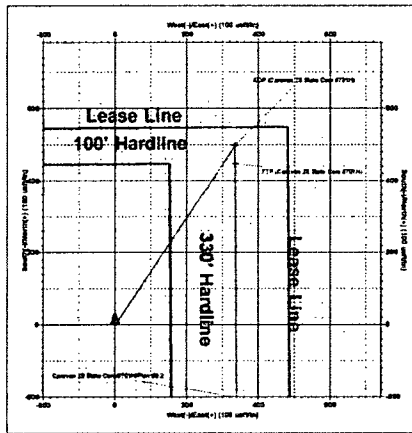
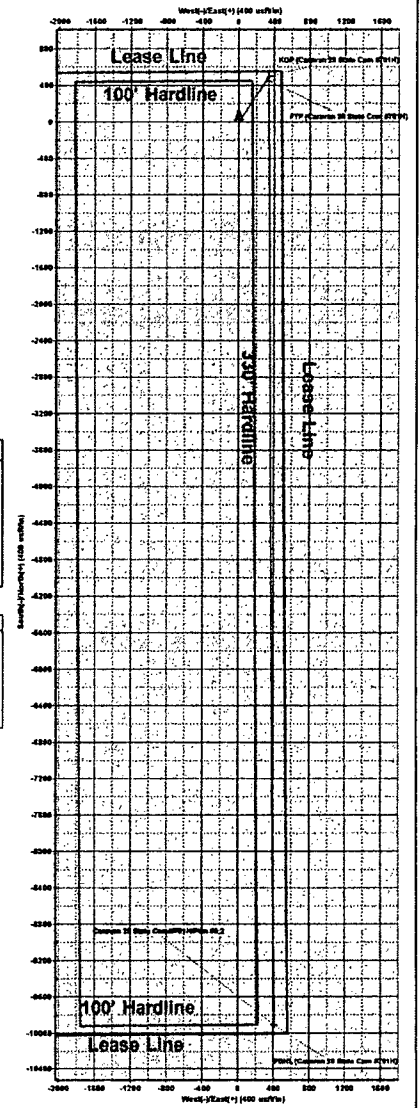
To convert a Magnetic Direction to a Grid Direction, Add 6.41°  
To convert a Magnetic Direction to a True Direction, Add 6.82° East  
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N-S    | +E-W  | Dlog  | TFace  | VSect  | Target                            |
|-----|---------|-------|--------|---------|---------|-------|-------|--------|--------|-----------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                                   |
| 2   | 3000.0  | 0.00  | 0.00   | 3000.0  | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                                   |
| 3   | 3195.0  | 3.90  | 33.85  | 3194.9  | 5.5     | 3.7   | 2.00  | 33.85  | -5.4   |                                   |
| 4   | 11815.8 | 3.80  | 33.85  | 11795.6 | 492.5   | 330.3 | 0.00  | 0.00   | -478.6 |                                   |
| 5   | 12010.8 | 0.00  | 0.00   | 11990.5 | 498.0   | 334.0 | 2.00  | 180.00 | -483.9 | KOP (Caravan 28 State Com #701H)  |
| 6   | 12780.8 | 90.00 | 179.60 | 12468.0 | 20.5    | 337.3 | 12.00 | 179.60 | -6.7   |                                   |
| 7   | 22689.8 | 90.00 | 179.60 | 12468.0 | -9908.0 | 406.0 | 0.00  | 0.00   | 9916.3 | PBHL (Caravan 28 State Com #701H) |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                              | TVD     | +N-S    | +E-W  | Northing  | Easting   |
|-----------------------------------|---------|---------|-------|-----------|-----------|
| KOP (Caravan 28 State Com #701H)  | 11990.5 | 498.0   | 334.0 | 435716.00 | 775071.00 |
| FTP (Caravan 28 State Com #701H)  | 12468.0 | 448.0   | 334.0 | 435716.00 | 775071.00 |
| PBHL (Caravan 28 State Com #701H) | 12468.0 | -9908.0 | 406.0 | 425340.00 | 775143.00 |





## **EOG Resources - Midland**

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

**Caravan 28 State Com**

**#701H**

**OH**

**Plan: Plan #0.2**

## **Standard Planning Report**

**21 November, 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 @ 3544.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3544.0usft |
| <b>Site:</b>     | Caravan 28 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #701H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.2                   |                                     |                      |

|                    |                             |                      |                |
|--------------------|-----------------------------|----------------------|----------------|
| <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     |                      |                |

|                       |          |                      |                 |                   |                   |
|-----------------------|----------|----------------------|-----------------|-------------------|-------------------|
| Site                  |          | Caravan 28 State Com |                 |                   |                   |
| Site Position:        |          | Northing:            | 435,288.00 usft | Latitude:         | 32° 11' 39.963 N  |
| From:                 | Map      | Easting:             | 774,678.00 usft | Longitude:        | 103° 34' 44.423 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:         | 13-3/16 "       | Grid Convergence: | 0.40 °            |

|                      |       |            |                     |                 |               |                   |
|----------------------|-------|------------|---------------------|-----------------|---------------|-------------------|
| Well                 | #701H |            |                     |                 |               |                   |
| Well Position        | +N/-S | -20.0 usft | Northing:           | 435,268.00 usft | Latitude:     | 32° 11' 39.761 N  |
|                      | +E/-W | 59.0 usft  | Easting:            | 774,737.00 usft | Longitude:    | 103° 34' 43.738 W |
| Position Uncertainty |       | 0.0 usft   | Wellhead Elevation: |                 | Ground Level: | 3,519.0 usft      |

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Wellbore</b>  | OH                |                    |                            |                          |                                |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | IGRF2015          | 9/27/2018          | 6.82                       | 60.02                    | 47,787.54720490                |

|                          |                                    |                         |                         |                          |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|
| <b>Design</b>            | Plan #0.2                          |                         |                         |                          |
| <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)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |
|                          | 0.0                                | 0.0                     | 0.0                     | 177.65                   |

|                                 |                            |                          |                     |                |
|---------------------------------|----------------------------|--------------------------|---------------------|----------------|
| <b>Plan Survey Tool Program</b> | Date 11/21/2018            |                          |                     |                |
| <b>Depth From<br/>(usft)</b>    | <b>Depth To<br/>(usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |
| 1                               | 0.0                        | 22,689.5 Plan #0.2 (OH)  | MWD                 |                |
|                                 |                            |                          | OWSG MWD - Standard |                |

|                                      |                            |                        |                                      |                         |                         |                                        |                                       |                                      |                    |                     |
|--------------------------------------|----------------------------|------------------------|--------------------------------------|-------------------------|-------------------------|----------------------------------------|---------------------------------------|--------------------------------------|--------------------|---------------------|
| <b>Plan Sections</b>                 |                            |                        |                                      |                         |                         |                                        |                                       |                                      |                    |                     |
| <b>Measured<br/>Depth<br/>(usft)</b> | <b>Inclination<br/>(°)</b> | <b>Azimuth<br/>(°)</b> | <b>Vertical<br/>Depth<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Dogleg<br/>Rate<br/>(°/100usft)</b> | <b>Build<br/>Rate<br/>(°/100usft)</b> | <b>Turn<br/>Rate<br/>(°/100usft)</b> | <b>TFO<br/>(°)</b> | <b>Target</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               |                     |
| 3,195.0                              | 3.90                       | 33.85                  | 3,194.9                              | 5.5                     | 3.7                     | 2.00                                   | 2.00                                  | 0.00                                 | 33.85              |                     |
| 11,815.8                             | 3.90                       | 33.85                  | 11,795.6                             | 492.5                   | 330.3                   | 0.00                                   | 0.00                                  | 0.00                                 | 0.00               |                     |
| 12,010.8                             | 0.00                       | 0.00                   | 11,990.5                             | 498.0                   | 334.0                   | 2.00                                   | -2.00                                 | 0.00                                 | 180.00             | KOP (Caravan 28 Sta |
| 12,760.8                             | 90.00                      | 179.60                 | 12,468.0                             | 20.5                    | 337.3                   | 12.00                                  | 12.00                                 | 23.95                                | 179.60             |                     |
| 22,689.5                             | 90.00                      | 179.60                 | 12,468.0                             | -9,908.0                | 406.0                   | 0.00                                   | 0.00                                  | 0.00                                 | 0.00               | PBHL (Caravan 28 St |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #701H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3544.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3544.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #701H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| 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            | 33.85       | 3,100.0               | 1.4          | 1.0          | -1.4                    | 2.00                    | 2.00                   | 0.00                  |
| 3,195.0               | 3.90            | 33.85       | 3,194.9               | 5.5          | 3.7          | -5.4                    | 2.00                    | 2.00                   | 0.00                  |
| 3,200.0               | 3.90            | 33.85       | 3,199.8               | 5.8          | 3.9          | -5.6                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 3.90            | 33.85       | 3,299.6               | 11.4         | 7.7          | -11.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 3.90            | 33.85       | 3,399.4               | 17.1         | 11.5         | -16.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 3.90            | 33.85       | 3,499.1               | 22.7         | 15.3         | -22.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 3.90            | 33.85       | 3,598.9               | 28.4         | 19.0         | -27.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 3.90            | 33.85       | 3,698.7               | 34.0         | 22.8         | -33.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 3.90            | 33.85       | 3,798.4               | 39.7         | 26.6         | -38.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 3.90            | 33.85       | 3,898.2               | 45.3         | 30.4         | -44.1                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 3.90            | 33.85       | 3,998.0               | 51.0         | 34.2         | -49.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 3.90            | 33.85       | 4,097.8               | 56.6         | 38.0         | -55.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 3.90            | 33.85       | 4,197.5               | 62.3         | 41.8         | -60.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 3.90            | 33.85       | 4,297.3               | 67.9         | 45.6         | -66.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 3.90            | 33.85       | 4,397.1               | 73.6         | 49.3         | -71.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 3.90            | 33.85       | 4,496.8               | 79.2         | 53.1         | -77.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 3.90            | 33.85       | 4,596.6               | 84.9         | 56.9         | -82.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 3.90            | 33.85       | 4,696.4               | 90.5         | 60.7         | -88.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 3.90            | 33.85       | 4,796.1               | 96.2         | 64.5         | -93.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 3.90            | 33.85       | 4,895.9               | 101.8        | 68.3         | -98.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 3.90            | 33.85       | 4,995.7               | 107.5        | 72.1         | -104.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 3.90            | 33.85       | 5,095.4               | 113.1        | 75.9         | -109.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 3.90            | 33.85       | 5,195.2               | 118.8        | 79.7         | -115.4                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #701H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3544.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3544.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #701H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| 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               | 3.90            | 33.85       | 5,295.0               | 124.4        | 83.4         | -120.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 3.90            | 33.85       | 5,394.7               | 130.1        | 87.2         | -126.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 3.90            | 33.85       | 5,494.5               | 135.7        | 91.0         | -131.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 3.90            | 33.85       | 5,594.3               | 141.4        | 94.8         | -137.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 3.90            | 33.85       | 5,694.0               | 147.0        | 98.6         | -142.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 3.90            | 33.85       | 5,793.8               | 152.7        | 102.4        | -148.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 3.90            | 33.85       | 5,893.6               | 158.3        | 106.2        | -153.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 3.90            | 33.85       | 5,993.4               | 164.0        | 110.0        | -159.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 3.90            | 33.85       | 6,093.1               | 169.6        | 113.8        | -164.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 3.90            | 33.85       | 6,192.9               | 175.3        | 117.5        | -170.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 3.90            | 33.85       | 6,292.7               | 180.9        | 121.3        | -175.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 3.90            | 33.85       | 6,392.4               | 186.6        | 125.1        | -181.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 3.90            | 33.85       | 6,492.2               | 192.2        | 128.9        | -186.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 3.90            | 33.85       | 6,592.0               | 197.9        | 132.7        | -192.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 3.90            | 33.85       | 6,691.7               | 203.5        | 136.5        | -197.7                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 3.90            | 33.85       | 6,791.5               | 209.2        | 140.3        | -203.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 3.90            | 33.85       | 6,891.3               | 214.8        | 144.1        | -208.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 3.90            | 33.85       | 6,991.0               | 220.5        | 147.9        | -214.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 3.90            | 33.85       | 7,090.8               | 226.1        | 151.6        | -219.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 3.90            | 33.85       | 7,190.6               | 231.7        | 155.4        | -225.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 3.90            | 33.85       | 7,290.3               | 237.4        | 159.2        | -230.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 3.90            | 33.85       | 7,390.1               | 243.0        | 163.0        | -236.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 3.90            | 33.85       | 7,489.9               | 248.7        | 166.8        | -241.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 3.90            | 33.85       | 7,589.6               | 254.3        | 170.6        | -247.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 3.90            | 33.85       | 7,689.4               | 260.0        | 174.4        | -252.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 3.90            | 33.85       | 7,789.2               | 265.6        | 178.2        | -258.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 3.90            | 33.85       | 7,889.0               | 271.3        | 182.0        | -263.6                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 3.90            | 33.85       | 7,988.7               | 276.9        | 185.7        | -269.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 3.90            | 33.85       | 8,088.5               | 282.6        | 189.5        | -274.6                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 3.90            | 33.85       | 8,188.3               | 288.2        | 193.3        | -280.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 3.90            | 33.85       | 8,288.0               | 293.9        | 197.1        | -285.6                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 3.90            | 33.85       | 8,387.8               | 299.5        | 200.9        | -291.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 3.90            | 33.85       | 8,487.6               | 305.2        | 204.7        | -296.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 3.90            | 33.85       | 8,587.3               | 310.8        | 208.5        | -302.0                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 3.90            | 33.85       | 8,687.1               | 316.5        | 212.3        | -307.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 3.90            | 33.85       | 8,786.9               | 322.1        | 216.0        | -313.0                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 3.90            | 33.85       | 8,886.6               | 327.8        | 219.8        | -318.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 3.90            | 33.85       | 8,986.4               | 333.4        | 223.6        | -324.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 3.90            | 33.85       | 9,086.2               | 339.1        | 227.4        | -329.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 3.90            | 33.85       | 9,185.9               | 344.7        | 231.2        | -335.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 3.90            | 33.85       | 9,285.7               | 350.4        | 235.0        | -340.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 3.90            | 33.85       | 9,385.5               | 356.0        | 238.8        | -346.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 3.90            | 33.85       | 9,485.2               | 361.7        | 242.6        | -351.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 3.90            | 33.85       | 9,585.0               | 367.3        | 246.4        | -356.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 3.90            | 33.85       | 9,684.8               | 373.0        | 250.1        | -362.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 3.90            | 33.85       | 9,784.6               | 378.6        | 253.9        | -367.9                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 3.90            | 33.85       | 9,884.3               | 384.3        | 257.7        | -373.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 3.90            | 33.85       | 9,984.1               | 389.9        | 261.5        | -378.9                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 3.90            | 33.85       | 10,083.9              | 395.6        | 265.3        | -384.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 3.90            | 33.85       | 10,183.6              | 401.2        | 269.1        | -389.9                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 3.90            | 33.85       | 10,283.4              | 406.9        | 272.9        | -395.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 3.90            | 33.85       | 10,383.2              | 412.5        | 276.7        | -400.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 3.90            | 33.85       | 10,482.9              | 418.2        | 280.5        | -406.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 3.90            | 33.85       | 10,582.7              | 423.8        | 284.2        | -411.8                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #701H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3544.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3544.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #701H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| 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                         | 3.90            | 33.85       | 10,682.5              | 429.5        | 288.0        | -417.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                         | 3.90            | 33.85       | 10,782.2              | 435.1        | 291.8        | -422.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                         | 3.90            | 33.85       | 10,882.0              | 440.8        | 295.6        | -428.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                         | 3.90            | 33.85       | 10,981.8              | 446.4        | 299.4        | -433.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                         | 3.90            | 33.85       | 11,081.5              | 452.1        | 303.2        | -439.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                         | 3.90            | 33.85       | 11,181.3              | 457.7        | 307.0        | -444.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                         | 3.90            | 33.85       | 11,281.1              | 463.4        | 310.8        | -450.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                         | 3.90            | 33.85       | 11,380.8              | 469.0        | 314.6        | -455.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                         | 3.90            | 33.85       | 11,480.6              | 474.7        | 318.3        | -461.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                         | 3.90            | 33.85       | 11,580.4              | 480.3        | 322.1        | -466.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                         | 3.90            | 33.85       | 11,680.2              | 486.0        | 325.9        | -472.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                         | 3.90            | 33.85       | 11,779.9              | 491.6        | 329.7        | -477.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,815.8                         | 3.90            | 33.85       | 11,795.6              | 492.5        | 330.3        | -478.6                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                         | 2.22            | 33.85       | 11,879.8              | 496.2        | 332.8        | -482.2                  | 2.00                    | -2.00                  | 0.00                  |
| 12,000.0                         | 0.22            | 33.85       | 11,979.7              | 498.0        | 334.0        | -483.9                  | 2.00                    | -2.00                  | 0.00                  |
| 12,010.8                         | 0.00            | 0.00        | 11,990.5              | 498.0        | 334.0        | -483.9                  | 2.00                    | -2.00                  | 0.00                  |
| KOP (Caravan 28 State Com #701H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,025.0                         | 1.71            | 179.60      | 12,004.7              | 497.8        | 334.0        | -483.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,050.0                         | 4.71            | 179.60      | 12,029.7              | 496.4        | 334.0        | -482.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,075.0                         | 7.71            | 179.60      | 12,054.5              | 493.7        | 334.0        | -479.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,100.0                         | 10.71           | 179.60      | 12,079.2              | 489.7        | 334.1        | -475.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,125.0                         | 13.71           | 179.60      | 12,103.6              | 484.4        | 334.1        | -470.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,150.0                         | 16.71           | 179.60      | 12,127.8              | 477.8        | 334.1        | -463.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,175.0                         | 19.71           | 179.60      | 12,151.5              | 470.0        | 334.2        | -456.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,200.0                         | 22.71           | 179.60      | 12,174.8              | 461.0        | 334.3        | -446.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,225.0                         | 25.71           | 179.60      | 12,197.6              | 450.7        | 334.3        | -436.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,250.0                         | 28.71           | 179.60      | 12,219.8              | 439.3        | 334.4        | -425.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,275.0                         | 31.71           | 179.60      | 12,241.5              | 426.7        | 334.5        | -412.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,300.0                         | 34.71           | 179.60      | 12,262.4              | 413.0        | 334.6        | -399.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,325.0                         | 37.71           | 179.60      | 12,282.5              | 398.3        | 334.7        | -384.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,350.0                         | 40.71           | 179.60      | 12,301.9              | 382.5        | 334.8        | -368.4                  | 12.00                   | 12.00                  | 0.00                  |
| 12,375.0                         | 43.71           | 179.60      | 12,320.4              | 365.7        | 334.9        | -351.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,400.0                         | 46.71           | 179.60      | 12,338.0              | 347.9        | 335.0        | -333.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,412.0                         | 48.15           | 179.60      | 12,346.2              | 339.1        | 335.1        | -325.1                  | 12.00                   | 12.00                  | 0.00                  |
| FTP (Caravan 28 State Com #701H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,425.0                         | 49.71           | 179.60      | 12,354.7              | 329.3        | 335.2        | -315.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,450.0                         | 52.71           | 179.60      | 12,370.4              | 309.8        | 335.3        | -295.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,475.0                         | 55.71           | 179.60      | 12,385.0              | 289.5        | 335.4        | -275.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,500.0                         | 58.71           | 179.60      | 12,398.5              | 268.5        | 335.6        | -254.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,525.0                         | 61.71           | 179.60      | 12,410.9              | 246.8        | 335.7        | -232.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,550.0                         | 64.71           | 179.60      | 12,422.2              | 224.5        | 335.9        | -210.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,575.0                         | 67.71           | 179.60      | 12,432.3              | 201.7        | 336.1        | -187.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,600.0                         | 70.71           | 179.60      | 12,441.2              | 178.3        | 336.2        | -164.4                  | 12.00                   | 12.00                  | 0.00                  |
| 12,625.0                         | 73.71           | 179.60      | 12,448.8              | 154.5        | 336.4        | -140.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,650.0                         | 76.71           | 179.60      | 12,455.2              | 130.3        | 336.5        | -116.4                  | 12.00                   | 12.00                  | 0.00                  |
| 12,675.0                         | 79.71           | 179.60      | 12,460.3              | 105.8        | 336.7        | -92.0                   | 12.00                   | 12.00                  | 0.00                  |
| 12,700.0                         | 82.71           | 179.60      | 12,464.1              | 81.1         | 336.9        | -67.3                   | 12.00                   | 12.00                  | 0.00                  |
| 12,725.0                         | 85.71           | 179.60      | 12,466.6              | 56.3         | 337.1        | -42.4                   | 12.00                   | 12.00                  | 0.00                  |
| 12,750.0                         | 88.71           | 179.60      | 12,467.8              | 31.3         | 337.2        | -17.5                   | 12.00                   | 12.00                  | 0.00                  |
| 12,760.8                         | 90.00           | 179.60      | 12,468.0              | 20.5         | 337.3        | -6.7                    | 12.00                   | 12.00                  | 0.00                  |
| 12,800.0                         | 90.00           | 179.60      | 12,468.0              | -18.7        | 337.6        | 32.5                    | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                         | 90.00           | 179.60      | 12,468.0              | -118.7       | 338.3        | 132.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                         | 90.00           | 179.60      | 12,468.0              | -218.7       | 339.0        | 232.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                         | 90.00           | 179.60      | 12,468.0              | -318.7       | 339.7        | 332.3                   | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #701H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3544.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3544.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #701H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| 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) |
| 13,200.0              | 90.00           | 179.60      | 12,468.0              | -418.7       | 340.3        | 432.3                   | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 179.60      | 12,468.0              | -518.7       | 341.0        | 532.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 179.60      | 12,468.0              | -618.7       | 341.7        | 632.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 179.60      | 12,468.0              | -718.7       | 342.4        | 732.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 179.60      | 12,468.0              | -818.7       | 343.1        | 832.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 179.60      | 12,468.0              | -918.7       | 343.8        | 932.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 179.60      | 12,468.0              | -1,018.7     | 344.5        | 1,031.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 179.60      | 12,468.0              | -1,118.7     | 345.2        | 1,131.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 179.60      | 12,468.0              | -1,218.7     | 345.9        | 1,231.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 179.60      | 12,468.0              | -1,318.7     | 346.6        | 1,331.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 179.60      | 12,468.0              | -1,418.7     | 347.3        | 1,431.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 179.60      | 12,468.0              | -1,518.7     | 348.0        | 1,531.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 179.60      | 12,468.0              | -1,618.6     | 348.6        | 1,631.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 179.60      | 12,468.0              | -1,718.6     | 349.3        | 1,731.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 179.60      | 12,468.0              | -1,818.6     | 350.0        | 1,831.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 179.60      | 12,468.0              | -1,918.6     | 350.7        | 1,931.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 179.60      | 12,468.0              | -2,018.6     | 351.4        | 2,031.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 179.60      | 12,468.0              | -2,118.6     | 352.1        | 2,131.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 179.60      | 12,468.0              | -2,218.6     | 352.8        | 2,231.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 179.60      | 12,468.0              | -2,318.6     | 353.5        | 2,331.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 179.60      | 12,468.0              | -2,418.6     | 354.2        | 2,431.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 179.60      | 12,468.0              | -2,518.6     | 354.9        | 2,531.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 179.60      | 12,468.0              | -2,618.6     | 355.6        | 2,631.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 179.60      | 12,468.0              | -2,718.6     | 356.3        | 2,730.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 179.60      | 12,468.0              | -2,818.6     | 356.9        | 2,830.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 179.60      | 12,468.0              | -2,918.6     | 357.6        | 2,930.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 179.60      | 12,468.0              | -3,018.6     | 358.3        | 3,030.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 179.60      | 12,468.0              | -3,118.6     | 359.0        | 3,130.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 179.60      | 12,468.0              | -3,218.6     | 359.7        | 3,230.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 179.60      | 12,468.0              | -3,318.6     | 360.4        | 3,330.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 179.60      | 12,468.0              | -3,418.6     | 361.1        | 3,430.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 179.60      | 12,468.0              | -3,518.6     | 361.8        | 3,530.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 179.60      | 12,468.0              | -3,618.6     | 362.5        | 3,630.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 179.60      | 12,468.0              | -3,718.6     | 363.2        | 3,730.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 179.60      | 12,468.0              | -3,818.6     | 363.9        | 3,830.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 179.60      | 12,468.0              | -3,918.6     | 364.6        | 3,930.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 179.60      | 12,468.0              | -4,018.6     | 365.3        | 4,030.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 179.60      | 12,468.0              | -4,118.6     | 365.9        | 4,130.1                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 179.60      | 12,468.0              | -4,218.6     | 366.6        | 4,230.1                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 179.60      | 12,468.0              | -4,318.6     | 367.3        | 4,330.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 179.60      | 12,468.0              | -4,418.6     | 368.0        | 4,429.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 179.60      | 12,468.0              | -4,518.6     | 368.7        | 4,529.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 179.60      | 12,468.0              | -4,618.6     | 369.4        | 4,629.8                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.00           | 179.60      | 12,468.0              | -4,718.6     | 370.1        | 4,729.8                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.00           | 179.60      | 12,468.0              | -4,818.6     | 370.8        | 4,829.7                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.00           | 179.60      | 12,468.0              | -4,918.6     | 371.5        | 4,929.7                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.00           | 179.60      | 12,468.0              | -5,018.6     | 372.2        | 5,029.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.00           | 179.60      | 12,468.0              | -5,118.6     | 372.9        | 5,129.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.00           | 179.60      | 12,468.0              | -5,218.6     | 373.6        | 5,229.5                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.00           | 179.60      | 12,468.0              | -5,318.6     | 374.2        | 5,329.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.00           | 179.60      | 12,468.0              | -5,418.6     | 374.9        | 5,429.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.00           | 179.60      | 12,468.0              | -5,518.6     | 375.6        | 5,529.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.00           | 179.60      | 12,468.0              | -5,618.6     | 376.3        | 5,629.2                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.00           | 179.60      | 12,468.0              | -5,718.6     | 377.0        | 5,729.2                 | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #701H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3544.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3544.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #701H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| Planned Survey                    |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 18,600.0                          | 90.00           | 179.60      | 12,468.0              | -5,818.5     | 377.7        | 5,829.1                 | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0                          | 90.00           | 179.60      | 12,468.0              | -5,918.5     | 378.4        | 5,929.1                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0                          | 90.00           | 179.60      | 12,468.0              | -6,018.5     | 379.1        | 6,029.0                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0                          | 90.00           | 179.60      | 12,468.0              | -6,118.5     | 379.8        | 6,129.0                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0                          | 90.00           | 179.60      | 12,468.0              | -6,218.5     | 380.5        | 6,228.9                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0                          | 90.00           | 179.60      | 12,468.0              | -6,318.5     | 381.2        | 6,328.8                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0                          | 90.00           | 179.60      | 12,468.0              | -6,418.5     | 381.9        | 6,428.8                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0                          | 90.00           | 179.60      | 12,468.0              | -6,518.5     | 382.5        | 6,528.7                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0                          | 90.00           | 179.60      | 12,468.0              | -6,618.5     | 383.2        | 6,628.7                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0                          | 90.00           | 179.60      | 12,468.0              | -6,718.5     | 383.9        | 6,728.6                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0                          | 90.00           | 179.60      | 12,468.0              | -6,818.5     | 384.6        | 6,828.6                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0                          | 90.00           | 179.60      | 12,468.0              | -6,918.5     | 385.3        | 6,928.5                 | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0                          | 90.00           | 179.60      | 12,468.0              | -7,018.5     | 386.0        | 7,028.4                 | 0.00                    | 0.00                   | 0.00                  |
| 19,900.0                          | 90.00           | 179.60      | 12,468.0              | -7,118.5     | 386.7        | 7,128.4                 | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0                          | 90.00           | 179.60      | 12,468.0              | -7,218.5     | 387.4        | 7,228.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0                          | 90.00           | 179.60      | 12,468.0              | -7,318.5     | 388.1        | 7,328.3                 | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0                          | 90.00           | 179.60      | 12,468.0              | -7,418.5     | 388.8        | 7,428.2                 | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0                          | 90.00           | 179.60      | 12,468.0              | -7,518.5     | 389.5        | 7,528.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0                          | 90.00           | 179.60      | 12,468.0              | -7,618.5     | 390.2        | 7,628.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0                          | 90.00           | 179.60      | 12,468.0              | -7,718.5     | 390.9        | 7,728.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0                          | 90.00           | 179.60      | 12,468.0              | -7,818.5     | 391.5        | 7,828.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0                          | 90.00           | 179.60      | 12,468.0              | -7,918.5     | 392.2        | 7,927.9                 | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0                          | 90.00           | 179.60      | 12,468.0              | -8,018.5     | 392.9        | 8,027.9                 | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0                          | 90.00           | 179.60      | 12,468.0              | -8,118.5     | 393.6        | 8,127.8                 | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0                          | 90.00           | 179.60      | 12,468.0              | -8,218.5     | 394.3        | 8,227.7                 | 0.00                    | 0.00                   | 0.00                  |
| 21,100.0                          | 90.00           | 179.60      | 12,468.0              | -8,318.5     | 395.0        | 8,327.7                 | 0.00                    | 0.00                   | 0.00                  |
| 21,200.0                          | 90.00           | 179.60      | 12,468.0              | -8,418.5     | 395.7        | 8,427.6                 | 0.00                    | 0.00                   | 0.00                  |
| 21,300.0                          | 90.00           | 179.60      | 12,468.0              | -8,518.5     | 396.4        | 8,527.6                 | 0.00                    | 0.00                   | 0.00                  |
| 21,400.0                          | 90.00           | 179.60      | 12,468.0              | -8,618.5     | 397.1        | 8,627.5                 | 0.00                    | 0.00                   | 0.00                  |
| 21,500.0                          | 90.00           | 179.60      | 12,468.0              | -8,718.5     | 397.8        | 8,727.5                 | 0.00                    | 0.00                   | 0.00                  |
| 21,600.0                          | 90.00           | 179.60      | 12,468.0              | -8,818.5     | 398.5        | 8,827.4                 | 0.00                    | 0.00                   | 0.00                  |
| 21,700.0                          | 90.00           | 179.60      | 12,468.0              | -8,918.5     | 399.2        | 8,927.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,800.0                          | 90.00           | 179.60      | 12,468.0              | -9,018.5     | 399.8        | 9,027.3                 | 0.00                    | 0.00                   | 0.00                  |
| 21,900.0                          | 90.00           | 179.60      | 12,468.0              | -9,118.5     | 400.5        | 9,127.2                 | 0.00                    | 0.00                   | 0.00                  |
| 22,000.0                          | 90.00           | 179.60      | 12,468.0              | -9,218.5     | 401.2        | 9,227.2                 | 0.00                    | 0.00                   | 0.00                  |
| 22,100.0                          | 90.00           | 179.60      | 12,468.0              | -9,318.5     | 401.9        | 9,327.1                 | 0.00                    | 0.00                   | 0.00                  |
| 22,200.0                          | 90.00           | 179.60      | 12,468.0              | -9,418.5     | 402.6        | 9,427.0                 | 0.00                    | 0.00                   | 0.00                  |
| 22,300.0                          | 90.00           | 179.60      | 12,468.0              | -9,518.5     | 403.3        | 9,527.0                 | 0.00                    | 0.00                   | 0.00                  |
| 22,400.0                          | 90.00           | 179.60      | 12,468.0              | -9,618.5     | 404.0        | 9,626.9                 | 0.00                    | 0.00                   | 0.00                  |
| 22,500.0                          | 90.00           | 179.60      | 12,468.0              | -9,718.5     | 404.7        | 9,726.9                 | 0.00                    | 0.00                   | 0.00                  |
| 22,600.0                          | 90.00           | 179.60      | 12,468.0              | -9,818.5     | 405.4        | 9,826.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,689.5                          | 90.00           | 179.60      | 12,468.0              | -9,908.0     | 406.0        | 9,916.3                 | 0.00                    | 0.00                   | 0.00                  |
| PBHL (Caravan 28 State Com #701H) |                 |             |                       |              |              |                         |                         |                        |                       |





## 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 @ 3544.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3544.0usft |
| <b>Site:</b>     | Caravan 28 State Com        | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #701H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.2                   |                                     |                      |

### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                    | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |
|--------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| KOP (Caravan 28 State<br>- plan hits target center<br>- Point                                                                  | 0.00             | 0.00            | 11,990.5      | 498.0           | 334.0           | 435,766.00         | 775,071.00        | 32° 11' 44.666 N | 103° 34' 39.810 W |
| PBHL (Caravan 28 State<br>- plan hits target center<br>- Point                                                                 | 0.00             | 0.00            | 12,468.0      | -9,908.0        | 406.0           | 425,360.00         | 775,143.00        | 32° 10' 1.691 N  | 103° 34' 39.823 W |
| FTP (Caravan 28 State<br>- plan misses target center by 163.4usft at 12412.0usft MD (12346.2 TVD, 339.1 N, 335.1 E)<br>- Point | 0.00             | 0.00            | 12,468.0      | 448.0           | 334.0           | 435,716.00         | 775,071.00        | 32° 11' 44.171 N | 103° 34' 39.815 W |