

30-025-44348



**EOG Resources - Midland**

Lea County, NM (NAD 83 NME)  
Antietam 9 Fed Com  
#706H  
OH

Design: OH

**Midland PVA**

11 May, 2018

**HOBBS OCD**  
**JUL 18 2018**  
**RECEIVED**





# Midland PVA

| <b>Company:</b> EOG Resources - Midland<br><b>Project:</b> Lea County, NM (NAD 83 NME)<br><b>Site:</b> Antietam 9 Fed Com<br><b>Well:</b> #706H<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 #706H</b><br>KB = 25' @ 3465.0usft (H&P 462)<br>KB = 25' @ 3465.0usft (H&P 462)<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> Mean Sea Level                                                                                                                                      |                 |                                                                                                                                     |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Site</b> Antietam 9 Fed Com                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Site Position:</b><br>From: Map<br>Position Uncertainty: 0.0 usft                                                                                                                                                                                                                                                              |                         | <b>Northing:</b> 419,815.00 usft<br><b>Easting:</b> 774,698.00 usft<br><b>Slot Radius:</b> 13-3/16 "                                                                     |                 | <b>Latitude:</b> 32° 9' 6.852 N<br><b>Longitude:</b> 103° 34' 45.452 W<br><b>Grid Convergence:</b> 0.40 °                           |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Well</b> #706H                                                                                                                                                                                                                                                                                                                 |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Well Position</b> +N/-S 0.0 usft<br>+E/-W 0.0 usft<br>Position Uncertainty 0.0 usft                                                                                                                                                                                                                                            |                         | <b>Northing:</b> 419,936.00 usft<br><b>Easting:</b> 774,281.00 usft<br><b>Wellhead Elevation:</b> usft                                                                   |                 | <b>Latitude:</b> 32° 9' 8.078 N<br><b>Longitude:</b> 103° 34' 50.293 W<br><b>Ground Level:</b> 3,440.0 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>3/23/2018</td> <td>6.87</td> <td>59.99</td> <td>47,815.90421865</td> </tr> </tbody> </table> |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     | Magnetics         | Model Name              | Sample Date  | Declination (°) | Dip Angle (°) | Field Strength (nT) |     | IGRF2015 | 3/23/2018 | 6.87   | 59.99 | 47,815.90421865 |
| Magnetics                                                                                                                                                                                                                                                                                                                         | Model Name              | Sample Date                                                                                                                                                              | Declination (°) | Dip Angle (°)                                                                                                                       | Field Strength (nT) |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
|                                                                                                                                                                                                                                                                                                                                   | IGRF2015                | 3/23/2018                                                                                                                                                                | 6.87            | 59.99                                                                                                                               | 47,815.90421865     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Design</b> OH                                                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <b>Audit Notes:</b><br>Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0                                                                                                                                                                                                                                                               |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
| <table border="1"> <thead> <tr> <th>Vertical Section:</th> <th>Depth From (TVD) (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>176.71</td> </tr> </tbody> </table>                                               |                         |                                                                                                                                                                          |                 |                                                                                                                                     |                     | Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft)    | Direction (°) |                     | 0.0 | 0.0      | 0.0       | 176.71 |       |                 |
| Vertical Section:                                                                                                                                                                                                                                                                                                                 | Depth From (TVD) (usft) | +N/-S (usft)                                                                                                                                                             | +E/-W (usft)    | Direction (°)                                                                                                                       |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |
|                                                                                                                                                                                                                                                                                                                                   | 0.0                     | 0.0                                                                                                                                                                      | 0.0             | 176.71                                                                                                                              |                     |                   |                         |              |                 |               |                     |     |          |           |        |       |                 |



# Midland PVA

|                  |                             |                                     |                                 |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #706H                      |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Site:</b>     | Antietam 9 Fed Com          | <b>MD Reference:</b>                | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Well:</b>     | #706H                       | <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                                 | 5/11/2018 |                     |  |
|----------------|--------------|--------------------------------------|-----------|---------------------|--|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)                    | Tool Name | Description         |  |
| 173.0          | 1,261.0      | Olebrook MWD Corrected TN to GN (OH) | MWD       | OWSG MWD - Standard |  |
| 1,343.0        | 19,741.0     | Intrepid MWD (OH)                    | MWD       | OWSG MWD - Standard |  |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 0.0          | 0.00       | 0.00                 | -5.0          | 0.0           | 0.0          | 0.00                | 0.00                 | 0.00                | 0.0                    | 0.0                     |
| 173.0        | 0.44       | 182.68               | 168.0         | -0.7          | 0.0          | 0.25                | 0.25                 | 0.00                | 0.0                    | 0.0                     |
| 294.0        | 0.35       | 175.12               | 289.0         | -1.5          | 0.0          | 0.09                | -0.07                | -6.25               | 0.0                    | 0.0                     |
| 386.0        | 0.44       | 268.46               | 381.0         | -1.8          | -0.4         | 0.63                | 0.10                 | 101.46              | 0.0                    | 0.0                     |
| 480.0        | 0.53       | 92.32                | 475.0         | -1.8          | -0.3         | 1.03                | 0.10                 | -187.38             | 0.0                    | 0.0                     |
| 576.0        | 0.18       | 221.88               | 571.0         | -1.9          | 0.1          | 0.69                | -0.36                | 134.96              | 0.0                    | 0.0                     |
| 670.0        | 0.70       | 72.29                | 665.0         | -1.9          | 0.5          | 0.91                | 0.55                 | -159.14             | 0.0                    | 0.0                     |
| 796.0        | 0.70       | 79.49                | 791.0         | -1.5          | 2.0          | 0.07                | 0.00                 | 5.71                | 0.0                    | 0.0                     |
| 891.0        | 0.26       | 72.46                | 886.0         | -1.3          | 2.8          | 0.47                | -0.46                | -7.40               | 0.0                    | 0.0                     |
| 985.0        | 1.14       | 21.13                | 980.0         | -0.4          | 3.3          | 1.06                | 0.94                 | -54.61              | 0.0                    | 0.0                     |
| 1,080.0      | 0.35       | 28.87                | 1,075.0       | 0.7           | 3.8          | 0.84                | -0.83                | 8.15                | 0.0                    | 0.0                     |
| 1,174.0      | 1.06       | 43.11                | 1,169.0       | 1.6           | 4.5          | 0.77                | 0.76                 | 15.15               | 0.0                    | 0.0                     |
| 1,261.0      | 0.35       | 34.76                | 1,255.9       | 2.4           | 5.2          | 0.82                | -0.82                | -9.60               | 0.0                    | 0.0                     |
| 1,343.0      | 1.10       | 94.00                | 1,337.9       | 2.6           | 6.2          | 1.18                | 0.91                 | 72.25               | 0.5                    | -0.1                    |
| 1,530.0      | 2.90       | 98.30                | 1,524.8       | 1.8           | 12.6         | 0.97                | 0.96                 | 2.30                | 3.1                    | -1.2                    |
| 1,718.0      | 1.60       | 78.30                | 1,712.7       | 1.6           | 19.9         | 0.80                | -0.69                | -10.64              | 5.8                    | 0.5                     |
| 1,908.0      | 1.70       | 92.70                | 1,902.6       | 2.0           | 25.3         | 0.22                | 0.05                 | 7.58                | 10.3                   | -0.5                    |
| 2,097.0      | 1.60       | 86.40                | 2,091.5       | 2.1           | 30.8         | 0.11                | -0.05                | -3.33               | 14.7                   | 1.2                     |
| 2,287.0      | 1.80       | 80.00                | 2,281.4       | 2.7           | 36.3         | 0.14                | 0.11                 | -3.37               | 18.6                   | 4.5                     |
| 2,477.0      | 1.70       | 108.00               | 2,471.3       | 2.4           | 42.0         | 0.45                | -0.05                | 14.74               | 22.7                   | -6.2                    |
| 2,666.0      | 1.50       | 79.30                | 2,660.3       | 2.0           | 47.1         | 0.43                | -0.11                | -15.19              | 27.6                   | 6.2                     |



Midland PVA

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| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #706H                      |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3465.0usft (H&P 462) |
| Site:     | Antietam 9 Fed Com          | MD Reference:                | KB = 25' @ 3465.0usft (H&P 462) |
| Well:     | #706H                       | North Reference:             | Grid                            |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature               |
| Design:   | OH                          | Database:                    | EDM 5000.14                     |

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| 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) |  |
| 2,856.0      | 3.30       | 96.10                | 2,850.1       | 1.9           | 54.9          | 1.01                | 0.95                 | 8.84                | 30.3                   | -2.1                    |  |
| 3,046.0      | 4.00       | 95.10                | 3,039.7       | 0.7           | 67.0          | 0.37                | 0.37                 | -0.53               | 28.1                   | -2.3                    |  |
| 3,236.0      | 4.40       | 91.00                | 3,229.2       | 0.0           | 80.9          | 0.26                | 0.21                 | -2.16               | 24.3                   | -0.7                    |  |
| 3,425.0      | 2.90       | 107.60               | 3,417.8       | -1.6          | 92.7          | 0.96                | -0.79                | 8.78                | 20.8                   | -8.2                    |  |
| 3,615.0      | 2.00       | 101.00               | 3,607.6       | -3.7          | 100.5         | 0.50                | -0.47                | -3.47               | 23.3                   | -8.0                    |  |
| 3,805.0      | 2.40       | 84.70                | 3,797.5       | -3.9          | 107.7         | 0.39                | 0.21                 | -8.58               | 27.4                   | -0.9                    |  |
| 3,995.0      | 2.40       | 79.90                | 3,987.3       | -2.9          | 115.6         | 0.11                | 0.00                 | -2.53               | 29.2                   | 3.1                     |  |
| 4,184.0      | 2.20       | 110.60               | 4,176.2       | -3.5          | 122.9         | 0.65                | -0.11                | 16.24               | 29.0                   | -13.5                   |  |
| 4,374.0      | 3.60       | 119.80               | 4,365.9       | -7.7          | 131.5         | 0.77                | 0.74                 | 4.84                | 25.6                   | -22.0                   |  |
| 4,564.0      | 2.10       | 108.30               | 4,555.7       | -11.8         | 140.0         | 0.84                | -0.79                | -6.05               | 29.7                   | -20.6                   |  |
| 4,754.0      | 1.50       | 100.00               | 4,745.6       | -13.3         | 145.7         | 0.34                | -0.32                | -4.37               | 36.2                   | -18.1                   |  |
| 4,928.0      | 1.30       | 107.00               | 4,919.6       | -14.3         | 149.9         | 0.15                | -0.11                | 4.02                | 39.8                   | -24.9                   |  |
| 5,022.0      | 1.20       | 98.80                | 5,013.5       | -14.7         | 151.8         | 0.22                | -0.11                | -8.72               | 47.4                   | -20.0                   |  |
| 5,211.0      | 4.90       | 90.00                | 5,202.2       | -15.0         | 161.9         | 1.97                | 1.96                 | -4.66               | 53.0                   | -12.4                   |  |
| 5,400.0      | 5.80       | 90.00                | 5,390.4       | -15.0         | 179.5         | 0.48                | 0.48                 | 0.00                | 48.5                   | -12.1                   |  |
| 5,590.0      | 5.00       | 89.10                | 5,579.6       | -14.9         | 197.4         | 0.42                | -0.42                | -0.47               | 44.0                   | -11.0                   |  |
| 5,779.0      | 7.10       | 87.40                | 5,767.5       | -14.2         | 217.3         | 1.12                | 1.11                 | -0.90               | 37.4                   | -9.0                    |  |
| 5,968.0      | 7.40       | 85.40                | 5,955.0       | -12.7         | 241.1         | 0.21                | 0.16                 | -1.08               | 26.9                   | -6.7                    |  |
| 6,158.0      | 6.30       | 84.30                | 6,143.6       | -10.7         | 263.7         | 0.58                | -0.58                | -0.58               | 17.4                   | -4.8                    |  |
| 6,348.0      | 6.10       | 82.30                | 6,332.5       | -8.3          | 284.0         | 0.15                | -0.11                | -1.05               | 10.0                   | -2.4                    |  |
| 6,537.0      | 6.10       | 79.50                | 6,520.4       | -5.2          | 303.9         | 0.16                | 0.00                 | -1.48               | 2.9                    | 0.3                     |  |
| 6,726.0      | 6.20       | 95.10                | 6,708.4       | -4.2          | 323.9         | 0.88                | 0.05                 | 8.25                | -4.0                   | 1.4                     |  |
| 6,916.0      | 3.50       | 101.70               | 6,897.7       | -6.3          | 339.8         | 1.45                | -1.42                | 3.47                | -6.8                   | 0.7                     |  |
| 7,105.0      | 3.30       | 100.20               | 7,086.3       | -8.5          | 350.8         | 0.12                | -0.11                | -0.79               | -5.0                   | -1.6                    |  |
| 7,294.0      | 2.80       | 105.00               | 7,275.1       | -10.6         | 360.6         | 0.30                | -0.26                | 2.54                | -2.4                   | -3.8                    |  |
| 7,484.0      | 2.10       | 103.30               | 7,464.9       | -12.6         | 368.5         | 0.37                | -0.37                | -0.89               | 2.5                    | -6.7                    |  |
| 7,674.0      | 1.70       | 114.30               | 7,654.8       | -14.6         | 374.4         | 0.28                | -0.21                | 5.79                | 6.1                    | -11.1                   |  |



Midland PVA

|                  |                             |                                     |                                 |
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| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Site:</b>     | Antietam 9 Fed Corn         | <b>MD Reference:</b>                | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Well:</b>     | #706H                       | <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 (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) |  |
| 7,863.0      | 1.20       | 134.70               | 7,843.7       | -17.1         | 378.4         | 0.38                | -0.26                | 10.79               | -0.9                   | -13.3                   |  |
| 8,052.0      | 0.60       | 134.90               | 8,032.7       | -19.2         | 380.5         | 0.32                | -0.32                | 0.11                | -4.0                   | -13.3                   |  |
| 8,242.0      | 0.30       | 146.00               | 8,222.7       | -20.3         | 381.5         | 0.16                | -0.16                | 5.84                | -7.9                   | -12.1                   |  |
| 8,431.0      | 0.20       | 147.20               | 8,411.7       | -21.0         | 382.0         | 0.05                | -0.05                | 0.63                | -9.0                   | -11.9                   |  |
| 8,620.0      | 0.40       | 151.10               | 8,600.7       | -21.9         | 382.4         | 0.11                | 0.11                 | 2.06                | -10.8                  | -11.3                   |  |
| 8,809.0      | 0.60       | 178.90               | 8,789.7       | -23.4         | 382.8         | 0.16                | 0.11                 | 14.71               | -16.3                  | -4.6                    |  |
| 8,999.0      | 0.70       | 182.80               | 8,979.7       | -25.6         | 382.7         | 0.06                | 0.05                 | 2.05                | -18.8                  | -3.4                    |  |
| 9,189.0      | 0.20       | 244.70               | 9,169.7       | -26.9         | 382.4         | 0.33                | -0.26                | 32.58               | -12.8                  | 16.0                    |  |
| 9,378.0      | 0.90       | 327.50               | 9,358.7       | -25.8         | 381.3         | 0.47                | 0.37                 | 43.81               | 12.7                   | 15.0                    |  |
| 9,568.0      | 2.30       | 346.10               | 9,548.6       | -20.8         | 379.6         | 0.78                | 0.74                 | 9.79                | 11.6                   | 10.6                    |  |
| 9,757.0      | 2.20       | 234.60               | 9,737.5       | -19.2         | 375.7         | 1.97                | -0.05                | -58.99              | -16.4                  | 3.4                     |  |
| 9,946.0      | 2.30       | 301.40               | 9,926.4       | -19.4         | 369.5         | 1.31                | 0.05                 | 35.34               | -8.6                   | 19.7                    |  |
| 10,134.0     | 2.40       | 6.30                 | 10,114.3      | -13.5         | 366.7         | 1.34                | 0.05                 | 34.52               | 8.7                    | 19.5                    |  |
| 10,323.0     | 2.20       | 47.40                | 10,303.1      | -7.1          | 369.8         | 0.86                | -0.11                | 21.75               | 12.8                   | 11.6                    |  |
| 10,512.0     | 0.90       | 19.70                | 10,492.0      | -3.2          | 373.0         | 0.77                | -0.69                | -14.66              | 1.2                    | 14.5                    |  |
| 10,701.0     | 0.40       | 162.40               | 10,681.0      | -2.5          | 373.7         | 0.66                | -0.26                | 75.50               | 8.4                    | -11.4                   |  |
| 10,890.0     | 0.40       | 235.90               | 10,870.0      | -3.5          | 373.4         | 0.25                | 0.00                 | 38.89               | -9.4                   | -10.6                   |  |
| 11,079.0     | 0.30       | 320.09               | 11,059.0      | -3.5          | 372.5         | 0.25                | -0.05                | 44.55               | -12.1                  | 8.9                     |  |
| 11,269.0     | 1.20       | 202.60               | 11,249.0      | -4.9          | 371.4         | 0.72                | 0.47                 | -61.84              | -4.1                   | -15.3                   |  |
| 11,458.0     | 1.70       | 224.00               | 11,438.0      | -8.8          | 368.7         | 0.39                | 0.26                 | 11.32               | -14.0                  | -12.0                   |  |
| 11,648.0     | 1.50       | 250.20               | 11,627.9      | -11.6         | 364.4         | 0.40                | -0.11                | 13.79               | -22.9                  | -3.3                    |  |
| 11,666.0     | 1.60       | 251.20               | 11,645.9      | -11.8         | 363.9         | 0.58                | 0.56                 | 5.56                | -23.5                  | -2.9                    |  |
| 11,777.0     | 2.00       | 260.40               | 11,756.8      | -12.6         | 360.6         | 0.44                | 0.36                 | 8.29                | -27.1                  | 1.1                     |  |
| 11,872.0     | 2.30       | 237.20               | 11,851.8      | -13.9         | 357.3         | 0.96                | 0.32                 | -24.42              | -28.8                  | -10.3                   |  |
| 11,919.0     | 11.80      | 181.90               | 11,898.4      | -19.3         | 356.4         | 22.68               | 20.21                | -117.66             | -11.5                  | -30.4                   |  |
| 11,967.0     | 21.50      | 178.40               | 11,944.3      | -33.0         | 356.8         | 20.45               | 20.21                | -11.46              | -15.8                  | -31.5                   |  |
| 12,014.0     | 26.20      | 173.80               | 11,987.3      | -51.9         | 358.4         | 10.24               | 10.00                | -5.53               | -23.0                  | -31.4                   |  |



Midland PVA

|                  |                             |                                     |                                 |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #708H                      |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Site:</b>     | Antietam 9 Fed Com          | <b>MD Reference:</b>                | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Well:</b>     | #708H                       | <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 (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) |  |
| 12,062.0                                                        | 31.20      | 172.40               | 12,029.4      | -74.8         | 361.2         | 10.51               | 10.42                | -2.92               | -30.1                  | -30.1                   |  |
| 12,109.0                                                        | 35.70      | 173.70               | 12,068.6      | -100.5        | 364.3         | 9.69                | 9.57                 | 2.77                | -37.4                  | -26.9                   |  |
| 12,157.0                                                        | 40.00      | 175.40               | 12,108.5      | -129.8        | 367.1         | 9.22                | 8.96                 | 3.54                | -43.3                  | -23.5                   |  |
| 12,204.0                                                        | 45.10      | 177.20               | 12,141.1      | -161.5        | 369.1         | 11.15               | 10.85                | 3.83                | -47.7                  | -20.6                   |  |
| 12,252.0                                                        | 46.80      | 177.80               | 12,174.5      | -196.0        | 370.6         | 3.65                | 3.54                 | 1.25                | -49.3                  | -18.8                   |  |
| 12,299.0                                                        | 50.80      | 178.60               | 12,205.4      | -231.3        | 371.7         | 8.61                | 8.51                 | 1.70                | -47.9                  | -17.4                   |  |
| 12,346.0                                                        | 58.20      | 178.90               | 12,232.7      | -269.5        | 372.6         | 15.75               | 15.74                | 0.64                | -45.9                  | -16.6                   |  |
| 12,367.0                                                        | 60.84      | 178.35               | 12,243.4      | -287.6        | 373.0         | 12.75               | 12.55                | -2.63               | -45.2                  | -16.5                   |  |
| FTP Crossing 12367.0' MD; 12243.4' TVD; -287.6'; 373.0'; 60.84' |            |                      |               |               |               |                     |                      |                     |                        |                         |  |
| 12,393.0                                                        | 64.10      | 177.70               | 12,255.4      | -310.7        | 373.8         | 12.75               | 12.56                | -2.49               | -44.1                  | -16.0                   |  |
| 12,441.0                                                        | 69.00      | 177.50               | 12,274.5      | -354.6        | 375.6         | 10.22               | 10.21                | -0.42               | -41.7                  | -14.3                   |  |
| 12,488.0                                                        | 73.30      | 178.60               | 12,289.6      | -399.1        | 377.2         | 9.41                | 9.15                 | 2.34                | -38.1                  | -12.8                   |  |
| 12,536.0                                                        | 77.50      | 180.30               | 12,301.7      | -445.5        | 377.6         | 9.40                | 8.75                 | 3.54                | -32.7                  | -12.5                   |  |
| 12,583.0                                                        | 81.30      | 181.60               | 12,310.4      | -491.7        | 376.8         | 8.53                | 8.09                 | 2.77                | -25.9                  | -13.6                   |  |
| 12,626.0                                                        | 85.00      | 181.40               | 12,315.5      | -534.4        | 375.7         | 8.62                | 8.60                 | -0.47               | -21.3                  | -15.0                   |  |
| 12,673.0                                                        | 87.50      | 181.20               | 12,318.6      | -581.3        | 374.6         | 5.34                | 5.32                 | -0.43               | -18.9                  | -16.3                   |  |
| 12,720.0                                                        | 88.30      | 180.60               | 12,320.3      | -628.2        | 373.9         | 2.13                | 1.70                 | -1.28               | -17.7                  | -17.4                   |  |
| 12,768.0                                                        | 88.20      | 178.80               | 12,321.8      | -676.2        | 374.2         | 3.75                | -0.21                | -3.75               | -16.9                  | -17.5                   |  |
| 12,815.0                                                        | 88.70      | 178.10               | 12,323.0      | -723.2        | 375.4         | 1.83                | 1.06                 | -1.49               | -16.2                  | -16.5                   |  |
| 12,863.0                                                        | 87.70      | 177.80               | 12,324.6      | -771.1        | 377.1         | 2.17                | -2.08                | -0.63               | -15.3                  | -15.2                   |  |
| 12,910.0                                                        | 87.20      | 177.10               | 12,326.6      | -818.0        | 379.2         | 1.83                | -1.06                | -1.49               | -13.8                  | -13.4                   |  |
| 12,957.0                                                        | 86.50      | 176.10               | 12,329.2      | -864.8        | 382.0         | 2.59                | -1.49                | -2.13               | -11.8                  | -10.9                   |  |
| 13,052.0                                                        | 87.00      | 176.30               | 12,334.6      | -959.5        | 388.3         | 0.57                | 0.53                 | 0.21                | -7.7                   | -5.3                    |  |
| 13,147.0                                                        | 86.90      | 175.70               | 12,339.7      | -1,054.1      | 394.9         | 0.64                | -0.11                | -0.63               | -3.9                   | 0.7                     |  |
| 13,227.0                                                        | 89.80      | 176.00               | 12,342.0      | -1,133.9      | 400.7         | 3.64                | 3.63                 | 0.38                | -2.6                   | 5.9                     |  |
| 13,242.0                                                        | 90.30      | 176.30               | 12,342.0      | -1,148.8      | 401.7         | 3.89                | 3.33                 | 2.00                | -2.8                   | 6.9                     |  |
| 13,337.0                                                        | 92.30      | 177.40               | 12,339.8      | -1,243.7      | 406.9         | 2.40                | 2.11                 | 1.16                | -6.1                   | 11.4                    |  |



Midland PVA

|                  |                             |                                     |                                 |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #706H                      |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Site:</b>     | Antietam 9 Fed Com          | <b>MD Reference:</b>                | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Well:</b>     | #706H                       | <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 (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Buld<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 13,432.0     | 91.20      | 176.70               | 12,336.9      | -1,338.5      | 411.8         | 1.37                | -1.16               | -0.74               | -10.3                  | 15.7                    |  |
| 13,512.0     | 91.50      | 178.90               | 12,335.0      | -1,418.4      | 414.9         | 2.77                | 0.38                | 2.75                | -13.2                  | 18.2                    |  |
| 13,527.0     | 91.50      | 179.60               | 12,334.6      | -1,433.4      | 415.1         | 4.67                | 0.00                | 4.67                | -13.8                  | 18.3                    |  |
| 13,622.0     | 88.00      | 180.60               | 12,335.0      | -1,528.4      | 414.9         | 3.83                | -3.68               | 1.05                | -14.6                  | 17.5                    |  |
| 13,716.0     | 87.20      | 180.30               | 12,339.0      | -1,622.3      | 414.2         | 0.91                | -0.85               | -0.32               | -11.8                  | 16.1                    |  |
| 13,811.0     | 90.50      | 181.10               | 12,340.9      | -1,717.3      | 413.0         | 3.57                | 3.47                | 0.84                | -11.2                  | 14.3                    |  |
| 13,906.0     | 88.50      | 179.30               | 12,341.7      | -1,812.2      | 412.7         | 2.83                | -2.11               | -1.89               | -11.6                  | 13.3                    |  |
| 14,001.0     | 90.10      | 180.00               | 12,342.9      | -1,907.2      | 413.3         | 1.84                | 1.68                | 0.74                | -11.6                  | 13.3                    |  |
| 14,096.0     | 84.30      | 177.40               | 12,347.5      | -2,002.0      | 415.4         | 6.69                | -6.11               | -2.74               | -8.2                   | 14.7                    |  |
| 14,160.0     | 85.50      | 178.00               | 12,353.2      | -2,065.7      | 418.0         | 2.09                | 1.88                | 0.94                | -3.4                   | 16.9                    |  |
| 14,190.0     | 87.30      | 178.80               | 12,355.1      | -2,095.7      | 418.8         | 6.56                | 6.00                | 2.67                | -1.8                   | 17.5                    |  |
| 14,285.0     | 88.70      | 179.90               | 12,358.4      | -2,190.6      | 419.9         | 1.87                | 1.47                | 1.16                | 0.3                    | 18.0                    |  |
| 14,380.0     | 89.50      | 179.30               | 12,359.9      | -2,285.6      | 420.5         | 1.05                | 0.84                | -0.63               | 0.9                    | 18.0                    |  |
| 14,475.0     | 90.90      | 179.20               | 12,359.6      | -2,380.6      | 421.8         | 1.48                | 1.47                | -0.11               | -0.3                   | 18.6                    |  |
| 14,570.0     | 91.10      | 180.20               | 12,357.9      | -2,475.5      | 422.3         | 1.07                | 0.21                | 1.05                | -2.9                   | 18.4                    |  |
| 14,665.0     | 90.10      | 180.70               | 12,356.9      | -2,570.5      | 421.5         | 1.18                | -1.05               | 0.53                | -4.8                   | 17.0                    |  |
| 14,760.0     | 89.70      | 180.90               | 12,357.1      | -2,665.5      | 420.2         | 0.47                | -0.42               | 0.21                | -5.5                   | 15.1                    |  |
| 14,854.0     | 87.60      | 179.20               | 12,359.3      | -2,759.5      | 420.1         | 2.87                | -2.23               | -1.81               | -4.2                   | 14.3                    |  |
| 14,915.0     | 91.60      | 181.80               | 12,359.7      | -2,820.5      | 419.6         | 7.82                | 6.56                | 4.26                | -4.4                   | 13.4                    |  |
| 14,949.0     | 93.50      | 182.80               | 12,358.2      | -2,854.4      | 418.2         | 6.31                | 5.59                | 2.94                | -6.2                   | 11.8                    |  |
| 15,044.0     | 89.60      | 181.40               | 12,355.6      | -2,949.3      | 414.8         | 4.36                | -4.11               | -1.47               | -9.6                   | 7.7                     |  |
| 15,070.0     | 90.90      | 183.90               | 12,355.5      | -2,975.3      | 413.6         | 10.84               | 5.00                | 9.62                | -10.0                  | 6.3                     |  |
| 15,139.0     | 89.80      | 181.80               | 12,355.1      | -3,044.2      | 410.1         | 3.44                | -1.59               | -3.04               | -11.1                  | 2.4                     |  |
| 15,234.0     | 88.20      | 180.90               | 12,356.8      | -3,139.1      | 407.9         | 1.93                | -1.68               | -0.95               | -10.3                  | -0.5                    |  |
| 15,329.0     | 88.40      | 180.60               | 12,359.6      | -3,234.1      | 406.6         | 0.38                | 0.21                | -0.32               | -8.4                   | -2.4                    |  |
| 15,354.0     | 91.60      | 183.70               | 12,359.6      | -3,259.0      | 405.7         | 17.82               | 12.80               | 12.40               | -8.6                   | -3.5                    |  |
| 15,424.0     | 88.00      | 182.00               | 12,359.8      | -3,328.9      | 402.2         | 5.69                | -5.14               | -2.43               | -9.0                   | -7.4                    |  |



Midland PVA

|           |                             |                              |                                 |
|-----------|-----------------------------|------------------------------|---------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #706H                      |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3465.0usft (H&P 462) |
| Site:     | Antietam 9 Fed Com          | MD Reference:                | KB = 25' @ 3465.0usft (H&P 462) |
| Well:     | #706H                       | North Reference:             | Grid                            |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature               |
| Design:   | OH                          | Database:                    | EDM 5000.14                     |

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Buflg<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 15,454.0     | 85.50      | 180.40               | 12,361.5      | -3,358.9      | 401.6         | 9.89                | -8.33                | -5.33               | -7.6                   | -8.3                    |  |
| 15,486.0     | 85.10      | 180.40               | 12,364.1      | -3,390.8      | 401.4         | 1.25                | -1.25                | 0.00                | -5.3                   | -8.7                    |  |
| 15,519.0     | 85.40      | 180.70               | 12,366.9      | -3,423.7      | 401.1         | 1.28                | 0.91                 | 0.91                | -2.9                   | -9.2                    |  |
| 15,614.0     | 86.30      | 179.00               | 12,373.7      | -3,518.4      | 401.3         | 2.02                | 0.95                 | -1.79               | 3.1                    | -9.6                    |  |
| 15,709.0     | 87.10      | 175.50               | 12,379.2      | -3,613.1      | 405.9         | 3.77                | 0.84                 | -3.68               | 7.7                    | -5.7                    |  |
| 15,804.0     | 89.00      | 175.50               | 12,382.4      | -3,707.8      | 413.3         | 2.00                | 2.00                 | 0.00                | 10.0                   | 1.1                     |  |
| 15,899.0     | 90.90      | 177.20               | 12,382.5      | -3,802.6      | 419.4         | 2.68                | 2.00                 | 1.79                | 9.2                    | 6.5                     |  |
| 15,994.0     | 89.70      | 177.10               | 12,382.0      | -3,897.5      | 424.1         | 1.27                | -1.26                | -0.11               | 7.8                    | 10.6                    |  |
| 16,088.0     | 90.80      | 178.80               | 12,381.6      | -3,991.4      | 427.4         | 2.15                | 1.17                 | 1.81                | 6.5                    | 13.3                    |  |
| 16,183.0     | 89.90      | 179.10               | 12,381.0      | -4,086.4      | 429.2         | 1.00                | -0.95                | 0.32                | 5.1                    | 14.4                    |  |
| 16,278.0     | 89.70      | 181.30               | 12,381.4      | -4,181.4      | 428.9         | 2.33                | -0.21                | 2.32                | 4.5                    | 13.4                    |  |
| 16,373.0     | 90.20      | 180.60               | 12,381.5      | -4,276.3      | 427.3         | 0.91                | 0.53                 | -0.74               | 3.7                    | 11.2                    |  |
| 16,467.0     | 87.10      | 178.50               | 12,383.7      | -4,370.3      | 428.0         | 3.98                | -3.30                | -2.23               | 5.0                    | 11.3                    |  |
| 16,561.0     | 87.90      | 180.10               | 12,387.8      | -4,464.2      | 429.2         | 1.90                | 0.85                 | 1.70                | 8.2                    | 11.8                    |  |
| 16,656.0     | 90.90      | 181.10               | 12,388.8      | -4,559.2      | 428.2         | 3.33                | 3.16                 | 1.05                | 8.3                    | 10.1                    |  |
| 16,751.0     | 90.20      | 181.00               | 12,387.9      | -4,654.2      | 426.4         | 0.74                | -0.74                | -0.11               | 6.5                    | 7.8                     |  |
| 16,846.0     | 88.30      | 179.50               | 12,389.1      | -4,749.1      | 426.0         | 2.55                | -2.00                | -1.58               | 6.9                    | 6.7                     |  |
| 16,940.0     | 89.80      | 179.50               | 12,390.7      | -4,843.1      | 426.8         | 1.60                | 1.60                 | 0.00                | 7.5                    | 6.9                     |  |
| 17,037.0     | 89.30      | 180.50               | 12,391.4      | -4,940.1      | 426.8         | 1.15                | -0.52                | 1.03                | 7.4                    | 6.2                     |  |
| 17,132.0     | 89.20      | 179.60               | 12,392.7      | -5,035.1      | 426.8         | 0.95                | -0.11                | -0.95               | 7.7                    | 5.5                     |  |
| 17,228.0     | 89.10      | 179.40               | 12,394.1      | -5,129.1      | 427.6         | 0.24                | -0.11                | -0.21               | 8.2                    | 5.7                     |  |
| 17,321.0     | 88.90      | 180.00               | 12,395.7      | -5,224.1      | 428.1         | 0.67                | -0.21                | 0.63                | 9.0                    | 5.5                     |  |
| 17,415.0     | 90.60      | 179.80               | 12,396.1      | -5,318.1      | 428.2         | 1.82                | 1.81                 | -0.21               | 8.5                    | 5.1                     |  |
| 17,510.0     | 89.80      | 177.80               | 12,395.8      | -5,413.1      | 430.2         | 2.27                | -0.84                | -2.10               | 7.3                    | 6.4                     |  |
| 17,605.0     | 90.70      | 176.70               | 12,395.4      | -5,508.0      | 434.8         | 1.50                | 0.95                 | -1.16               | 6.0                    | 10.3                    |  |
| 17,700.0     | 90.00      | 179.00               | 12,394.8      | -5,602.9      | 438.3         | 2.53                | -0.74                | 2.42                | 4.5                    | 13.2                    |  |
| 17,795.0     | 88.40      | 177.90               | 12,396.1      | -5,697.8      | 440.9         | 2.04                | -1.68                | -1.16               | 4.9                    | 15.2                    |  |



Midland PVA

|           |                             |                              |                                 |
|-----------|-----------------------------|------------------------------|---------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #706H                      |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3465.0usft (H&P 462) |
| Site:     | Antietam 9 Fed Com          | MD Reference:                | KB = 25' @ 3465.0usft (H&P 462) |
| Well:     | #706H                       | North Reference:             | Grid                            |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature               |
| Design:   | OH                          | Database:                    | EDM 5000.14                     |

| Survey                                                        |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
|---------------------------------------------------------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                                                  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 17,890.0                                                      | 91.10      | 178.70               | 12,396.5      | -5,792.8      | 443.7        | 2.98                | 2.84                 | 0.84                | 4.5                    | 17.3                    |  |
| 17,984.0                                                      | 89.20      | 179.00               | 12,396.3      | -5,886.8      | 445.6        | 2.05                | -2.02                | 0.32                | 3.8                    | 18.6                    |  |
| 18,079.0                                                      | 89.30      | 179.90               | 12,397.5      | -5,981.8      | 446.5        | 0.95                | 0.11                 | 0.95                | 4.6                    | 18.8                    |  |
| 18,174.0                                                      | 88.80      | 180.20               | 12,399.1      | -6,076.7      | 446.4        | 0.61                | -0.53                | 0.32                | 5.7                    | 18.1                    |  |
| 18,269.0                                                      | 91.90      | 180.40               | 12,398.5      | -6,171.7      | 445.9        | 3.27                | 3.26                 | 0.21                | 4.6                    | 17.0                    |  |
| 18,364.0                                                      | 90.70      | 179.90               | 12,396.4      | -6,266.7      | 445.7        | 1.37                | -1.26                | -0.53               | 2.0                    | 16.1                    |  |
| 18,459.0                                                      | 89.20      | 179.20               | 12,396.5      | -6,361.7      | 446.4        | 1.74                | -1.58                | -0.74               | 1.6                    | 16.2                    |  |
| 18,554.0                                                      | 89.90      | 178.30               | 12,397.2      | -6,456.7      | 448.5        | 1.20                | 0.74                 | -0.95               | 1.9                    | 17.6                    |  |
| 18,649.0                                                      | 92.10      | 180.90               | 12,395.5      | -6,551.6      | 449.2        | 3.58                | 2.32                 | 2.74                | -0.2                   | 17.6                    |  |
| 18,743.0                                                      | 89.90      | 179.10               | 12,393.9      | -6,645.6      | 449.2        | 3.02                | -2.34                | -1.91               | -2.3                   | 17.0                    |  |
| 18,837.0                                                      | 93.90      | 182.60               | 12,390.8      | -6,739.5      | 447.8        | 5.65                | 4.26                 | 3.72                | -5.9                   | 14.9                    |  |
| 18,932.0                                                      | 89.80      | 181.80               | 12,387.7      | -6,834.4      | 444.3        | 4.44                | -4.32                | -1.05               | -9.4                   | 10.8                    |  |
| 18,990.0                                                      | 89.70      | 181.40               | 12,388.0      | -6,892.4      | 442.8        | 0.39                | -0.17                | -0.34               | -9.4                   | 8.9                     |  |
| 19,028.0                                                      | 89.20      | 181.20               | 12,388.3      | -6,930.3      | 441.9        | 1.42                | -1.32                | -0.53               | -9.2                   | 7.8                     |  |
| 19,122.0                                                      | 88.90      | 180.70               | 12,389.9      | -7,024.3      | 440.4        | 0.62                | -0.32                | -0.53               | -8.1                   | 5.6                     |  |
| 19,217.0                                                      | 89.00      | 179.90               | 12,391.6      | -7,119.3      | 439.9        | 0.85                | 0.11                 | -0.84               | -6.8                   | 4.5                     |  |
| 19,311.0                                                      | 88.50      | 178.30               | 12,393.7      | -7,213.3      | 441.4        | 1.78                | -0.53                | -1.70               | -5.2                   | 5.3                     |  |
| 19,406.0                                                      | 93.50      | 181.80               | 12,392.0      | -7,308.2      | 441.3        | 6.42                | 5.26                 | 3.68                | -7.3                   | 4.6                     |  |
| 19,458.0                                                      | 93.10      | 180.70               | 12,389.0      | -7,360.1      | 440.1        | 2.25                | -0.77                | -2.12               | -10.6                  | 3.1                     |  |
| 19,501.0                                                      | 90.10      | 182.30               | 12,387.8      | -7,403.1      | 439.0        | 7.91                | -6.98                | 3.72                | -12.0                  | 1.7                     |  |
| 19,595.0                                                      | 91.50      | 184.20               | 12,386.5      | -7,496.9      | 433.7        | 2.51                | 1.49                 | 2.02                | -13.8                  | -4.3                    |  |
| 19,645.8                                                      | 91.27      | 183.00               | 12,385.3      | -7,547.6      | 430.5        | 2.40                | -0.45                | -2.36               | -15.2                  | -7.8                    |  |
| LTP Crossing 19645.8' MD; 12385.3' TVD; -7547.6' 430.5' 91.27 |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
| 19,684.0                                                      | 91.10      | 182.10               | 12,384.5      | -7,585.7      | 428.8        | 2.40                | -0.45                | -2.36               | -16.2                  | -9.8                    |  |
| Last MWD Survey (MD = 19684.0)                                |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
| 19,741.0                                                      | 91.10      | 182.10               | 12,383.4      | -7,642.7      | 426.7        | 0.00                | 0.00                 | 0.00                | -17.6                  | -12.3                   |  |
| Projection to Bit (MD = 19741.0)                              |            |                      |               |               |              |                     |                      |                     |                        |                         |  |



Midland PVA

|                  |                             |                                     |                                 |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #708H                      |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Site:</b>     | Antietam 9 Fed Corn         | <b>MD Reference:</b>                | KB = 25' @ 3465.0usft (H&P 462) |
| <b>Well:</b>     | #708H                       | <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                     |

| Design Annotations          |                             |                   |                |                                                                 |
|-----------------------------|-----------------------------|-------------------|----------------|-----------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                                                         |
|                             |                             | +N-S<br>(usft)    | +E-W<br>(usft) |                                                                 |
| 12,367.0                    | 12,243.4                    | -287.6            | 373.0          | FTP Crossing 12367.0' MD; 12243.4' TVD; -287.6'; 373.0'; 60.84  |
| 19,645.8                    | 12,385.3                    | -7,547.6          | 430.5          | LTP Crossing 19645.8' MD; 12385.3' TVD; -7547.6'; 430.5'; 91.27 |
| 19,684.0                    | 12,384.5                    | -7,585.7          | 428.8          | Last MWD Survey (MD = 19684.0)                                  |
| 19,741.0                    | 12,383.4                    | -7,642.7          | 426.7          | Projection to Bit (MD = 19741.0)                                |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|



Lea County, NM (NAD 83 NME)

Antietam 9 Fed Com #706H

H&P 462

Plan #1

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

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

WELL DETAILS: #706H

KB = 25' @ 3465.0usft (H&P 462) 3440.0  
Northing 419936.00 Easting 774281.00 Latitude 32° 5' 8.075 N Longitude 103° 34' 50.293 W

#### SECTION DETAILS

| MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W | Dleg  | TFace  | Vsect  | Target                           |
|---------|-------|--------|---------|---------|-------|-------|--------|--------|----------------------------------|
| 1261.0  | 0.35  | 34.76  | 1255.9  | 2.4     | 5.2   | 0.00  | 0.00   | -2.1   |                                  |
| 1402.2  | 3.00  | 91.47  | 1397.0  | 2.7     | 9.2   | 2.00  | 62.65  | -2.2   |                                  |
| 4809.8  | 3.00  | 91.47  | 4800.0  | -1.9    | 187.5 | 0.00  | 0.00   | 12.6   |                                  |
| 4858.9  | 3.98  | 91.47  | 4849.0  | -2.0    | 190.4 | 2.00  | -0.01  | 12.9   |                                  |
| 7592.6  | 3.98  | 91.47  | 7576.1  | -6.8    | 380.2 | 0.00  | 0.00   | 28.6   |                                  |
| 7791.6  | 0.00  | 0.00   | 7775.0  | -7.0    | 387.1 | 2.00  | 180.00 | 29.2   |                                  |
| 11875.3 | 0.00  | 0.00   | 11858.7 | -7.0    | 387.1 | 0.00  | 0.00   | 29.2   |                                  |
| 12619.2 | 89.26 | 179.61 | 12336.1 | -478.3  | 390.3 | 12.00 | 179.61 | 499.9  | TGT #1 (Antietam 9 Fed Com #706) |
| 14321.7 | 89.26 | 179.61 | 12358.0 | -2180.6 | 401.9 | 0.00  | 0.00   | 2200.0 |                                  |
| 14331.5 | 89.46 | 179.61 | 12358.1 | -2190.4 | 401.9 | 2.00  | 0.00   | 2209.8 | TGT #3 (Antietam 9 Fed Com #706) |
| 17926.4 | 89.46 | 179.61 | 12392.0 | -5785.1 | 426.4 | 0.00  | 0.00   | 5800.0 |                                  |
| 17939.6 | 89.72 | 179.61 | 12392.1 | -5798.3 | 426.4 | 2.00  | 0.00   | 5813.2 |                                  |
| 19788.4 | 89.72 | 179.61 | 12401.0 | -7647.0 | 439.0 | 0.00  | 0.00   | 7659.6 | PBHL (Antietam 9 Fed Com #706)   |

#### CASING DETAILS

No casing data is available

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

| Name                             | TVD     | +N/-S   | +E/-W | Northing  | Easting   |
|----------------------------------|---------|---------|-------|-----------|-----------|
| TGT #1 (Antietam 9 Fed Com #706) | 12358.0 | -2180.6 | 401.9 | 417755.40 | 774582.87 |
| TGT #3 (Antietam 9 Fed Com #706) | 12392.0 | -5785.1 | 426.4 | 414150.00 | 774707.35 |
| PBHL (Antietam 9 Fed Com #706)   | 12401.0 | -7647.0 | 439.0 | 412289.00 | 774720.00 |
| FTP (Antietam 9 Fed Com #706)    | 12335.0 | -287.0  | 385.0 | 419649.00 | 774670.00 |
| TGT #2 (Antietam 9 Fed Com #706) | 12375.0 | -3892.7 | 413.4 | 416053.30 | 774594.43 |

