

HOBBS OCD

NOV 27 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Caravan 28 State Com #703H

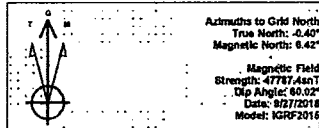
Plan #0.2

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: #703H

KB = 25 @ 3550.00ft  
Northing 435327.00 Easting 773995.00 32° 11' 40.397 N Longitude 102° 34' 32.368 W



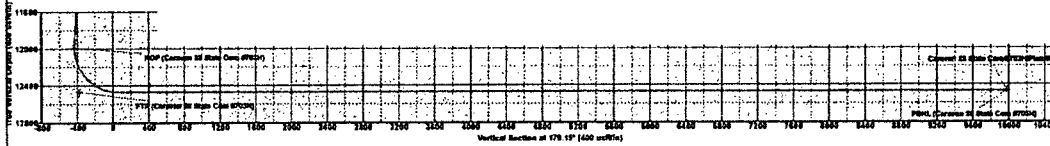
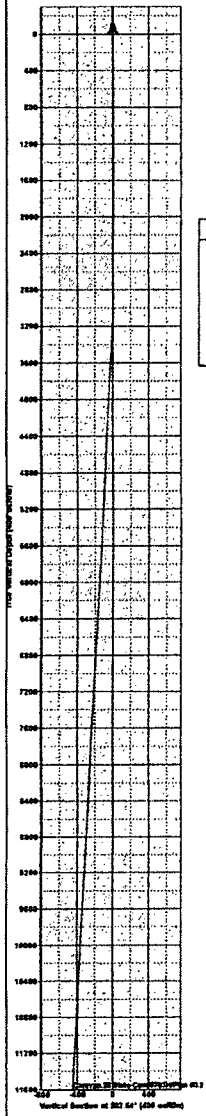
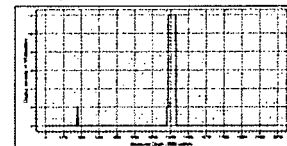
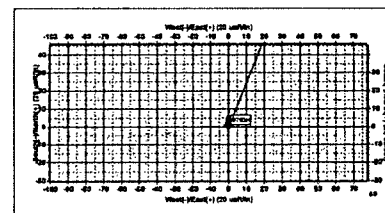
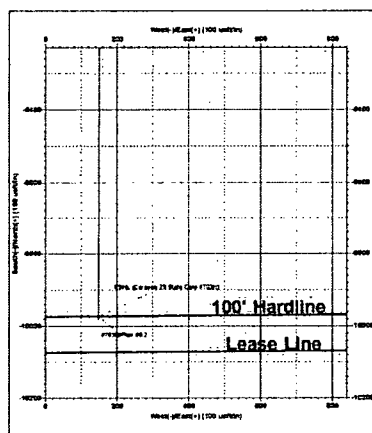
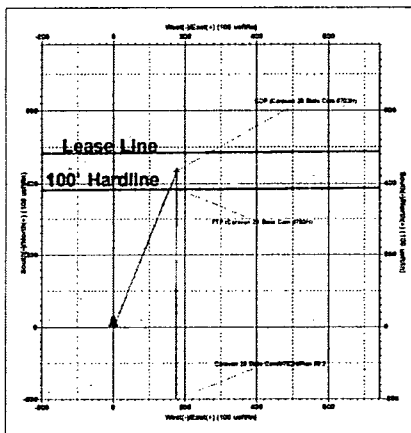
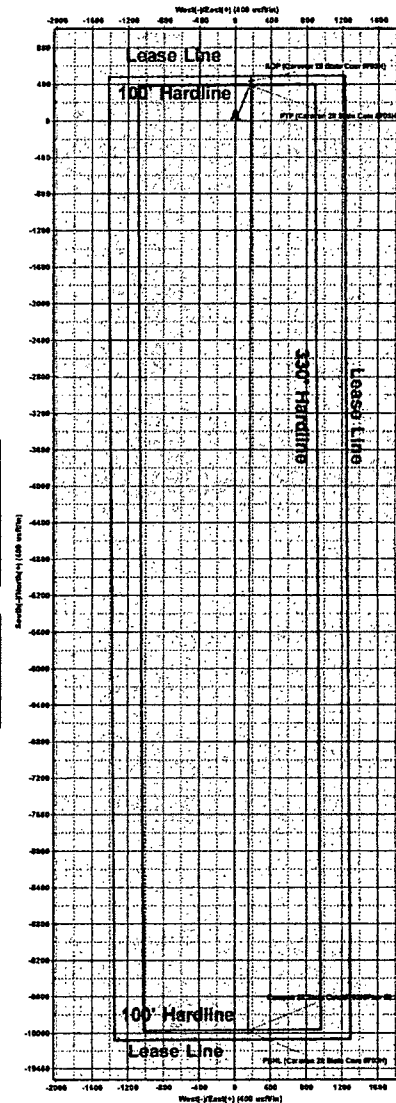
To convert a Magnetic Direction to a Grid Direction, Add 6.42°  
To convert a Magnetic Direction to a True Direction, Add 6.82° East  
To convert a True Direction to a Grid Direction, Subtract 0.40°

#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/S    | +E/W  | Dleg  | TFace  | VSecl  | 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   | 3151.7  | 3.03  | 22.07  | 3151.6  | 3.7     | 1.5   | 2.00  | 22.07  | -3.7   |                                   |
| 4   | 11851.2 | 3.03  | 22.07  | 11838.9 | 430.3   | 174.5 | 0.00  | 0.00   | -427.6 |                                   |
| 5   | 12002.8 | 0.00  | 0.00   | 11990.5 | 434.0   | 176.0 | 2.00  | 180.00 | -431.3 | KOP (Caravan 28 State Com #703H)  |
| 6   | 12752.8 | 90.00 | 180.15 | 12468.0 | -43.5   | 174.7 | 12.00 | 180.15 | 46.0   |                                   |
| 7   | 22662.4 | 90.00 | 180.15 | 12468.0 | -9973.0 | 148.0 | 0.00  | 0.00   | 9974.1 | PBHL (Caravan 28 State Com #703H) |

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

| Name                              | TVD     | +N/S    | +E/W  | Northing  | Easting   |
|-----------------------------------|---------|---------|-------|-----------|-----------|
| KOP (Caravan 28 State Com #703H)  | 11990.5 | 434.0   | 176.0 | 435791.00 | 774171.00 |
| FTP (Caravan 28 State Com #703H)  | 12468.0 | 384.0   | 178.0 | 435771.00 | 774171.00 |
| PBHL (Caravan 28 State Com #703H) | 12468.0 | -9973.0 | 148.0 | 425354.00 | 774143.00 |





## **EOG Resources - Midland**

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

**Caravan 28 State Com**

**#703H**

**OH**

**Plan: Plan #0.2**

## **Standard Planning Report**

**21 November, 2018**



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #703H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3550.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

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

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

|                      |          |                     |               |
|----------------------|----------|---------------------|---------------|
| Well                 | #703H    |                     |               |
| Well Position        | +N/-S    | 39.0 usft           | Northing:     |
|                      | +E/-W    | -683.0 usft         | Easting:      |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | Ground Level: |
|                      |          |                     | 3,525.0 usft  |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 9/27/2018   | 6.82            | 60.02         | 47,787.35012685     |

|                   |                         |              |               |               |
|-------------------|-------------------------|--------------|---------------|---------------|
| Design            | Plan #0.2               |              |               |               |
| Audit Notes:      |                         |              |               |               |
| Version:          | Phase:                  | PLAN         | Tie On Depth: | 0.0           |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft)  | Direction (°) |
|                   | 0.0                     | 0.0          | 0.0           | 179.15        |

|                          |                 |                         |                     |         |
|--------------------------|-----------------|-------------------------|---------------------|---------|
| Plan Survey Tool Program | Date 11/21/2018 |                         |                     |         |
| Depth From (usft)        | Depth To (usft) | Survey (Wellbore)       | Tool Name           | Remarks |
| 1                        | 0.0             | 22,681.4 Plan #0.2 (OH) | MWD                 |         |
|                          |                 |                         | OWSG MWD - Standard |         |

|                       |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                     |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target              |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 3,000.0               | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 3,151.7               | 3.03            | 22.07       | 3,151.6               | 3.7          | 1.5          | 2.00                    | 2.00                   | 0.00                  | 22.07   |                     |
| 11,851.2              | 3.03            | 22.07       | 11,838.9              | 430.3        | 174.5        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 12,002.8              | 0.00            | 0.00        | 11,990.5              | 434.0        | 176.0        | 2.00                    | -2.00                  | 0.00                  | 180.00  | KOP (Caravan 28 Sta |
| 12,752.8              | 90.00           | 180.15      | 12,468.0              | -43.5        | 174.7        | 12.00                   | 12.00                  | -23.98                | 180.15  |                     |
| 22,682.4              | 90.00           | 180.15      | 12,468.0              | -9,973.0     | 148.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (Caravan 28 St |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
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| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | 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            | 22.07       | 3,100.0               | 1.6          | 0.7          | -1.6                    | 2.00                    | 2.00                   | 0.00                  |
| 3,151.7               | 3.03            | 22.07       | 3,151.6               | 3.7          | 1.5          | -3.7                    | 2.00                    | 2.00                   | 0.00                  |
| 3,200.0               | 3.03            | 22.07       | 3,199.9               | 6.1          | 2.5          | -6.1                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 3.03            | 22.07       | 3,299.7               | 11.0         | 4.5          | -10.9                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 3.03            | 22.07       | 3,399.6               | 15.9         | 6.4          | -15.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 3.03            | 22.07       | 3,499.4               | 20.8         | 8.4          | -20.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 3.03            | 22.07       | 3,599.3               | 25.7         | 10.4         | -25.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 3.03            | 22.07       | 3,699.2               | 30.6         | 12.4         | -30.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 3.03            | 22.07       | 3,799.0               | 35.5         | 14.4         | -35.3                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 3.03            | 22.07       | 3,898.9               | 40.4         | 16.4         | -40.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 3.03            | 22.07       | 3,998.7               | 45.3         | 18.4         | -45.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 3.03            | 22.07       | 4,098.6               | 50.2         | 20.4         | -49.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 3.03            | 22.07       | 4,198.5               | 55.1         | 22.4         | -54.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 3.03            | 22.07       | 4,298.3               | 60.0         | 24.3         | -59.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 3.03            | 22.07       | 4,398.2               | 64.9         | 26.3         | -64.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 3.03            | 22.07       | 4,498.0               | 69.8         | 28.3         | -69.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 3.03            | 22.07       | 4,597.9               | 74.7         | 30.3         | -74.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 3.03            | 22.07       | 4,697.8               | 79.6         | 32.3         | -79.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 3.03            | 22.07       | 4,797.6               | 84.5         | 34.3         | -84.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 3.03            | 22.07       | 4,897.5               | 89.4         | 36.3         | -88.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 3.03            | 22.07       | 4,997.3               | 94.3         | 38.3         | -93.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 3.03            | 22.07       | 5,097.2               | 99.3         | 40.2         | -98.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 3.03            | 22.07       | 5,197.1               | 104.2        | 42.2         | -103.5                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #703H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3550.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | 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               | 3.03            | 22.07       | 5,296.9               | 109.1        | 44.2         | -108.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0               | 3.03            | 22.07       | 5,396.8               | 114.0        | 46.2         | -113.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0               | 3.03            | 22.07       | 5,496.6               | 118.9        | 48.2         | -118.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0               | 3.03            | 22.07       | 5,596.5               | 123.8        | 50.2         | -123.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0               | 3.03            | 22.07       | 5,696.4               | 128.7        | 52.2         | -127.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0               | 3.03            | 22.07       | 5,796.2               | 133.6        | 54.2         | -132.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0               | 3.03            | 22.07       | 5,896.1               | 138.5        | 56.2         | -137.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0               | 3.03            | 22.07       | 5,995.9               | 143.4        | 58.1         | -142.5                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0               | 3.03            | 22.07       | 6,095.8               | 148.3        | 60.1         | -147.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0               | 3.03            | 22.07       | 6,195.7               | 153.2        | 62.1         | -152.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0               | 3.03            | 22.07       | 6,295.5               | 158.1        | 64.1         | -157.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0               | 3.03            | 22.07       | 6,395.4               | 163.0        | 66.1         | -162.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0               | 3.03            | 22.07       | 6,495.2               | 167.9        | 68.1         | -166.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0               | 3.03            | 22.07       | 6,595.1               | 172.8        | 70.1         | -171.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0               | 3.03            | 22.07       | 6,695.0               | 177.7        | 72.1         | -176.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0               | 3.03            | 22.07       | 6,794.8               | 182.6        | 74.1         | -181.5                  | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0               | 3.03            | 22.07       | 6,894.7               | 187.5        | 76.0         | -186.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0               | 3.03            | 22.07       | 6,994.5               | 192.4        | 78.0         | -191.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0               | 3.03            | 22.07       | 7,094.4               | 197.3        | 80.0         | -196.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0               | 3.03            | 22.07       | 7,194.3               | 202.2        | 82.0         | -201.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0               | 3.03            | 22.07       | 7,294.1               | 207.1        | 84.0         | -205.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0               | 3.03            | 22.07       | 7,394.0               | 212.0        | 86.0         | -210.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0               | 3.03            | 22.07       | 7,493.8               | 216.9        | 88.0         | -215.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0               | 3.03            | 22.07       | 7,593.7               | 221.8        | 90.0         | -220.5                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0               | 3.03            | 22.07       | 7,693.6               | 226.7        | 91.9         | -225.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.0               | 3.03            | 22.07       | 7,793.4               | 231.6        | 93.9         | -230.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.0               | 3.03            | 22.07       | 7,893.3               | 236.5        | 95.9         | -235.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.0               | 3.03            | 22.07       | 7,993.1               | 241.4        | 97.9         | -240.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.0               | 3.03            | 22.07       | 8,093.0               | 246.4        | 99.9         | -244.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,200.0               | 3.03            | 22.07       | 8,192.9               | 251.3        | 101.9        | -249.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,300.0               | 3.03            | 22.07       | 8,292.7               | 256.2        | 103.9        | -254.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.0               | 3.03            | 22.07       | 8,392.6               | 261.1        | 105.9        | -259.5                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.0               | 3.03            | 22.07       | 8,492.4               | 266.0        | 107.9        | -264.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.0               | 3.03            | 22.07       | 8,592.3               | 270.9        | 109.8        | -269.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.0               | 3.03            | 22.07       | 8,692.2               | 275.8        | 111.8        | -274.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.0               | 3.03            | 22.07       | 8,792.0               | 280.7        | 113.8        | -279.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.0               | 3.03            | 22.07       | 8,891.9               | 285.6        | 115.8        | -283.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.0               | 3.03            | 22.07       | 8,991.7               | 290.5        | 117.8        | -288.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.0               | 3.03            | 22.07       | 9,091.6               | 295.4        | 119.8        | -293.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0               | 3.03            | 22.07       | 9,191.5               | 300.3        | 121.8        | -298.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0               | 3.03            | 22.07       | 9,291.3               | 305.2        | 123.8        | -303.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0               | 3.03            | 22.07       | 9,391.2               | 310.1        | 125.8        | -308.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0               | 3.03            | 22.07       | 9,491.0               | 315.0        | 127.7        | -313.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0               | 3.03            | 22.07       | 9,590.9               | 319.9        | 129.7        | -317.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0               | 3.03            | 22.07       | 9,690.8               | 324.8        | 131.7        | -322.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0               | 3.03            | 22.07       | 9,790.6               | 329.7        | 133.7        | -327.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0               | 3.03            | 22.07       | 9,890.5               | 334.6        | 135.7        | -332.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0              | 3.03            | 22.07       | 9,990.3               | 339.5        | 137.7        | -337.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0              | 3.03            | 22.07       | 10,090.2              | 344.4        | 139.7        | -342.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0              | 3.03            | 22.07       | 10,190.1              | 349.3        | 141.7        | -347.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.0              | 3.03            | 22.07       | 10,289.9              | 354.2        | 143.6        | -352.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0              | 3.03            | 22.07       | 10,389.8              | 359.1        | 145.6        | -356.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0              | 3.03            | 22.07       | 10,489.6              | 364.0        | 147.6        | -361.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0              | 3.03            | 22.07       | 10,589.5              | 368.9        | 149.6        | -366.7                  | 0.00                    | 0.00                   | 0.00                  |  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #703H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3550.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | 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                         | 3.03            | 22.07       | 10,689.4              | 373.8        | 151.6        | -371.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                         | 3.03            | 22.07       | 10,789.2              | 378.7        | 153.6        | -376.4                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                         | 3.03            | 22.07       | 10,889.1              | 383.6        | 155.6        | -381.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                         | 3.03            | 22.07       | 10,988.9              | 388.5        | 157.6        | -386.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                         | 3.03            | 22.07       | 11,088.8              | 393.4        | 159.6        | -391.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                         | 3.03            | 22.07       | 11,188.7              | 398.4        | 161.5        | -395.9                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                         | 3.03            | 22.07       | 11,288.5              | 403.3        | 163.5        | -400.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                         | 3.03            | 22.07       | 11,388.4              | 408.2        | 165.5        | -405.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                         | 3.03            | 22.07       | 11,488.2              | 413.1        | 167.5        | -410.5                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                         | 3.03            | 22.07       | 11,588.1              | 418.0        | 169.5        | -415.4                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                         | 3.03            | 22.07       | 11,688.0              | 422.9        | 171.5        | -420.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                         | 3.03            | 22.07       | 11,787.8              | 427.8        | 173.5        | -425.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,851.2                         | 3.03            | 22.07       | 11,838.9              | 430.3        | 174.5        | -427.6                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                         | 2.06            | 22.07       | 11,887.7              | 432.3        | 175.3        | -429.6                  | 2.00                    | -2.00                  | 0.00                  |
| 12,002.8                         | 0.00            | 0.00        | 11,990.5              | 434.0        | 176.0        | -431.3                  | 2.00                    | -2.00                  | 0.00                  |
| KOP (Caravan 28 State Com #703H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,025.0                         | 2.66            | 180.15      | 12,012.7              | 433.5        | 176.0        | -430.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,050.0                         | 5.66            | 180.15      | 12,037.6              | 431.7        | 176.0        | -429.0                  | 12.00                   | 12.00                  | 0.00                  |
| 12,075.0                         | 8.66            | 180.15      | 12,062.4              | 428.6        | 176.0        | -425.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,100.0                         | 11.66           | 180.15      | 12,087.0              | 424.1        | 176.0        | -421.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,125.0                         | 14.66           | 180.15      | 12,111.3              | 418.5        | 176.0        | -415.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,150.0                         | 17.66           | 180.15      | 12,135.4              | 411.5        | 175.9        | -408.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,175.0                         | 20.66           | 180.15      | 12,159.0              | 403.3        | 175.9        | -400.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,200.0                         | 23.66           | 180.15      | 12,182.1              | 393.9        | 175.9        | -391.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,225.0                         | 26.66           | 180.15      | 12,204.7              | 383.2        | 175.9        | -380.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,250.0                         | 29.66           | 180.15      | 12,226.8              | 371.4        | 175.8        | -368.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,275.0                         | 32.66           | 180.15      | 12,248.2              | 358.5        | 175.8        | -355.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,300.0                         | 35.66           | 180.15      | 12,268.9              | 344.5        | 175.8        | -341.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,325.0                         | 38.66           | 180.15      | 12,288.8              | 329.4        | 175.7        | -326.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,350.0                         | 41.66           | 180.15      | 12,307.9              | 313.2        | 175.7        | -310.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,375.0                         | 44.66           | 180.15      | 12,326.1              | 296.1        | 175.6        | -293.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,400.0                         | 47.66           | 180.15      | 12,343.4              | 278.1        | 175.6        | -275.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,401.4                         | 47.82           | 180.15      | 12,344.3              | 277.1        | 175.6        | -274.5                  | 12.00                   | 12.00                  | 0.00                  |
| FTP (Caravan 28 State Com #703H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,425.0                         | 50.66           | 180.15      | 12,359.8              | 259.2        | 175.5        | -256.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,450.0                         | 53.66           | 180.15      | 12,375.1              | 239.5        | 175.5        | -236.8                  | 12.00                   | 12.00                  | 0.00                  |
| 12,475.0                         | 56.66           | 180.15      | 12,389.4              | 218.9        | 175.4        | -216.3                  | 12.00                   | 12.00                  | 0.00                  |
| 12,500.0                         | 59.66           | 180.15      | 12,402.6              | 197.7        | 175.4        | -195.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,525.0                         | 62.66           | 180.15      | 12,414.6              | 175.8        | 175.3        | -173.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,550.0                         | 65.66           | 180.15      | 12,425.5              | 153.3        | 175.2        | -150.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,575.0                         | 68.66           | 180.15      | 12,435.2              | 130.3        | 175.2        | -127.7                  | 12.00                   | 12.00                  | 0.00                  |
| 12,600.0                         | 71.66           | 180.15      | 12,443.7              | 106.8        | 175.1        | -104.2                  | 12.00                   | 12.00                  | 0.00                  |
| 12,625.0                         | 74.66           | 180.15      | 12,451.0              | 82.8         | 175.1        | -80.2                   | 12.00                   | 12.00                  | 0.00                  |
| 12,650.0                         | 77.66           | 180.15      | 12,456.9              | 58.6         | 175.0        | -56.0                   | 12.00                   | 12.00                  | 0.00                  |
| 12,675.0                         | 80.66           | 180.15      | 12,461.6              | 34.0         | 174.9        | -31.4                   | 12.00                   | 12.00                  | 0.00                  |
| 12,700.0                         | 83.66           | 180.15      | 12,465.0              | 9.3          | 174.9        | -6.7                    | 12.00                   | 12.00                  | 0.00                  |
| 12,725.0                         | 86.66           | 180.15      | 12,467.2              | -15.7        | 174.8        | 18.2                    | 12.00                   | 12.00                  | 0.00                  |
| 12,750.0                         | 89.66           | 180.15      | 12,468.0              | -40.6        | 174.7        | 43.2                    | 12.00                   | 12.00                  | 0.00                  |
| 12,752.8                         | 90.00           | 180.15      | 12,468.0              | -43.5        | 174.7        | 46.0                    | 12.00                   | 12.00                  | 0.00                  |
| 12,800.0                         | 90.00           | 180.15      | 12,468.0              | -90.6        | 174.6        | 93.2                    | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                         | 90.00           | 180.15      | 12,468.0              | -190.6       | 174.3        | 193.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                         | 90.00           | 180.15      | 12,468.0              | -290.6       | 174.1        | 293.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                         | 90.00           | 180.15      | 12,468.0              | -390.6       | 173.8        | 393.2                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                         | 90.00           | 180.15      | 12,468.0              | -490.6       | 173.5        | 493.2                   | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #703H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3550.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | 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) |
| 13,300.0              | 90.00           | 180.15      | 12,468.0              | -590.6       | 173.2        | 593.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 180.15      | 12,468.0              | -690.6       | 173.0        | 693.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 180.15      | 12,468.0              | -790.6       | 172.7        | 793.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 180.15      | 12,468.0              | -890.6       | 172.4        | 893.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 180.15      | 12,468.0              | -990.6       | 172.2        | 993.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 180.15      | 12,468.0              | -1,090.6     | 171.9        | 1,093.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 180.15      | 12,468.0              | -1,190.6     | 171.6        | 1,193.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 180.15      | 12,468.0              | -1,290.6     | 171.4        | 1,293.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 180.15      | 12,468.0              | -1,390.6     | 171.1        | 1,393.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 180.15      | 12,468.0              | -1,490.6     | 170.8        | 1,493.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 180.15      | 12,468.0              | -1,590.6     | 170.6        | 1,593.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 180.15      | 12,468.0              | -1,690.6     | 170.3        | 1,693.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 180.15      | 12,468.0              | -1,790.6     | 170.0        | 1,793.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 180.15      | 12,468.0              | -1,890.6     | 169.7        | 1,892.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 180.15      | 12,468.0              | -1,990.6     | 169.5        | 1,992.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 180.15      | 12,468.0              | -2,090.6     | 169.2        | 2,092.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 180.15      | 12,468.0              | -2,190.6     | 168.9        | 2,192.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 180.15      | 12,468.0              | -2,290.6     | 168.7        | 2,292.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 180.15      | 12,468.0              | -2,390.6     | 168.4        | 2,392.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 180.15      | 12,468.0              | -2,490.6     | 168.1        | 2,492.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 180.15      | 12,468.0              | -2,590.6     | 167.9        | 2,592.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 180.15      | 12,468.0              | -2,690.6     | 167.6        | 2,692.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 180.15      | 12,468.0              | -2,790.6     | 167.3        | 2,792.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 180.15      | 12,468.0              | -2,890.6     | 167.1        | 2,892.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 180.15      | 12,468.0              | -2,990.6     | 166.8        | 2,992.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 180.15      | 12,468.0              | -3,090.6     | 166.5        | 3,092.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 180.15      | 12,468.0              | -3,190.6     | 166.2        | 3,192.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 180.15      | 12,468.0              | -3,290.6     | 166.0        | 3,292.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 180.15      | 12,468.0              | -3,390.6     | 165.7        | 3,392.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 180.15      | 12,468.0              | -3,490.6     | 165.4        | 3,492.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 180.15      | 12,468.0              | -3,590.6     | 165.2        | 3,592.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 180.15      | 12,468.0              | -3,690.6     | 164.9        | 3,692.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 180.15      | 12,468.0              | -3,790.6     | 164.6        | 3,792.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 180.15      | 12,468.0              | -3,890.6     | 164.4        | 3,892.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 180.15      | 12,468.0              | -3,990.6     | 164.1        | 3,992.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 180.15      | 12,468.0              | -4,090.6     | 163.8        | 4,092.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 180.15      | 12,468.0              | -4,190.6     | 163.6        | 4,192.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 180.15      | 12,468.0              | -4,290.6     | 163.3        | 4,292.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 180.15      | 12,468.0              | -4,390.6     | 163.0        | 4,392.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 180.15      | 12,468.0              | -4,490.6     | 162.8        | 4,492.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 180.15      | 12,468.0              | -4,590.6     | 162.5        | 4,592.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 180.15      | 12,468.0              | -4,690.6     | 162.2        | 4,692.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.00           | 180.15      | 12,468.0              | -4,790.6     | 161.9        | 4,792.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,600.0              | 90.00           | 180.15      | 12,468.0              | -4,890.6     | 161.7        | 4,892.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,700.0              | 90.00           | 180.15      | 12,468.0              | -4,990.6     | 161.4        | 4,992.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,800.0              | 90.00           | 180.15      | 12,468.0              | -5,090.6     | 161.1        | 5,092.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,900.0              | 90.00           | 180.15      | 12,468.0              | -5,190.6     | 160.9        | 5,192.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,000.0              | 90.00           | 180.15      | 12,468.0              | -5,290.6     | 160.6        | 5,292.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,100.0              | 90.00           | 180.15      | 12,468.0              | -5,390.6     | 160.3        | 5,392.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,200.0              | 90.00           | 180.15      | 12,468.0              | -5,490.6     | 160.1        | 5,492.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,300.0              | 90.00           | 180.15      | 12,468.0              | -5,590.6     | 159.8        | 5,592.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,400.0              | 90.00           | 180.15      | 12,468.0              | -5,690.6     | 159.5        | 5,692.4                 | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 90.00           | 180.15      | 12,468.0              | -5,790.6     | 159.3        | 5,792.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 90.00           | 180.15      | 12,468.0              | -5,890.6     | 159.0        | 5,892.3                 | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Caravan 28 State Com  
 Well: #703H  
 Wellbore: OH  
 Design: Plan #0.2

Local Co-ordinate Reference: Well #703H  
 TVD Reference: KB = 25 @ 3550.0usft  
 MD Reference: KB = 25 @ 3550.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 18,700.0              | 90.00           | 180.15      | 12,468.0              | -5,990.6     | 158.7        | 5,992.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0              | 90.00           | 180.15      | 12,468.0              | -6,090.6     | 158.4        | 6,092.3                 | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 90.00           | 180.15      | 12,468.0              | -6,190.6     | 158.2        | 6,192.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 90.00           | 180.15      | 12,468.0              | -6,290.6     | 157.9        | 6,292.3                 | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 90.00           | 180.15      | 12,468.0              | -6,390.6     | 157.6        | 6,392.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 90.00           | 180.15      | 12,468.0              | -6,490.6     | 157.4        | 6,492.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 90.00           | 180.15      | 12,468.0              | -6,590.6     | 157.1        | 6,592.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 90.00           | 180.15      | 12,468.0              | -6,690.6     | 156.8        | 6,692.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 90.00           | 180.15      | 12,468.0              | -6,790.6     | 156.6        | 6,792.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 90.00           | 180.15      | 12,468.0              | -6,890.6     | 156.3        | 6,892.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0              | 90.00           | 180.15      | 12,468.0              | -6,990.6     | 156.0        | 6,992.2                 | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0              | 90.00           | 180.15      | 12,468.0              | -7,090.6     | 155.8        | 7,092.1                 | 0.00                    | 0.00                   | 0.00                  |
| 19,900.0              | 90.00           | 180.15      | 12,468.0              | -7,190.6     | 155.5        | 7,192.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0              | 90.00           | 180.15      | 12,468.0              | -7,290.6     | 155.2        | 7,292.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0              | 90.00           | 180.15      | 12,468.0              | -7,390.6     | 154.9        | 7,392.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0              | 90.00           | 180.15      | 12,468.0              | -7,490.6     | 154.7        | 7,492.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0              | 90.00           | 180.15      | 12,468.0              | -7,590.6     | 154.4        | 7,592.1                 | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0              | 90.00           | 180.15      | 12,468.0              | -7,690.6     | 154.1        | 7,692.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0              | 90.00           | 180.15      | 12,468.0              | -7,790.6     | 153.9        | 7,792.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0              | 90.00           | 180.15      | 12,468.0              | -7,890.6     | 153.6        | 7,892.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0              | 90.00           | 180.15      | 12,468.0              | -7,990.6     | 153.3        | 7,992.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0              | 90.00           | 180.15      | 12,468.0              | -8,090.6     | 153.1        | 8,092.0                 | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0              | 90.00           | 180.15      | 12,468.0              | -8,190.6     | 152.8        | 8,192.0                 | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0              | 90.00           | 180.15      | 12,468.0              | -8,290.6     | 152.5        | 8,292.0                 | 0.00                    | 0.00                   | 0.00                  |
| 21,100.0              | 90.00           | 180.15      | 12,468.0              | -8,390.6     | 152.3        | 8,391.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,200.0              | 90.00           | 180.15      | 12,468.0              | -8,490.6     | 152.0        | 8,491.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,300.0              | 90.00           | 180.15      | 12,468.0              | -8,590.6     | 151.7        | 8,591.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,400.0              | 90.00           | 180.15      | 12,468.0              | -8,690.6     | 151.5        | 8,691.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,500.0              | 90.00           | 180.15      | 12,468.0              | -8,790.6     | 151.2        | 8,791.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,600.0              | 90.00           | 180.15      | 12,468.0              | -8,890.6     | 150.9        | 8,891.9                 | 0.00                    | 0.00                   | 0.00                  |
| 21,700.0              | 90.00           | 180.15      | 12,468.0              | -8,990.6     | 150.6        | 8,991.8                 | 0.00                    | 0.00                   | 0.00                  |
| 21,800.0              | 90.00           | 180.15      | 12,468.0              | -9,090.6     | 150.4        | 9,091.8                 | 0.00                    | 0.00                   | 0.00                  |
| 21,900.0              | 90.00           | 180.15      | 12,468.0              | -9,190.6     | 150.1        | 9,191.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,000.0              | 90.00           | 180.15      | 12,468.0              | -9,290.6     | 149.8        | 9,291.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,100.0              | 90.00           | 180.15      | 12,468.0              | -9,390.6     | 149.6        | 9,391.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,200.0              | 90.00           | 180.15      | 12,468.0              | -9,490.6     | 149.3        | 9,491.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,300.0              | 90.00           | 180.15      | 12,468.0              | -9,590.6     | 149.0        | 9,591.8                 | 0.00                    | 0.00                   | 0.00                  |
| 22,400.0              | 90.00           | 180.15      | 12,468.0              | -9,690.6     | 148.8        | 9,691.7                 | 0.00                    | 0.00                   | 0.00                  |
| 22,500.0              | 90.00           | 180.15      | 12,468.0              | -9,790.6     | 148.5        | 9,791.7                 | 0.00                    | 0.00                   | 0.00                  |
| 22,600.0              | 90.00           | 180.15      | 12,468.0              | -9,890.6     | 148.2        | 9,891.7                 | 0.00                    | 0.00                   | 0.00                  |
| 22,682.4              | 90.00           | 180.15      | 12,468.0              | -9,973.0     | 148.0        | 9,974.1                 | 0.00                    | 0.00                   | 0.00                  |

PBHL (Caravan 28 State Com #703H)





# Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.14                 | Local Co-ordinate Reference: | Well #703H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3550.0usft |
| Project:  | Lea County, NM (NAD 83 NME) | MD Reference:                | KB = 25 @ 3550.0usft |
| Site:     | Caravan 28 State Com        | North Reference:             | Grid                 |
| Well:     | #703H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.2                   |                              |                      |

| Design Targets                                                                                                                     |           |          |          |          |        |            |            |                  |                   |
|------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|--------|------------|------------|------------------|-------------------|
| Target Name                                                                                                                        |           |          |          |          |        |            |            |                  |                   |
| - hit/miss target                                                                                                                  | Dip Angle | Dip Dir. | TVD      | +N/-S    | +E/-W  | Northing   | Easting    | Latitude         | Longitude         |
| - Shape                                                                                                                            | (°)       | (°)      | (usft)   | (usft)   | (usft) | (usft)     | (usft)     |                  |                   |
| KOP (Caravan 28 State<br>- plan hits target center<br>- Point                                                                      | 0.00      | 0.00     | 11,990.5 | 434.0    | 176.0  | 435,761.00 | 774,171.00 | 32° 11' 44.679 N | 103° 34' 50.284 W |
| FTP (Caravan 28 State ( )<br>- plan misses target center by 163.5usft at 12401.4usft MD (12344.3 TVD, 277.1 N, 175.6 E)<br>- Point | 0.00      | 0.00     | 12,468.0 | 384.0    | 176.0  | 435,711.00 | 774,171.00 | 32° 11' 44.184 N | 103° 34' 50.288 W |
| PBHL (Caravan 28 State<br>- plan hits target center<br>- Point                                                                     | 0.00      | 0.00     | 12,468.0 | -9,973.0 | 148.0  | 425,354.00 | 774,143.00 | 32° 10' 1.701 N  | 103° 34' 51.457 W |