



Lea County, NM (NAD 83 NME)

Braswell 16 State #601H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #601H

Ground Level: 3279.0  
KB = 25' @ 3304.0usft  
Northing 862786.50 Easting 775286.00 Latitude 32° 3' 0.088 N Longitude 103° 34' 41.632 W

#### SECTION DETAILS

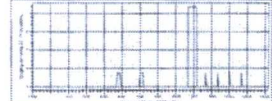
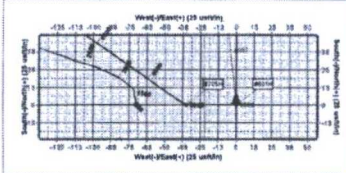
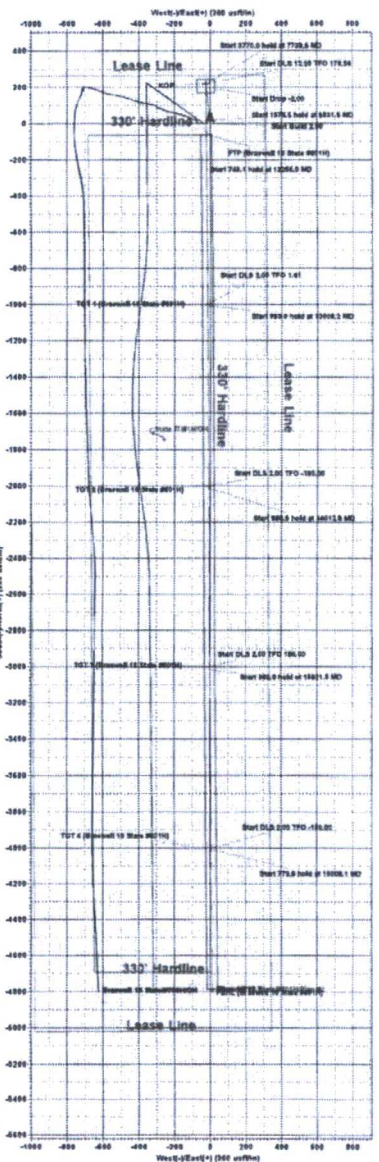
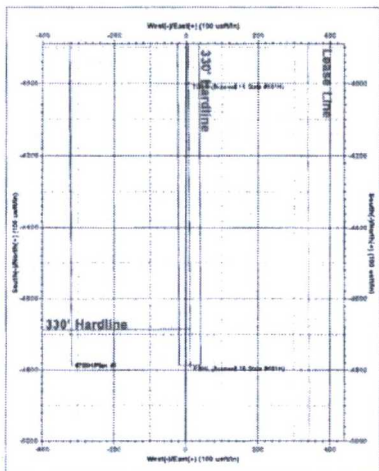
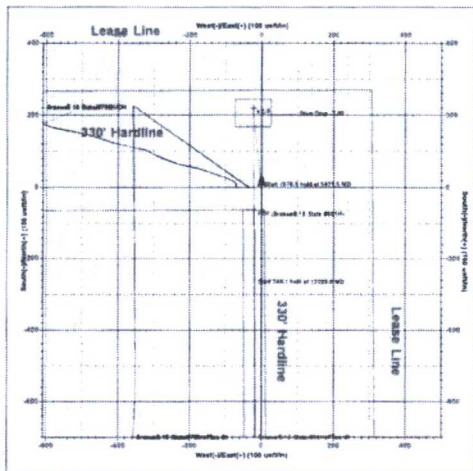
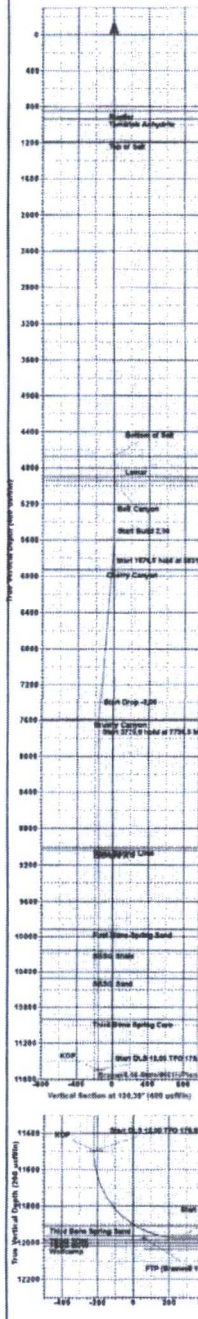
| Sec | MD      | Inc   | Azi    | TVD     | +N-S    | +E-W  | Diag  | TFace   | VFace  | Target                          |
|-----|---------|-------|--------|---------|---------|-------|-------|---------|--------|---------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0     | 0.0   | 0.00  | 0.00    | 0.0    |                                 |
| 2   | 5500.0  | 0.00  | 0.00   | 5500.0  | 0.0     | 0.0   | 0.00  | 0.00    | 0.0    |                                 |
| 3   | 5831.5  | 6.63  | 353.77 | 5830.8  | 19.0    | -2.1  | 2.00  | 353.77  | -19.0  |                                 |
| 4   | 7408.0  | 6.63  | 353.77 | 7396.7  | 200.0   | -21.8 | 0.00  | 0.00    | -200.0 |                                 |
| 5   | 7739.5  | 0.00  | 0.00   | 7727.5  | 219.0   | -23.9 | 2.00  | 180.00  | -219.0 |                                 |
| 6   | 11509.5 | 0.00  | 0.00   | 11497.5 | 218.0   | -23.9 | 0.00  | 0.00    | -219.1 | KOP                             |
| 7   | 12255.0 | 89.46 | 179.59 | 11974.9 | -253.9  | -20.5 | 12.00 | 179.59  | 253.9  |                                 |
| 8   | 13001.2 | 89.46 | 179.59 | 11982.0 | -1000.0 | -15.1 | 0.00  | 0.00    | 1000.0 | TGT 1 (Braswell 16 State #601H) |
| 9   | 13008.2 | 89.60 | 179.59 | 11982.1 | -1007.1 | -15.0 | 2.00  | 1.61    | 1007.0 |                                 |
| 10  | 14001.2 | 89.60 | 179.59 | 11989.0 | -2000.0 | -7.9  | 0.00  | 0.00    | 2000.0 | TGT 2 (Braswell 16 State #601H) |
| 11  | 14012.8 | 89.37 | 179.59 | 11989.1 | -2011.5 | -7.9  | 2.00  | -180.00 | 2011.5 |                                 |
| 12  | 15001.3 | 89.37 | 179.59 | 12000.0 | -3000.0 | -0.8  | 0.00  | 0.00    | 3000.0 | TGT 3 (Braswell 16 State #601H) |
| 13  | 15021.5 | 88.96 | 179.59 | 12000.3 | -3020.2 | -0.6  | 2.00  | 180.00  | 3020.2 |                                 |
| 14  | 16001.5 | 88.96 | 179.59 | 12018.0 | -4000.0 | 6.4   | 0.00  | 0.00    | 4000.0 | TGT 4 (Braswell 16 State #601H) |
| 15  | 16008.1 | 88.83 | 179.59 | 12018.1 | -4006.6 | 6.4   | 2.00  | -180.00 | 4006.6 |                                 |
| 16  | 16787.7 | 88.83 | 179.59 | 12034.0 | -4786.0 | 12.0  | 0.00  | 0.00    | 4786.0 | PBHL (Braswell 16 State #601H)  |

#### CASING DETAILS

No casing data is available

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

| Name                            | TVD     | +N-S    | +E-W  | Northing  | Easting   |
|---------------------------------|---------|---------|-------|-----------|-----------|
| KOP                             | 11497.5 | 218.0   | -23.9 | 382974.03 | 775282.10 |
| PTP (Braswell 16 State #601H)   | 11975.0 | -81.8   | -21.0 | 382894.00 | 775285.00 |
| TGT 1 (Braswell 16 State #601H) | 11982.0 | -1000.0 | -16.1 | 381755.00 | 775279.81 |
| TGT 2 (Braswell 16 State #601H) | 11989.0 | -3000.0 | -7.8  | 380765.00 | 775278.06 |
| TGT 3 (Braswell 16 State #601H) | 12000.0 | -3000.0 | -0.8  | 378755.00 | 775282.22 |
| TGT 4 (Braswell 16 State #601H) | 12018.0 | -4000.0 | 6.4   | 378755.00 | 775292.38 |
| PBHL (Braswell 16 State #601H)  | 12034.0 | -4786.0 | 12.0  | 377965.00 | 775295.00 |



## **EOG Resources - Midland**

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

**Braswell 16 State**

**#601H**

**73371**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**27 June, 2017**



## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Braswell 16 State  
**Well:** #601H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #601H  
**TVD Reference:** KB = 25' @ 3304.0usft  
**MD Reference:** KB = 25' @ 3304.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

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

|                              |                   |                     |                 |                                     |
|------------------------------|-------------------|---------------------|-----------------|-------------------------------------|
| <b>Site</b>                  | Braswell 16 State |                     |                 |                                     |
| <b>Site Position:</b>        |                   | <b>Northing:</b>    | 382,755.00 usft | <b>Latitude:</b> 32° 3' 0.088 N     |
| <b>From:</b>                 | Map               | <b>Easting:</b>     | 775,286.00 usft | <b>Longitude:</b> 103° 34' 41.632 W |
| <b>Position Uncertainty:</b> | 0.0 usft          | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> 0.40 °     |

|                             |          |                            |                                  |                                     |
|-----------------------------|----------|----------------------------|----------------------------------|-------------------------------------|
| <b>Well</b>                 | #601H    |                            |                                  |                                     |
| <b>Well Position</b>        | +N/-S    | 0.0 usft                   | <b>Northing:</b> 382,755.00 usft | <b>Latitude:</b> 32° 3' 0.088 N     |
|                             | +E/-W    | 0.0 usft                   | <b>Easting:</b> 775,286.00 usft  | <b>Longitude:</b> 103° 34' 41.632 W |
| <b>Position Uncertainty</b> | 0.0 usft | <b>Wellhead Elevation:</b> |                                  | <b>Ground Level:</b> 3,279.0 usft   |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 5/19/2017          | 6.95                   | 59.90                | 47,843.12527412            |

|                          |                                |                     |                     |                          |
|--------------------------|--------------------------------|---------------------|---------------------|--------------------------|
| <b>Design</b>            | Plan #1                        |                     |                     |                          |
| <b>Audit Notes:</b>      |                                |                     |                     |                          |
| <b>Version:</b>          |                                | <b>Phase:</b>       | PLAN                | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b>     |
|                          | 0.0                            | 0.0                 | 0.0                 | 179.86                   |

|                                 |                        |                          |                  |                |
|---------------------------------|------------------------|--------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b> 6/27/2017  |                          |                  |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Remarks</b> |
| 1                               | 0.0                    | 16,787.7 Plan #1 (OH)    | MWD              |                |
|                                 |                        |                          | MWD - Standard   |                |

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**Wellbore:** OH  
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**MD Reference:** KB = 25' @ 3304.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

| 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    |                      |
| 5,500.0               | 0.00            | 0.00        | 5,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 5,831.5               | 6.63            | 353.77      | 5,830.8               | 19.0         | -2.1         | 2.00                    | 2.00                   | 0.00                  | 353.77  |                      |
| 7,408.0               | 6.63            | 353.77      | 7,396.7               | 200.0        | -21.8        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 7,739.5               | 0.00            | 0.00        | 7,727.5               | 219.0        | -23.9        | 2.00                    | -2.00                  | 0.00                  | 180.00  |                      |
| 11,509.5              | 0.00            | 0.00        | 11,497.5              | 219.0        | -23.9        | 0.00                    | 0.00                   | 0.00                  | 0.00    | KOP                  |
| 12,255.0              | 89.46           | 179.59      | 11,974.9              | -253.9       | -20.5        | 12.00                   | 12.00                  | 24.09                 | 179.59  |                      |
| 13,001.2              | 89.46           | 179.59      | 11,982.0              | -1,000.0     | -15.1        | 0.00                    | 0.00                   | 0.00                  | 0.00    | TGT 1 (Braswell 16 S |
| 13,008.2              | 89.60           | 179.59      | 11,982.1              | -1,007.1     | -15.0        | 2.00                    | 2.00                   | 0.06                  | 1.61    |                      |
| 14,001.2              | 89.60           | 179.59      | 11,989.0              | -2,000.0     | -7.9         | 0.00                    | 0.00                   | 0.00                  | 0.00    | TGT 2 (Braswell 16 S |
| 14,012.8              | 89.37           | 179.59      | 11,989.1              | -2,011.5     | -7.9         | 2.00                    | -2.00                  | 0.00                  | -180.00 |                      |
| 15,001.3              | 89.37           | 179.59      | 12,000.0              | -3,000.0     | -0.8         | 0.00                    | 0.00                   | 0.00                  | 0.00    | TGT 3 (Braswell 16 S |
| 15,021.5              | 88.96           | 179.59      | 12,000.3              | -3,020.2     | -0.6         | 2.00                    | -2.00                  | 0.00                  | 180.00  |                      |
| 16,001.5              | 88.96           | 179.59      | 12,018.0              | -4,000.0     | 6.4          | 0.00                    | 0.00                   | 0.00                  | 0.00    | TGT 4 (Braswell 16 S |
| 16,008.1              | 88.83           | 179.59      | 12,018.1              | -4,006.6     | 6.4          | 2.00                    | -2.00                  | 0.00                  | -180.00 |                      |
| 16,787.7              | 88.83           | 179.59      | 12,034.0              | -4,786.0     | 12.0         | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (Braswell 16 St |

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 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                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 857.0                 | 0.00            | 0.00        | 857.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Rustler               |                 |             |                       |              |              |                         |                         |                        |                       |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 942.0                 | 0.00            | 0.00        | 942.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Tamarisk Anhydrite    |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 1,189.0               | 0.00            | 0.00        | 1,189.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Top of Salt           |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |
| 4,600.0               | 0.00            | 0.00        | 4,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |



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 Design: Plan #1

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 TVD Reference: KB = 25' @ 3304.0usft  
 MD Reference: KB = 25' @ 3304.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,674.0               | 0.00            | 0.00        | 4,674.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Bottom of Salt</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,700.0               | 0.00            | 0.00        | 4,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 0.00            | 0.00        | 4,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 0.00            | 0.00        | 4,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,902.0               | 0.00            | 0.00        | 4,902.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Lamar</b>          |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,945.0               | 0.00            | 0.00        | 4,945.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Bell Canyon</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,000.0               | 0.00            | 0.00        | 5,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 0.00            | 0.00        | 5,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 0.00            | 0.00        | 5,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 0.00            | 0.00        | 5,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 0.00            | 0.00        | 5,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 0.00            | 0.00        | 5,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 2.00            | 353.77      | 5,600.0               | 1.7          | -0.2         | -1.7                    | 2.00                    | 2.00                   | 0.00                  |
| 5,700.0               | 4.00            | 353.77      | 5,699.8               | 6.9          | -0.8         | -6.9                    | 2.00                    | 2.00                   | 0.00                  |
| 5,800.0               | 6.00            | 353.77      | 5,799.5               | 15.6         | -1.7         | -15.6                   | 2.00                    | 2.00                   | 0.00                  |
| 5,831.5               | 6.63            | 353.77      | 5,830.8               | 19.0         | -2.1         | -19.0                   | 2.00                    | 2.00                   | 0.00                  |
| 5,900.0               | 6.63            | 353.77      | 5,898.8               | 26.9         | -2.9         | -26.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,935.4               | 6.63            | 353.77      | 5,934.0               | 31.0         | -3.4         | -31.0                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Cherry Canyon</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,000.0               | 6.63            | 353.77      | 5,998.1               | 38.4         | -4.2         | -38.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 6.63            | 353.77      | 6,097.5               | 49.9         | -5.4         | -49.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 6.63            | 353.77      | 6,196.8               | 61.3         | -6.7         | -61.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 6.63            | 353.77      | 6,296.1               | 72.8         | -7.9         | -72.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 6.63            | 353.77      | 6,395.5               | 84.3         | -9.2         | -84.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 6.63            | 353.77      | 6,494.8               | 95.8         | -10.5        | -95.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 6.63            | 353.77      | 6,594.1               | 107.2        | -11.7        | -107.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 6.63            | 353.77      | 6,693.5               | 118.7        | -13.0        | -118.8                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 6.63            | 353.77      | 6,792.8               | 130.2        | -14.2        | -130.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 6.63            | 353.77      | 6,892.1               | 141.7        | -15.5        | -141.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 6.63            | 353.77      | 6,991.4               | 153.2        | -16.7        | -153.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 6.63            | 353.77      | 7,090.8               | 164.6        | -18.0        | -164.7                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 6.63            | 353.77      | 7,190.1               | 176.1        | -19.2        | -176.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 6.63            | 353.77      | 7,289.4               | 187.6        | -20.5        | -187.6                  | 0.00                    | 0.00                   | 0.00                  |
| 7,408.0               | 6.63            | 353.77      | 7,396.7               | 200.0        | -21.8        | -200.0                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 4.79            | 353.77      | 7,488.3               | 209.1        | -22.8        | -209.1                  | 2.00                    | -2.00                  | 0.00                  |
| 7,600.0               | 2.79            | 353.77      | 7,588.0               | 215.7        | -23.5        | -215.7                  | 2.00                    | -2.00                  | 0.00                  |
| 7,604.0               | 2.71            | 353.77      | 7,592.0               | 215.8        | -23.6        | -215.9                  | 2.00                    | -2.00                  | 0.00                  |
| <b>Brushy Canyon</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,700.0               | 0.79            | 353.77      | 7,688.0               | 218.8        | -23.9        | -218.8                  | 2.00                    | -2.00                  | 0.00                  |
| 7,739.5               | 0.00            | 0.00        | 7,727.5               | 219.0        | -23.9        | -219.1                  | 2.00                    | -2.00                  | 0.00                  |
| 7,800.0               | 0.00            | 0.00        | 7,788.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 0.00            | 0.00        | 7,888.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 0.00            | 0.00        | 7,988.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 0.00            | 0.00        | 8,088.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 0.00            | 0.00        | 8,188.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 0.00            | 0.00        | 8,288.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 0.00            | 0.00        | 8,388.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 0.00            | 0.00        | 8,488.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 0.00            | 0.00        | 8,588.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 0.00            | 0.00        | 8,688.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 0.00            | 0.00        | 8,788.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Braswell 16 State  
 Well: #601H  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well #601H  
 TVD Reference: KB = 25' @ 3304.0usft  
 MD Reference: KB = 25' @ 3304.0usft  
 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) |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,900.0                       | 0.00            | 0.00        | 8,888.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0                       | 0.00            | 0.00        | 8,988.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,029.0                       | 0.00            | 0.00        | 9,017.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring Lime</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,056.0                       | 0.00            | 0.00        | 9,044.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Leonard A</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,100.0                       | 0.00            | 0.00        | 9,088.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0                       | 0.00            | 0.00        | 9,188.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                       | 0.00            | 0.00        | 9,288.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                       | 0.00            | 0.00        | 9,388.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                       | 0.00            | 0.00        | 9,488.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0                       | 0.00            | 0.00        | 9,588.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                       | 0.00            | 0.00        | 9,688.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                       | 0.00            | 0.00        | 9,788.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                       | 0.00            | 0.00        | 9,888.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,941.0                       | 0.00            | 0.00        | 9,929.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>First Bone Spring Sand</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,000.0                      | 0.00            | 0.00        | 9,988.0               | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                      | 0.00            | 0.00        | 10,088.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,180.0                      | 0.00            | 0.00        | 10,168.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>SBSG Shale</b>             |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,200.0                      | 0.00            | 0.00        | 10,188.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                      | 0.00            | 0.00        | 10,288.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0                      | 0.00            | 0.00        | 10,388.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,491.0                      | 0.00            | 0.00        | 10,479.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>SBSG Sand</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,500.0                      | 0.00            | 0.00        | 10,488.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                      | 0.00            | 0.00        | 10,588.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                      | 0.00            | 0.00        | 10,688.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                      | 0.00            | 0.00        | 10,788.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                      | 0.00            | 0.00        | 10,888.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,949.0                      | 0.00            | 0.00        | 10,937.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Third Bone Spring Carb</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,000.0                      | 0.00            | 0.00        | 10,988.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                      | 0.00            | 0.00        | 11,088.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                      | 0.00            | 0.00        | 11,188.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                      | 0.00            | 0.00        | 11,288.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                      | 0.00            | 0.00        | 11,388.0              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,509.5                      | 0.00            | 0.00        | 11,497.5              | 219.0        | -23.9        | -219.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,525.0                      | 1.86            | 179.59      | 11,513.0              | 218.8        | -23.9        | -218.8                  | 12.00                   | 12.00                  | 0.00                  |
| 11,550.0                      | 4.86            | 179.59      | 11,537.9              | 217.3        | -23.9        | -217.4                  | 12.00                   | 12.00                  | 0.00                  |
| 11,575.0                      | 7.86            | 179.59      | 11,562.8              | 214.6        | -23.9        | -214.6                  | 12.00                   | 12.00                  | 0.00                  |
| 11,600.0                      | 10.86           | 179.59      | 11,587.4              | 210.5        | -23.8        | -210.5                  | 12.00                   | 12.00                  | 0.00                  |
| 11,625.0                      | 13.86           | 179.59      | 11,611.9              | 205.1        | -23.8        | -205.2                  | 12.00                   | 12.00                  | 0.00                  |
| 11,650.0                      | 16.86           | 179.59      | 11,636.0              | 198.5        | -23.8        | -198.6                  | 12.00                   | 12.00                  | 0.00                  |
| 11,675.0                      | 19.86           | 179.59      | 11,659.7              | 190.6        | -23.7        | -190.7                  | 12.00                   | 12.00                  | 0.00                  |
| 11,700.0                      | 22.86           | 179.59      | 11,683.0              | 181.5        | -23.6        | -181.6                  | 12.00                   | 12.00                  | 0.00                  |
| 11,725.0                      | 25.86           | 179.59      | 11,705.7              | 171.2        | -23.6        | -171.3                  | 12.00                   | 12.00                  | 0.00                  |
| 11,750.0                      | 28.86           | 179.59      | 11,727.9              | 159.7        | -23.5        | -159.8                  | 12.00                   | 12.00                  | 0.00                  |
| 11,775.0                      | 31.86           | 179.59      | 11,749.5              | 147.1        | -23.4        | -147.2                  | 12.00                   | 12.00                  | 0.00                  |
| 11,800.0                      | 34.86           | 179.59      | 11,770.4              | 133.4        | -23.3        | -133.4                  | 12.00                   | 12.00                  | 0.00                  |
| 11,825.0                      | 37.86           | 179.59      | 11,790.5              | 118.5        | -23.2        | -118.6                  | 12.00                   | 12.00                  | 0.00                  |
| 11,850.0                      | 40.86           | 179.59      | 11,809.8              | 102.7        | -23.1        | -102.8                  | 12.00                   | 12.00                  | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Braswell 16 State  
 Well: #601H  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well #601H  
 TVD Reference: KB = 25' @ 3304.0usft  
 MD Reference: KB = 25' @ 3304.0usft  
 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) |
|------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,875.0               | 43.86           | 179.59      | 11,828.3              | 85.9         | -22.9        | -85.9                   | 12.00                   | 12.00                  | 0.00                  |
| 11,900.0               | 46.86           | 179.59      | 11,845.9              | 68.1         | -22.8        | -68.1                   | 12.00                   | 12.00                  | 0.00                  |
| 11,925.0               | 49.86           | 179.59      | 11,862.5              | 49.4         | -22.7        | -49.4                   | 12.00                   | 12.00                  | 0.00                  |
| 11,950.0               | 52.86           | 179.59      | 11,878.1              | 29.9         | -22.5        | -29.9                   | 12.00                   | 12.00                  | 0.00                  |
| 11,975.0               | 55.86           | 179.59      | 11,892.7              | 9.6          | -22.4        | -9.6                    | 12.00                   | 12.00                  | 0.00                  |
| 12,000.0               | 58.86           | 179.59      | 11,906.2              | -11.5        | -22.2        | 11.4                    | 12.00                   | 12.00                  | 0.00                  |
| 12,005.6               | 59.52           | 179.59      | 11,909.0              | -16.3        | -22.2        | 16.2                    | 12.00                   | 12.00                  | 0.00                  |
| Third Bone Spring Sand |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,025.0               | 61.86           | 179.59      | 11,918.5              | -33.2        | -22.1        | 33.2                    | 12.00                   | 12.00                  | 0.00                  |
| 12,050.0               | 64.86           | 179.59      | 11,929.7              | -55.6        | -21.9        | 55.5                    | 12.00                   | 12.00                  | 0.00                  |
| 12,075.0               | 67.86           | 179.59      | 11,939.8              | -78.5        | -21.8        | 78.4                    | 12.00                   | 12.00                  | 0.00                  |
| 12,100.0               | 70.86           | 179.59      | 11,948.6              | -101.9       | -21.6        | 101.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,125.0               | 73.86           | 179.59      | 11,956.1              | -125.7       | -21.4        | 125.6                   | 12.00                   | 12.00                  | 0.00                  |
| 12,148.0               | 76.62           | 179.59      | 11,962.0              | -147.9       | -21.2        | 147.9                   | 12.00                   | 12.00                  | 0.00                  |
| TBSG TOW               |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,150.0               | 76.86           | 179.59      | 11,962.5              | -149.9       | -21.2        | 149.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,175.0               | 79.86           | 179.59      | 11,967.5              | -174.3       | -21.1        | 174.3                   | 12.00                   | 12.00                  | 0.00                  |
| 12,200.0               | 82.86           | 179.59      | 11,971.3              | -199.1       | -20.9        | 199.0                   | 12.00                   | 12.00                  | 0.00                  |
| 12,225.0               | 85.86           | 179.59      | 11,973.7              | -223.9       | -20.7        | 223.9                   | 12.00                   | 12.00                  | 0.00                  |
| 12,250.0               | 88.86           | 179.59      | 11,974.9              | -248.9       | -20.5        | 248.8                   | 12.00                   | 12.00                  | 0.00                  |
| 12,255.0               | 89.46           | 179.59      | 11,974.9              | -253.9       | -20.5        | 253.9                   | 12.00                   | 12.00                  | 0.00                  |
| 12,300.0               | 89.46           | 179.59      | 11,975.4              | -298.9       | -20.2        | 298.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0               | 89.46           | 179.59      | 11,976.3              | -398.9       | -19.4        | 398.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0               | 89.46           | 179.59      | 11,977.3              | -498.9       | -18.7        | 498.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0               | 89.46           | 179.59      | 11,978.2              | -598.9       | -18.0        | 598.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0               | 89.46           | 179.59      | 11,979.2              | -698.9       | -17.3        | 698.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0               | 89.46           | 179.59      | 11,980.1              | -798.9       | -16.5        | 798.8                   | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0               | 89.46           | 179.59      | 11,981.0              | -898.9       | -15.8        | 898.8                   | 0.00                    | 0.00                   | 0.00                  |
| 13,001.2               | 89.46           | 179.59      | 11,982.0              | -1,000.0     | -15.1        | 1,000.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,008.2               | 89.60           | 179.59      | 11,982.1              | -1,007.1     | -15.0        | 1,007.0                 | 2.00                    | 2.00                   | 0.06                  |
| 13,100.0               | 89.60           | 179.59      | 11,982.7              | -1,098.8     | -14.4        | 1,098.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0               | 89.60           | 179.59      | 11,983.4              | -1,198.8     | -13.7        | 1,198.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0               | 89.60           | 179.59      | 11,984.1              | -1,298.8     | -13.0        | 1,298.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0               | 89.60           | 179.59      | 11,984.8              | -1,398.8     | -12.2        | 1,398.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0               | 89.60           | 179.59      | 11,985.5              | -1,498.8     | -11.5        | 1,498.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0               | 89.60           | 179.59      | 11,986.2              | -1,598.8     | -10.8        | 1,598.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0               | 89.60           | 179.59      | 11,986.9              | -1,698.8     | -10.1        | 1,698.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,715.1               | 89.60           | 179.59      | 11,987.0              | -1,713.9     | -10.0        | 1,713.9                 | 0.00                    | 0.00                   | 0.00                  |
| TBSG BOW               |                 |             |                       |              |              |                         |                         |                        |                       |
| 13,800.0               | 89.60           | 179.59      | 11,987.6              | -1,798.8     | -9.4         | 1,798.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0               | 89.60           | 179.59      | 11,988.3              | -1,898.8     | -8.7         | 1,898.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,001.2               | 89.60           | 179.59      | 11,989.0              | -2,000.0     | -7.9         | 2,000.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,012.8               | 89.37           | 179.59      | 11,989.1              | -2,011.5     | -7.9         | 2,011.5                 | 2.00                    | -2.00                  | 0.00                  |
| 14,100.0               | 89.37           | 179.59      | 11,990.1              | -2,098.8     | -7.2         | 2,098.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0               | 89.37           | 179.59      | 11,991.2              | -2,198.8     | -6.5         | 2,198.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0               | 89.37           | 179.59      | 11,992.3              | -2,298.8     | -5.8         | 2,298.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0               | 89.37           | 179.59      | 11,993.4              | -2,398.8     | -5.1         | 2,398.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0               | 89.37           | 179.59      | 11,994.5              | -2,498.8     | -4.4         | 2,498.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0               | 89.37           | 179.59      | 11,995.6              | -2,598.7     | -3.7         | 2,598.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0               | 89.37           | 179.59      | 11,996.7              | -2,698.7     | -2.9         | 2,698.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0               | 89.37           | 179.59      | 11,997.8              | -2,798.7     | -2.2         | 2,798.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0               | 89.37           | 179.59      | 11,998.9              | -2,898.7     | -1.5         | 2,898.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,001.3               | 89.37           | 179.59      | 12,000.0              | -3,000.0     | -0.8         | 3,000.0                 | 0.00                    | 0.00                   | 0.00                  |



# Planning Report

Database: EDM 5000.14  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Braswell 16 State  
 Well: #601H  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well #601H  
 TVD Reference: KB = 25' @ 3304.0usft  
 MD Reference: KB = 25' @ 3304.0usft  
 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 15,021.5              | 88.96           | 179.59      | 12,000.3              | -3,020.2     | -0.6         | 3,020.2                 | 2.00                    | -2.00                  | 0.00                  |
| 15,100.0              | 88.96           | 179.59      | 12,001.7              | -3,098.7     | -0.1         | 3,098.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 88.96           | 179.59      | 12,003.5              | -3,198.7     | 0.6          | 3,198.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 88.96           | 179.59      | 12,005.3              | -3,298.7     | 1.4          | 3,298.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 88.96           | 179.59      | 12,007.1              | -3,398.6     | 2.1          | 3,398.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 88.96           | 179.59      | 12,008.9              | -3,498.6     | 2.8          | 3,498.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 88.96           | 179.59      | 12,010.7              | -3,598.6     | 3.5          | 3,598.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 88.96           | 179.59      | 12,012.6              | -3,698.6     | 4.2          | 3,698.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 88.96           | 179.59      | 12,014.4              | -3,798.6     | 4.9          | 3,798.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 88.96           | 179.59      | 12,016.2              | -3,898.5     | 5.6          | 3,898.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,001.5              | 88.96           | 179.59      | 12,018.0              | -4,000.0     | 6.4          | 4,000.0                 | 0.00                    | 0.00                   | 0.00                  |
| 16,008.1              | 88.83           | 179.59      | 12,018.1              | -4,006.6     | 6.4          | 4,006.6                 | 2.00                    | -2.00                  | 0.00                  |
| 16,051.0              | 88.83           | 179.59      | 12,019.0              | -4,049.5     | 6.7          | 4,049.5                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Wolfcamp</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,100.0              | 88.83           | 179.59      | 12,020.0              | -4,098.5     | 7.1          | 4,098.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 88.83           | 179.59      | 12,022.0              | -4,198.5     | 7.8          | 4,198.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 88.83           | 179.59      | 12,024.1              | -4,298.5     | 8.5          | 4,298.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 88.83           | 179.59      | 12,026.1              | -4,398.4     | 9.2          | 4,398.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 88.83           | 179.59      | 12,028.1              | -4,498.4     | 9.9          | 4,498.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 88.83           | 179.59      | 12,030.2              | -4,598.4     | 10.7         | 4,598.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 88.83           | 179.59      | 12,032.2              | -4,698.4     | 11.4         | 4,698.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,787.7              | 88.83           | 179.59      | 12,034.0              | -4,786.0     | 12.0         | 4,786.0                 | 0.00                    | 0.00                   | 0.00                  |

## Design Targets

| Target Name                                                                               | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude         |
|-------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-------------------|
| - hit/miss target                                                                         |               |              |            |              |              |                 |                |                 |                   |
| - Shape                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| KOP                                                                                       | 0.00          | 0.00         | 11,497.5   | 219.0        | -23.9        | 382,974.03      | 775,262.10     | 32° 3' 2.257 N  | 103° 34' 41.892 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Rectangle (sides W100.0 H75.0 D0.0)                                                     |               |              |            |              |              |                 |                |                 |                   |
| FTP (Braswell 16 State)                                                                   | 0.00          | 0.00         | 11,975.0   | -61.0        | -21.0        | 382,694.00      | 775,265.00     | 32° 2' 59.486 N | 103° 34' 41.881 W |
| - plan misses target center by 39.3usft at 12073.1usft MD (11939.0 TVD, -76.7 N, -21.8 E) |               |              |            |              |              |                 |                |                 |                   |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| TGT 1 (Braswell 16 State)                                                                 | 0.00          | 0.00         | 11,982.0   | -1,000.0     | -15.1        | 381,755.00      | 775,270.90     | 32° 2' 50.194 N | 103° 34' 41.888 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| TGT 2 (Braswell 16 State)                                                                 | 0.00          | 0.00         | 11,989.0   | -2,000.0     | -7.9         | 380,755.00      | 775,278.06     | 32° 2' 40.298 N | 103° 34' 41.887 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| TGT 3 (Braswell 16 State)                                                                 | 0.00          | 0.00         | 12,000.0   | -3,000.0     | -0.8         | 379,755.00      | 775,285.22     | 32° 2' 30.402 N | 103° 34' 41.885 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| TGT 4 (Braswell 16 State)                                                                 | 0.00          | 0.00         | 12,018.0   | -4,000.0     | 6.4          | 378,755.00      | 775,292.37     | 32° 2' 20.506 N | 103° 34' 41.883 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Point                                                                                   |               |              |            |              |              |                 |                |                 |                   |
| PBHL (Braswell 16 State)                                                                  | 90.00         | 179.59       | 12,034.0   | -4,786.0     | 12.0         | 377,969.00      | 775,298.00     | 32° 2' 12.727 N | 103° 34' 41.881 W |
| - plan hits target center                                                                 |               |              |            |              |              |                 |                |                 |                   |
| - Rectangle (sides W60.0 H0.0 D4,726.0)                                                   |               |              |            |              |              |                 |                |                 |                   |

## Planning Report

**Database:** EDM 5000.14  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Braswell 16 State  
**Well:** #601H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #601H  
**TVD Reference:** KB = 25' @ 3304.0usft  
**MD Reference:** KB = 25' @ 3304.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name                   | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|------------------------|-----------|------------|-------------------------|
| 857.0                       | 857.0                       | Rustler                |           |            |                         |
| 942.0                       | 942.0                       | Tamarisk Anhydrite     |           |            |                         |
| 1,189.0                     | 1,189.0                     | Top of Salt            |           |            |                         |
| 4,674.0                     | 4,674.0                     | Bottom of Salt         |           |            |                         |
| 4,902.0                     | 4,902.0                     | Lamar                  |           |            |                         |
| 4,945.0                     | 4,945.0                     | Bell Canyon            |           |            |                         |
| 5,935.4                     | 5,934.0                     | Cherry Canyon          |           |            |                         |
| 7,604.0                     | 7,592.0                     | Brushy Canyon          |           |            |                         |
| 9,029.0                     | 9,017.0                     | Bone Spring Lime       |           |            |                         |
| 9,056.0                     | 9,044.0                     | Leonard A              |           |            |                         |
| 9,941.0                     | 9,929.0                     | First Bone Spring Sand |           |            |                         |
| 10,180.0                    | 10,168.0                    | SBSG Shale             |           |            |                         |
| 10,491.0                    | 10,479.0                    | SBSG Sand              |           |            |                         |
| 10,949.0                    | 10,937.0                    | Third Bone Spring Carb |           |            |                         |
| 12,005.6                    | 11,909.0                    | Third Bone Spring Sand |           |            |                         |
| 12,148.0                    | 11,962.0                    | TBSG TOW               |           |            |                         |
| 13,715.1                    | 11,987.0                    | TBSG BOW               |           |            |                         |
| 16,051.0                    | 12,019.0                    | Wolfcamp               |           |            |                         |