



## **EOG Resources - Midland**

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

**Quijote 2 State State Com**

**#713H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**29 May, 2019**

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Quijote 2 State State Com  
 Well: #713H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H  
 TVD Reference: KB = 25 @ 3366.0usft  
 MD Reference: KB = 25 @ 3366.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

|             |                             |               |                |
|-------------|-----------------------------|---------------|----------------|
| 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                  | Quijote 2 State State Com |              |                 |                   |                   |
| Site Position:        |                           | Northing:    | 393,067.00 usft | Latitude:         | 32° 4' 43.401 N   |
| From:                 | Map                       | Easting:     | 756,153.00 usft | Longitude:        | 103° 38' 23.163 W |
| Position Uncertainty: | 0.0 usft                  | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.37 °            |

|                      |       |           |                     |                 |               |                   |
|----------------------|-------|-----------|---------------------|-----------------|---------------|-------------------|
| Well                 | #713H |           |                     |                 |               |                   |
| Well Position        | +N/-S | 61.0 usft | Northing:           | 393,128.00 usft | Latitude:     | 32° 4' 44.001 N   |
|                      | +E/-W | 60.0 usft | Easting:            | 756,213.00 usft | Longitude:    | 103° 38' 22.462 W |
| Position Uncertainty |       | 0.0 usft  | Wellhead Elevation: |                 | Ground Level: | 3,341.0 usft      |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 5/29/2019   | 6.76            | 59.89         | 47,645.48331024     |

|                   |                            |                 |                 |                  |  |
|-------------------|----------------------------|-----------------|-----------------|------------------|--|
| Design            | Plan #0.1                  |                 |                 |                  |  |
| Audit Notes:      |                            |                 |                 |                  |  |
| Version:          | Phase:                     | PLAN            | Tie On Depth:   | 0.0              |  |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |  |
|                   | 0.0                        | 0.0             | 0.0             | 183.07           |  |

|                          |                    |                         |                     |         |  |
|--------------------------|--------------------|-------------------------|---------------------|---------|--|
| Plan Survey Tool Program | Date               | 5/29/2019               |                     |         |  |
| Depth From<br>(usft)     | Depth To<br>(usft) | Survey (Wellbore)       | Tool Name           | Remarks |  |
| 1                        | 0.0                | 17,333.1 Plan #0.1 (OH) | MWD                 |         |  |
|                          |                    |                         | OWSG MWD - Standard |         |  |

|                             |                    |                |                             |                 |                 |                               |                              |                             |            |                       |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-----------------------|
| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |                       |
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target                |
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                       |
| 750.0                       | 0.00               | 0.00           | 750.0                       | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                       |
| 966.7                       | 4.33               | 299.93         | 966.4                       | 4.1             | -7.1            | 2.00                          | 2.00                         | 0.00                        | 299.93     |                       |
| 7,301.9                     | 4.33               | 299.93         | 7,283.6                     | 242.9           | -421.9          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                       |
| 7,518.5                     | 0.00               | 0.01           | 7,500.0                     | 247.0           | -429.0          | 2.00                          | -2.00                        | 0.00                        | 180.00     |                       |
| 11,854.0                    | 0.00               | 0.01           | 11,835.5                    | 247.0           | -429.0          | 0.00                          | 0.00                         | 0.00                        | 0.00       | KOP(Quijote 2 State ( |
| 12,604.0                    | 90.00              | 178.21         | 12,313.0                    | -230.2          | -414.1          | 12.00                         | 12.00                        | 23.76                       | 178.21     |                       |
| 17,333.1                    | 90.00              | 178.21         | 12,313.0                    | -4,957.0        | -266.0          | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL(Quijote 2 State  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Quijote 2 State State Com  
 Well: #713H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H  
 TVD Reference: KB = 25 @ 3366.0usft  
 MD Reference: KB = 25 @ 3366.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 750.0                 | 0.00            | 0.00        | 750.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 1.00            | 299.93      | 800.0                 | 0.2          | -0.4         | -0.2                    | 2.00                    | 2.00                   | 0.00                  |
| 900.0                 | 3.00            | 299.93      | 899.9                 | 2.0          | -3.4         | -1.8                    | 2.00                    | 2.00                   | 0.00                  |
| 966.7                 | 4.33            | 299.93      | 966.4                 | 4.1          | -7.1         | -3.7                    | 2.00                    | 2.00                   | 0.00                  |
| 1,000.0               | 4.33            | 299.93      | 999.7                 | 5.3          | -9.3         | -4.8                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 4.33            | 299.93      | 1,099.4               | 9.1          | -15.8        | -8.3                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 4.33            | 299.93      | 1,199.1               | 12.9         | -22.4        | -11.7                   | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 4.33            | 299.93      | 1,298.8               | 16.7         | -28.9        | -15.1                   | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 4.33            | 299.93      | 1,398.6               | 20.4         | -35.5        | -18.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 4.33            | 299.93      | 1,498.3               | 24.2         | -42.0        | -21.9                   | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 4.33            | 299.93      | 1,598.0               | 28.0         | -48.6        | -25.3                   | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 4.33            | 299.93      | 1,697.7               | 31.7         | -55.1        | -28.7                   | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 4.33            | 299.93      | 1,797.4               | 35.5         | -61.7        | -32.1                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 4.33            | 299.93      | 1,897.1               | 39.3         | -68.2        | -35.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 4.33            | 299.93      | 1,996.8               | 43.0         | -74.8        | -39.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 4.33            | 299.93      | 2,096.6               | 46.8         | -81.3        | -42.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 4.33            | 299.93      | 2,196.3               | 50.6         | -87.9        | -45.8                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 4.33            | 299.93      | 2,296.0               | 54.4         | -94.4        | -49.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 4.33            | 299.93      | 2,395.7               | 58.1         | -100.9       | -52.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 4.33            | 299.93      | 2,495.4               | 61.9         | -107.5       | -56.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 4.33            | 299.93      | 2,595.1               | 65.7         | -114.0       | -59.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 4.33            | 299.93      | 2,694.8               | 69.4         | -120.6       | -62.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 4.33            | 299.93      | 2,794.6               | 73.2         | -127.1       | -66.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 4.33            | 299.93      | 2,894.3               | 77.0         | -133.7       | -69.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 4.33            | 299.93      | 2,994.0               | 80.7         | -140.2       | -73.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 4.33            | 299.93      | 3,093.7               | 84.5         | -146.8       | -76.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 4.33            | 299.93      | 3,193.4               | 88.3         | -153.3       | -79.9                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 4.33            | 299.93      | 3,293.1               | 92.0         | -159.9       | -83.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 4.33            | 299.93      | 3,392.8               | 95.8         | -166.4       | -86.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 4.33            | 299.93      | 3,492.6               | 99.6         | -173.0       | -90.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 4.33            | 299.93      | 3,592.3               | 103.4        | -179.5       | -93.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 4.33            | 299.93      | 3,692.0               | 107.1        | -186.1       | -97.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 4.33            | 299.93      | 3,791.7               | 110.9        | -192.6       | -100.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 4.33            | 299.93      | 3,891.4               | 114.7        | -199.2       | -103.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 4.33            | 299.93      | 3,991.1               | 118.4        | -205.7       | -107.2                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 4.33            | 299.93      | 4,090.8               | 122.2        | -212.3       | -110.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 4.33            | 299.93      | 4,190.6               | 126.0        | -218.8       | -114.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 4.33            | 299.93      | 4,290.3               | 129.7        | -225.4       | -117.5                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 4.33            | 299.93      | 4,390.0               | 133.5        | -231.9       | -120.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 4.33            | 299.93      | 4,489.7               | 137.3        | -238.4       | -124.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 4.33            | 299.93      | 4,589.4               | 141.1        | -245.0       | -127.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 4.33            | 299.93      | 4,689.1               | 144.8        | -251.5       | -131.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 4.33            | 299.93      | 4,788.8               | 148.6        | -258.1       | -134.6                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 4.33            | 299.93      | 4,888.6               | 152.4        | -264.6       | -138.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 4.33            | 299.93      | 4,988.3               | 156.1        | -271.2       | -141.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 4.33            | 299.93      | 5,088.0               | 159.9        | -277.7       | -144.8                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Quijote 2 State State Corn  
 Well: #713H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H  
 TVD Reference: KB = 25 @ 3366.0usft  
 MD Reference: KB = 25 @ 3366.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,200.0               | 4.33            | 299.93      | 5,187.7               | 163.7        | -284.3       | -148.2                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 4.33            | 299.93      | 5,287.4               | 167.4        | -290.8       | -151.6                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 4.33            | 299.93      | 5,387.1               | 171.2        | -297.4       | -155.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 4.33            | 299.93      | 5,486.8               | 175.0        | -303.9       | -158.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 4.33            | 299.93      | 5,586.6               | 178.8        | -310.5       | -161.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 4.33            | 299.93      | 5,686.3               | 182.5        | -317.0       | -165.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 4.33            | 299.93      | 5,786.0               | 186.3        | -323.6       | -168.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 4.33            | 299.93      | 5,885.7               | 190.1        | -330.1       | -172.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 4.33            | 299.93      | 5,985.4               | 193.8        | -336.7       | -175.5                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 4.33            | 299.93      | 6,085.1               | 197.6        | -343.2       | -178.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 4.33            | 299.93      | 6,184.8               | 201.4        | -349.8       | -182.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 4.33            | 299.93      | 6,284.5               | 205.1        | -356.3       | -185.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 4.33            | 299.93      | 6,384.3               | 208.9        | -362.9       | -189.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 4.33            | 299.93      | 6,484.0               | 212.7        | -369.4       | -192.6                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 4.33            | 299.93      | 6,583.7               | 216.5        | -375.9       | -196.0                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 4.33            | 299.93      | 6,683.4               | 220.2        | -382.5       | -199.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 4.33            | 299.93      | 6,783.1               | 224.0        | -389.0       | -202.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 4.33            | 299.93      | 6,882.8               | 227.8        | -395.6       | -206.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 4.33            | 299.93      | 6,982.5               | 231.5        | -402.1       | -209.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 4.33            | 299.93      | 7,082.3               | 235.3        | -408.7       | -213.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 4.33            | 299.93      | 7,182.0               | 239.1        | -415.2       | -216.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,301.9               | 4.33            | 299.93      | 7,283.6               | 242.9        | -421.9       | -220.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 2.37            | 299.93      | 7,381.5               | 245.8        | -426.9       | -222.5                  | 2.00                    | -2.00                  | 0.00                  |
| 7,500.0               | 0.37            | 299.93      | 7,481.5               | 247.0        | -428.9       | -223.6                  | 2.00                    | -2.00                  | 0.00                  |
| 7,518.5               | 0.00            | 0.01        | 7,500.0               | 247.0        | -429.0       | -223.7                  | 2.00                    | -2.00                  | 0.00                  |
| 7,600.0               | 0.00            | 0.00        | 7,581.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 0.00            | 0.00        | 7,681.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 0.00            | 0.00        | 7,781.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 0.00            | 0.00        | 7,881.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.00            | 0.00        | 7,981.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.00            | 0.00        | 8,081.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.00            | 0.00        | 8,181.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.00            | 0.00        | 8,281.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.00            | 0.00        | 8,381.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.00            | 0.00        | 8,481.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.00            | 0.00        | 8,581.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.00            | 0.00        | 8,681.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.00            | 0.00        | 8,781.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 0.00            | 0.00        | 8,881.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 0.00            | 0.00        | 8,981.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 0.00            | 0.00        | 9,081.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 0.00            | 0.00        | 9,181.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 0.00            | 0.00        | 9,281.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 0.00            | 0.00        | 9,381.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 0.00            | 0.00        | 9,481.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 0.00            | 0.00        | 9,581.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 0.00            | 0.00        | 9,681.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 0.00            | 0.00        | 9,781.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 0.00            | 0.00        | 9,881.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 0.00            | 0.00        | 9,981.5               | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 0.00            | 0.00        | 10,081.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 0.00            | 0.00        | 10,181.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 0.00            | 0.00        | 10,281.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 0.00            | 0.00        | 10,381.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Quljote 2 State State Com  
 Well: #713H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H  
 TVD Reference: KB = 25 @ 3366.0usft  
 MD Reference: KB = 25 @ 3366.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,500.0                              | 0.00            | 0.00        | 10,481.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                              | 0.00            | 0.00        | 10,581.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                              | 0.00            | 0.00        | 10,681.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                              | 0.00            | 0.00        | 10,781.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                              | 0.00            | 0.00        | 10,881.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                              | 0.00            | 0.00        | 10,981.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                              | 0.00            | 0.00        | 11,081.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                              | 0.00            | 0.00        | 11,181.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                              | 0.00            | 0.00        | 11,281.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                              | 0.00            | 0.00        | 11,381.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                              | 0.00            | 0.00        | 11,481.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                              | 0.00            | 0.00        | 11,581.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                              | 0.00            | 0.00        | 11,681.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                              | 0.00            | 0.00        | 11,781.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,854.0                              | 0.00            | 0.01        | 11,835.5              | 247.0        | -429.0       | -223.7                  | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP(Quljote 2 State Com #713H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,875.0                              | 2.52            | 178.21      | 11,856.5              | 246.5        | -429.0       | -223.2                  | 12.00                   | 12.00                  | 0.00                  |
| 11,900.0                              | 5.52            | 178.21      | 11,881.4              | 244.8        | -428.9       | -221.5                  | 12.00                   | 12.00                  | 0.00                  |
| 11,925.0                              | 8.52            | 178.21      | 11,906.2              | 241.7        | -428.8       | -218.4                  | 12.00                   | 12.00                  | 0.00                  |
| 11,950.0                              | 11.52           | 178.21      | 11,930.8              | 237.4        | -428.7       | -214.1                  | 12.00                   | 12.00                  | 0.00                  |
| 11,975.0                              | 14.52           | 178.21      | 11,955.2              | 231.8        | -428.5       | -208.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,000.0                              | 17.52           | 178.21      | 11,979.2              | 224.9        | -428.3       | -201.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,025.0                              | 20.52           | 178.21      | 12,002.8              | 216.7        | -428.1       | -193.5                  | 12.00                   | 12.00                  | 0.00                  |
| 12,050.0                              | 23.52           | 178.21      | 12,026.0              | 207.4        | -427.8       | -184.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,075.0                              | 26.52           | 178.21      | 12,048.7              | 196.8        | -427.4       | -173.6                  | 12.00                   | 12.00                  | 0.00                  |
| 12,100.0                              | 29.52           | 178.21      | 12,070.7              | 185.1        | -427.1       | -161.9                  | 12.00                   | 12.00                  | 0.00                  |
| 12,125.0                              | 32.52           | 178.21      | 12,092.2              | 172.2        | -426.7       | -149.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,150.0                              | 35.52           | 178.21      | 12,112.9              | 158.2        | -426.2       | -135.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,175.0                              | 38.52           | 178.21      | 12,132.8              | 143.2        | -425.7       | -120.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,200.0                              | 41.52           | 178.21      | 12,152.0              | 127.1        | -425.2       | -104.1                  | 12.00                   | 12.00                  | 0.00                  |
| 12,225.0                              | 44.52           | 178.21      | 12,170.3              | 110.1        | -424.7       | -87.1                   | 12.00                   | 12.00                  | 0.00                  |
| 12,250.0                              | 47.52           | 178.21      | 12,187.6              | 92.1         | -424.1       | -69.2                   | 12.00                   | 12.00                  | 0.00                  |
| 12,252.9                              | 47.87           | 178.21      | 12,189.6              | 89.9         | -424.1       | -67.0                   | 12.00                   | 12.00                  | 0.00                  |
| <b>FTP(Quljote 2 State Com #713H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,275.0                              | 50.52           | 178.21      | 12,204.0              | 73.2         | -423.6       | -50.4                   | 12.00                   | 12.00                  | 0.00                  |
| 12,300.0                              | 53.52           | 178.21      | 12,219.4              | 53.5         | -422.9       | -30.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,325.0                              | 56.52           | 178.21      | 12,233.7              | 33.0         | -422.3       | -10.4                   | 12.00                   | 12.00                  | 0.00                  |
| 12,350.0                              | 59.52           | 178.21      | 12,247.0              | 11.9         | -421.6       | 10.8                    | 12.00                   | 12.00                  | 0.00                  |
| 12,375.0                              | 62.52           | 178.21      | 12,259.1              | -10.0        | -421.0       | 32.5                    | 12.00                   | 12.00                  | 0.00                  |
| 12,400.0                              | 65.52           | 178.21      | 12,270.0              | -32.5        | -420.2       | 54.9                    | 12.00                   | 12.00                  | 0.00                  |
| 12,425.0                              | 68.52           | 178.21      | 12,279.8              | -55.5        | -419.5       | 77.9                    | 12.00                   | 12.00                  | 0.00                  |
| 12,450.0                              | 71.52           | 178.21      | 12,288.3              | -78.9        | -418.8       | 101.3                   | 12.00                   | 12.00                  | 0.00                  |
| 12,475.0                              | 74.52           | 178.21      | 12,295.6              | -102.8       | -418.0       | 125.1                   | 12.00                   | 12.00                  | 0.00                  |
| 12,500.0                              | 77.52           | 178.21      | 12,301.7              | -127.1       | -417.3       | 149.3                   | 12.00                   | 12.00                  | 0.00                  |
| 12,525.0                              | 80.52           | 178.21      | 12,306.4              | -151.6       | -416.5       | 173.7                   | 12.00                   | 12.00                  | 0.00                  |
| 12,550.0                              | 83.52           | 178.21      | 12,309.9              | -176.4       | -415.7       | 198.4                   | 12.00                   | 12.00                  | 0.00                  |
| 12,575.0                              | 86.52           | 178.21      | 12,312.1              | -201.2       | -415.0       | 223.2                   | 12.00                   | 12.00                  | 0.00                  |
| 12,600.0                              | 89.52           | 178.21      | 12,312.9              | -226.2       | -414.2       | 248.1                   | 12.00                   | 12.00                  | 0.00                  |
| 12,604.0                              | 90.00           | 178.21      | 12,313.0              | -230.2       | -414.1       | 252.1                   | 12.00                   | 12.00                  | 0.00                  |
| 12,700.0                              | 90.00           | 178.21      | 12,313.0              | -326.2       | -411.0       | 347.7                   | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                              | 90.00           | 178.21      | 12,313.0              | -426.1       | -407.9       | 447.4                   | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                              | 90.00           | 178.21      | 12,313.0              | -526.1       | -404.8       | 547.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                              | 90.00           | 178.21      | 12,313.0              | -626.0       | -401.7       | 646.6                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                              | 90.00           | 178.21      | 12,313.0              | -726.0       | -398.5       | 746.3                   | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Quijote 2 State State Com  
 Well: #713H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H  
 TVD Reference: KB = 25 @ 3366.0usft  
 MD Reference: KB = 25 @ 3366.0usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 13,200.0                    | 90.00              | 178.21         | 12,313.0                    | -825.9          | -395.4          | 845.9                         | 0.00                          | 0.00                         | 0.00                        |
| 13,300.0                    | 90.00              | 178.21         | 12,313.0                    | -925.9          | -392.3          | 945.6                         | 0.00                          | 0.00                         | 0.00                        |
| 13,400.0                    | 90.00              | 178.21         | 12,313.0                    | -1,025.8        | -389.1          | 1,045.2                       | 0.00                          | 0.00                         | 0.00                        |
| 13,500.0                    | 90.00              | 178.21         | 12,313.0                    | -1,125.8        | -386.0          | 1,144.8                       | 0.00                          | 0.00                         | 0.00                        |
| 13,600.0                    | 90.00              | 178.21         | 12,313.0                    | -1,225.7        | -382.9          | 1,244.5                       | 0.00                          | 0.00                         | 0.00                        |
| 13,700.0                    | 90.00              | 178.21         | 12,313.0                    | -1,325.7        | -379.7          | 1,344.1                       | 0.00                          | 0.00                         | 0.00                        |
| 13,800.0                    | 90.00              | 178.21         | 12,313.0                    | -1,425.6        | -376.6          | 1,443.8                       | 0.00                          | 0.00                         | 0.00                        |
| 13,900.0                    | 90.00              | 178.21         | 12,313.0                    | -1,525.6        | -373.5          | 1,543.4                       | 0.00                          | 0.00                         | 0.00                        |
| 14,000.0                    | 90.00              | 178.21         | 12,313.0                    | -1,625.5        | -370.3          | 1,643.0                       | 0.00                          | 0.00                         | 0.00                        |
| 14,100.0                    | 90.00              | 178.21         | 12,313.0                    | -1,725.5        | -367.2          | 1,742.7                       | 0.00                          | 0.00                         | 0.00                        |
| 14,200.0                    | 90.00              | 178.21         | 12,313.0                    | -1,825.4        | -364.1          | 1,842.3                       | 0.00                          | 0.00                         | 0.00                        |
| 14,300.0                    | 90.00              | 178.21         | 12,313.0                    | -1,925.4        | -361.0          | 1,942.0                       | 0.00                          | 0.00                         | 0.00                        |
| 14,400.0                    | 90.00              | 178.21         | 12,313.0                    | -2,025.3        | -357.8          | 2,041.6                       | 0.00                          | 0.00                         | 0.00                        |
| 14,500.0                    | 90.00              | 178.21         | 12,313.0                    | -2,125.3        | -354.7          | 2,141.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,600.0                    | 90.00              | 178.21         | 12,313.0                    | -2,225.2        | -351.6          | 2,240.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,700.0                    | 90.00              | 178.21         | 12,313.0                    | -2,325.2        | -348.4          | 2,340.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,800.0                    | 90.00              | 178.21         | 12,313.0                    | -2,425.1        | -345.3          | 2,440.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,900.0                    | 90.00              | 178.21         | 12,313.0                    | -2,525.1        | -342.2          | 2,539.8                       | 0.00                          | 0.00                         | 0.00                        |
| 15,000.0                    | 90.00              | 178.21         | 12,313.0                    | -2,625.0        | -339.0          | 2,639.4                       | 0.00                          | 0.00                         | 0.00                        |
| 15,100.0                    | 90.00              | 178.21         | 12,313.0                    | -2,725.0        | -335.9          | 2,739.1                       | 0.00                          | 0.00                         | 0.00                        |
| 15,200.0                    | 90.00              | 178.21         | 12,313.0                    | -2,824.9        | -332.8          | 2,838.7                       | 0.00                          | 0.00                         | 0.00                        |
| 15,300.0                    | 90.00              | 178.21         | 12,313.0                    | -2,924.9        | -329.6          | 2,938.4                       | 0.00                          | 0.00                         | 0.00                        |
| 15,400.0                    | 90.00              | 178.21         | 12,313.0                    | -3,024.8        | -326.5          | 3,038.0                       | 0.00                          | 0.00                         | 0.00                        |
| 15,500.0                    | 90.00              | 178.21         | 12,313.0                    | -3,124.8        | -323.4          | 3,137.6                       | 0.00                          | 0.00                         | 0.00                        |
| 15,600.0                    | 90.00              | 178.21         | 12,313.0                    | -3,224.7        | -320.3          | 3,237.3                       | 0.00                          | 0.00                         | 0.00                        |
| 15,700.0                    | 90.00              | 178.21         | 12,313.0                    | -3,324.7        | -317.1          | 3,336.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,800.0                    | 90.00              | 178.21         | 12,313.0                    | -3,424.6        | -314.0          | 3,436.5                       | 0.00                          | 0.00                         | 0.00                        |
| 15,900.0                    | 90.00              | 178.21         | 12,313.0                    | -3,524.6        | -310.9          | 3,536.2                       | 0.00                          | 0.00                         | 0.00                        |
| 16,000.0                    | 90.00              | 178.21         | 12,313.0                    | -3,624.5        | -307.7          | 3,635.8                       | 0.00                          | 0.00                         | 0.00                        |
| 16,100.0                    | 90.00              | 178.21         | 12,313.0                    | -3,724.5        | -304.6          | 3,735.5                       | 0.00                          | 0.00                         | 0.00                        |
| 16,200.0                    | 90.00              | 178.21         | 12,313.0                    | -3,824.4        | -301.5          | 3,835.1                       | 0.00                          | 0.00                         | 0.00                        |
| 16,300.0                    | 90.00              | 178.21         | 12,313.0                    | -3,924.4        | -298.3          | 3,934.7                       | 0.00                          | 0.00                         | 0.00                        |
| 16,400.0                    | 90.00              | 178.21         | 12,313.0                    | -4,024.3        | -295.2          | 4,034.4                       | 0.00                          | 0.00                         | 0.00                        |
| 16,500.0                    | 90.00              | 178.21         | 12,313.0                    | -4,124.3        | -292.1          | 4,134.0                       | 0.00                          | 0.00                         | 0.00                        |
| 16,600.0                    | 90.00              | 178.21         | 12,313.0                    | -4,224.3        | -289.0          | 4,233.7                       | 0.00                          | 0.00                         | 0.00                        |
| 16,700.0                    | 90.00              | 178.21         | 12,313.0                    | -4,324.2        | -285.8          | 4,333.3                       | 0.00                          | 0.00                         | 0.00                        |
| 16,800.0                    | 90.00              | 178.21         | 12,313.0                    | -4,424.2        | -282.7          | 4,432.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,900.0                    | 90.00              | 178.21         | 12,313.0                    | -4,524.1        | -279.6          | 4,532.6                       | 0.00                          | 0.00                         | 0.00                        |
| 17,000.0                    | 90.00              | 178.21         | 12,313.0                    | -4,624.1        | -276.4          | 4,632.2                       | 0.00                          | 0.00                         | 0.00                        |
| 17,100.0                    | 90.00              | 178.21         | 12,313.0                    | -4,724.0        | -273.3          | 4,731.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,200.0                    | 90.00              | 178.21         | 12,313.0                    | -4,824.0        | -270.2          | 4,831.5                       | 0.00                          | 0.00                         | 0.00                        |
| 17,300.0                    | 90.00              | 178.21         | 12,313.0                    | -4,923.9        | -267.0          | 4,931.1                       | 0.00                          | 0.00                         | 0.00                        |
| 17,333.1                    | 90.00              | 178.21         | 12,313.0                    | -4,957.0        | -266.0          | 4,964.1                       | 0.00                          | 0.00                         | 0.00                        |

PBHL(Quijote 2 State Com #713H)

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.14                 | <b>Local Co-ordinate Reference:</b> | Well #713H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3366.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>MD Reference:</b>                | KB = 25 @ 3366.0usft |
| <b>Site:</b>     | Quijote 2 State State Com   | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #713H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

| Design Targets                                                                             |           |          |          |          |        |            |            |                 |                   |
|--------------------------------------------------------------------------------------------|-----------|----------|----------|----------|--------|------------|------------|-----------------|-------------------|
| Target Name                                                                                | Dip Angle | Dip Dir. | TVD      | +N/-S    | +E/-W  | Northing   | Easting    | Latitude        | Longitude         |
| - hit/miss target                                                                          | (°)       | (°)      | (usft)   | (usft)   | (usft) | (usft)     | (usft)     |                 |                   |
| - Shape                                                                                    |           |          |          |          |        |            |            |                 |                   |
| KOP(Quijote 2 State Coi                                                                    | 0.00      | 0.01     | 11,835.5 | 247.0    | -429.0 | 393,375.00 | 755,784.00 | 32° 4' 46.473 N | 103° 38' 27.429 W |
| - plan hits target center                                                                  |           |          |          |          |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |          |        |            |            |                 |                   |
| FTP(Quijote 2 State Con                                                                    | 0.00      | 0.00     | 12,313.0 | 197.0    | -429.0 | 393,325.00 | 755,784.00 | 32° 4' 45.978 N | 103° 38' 27.433 W |
| - plan misses target center by 163.5usft at 12252.9usft MD (12189.6 TVD, 89.9 N, -424.1 E) |           |          |          |          |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |          |        |            |            |                 |                   |
| PBHL(Quijote 2 State Cr                                                                    | 0.00      | 0.00     | 12,313.0 | -4,957.0 | -266.0 | 388,171.00 | 755,947.00 | 32° 3' 54.966 N | 103° 38' 25.923 W |
| - plan hits target center                                                                  |           |          |          |          |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |          |        |            |            |                 |                   |