

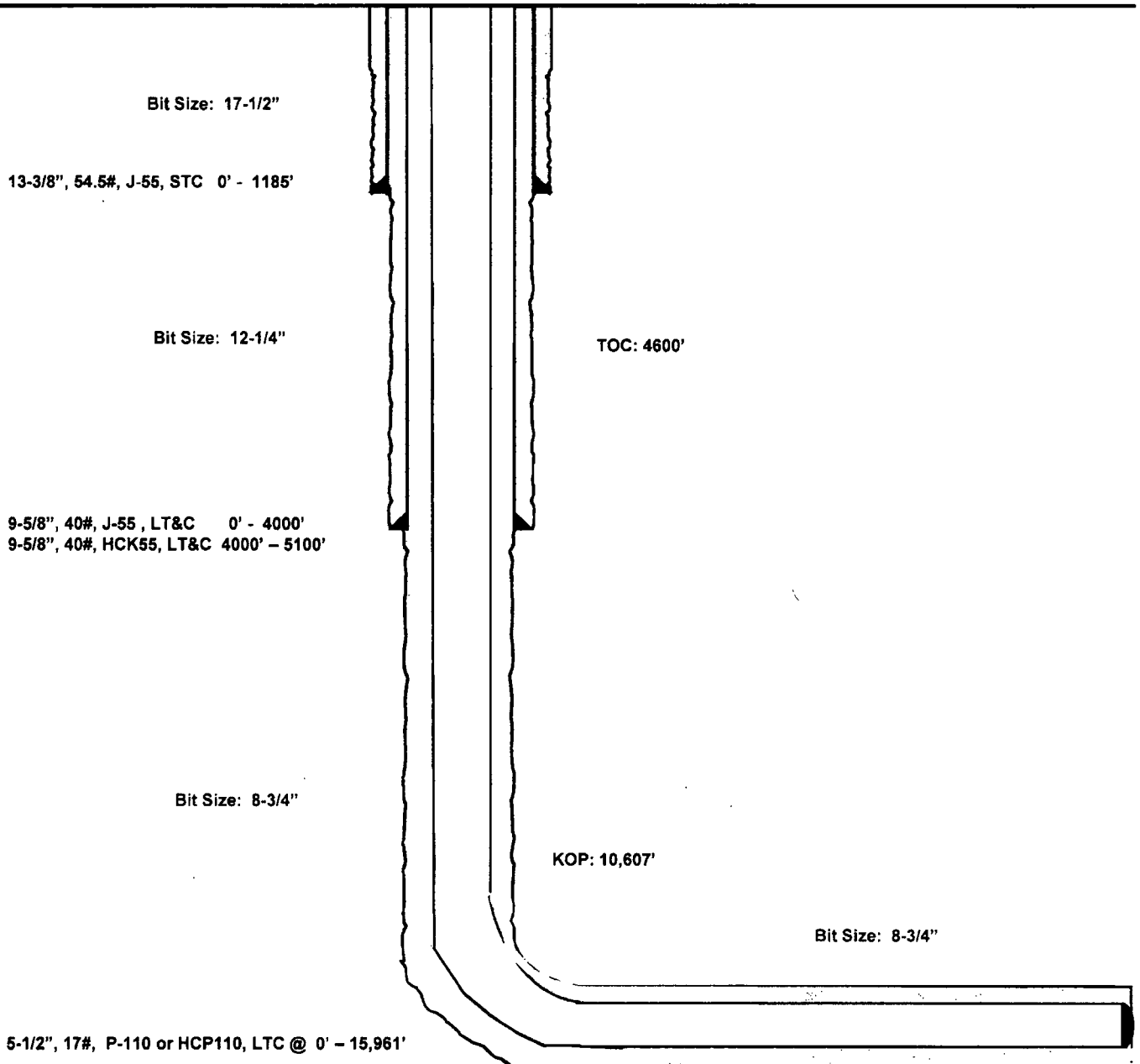
Dillon 31 #501H  
Lea County, New Mexico

371' FSL  
2473' FEL  
Section 31  
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-\*\*\*\*\*

KB: 3,470'  
GL: 3,445'



Lateral: 15,961' MD, 11,200' TVD

BH Location: 230' FNL & 2260' FEL  
Section 31  
T-24-S, R-34-E

FEB 12 2015



Lea County, NM (NAD 27 NME)

Dillon 31 #501H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1987 (Exact solution)  
Datum: NAD 1977 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level



Azimuths to Grid North  
True North: -0.64°  
Magnetic North: 8.74°

Magnetic Field  
Strength: 48154.5 nT  
Dip Angle: 60.03°  
Date: 2/4/2015  
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.74°  
To convert a Magnetic Direction to a True Direction, Add 7.10° East  
To convert a True Direction to a Grid Direction, Subtract 0.64°

WELL DETAILS: #501H

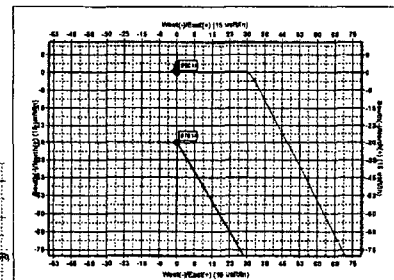
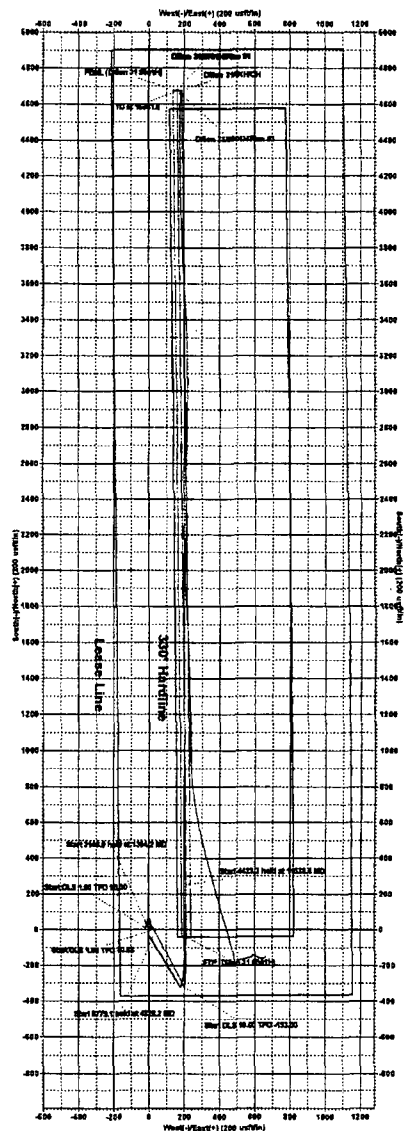
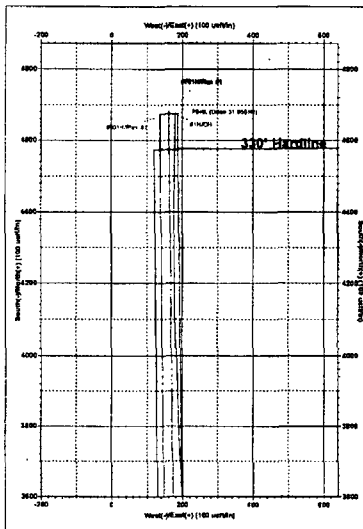
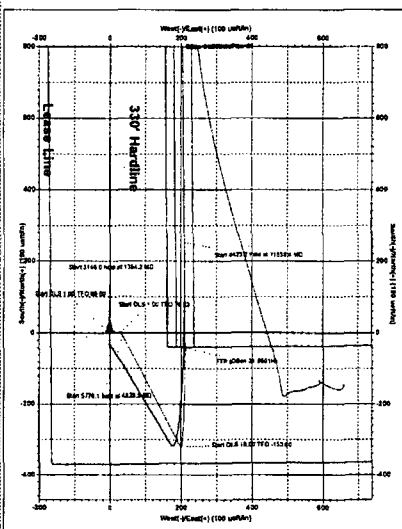
Ground Level: 3445.0  
K3 = 27 @ 3470.00 ft  
+N-S +E-W Northing Easting Longitude Slat  
0.0 0.0 425706.00 795369.00 32° 10' 3.685 N 103° 30' 28.661 W

SECTION DETAILS

| Sec | MD      | Inc   | Asl    | TVD     | +N-S   | +E-W  | Dleg  | TFace   | VFace  | Target | Annotation             |
|-----|---------|-------|--------|---------|--------|-------|-------|---------|--------|--------|------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0   | 0.00  | 0.00    | 0.0    |        |                        |
| 2   | 1300.0  | 0.00  | 0.00   | 1300.0  | 0.0    | 0.0   | 0.00  | 0.00    | 0.0    |        |                        |
| 3   | 1384.3  | 0.84  | 90.00  | 1384.3  | 0.0    | 0.3   | 1.00  | 80.00   | 0.0    |        |                        |
| 4   | 4800.1  | 0.84  | 90.00  | 4800.0  | 0.0    | 90.0  | 0.00  | 0.00    | 1.0    |        |                        |
| 5   | 4828.3  | 3.00  | 162.42 | 4827.8  | -4.9   | 38.2  | 1.00  | 70.83   | -7.6   |        |                        |
| 6   | 10607.3 | 3.00  | 162.42 | 10599.1 | -82.2  | 199.3 | 0.00  | 0.00    | -314.1 |        |                        |
| 7   | 11536.4 | 90.00 | 528.38 | 11200.0 | 281.0  | 209.9 | 10.00 | -163.00 | 281.1  |        |                        |
| 8   | 18861.8 | 90.00 | 359.38 | 11200.0 | 4874.0 | 162.0 | 0.00  | 0.00    | 4876.8 |        | PBHL (Dillon 31 #501H) |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                   | TVD     | +N-S   | +E-W  | Northing  | Easting   | Shape                         |
|------------------------|---------|--------|-------|-----------|-----------|-------------------------------|
| FTP (Dillon 31 #501H)  | 11200.0 | -39.0  | 213.0 | 425687.00 | 795811.00 | Point                         |
| PBHL (Dillon 31 #501H) | 11200.0 | 4874.0 | 162.0 | 425280.00 | 788560.00 | Rectangle (Sides: L0.0 W00.0) |



Vertical Section at 1.00" (200 units)



## **EOG Resources - Midland**

**Lea County, NM (NAD 27 NME)**

**Dillon 31**

**#501H**

**OH**

**Plan: Plan #1**

## **Standard Survey Report**

**04 February, 2015**



# EOG Resources, Inc.

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** KB = 25' @ 3470.0usft  
**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

|                    |                                      |
|--------------------|--------------------------------------|
| <b>Project</b>     | Lea County, NM (NAD 27 NME)          |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |
| <b>Map Zone:</b>   | New Mexico East 3001                 |

|                       |           |              |                 |                   |                   |
|-----------------------|-----------|--------------|-----------------|-------------------|-------------------|
| Site                  | Dillon 31 |              |                 |                   |                   |
| Site Position:        |           | Northing:    | 425,706.00 usft | Latitude:         | 32° 10' 3.685 N   |
| From:                 | Map       | Easting:     | 755,398.00 usft | Longitude:        | 103° 30' 28.661 W |
| Position Uncertainty: | 0.0 usft  | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.44 °            |

|                             |             |          |                            |                 |                                     |
|-----------------------------|-------------|----------|----------------------------|-----------------|-------------------------------------|
| <b>Well</b>                 | #501H       |          |                            |                 |                                     |
| <b>Well Position</b>        | <b>+N-S</b> | 0.0 usft | <b>Northing:</b>           | 425,706.00 usft | <b>Latitude:</b> 32° 10' 3.685 N    |
|                             | <b>+E-W</b> | 0.0 usft | <b>Easting:</b>            | 755,398.00 usft | <b>Longitude:</b> 103° 30' 28.661 W |
| <b>Position Uncertainty</b> |             | 0.0 usft | <b>Wellhead Elevation:</b> | 0.0 usft        | <b>Ground Level:</b> 3,445.0 usft   |

|           |            |             |                    |                  |                        |
|-----------|------------|-------------|--------------------|------------------|------------------------|
| Wellbore  | OH         |             |                    |                  |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2015   | 2/4/2015    | 7.18               | 60.05            | 48,155                 |

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design            | Plan #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>(°) |
|                   | 11,200.0                   | 0.0             | 0.0             | 1.99             |

|                     |          |                   |           |                |  |
|---------------------|----------|-------------------|-----------|----------------|--|
| Survey Tool Program |          | Date              | 2/4/2015  |                |  |
| From                | To       | Survey (Wellbore) | Tool Name | Description    |  |
| (usft)              | (usft)   |                   |           |                |  |
| 0.0                 | 15,961.6 | Plan #1 (OH)      | MWD       | MWD - Standard |  |

| 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) |
| 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                        |



# EOG Resources, Inc.

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** KB = 25' @ 3470.0usft  
**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 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                  |
| 1,354.2               | 0.54            | 90.00       | 1,354.2               | 0.0          | 0.3          | 0.0                     | 1.00                    | 1.00                   | 0.00                  |
| 1,400.0               | 0.54            | 90.00       | 1,400.0               | 0.0          | 0.7          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.54            | 90.00       | 1,500.0               | 0.0          | 1.6          | 0.1                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 0.54            | 90.00       | 1,600.0               | 0.0          | 2.6          | 0.1                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.54            | 90.00       | 1,700.0               | 0.0          | 3.5          | 0.1                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.54            | 90.00       | 1,800.0               | 0.0          | 4.5          | 0.2                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.54            | 90.00       | 1,900.0               | 0.0          | 5.4          | 0.2                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.54            | 90.00       | 2,000.0               | 0.0          | 6.4          | 0.2                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.54            | 90.00       | 2,100.0               | 0.0          | 7.3          | 0.3                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 0.54            | 90.00       | 2,200.0               | 0.0          | 8.3          | 0.3                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 0.54            | 90.00       | 2,300.0               | 0.0          | 9.2          | 0.3                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 0.54            | 90.00       | 2,400.0               | 0.0          | 10.1         | 0.4                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 0.54            | 90.00       | 2,499.9               | 0.0          | 11.1         | 0.4                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 0.54            | 90.00       | 2,599.9               | 0.0          | 12.0         | 0.4                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 0.54            | 90.00       | 2,699.9               | 0.0          | 13.0         | 0.4                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 0.54            | 90.00       | 2,799.9               | 0.0          | 13.9         | 0.5                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 0.54            | 90.00       | 2,899.9               | 0.0          | 14.9         | 0.5                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 0.54            | 90.00       | 2,999.9               | 0.0          | 15.8         | 0.5                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 0.54            | 90.00       | 3,099.9               | 0.0          | 16.8         | 0.6                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 0.54            | 90.00       | 3,199.9               | 0.0          | 17.7         | 0.6                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 0.54            | 90.00       | 3,299.9               | 0.0          | 18.7         | 0.6                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 0.54            | 90.00       | 3,399.9               | 0.0          | 19.6         | 0.7                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 0.54            | 90.00       | 3,499.9               | 0.0          | 20.5         | 0.7                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 0.54            | 90.00       | 3,599.9               | 0.0          | 21.5         | 0.7                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 0.54            | 90.00       | 3,699.9               | 0.0          | 22.4         | 0.8                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 0.54            | 90.00       | 3,799.9               | 0.0          | 23.4         | 0.8                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 0.54            | 90.00       | 3,899.9               | 0.0          | 24.3         | 0.8                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 0.54            | 90.00       | 3,999.9               | 0.0          | 25.3         | 0.9                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 0.54            | 90.00       | 4,099.9               | 0.0          | 26.2         | 0.9                     | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 0.54            | 90.00       | 4,199.9               | 0.0          | 27.2         | 0.9                     | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 0.54            | 90.00       | 4,299.9               | 0.0          | 28.1         | 1.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 0.54            | 90.00       | 4,399.9               | 0.0          | 29.1         | 1.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,500.1               | 0.54            | 90.00       | 4,500.0               | 0.0          | 30.0         | 1.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 1.28            | 137.33      | 4,599.8               | -0.8         | 31.2         | 0.3                     | 1.00                    | 0.74                   | 47.39                 |
| 4,700.0               | 2.24            | 147.60      | 4,699.8               | -3.3         | 33.0         | -2.1                    | 1.00                    | 0.95                   | 10.28                 |
| 4,800.0               | 3.22            | 151.69      | 4,799.7               | -7.4         | 35.4         | -6.2                    | 1.00                    | 0.98                   | 4.08                  |
| 4,828.2               | 3.50            | 152.42      | 4,827.8               | -8.9         | 36.2         | -7.6                    | 1.00                    | 0.99                   | 2.61                  |
| 4,900.0               | 3.50            | 152.42      | 4,899.5               | -12.7        | 38.2         | -11.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 3.50            | 152.42      | 4,999.3               | -18.2        | 41.0         | -16.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 3.50            | 152.42      | 5,099.1               | -23.6        | 43.9         | -22.0                   | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

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**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

### 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) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,200.0                     | 3.50               | 152.42         | 5,198.9                     | -29.0           | 46.7            | -27.3                         | 0.00                          | 0.00                         | 0.00                        |
| 5,300.0                     | 3.50               | 152.42         | 5,298.8                     | -34.4           | 49.5            | -32.6                         | 0.00                          | 0.00                         | 0.00                        |
| 5,400.0                     | 3.50               | 152.42         | 5,398.6                     | -39.8           | 52.3            | -37.9                         | 0.00                          | 0.00                         | 0.00                        |
| 5,500.0                     | 3.50               | 152.42         | 5,498.4                     | -45.2           | 55.1            | -43.2                         | 0.00                          | 0.00                         | 0.00                        |
| 5,600.0                     | 3.50               | 152.42         | 5,598.2                     | -50.6           | 58.0            | -48.5                         | 0.00                          | 0.00                         | 0.00                        |
| 5,700.0                     | 3.50               | 152.42         | 5,698.0                     | -56.0           | 60.8            | -53.9                         | 0.00                          | 0.00                         | 0.00                        |
| 5,800.0                     | 3.50               | 152.42         | 5,797.8                     | -61.4           | 63.6            | -59.2                         | 0.00                          | 0.00                         | 0.00                        |
| 5,900.0                     | 3.50               | 152.42         | 5,897.6                     | -66.8           | 66.4            | -64.5                         | 0.00                          | 0.00                         | 0.00                        |
| 6,000.0                     | 3.50               | 152.42         | 5,997.5                     | -72.2           | 69.3            | -69.8                         | 0.00                          | 0.00                         | 0.00                        |
| 6,100.0                     | 3.50               | 152.42         | 6,097.3                     | -77.6           | 72.1            | -75.1                         | 0.00                          | 0.00                         | 0.00                        |
| 6,200.0                     | 3.50               | 152.42         | 6,197.1                     | -83.0           | 74.9            | -80.4                         | 0.00                          | 0.00                         | 0.00                        |
| 6,300.0                     | 3.50               | 152.42         | 6,296.9                     | -88.4           | 77.7            | -85.7                         | 0.00                          | 0.00                         | 0.00                        |
| 6,400.0                     | 3.50               | 152.42         | 6,396.7                     | -93.8           | 80.6            | -91.0                         | 0.00                          | 0.00                         | 0.00                        |
| 6,500.0                     | 3.50               | 152.42         | 6,496.5                     | -99.2           | 83.4            | -96.3                         | 0.00                          | 0.00                         | 0.00                        |
| 6,600.0                     | 3.50               | 152.42         | 6,596.3                     | -104.6          | 86.2            | -101.6                        | 0.00                          | 0.00                         | 0.00                        |
| 6,700.0                     | 3.50               | 152.42         | 6,696.2                     | -110.0          | 89.0            | -106.9                        | 0.00                          | 0.00                         | 0.00                        |
| 6,800.0                     | 3.50               | 152.42         | 6,796.0                     | -115.4          | 91.8            | -112.2                        | 0.00                          | 0.00                         | 0.00                        |
| 6,900.0                     | 3.50               | 152.42         | 6,895.8                     | -120.9          | 94.7            | -117.5                        | 0.00                          | 0.00                         | 0.00                        |
| 7,000.0                     | 3.50               | 152.42         | 6,995.6                     | -126.3          | 97.5            | -122.8                        | 0.00                          | 0.00                         | 0.00                        |
| 7,100.0                     | 3.50               | 152.42         | 7,095.4                     | -131.7          | 100.3           | -128.1                        | 0.00                          | 0.00                         | 0.00                        |
| 7,200.0                     | 3.50               | 152.42         | 7,195.2                     | -137.1          | 103.1           | -133.4                        | 0.00                          | 0.00                         | 0.00                        |
| 7,300.0                     | 3.50               | 152.42         | 7,295.0                     | -142.5          | 106.0           | -138.7                        | 0.00                          | 0.00                         | 0.00                        |
| 7,400.0                     | 3.50               | 152.42         | 7,394.8                     | -147.9          | 108.8           | -144.0                        | 0.00                          | 0.00                         | 0.00                        |
| 7,500.0                     | 3.50               | 152.42         | 7,494.7                     | -153.3          | 111.6           | -149.3                        | 0.00                          | 0.00                         | 0.00                        |
| 7,600.0                     | 3.50               | 152.42         | 7,594.5                     | -158.7          | 114.4           | -154.6                        | 0.00                          | 0.00                         | 0.00                        |
| 7,700.0                     | 3.50               | 152.42         | 7,694.3                     | -164.1          | 117.3           | -159.9                        | 0.00                          | 0.00                         | 0.00                        |
| 7,800.0                     | 3.50               | 152.42         | 7,794.1                     | -169.5          | 120.1           | -165.2                        | 0.00                          | 0.00                         | 0.00                        |
| 7,900.0                     | 3.50               | 152.42         | 7,893.9                     | -174.9          | 122.9           | -170.5                        | 0.00                          | 0.00                         | 0.00                        |
| 8,000.0                     | 3.50               | 152.42         | 7,993.7                     | -180.3          | 125.7           | -175.8                        | 0.00                          | 0.00                         | 0.00                        |
| 8,100.0                     | 3.50               | 152.42         | 8,093.5                     | -185.7          | 128.5           | -181.2                        | 0.00                          | 0.00                         | 0.00                        |
| 8,200.0                     | 3.50               | 152.42         | 8,193.4                     | -191.1          | 131.4           | -186.5                        | 0.00                          | 0.00                         | 0.00                        |
| 8,300.0                     | 3.50               | 152.42         | 8,293.2                     | -196.5          | 134.2           | -191.8                        | 0.00                          | 0.00                         | 0.00                        |
| 8,400.0                     | 3.50               | 152.42         | 8,393.0                     | -201.9          | 137.0           | -197.1                        | 0.00                          | 0.00                         | 0.00                        |
| 8,500.0                     | 3.50               | 152.42         | 8,492.8                     | -207.3          | 139.8           | -202.4                        | 0.00                          | 0.00                         | 0.00                        |
| 8,600.0                     | 3.50               | 152.42         | 8,592.6                     | -212.7          | 142.7           | -207.7                        | 0.00                          | 0.00                         | 0.00                        |
| 8,700.0                     | 3.50               | 152.42         | 8,692.4                     | -218.1          | 145.5           | -213.0                        | 0.00                          | 0.00                         | 0.00                        |
| 8,800.0                     | 3.50               | 152.42         | 8,792.2                     | -223.6          | 148.3           | -218.3                        | 0.00                          | 0.00                         | 0.00                        |
| 8,900.0                     | 3.50               | 152.42         | 8,892.1                     | -229.0          | 151.1           | -223.6                        | 0.00                          | 0.00                         | 0.00                        |
| 9,000.0                     | 3.50               | 152.42         | 8,991.9                     | -234.4          | 154.0           | -228.9                        | 0.00                          | 0.00                         | 0.00                        |
| 9,100.0                     | 3.50               | 152.42         | 9,091.7                     | -239.8          | 156.8           | -234.2                        | 0.00                          | 0.00                         | 0.00                        |
| 9,200.0                     | 3.50               | 152.42         | 9,191.5                     | -245.2          | 159.6           | -239.5                        | 0.00                          | 0.00                         | 0.00                        |
| 9,300.0                     | 3.50               | 152.42         | 9,291.3                     | -250.6          | 162.4           | -244.8                        | 0.00                          | 0.00                         | 0.00                        |
| 9,400.0                     | 3.50               | 152.42         | 9,391.1                     | -256.0          | 165.2           | -250.1                        | 0.00                          | 0.00                         | 0.00                        |



# EOG Resources, Inc.

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** KB = 25' @ 3470.0usft  
**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,500.0               | 3.50            | 152.42      | 9,490.9               | -261.4       | 168.1        | -255.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 3.50            | 152.42      | 9,590.8               | -266.8       | 170.9        | -260.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 3.50            | 152.42      | 9,690.6               | -272.2       | 173.7        | -266.0                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 3.50            | 152.42      | 9,790.4               | -277.6       | 176.5        | -271.3                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 3.50            | 152.42      | 9,890.2               | -283.0       | 179.4        | -276.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 3.50            | 152.42      | 9,990.0               | -288.4       | 182.2        | -281.9                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 3.50            | 152.42      | 10,089.8              | -293.8       | 185.0        | -287.2                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 3.50            | 152.42      | 10,189.6              | -299.2       | 187.8        | -292.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 3.50            | 152.42      | 10,289.5              | -304.6       | 190.7        | -297.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 3.50            | 152.42      | 10,389.3              | -310.0       | 193.5        | -303.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 3.50            | 152.42      | 10,489.1              | -315.4       | 196.3        | -308.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,607.3              | 3.50            | 152.42      | 10,596.1              | -321.2       | 199.3        | -314.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,650.0              | 1.96            | 53.22       | 10,638.8              | -322.0       | 200.5        | -314.8                  | 10.00                   | -3.58                  | -232.06               |
| 10,700.0              | 6.36            | 13.77       | 10,688.7              | -318.7       | 201.9        | -311.6                  | 10.00                   | 8.79                   | -78.90                |
| 10,750.0              | 11.27           | 7.37        | 10,738.1              | -311.2       | 203.2        | -304.0                  | 10.00                   | 9.82                   | -12.80                |
| 10,800.0              | 16.23           | 4.84        | 10,786.7              | -299.4       | 204.4        | -292.1                  | 10.00                   | 9.93                   | -5.06                 |
| 10,850.0              | 21.22           | 3.47        | 10,834.0              | -283.4       | 205.5        | -276.1                  | 10.00                   | 9.96                   | -2.73                 |
| 10,900.0              | 26.20           | 2.61        | 10,879.8              | -263.3       | 206.6        | -256.0                  | 10.00                   | 9.98                   | -1.73                 |
| 10,950.0              | 31.20           | 2.00        | 10,923.6              | -239.3       | 207.5        | -232.0                  | 10.00                   | 9.98                   | -1.21                 |
| 11,000.0              | 36.19           | 1.55        | 10,965.2              | -211.6       | 208.4        | -204.3                  | 10.00                   | 9.99                   | -0.90                 |
| 11,050.0              | 41.18           | 1.19        | 11,004.2              | -180.4       | 209.1        | -173.0                  | 10.00                   | 9.99                   | -0.71                 |
| 11,100.0              | 46.18           | 0.90        | 11,040.4              | -145.9       | 209.7        | -138.5                  | 10.00                   | 9.99                   | -0.58                 |
| 11,150.0              | 51.18           | 0.66        | 11,073.4              | -108.3       | 210.2        | -101.0                  | 10.00                   | 9.99                   | -0.49                 |
| 11,200.0              | 56.17           | 0.44        | 11,103.0              | -68.1        | 210.6        | -60.7                   | 10.00                   | 9.99                   | -0.43                 |
| 11,250.0              | 61.17           | 0.25        | 11,129.0              | -25.4        | 210.9        | -18.0                   | 10.00                   | 9.99                   | -0.38                 |
| 11,300.0              | 66.17           | 0.08        | 11,151.1              | 19.4         | 211.0        | 26.7                    | 10.00                   | 10.00                  | -0.35                 |
| 11,350.0              | 71.17           | 359.92      | 11,169.3              | 66.0         | 211.0        | 73.3                    | 10.00                   | 10.00                  | -0.32                 |
| 11,400.0              | 76.16           | 359.77      | 11,183.4              | 114.0        | 210.9        | 121.2                   | 10.00                   | 10.00                  | -0.30                 |
| 11,450.0              | 81.16           | 359.63      | 11,193.2              | 163.0        | 210.6        | 170.2                   | 10.00                   | 10.00                  | -0.29                 |
| 11,500.0              | 86.16           | 359.49      | 11,198.7              | 212.6        | 210.2        | 219.8                   | 10.00                   | 10.00                  | -0.28                 |
| 11,538.4              | 90.00           | 359.38      | 11,200.0              | 251.0        | 209.9        | 258.1                   | 10.00                   | 10.00                  | -0.28                 |
| 11,600.0              | 90.00           | 359.38      | 11,200.0              | 312.6        | 209.2        | 319.7                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 90.00           | 359.38      | 11,200.0              | 412.6        | 208.1        | 419.6                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 90.00           | 359.38      | 11,200.0              | 512.6        | 207.0        | 519.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 90.00           | 359.38      | 11,200.0              | 612.6        | 205.9        | 619.4                   | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 90.00           | 359.38      | 11,200.0              | 712.6        | 204.9        | 719.3                   | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 90.00           | 359.38      | 11,200.0              | 812.6        | 203.8        | 819.2                   | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 90.00           | 359.38      | 11,200.0              | 912.6        | 202.7        | 919.0                   | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 90.00           | 359.38      | 11,200.0              | 1,012.6      | 201.6        | 1,018.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 90.00           | 359.38      | 11,200.0              | 1,112.6      | 200.5        | 1,118.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 90.00           | 359.38      | 11,200.0              | 1,212.6      | 199.5        | 1,218.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 90.00           | 359.38      | 11,200.0              | 1,312.6      | 198.4        | 1,318.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 90.00           | 359.38      | 11,200.0              | 1,412.5      | 197.3        | 1,418.5                 | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** KB = 25' @ 3470.0usft  
**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,800.0              | 90.00           | 359.38      | 11,200.0              | 1,512.5      | 196.2        | 1,518.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.00           | 359.38      | 11,200.0              | 1,612.5      | 195.1        | 1,618.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.00           | 359.38      | 11,200.0              | 1,712.5      | 194.0        | 1,718.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.00           | 359.38      | 11,200.0              | 1,812.5      | 193.0        | 1,818.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.00           | 359.38      | 11,200.0              | 1,912.5      | 191.9        | 1,918.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 359.38      | 11,200.0              | 2,012.5      | 190.8        | 2,017.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 359.38      | 11,200.0              | 2,112.5      | 189.7        | 2,117.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 359.38      | 11,200.0              | 2,212.5      | 188.6        | 2,217.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 359.38      | 11,200.0              | 2,312.5      | 187.6        | 2,317.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 359.38      | 11,200.0              | 2,412.5      | 186.5        | 2,417.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 359.38      | 11,200.0              | 2,512.5      | 185.4        | 2,517.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 359.38      | 11,200.0              | 2,612.5      | 184.3        | 2,617.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 359.38      | 11,200.0              | 2,712.5      | 183.2        | 2,717.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 359.38      | 11,200.0              | 2,812.5      | 182.1        | 2,817.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 359.38      | 11,200.0              | 2,912.5      | 181.1        | 2,917.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 359.38      | 11,200.0              | 3,012.5      | 180.0        | 3,016.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 359.38      | 11,200.0              | 3,112.4      | 178.9        | 3,116.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 359.38      | 11,200.0              | 3,212.4      | 177.8        | 3,216.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 359.38      | 11,200.0              | 3,312.4      | 176.7        | 3,316.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 359.38      | 11,200.0              | 3,412.4      | 175.7        | 3,416.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 359.38      | 11,200.0              | 3,512.4      | 174.6        | 3,516.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 359.38      | 11,200.0              | 3,612.4      | 173.5        | 3,616.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 359.38      | 11,200.0              | 3,712.4      | 172.4        | 3,716.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 359.38      | 11,200.0              | 3,812.4      | 171.3        | 3,816.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 359.38      | 11,200.0              | 3,912.4      | 170.2        | 3,915.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 359.38      | 11,200.0              | 4,012.4      | 169.2        | 4,015.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 359.38      | 11,200.0              | 4,112.4      | 168.1        | 4,115.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 359.38      | 11,200.0              | 4,212.4      | 167.0        | 4,215.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 359.38      | 11,200.0              | 4,312.4      | 165.9        | 4,315.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 359.38      | 11,200.0              | 4,412.4      | 164.8        | 4,415.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 359.38      | 11,200.0              | 4,512.4      | 163.7        | 4,515.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 359.38      | 11,200.0              | 4,612.4      | 162.7        | 4,615.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,961.6              | 90.00           | 359.38      | 11,200.0              | 4,674.0      | 162.0        | 4,676.8                 | 0.00                    | 0.00                   | 0.00                  |

**EOG Resources, Inc.**

## Survey Report

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 27 NME)  
**Site:** Dillon 31  
**Well:** #501H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #501H  
**TVD Reference:** KB = 25' @ 3470.0usft  
**MD Reference:** KB = 25' @ 3470.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

**Design Targets****Target Name**

| - hit/miss target<br>- Shape                                                                                                 | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |
|------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| PBHL (Dillon 31 #501H)<br>- plan hits target center<br>- Point                                                               | 0.00             | 0.00            | 11,200.0      | 4,674.0         | 162.0           | 430,380.00         | 755,560.00        | 32° 10' 49.924 N | 103° 30' 26.359 W |
| FTP (Dillon 31 #501H)<br>- plan misses target center by 69.2usft at 11269.3usft MD (11138.0 TVD, -8.3 N, 211.0 E)<br>- Point | 0.00             | 0.00            | 11,200.0      | -39.0           | 213.0           | 425,667.00         | 755,611.00        | 32° 10' 3.283 N  | 103° 30' 26.187 W |

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_