

**HOBBS OCD**  
**JUN 21 2018**  
**RECEIVED**

## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#707H

OH

Design: OH

## **PVA Report**

05 March, 2018

# PVA Report

|                  |                             |  |  |                                     |                               |
|------------------|-----------------------------|--|--|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     |  |  | <b>Local Co-ordinate Reference:</b> | Well #707H                    |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) |  |  | <b>TVD Reference:</b>               | KB = 25 @ 3374.0usft (HP 620) |
| <b>Site:</b>     | Gem 36 State Com            |  |  | <b>MD Reference:</b>                | KB = 25 @ 3374.0usft (HP 620) |
| <b>Well:</b>     | #707H                       |  |  | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | OH                          |  |  | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | OH                          |  |  | <b>Database:</b>                    | EDM 5000.14                   |

|                    |                             |  |                      |                |  |
|--------------------|-----------------------------|--|----------------------|----------------|--|
| <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>                  | Gem 36 State Com |                     |                 |                          |                   |
| <b>Site Position:</b>        |                  | <b>Northing:</b>    | 393,686.00 usft | <b>Latitude:</b>         | 32° 4' 49.331 N   |
| <b>From:</b>                 | Map              | <b>Easting:</b>     | 759,213.00 usft | <b>Longitude:</b>        | 103° 37' 47.552 W |
| <b>Position Uncertainty:</b> | 0.0 usft         | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.37 °            |

|                             |       |          |                            |                 |                      |                   |
|-----------------------------|-------|----------|----------------------------|-----------------|----------------------|-------------------|
| <b>Well</b>                 | #707H |          |                            |                 |                      |                   |
| <b>Well Position</b>        | +N-S  | 0.0 usft | <b>Northing:</b>           | 393,671.00 usft | <b>Latitude:</b>     | 32° 4' 49.250 N   |
|                             | +E-W  | 0.0 usft | <b>Easting:</b>            | 758,163.00 usft | <b>Longitude:</b>    | 103° 37' 59.757 W |
| <b>Position Uncertainty</b> |       | 0.0 usft | <b>Wellhead Elevation:</b> | usft            | <b>Ground Level:</b> | 3,349.0 usft      |

|                 |    |  |  |  |  |
|-----------------|----|--|--|--|--|
| <b>Wellbore</b> | OH |  |  |  |  |
|-----------------|----|--|--|--|--|

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | IGRF2015          | 12/6/2017          | 6.92                       | 59.91                    | 47,798.36041856                |

|                          |                                    |                        |                        |                          |     |
|--------------------------|------------------------------------|------------------------|------------------------|--------------------------|-----|
| <b>Design</b>            | OH                                 |                        |                        |                          |     |
| <b>Audit Notes:</b>      |                                    |                        |                        |                          |     |
| <b>Version:</b>          | 1.0                                | <b>Phase:</b>          | ACTUAL                 | <b>Tie On Depth:</b>     | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N-S<br/>(usft)</b> | <b>+E-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |     |
|                          | 0.0                                | 0.0                    | 0.0                    | 2.55                     |     |

# PVA Report

|                  |                             |                                     |                               |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H                    |
| <b>Project:</b>  | Les County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25 @ 3374.0usft (HP 620) |
| <b>Site:</b>     | Gem 38 State Corn           | <b>MD Reference:</b>                | KB = 25 @ 3374.0usft (HP 620) |
| <b>Well:</b>     | #707H                       | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | EDM 5000.14                   |

| Survey Program |           | Date              | 3/5/2018  |                     |  |
|----------------|-----------|-------------------|-----------|---------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore) | Tool Name | Description         |  |
| 171.0          | 889.0     | Olebrook MWD (OH) | MWD       | OWSG MWD - Standard |  |
| 964.0          | 4,631.0   | M3P MWD (OH)      | MWD       | OWSG MWD - Standard |  |
| 4,709.0        | 16,990.0  | MS MWD (OH)       | MWD       | OWSG MWD - Standard |  |

| MD (usft) | Inc (") | Azi (grid_north_azim) | TVD (usft) | N/S (usft) | E/W (usft) | QLeg ("H00usft) | Build ("H00usft) | Turn ("H00usft) | High to Plan (usft) | Right to Plan (usft) |
|-----------|---------|-----------------------|------------|------------|------------|-----------------|------------------|-----------------|---------------------|----------------------|
| 0.0       | 0.00    | 0.00                  | 0.0        | 0.0        | 0.0        | 0.00            | 0.00             | 0.00            | 0.0                 | 0.0                  |
| 171.0     | 1.49    | 64.67                 | 171.0      | 1.0        | 2.0        | 0.87            | 0.87             | 0.00            | -2.2                | 0.0                  |
| 294.0     | 0.53    | 283.25                | 294.0      | 1.8        | 2.9        | 1.57            | -0.78            | -114.98         | 2.4                 | -2.4                 |
| 388.0     | 0.53    | 314.19                | 388.0      | 2.2        | 2.2        | 0.30            | 0.00             | 32.91           | 0.0                 | -3.1                 |
| 482.0     | 1.14    | 336.60                | 482.0      | 3.3        | 1.5        | 0.72            | 0.65             | 23.84           | -2.5                | -2.7                 |
| 607.0     | 1.06    | 340.38                | 606.9      | 5.6        | 0.6        | 0.09            | -0.06            | 3.02            | -5.0                | -2.4                 |
| 702.0     | 0.35    | 240.89                | 701.9      | 6.2        | 0.1        | 1.23            | -0.75            | -104.73         | 3.1                 | -5.4                 |
| 797.0     | 0.18    | 130.50                | 796.9      | 6.0        | -0.1       | 0.47            | -0.18            | -116.20         | 4.0                 | 4.5                  |
| 889.0     | 0.79    | 334.13                | 888.9      | 6.5        | -0.3       | 1.04            | 0.66             | -169.97         | -5.9                | -2.6                 |
| 964.0     | 1.50    | 266.60                | 963.9      | 6.9        | -1.5       | 1.87            | 0.95             | -90.04          | -1.0                | -7.0                 |
| 1,058.0   | 0.80    | 203.00                | 1,057.9    | 6.2        | -2.9       | 1.44            | -0.74            | -67.66          | 4.6                 | -5.1                 |
| 1,152.0   | 1.70    | 133.70                | 1,151.9    | 4.6        | -2.2       | 1.70            | 0.96             | -73.72          | 4.8                 | 1.8                  |
| 1,341.0   | 1.50    | 127.20                | 1,340.8    | 1.2        | 1.8        | 0.14            | -0.11            | -3.44           | -0.7                | 2.1                  |
| 1,529.0   | 1.40    | 131.20                | 1,528.7    | -1.8       | 5.5        | 0.08            | -0.05            | 2.13            | -5.3                | 2.3                  |
| 1,718.0   | 1.30    | 142.90                | 1,717.7    | -5.0       | 8.5        | 0.15            | -0.05            | 6.19            | -9.1                | 3.8                  |
| 1,906.0   | 1.40    | 140.00                | 1,905.6    | -8.5       | 11.3       | 0.06            | 0.05             | -1.54           | -13.7               | 3.2                  |
| 2,095.0   | 1.40    | 151.00                | 2,094.6    | -12.3      | 13.9       | 0.14            | 0.00             | 5.82            | -17.5               | 6.2                  |
| 2,284.0   | 1.40    | 160.70                | 2,283.5    | -16.5      | 15.8       | 0.13            | 0.00             | 5.13            | -20.7               | 9.4                  |
| 2,472.0   | 1.20    | 171.60                | 2,471.5    | -20.6      | 16.8       | 0.17            | -0.11            | 5.80            | -22.8               | 13.6                 |
| 2,660.0   | 1.40    | 161.00                | 2,659.4    | -24.7      | 17.9       | 0.17            | 0.11             | -5.64           | -29.2               | 8.8                  |

# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3374.0usft (HP 620) |
| Site:     | Gem 36 State Corn           | MD Reference:                | KB = 25 @ 3374.0usft (HP 620) |
| Well:     | #707H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey       |            |                          |               |               |               |                       |                      |                     |                        |                         |  |
|--------------|------------|--------------------------|---------------|---------------|---------------|-----------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DI Leg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 2,849.0      | 1.70       | 155.10                   | 2,848.4       | -29.4         | 19.8          | 0.18                  | 0.16                 | -3.12               | -35.0                  | 5.6                     |  |
| 3,037.0      | 1.40       | 143.60                   | 3,036.3       | -33.8         | 22.3          | 0.23                  | -0.16                | -6.12               | -40.5                  | -2.1                    |  |
| 3,226.0      | 1.50       | 117.00                   | 3,225.2       | -36.8         | 25.9          | 0.36                  | 0.05                 | -14.07              | -39.8                  | -21.0                   |  |
| 3,414.0      | 2.00       | 95.70                    | 3,413.1       | -38.2         | 31.4          | 0.43                  | 0.27                 | -11.33              | -35.0                  | -34.9                   |  |
| 3,603.0      | 2.10       | 120.00                   | 3,602.0       | -40.3         | 37.6          | 0.46                  | 0.05                 | 12.86               | -52.7                  | -16.1                   |  |
| 3,792.0      | 1.80       | 111.90                   | 3,790.9       | -43.1         | 43.4          | 0.22                  | -0.16                | -4.29               | -56.3                  | -23.8                   |  |
| 3,980.0      | 2.50       | 133.00                   | 3,978.8       | -47.0         | 49.1          | 0.56                  | 0.37                 | 11.22               | -68.0                  | -0.9                    |  |
| 4,169.0      | 2.10       | 131.80                   | 4,167.6       | -52.1         | 54.7          | 0.21                  | -0.21                | -0.63               | -75.5                  | -2.4                    |  |
| 4,357.0      | 2.90       | 129.20                   | 4,355.5       | -57.4         | 61.0          | 0.43                  | 0.43                 | -1.38               | -83.6                  | -6.0                    |  |
| 4,546.0      | 1.80       | 143.30                   | 4,544.3       | -62.8         | 66.5          | 0.65                  | -0.58                | 7.46                | -90.1                  | 15.7                    |  |
| 4,631.0      | 1.60       | 142.00                   | 4,629.3       | -64.8         | 68.0          | 0.24                  | -0.24                | -1.53               | -93.0                  | 13.7                    |  |
| 4,709.0      | 1.70       | 143.20                   | 4,707.2       | -66.6         | 69.3          | 0.14                  | 0.13                 | 1.54                | -94.9                  | 15.6                    |  |
| 4,897.0      | 1.40       | 125.10                   | 4,895.2       | -70.2         | 72.9          | 0.30                  | -0.16                | -9.63               | -100.0                 | -15.5                   |  |
| 5,085.0      | 1.40       | 121.70                   | 5,083.1       | -72.7         | 76.7          | 0.04                  | 0.00                 | -1.81               | -103.5                 | -21.6                   |  |
| 5,272.0      | 1.50       | 113.90                   | 5,270.0       | -74.9         | 80.9          | 0.12                  | 0.05                 | -4.17               | -99.9                  | -34.2                   |  |
| 5,460.0      | 4.10       | 129.60                   | 5,457.8       | -80.2         | 88.3          | 1.43                  | 1.38                 | 8.35                | -97.3                  | -4.6                    |  |
| 5,647.0      | 4.60       | 127.60                   | 5,644.3       | -89.0         | 99.4          | 0.28                  | 0.27                 | -1.07               | -89.2                  | -6.6                    |  |
| 5,834.0      | 3.90       | 120.70                   | 5,830.7       | -96.8         | 110.8         | 0.46                  | -0.37                | -3.69               | -79.9                  | -13.8                   |  |
| 6,021.0      | 4.10       | 128.30                   | 6,017.3       | -104.2        | 121.6         | 0.30                  | 0.11                 | 4.06                | -71.9                  | -1.0                    |  |
| 6,209.0      | 4.50       | 132.20                   | 6,204.8       | -113.4        | 132.3         | 0.26                  | 0.21                 | 2.07                | -63.6                  | 4.2                     |  |
| 6,397.0      | 4.40       | 132.60                   | 6,392.2       | -123.2        | 143.1         | 0.06                  | -0.05                | 0.21                | -55.9                  | 4.4                     |  |
| 6,585.0      | 4.00       | 131.80                   | 6,579.7       | -132.4        | 153.3         | 0.22                  | -0.21                | -0.43               | -47.5                  | 3.6                     |  |
| 6,773.0      | 3.50       | 134.10                   | 6,767.3       | -140.8        | 162.3         | 0.28                  | -0.27                | 1.22                | -37.4                  | 4.8                     |  |
| 6,960.0      | 3.20       | 137.30                   | 6,954.0       | -148.6        | 169.9         | 0.19                  | -0.16                | 1.71                | -25.9                  | 5.1                     |  |
| 7,148.0      | 3.00       | 134.00                   | 7,141.7       | -155.9        | 177.0         | 0.14                  | -0.11                | -1.76               | -14.1                  | 2.5                     |  |
| 7,335.0      | 2.50       | 137.60                   | 7,328.5       | -162.3        | 183.3         | 0.28                  | -0.27                | 1.93                | -4.2                   | 1.8                     |  |
| 7,523.0      | 0.40       | 98.60                    | 7,516.4       | -165.4        | 186.7         | 1.17                  | -1.12                | -20.74              | -2.3                   | 0.1                     |  |

# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3374.0usft (HP 620) |
| Site:     | Gem 36 State Com            | MD Reference:                | KB = 25 @ 3374.0usft (HP 620) |
| Well:     | #707H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey       |             |                          |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|-------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc.<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 7,711.0      | 0.20        | 72.20                    | 7,704.4       | -165.4        | 187.7         | 0.13                | -0.11                | -14.04              | -3.0                   | -1.2                    |  |
| 7,899.0      | 0.20        | 296.50                   | 7,892.4       | -165.2        | 187.7         | 0.20                | 0.00                 | -72.18              | 2.9                    | -1.4                    |  |
| 8,086.0      | 0.70        | 263.10                   | 8,079.4       | -165.2        | 186.2         | 0.29                | 0.27                 | -17.86              | 1.8                    | 0.2                     |  |
| 8,274.0      | 0.20        | 188.80                   | 8,267.4       | -165.6        | 185.1         | 0.36                | -0.27                | -39.52              | -0.4                   | 0.7                     |  |
| 8,461.0      | 0.50        | 200.70                   | 8,454.4       | -166.7        | 184.7         | 0.16                | 0.16                 | 6.36                | -1.3                   | 0.8                     |  |
| 8,649.0      | 0.50        | 229.70                   | 8,642.4       | -168.0        | 183.8         | 0.13                | 0.00                 | 15.43               | -2.3                   | 1.8                     |  |
| 8,712.0      | 0.50        | 229.70                   | 8,705.4       | -168.4        | 183.4         | 0.00                | 0.00                 | 0.00                | -2.9                   | 1.8                     |  |
| 8,836.0      | 0.70        | 226.00                   | 8,829.4       | -169.2        | 182.4         | 0.16                | 0.16                 | -2.98               | -4.3                   | 1.6                     |  |
| 9,024.0      | 0.60        | 252.50                   | 9,017.4       | -170.3        | 180.7         | 0.17                | -0.05                | 14.10               | -5.1                   | 3.8                     |  |
| 9,212.0      | 0.60        | 268.10                   | 9,205.4       | -170.7        | 178.7         | 0.09                | 0.00                 | 8.30                | -5.8                   | 5.3                     |  |
| 9,400.0      | 0.80        | 287.80                   | 9,393.3       | -170.3        | 176.5         | 0.16                | 0.11                 | 10.48               | -5.9                   | 7.3                     |  |
| 9,588.0      | 0.80        | 287.70                   | 9,581.3       | -169.5        | 174.0         | 0.00                | 0.00                 | -0.05               | -8.6                   | 7.3                     |  |
| 9,776.0      | 0.70        | 266.70                   | 9,769.3       | -169.2        | 171.6         | 0.15                | -0.05                | -11.17              | -13.0                  | 3.3                     |  |
| 9,962.0      | 1.00        | 259.40                   | 9,955.3       | -169.5        | 168.9         | 0.17                | 0.16                 | -3.92               | -16.1                  | 1.4                     |  |
| 10,150.0     | 0.80        | 257.70                   | 10,143.3      | -170.1        | 166.0         | 0.11                | -0.11                | -0.90               | -19.1                  | 0.9                     |  |
| 10,338.0     | 1.20        | 267.10                   | 10,331.2      | -170.5        | 162.7         | 0.23                | 0.21                 | 5.00                | -21.9                  | 4.2                     |  |
| 10,526.0     | 0.50        | 260.10                   | 10,519.2      | -170.7        | 160.0         | 0.38                | -0.37                | -3.72               | -25.0                  | 1.3                     |  |
| 10,712.0     | 0.90        | 237.00                   | 10,705.2      | -171.7        | 157.9         | 0.26                | 0.22                 | -12.42              | -25.7                  | -9.0                    |  |
| 10,899.0     | 1.40        | 9.30                     | 10,892.2      | -170.2        | 157.1         | 1.13                | 0.27                 | 70.75               | 9.4                    | 26.2                    |  |
| 11,087.0     | 2.20        | 357.30                   | 11,080.1      | -164.3        | 157.3         | 0.47                | 0.43                 | -6.38               | -2.1                   | 27.1                    |  |
| 11,275.0     | 2.30        | 354.80                   | 11,267.9      | -157.0        | 156.8         | 0.07                | 0.05                 | -1.33               | -10.6                  | 26.8                    |  |
| 11,462.0     | 2.30        | 328.20                   | 11,454.8      | -150.1        | 154.4         | 0.57                | 0.00                 | -14.22              | -28.6                  | 17.5                    |  |
| 11,491.0     | 1.80        | 323.60                   | 11,483.8      | -149.2        | 153.9         | 1.81                | -1.72                | -15.86              | -31.0                  | 15.1                    |  |
| 11,570.0     | 1.60        | 319.90                   | 11,562.7      | -147.4        | 152.4         | 0.29                | -0.25                | -4.68               | -34.2                  | 13.0                    |  |
| 11,664.0     | 1.00        | 52.10                    | 11,656.7      | -145.8        | 152.2         | 2.04                | -0.64                | 98.09               | 13.5                   | 35.0                    |  |
| 11,757.0     | 5.30        | 14.40                    | 11,749.6      | -141.2        | 153.9         | 4.89                | 4.62                 | -40.54              | -15.6                  | 35.5                    |  |

# PVA Report

|                  |                             |                                     |                               |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H                    |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25 @ 3374.0usft (HP 620) |
| <b>Site:</b>     | Gem 36 State Com            | <b>MD Reference:</b>                | KB = 25 @ 3374.0usft (HP 620) |
| <b>Well:</b>     | #707H                       | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | EDM 5000.14                   |

| Survey                                                                 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                                                           | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 11,770.8                                                               | 7.23       | 12.53                    | 11,763.3      | -139.7        | 154.3         | 14.09               | 14.01                | -13.62              | -18.1                  | 34.9                    |  |
| KOP (Gem 36 State Com #707H)                                           |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 11,804.0                                                               | 11.90      | 10.50                    | 11,796.0      | -134.3        | 155.4         | 14.09               | 14.05                | -6.09               | -23.0                  | 33.8                    |  |
| 11,851.0                                                               | 17.60      | 16.20                    | 11,841.5      | -122.7        | 158.2         | 12.50               | 12.13                | 12.13               | -25.2                  | 34.4                    |  |
| 11,898.0                                                               | 21.30      | 16.70                    | 11,885.8      | -107.7        | 162.7         | 7.88                | 7.87                 | 1.06                | -29.8                  | 31.1                    |  |
| 11,945.0                                                               | 22.60      | 10.80                    | 11,929.4      | -90.7         | 166.8         | 5.44                | 2.77                 | -12.55              | -34.2                  | 24.0                    |  |
| 11,992.0                                                               | 27.70      | 6.10                     | 11,971.9      | -70.9         | 169.7         | 11.65               | 10.85                | -10.00              | -34.8                  | 18.4                    |  |
| 12,039.0                                                               | 32.40      | 4.30                     | 12,012.6      | -47.5         | 171.8         | 10.18               | 10.00                | -3.83               | -33.2                  | 15.3                    |  |
| 12,086.0                                                               | 38.90      | 4.50                     | 12,050.7      | -20.2         | 173.9         | 13.83               | 13.83                | 0.43                | -30.8                  | 13.1                    |  |
| 12,133.0                                                               | 45.20      | 3.20                     | 12,085.6      | 11.2          | 176.0         | 13.53               | 13.40                | -2.77               | -28.8                  | 10.5                    |  |
| 12,179.0                                                               | 52.80      | 0.10                     | 12,115.8      | 45.9          | 176.9         | 17.28               | 16.52                | -6.74               | -27.8                  | 8.7                     |  |
| 12,226.0                                                               | 59.90      | 0.20                     | 12,141.8      | 85.0          | 177.0         | 15.11               | 15.11                | 0.21                | -27.5                  | 8.9                     |  |
| 12,256.5                                                               | 63.01      | 0.46                     | 12,156.4      | 111.8         | 177.2         | 10.24               | 10.21                | 0.86                | -27.4                  | 9.0                     |  |
| FTP Crossing, MD:12256.5, TVD:12156.4, N/S:111.8, E/W:177.2, INC:63.01 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 12,273.0                                                               | 64.70      | 0.60                     | 12,163.6      | 126.6         | 177.3         | 10.24               | 10.21                | 0.83                | -27.2                  | 8.9                     |  |
| 12,286.7                                                               | 65.69      | 0.60                     | 12,169.4      | 139.0         | 177.4         | 7.23                | 7.23                 | 0.00                | -26.9                  | 8.9                     |  |
| FTP (Gem 36 State Com #707H)                                           |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 12,320.0                                                               | 68.10      | 0.60                     | 12,182.5      | 169.6         | 177.8         | 7.23                | 7.23                 | 0.00                | -25.4                  | 8.7                     |  |
| 12,367.0                                                               | 71.00      | 1.40                     | 12,198.9      | 213.7         | 178.5         | 6.37                | 6.17                 | 1.70                | -21.2                  | 8.3                     |  |
| 12,414.0                                                               | 76.20      | 2.20                     | 12,212.1      | 258.7         | 179.9         | 11.18               | 11.06                | 1.70                | -15.6                  | 7.2                     |  |
| 12,461.0                                                               | 78.50      | 2.10                     | 12,222.4      | 304.5         | 181.7         | 4.90                | 4.89                 | -0.21               | -8.4                   | 5.7                     |  |
| 12,508.0                                                               | 84.30      | 1.00                     | 12,229.5      | 351.0         | 182.9         | 12.56               | 12.34                | -2.34               | -1.6                   | 4.6                     |  |
| 12,601.0                                                               | 90.40      | 0.60                     | 12,233.8      | 443.8         | 184.2         | 6.57                | 6.56                 | -0.43               | 2.4                    | 3.9                     |  |
| 12,708.0                                                               | 91.40      | 0.80                     | 12,232.1      | 550.8         | 185.5         | 0.95                | 0.93                 | 0.19                | 0.4                    | 3.3                     |  |
| 12,802.0                                                               | 90.70      | 0.60                     | 12,230.4      | 644.8         | 186.7         | 0.77                | -0.74                | -0.21               | -1.6                   | 2.7                     |  |
| 12,896.0                                                               | 88.60      | 0.20                     | 12,230.9      | 738.8         | 187.3         | 2.27                | -2.23                | -0.43               | -1.3                   | 2.6                     |  |
| 12,990.0                                                               | 89.10      | 359.90                   | 12,232.8      | 832.8         | 187.4         | 0.62                | 0.53                 | -0.32               | 0.3                    | 3.1                     |  |

# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3374.0usft (HP 620) |
| Site:     | Gem 36 State Com            | MD Reference:                | KB = 25 @ 3374.0usft (HP 620) |
| Well:     | #707H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey                        |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|-------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                  | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 13,083.0                      | 90.10      | 359.90                   | 12,233.5      | 925.7         | 187.2         | 1.08                | 1.08                 | 0.00                | 0.7                    | 3.8                     |  |
| 13,150.3                      | 91.39      | 0.54                     | 12,232.6      | 993.0         | 187.5         | 2.14                | 1.91                 | 0.96                | -0.4                   | 4.0                     |  |
| TGT 1(Gem 36 State Com #707H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 13,177.0                      | 91.90      | 0.80                     | 12,231.8      | 1,019.7       | 187.8         | 2.14                | 1.91                 | 0.96                | -1.2                   | 3.8                     |  |
| 13,272.0                      | 92.50      | 1.40                     | 12,228.2      | 1,114.6       | 189.6         | 0.89                | 0.63                 | 0.63                | -4.6                   | 2.6                     |  |
| 13,366.0                      | 92.50      | 1.50                     | 12,224.1      | 1,208.5       | 192.0         | 0.11                | 0.00                 | 0.11                | -8.5                   | 0.8                     |  |
| 13,460.0                      | 90.20      | 1.90                     | 12,221.9      | 1,302.4       | 194.8         | 2.48                | -2.45                | 0.43                | -10.5                  | -1.4                    |  |
| 13,554.0                      | 90.60      | 2.20                     | 12,221.2      | 1,396.4       | 198.2         | 0.53                | 0.43                 | 0.32                | -11.0                  | -4.2                    |  |
| 13,648.0                      | 89.90      | 0.30                     | 12,220.8      | 1,490.4       | 200.2         | 2.15                | -0.74                | -2.02               | -11.2                  | -5.7                    |  |
| 13,741.0                      | 90.70      | 1.70                     | 12,220.3      | 1,583.3       | 201.8         | 1.73                | 0.86                 | 1.51                | -11.5                  | -6.7                    |  |
| 13,835.0                      | 91.70      | 3.40                     | 12,218.3      | 1,677.2       | 206.0         | 2.10                | 1.06                 | 1.81                | -13.3                  | -10.3                   |  |
| 13,929.0                      | 90.70      | 1.70                     | 12,216.4      | 1,771.1       | 210.2         | 2.10                | -1.06                | -1.81               | -15.1                  | -13.9                   |  |
| 14,023.0                      | 92.00      | 2.70                     | 12,214.2      | 1,865.0       | 213.8         | 1.74                | 1.38                 | 1.06                | -17.1                  | -17.0                   |  |
| 14,117.0                      | 91.10      | 1.40                     | 12,211.6      | 1,958.9       | 217.2         | 1.68                | -0.96                | -1.38               | -19.4                  | -19.8                   |  |
| 14,151.2                      | 91.03      | 1.62                     | 12,211.0      | 1,993.0       | 218.1         | 0.68                | -0.22                | 0.65                | -20.0                  | -20.5                   |  |
| TGT 2(Gem 36 State Com #707H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 14,210.0                      | 90.90      | 2.00                     | 12,210.0      | 2,051.8       | 219.9         | 0.68                | -0.22                | 0.65                | -20.7                  | -22.0                   |  |
| 14,305.0                      | 90.80      | 1.20                     | 12,208.6      | 2,146.8       | 222.6         | 0.85                | -0.11                | -0.84               | -21.7                  | -24.0                   |  |
| 14,419.0                      | 90.70      | 0.60                     | 12,207.1      | 2,260.8       | 224.4         | 0.53                | -0.09                | -0.53               | -22.6                  | -25.1                   |  |
| 14,513.0                      | 90.40      | 357.00                   | 12,206.2      | 2,354.7       | 222.4         | 3.84                | -0.32                | -3.83               | -23.0                  | -22.6                   |  |
| 14,607.0                      | 90.90      | 357.20                   | 12,205.1      | 2,448.6       | 217.7         | 0.57                | 0.53                 | 0.21                | -23.6                  | -17.2                   |  |
| 14,701.0                      | 91.80      | 356.50                   | 12,202.9      | 2,542.4       | 212.5         | 1.21                | 0.96                 | -0.74               | -25.4                  | -11.5                   |  |
| 14,795.0                      | 90.70      | 355.40                   | 12,200.9      | 2,636.2       | 205.9         | 1.65                | -1.17                | -1.17               | -26.9                  | -4.3                    |  |
| 14,889.0                      | 91.40      | 358.40                   | 12,199.1      | 2,730.0       | 200.8         | 3.28                | 0.74                 | 3.19                | -28.2                  | 1.3                     |  |
| 14,982.0                      | 93.60      | 0.60                     | 12,195.1      | 2,822.9       | 200.0         | 3.34                | 2.37                 | 2.37                | -31.8                  | 2.7                     |  |
| 15,077.0                      | 94.90      | 0.80                     | 12,188.0      | 2,917.6       | 201.1         | 1.38                | 1.37                 | 0.21                | -38.3                  | 2.1                     |  |

# PVA Report

|                  |                             |                                     |                               |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H                    |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25 @ 3374.0usft (HP 620) |
| <b>Site:</b>     | Gem 36 State Com            | <b>MD Reference:</b>                | KB = 25 @ 3374.0usft (HP 620) |
| <b>Well:</b>     | #707H                       | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | EDM 5000.14                   |

| MD<br>(usft)                                                                   | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Batid<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 15,150.5                                                                       | 93.48      | 1.35                     | 12,182.7      | 2,990.9       | 202.5         | 2.08                | -1.94                | 0.75                | -43.3                  | 1.2                     |
| <b>TGT 3(Gem 36 State Com #707H)</b>                                           |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 15,170.0                                                                       | 93.10      | 1.50                     | 12,181.6      | 3,010.4       | 203.0         | 2.08                | -1.94                | 0.75                | -44.3                  | 0.8                     |
| 15,264.0                                                                       | 90.40      | 0.60                     | 12,178.7      | 3,104.3       | 204.7         | 3.03                | -2.87                | -0.96               | -46.1                  | -0.3                    |
| 15,358.0                                                                       | 92.30      | 3.00                     | 12,176.5      | 3,198.2       | 207.6         | 3.26                | 2.02                 | 2.55                | -47.3                  | -2.7                    |
| 15,452.0                                                                       | 88.60      | 359.70                   | 12,175.7      | 3,292.2       | 209.9         | 5.27                | -3.94                | -3.51               | -47.0                  | -4.3                    |
| 15,546.0                                                                       | 91.10      | 359.80                   | 12,176.0      | 3,386.2       | 209.5         | 2.66                | 2.66                 | 0.11                | -45.7                  | -3.3                    |
| 15,640.0                                                                       | 93.00      | 1.20                     | 12,172.6      | 3,480.1       | 210.3         | 2.51                | 2.02                 | 1.49                | -48.1                  | -3.6                    |
| 15,733.0                                                                       | 94.40      | 2.10                     | 12,166.6      | 3,572.9       | 212.9         | 1.79                | 1.51                 | 0.97                | -53.0                  | -5.7                    |
| 15,826.0                                                                       | 91.00      | 1.30                     | 12,162.2      | 3,665.7       | 215.7         | 3.76                | -3.66                | -0.86               | -56.4                  | -7.9                    |
| 15,920.0                                                                       | 90.80      | 0.70                     | 12,160.8      | 3,759.7       | 217.3         | 0.67                | -0.21                | -0.64               | -56.8                  | -8.9                    |
| 16,014.0                                                                       | 91.60      | 1.40                     | 12,158.8      | 3,853.6       | 219.1         | 1.13                | 0.85                 | 0.74                | -57.8                  | -10.1                   |
| 16,108.0                                                                       | 92.10      | 1.90                     | 12,155.8      | 3,947.6       | 221.8         | 0.75                | 0.53                 | 0.53                | -59.8                  | -12.2                   |
| 16,151.9                                                                       | 92.61      | 1.81                     | 12,153.9      | 3,991.4       | 223.2         | 1.19                | 1.17                 | -0.21               | -61.1                  | -13.4                   |
| <b>TGT 4(Gem 36 State Com #707H)</b>                                           |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 16,202.0                                                                       | 93.20      | 1.70                     | 12,151.4      | 4,041.4       | 224.7         | 1.19                | 1.17                 | -0.21               | -62.7                  | -14.6                   |
| 16,296.0                                                                       | 93.80      | 0.70                     | 12,145.7      | 4,135.2       | 226.7         | 1.24                | 0.64                 | -1.06               | -66.6                  | -16.0                   |
| 16,390.0                                                                       | 91.70      | 359.90                   | 12,141.2      | 4,229.1       | 227.2         | 2.39                | -2.23                | -0.85               | -69.1                  | -15.9                   |
| 16,484.0                                                                       | 93.30      | 1.70                     | 12,137.1      | 4,323.0       | 228.5         | 2.56                | 1.70                 | 1.91                | -71.3                  | -16.6                   |
| 16,578.0                                                                       | 89.80      | 0.70                     | 12,134.5      | 4,416.9       | 230.4         | 3.87                | -3.72                | -1.06               | -71.9                  | -18.0                   |
| 16,671.0                                                                       | 89.50      | 0.70                     | 12,135.1      | 4,509.9       | 231.6         | 0.32                | -0.32                | 0.00                | -69.5                  | -18.6                   |
| 16,765.0                                                                       | 89.00      | 0.30                     | 12,136.3      | 4,603.9       | 232.4         | 0.68                | -0.53                | -0.43               | -66.3                  | -18.8                   |
| 16,859.0                                                                       | 89.50      | 0.80                     | 12,137.5      | 4,697.9       | 233.3         | 0.75                | 0.53                 | 0.53                | -63.1                  | -19.1                   |
| 16,894.1                                                                       | 91.38      | 1.38                     | 12,137.3      | 4,733.0       | 234.0         | 5.59                | 5.34                 | 1.64                | -62.7                  | -19.6                   |
| <b>LTP Crossing, MD:16894.1, TVD:12137.3, N/S:4733.0, E/W:234.0, INC:91.38</b> |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 16,932.0                                                                       | 93.40      | 2.00                     | 12,135.7      | 4,770.8       | 235.1         | 5.59                | 5.34                 | 1.65                | -63.5                  | -20.5                   |
| <b>Final MWD Survey (MD=16932.0)</b>                                           |            |                          |               |               |               |                     |                      |                     |                        |                         |

# PVA Report

|                  |                             |                                     |                               |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H                    |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25 @ 3374.0usft (HP 620) |
| <b>Site:</b>     | Gem 38 Slate Com            | <b>MD Reference:</b>                | KB = 25 @ 3374.0usft (HP 620) |
| <b>Well:</b>     | #707H                       | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | EDM 5000.14                   |

| Survey                               |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|--------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                         | Inc<br>(°) | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 16,986.6                             | 93.40      | 2.00                     | 12,132.5      | 4,825.3       | 237.0         | 0.00                | 0.00                 | 0.00                | -65.6                  | -22.1                   |  |
| PBHL (Gem 38 State Com #707H)        |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 16,990.0                             | 93.40      | 2.00                     | 12,132.3      | 4,828.7       | 237.1         | 0.00                | 0.00                 | 0.00                | -65.7                  | -22.2                   |  |
| Final Projection to Bit (MD=16990.0) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |

| Design Annotations          |                             |                   |                |                                                                             |
|-----------------------------|-----------------------------|-------------------|----------------|-----------------------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                                                                     |
|                             |                             | +N-S<br>(usft)    | +E-W<br>(usft) |                                                                             |
| 12,256.5                    | 12,156.4                    | 111.8             | 177.2          | FTP Crossing, MD:12256.5', TVD:12156.4', N/S:111.8', E/W:177.2', INC:63.01  |
| 16,894.1                    | 12,137.3                    | 4,733.0           | 234.0          | LTP Crossing, MD:16894.1', TVD:12137.3', N/S:4733.0', E/W:234.0', INC:91.38 |
| 16,932.0                    | 12,135.7                    | 4,770.8           | 235.1          | Final MWD Survey (MD=16932.0')                                              |
| 16,990.0                    | 12,132.3                    | 4,828.7           | 237.1          | Final Projection to Bit (MD=16990.0')                                       |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Lea County, NM (NAD 83 NME)

Gem 36 State Com #707H

HP 620

Plan #2

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

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

WELL DETAILS: #707H

KB = 25 @ 3374.0ush (HP 620) 3349.0  
Northing 393671.00 Easting 758163.00 Latitude 32° 4' 49.250 N Longitude 103° 37' 59.757 W

#### SECTION DETAILS

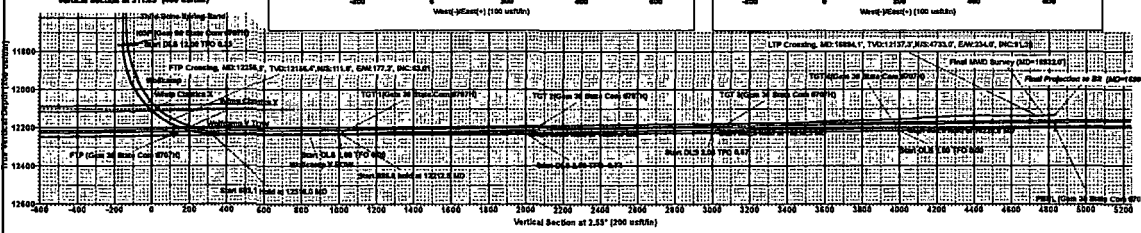
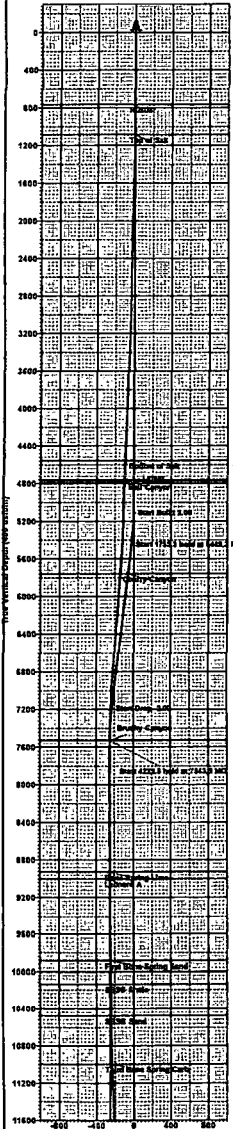
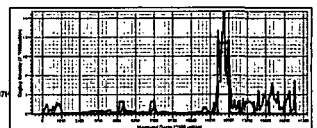
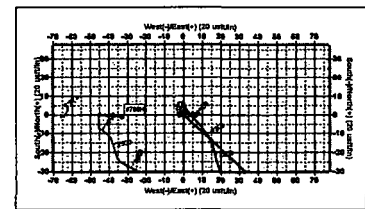
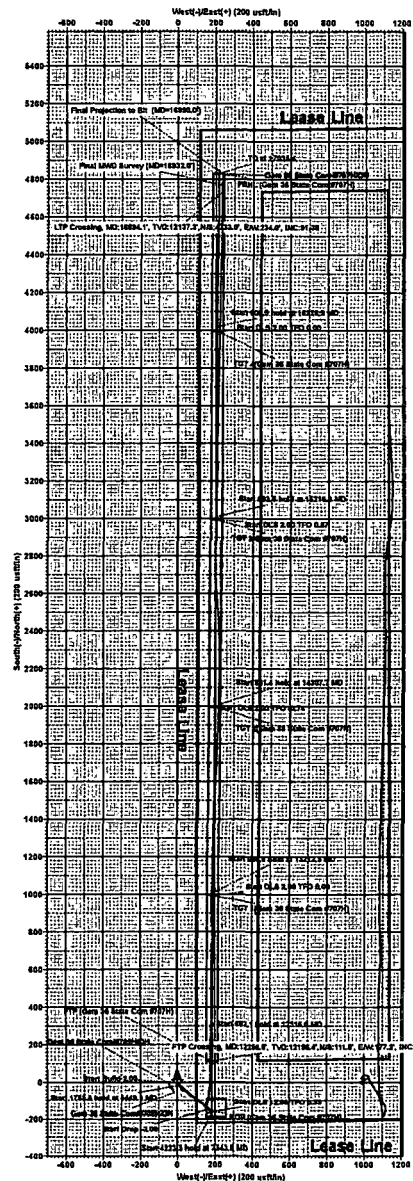
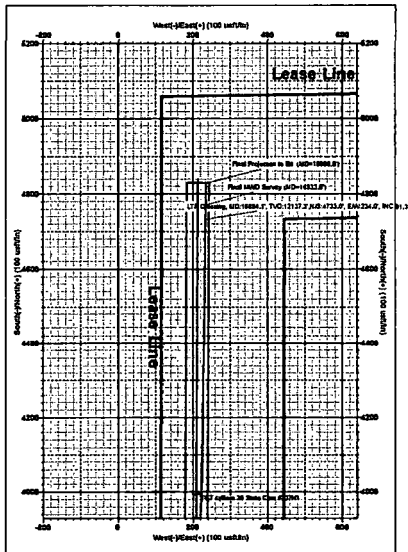
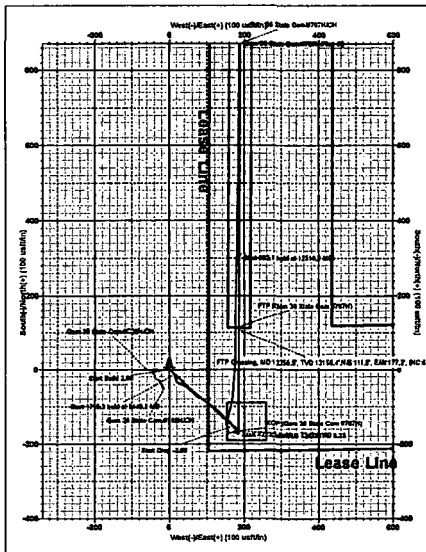
| Sec | MD      | Inc   | Azi    | TVD     | +N-S   | +E-W  | Dleg  | TFace  | V-Sect | Target                        | Annotation |
|-----|---------|-------|--------|---------|--------|-------|-------|--------|--------|-------------------------------|------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.00  | 0.00  | 0.0    | 0.0    |                               |            |
| 2   | 5110.0  | 0.00  | 0.00   | 5110.0  | 0.0    | 0.0   | 0.00  | 0.00   | 0.0    |                               |            |
| 3   | 3449.3  | 6.79  | 131.85 | 3448.5  | -13.4  | 155.0 | 2.00  | 131.85 | -12.7  |                               |            |
| 4   | 7234.6  | 6.79  | 131.85 | 7197.6  | -151.8 | 169.4 | 0.00  | 0.00   | -144.1 |                               |            |
| 5   | 7543.9  | 0.00  | 0.00   | 7530.0  | -168.2 | 184.4 | 2.00  | 180.00 | -166.9 |                               |            |
| 6   | 11767.4 | 0.00  | 0.00   | 11753.5 | -168.2 | 184.4 | 0.00  | 0.00   | -158.9 |                               |            |
| 7   | 12516.0 | 89.83 | 0.35   | 12231.0 | 310.9  | 167.3 | 12.00 | 0.35   | 318.9  |                               |            |
| 8   | 13198.1 | 89.83 | 0.35   | 12233.0 | 993.0  | 191.5 | 0.00  | 0.00   | 1000.5 | TGT 1(Gem 36 State Com #707H) |            |
| 9   | 13212.5 | 90.12 | 0.35   | 12233.0 | 1067.4 | 191.6 | 2.00  | 0.00   | 1014.9 | TGT 2(Gem 36 State Com #707H) |            |
| 10  | 14198.1 | 90.12 | 0.35   | 12231.0 | 1894.0 | 187.6 | 0.00  | 0.00   | 2000.8 | TGT 3(Gem 36 State Com #707H) |            |
| 11  | 14207.7 | 90.29 | 0.35   | 12231.0 | 2002.5 | 197.7 | 2.00  | -0.74  | 2009.3 | TGT 4(Gem 36 State Com #707H) |            |
| 12  | 15199.1 | 90.29 | 0.35   | 12226.0 | 2993.9 | 203.7 | 0.00  | 0.00   | 3000.0 |                               |            |
| 13  | 15216.3 | 90.63 | 0.35   | 12215.0 | 3011.2 | 203.8 | 2.00  | 0.57   | 3017.3 |                               |            |
| 14  | 16199.8 | 90.63 | 0.35   | 12215.0 | 3994.6 | 209.3 | 0.00  | 0.00   | 4000.0 |                               |            |
| 15  | 16226.9 | 91.17 | 0.35   | 12214.6 | 4021.7 | 210.0 | 2.00  | 0.00   | 4027.0 |                               |            |
| 16  | 17035.4 | 91.17 | 0.35   | 12198.0 | 4830.0 | 215.0 | 0.00  | 0.00   | 4834.8 | PSHL (Gem 36 State Com #707H) |            |

#### CASING DETAILS

No casing data is available

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

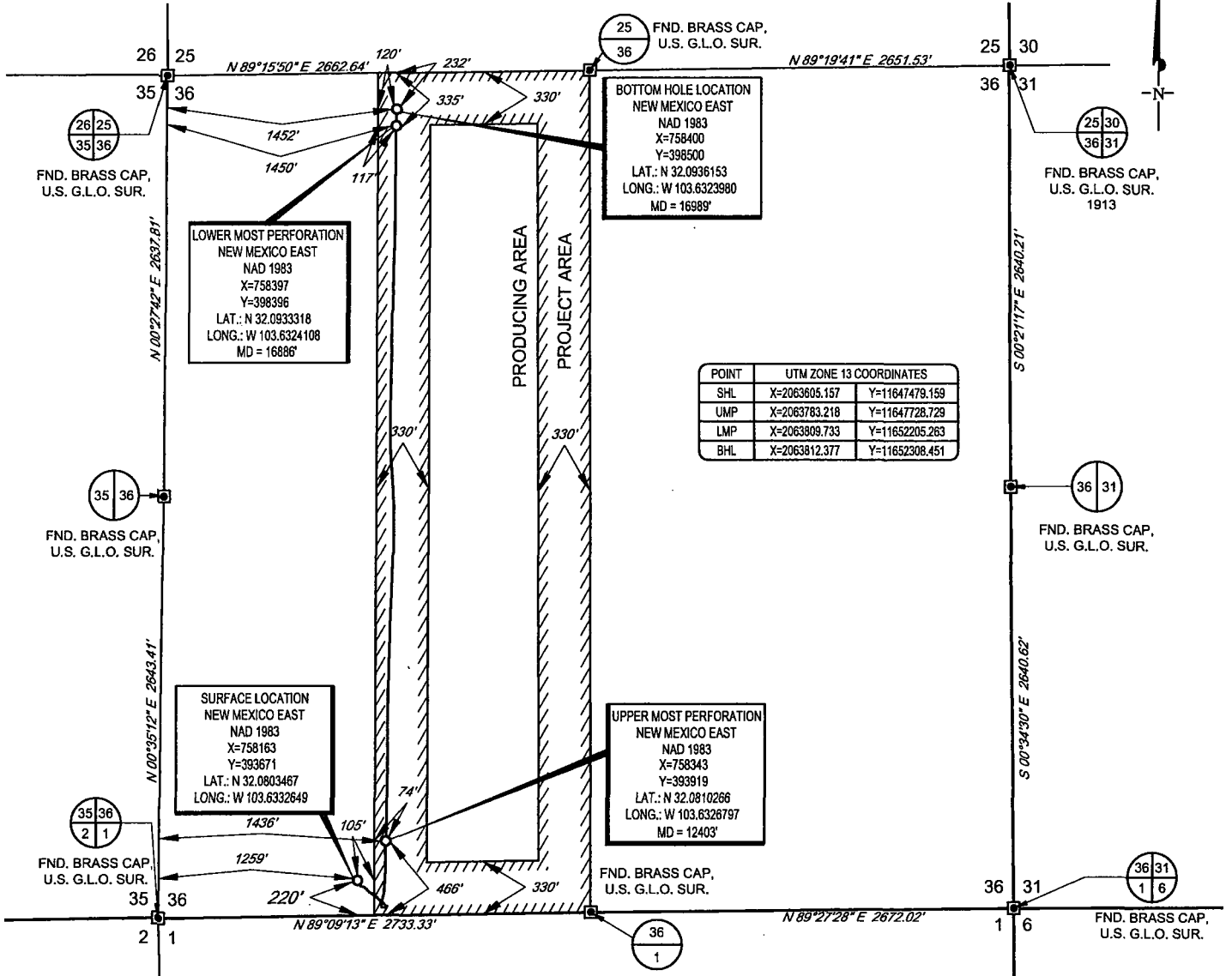
| Name                          | TVD     | +N-S   | +E-W  | Northing  | Easting   |
|-------------------------------|---------|--------|-------|-----------|-----------|
| TGT 1(Gem 36 State Com #707H) | 12233.0 | 993.0  | 191.5 | 394664.00 | 758354.49 |
| TGT 2(Gem 36 State Com #707H) | 12231.0 | 1067.4 | 191.6 | 394665.00 | 758360.63 |
| TGT 3(Gem 36 State Com #707H) | 12226.0 | 2993.9 | 203.7 | 394666.00 | 758366.71 |
| TGT 4(Gem 36 State Com #707H) | 12215.0 | 3994.6 | 209.3 | 394666.00 | 758372.87 |
| PSHL (Gem 36 State Com #707H) | 12198.0 | 4830.0 | 215.0 | 394666.00 | 758378.00 |
| FTP (Gem 36 State Com #707H)  | 12231.0 | 112.6  | 186.9 | 393783.00 | 758349.00 |
| KOP (Gem 36 State Com #707H)  | 11768.1 | -165.2 | 184.4 | 393505.94 | 758347.40 |



SCALE: 1" = 1000'

0' 500' 1000'

SECTION 36, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

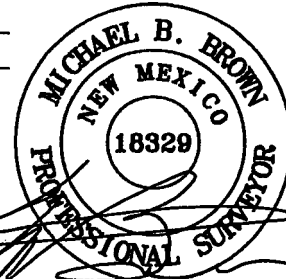


LEASE NAME & WELL NO.: GEM 36 STATE COM #707H  
SECTION 36 TWP 25-S RGE 32-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM ELEVATION 3349'  
DESCRIPTION 220' FSL & 1259' FWL



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329  
JUNE 1, 2018

**EOG resources, Inc.**

|                                         |           |      |
|-----------------------------------------|-----------|------|
| GEM 36 STATE COM<br>#707H<br>AS-DRILLED | REVISION: |      |
|                                         | INT       | DATE |
| DATE: 6/1/2018                          |           |      |
| FILE: AD_GEM_36_STATE_COM_707H          |           |      |
| DRAWN BY: IMU                           |           |      |
| SHEET: 1 OF 1                           |           |      |

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.