

HOBBS OCD  
OCT 17 2019  
RECEIVED



Lea County, NM (NAD 83 NME)

Philly 31 Fed Com #707H

Plan #1

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

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Elevation: CGD 1180  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #707H

Northing: 365108.00  
Easting: 787788.00  
KB = 1' @ 3271.0000  
3350.0  
Longitude: 102° 30' 21.761 W



To convert a Magnetic Direction to a Grid Direction, Add 6.4°  
To convert a Magnetic Direction to a True Direction, Add 6.8° East  
To convert a True Direction to a Grid Direction, Subtract 6.4°

SECTION DETAILS

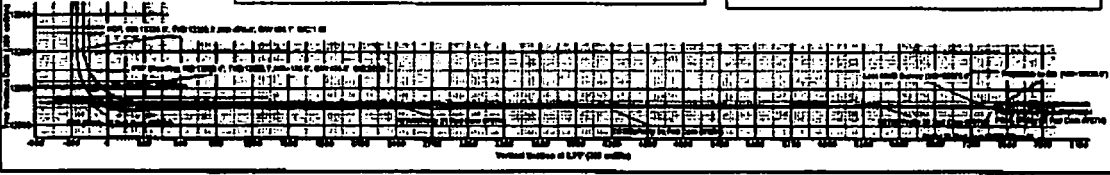
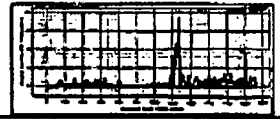
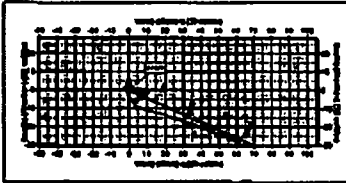
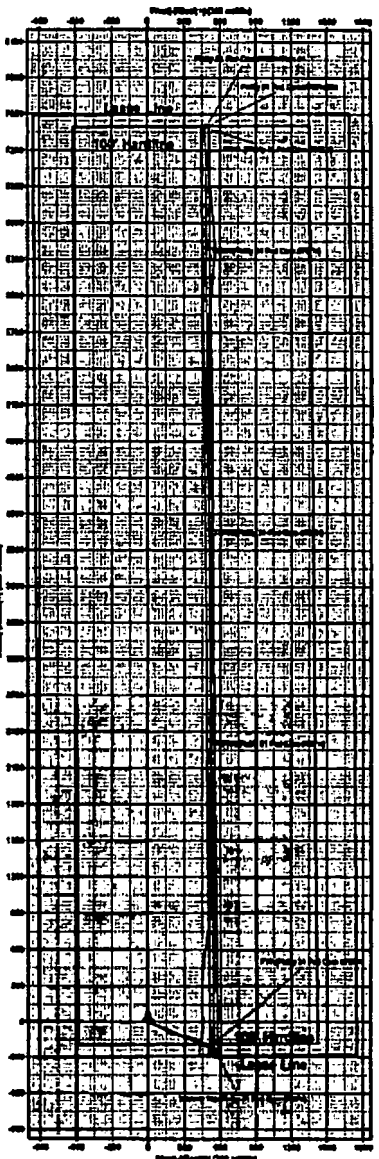
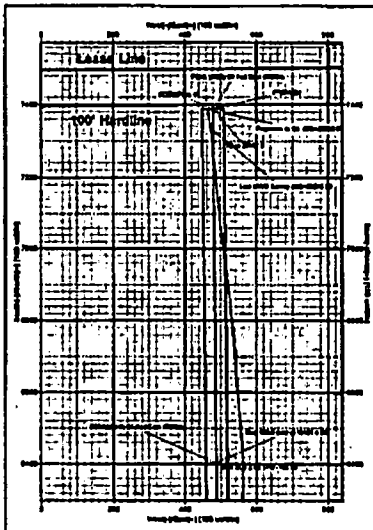
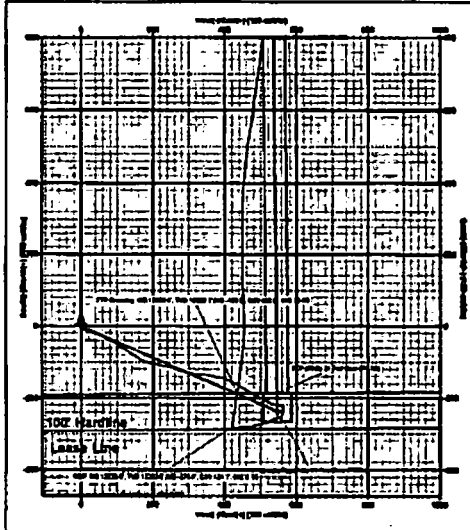
| Sec | MD      | Inc   | Azi    | TVD     | +N-S   | +E-W  | Dirg  | TFace  | VSeal  | Target                          |
|-----|---------|-------|--------|---------|--------|-------|-------|--------|--------|---------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0   | 0.00  | 0.00   | 0.0    |                                 |
| 2   | 1200.0  | 0.00  | 0.00   | 1200.0  | 0.0    | 0.0   | 0.00  | 0.00   | 0.0    |                                 |
| 3   | 1489.0  | 0.00  | 113.34 | 1489.3  | -2.2   | 14.4  | 2.00  | 113.34 | -3.3   |                                 |
| 4   | 6902.9  | 0.00  | 113.34 | 6872.7  | -22.8  | 532.0 | 0.00  | 0.00   | -184.0 |                                 |
| 5   | 7202.7  | 0.00  | 0.00   | 7172.6  | -336.0 | 947.0 | 3.00  | 180.00 | -300.1 |                                 |
| 6   | 12268.2 | 0.00  | 0.00   | 12237.5 | -336.0 | 947.0 | 0.00  | 0.00   | -200.1 |                                 |
| 7   | 13017.2 | 89.89 | 339.49 | 12715.0 | 240.6  | 542.8 | 12.00 | 339.49 | 276.1  |                                 |
| 8   | 15107.8 | 89.89 | 339.49 | 12719.0 | 2331.0 | 524.1 | 0.00  | 0.00   | 2380.0 | TOTR1(Philly 31 Fed Com #707H)  |
| 9   | 15110.8 | 89.84 | 339.49 | 12719.0 | 2333.7 | 524.1 | 2.00  | 180.00 | 2363.7 |                                 |
| 10  | 16852.5 | 89.84 | 339.49 | 12724.0 | 4073.8 | 508.0 | 0.00  | 0.00   | 4100.0 | TOTR2(Philly 31 Fed Com #707H)  |
| 11  | 16854.5 | 89.80 | 339.49 | 12724.0 | 4077.7 | 508.0 | 2.00  | 0.00   | 4102.0 |                                 |
| 12  | 19178.9 | 89.80 | 339.49 | 12729.0 | 6401.9 | 487.8 | 0.00  | 0.00   | 6420.0 | TOTR3(Philly 31 Fed Com #707H)  |
| 13  | 19181.4 | 89.83 | 339.49 | 12729.0 | 6404.4 | 487.8 | 2.00  | 180.00 | 6422.6 |                                 |
| 14  | 20167.0 | 89.83 | 339.49 | 12732.0 | 7390.0 | 479.0 | 0.00  | 0.00   | 7403.5 | PBR1L (Philly 31 Fed Com #707H) |

GRADING DETAILS

No grading data is available

WELLBORE TARGET DETAILS (MAY EXCEED GRADIENTS)

| Name                               | TVD     | +N-S   | +E-W  | Northing  | Easting   |
|------------------------------------|---------|--------|-------|-----------|-----------|
| Brady Top(Philly 31 Fed Com #707H) | 7891.0  | -226.0 | 947.0 | 364871.00 | 788333.00 |
| FTP (Philly 31 Fed Com #707H)      | 12715.0 | -148.0 | 947.0 | 364871.00 | 788333.00 |
| TOTR1(Philly 31 Fed Com #707H)     | 12719.0 | 524.1  | 0.00  | 364880.00 | 788333.11 |
| TOTR2(Philly 31 Fed Com #707H)     | 12724.0 | 487.8  | 0.00  | 364880.00 | 788333.00 |
| TOTR3(Philly 31 Fed Com #707H)     | 12729.0 | 6401.9 | 487.8 | 364880.00 | 788333.00 |
| PBR1L (Philly 31 Fed Com #707H)    | 12732.0 | 7390.0 | 479.0 | 364880.00 | 788333.00 |



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**OCT 07 2019**

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**EOG Resources - Midland**

Lea County, NM (NAD 83 NME)  
Philly 31 Fed Com  
#707H  
OH

**Design: OH**

**Midland PVA**

**07 July, 2019**



Midland PVA

| <b>Company:</b> EOG Resources - Midland<br><b>Project:</b> Lea County, NM (NAD 83 NME)<br><b>Site:</b> Philly 31 Fed Com<br><b>Well:</b> #707H<br><b>Wellbore:</b> OH<br><b>Design:</b> OH                                                                                                                                        |            | <b>Local Co-ordinate Reference:</b><br><b>TVD Reference:</b><br><b>MD Reference:</b><br><b>North Reference:</b><br><b>Survey Calculation Method:</b><br><b>Database:</b> |                 | <b>Well #707H</b><br>KB = 25' @ 3375.0usft<br>KB = 25' @ 3375.0usft<br>Grid<br>Minimum Curvature<br>EDM 5000.14 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------|-----------|------------|-------------|-----------------|---------------|---------------------|--|----------|-----------|------|-------|-----------------|
| <b>Project</b> Lea County, NM (NAD 83 NME)                                                                                                                                                                                                                                                                                        |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Map System:</b> US State Plane 1983<br><b>Geo Datum:</b> North American Datum 1983<br><b>Map Zone:</b> New Mexico Eastern Zone                                                                                                                                                                                                 |            | <b>System Datum:</b>                                                                                                                                                     |                 | <b>Mean Sea Level</b>                                                                                           |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Site</b> Philly 31 Fed Com                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Site Position:</b><br><b>From:</b> Map<br><b>Position Uncertainty:</b> 0.0 usft                                                                                                                                                                                                                                                |            | <b>Northing:</b> 365,084.00 usft<br><b>Easting:</b> 794,820.00 usft<br><b>Slot Radius:</b> 13-3/16 "                                                                     |                 | <b>Latitude:</b> 32° 0' 3.819 N<br><b>Longitude:</b> 103° 30' 56.229 W<br><b>Grid Convergence:</b> 0.43 °       |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Well</b> #707H                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Well Position</b> +NLS 0.0 usft<br>+EJW 0.0 usft<br><b>Position Uncertainty</b> 0.0 usft                                                                                                                                                                                                                                       |            | <b>Northing:</b> 365,109.00 usft<br><b>Easting:</b> 797,768.00 usft<br><b>Wellhead Elevation:</b> usft                                                                   |                 | <b>Latitude:</b> 32° 0' 3.843 N<br><b>Longitude:</b> 103° 30' 21.762 W<br><b>Ground Level:</b> 3,350.0 usft     |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Wellbore</b> OH                                                                                                                                                                                                                                                                                                                |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2015</td> <td>9/18/2017</td> <td>6.66</td> <td>59.66</td> <td>47,768.47327739</td> </tr> </tbody> </table> |            |                                                                                                                                                                          |                 |                                                                                                                 |                     | Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |  | IGRF2015 | 9/18/2017 | 6.66 | 59.66 | 47,768.47327739 |
| Magnetics                                                                                                                                                                                                                                                                                                                         | Model Name | Sample Date                                                                                                                                                              | Declination (°) | Dip Angle (°)                                                                                                   | Field Strength (nT) |           |            |             |                 |               |                     |  |          |           |      |       |                 |
|                                                                                                                                                                                                                                                                                                                                   | IGRF2015   | 9/18/2017                                                                                                                                                                | 6.66            | 59.66                                                                                                           | 47,768.47327739     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Design</b> OH                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Auth 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):</b> (usft)<br>0.0                                                                                                                                   |                 | <b>Direction</b> (°)<br>3.71                                                                                    |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>Survey Program</b> Date 7/7/2019                                                                                                                                                                                                                                                                                               |            |                                                                                                                                                                          |                 |                                                                                                                 |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
| <b>From</b> (usft)<br>147.0                                                                                                                                                                                                                                                                                                       |            | <b>To</b> (usft)<br>20,330.0                                                                                                                                             |                 | <b>Survey (Wellbore)</b><br>Leam MWD (OH)                                                                       |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |
|                                                                                                                                                                                                                                                                                                                                   |            | <b>Tool Name</b><br>MWD                                                                                                                                                  |                 | <b>Description</b><br>OWSG MWD - Standard                                                                       |                     |           |            |             |                 |               |                     |  |          |           |      |       |                 |



Midland PVA

|                  |                             |                                    |                      |
|------------------|-----------------------------|------------------------------------|----------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Coordinate Reference:</b> | Well #707H           |
| <b>Project:</b>  | Lee County, NM (NAD 83 NME) | <b>TVD Reference:</b>              | KB = 25' @ 3375.00ft |
| <b>Site:</b>     | Philly 31 Fed Com           | <b>MD Reference:</b>               | KB = 25' @ 3375.00ft |
| <b>Well:</b>     | #707H                       | <b>North Reference:</b>            | Odd                  |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>  | Minimum Curvature    |
| <b>Design:</b>   | OH                          | <b>Database:</b>                   | EDM 5000.14          |

| MD<br>(feet) | Inc<br>(°) | Asl (azimuth)<br>(°) | TVD<br>(feet) | N/S<br>(feet) | E/W<br>(feet) | DLeg<br>(°/1000ft) | Built<br>(°/1000ft) | Turn<br>(°/1000ft) | High to Plan<br>(feet) | Right to Plan<br>(feet) |
|--------------|------------|----------------------|---------------|---------------|---------------|--------------------|---------------------|--------------------|------------------------|-------------------------|
| 0.0          | 0.00       | 0.00                 | 0.0           | 0.0           | 0.0           | 0.00               | 0.00                | 0.00               | 0.0                    | 0.0                     |
| 147.0        | 0.40       | 207.90               | 147.0         | -0.5          | -0.2          | 0.27               | 0.27                | 0.00               | -0.3                   | 0.0                     |
| 319.0        | 0.40       | 172.40               | 319.0         | -1.6          | -0.4          | 0.14               | 0.00                | -20.64             | -1.5                   | -0.6                    |
| 493.0        | 0.50       | 143.10               | 493.0         | -2.8          | 0.1           | 0.13               | 0.06                | -15.69             | -2.3                   | -1.5                    |
| 582.0        | 0.60       | 147.60               | 582.0         | -3.5          | 0.5           | 0.12               | 0.11                | 3.15               | -3.3                   | -1.4                    |
| 675.0        | 0.60       | 151.30               | 675.0         | -4.4          | 1.0           | 0.04               | 0.00                | 3.66               | -4.3                   | -1.2                    |
| 769.0        | 0.60       | 138.00               | 769.0         | -5.1          | 1.8           | 0.17               | 0.00                | -16.28             | -4.8                   | -2.4                    |
| 863.0        | 0.50       | 162.50               | 863.0         | -5.9          | 2.1           | 0.29               | -0.11               | 28.19              | -6.2                   | 0.2                     |
| 940.0        | 0.40       | 117.10               | 940.0         | -6.3          | 2.4           | 0.47               | -0.13               | -58.96             | -5.0                   | -4.9                    |
| 1,039.0      | 0.70       | 145.60               | 1,039.0       | -7.0          | 3.1           | 0.40               | 0.30                | 28.99              | -7.5                   | -1.4                    |
| 1,134.0      | 0.80       | 148.00               | 1,134.0       | -8.0          | 3.8           | 0.11               | 0.11                | 0.21               | -8.9                   | -1.4                    |
| 1,228.0      | 2.60       | 110.50               | 1,227.9       | -9.3          | 6.1           | 2.13               | 1.91                | -37.77             | -8.9                   | -6.6                    |
| 1,322.0      | 4.50       | 105.90               | 1,321.7       | -11.1         | 11.7          | 2.04               | 2.02                | -4.69              | -11.7                  | -7.1                    |
| 1,416.0      | 6.70       | 107.00               | 1,415.3       | -13.7         | 20.5          | 2.34               | 2.34                | 1.17               | -13.5                  | -6.2                    |
| 1,510.0      | 7.50       | 108.70               | 1,508.6       | -17.2         | 31.5          | 0.88               | 0.85                | 1.81               | -16.7                  | -4.9                    |
| 1,603.0      | 7.50       | 108.70               | 1,600.8       | -21.1         | 43.0          | 0.00               | 0.00                | 0.00               | -21.2                  | -4.1                    |
| 1,697.0      | 7.60       | 112.60               | 1,693.9       | -25.5         | 54.6          | 0.58               | 0.11                | 4.36               | -23.9                  | -2.0                    |
| 1,790.0      | 7.80       | 115.20               | 1,786.1       | -30.5         | 65.8          | 0.34               | 0.00                | 2.58               | -26.6                  | -1.1                    |
| 1,883.0      | 7.70       | 117.70               | 1,878.3       | -36.0         | 78.9          | 0.37               | 0.11                | 2.69               | -29.3                  | -0.4                    |
| 1,977.0      | 7.70       | 118.40               | 1,971.5       | -42.0         | 88.0          | 0.10               | 0.00                | 0.74               | -32.2                  | -0.8                    |
| 2,071.0      | 7.70       | 120.70               | 2,064.6       | -48.2         | 98.9          | 0.33               | 0.00                | 2.45               | -35.6                  | -0.8                    |
| 2,164.0      | 8.10       | 122.30               | 2,156.7       | -54.8         | 109.8         | 0.49               | 0.43                | 1.72               | -38.3                  | -0.9                    |
| 2,258.0      | 8.00       | 123.00               | 2,249.8       | -61.9         | 120.9         | 0.15               | -0.11               | 0.74               | -41.8                  | -2.0                    |
| 2,352.0      | 8.20       | 123.00               | 2,342.9       | -69.2         | 132.0         | 0.21               | 0.21                | 0.00               | -45.4                  | -3.7                    |
| 2,445.0      | 8.50       | 123.00               | 2,434.9       | -76.5         | 143.4         | 0.32               | 0.32                | 0.00               | -48.3                  | -5.3                    |
| 2,538.0      | 9.10       | 123.00               | 2,526.6       | -84.3         | 155.3         | 0.65               | 0.65                | 0.00               | -54.0                  | -6.9                    |
| 2,632.0      | 9.20       | 122.80               | 2,619.6       | -92.4         | 167.8         | 0.11               | 0.11                | -0.21              | -59.3                  | -8.8                    |



Midland PVA

| Company: EOG Resources - Midland<br>Project: Lea County, NM (NAD 83 NME)<br>Sheet: Philly 31 Fed Corn<br>Well: #707H<br>Wellbore: OH<br>Design: OH |            |                      | Local Co-ordinate Reference:<br>TVD Reference:<br>MD Reference:<br>North Reference:<br>Survey Calculation Method:<br>Database: |              |              |                     |                      | Well #707H<br>KB = 25' @ 3375.0ush<br>KB = 25' @ 3375.0ush<br>Grid<br>Minimum Curvature<br>EDM 5000.14 |                        |                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------------|----------------------|--------------------------------------------------------------------------------------------------------|------------------------|-------------------------|--|
| Survey                                                                                                                                             |            |                      |                                                                                                                                |              |              |                     |                      |                                                                                                        |                        |                         |  |
| MD<br>(usft)                                                                                                                                       | Inc<br>(°) | Asl (azimuth)<br>(°) | TVD<br>(usft)                                                                                                                  | Ns<br>(usft) | EW<br>(usft) | DLog<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft)                                                                                    | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 2,725.0                                                                                                                                            | 7.20       | 108.40               | 2,711.8                                                                                                                        | -98.3        | 179.8        | 3.07                | -2.15                | -15.48                                                                                                 | -58.6                  | -24.2                   |  |
| 2,819.0                                                                                                                                            | 8.40       | 102.90               | 2,805.0                                                                                                                        | -101.3       | 180.3        | 1.10                | -0.85                | -3.85                                                                                                  | -57.5                  | -28.4                   |  |
| 2,912.0                                                                                                                                            | 8.30       | 101.50               | 2,897.4                                                                                                                        | -103.5       | 200.4        | 0.20                | -0.11                | -1.51                                                                                                  | -57.6                  | -28.0                   |  |
| 3,006.0                                                                                                                                            | 7.10       | 101.40               | 2,990.8                                                                                                                        | -105.6       | 211.1        | 0.83                | 0.85                 | -0.11                                                                                                  | -58.9                  | -28.0                   |  |
| 3,100.0                                                                                                                                            | 7.20       | 100.70               | 3,084.0                                                                                                                        | -107.9       | 222.6        | 0.14                | 0.11                 | -0.74                                                                                                  | -60.7                  | -24.7                   |  |
| 3,193.0                                                                                                                                            | 7.70       | 98.20                | 3,178.2                                                                                                                        | -109.8       | 234.5        | 0.64                | 0.54                 | -2.69                                                                                                  | -62.3                  | -25.0                   |  |
| 3,287.0                                                                                                                                            | 7.70       | 106.60               | 3,269.4                                                                                                                        | -112.5       | 246.8        | 1.20                | 0.00                 | 8.94                                                                                                   | -68.1                  | -13.8                   |  |
| 3,380.0                                                                                                                                            | 8.20       | 108.50               | 3,361.5                                                                                                                        | -116.2       | 259.1        | 0.54                | 0.54                 | -0.11                                                                                                  | -71.3                  | -12.8                   |  |
| 3,474.0                                                                                                                                            | 7.50       | 111.70               | 3,454.8                                                                                                                        | -120.4       | 271.2        | 1.08                | -0.74                | 5.53                                                                                                   | -75.1                  | -5.2                    |  |
| 3,567.0                                                                                                                                            | 6.60       | 104.40               | 3,546.9                                                                                                                        | -124.0       | 282.0        | 1.36                | -0.97                | -7.85                                                                                                  | -75.7                  | -13.8                   |  |
| 3,660.0                                                                                                                                            | 4.80       | 109.40               | 3,639.5                                                                                                                        | -126.6       | 290.9        | 2.01                | -1.84                | 5.36                                                                                                   | -76.1                  | -8.2                    |  |
| 3,753.0                                                                                                                                            | 4.20       | 111.20               | 3,732.2                                                                                                                        | -129.1       | 297.7        | 0.66                | -0.65                | 1.94                                                                                                   | -73.8                  | -3.3                    |  |
| 3,847.0                                                                                                                                            | 4.50       | 101.00               | 3,825.9                                                                                                                        | -131.0       | 304.6        | 0.88                | 0.32                 | -10.85                                                                                                 | -69.6                  | -14.6                   |  |
| 3,940.0                                                                                                                                            | 6.80       | 94.70                | 3,918.4                                                                                                                        | -132.2       | 313.6        | 2.56                | 2.47                 | -6.77                                                                                                  | -67.5                  | -19.6                   |  |
| 4,034.0                                                                                                                                            | 7.70       | 93.30                | 4,011.7                                                                                                                        | -133.0       | 323.5        | 0.98                | 0.98                 | -1.49                                                                                                  | -69.6                  | -18.0                   |  |
| 4,128.0                                                                                                                                            | 7.80       | 94.20                | 4,102.9                                                                                                                        | -133.8       | 337.8        | 0.17                | 0.11                 | 0.98                                                                                                   | -73.2                  | -13.7                   |  |
| 4,220.0                                                                                                                                            | 6.90       | 92.20                | 4,196.1                                                                                                                        | -134.5       | 349.8        | 1.00                | -0.96                | -2.13                                                                                                  | -75.6                  | -12.9                   |  |
| 4,314.0                                                                                                                                            | 6.20       | 105.90               | 4,289.5                                                                                                                        | -136.1       | 360.4        | 1.82                | -0.74                | 14.57                                                                                                  | -77.3                  | 7.9                     |  |
| 4,407.0                                                                                                                                            | 5.60       | 104.40               | 4,382.0                                                                                                                        | -138.7       | 369.8        | 0.46                | -0.43                | -1.61                                                                                                  | -77.6                  | 7.2                     |  |
| 4,501.0                                                                                                                                            | 5.50       | 103.10               | 4,475.5                                                                                                                        | -140.8       | 378.7        | 0.33                | -0.32                | -1.36                                                                                                  | -77.3                  | 7.1                     |  |
| 4,594.0                                                                                                                                            | 4.90       | 100.00               | 4,568.1                                                                                                                        | -142.6       | 387.0        | 0.71                | -0.65                | -3.33                                                                                                  | -76.8                  | 5.0                     |  |
| 4,688.0                                                                                                                                            | 6.00       | 93.60                | 4,659.7                                                                                                                        | -143.5       | 395.7        | 1.36                | 1.20                 | -8.96                                                                                                  | -78.3                  | -0.8                    |  |
| 4,780.0                                                                                                                                            | 7.10       | 116.10               | 4,753.1                                                                                                                        | -146.4       | 403.8        | 2.85                | 1.17                 | 23.94                                                                                                  | -71.4                  | 29.8                    |  |
| 4,874.0                                                                                                                                            | 7.20       | 118.90               | 4,846.4                                                                                                                        | -151.8       | 416.2        | 0.39                | 0.11                 | 2.98                                                                                                   | -71.8                  | 32.5                    |  |
| 4,968.0                                                                                                                                            | 6.90       | 117.00               | 4,939.4                                                                                                                        | -158.0       | 427.8        | 1.83                | 1.81                 | -2.02                                                                                                  | -76.2                  | 29.4                    |  |
| 5,061.0                                                                                                                                            | 6.90       | 117.90               | 5,031.2                                                                                                                        | -165.0       | 441.3        | 1.09                | 1.08                 | 0.97                                                                                                   | -81.3                  | 29.9                    |  |
| 5,155.0                                                                                                                                            | 7.30       | 120.70               | 5,124.1                                                                                                                        | -171.8       | 453.5        | 2.80                | -2.77                | 2.98                                                                                                   | -84.1                  | 32.9                    |  |



Midland PVA

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H           |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3375.0ush |
| Site:     | PhBy 31 Fed Com             | MD Reference:                | KB = 25' @ 3375.0ush |
| Well:     | #707H                       | North Reference:             | Grid                 |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature    |
| Design:   | OH                          | Database:                    | EDM 5000.14          |

| MD<br>(ush) | Inc<br>(") | Adi (ndmush) | TVD<br>(ush) | N/S<br>(ush) | EW<br>(ush) | DLog<br>("/100ush) | Build<br>("/100ush) | Turn<br>("/100ush) | High to Plan<br>(ush) | Right to Plan<br>(ush) |
|-------------|------------|--------------|--------------|--------------|-------------|--------------------|---------------------|--------------------|-----------------------|------------------------|
| 5,249.0     | 6.10       | 120.20       | 5,217.5      | -177.4       | 463.0       | 1.26               | -1.26               | -0.53              | -65.6                 | 31.0                   |
| 5,342.0     | 5.50       | 121.90       | 5,310.0      | -182.2       | 471.1       | 0.67               | -0.65               | 1.83               | -84.5                 | 32.2                   |
| 5,436.0     | 5.00       | 119.30       | 5,403.6      | -186.6       | 478.5       | 0.59               | -0.53               | -2.77              | -84.6                 | 27.1                   |
| 5,530.0     | 4.80       | 120.50       | 5,497.3      | -190.6       | 485.5       | 0.15               | -0.11               | 1.28               | -82.4                 | 27.7                   |
| 5,623.0     | 7.50       | 117.40       | 5,589.7      | -195.4       | 494.3       | 2.82               | 2.60                | -3.33              | -84.1                 | 22.3                   |
| 5,717.0     | 4.50       | 116.70       | 5,683.2      | -199.9       | 503.0       | 3.19               | -3.19               | -0.74              | -84.4                 | 20.7                   |
| 5,810.0     | 4.50       | 117.90       | 5,775.9      | -203.3       | 509.5       | 0.10               | 0.00                | 1.29               | -81.8                 | 21.7                   |
| 5,904.0     | 4.10       | 116.10       | 5,869.5      | -206.5       | 515.8       | 0.45               | -0.43               | -1.91              | -78.4                 | 18.6                   |
| 5,997.0     | 3.70       | 114.40       | 5,962.4      | -209.2       | 521.5       | 0.45               | -0.43               | -1.83              | -78.8                 | 16.0                   |
| 6,090.0     | 3.30       | 112.10       | 6,055.2      | -211.7       | 526.6       | 0.53               | -0.43               | 5.05               | -71.0                 | 21.4                   |
| 6,183.0     | 3.30       | 110.50       | 6,148.1      | -214.2       | 531.3       | 0.16               | 0.00                | -2.80              | -67.5                 | 17.5                   |
| 6,277.0     | 2.80       | 110.30       | 6,242.0      | -218.4       | 535.6       | 0.53               | -0.53               | -0.21              | -62.6                 | 16.8                   |
| 6,371.0     | 1.90       | 104.90       | 6,335.9      | -217.8       | 539.4       | 1.07               | -0.86               | -12.13             | -56.9                 | 5.1                    |
| 6,464.0     | 1.70       | 106.60       | 6,428.6      | -216.6       | 542.2       | 0.22               | -0.22               | 1.83               | -52.0                 | 8.0                    |
| 6,558.0     | 1.50       | 106.80       | 6,522.8      | -219.4       | 544.7       | 0.21               | -0.21               | 0.21               | -44.8                 | 9.3                    |
| 6,652.0     | 1.20       | 104.50       | 6,616.6      | -220.0       | 546.6       | 0.32               | -0.32               | -2.45              | -37.7                 | 9.0                    |
| 6,744.0     | 1.30       | 103.60       | 6,708.8      | -220.5       | 548.8       | 0.11               | 0.11                | -0.98              | -30.3                 | 10.0                   |
| 6,838.0     | 1.30       | 88.70        | 6,802.7      | -220.7       | 550.9       | 0.36               | 0.00                | -15.85             | -25.0                 | 5.7                    |
| 6,931.0     | 1.10       | 88.00        | 6,895.7      | -220.7       | 552.8       | 0.22               | -0.22               | -0.75              | -16.4                 | 9.5                    |
| 7,025.0     | 1.10       | 88.00        | 6,989.7      | -220.6       | 554.6       | 0.00               | 0.00                | 0.00               | -13.4                 | 12.7                   |
| 7,118.0     | 1.10       | 75.90        | 7,082.7      | -220.3       | 556.4       | 0.25               | 0.00                | -13.01             | -14.0                 | 12.0                   |
| 7,211.0     | 1.10       | 83.60        | 7,175.7      | -220.0       | 558.1       | 0.16               | 0.00                | 8.49               | -12.8                 | 14.7                   |
| 7,309.0     | 0.40       | 79.40        | 7,263.6      | -219.7       | 560.6       | 0.37               | -0.37               | -2.34              | -16.3                 | 13.5                   |
| 7,506.0     | 0.40       | 117.00       | 7,350.6      | -219.9       | 561.8       | 0.14               | 0.00                | 20.11              | -5.9                  | 21.1                   |
| 7,773.0     | 0.50       | 116.60       | 7,737.6      | -220.6       | 563.1       | 0.05               | 0.05                | 0.66               | -6.8                  | 21.2                   |
| 7,868.0     | 0.40       | 129.30       | 7,830.6      | -221.0       | 563.7       | 0.14               | -0.11               | 11.51              | -3.4                  | 22.2                   |
| 7,859.0     | 0.20       | 151.30       | 7,923.6      | -221.3       | 564.0       | 0.24               | -0.22               | 23.66              | 4.7                   | 22.0                   |



Midland PVA

|                                             |  |                                                     |  |
|---------------------------------------------|--|-----------------------------------------------------|--|
| <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' @ 3375.0usft         |  |
| <b>Site:</b> Philly 31 Fed Com              |  | <b>MD Reference:</b> KB = 25' @ 3375.0usft          |  |
| <b>Well:</b> #707H                          |  | <b>North Reference:</b> Gd                          |  |
| <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>(°) | Asl (azimuth)<br>(°) | TVD<br>(usft) | NW<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|--------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 8,053.0      | 0.60       | 178.90               | 8,017.8       | -222.0       | 564.1        | 0.46                | 0.43                 | 28.36               | 13.7                   | 17.4                    |
| 8,142.0      | 0.80       | 166.00               | 8,106.6       | -223.0       | 564.3        | 0.28                | 0.22                 | -14.49              | 8.4                    | 16.9                    |
| 8,235.0      | 0.90       | 175.70               | 8,199.6       | -224.4       | 564.5        | 0.19                | 0.11                 | 10.43               | 10.3                   | 18.3                    |
| 8,328.0      | 1.00       | 190.30               | 8,292.6       | -225.9       | 564.4        | 0.26                | 0.11                 | 15.70               | 13.0                   | 15.3                    |
| 8,422.0      | 1.20       | 172.60               | 8,388.6       | -227.7       | 564.4        | 0.42                | 0.21                 | -18.83              | 6.0                    | 18.3                    |
| 8,515.0      | 1.10       | 180.10               | 8,478.6       | -229.8       | 564.5        | 0.19                | -0.11                | 8.08                | 6.5                    | 17.5                    |
| 8,608.0      | 1.00       | 178.20               | 8,572.5       | -231.3       | 564.5        | 0.11                | -0.11                | -2.04               | 4.2                    | 17.7                    |
| 8,702.0      | 1.30       | 180.50               | 8,668.5       | -233.2       | 564.5        | 0.32                | 0.32                 | 2.45                | 3.0                    | 17.5                    |
| 8,795.0      | 1.10       | 187.50               | 8,759.5       | -235.1       | 564.4        | 0.27                | -0.22                | 7.53                | 3.2                    | 17.2                    |
| 8,889.0      | 1.30       | 190.00               | 8,853.5       | -237.0       | 564.1        | 0.22                | 0.21                 | 2.66                | 2.0                    | 17.0                    |
| 8,982.0      | 1.40       | 187.00               | 8,948.5       | -239.2       | 563.8        | 0.13                | 0.11                 | -3.23               | -1.1                   | 17.1                    |
| 9,075.0      | 1.40       | 195.60               | 9,039.4       | -241.4       | 563.4        | 0.23                | 0.00                 | 9.25                | -0.8                   | 17.2                    |
| 9,169.0      | 1.40       | 198.20               | 9,133.4       | -243.6       | 562.7        | 0.07                | 0.00                 | 2.77                | -2.3                   | 17.3                    |
| 9,262.0      | 1.40       | 204.00               | 9,226.4       | -245.7       | 561.9        | 0.15                | 0.00                 | 6.24                | -2.9                   | 17.5                    |
| 9,356.0      | 1.70       | 195.80               | 9,320.3       | -248.1       | 561.0        | 0.40                | 0.32                 | -8.72               | -7.9                   | 16.8                    |
| 9,449.0      | 1.60       | 196.60               | 9,413.3       | -250.7       | 560.3        | 0.11                | -0.11                | 0.88                | -10.3                  | 16.9                    |
| 9,542.0      | 1.50       | 189.30               | 9,506.3       | -253.1       | 559.5        | 0.13                | -0.11                | 2.90                | -12.0                  | 17.4                    |
| 9,636.0      | 1.30       | 192.80               | 9,600.2       | -255.3       | 558.9        | 0.27                | -0.21                | -6.91               | -16.2                  | 15.8                    |
| 9,730.0      | 1.20       | 191.00               | 9,694.2       | -257.3       | 558.4        | 0.11                | -0.11                | -1.91               | -16.7                  | 15.3                    |
| 9,824.0      | 0.60       | 221.80               | 9,788.2       | -258.6       | 557.9        | 0.80                | -0.64                | 32.77               | -9.6                   | 23.2                    |
| 9,918.0      | 0.50       | 326.00               | 9,882.2       | -258.7       | 557.4        | 0.93                | -0.11                | 110.85              | 24.8                   | 4.1                     |
| 10,011.0     | 0.70       | 339.90               | 9,975.2       | -257.8       | 556.9        | 0.26                | 0.22                 | 14.95               | 23.9                   | -1.8                    |
| 10,105.0     | 0.70       | 338.30               | 10,069.2      | -256.7       | 556.5        | 0.02                | 0.00                 | -1.70               | 22.8                   | -1.2                    |
| 10,200.0     | 0.60       | 317.00               | 10,164.2      | -255.8       | 556.0        | 0.27                | -0.11                | -22.42              | 20.6                   | 7.0                     |
| 10,293.0     | 1.60       | 262.40               | 10,257.2      | -255.2       | 554.4        | 1.24                | 1.08                 | -37.20              | 11.3                   | 17.2                    |
| 10,387.0     | 2.10       | 278.00               | 10,351.1      | -254.7       | 551.4        | 0.53                | 0.53                 | -4.88               | 6.9                    | 17.9                    |
| 10,481.0     | 2.90       | 258.40               | 10,445.0      | -254.9       | 547.3        | 1.20                | 0.85                 | -19.79              | -3.1                   | 18.8                    |



Midland PVA

|                                             |  |                                                     |  |
|---------------------------------------------|--|-----------------------------------------------------|--|
| <b>Company:</b> EOG Resources - Midland     |  | <b>Local Co-ordinate Reference:</b> Vail #707H      |  |
| <b>Project:</b> Lea County, NM (NAD 83 NME) |  | <b>TVD Reference:</b> KB = 25' @ 3375.0usft         |  |
| <b>Site:</b> Ph3y 31 Fed Com                |  | <b>MD Reference:</b> KB = 25' @ 3375.0usft          |  |
| <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 (usft) | bore (ft) | Asl (feet) | TVD (usft) | N/S (usft) | E/W (usft) | OLag (°/100usft) | Build (°/100usft) | Turn (°/100usft) | High to Plan (usft) | Right to Plan (usft) |
|-----------|-----------|------------|------------|------------|------------|------------------|-------------------|------------------|---------------------|----------------------|
| 10,574.0  | 3.40      | 245.70     | 10,537.0   | -250.4     | 542.5      | 0.97             | 0.54              | -14.73           | -12.5               | 16.8                 |
| 10,668.0  | 2.80      | 234.80     | 10,631.7   | -256.8     | 538.1      | 0.89             | -0.64             | -11.60           | -20.5               | 13.6                 |
| 10,761.0  | 2.80      | 239.00     | 10,724.8   | -261.4     | 534.3      | 0.22             | 0.00              | 4.52             | -23.9               | 15.2                 |
| 10,855.0  | 3.60      | 240.90     | 10,819.5   | -264.0     | 529.8      | 0.66             | 0.85              | 2.02             | -28.7               | 18.1                 |
| 10,948.0  | 5.30      | 252.40     | 10,911.2   | -266.7     | 523.1      | 2.06             | 1.63              | 12.37            | -32.0               | 22.1                 |
| 11,041.0  | 5.30      | 255.20     | 11,003.8   | -269.1     | 514.9      | 0.28             | 0.00              | 3.01             | -39.5               | 23.9                 |
| 11,135.0  | 4.30      | 252.90     | 11,097.5   | -271.3     | 507.3      | 1.08             | -1.08             | -2.45            | -48.3               | 22.1                 |
| 11,229.0  | 4.20      | 258.60     | 11,191.2   | -273.1     | 500.8      | 0.31             | -0.11             | 3.94             | -53.7               | 25.4                 |
| 11,322.0  | 3.60      | 255.20     | 11,284.0   | -274.8     | 494.4      | 0.85             | -0.85             | -1.51            | -60.7               | 24.0                 |
| 11,416.0  | 5.00      | 257.10     | 11,377.7   | -276.3     | 487.8      | 1.50             | 1.48              | 2.02             | -68.9               | 28.1                 |
| 11,510.0  | 5.50      | 255.20     | 11,471.3   | -278.4     | 479.2      | 0.56             | 0.53              | -2.02            | -76.3               | 23.7                 |
| 11,604.0  | 5.30      | 264.10     | 11,564.9   | -280.0     | 470.8      | 0.92             | -0.21             | 8.47             | -80.5               | 38.0                 |
| 11,697.0  | 5.20      | 275.20     | 11,657.5   | -280.0     | 462.1      | 1.10             | -0.11             | 11.94            | -80.5               | 51.7                 |
| 11,791.0  | 5.00      | 284.50     | 11,751.2   | -280.0     | 453.8      | 1.03             | -0.21             | -11.38           | -87.0               | 35.0                 |
| 11,885.0  | 5.80      | 284.80     | 11,844.8   | -280.6     | 445.0      | 0.85             | 0.85              | 0.32             | -105.8              | 35.6                 |
| 11,978.0  | 5.80      | 259.70     | 11,937.3   | -282.1     | 435.7      | 0.55             | 0.00              | -5.48            | -117.8              | 25.8                 |
| 12,018.0  | 5.40      | 252.40     | 11,977.1   | -283.0     | 431.9      | 2.04             | -1.00             | -16.25           | -123.9              | 10.1                 |
| 12,120.0  | 2.30      | 317.20     | 12,078.9   | -283.0     | 425.9      | 4.79             | -3.04             | 63.53            | -47.8               | 120.8                |
| 12,213.0  | 1.20      | 357.10     | 12,171.8   | -280.6     | 424.8      | 1.70             | -1.18             | 42.90            | 38.4                | 124.5                |
| 12,307.0  | 1.10      | 340.60     | 12,265.8   | -278.6     | 424.3      | 0.37             | -0.11             | -17.55           | 0.3                 | 130.2                |
| 12,400.0  | 3.60      | 351.30     | 12,358.7   | -275.1     | 423.5      | 2.72             | 2.69              | 11.51            | 33.3                | 130.1                |
| 12,494.0  | 9.80      | 12.20      | 12,452.1   | -264.3     | 424.8      | 6.98             | 6.60              | 22.23            | 94.4                | 105.5                |
| 12,587.0  | 25.80     | 7.70       | 12,540.3   | -236.4     | 429.2      | 17.26            | 17.20             | -4.84            | 101.3               | 108.1                |
| 12,648.0  | 31.00     | 6.60       | 12,594.0   | -207.8     | 432.8      | 8.57             | 8.52              | -1.80            | 105.9               | 104.0                |
| 12,680.0  | 34.60     | 9.60       | 12,620.9   | -190.4     | 435.2      | 12.34            | 11.25             | 9.37             | 113.7               | 98.6                 |
| 12,774.0  | 47.20     | 9.10       | 12,691.8   | -129.8     | 445.2      | 13.41            | 13.40             | -0.53            | 119.3               | 88.0                 |
| 12,815.0  | 53.50     | 6.40       | 12,717.9   | -98.6      | 449.4      | 16.18            | 15.37             | -8.59            | 117.3               | 88.1                 |



Midland PVA

|                  |                             |                                     |                       |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H            |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TYO Reference:</b>               | KB = 25' @ 3375.0usft |
| <b>Site:</b>     | Philly 31 Fed Com           | <b>MO Reference:</b>                | KB = 25' @ 3375.0usft |
| <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>(°) | Adj (radius)<br>(°) | TYD<br>(usft) | NBS<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Bvld<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------|--------------|------------|---------------------|---------------|---------------|--------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
|        | 12,697.0     | 63.20      | 4.20                | 12,745.2      | -54.5         | 453.4        | 19.00               | 18.65               | -4.23               | 113.4                  | 87.5                    |
|        | 12,807.0     | 72.70      | 1.30                | 12,760.2      | -17.5         | 455.2        | 24.66               | 23.75               | -7.25               | 106.1                  | 89.2                    |
|        | 12,928.0     | 78.20      | 356.60              | 12,765.5      | 2.8           | 455.3        | 27.34               | 26.18               | -8.10               | 100.6                  | 90.7                    |
|        | 12,960.0     | 87.00      | 356.20              | 12,769.8      | 34.5          | 454.7        | 27.84               | 27.50               | -4.37               | 90.4                   | 92.6                    |
|        | 13,054.0     | 88.50      | 357.50              | 12,773.3      | 128.3         | 451.2        | 1.76                | 1.80                | -0.74               | 86.9                   | 93.3                    |
|        | 13,148.0     | 92.00      | 0.50                | 12,772.8      | 222.3         | 449.6        | 4.90                | 3.72                | 3.19                | 58.1                   | 93.4                    |
|        | 13,242.0     | 93.30      | 0.80                | 12,768.5      | 318.2         | 450.8        | 1.42                | 1.38                | 0.32                | 53.2                   | 91.5                    |
|        | 13,336.0     | 90.90      | 4.90                | 12,765.1      | 410.0         | 453.3        | 5.05                | -2.55               | 4.36                | 49.8                   | 85.9                    |
|        | 13,430.0     | 81.70      | 8.00                | 12,782.9      | 503.3         | 485.8        | 3.41                | 0.85                | 3.30                | 47.6                   | 74.5                    |
|        | 13,524.0     | 91.50      | 8.00                | 12,760.3      | 596.4         | 478.9        | 0.21                | -0.21               | 0.00                | 44.8                   | 60.5                    |
|        | 13,617.0     | 92.50      | 6.50                | 12,757.1      | 688.4         | 482.3        | 1.20                | 1.08                | 0.54                | 41.3                   | 48.4                    |
|        | 13,710.0     | 90.60      | 6.70                | 12,754.5      | 780.3         | 506.2        | 2.05                | -2.04               | 0.22                | 38.7                   | 31.6                    |
|        | 13,804.0     | 90.30      | 4.50                | 12,753.8      | 873.6         | 517.0        | 4.48                | -0.32               | -4.47               | 37.6                   | 20.1                    |
|        | 13,897.0     | 88.50      | 3.30                | 12,754.0      | 966.4         | 523.3        | 1.55                | -0.88               | -1.28               | 37.6                   | 13.0                    |
|        | 13,991.0     | 89.90      | 2.70                | 12,754.5      | 1,060.3       | 528.2        | 0.77                | 0.43                | -0.64               | 37.9                   | 7.2                     |
|        | 14,085.0     | 88.90      | 2.00                | 12,755.4      | 1,154.2       | 532.1        | 1.30                | -1.06               | -0.74               | 38.7                   | 2.5                     |
|        | 14,178.0     | 89.20      | 2.40                | 12,757.0      | 1,248.1       | 535.7        | 0.53                | 0.32                | 0.43                | 40.1                   | -1.9                    |
|        | 14,273.0     | 88.80      | 2.00                | 12,758.6      | 1,342.0       | 539.3        | 0.60                | -0.43               | -0.43               | 41.5                   | -6.3                    |
|        | 14,367.0     | 91.50      | 1.20                | 12,758.4      | 1,436.0       | 541.9        | 3.00                | 2.87                | -0.65               | 41.1                   | -8.8                    |
|        | 14,459.0     | 90.70      | 359.20              | 12,758.6      | 1,528.0       | 542.2        | 2.34                | -0.87               | -2.17               | 39.2                   | -10.9                   |
|        | 14,553.0     | 87.20      | 357.80              | 12,758.3      | 1,621.9       | 539.6        | 4.01                | -3.72               | -1.48               | 40.7                   | -9.3                    |
|        | 14,647.0     | 90.40      | 358.50              | 12,760.3      | 1,715.8       | 536.7        | 3.46                | 3.40                | 0.74                | 42.5                   | -7.1                    |
|        | 14,740.0     | 90.80      | 358.90              | 12,759.3      | 1,808.9       | 534.6        | 0.81                | 0.43                | 0.43                | 41.4                   | -5.8                    |
|        | 14,833.0     | 91.50      | 359.60              | 12,757.5      | 1,901.9       | 533.4        | 1.08                | 0.75                | 0.75                | 39.3                   | -5.5                    |
|        | 14,926.0     | 89.70      | 357.70              | 12,758.5      | 1,994.7       | 531.2        | 2.81                | -1.94               | -2.04               | 38.2                   | -4.1                    |
|        | 15,020.0     | 90.10      | 357.80              | 12,758.7      | 2,088.6       | 527.5        | 0.44                | 0.43                | 0.11                | 38.1                   | -1.2                    |
|        | 15,114.0     | 90.00      | 357.10              | 12,758.6      | 2,182.6       | 523.3        | 0.75                | -0.11               | -0.74               | 37.9                   | 2.1                     |



Midland PVA

|                  |                             |                                    |                       |
|------------------|-----------------------------|------------------------------------|-----------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Coordinate Reference:</b> | Well #707H            |
| <b>Project:</b>  | Lee County, NM (NAD 83 NME) | <b>TVD Reference:</b>              | KB = 25' @ 3375.0usft |
| <b>Site:</b>     | Philly 31 Fed Com           | <b>MD Reference:</b>               | KB = 25' @ 3375.0usft |
| <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 (azimuth)<br>(°) | 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) |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 15,207.0     | 88.60      | 357.30               | 12,758.9      | 2,275.4       | 518.8         | 0.48                | -0.43                | 0.22                | 38.0                   | 5.8                     |
| 15,300.0     | 91.20      | 358.90               | 12,756.3      | 2,368.4       | 515.7         | 2.43                | 1.72                 | 1.72                | 37.2                   | 6.1                     |
| 15,394.0     | 89.90      | 1.20                 | 12,755.4      | 2,462.4       | 515.8         | 2.81                | -1.38                | 2.45                | 38.0                   | 7.1                     |
| 15,488.0     | 90.70      | 1.20                 | 12,754.9      | 2,556.3       | 517.8         | 0.85                | 0.85                 | 0.00                | 35.2                   | 4.3                     |
| 15,581.0     | 88.50      | 2.60                 | 12,755.5      | 2,649.3       | 520.8         | 2.80                | -2.37                | 1.51                | 35.6                   | 0.4                     |
| 15,674.0     | 89.10      | 4.00                 | 12,757.5      | 2,742.1       | 528.2         | 1.84                | 0.65                 | 1.51                | 37.3                   | -5.7                    |
| 15,767.0     | 91.00      | 0.10                 | 12,757.4      | 2,835.0       | 529.5         | 4.66                | 2.04                 | -4.19               | 38.9                   | -8.9                    |
| 15,861.0     | 91.70      | 1.00                 | 12,755.2      | 2,928.0       | 530.4         | 1.21                | 0.74                 | 0.88                | 34.5                   | -11.6                   |
| 15,955.0     | 89.20      | 358.90               | 12,754.4      | 3,023.0       | 530.3         | 3.47                | -2.66                | -2.23               | 33.4                   | -12.4                   |
| 16,048.0     | 90.80      | 359.80               | 12,754.3      | 3,117.0       | 529.4         | 2.10                | 1.81                 | 1.08                | 33.1                   | -12.3                   |
| 16,143.0     | 90.00      | 359.80               | 12,753.8      | 3,211.0       | 529.1         | 0.96                | -0.96                | -0.11               | 32.1                   | -12.8                   |
| 16,237.0     | 91.90      | 0.50                 | 12,752.0      | 3,304.9       | 529.4         | 2.15                | 2.02                 | 0.74                | 30.3                   | -13.9                   |
| 16,330.0     | 88.90      | 358.80               | 12,751.4      | 3,397.9       | 528.5         | 3.88                | -3.23                | -2.15               | 29.3                   | -13.9                   |
| 16,424.0     | 89.40      | 359.20               | 12,752.8      | 3,491.9       | 526.7         | 0.92                | 0.53                 | 0.74                | 30.5                   | -12.9                   |
| 16,518.0     | 90.10      | 359.40               | 12,753.2      | 3,585.9       | 525.5         | 0.77                | 0.74                 | 0.21                | 30.8                   | -12.6                   |
| 16,611.0     | 92.40      | 0.80                 | 12,751.2      | 3,678.9       | 525.5         | 2.79                | 2.47                 | 1.29                | 28.3                   | -13.4                   |
| 16,704.0     | 92.20      | 358.70               | 12,747.4      | 3,771.8       | 524.9         | 2.03                | -0.22                | -2.04               | 24.3                   | -13.7                   |
| 16,797.0     | 92.30      | 359.20               | 12,743.8      | 3,864.7       | 523.2         | 0.55                | 0.11                 | 0.54                | 20.4                   | -12.8                   |
| 16,890.0     | 91.30      | 356.80               | 12,740.9      | 3,957.8       | 520.0         | 2.79                | -1.08                | -2.58               | 17.2                   | -10.4                   |
| 16,984.0     | 87.90      | 356.80               | 12,741.5      | 4,051.4       | 514.7         | 3.62                | -3.82                | 0.00                | 17.6                   | -8.0                    |
| 17,077.0     | 90.00      | 357.10               | 12,743.2      | 4,144.3       | 509.8         | 2.28                | 2.28                 | 0.32                | 19.1                   | -1.9                    |
| 17,171.0     | 88.10      | 358.00               | 12,744.8      | 4,238.2       | 505.8         | 2.24                | -2.02                | 0.98                | 20.4                   | 1.3                     |
| 17,265.0     | 93.00      | 358.90               | 12,743.9      | 4,332.1       | 503.2         | 5.30                | 5.21                 | 0.98                | 19.3                   | 3.0                     |
| 17,358.0     | 90.10      | 358.90               | 12,741.4      | 4,425.0       | 501.5         | 3.12                | -3.12                | 0.00                | 18.6                   | 4.0                     |
| 17,452.0     | 91.10      | 359.60               | 12,740.4      | 4,518.0       | 500.2         | 1.30                | 1.06                 | 0.74                | 15.4                   | 4.4                     |
| 17,546.0     | 91.30      | 359.10               | 12,738.4      | 4,613.0       | 499.2         | 0.57                | 0.21                 | -0.53               | 13.3                   | 4.6                     |
| 17,640.0     | 88.60      | 358.70               | 12,738.5      | 4,707.0       | 497.4         | 2.90                | -2.87                | -0.43               | 13.1                   | 5.6                     |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H            |
| Project:  | Las County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3375.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3375.0usft |
| Well:     | #707H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | NR<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Bldg<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|--------------|--------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
| 17,734.0     | 88.60      | 358.50               | 12,742.4      | 4,800.8      | 485.1        | 2.14                | -2.13               | -0.21               | 16.9                   | 7.0                     |
| 17,827.0     | 88.90      | 359.20               | 12,747.7      | 4,893.7      | 483.2        | 0.82                | 0.32                | 0.75                | 21.8                   | 8.1                     |
| 17,920.0     | 91.20      | 1.20                 | 12,749.3      | 4,986.6      | 483.5        | 5.10                | 4.82                | 2.15                | 23.3                   | 8.9                     |
| 18,014.0     | 89.30      | 359.90               | 12,748.9      | 5,080.8      | 494.4        | 2.54                | -2.13               | -1.38               | 22.8                   | 5.2                     |
| 18,108.0     | 89.30      | 0.10                 | 12,750.2      | 5,174.8      | 494.4        | 0.24                | 0.11                | 0.21                | 23.8                   | 4.3                     |
| 18,202.0     | 91.30      | 1.50                 | 12,749.7      | 5,268.8      | 495.7        | 2.60                | 2.13                | 1.49                | 23.1                   | 2.2                     |
| 18,295.0     | 90.30      | 1.00                 | 12,748.4      | 5,361.8      | 497.8        | 1.20                | -1.08               | -0.54               | 21.8                   | -0.7                    |
| 18,389.0     | 90.70      | 2.00                 | 12,747.5      | 5,455.5      | 500.2        | 1.13                | 0.43                | 1.06                | 20.6                   | -4.0                    |
| 18,482.0     | 89.90      | 0.80                 | 12,747.9      | 5,548.5      | 502.3        | 2.43                | -1.94               | -1.51               | 20.7                   | -8.9                    |
| 18,576.0     | 91.30      | 1.90                 | 12,747.7      | 5,642.3      | 504.4        | 2.90                | 2.53                | 1.38                | 20.3                   | -9.8                    |
| 18,670.0     | 90.10      | 1.80                 | 12,748.8      | 5,736.4      | 507.5        | 1.28                | -1.28               | 0.00                | 19.0                   | -13.8                   |
| 18,763.0     | 91.50      | 3.50                 | 12,745.3      | 5,829.3      | 511.9        | 2.29                | 1.51                | 1.72                | 17.5                   | -18.9                   |
| 18,857.0     | 92.20      | 7.00                 | 12,742.2      | 5,922.8      | 520.5        | 3.80                | 0.74                | 3.72                | 14.5                   | -28.3                   |
| 18,951.0     | 93.80      | 5.40                 | 12,737.3      | 6,018.1      | 530.8        | 2.41                | 1.70                | -1.70               | 9.4                    | -39.3                   |
| 19,044.0     | 93.10      | 5.20                 | 12,731.7      | 6,108.8      | 539.2        | 0.78                | -0.75               | -0.22               | 3.8                    | -48.7                   |
| 19,137.0     | 94.70      | 5.70                 | 12,725.4      | 6,200.9      | 548.0        | 1.80                | 1.72                | 0.54                | -2.7                   | -58.4                   |
| 19,231.0     | 89.80      | 8.40                 | 12,722.5      | 6,294.3      | 557.8        | 6.32                | -6.28               | 0.74                | -8.5                   | -68.1                   |
| 19,340.0     | 88.60      | 357.80               | 12,726.9      | 6,403.1      | 561.9        | 8.14                | -2.02               | -7.89               | -2.0                   | -74.1                   |
| 19,418.0     | 87.00      | 355.20               | 12,731.2      | 6,480.8      | 557.1        | 3.37                | 0.51                | -3.33               | 2.3                    | -70.0                   |
| 19,511.0     | 87.90      | 355.20               | 12,735.4      | 6,573.4      | 549.4        | 0.97                | 0.97                | 0.00                | 8.1                    | -63.1                   |
| 19,605.0     | 89.30      | 355.40               | 12,737.7      | 6,667.0      | 541.7        | 1.50                | 1.49                | 0.21                | 7.9                    | -58.2                   |
| 19,698.0     | 88.00      | 358.20               | 12,738.9      | 6,759.7      | 534.9        | 1.64                | -1.40               | 0.88                | 9.9                    | -50.2                   |
| 19,792.0     | 88.30      | 352.70               | 12,744.5      | 6,853.2      | 525.8        | 4.14                | -1.81               | -3.72               | 14.5                   | -41.9                   |
| 19,885.0     | 87.30      | 353.10               | 12,748.7      | 6,945.3      | 514.3        | 1.18                | 1.08                | 0.43                | 19.3                   | -31.2                   |
| 19,978.0     | 89.80      | 353.60               | 12,752.0      | 7,038.8      | 503.4        | 2.82                | 2.77                | 0.53                | 21.2                   | -21.2                   |
| 20,073.0     | 92.70      | 353.80               | 12,748.9      | 7,132.0      | 493.0        | 2.98                | 2.88                | 0.00                | 18.7                   | -11.8                   |
| 20,168.0     | 90.00      | 353.50               | 12,747.7      | 7,224.8      | 484.1        | 3.53                | -2.90               | 2.04                | 18.2                   | -3.8                    |



Midland PVA

|                  |                             |                                     |                       |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #707H            |
| <b>Project:</b>  | Lee County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3375.0usft |
| <b>Site:</b>     | Philly 31 Fed Com           | <b>MD Reference:</b>                | KB = 25' @ 3375.0usft |
| <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>(°) | Asl (admsft)<br>(ft) | TVD<br>(usft) | NS<br>(usft) | EW<br>(usft) | CLag<br>(°/100usft) | Bldg<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|--------------|--------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
| 20,260.0     | 90.00      | 352.60               | 12,747.7      | 7,318.1      | 474.4        | 3.09                | 0.00                | -3.09               | 15.9                   | 5.2                     |
| 20,278.0     | 90.00      | 351.80               | 12,747.7      | 7,335.9      | 472.0        | 3.89                | 0.00                | -3.89               | 15.9                   | 7.5                     |
| 20,330.0     | 90.00      | 351.80               | 12,747.7      | 7,387.4      | 484.6        | 0.00                | 0.00                | 0.00                | 15.8                   | 14.3                    |

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates<br>+NS-<br>(usft) | +EW<br>(usft) | Comment                                                                   |
|-----------------------------|-----------------------------|-------------------------------------|---------------|---------------------------------------------------------------------------|
| 12,325.0                    | 12,283.8                    | -278.4                              | 424.1         | KOP, MD:12325.0', TVD:12283.8', NS:-278.4', EW:424.1', INC:1.58           |
| 12,686.4                    | 12,628.1                    | -186.8                              | 435.8         | FTP Crossing, MD:12686.4', TVD:12628.1', NS:-186.8', EW:435.8', INC:35.46 |
| 20,278.0                    | 12,747.7                    | 7,335.9                             | 472.0         | Last MWD Survey (MD=20278.0')                                             |
| 20,330.0                    | 12,747.7                    | 7,387.4                             | 484.6         | Projection to Bit (MD=20330.0')                                           |

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