



30-015-39723

## **EOG Resources, Inc.**

Eddy County  
Elk Wallow 11 State  
#8H  
OH

Design: OH

## **PathfinderX & Y Report**

09 April, 2012

**PATHFINDER<sup>®</sup>**  
A Schlumberger Company

|           |                     |                              |                                   |
|-----------|---------------------|------------------------------|-----------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #8H                          |
| Project:  | Eddy County         | TVD Reference:               | KB = 25 @ 3081.4usft (Cactus 139) |
| Site:     | Elk Wallow 11 State | MD Reference:                | KB = 25 @ 3081.4usft (Cactus 139) |
| Well:     | #8H                 | North Reference:             | Grid                              |
| Wellbore: | OH                  | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | OH                  | Database:                    | EDM 5000 1 Single User Db         |

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

|                       |                     |              |                  |                   |          |
|-----------------------|---------------------|--------------|------------------|-------------------|----------|
| Site                  | Elk Wallow 11 State |              |                  |                   |          |
| Site Position:        |                     | Northing:    | 418,830.100 usft | Latitude:         | 32.151   |
| From:                 | Map                 | Easting:     | 615,001.000 usft | Longitude:        | -103.962 |
| Position Uncertainty: | 0.0 usft            | Slot Radius: | 13-3/16 "        | Grid Convergence: | 0.20 °   |

|                      |          |          |                     |                  |               |              |
|----------------------|----------|----------|---------------------|------------------|---------------|--------------|
| Well                 |          | #8H      |                     |                  |               |              |
| Well Position        | +N/-S    | 0.0 usft | Northing:           | 418,993.800 usft | Latitude:     | 32.151       |
|                      | +E/-W    | 0.0 usft | Easting:            | 617,195.900 usft | Longitude:    | -103.955     |
| Position Uncertainty | 0.0 usft |          | Wellhead Elevation: | usft             | Ground Level: | 3,056.4 usft |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF200510 | 3/1/2012    | 7.66            | 60.06         | 48,502              |

|                   |                            |                 |                 |                  |     |
|-------------------|----------------------------|-----------------|-----------------|------------------|-----|
| Design            | OH                         |                 |                 |                  |     |
| Audit Notes:      |                            |                 |                 |                  |     |
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth:    | 0.0 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |     |
|                   | 0.0                        | 0.0             | 0.0             | 176.60           |     |

|                |              |                   |           |                |  |
|----------------|--------------|-------------------|-----------|----------------|--|
| Survey Program |              | Date              | 4/9/2012  |                |  |
| From<br>(usft) | To<br>(usft) | Survey (Wellbore) | Tool Name | Description    |  |
| 790.0          | 12,189.0     | MWD #1 (OH)       | MWD       | MWD - Standard |  |

Company: EOG Resources, Inc.  
Project: Eddy County  
Site: Elk Wallow 11 State  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well #8H  
KB = 25 @ 3081.4usft (Cactus 139)  
KB = 25 @ 3081.4usft (Cactus 139)  
Gnd  
Minimum Curvature  
EDM 5000.1 Single User Db

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 0.0          | 0.00       | 0.00                 | 0.0           | -3,081.4        | 0.0           | 0.0           | 0.0              | 0.00                | 418,993.80         | 617,195.90        |  |
| 790.0        | 0.53       | 284.05               | 790.0         | -2,291.4        | 0.9           | -3.5          | -1.1             | 0.07                | 418,994.69         | 617,192.36        |  |
| 974.0        | 0.70       | 322.11               | 974.0         | -2,107.4        | 2.0           | -5.1          | -2.3             | 0.23                | 418,995.78         | 617,190.84        |  |
| 1,158.0      | 0.79       | 325.27               | 1,158.0       | -1,923.4        | 3.9           | -6.5          | -4.3             | 0.05                | 418,997.71         | 617,189.43        |  |
| 1,344.0      | 0.35       | 223.94               | 1,344.0       | -1,737.4        | 4.6           | -7.6          | -5.0             | 0.50                | 418,998.35         | 617,188.30        |  |
| 1,528.0      | 1.85       | 158.37               | 1,527.9       | -1,553.5        | 1.4           | -6.9          | -1.8             | 0.94                | 418,995.19         | 617,189.01        |  |
| 1,714.0      | 1.14       | 123.12               | 1,713.9       | -1,367.5        | -2.4          | -4.2          | 2.2              | 0.61                | 418,991.39         | 617,191.66        |  |
| 1,903.0      | 1.14       | 85.86                | 1,902.8       | -1,178.6        | -3.3          | -0.8          | 3.3              | 0.39                | 418,990.50         | 617,195.11        |  |
| 2,092.0      | 1.41       | 76.89                | 2,091.8       | -989.6          | -2.6          | 3.4           | 2.8              | 0.18                | 418,991.16         | 617,199.25        |  |
| 2,279.0      | 0.44       | 285.55               | 2,278.8       | -802.6          | -1.9          | 4.9           | 2.2              | 0.97                | 418,991.87         | 617,200.80        |  |
| 2,467.0      | 0.35       | 220.95               | 2,466.8       | -614.6          | -2.2          | 3.8           | 2.4              | 0.23                | 418,991.63         | 617,199.73        |  |
| 2,655.0      | 1.85       | 118.55               | 2,654.7       | -426.7          | -4.1          | 6.1           | 4.4              | 1.04                | 418,989.75         | 617,202.02        |  |
| 2,842.0      | 1.76       | 136.40               | 2,841.6       | -239.8          | -7.6          | 10.8          | 8.2              | 0.30                | 418,986.23         | 617,206.65        |  |
| 3,030.0      | 1.06       | 119.70               | 3,029.6       | -51.8           | -10.5         | 14.3          | 11.4             | 0.43                | 418,983.27         | 617,210.15        |  |
| 3,218.0      | 0.35       | 97.72                | 3,217.6       | 136.2           | -11.5         | 16.3          | 12.4             | 0.40                | 418,982.34         | 617,212.23        |  |
| 3,407.0      | 0.35       | 101.33               | 3,406.6       | 325.2           | -11.7         | 17.5          | 12.7             | 0.01                | 418,982.14         | 617,213.37        |  |
| 3,594.0      | 0.26       | 86.56                | 3,593.6       | 512.2           | -11.7         | 18.5          | 12.8             | 0.06                | 418,982.06         | 617,214.35        |  |
| 3,782.0      | 0.26       | 82.78                | 3,781.6       | 700.2           | -11.7         | 19.3          | 12.8             | 0.01                | 418,982.14         | 617,215.20        |  |
| 3,969.0      | 0.26       | 92.36                | 3,968.6       | 887.2           | -11.6         | 20.1          | 12.8             | 0.02                | 418,982.17         | 617,216.05        |  |
| 4,155.0      | 0.26       | 95.70                | 4,154.6       | 1,073.2         | -11.7         | 21.0          | 12.9             | 0.01                | 418,982.11         | 617,216.89        |  |
| 4,344.0      | 0.18       | 95.97                | 4,343.5       | 1,262.1         | -11.8         | 21.7          | 13.0             | 0.04                | 418,982.04         | 617,217.61        |  |
| 4,533.0      | 0.18       | 125.85               | 4,532.5       | 1,451.1         | -12.0         | 22.2          | 13.3             | 0.05                | 418,981.84         | 617,218.15        |  |
| 4,663.0      | 0.44       | 81.90                | 4,662.5       | 1,581.1         | -12.0         | 22.9          | 13.4             | 0.26                | 418,981.79         | 617,218.81        |  |
| 4,795.0      | 0.35       | 282.73               | 4,794.5       | 1,713.1         | -11.9         | 23.0          | 13.2             | 0.59                | 418,981.95         | 617,218.92        |  |
| 4,983.0      | 0.44       | 270.96               | 4,982.5       | 1,901.1         | -11.7         | 21.7          | 13.0             | 0.06                | 418,982.08         | 617,217.63        |  |
| 5,171.0      | 0.26       | 195.81               | 5,170.5       | 2,089.1         | -12.1         | 20.9          | 13.3             | 0.24                | 418,981.69         | 617,216.80        |  |
| 5,359.0      | 0.35       | 203.81               | 5,358.5       | 2,277.1         | -13.0         | 20.5          | 14.2             | 0.05                | 418,980.75         | 617,216.45        |  |

|           |                     |                              |                                   |
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| Site:     | Elk Wallow 11 State | MD Reference:                | KB = 25 @ 3081.4usft (Cactus 139) |
| Well:     | #8H                 | North Reference:             | Grid:                             |
| Wellbore: | OH                  | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | OH                  | Database:                    | EDM 5000 1 Single User.Db         |

| MD<br>(usft)                                  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|-----------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 5,547.0                                       | 0.79       | 211.45               | 5,546.5       | 2,465.1         | -14.7         | 19.6          | 15.8             | 0.24                | 418,979.12         | 617,215.54        |
| 5,735.0                                       | 0.97       | 188.34               | 5,734.5       | 2,653.1         | -17.4         | 18.7          | 18.4             | 0.21                | 418,976.44         | 617,214.63        |
| 5,924.0                                       | 1.06       | 295.57               | 5,923.5       | 2,842.1         | -18.2         | 16.9          | 19.2             | 0.87                | 418,975.61         | 617,212.82        |
| 6,113.0                                       | 0.26       | 288.97               | 6,112.5       | 3,031.1         | -17.3         | 14.9          | 18.2             | 0.42                | 418,976.51         | 617,210.84        |
| 6,302.0                                       | 0.26       | 280.10               | 6,301.5       | 3,220.1         | -17.1         | 14.1          | 17.9             | 0.02                | 418,976.72         | 617,210.01        |
| 6,491.0                                       | 1.49       | 19.50                | 6,490.5       | 3,409.1         | -14.7         | 14.5          | 15.5             | 0.82                | 418,979.11         | 617,210.41        |
| 6,679.0                                       | 1.41       | 213.91               | 6,678.4       | 3,597.0         | -14.3         | 14.0          | 15.1             | 1.53                | 418,979.50         | 617,209.94        |
| 6,868.0                                       | 0.97       | 226.83               | 6,867.4       | 3,786.0         | -17.3         | 11.6          | 18.0             | 0.27                | 418,976.47         | 617,207.47        |
| 7,057.0                                       | 1.14       | 248.98               | 7,056.4       | 3,975.0         | -19.1         | 8.7           | 19.6             | 0.23                | 418,974.70         | 617,204.55        |
| 7,185.0                                       | 2.46       | 223.23               | 7,184.3       | 4,102.9         | -21.6         | 5.6           | 21.8             | 1.18                | 418,972.24         | 617,201.48        |
| 7,217.0                                       | 6.33       | 190.89               | 7,216.2       | 4,134.8         | -23.8         | 4.8           | 24.0             | 13.91               | 418,970.01         | 617,200.68        |
| KOP - 7217.0 MD, 7216.2 TVD, -20.8° N, 7.3° E |            |                      |               |                 |               |               |                  |                     |                    |                   |
| 7,248.0                                       | 11.26      | 182.54               | 7,246.8       | 4,165.4         | -28.5         | 4.3           | 28.7             | 16.39               | 418,965.31         | 617,200.22        |
| 7,280.0                                       | 16.18      | 179.02               | 7,277.9       | 4,196.5         | -36.1         | 4.3           | 36.3             | 15.59               | 418,957.72         | 617,200.16        |
| 7,310.0                                       | 20.14      | 178.23               | 7,306.4       | 4,225.0         | -45.4         | 4.5           | 45.6             | 13.23               | 418,948.38         | 617,200.39        |
| 7,342.0                                       | 22.60      | 178.06               | 7,336.2       | 4,254.8         | -57.1         | 4.9           | 57.3             | 7.69                | 418,936.72         | 617,200.77        |
| 7,373.0                                       | 25.06      | 177.27               | 7,364.6       | 4,283.2         | -69.6         | 5.4           | 69.8             | 8.00                | 418,924.21         | 617,201.28        |
| 7,404.0                                       | 28.14      | 176.12               | 7,392.3       | 4,310.9         | -83.4         | 6.2           | 83.7             | 10.07               | 418,910.36         | 617,202.09        |
| 7,435.0                                       | 32.01      | 175.15               | 7,419.1       | 4,337.7         | -98.9         | 7.4           | 99.2             | 12.58               | 418,894.87         | 617,203.28        |
| 7,467.0                                       | 36.05      | 174.45               | 7,445.6       | 4,364.2         | -116.8        | 9.0           | 117.1            | 12.68               | 418,877.04         | 617,204.91        |
| 7,498.0                                       | 38.87      | 174.28               | 7,470.2       | 4,388.8         | -135.5        | 10.9          | 135.9            | 9.10                | 418,858.28         | 617,206.76        |
| 7,529.0                                       | 41.15      | 174.89               | 7,494.0       | 4,412.6         | -155.4        | 12.7          | 155.8            | 7.46                | 418,838.44         | 617,208.64        |
| 7,560.0                                       | 43.97      | 176.21               | 7,516.8       | 4,435.4         | -176.3        | 14.4          | 176.8            | 9.54                | 418,817.54         | 617,210.26        |
| 7,592.0                                       | 48.36      | 178.58               | 7,538.9       | 4,457.5         | -199.3        | 15.4          | 199.9            | 14.72               | 418,794.49         | 617,211.29        |
| 7,624.0                                       | 52.94      | 179.90               | 7,559.2       | 4,477.8         | -224.0        | 15.7          | 224.6            | 14.66               | 418,769.75         | 617,211.61        |
| 7,655.0                                       | 56.72      | 179.81               | 7,577.1       | 4,495.7         | -249.4        | 15.8          | 249.9            | 12.20               | 418,744.41         | 617,211.67        |
| 7,687.0                                       | 59.44      | 179.55               | 7,594.0       | 4,512.6         | -276.5        | 15.9          | 277.0            | 8.53                | 418,717.26         | 617,211.82        |

|           |                     |                              |                                   |
|-----------|---------------------|------------------------------|-----------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #8H                          |
| Project:  | Eddy County         | TVD Reference:               | KB = 25 @ 3081.4usft (Cactus 139) |
| Site:     | Elk Wallow 11 State | MD Reference:                | KB = 25 @ 3081.4usft (Cactus 139) |
| Well:     | #8H                 | North Reference:             | Gnd                               |
| Wellbore: | OH                  | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | OH                  | Database:                    | EDM 5000.1 Single User Db         |

| Survey                                       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|----------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)                                 | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 7,718.0                                      | 62.78      | 178.67               | 7,609.0       | 4,527.6         | -303.7        | 16.3          | 304.1            | 11.06               | 418,690.12         | 617,212.25        |  |
| 7,750.0                                      | 67.44      | 177.53               | 7,622.4       | 4,541.0         | -332.7        | 17.3          | 333.1            | 14.92               | 418,661.12         | 617,213.22        |  |
| 7,781.0                                      | 72.11      | 177.00               | 7,633.2       | 4,551.8         | -361.7        | 18.7          | 362.2            | 15.15               | 418,632.07         | 617,214.61        |  |
| 7,813.0                                      | 75.01      | 177.00               | 7,642.2       | 4,560.8         | -392.4        | 20.3          | 392.9            | 9.06                | 418,601.42         | 617,216.21        |  |
| 7,844.0                                      | 77.38      | 176.65               | 7,649.6       | 4,568.2         | -422.4        | 22.0          | 423.0            | 7.72                | 418,571.37         | 617,217.88        |  |
| 7,875.0                                      | 80.28      | 176.39               | 7,655.6       | 4,574.2         | -452.8        | 23.8          | 453.4            | 9.39                | 418,541.02         | 617,219.73        |  |
| 7,907.0                                      | 83.62      | 176.56               | 7,660.1       | 4,578.7         | -484.4        | 25.8          | 485.1            | 10.45               | 418,509.40         | 617,221.67        |  |
| 7,938.0                                      | 86.79      | 176.65               | 7,662.7       | 4,581.3         | -515.2        | 27.6          | 516.0            | 10.23               | 418,478.56         | 617,223.50        |  |
| 7,967.0                                      | 88.99      | 176.03               | 7,663.7       | 4,582.3         | -544.2        | 29.5          | 544.9            | 7.88                | 418,449.64         | 617,225.35        |  |
| LP - 7967.0 MD, 7663.7 TVD, -541.1 N, 32.0 E |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
| 7,999.0                                      | 91.10      | 176.48               | 7,663.7       | 4,582.3         | -576.1        | 31.5          | 576.9            | 6.74                | 418,417.71         | 617,227.44        |  |
| 8,061.0                                      | 92.51      | 175.96               | 7,661.8       | 4,580.4         | -637.9        | 35.6          | 638.9            | 2.42                | 418,355.88         | 617,231.53        |  |
| 8,156.0                                      | 92.77      | 176.18               | 7,657.4       | 4,576.0         | -732.6        | 42.1          | 733.8            | 0.36                | 418,261.20         | 617,238.03        |  |
| 8,251.0                                      | 92.51      | 176.97               | 7,653.0       | 4,571.6         | -827.3        | 47.8          | 828.7            | 0.87                | 418,166.48         | 617,243.70        |  |
| 8,345.0                                      | 90.31      | 177.87               | 7,650.7       | 4,569.3         | -921.2        | 52.0          | 922.7            | 2.53                | 418,072.61         | 617,247.93        |  |
| 8,439.0                                      | 88.81      | 178.84               | 7,651.4       | 4,570.0         | -1,015.1      | 54.7          | 1,016.6          | 1.90                | 417,978.65         | 617,250.63        |  |
| 8,534.0                                      | 89.52      | 178.25               | 7,652.8       | 4,571.4         | -1,110.1      | 57.1          | 1,111.5          | 0.97                | 417,883.69         | 617,253.04        |  |
| 8,628.0                                      | 89.87      | 178.67               | 7,653.3       | 4,571.9         | -1,204.1      | 59.7          | 1,205.5          | 0.58                | 417,789.73         | 617,255.57        |  |
| 8,723.0                                      | 90.66      | 179.74               | 7,652.9       | 4,571.5         | -1,299.1      | 61.0          | 1,300.4          | 1.40                | 417,694.74         | 617,256.89        |  |
| 8,818.0                                      | 89.52      | 180.16               | 7,652.7       | 4,571.3         | -1,394.1      | 61.1          | 1,395.2          | 1.28                | 417,599.74         | 617,256.97        |  |
| 8,912.0                                      | 87.67      | 179.21               | 7,655.0       | 4,573.6         | -1,488.0      | 61.6          | 1,489.1          | 2.21                | 417,505.78         | 617,257.49        |  |
| 9,005.0                                      | 88.20      | 179.28               | 7,658.4       | 4,577.0         | -1,581.0      | 62.8          | 1,581.9          | 0.57                | 417,412.85         | 617,258.71        |  |
| 9,101.0                                      | 89.08      | 180.22               | 7,660.7       | 4,579.3         | -1,676.9      | 63.2          | 1,677.7          | 1.34                | 417,316.88         | 617,259.13        |  |
| 9,195.0                                      | 91.19      | 180.72               | 7,660.4       | 4,579.0         | -1,770.9      | 62.5          | 1,771.5          | 2.31                | 417,222.89         | 617,258.36        |  |
| 9,290.0                                      | 91.89      | 180.52               | 7,657.9       | 4,576.5         | -1,865.9      | 61.4          | 1,866.2          | 0.77                | 417,127.93         | 617,257.33        |  |
| 9,383.0                                      | 89.96      | 178.74               | 7,656.4       | 4,575.0         | -1,958.9      | 62.0          | 1,959.1          | 2.82                | 417,034.95         | 617,257.93        |  |
| 9,478.0                                      | 89.60      | 178.18               | 7,656.7       | 4,575.3         | -2,053.8      | 64.6          | 2,054.0          | 0.70                | 416,939.98         | 617,260.48        |  |

Company: EOG Resources, Inc.  
Project: Eddy County  
Site: Elk Wallow, 11 State  
Well: #8H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference: KB = 25 @ 3081.4usft (Cactus 139)  
MD Reference: KB = 25 @ 3081.4usft (Cactus 139)  
North Reference: Gnd  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000 1 Single User Db

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 9,572.0      | 89.78      | 177.84               | 7,657.3       | 4,575.9         | -2,147.8      | 67.8          | 2,148.0          | 0.41                | 416,846.04         | 617,263.75        |  |
| 9,667.0      | 87.85      | 178.63               | 7,659.2       | 4,577.8         | -2,242.7      | 70.8          | 2,242.9          | 2.20                | 416,751.11         | 617,266.67        |  |
| 9,761.0      | 88.02      | 177.59               | 7,662.6       | 4,581.2         | -2,336.6      | 73.9          | 2,336.8          | 1.12                | 416,657.23         | 617,269.77        |  |
| 9,855.0      | 89.34      | 177.58               | 7,664.8       | 4,583.4         | -2,430.5      | 77.8          | 2,430.8          | 1.40                | 416,563.34         | 617,273.73        |  |
| 9,950.0      | 90.48      | 177.35               | 7,664.9       | 4,583.5         | -2,525.4      | 82.0          | 2,525.8          | 1.22                | 416,468.43         | 617,277.93        |  |
| 10,043.0     | 91.54      | 177.57               | 7,663.3       | 4,581.9         | -2,618.3      | 86.2          | 2,618.8          | 1.16                | 416,375.54         | 617,282.05        |  |
| 10,137.0     | 93.21      | 177.62               | 7,659.4       | 4,578.0         | -2,712.1      | 90.1          | 2,712.7          | 1.78                | 416,281.71         | 617,285.99        |  |
| 10,231.0     | 92.42      | 176.91               | 7,654.8       | 4,573.4         | -2,805.9      | 94.6          | 2,806.5          | 1.13                | 416,187.93         | 617,290.47        |  |
| 10,325.0     | 90.92      | 177.43               | 7,652.0       | 4,570.6         | -2,899.7      | 99.2          | 2,900.5          | 1.69                | 416,094.08         | 617,295.11        |  |
| 10,420.0     | 89.43      | 178.13               | 7,651.7       | 4,570.3         | -2,994.6      | 102.9         | 2,995.5          | 1.73                | 415,999.16         | 617,298.79        |  |
| 10,515.0     | 90.92      | 177.60               | 7,651.5       | 4,570.1         | -3,089.6      | 106.4         | 3,090.4          | 1.66                | 415,904.23         | 617,302.33        |  |
| 10,609.0     | 89.34      | 178.03               | 7,651.2       | 4,569.8         | -3,183.5      | 110.0         | 3,184.4          | 1.74                | 415,810.30         | 617,305.92        |  |
| 10,702.0     | 90.22      | 177.89               | 7,651.6       | 4,570.2         | -3,276.4      | 113.3         | 3,277.4          | 0.96                | 415,717.36         | 617,309.23        |  |
| 10,796.0     | 90.75      | 177.62               | 7,650.8       | 4,569.4         | -3,370.4      | 117.0         | 3,371.4          | 0.63                | 415,623.44         | 617,312.91        |  |
| 10,890.0     | 92.24      | 177.65               | 7,648.3       | 4,566.9         | -3,464.2      | 120.9         | 3,465.3          | 1.59                | 415,529.55         | 617,316.79        |  |
| 10,984.0     | 90.57      | 177.79               | 7,646.0       | 4,564.6         | -3,558.1      | 124.6         | 3,559.3          | 1.78                | 415,435.66         | 617,320.52        |  |
| 11,078.0     | 89.52      | 177.64               | 7,646.0       | 4,564.6         | -3,652.1      | 128.4         | 3,653.3          | 1.13                | 415,341.73         | 617,324.27        |  |
| 11,172.0     | 89.60      | 178.65               | 7,646.7       | 4,565.3         | -3,746.0      | 131.4         | 3,747.2          | 1.08                | 415,247.79         | 617,327.31        |  |
| 11,265.0     | 91.71      | 179.49               | 7,645.6       | 4,564.2         | -3,839.0      | 132.9         | 3,840.1          | 2.44                | 415,154.81         | 617,328.82        |  |
| 11,360.0     | 93.91      | 179.28               | 7,641.0       | 4,559.6         | -3,933.9      | 133.9         | 3,934.9          | 2.33                | 415,059.94         | 617,329.84        |  |
| 11,455.0     | 91.89      | 179.20               | 7,636.2       | 4,554.8         | -4,028.7      | 135.2         | 4,029.7          | 2.13                | 414,965.07         | 617,331.10        |  |
| 11,548.0     | 93.21      | 180.05               | 7,632.0       | 4,550.6         | -4,121.6      | 135.8         | 4,122.4          | 1.69                | 414,872.17         | 617,331.71        |  |
| 11,644.0     | 90.66      | 179.61               | 7,628.8       | 4,547.4         | -4,217.6      | 136.1         | 4,218.2          | 2.70                | 414,776.23         | 617,331.99        |  |
| 11,738.0     | 88.29      | 179.92               | 7,629.6       | 4,548.2         | -4,311.6      | 136.5         | 4,312.1          | 2.54                | 414,682.24         | 617,332.38        |  |
| 11,830.0     | 85.12      | 181.32               | 7,634.9       | 4,553.5         | -4,403.4      | 135.5         | 4,403.7          | 3.77                | 414,590.42         | 617,331.39        |  |
| 11,925.0     | 84.94      | 181.56               | 7,643.2       | 4,561.8         | -4,498.0      | 133.1         | 4,498.0          | 0.32                | 414,495.80         | 617,329.01        |  |
| 12,019.0     | 86.17      | 181.83               | 7,650.5       | 4,569.1         | -4,591.7      | 130.3         | 4,591.3          | 1.34                | 414,402.13         | 617,326.24        |  |

|           |                     |                              |                                   |
|-----------|---------------------|------------------------------|-----------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #8H                          |
| Project:  | Eddy County         | TVD Reference:               | KB = 25 @ 3081.4usft (Cactus 139) |
| Site:     | Elk Wallow 11 State | MD Reference:                | KB = 25 @ 3081.4usft (Cactus 139) |
| Well:     | #8H                 | North Reference:             | Grid                              |
| Wellbore: | OH                  | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | OH                  | Database:                    | EDM 5000.1 Single User Db         |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 12,113.0     | 89.25      | 181.97               | 7,654.2       | 4,572.8         | -4,685.5      | 127.2         | 4,684.8          | 3.28                | 414,308.27         | 617,323.12        |
| 12,137.0     | 89.60      | 181.96               | 7,654.4       | 4,573.0         | -4,709.5      | 126.4         | 4,708.7          | 1.46                | 414,284.28         | 617,322.30        |
| 12,189.0     | 89.60      | 181.96               | 7,654.8       | 4,573.4         | -4,761.5      | 124.6         | 4,760.5          | 0.00                | 414,232.31         | 617,320.52        |

BHL - 12189.0 'MD, 7654.8 'TVD, -4758.5 'N, 127.1 'E

| Design Annotations          |                             |                   |                 |                                                      |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                              |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                      |
| 7,217.0                     | 7,216.2                     | -23.8             | 4.8             | KOP - 7217.0 'MD, 7216.2 'TVD, -20.8 'N, 7.3 'E      |
| 7,967.0                     | 7,663.7                     | -544.2            | 29.5            | LP - 7967.0 'MD, 7663.7 'TVD, -541.1 'N, 32.0 'E     |
| 12,189.0                    | 7,654.8                     | -4,761.5          | 124.6           | BHL - 12189.0 'MD, 7654.8 'TVD, -4758.5 'N, 127.1 'E |

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