eog resources

# EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Dragon 36 State
#701H

OH

Plan: Plan #1

# Standard Planning Report

08 December, 2014

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #701H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Project:** | Lea County, NM (NAD 27 NME) | **MD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Site:** | Dragon 36 State | **North Reference:** | Grid |
| **Well:** | #701H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

| | | | |
|---|---|---|---|
| **Project** | Lea County, NM (NAD 27 NME) | | |
| **Map System:** | US State Plane 1927 (Exact solution) | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | NAD 1927 (NADCON CONUS) | | |
| **Map Zone:** | New Mexico East 3001 | | |

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|---|---|---|---|---|---|
| **Site** | Dragon 36 State | | | | |
| **Site Position:** | | **Northing:** | 425,530.00 usft | **Latitude:** | 32° 10' 2.209 N |
| **From:** | Map | **Easting:** | 751,878.00 usft | **Longitude:** | 103° 31' 9.625 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.43 ° |

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|---|---|---|---|---|---|---|
| **Well** | #701H | | | | | |
| **Well Position** | **+N/-S** | 4,472.0 usft | **Northing:** | 430,002.00 usft | **Latitude:** | 32° 10' 46.563 N |
| | **+E/-W** | -1,357.0 usft | **Easting:** | 750,521.00 usft | **Longitude:** | 103° 31' 25.020 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | 0.0 usft | **Ground Level:** | 3,507.0 usft |

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|---|---|---|---|---|---|
| **Wellbore** | OH | | | | |
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | IGRF201014 | 1/11/2015 | 7.12 | 60.06 | 48,236 |

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|---|---|---|---|---|---|
| **Design** | Plan #1 | | | | |
| **Audit Notes:** | | | | | |
| **Version:** | | **Phase:** | PLAN | **Tie On Depth:** | 0.0 |
| **Vertical Section:** | **Depth From (TVD) (usft)** | **+N/-S (usft)** | **+E/-W (usft)** | **Direction (°)** | |
| | 0.0 | 0.0 | 0.0 | 174.16 | |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,530.7 | 0.31 | 90.00 | 4,530.7 | 0.0 | 0.1 | 1.00 | 1.00 | 292.90 | 90.00 | |
| 6,380.0 | 0.31 | 90.00 | 6,380.0 | 0.0 | 10.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,062.2 | 6.99 | 35.01 | 7,060.4 | 34.1 | 35.7 | 1.00 | 0.98 | -8.06 | -57.10 | |
| 12,015.1 | 6.99 | 35.01 | 11,976.5 | 528.0 | 381.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,812.5 | 90.00 | 179.56 | 12,500.0 | 53.2 | 422.5 | 12.00 | 10.41 | 18.13 | 144.35 | |
| 17,332.8 | 90.00 | 179.56 | 12,500.0 | -4,467.0 | 457.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(Dragon 36 Stat |

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| **Project:** | Lea County, NM (NAD 27 NME) | **MD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Site:** | Dragon 36 State | **North Reference:** | Grid |
| **Well:** | #701H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,530.7 | 0.31 | 90.00 | 4,530.7 | 0.0 | 0.1 | 0.0 | 1.00 | 1.00 | 0.00 |
| 4,600.0 | 0.31 | 90.00 | 4,600.0 | 0.0 | 0.5 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.31 | 90.00 | 4,700.0 | 0.0 | 1.0 | 0.1 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.31 | 90.00 | 4,800.0 | 0.0 | 1.5 | 0.2 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.31 | 90.00 | 4,900.0 | 0.0 | 2.1 | 0.2 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.31 | 90.00 | 5,000.0 | 0.0 | 2.6 | 0.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.31 | 90.00 | 5,100.0 | 0.0 | 3.1 | 0.3 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.31 | 90.00 | 5,200.0 | 0.0 | 3.7 | 0.4 | 0.00 | 0.00 | 0.00 |

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| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,300.0 | 0.31 | 90.00 | 5,300.0 | 0.0 | 4.2 | 0.4 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.31 | 90.00 | 5,400.0 | 0.0 | 4.7 | 0.5 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.31 | 90.00 | 5,500.0 | 0.0 | 5.3 | 0.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.31 | 90.00 | 5,600.0 | 0.0 | 5.8 | 0.6 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 0.31 | 90.00 | 5,700.0 | 0.0 | 6.4 | 0.6 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.31 | 90.00 | 5,800.0 | 0.0 | 6.9 | 0.7 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.31 | 90.00 | 5,900.0 | 0.0 | 7.4 | 0.8 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.31 | 90.00 | 6,000.0 | 0.0 | 8.0 | 0.8 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 0.31 | 90.00 | 6,100.0 | 0.0 | 8.5 | 0.9 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.31 | 90.00 | 6,200.0 | 0.0 | 9.0 | 0.9 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 0.31 | 90.00 | 6,300.0 | 0.0 | 9.6 | 1.0 | 0.00 | 0.00 | 0.00 |
| 6,380.0 | 0.31 | 90.00 | 6,380.0 | 0.0 | 10.0 | 1.0 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.45 | 68.03 | 6,400.0 | 0.0 | 10.1 | 1.0 | 1.00 | 0.71 | -109.98 |
| 6,500.0 | 1.39 | 43.59 | 6,500.0 | 1.1 | 11.3 | 0.1 | 1.00 | 0.94 | -24.44 |
| 6,600.0 | 2.38 | 39.12 | 6,599.9 | 3.5 | 13.5 | -2.2 | 1.00 | 0.99 | -4.47 |
| 6,700.0 | 3.38 | 37.28 | 6,699.8 | 7.5 | 16.6 | -5.8 | 1.00 | 1.00 | -1.84 |
| 6,800.0 | 4.37 | 36.28 | 6,799.5 | 12.9 | 20.6 | -10.8 | 1.00 | 1.00 | -1.00 |
| 6,900.0 | 5.37 | 35.65 | 6,899.2 | 19.8 | 25.6 | -17.1 | 1.00 | 1.00 | -0.63 |
| 7,000.0 | 6.37 | 35.22 | 6,998.7 | 28.1 | 31.5 | -24.8 | 1.00 | 1.00 | -0.43 |
| 7,062.2 | 6.99 | 35.01 | 7,060.4 | 34.1 | 35.7 | -30.2 | 1.00 | 1.00 | -0.33 |
| 7,100.0 | 6.99 | 35.01 | 7,098.0 | 37.8 | 38.3 | -33.7 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 6.99 | 35.01 | 7,197.2 | 47.8 | 45.3 | -42.9 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 6.99 | 35.01 | 7,296.5 | 57.8 | 52.3 | -52.1 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 6.99 | 35.01 | 7,395.7 | 67.7 | 59.3 | -61.4 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 6.99 | 35.01 | 7,495.0 | 77.7 | 66.3 | -70.6 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 6.99 | 35.01 | 7,594.2 | 87.7 | 73.2 | -79.8 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 6.99 | 35.01 | 7,693.5 | 97.7 | 80.2 | -89.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 6.99 | 35.01 | 7,792.7 | 107.6 | 87.2 | -98.2 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 6.99 | 35.01 | 7,892.0 | 117.6 | 94.2 | -107.4 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 6.99 | 35.01 | 7,991.3 | 127.6 | 101.2 | -116.6 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 6.99 | 35.01 | 8,090.5 | 137.5 | 108.2 | -125.8 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 6.99 | 35.01 | 8,189.8 | 147.5 | 115.2 | -135.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 6.99 | 35.01 | 8,289.0 | 157.5 | 122.1 | -144.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 6.99 | 35.01 | 8,388.3 | 167.5 | 129.1 | -153.5 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 6.99 | 35.01 | 8,487.5 | 177.4 | 136.1 | -162.7 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 6.99 | 35.01 | 8,586.8 | 187.4 | 143.1 | -171.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 6.99 | 35.01 | 8,686.1 | 197.4 | 150.1 | -181.1 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 6.99 | 35.01 | 8,785.3 | 207.4 | 157.1 | -190.3 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 6.99 | 35.01 | 8,884.6 | 217.3 | 164.1 | -199.5 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 6.99 | 35.01 | 8,983.8 | 227.3 | 171.0 | -208.7 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 6.99 | 35.01 | 9,083.1 | 237.3 | 178.0 | -217.9 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 6.99 | 35.01 | 9,182.3 | 247.2 | 185.0 | -227.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 6.99 | 35.01 | 9,281.6 | 257.2 | 192.0 | -236.3 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 6.99 | 35.01 | 9,380.8 | 267.2 | 199.0 | -245.6 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 6.99 | 35.01 | 9,480.1 | 277.2 | 206.0 | -254.8 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 6.99 | 35.01 | 9,579.4 | 287.1 | 212.9 | -264.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 6.99 | 35.01 | 9,678.6 | 297.1 | 219.9 | -273.2 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 6.99 | 35.01 | 9,777.9 | 307.1 | 226.9 | -282.4 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 6.99 | 35.01 | 9,877.1 | 317.1 | 233.9 | -291.6 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 6.99 | 35.01 | 9,976.4 | 327.0 | 240.9 | -300.8 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 6.99 | 35.01 | 10,075.6 | 337.0 | 247.9 | -310.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 6.99 | 35.01 | 10,174.9 | 347.0 | 254.9 | -319.2 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 6.99 | 35.01 | 10,274.1 | 356.9 | 261.8 | -328.4 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 6.99 | 35.01 | 10,373.4 | 366.9 | 268.8 | -337.7 | 0.00 | 0.00 | 0.00 |

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| **Site:** | Dragon 36 State | **North Reference:** | Grid |
| **Well:** | #701H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

**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 | 6.99 | 35.01 | 10,472.7 | 376.9 | 275.8 | -346.9 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 6.99 | 35.01 | 10,571.9 | 386.9 | 282.8 | -356.1 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 6.99 | 35.01 | 10,671.2 | 396.8 | 289.8 | -365.3 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 6.99 | 35.01 | 10,770.4 | 406.8 | 296.8 | -374.5 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 6.99 | 35.01 | 10,869.7 | 416.8 | 303.7 | -383.7 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 6.99 | 35.01 | 10,968.9 | 426.7 | 310.7 | -392.9 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 6.99 | 35.01 | 11,068.2 | 436.7 | 317.7 | -402.1 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 6.99 | 35.01 | 11,167.5 | 446.7 | 324.7 | -411.3 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 6.99 | 35.01 | 11,266.7 | 456.7 | 331.7 | -420.5 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 6.99 | 35.01 | 11,366.0 | 466.6 | 338.7 | -429.7 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 6.99 | 35.01 | 11,465.2 | 476.6 | 345.7 | -439.0 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 6.99 | 35.01 | 11,564.5 | 486.6 | 352.6 | -448.2 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 6.99 | 35.01 | 11,663.7 | 496.6 | 359.6 | -457.4 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 6.99 | 35.01 | 11,763.0 | 506.5 | 366.6 | -466.6 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 6.99 | 35.01 | 11,862.2 | 516.5 | 373.6 | -475.8 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 6.99 | 35.01 | 11,961.5 | 526.5 | 380.6 | -485.0 | 0.00 | 0.00 | 0.00 |
| 12,015.1 | 6.99 | 35.01 | 11,976.5 | 528.0 | 381.6 | -486.4 | 0.00 | 0.00 | 0.00 |
| 12,025.0 | 6.07 | 41.56 | 11,986.3 | 528.9 | 382.3 | -487.2 | 12.00 | -9.35 | 66.29 |
| 12,050.0 | 4.34 | 69.23 | 12,011.2 | 530.2 | 384.1 | -488.3 | 12.00 | -6.92 | 110.68 |
| 12,075.0 | 4.33 | 109.75 | 12,036.2 | 530.2 | 385.9 | -488.2 | 12.00 | -0.02 | 162.05 |
| 12,100.0 | 6.06 | 137.49 | 12,061.1 | 528.9 | 387.6 | -486.7 | 12.00 | 6.90 | 110.97 |
| 12,125.0 | 8.52 | 151.22 | 12,085.9 | 526.3 | 389.4 | -483.9 | 12.00 | 9.85 | 54.93 |
| 12,150.0 | 11.25 | 158.60 | 12,110.5 | 522.4 | 391.2 | -479.9 | 12.00 | 10.90 | 29.53 |
| 12,175.0 | 14.08 | 163.09 | 12,134.9 | 517.2 | 393.0 | -474.6 | 12.00 | 11.34 | 17.95 |
| 12,200.0 | 16.98 | 166.09 | 12,159.0 | 510.8 | 394.7 | -468.0 | 12.00 | 11.57 | 11.99 |
| 12,225.0 | 19.90 | 168.23 | 12,182.7 | 503.1 | 396.5 | -460.1 | 12.00 | 11.69 | 8.57 |
| 12,250.0 | 22.84 | 169.84 | 12,206.0 | 494.1 | 398.2 | -451.0 | 12.00 | 11.77 | 6.44 |
| 12,275.0 | 25.80 | 171.10 | 12,228.7 | 484.0 | 399.9 | -440.8 | 12.00 | 11.82 | 5.04 |
| 12,300.0 | 28.76 | 172.12 | 12,250.9 | 472.6 | 401.6 | -429.3 | 12.00 | 11.85 | 4.07 |
| 12,325.0 | 31.73 | 172.96 | 12,272.5 | 460.2 | 403.2 | -416.7 | 12.00 | 11.88 | 3.36 |
| 12,350.0 | 34.70 | 173.67 | 12,293.5 | 446.6 | 404.8 | -403.0 | 12.00 | 11.90 | 2.84 |
| 12,375.0 | 37.68 | 174.28 | 12,313.6 | 431.9 | 406.4 | -388.3 | 12.00 | 11.91 | 2.45 |
| 12,400.0 | 40.66 | 174.81 | 12,333.0 | 416.2 | 407.9 | -372.5 | 12.00 | 11.92 | 2.14 |
| 12,425.0 | 43.65 | 175.29 | 12,351.5 | 399.5 | 409.3 | -355.7 | 12.00 | 11.93 | 1.89 |
| 12,450.0 | 46.63 | 175.71 | 12,369.2 | 381.8 | 410.7 | -338.0 | 12.00 | 11.94 | 1.70 |
| 12,475.0 | 49.62 | 176.09 | 12,385.9 | 363.2 | 412.0 | -319.4 | 12.00 | 11.95 | 1.54 |
| 12,500.0 | 52.60 | 176.45 | 12,401.6 | 343.8 | 413.3 | -300.0 | 12.00 | 11.95 | 1.41 |
| 12,525.0 | 55.59 | 176.77 | 12,416.2 | 323.6 | 414.5 | -279.7 | 12.00 | 11.95 | 1.30 |
| 12,550.0 | 58.58 | 177.07 | 12,429.8 | 302.6 | 415.6 | -258.8 | 12.00 | 11.96 | 1.21 |
| 12,575.0 | 61.57 | 177.36 | 12,442.3 | 281.0 | 416.7 | -237.1 | 12.00 | 11.96 | 1.13 |
| 12,600.0 | 64.56 | 177.62 | 12,453.6 | 258.7 | 417.6 | -214.9 | 12.00 | 11.96 | 1.07 |
| 12,625.0 | 67.55 | 177.88 | 12,463.7 | 235.9 | 418.5 | -192.1 | 12.00 | 11.96 | 1.02 |
| **FTP(Dragon 36 State #701H)** | | | | | | | | | |
| 12,650.0 | 70.55 | 178.12 | 12,472.7 | 212.6 | 419.3 | -168.8 | 12.00 | 11.97 | 0.98 |
| 12,675.0 | 73.54 | 178.36 | 12,480.4 | 188.8 | 420.1 | -145.1 | 12.00 | 11.97 | 0.94 |
| 12,700.0 | 76.53 | 178.59 | 12,486.8 | 164.7 | 420.7 | -121.0 | 12.00 | 11.97 | 0.91 |
| 12,725.0 | 79.52 | 178.81 | 12,492.0 | 140.2 | 421.3 | -96.6 | 12.00 | 11.97 | 0.89 |
| 12,750.0 | 82.51 | 179.03 | 12,495.9 | 115.5 | 421.7 | -72.0 | 12.00 | 11.97 | 0.87 |
| 12,775.0 | 85.51 | 179.24 | 12,498.5 | 90.7 | 422.1 | -47.2 | 12.00 | 11.97 | 0.86 |
| 12,800.0 | 88.50 | 179.46 | 12,499.8 | 65.7 | 422.4 | -22.4 | 12.00 | 11.97 | 0.85 |
| 12,812.5 | 90.00 | 179.56 | 12,500.0 | 53.2 | 422.5 | -9.9 | 12.00 | 11.97 | 0.85 |
| 12,900.0 | 90.00 | 179.56 | 12,500.0 | -34.3 | 423.2 | 77.2 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 179.56 | 12,500.0 | -134.3 | 423.9 | 176.7 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #701H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Project:** | Lea County, NM (NAD 27 NME) | **MD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Site:** | Dragon 36 State | **North Reference:** | Grid |
| **Well:** | #701H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 13,100.0 | 90.00 | 179.56 | 12,500.0 | -234.3 | 424.7 | 276.3 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.56 | 12,500.0 | -334.3 | 425.5 | 375.8 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 179.56 | 12,500.0 | -434.3 | 426.2 | 475.4 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.56 | 12,500.0 | -534.3 | 427.0 | 574.9 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.56 | 12,500.0 | -634.3 | 427.7 | 674.5 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.56 | 12,500.0 | -734.3 | 428.5 | 774.1 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.56 | 12,500.0 | -834.3 | 429.3 | 873.6 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.56 | 12,500.0 | -934.3 | 430.0 | 973.2 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.56 | 12,500.0 | -1,034.3 | 430.8 | 1,072.7 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.56 | 12,500.0 | -1,134.2 | 431.6 | 1,172.3 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.56 | 12,500.0 | -1,234.2 | 432.3 | 1,271.8 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.56 | 12,500.0 | -1,334.2 | 433.1 | 1,371.4 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.56 | 12,500.0 | -1,434.2 | 433.9 | 1,470.9 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.56 | 12,500.0 | -1,534.2 | 434.6 | 1,570.5 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.56 | 12,500.0 | -1,634.2 | 435.4 | 1,670.1 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.56 | 12,500.0 | -1,734.2 | 436.1 | 1,769.6 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.56 | 12,500.0 | -1,834.2 | 436.9 | 1,869.2 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 179.56 | 12,500.0 | -1,934.2 | 437.7 | 1,968.7 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 179.56 | 12,500.0 | -2,034.2 | 438.4 | 2,068.3 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 179.56 | 12,500.0 | -2,134.2 | 439.2 | 2,167.8 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 179.56 | 12,500.0 | -2,234.2 | 440.0 | 2,267.4 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 179.56 | 12,500.0 | -2,334.2 | 440.7 | 2,366.9 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 179.56 | 12,500.0 | -2,434.2 | 441.5 | 2,466.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 179.56 | 12,500.0 | -2,534.2 | 442.2 | 2,566.1 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 179.56 | 12,500.0 | -2,634.2 | 443.0 | 2,665.6 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 179.56 | 12,500.0 | -2,734.2 | 443.8 | 2,765.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 179.56 | 12,500.0 | -2,834.2 | 444.5 | 2,864.7 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 179.56 | 12,500.0 | -2,934.2 | 445.3 | 2,964.3 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 179.56 | 12,500.0 | -3,034.2 | 446.1 | 3,063.8 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 179.56 | 12,500.0 | -3,134.2 | 446.8 | 3,163.4 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 179.56 | 12,500.0 | -3,234.2 | 447.6 | 3,262.9 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 179.56 | 12,500.0 | -3,334.2 | 448.4 | 3,362.5 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 179.56 | 12,500.0 | -3,434.2 | 449.1 | 3,462.1 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 179.56 | 12,500.0 | -3,534.2 | 449.9 | 3,561.6 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 179.56 | 12,500.0 | -3,634.2 | 450.6 | 3,661.2 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 179.56 | 12,500.0 | -3,734.2 | 451.4 | 3,760.7 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 179.56 | 12,500.0 | -3,834.2 | 452.2 | 3,860.3 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 179.56 | 12,500.0 | -3,934.2 | 452.9 | 3,959.8 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 179.56 | 12,500.0 | -4,034.2 | 453.7 | 4,059.4 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 179.56 | 12,500.0 | -4,134.2 | 454.5 | 4,158.9 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.56 | 12,500.0 | -4,234.2 | 455.2 | 4,258.5 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 179.56 | 12,500.0 | -4,334.2 | 456.0 | 4,358.1 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 179.56 | 12,500.0 | -4,434.2 | 456.7 | 4,457.6 | 0.00 | 0.00 | 0.00 |
| 17,332.8 | 90.00 | 179.56 | 12,500.0 | -4,467.0 | 457.0 | 4,490.3 | 0.00 | 0.00 | 0.00 |
| **PBHL(Dragon 36 State #701H)** | | | | | | | | | |

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.1 Single User Db | **Local Co-ordinate Reference:** | Well #701H |
| **Company:** | EOG Resources - Midland | **TVD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Project:** | Lea County, NM (NAD 27 NME) | **MD Reference:** | KB = 21' @ 3528.0usft (Nomac 55) |
| **Site:** | Dragon 36 State | **North Reference:** | Grid |
| **Well:** | #701H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan #1 | | |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FTP(Dragon 36 State #7<br>- plan misses target center by 39.0usft at 12625.0usft MD (12463.7 TVD, 235.9 N, 418.5 E)<br>- Point | 0.00 | 0.00 | 12,500.0 | 250.0 | 421.0 | 430,252.00 | 750,942.00 | 32° 10' 49.005 N | 103° 31' 20.100 W |
| PBHL(Dragon 36 State #<br>- plan hits target center<br>- Rectangle (sides W50.0 H0.0 D4,717.5) | 90.00 | 179.56 | 12,500.0 | -4,467.0 | 457.0 | 425,535.00 | 750,978.00 | 32° 10' 2.325 N | 103° 31' 20.095 W |

**EOG RESOURCES, INC.**
**DRAGON 36 STATE #701H**

# Hydrogen Sulfide Plan Summary

A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- Well control equipment
  a. Flare line 150' from wellhead to be ignited by flare gun.
  b. Choke manifold with a remotely operated choke.
  c. Mud/gas separator

- Protective equipment for essential personnel.

  Breathing apparatus:
  a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
  b. Work/Escape packs —4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
  c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

  Auxiliary Rescue Equipment:
  a. Stretcher
  b. Two OSHA full body harness
  c. 100 ft 5/8 inch OSHA approved rope
  d. 1-20# class ABC fire extinguisher

- H2S detection and monitoring equipment:
  The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
  (Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  c. Two wind socks will be placed in strategic locations, visible from all angles.

**EOG RESOURCES, INC.**
**DRAGON 36 STATE #701H**

- Mud program:
  The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

- Metallurgy:
  All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

- Communication:
  Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.**
**DRAGON 36 STATE #701H**

## Emergency Assistance Telephone List

| **PUBLIC SAFETY:** | **911 or** |
|---|---|
| Lea County Sheriff's Department | (575) 396-3611 |
| Rod Coffman | |
| Fire Department: | |
| Carlsbad | (575) 885-3125 |
| Artesia | (575) 746-5050 |
| Hospitals: | |
| Carlsbad | (575) 887-4121 |
| Artesia | (575) 748-3333 |
| Hobbs | (575) 392-1979 |
| Dept. of Public Safety/Carlsbad | (575) 748-9718 |
| Highway Department | (575) 885-3281 |
| New Mexico Oil Conservation | (575) 476-3440 |
| U.S. Dept. of Labor | (575) 887-1174 |

| **EOG Resources, Inc.** | |
|---|---|
| EOG / Midland | Office (432) 686-3600 |

| **Company Drilling Consultants:** | |
|---|---|
| Jett Dueitt | Cell (432) 230-4840 |
| Blake Burney | |

| **Drilling Engineer** | |
|---|---|
| Robert Brosig | Office (432) 686-3737 |
| | Cell (432) 770-0705 |

| **Drilling Manager** | |
|---|---|
| Lee Lohoefer | Office (432) 686-6716 |
| | Cell (817) 374-9686 |

| **Drilling Superintendent** | |
|---|---|
| Jason Richey | Office (432) 686-3665 |
| | Cell (817) 879-6521 |

| **H&P Drilling** | |
|---|---|
| H&P Drilling | Office (432) 563-5757 |
| H&P 415 Drilling Rig | Rig (432) 230-4840 |

| **Tool Pusher:** | |
|---|---|
| Johnathan Craig | Cell (817) 760-6374 |
| Brad Garrett | |

| **Safety** | |
|---|---|
| Reggie Phillips (HSE Manager) | Office (432) 686-3747 |
| | Cell (432) 250-7507 |