



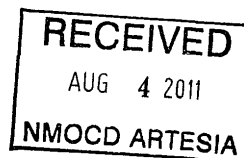
## **EOG Resources, Inc.**

Eddy County  
Sand Tank 4 Fed Com  
#1H  
ST1

Survey: MWD #1

## **Pathfinder X & Y Survey Report**

09 November, 2009



# **PATHFINDER**

30-015-32310

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | EQG Resources, Inc. | Local Co-ordinate Reference: | Well #1H                                      |
| Project:  | Eddy County         | TVD Reference:               | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Site:     | Sand Tank 4 Fed Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

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

|                       |                     |                   |                   |
|-----------------------|---------------------|-------------------|-------------------|
| Site:                 | Sand Tank 4 Fed Com |                   |                   |
| Site Position:        |                     | Northing:         | 644,057.600 ft    |
| From:                 | Map                 | Easting:          | 607,740.400 ft    |
| Position Uncertainty: | 0.00 ft             | Slot Radius:      | "                 |
|                       |                     | Latitude:         | 32° 46' 12.418 N  |
|                       |                     | Longitude:        | 103° 58' 58.143 W |
|                       |                     | Grid Convergence: | 0 19 °            |

|                      |         |         |                     |                |               |                   |
|----------------------|---------|---------|---------------------|----------------|---------------|-------------------|
| Well                 | #1H     |         |                     |                |               |                   |
| Well Position        | +N-S    | 0.00 ft | Northing:           | 644,057.600 ft | Latitude:     | 32° 46' 12.418 N  |
|                      | +E-W    | 0.00 ft | Easting:            | 607,740.400 ft | Longitude:    | 103° 58' 58.143 W |
| Position Uncertainty | 0.00 ft |         | Wellhead Elevation: | ft             | Ground Level: | 3,539.80 ft       |

|           |            |             |                    |                  |                        |
|-----------|------------|-------------|--------------------|------------------|------------------------|
| Wellbore  |            | ST1         |                    |                  |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF200510 | 10/28/2009  | 8.00               | 60.68            | 49,091                 |

|                   |                  |        |        |                    |
|-------------------|------------------|--------|--------|--------------------|
| Design:           |                  | ST1    |        |                    |
| Audit Notes:      |                  |        |        |                    |
| Version:          | 1.0              | Phase: | ACTUAL | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W  | Direction          |
|                   | (ft)             | (ft)   | (ft)   | (°)                |
|                   | 0.00             | 0.00   | 0.00   | 355.97             |

|                |           |                   |           |                |
|----------------|-----------|-------------------|-----------|----------------|
| Survey Program | Date      | 11/09/2009        |           |                |
| From           | To        | Survey (Wellbore) | Tool Name | Description    |
| (ft)           | (ft)      |                   |           |                |
| 197.00         | 11,715.00 | MWD #1 (ST1)      | MWD       | MWD - Standard |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #1H                                      |
| Project:  | Eddy County         | TVD Reference:               | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Site:     | Sand Tank 4 Fed Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| Survey     |            |            |             |               |             |             |                |                   |                  |                 |  |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 0.00       | 0.00       | 0.00       | 0.00        | -3,558.80     | 0.00        | 0.00        | 0.00           | 0.00              | 644,057.60       | 607,740.40      |  |
| 197.00     | 0.80       | 44.65      | 196.99      | -3,361.81     | 0.98        | 0.97        | 0.91           | 0.41              | 644,058.58       | 607,741.37      |  |
| 352.00     | 1.00       | 333.85     | 351.98      | -3,206.82     | 2.96        | 1.13        | 2.88           | 0.68              | 644,060.56       | 607,741.53      |  |
| 537.00     | 1.23       | 68.28      | 536.96      | -3,021.84     | 5.15        | 2.26        | 4.97           | 0.89              | 644,062.75       | 607,742.66      |  |
| 693.00     | 1.06       | 69.60      | 692.92      | -2,865.88     | 6.27        | 5.17        | 5.89           | 0.11              | 644,063.87       | 607,745.57      |  |
| 880.00     | 0.97       | 69.87      | 879.90      | -2,678.90     | 7.42        | 8.28        | 6.82           | 0.05              | 644,065.02       | 607,748.68      |  |
| 1,067.00   | 0.97       | 67.23      | 1,066.87    | -2,491.93     | 8.57        | 11.23       | 7.76           | 0.02              | 644,066.17       | 607,751.63      |  |
| 1,255.00   | 1.67       | 64.33      | 1,254.82    | -2,303.98     | 10.38       | 15.16       | 9.29           | 0.37              | 644,067.98       | 607,755.56      |  |
| 1,442.00   | 1.06       | 55.01      | 1,441.76    | -2,117.04     | 12.55       | 19.03       | 11.18          | 0.35              | 644,070.15       | 607,759.43      |  |
| 1,629.00   | 1.14       | 41.13      | 1,628.73    | -1,930.07     | 14.94       | 21.68       | 13.38          | 0.15              | 644,072.54       | 607,762.08      |  |
| 1,816.00   | 0.79       | 30.14      | 1,815.70    | -1,743.10     | 17.46       | 23.55       | 15.76          | 0.21              | 644,075.06       | 607,763.95      |  |
| 2,003.00   | 0.97       | 6.59       | 2,002.68    | -1,556.12     | 20.15       | 24.38       | 18.38          | 0.21              | 644,077.75       | 607,764.78      |  |
| 2,190.00   | 0.79       | 4.30       | 2,189.66    | -1,369.14     | 23.00       | 24.65       | 21.21          | 0.10              | 644,080.60       | 607,765.05      |  |
| 2,377.00   | 0.79       | 349.18     | 2,376.64    | -1,182.16     | 25.55       | 24.51       | 23.77          | 0.11              | 644,083.15       | 607,764.91      |  |
| 2,563.00   | 0.79       | 356.04     | 2,562.62    | -996.18       | 28.09       | 24.18       | 26.32          | 0.05              | 644,085.69       | 607,764.58      |  |
| 2,751.00   | 0.79       | 6.67       | 2,750.61    | -808.19       | 30.67       | 24.24       | 28.89          | 0.08              | 644,088.27       | 607,764.64      |  |
| 2,938.00   | 0.62       | 3.86       | 2,937.59    | -621.21       | 32.96       | 24.46       | 31.16          | 0.09              | 644,090.56       | 607,764.86      |  |
| 3,125.00   | 0.44       | 348.66     | 3,124.58    | -434.22       | 34.68       | 24.38       | 32.88          | 0.12              | 644,092.28       | 607,764.78      |  |
| 3,312.00   | 0.53       | 329.32     | 3,311.58    | -247.22       | 36.12       | 23.80       | 34.36          | 0.10              | 644,093.72       | 607,764.20      |  |
| 3,368.00   | 0.44       | 321.67     | 3,367.58    | -191.22       | 36.52       | 23.54       | 34.77          | 0.20              | 644,094.12       | 607,763.94      |  |
| 3,565.00   | 0.44       | 218.40     | 3,564.57    | 5.77          | 36.52       | 22.60       | 34.84          | 0.35              | 644,094.12       | 607,763.00      |  |
| 3,752.00   | 0.26       | 284.58     | 3,751.57    | 192.77        | 36.06       | 21.74       | 34.44          | 0.22              | 644,093.66       | 607,762.14      |  |
| 3,939.00   | 0.26       | 252.59     | 3,938.57    | 379.77        | 36.04       | 20.93       | 34.48          | 0.08              | 644,093.64       | 607,761.33      |  |
| 4,127.00   | 0.53       | 249.78     | 4,126.56    | 567.76        | 35.61       | 19.70       | 34.14          | 0.14              | 644,093.21       | 607,760.10      |  |
| 4,314.00   | 0.35       | 245.56     | 4,313.56    | 754.76        | 35.08       | 18.37       | 33.70          | 0.10              | 644,092.68       | 607,758.77      |  |
| 4,501.00   | 0.53       | 319.48     | 4,500.55    | 941.75        | 35.50       | 17.29       | 34.20          | 0.29              | 644,093.10       | 607,757.69      |  |
| 4,688.00   | 0.88       | 336.09     | 4,687.54    | 1,128.74      | 37.47       | 16.15       | 36.24          | 0.21              | 644,095.07       | 607,756.55      |  |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
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| Site:     | Sand Tank 4 Fed Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| Survey     |            |            |             |               |             |             |                |                    |                  |                 |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|--------------------|------------------|-----------------|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | D Leg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 4,876.00   | 1.76       | 348.74     | 4,875.49    | 1,316.69      | 41.62       | 15.00       | 40.46          | 0.49               | 644,099.22       | 607,755.40      |
| 5,063.00   | 0.88       | 5.27       | 5,062.44    | 1,503.64      | 45.87       | 14.57       | 44.73          | 0.51               | 644,103.47       | 607,754.97      |
| 5,239.00   | 0.97       | 350.33     | 5,238.41    | 1,679.61      | 48.68       | 14.44       | 47.55          | 0.15               | 644,106.28       | 607,754.84      |
| 5,426.00   | 1.14       | 357.88     | 5,425.38    | 1,866.58      | 52.10       | 14.11       | 50.98          | 0.12               | 644,109.70       | 607,754.51      |
| 5,614.00   | 1.58       | 3.42       | 5,613.33    | 2,054.53      | 56.56       | 14.19       | 55.42          | 0.24               | 644,114.16       | 607,754.59      |
| 5,801.00   | 2.02       | 22.05      | 5,800.24    | 2,241.44      | 62.18       | 15.58       | 60.94          | 0.39               | 644,119.78       | 607,755.98      |
| 5,988.00   | 3.87       | 34.09      | 5,986.98    | 2,428.18      | 70.47       | 20.36       | 68.86          | 1.04               | 644,128.07       | 607,760.76      |
| 6,050.00   | 2.90       | 35.76      | 6,048.88    | 2,490.08      | 73.47       | 22.45       | 71.71          | 1.57               | 644,131.07       | 607,762.85      |
| 6,113.00   | 2.20       | 52.82      | 6,111.81    | 2,553.01      | 75.50       | 24.34       | 73.60          | 1.63               | 644,133.10       | 607,764.74      |
| 6,175.00   | 1.41       | 89.20      | 6,173.78    | 2,614.98      | 76.23       | 26.05       | 74.21          | 2.18               | 644,133.83       | 607,766.45      |
| 6,268.00   | 3.08       | 95.09      | 6,266.71    | 2,707.91      | 76.02       | 29.69       | 73.75          | 1.81               | 644,133.62       | 607,770.09      |
| 6,362.00   | 2.81       | 72.50      | 6,360.59    | 2,801.79      | 76.49       | 34.40       | 73.88          | 1.26               | 644,134.09       | 607,774.80      |
| 6,455.00   | 1.93       | 354.54     | 6,453.53    | 2,894.73      | 78.73       | 36.42       | 75.98          | 3.29               | 644,136.33       | 607,776.82      |
| 6,549.00   | 1.14       | 324.75     | 6,547.49    | 2,988.69      | 81.07       | 35.73       | 78.36          | 1.17               | 644,138.67       | 607,776.13      |
| 6,642.00   | 1.14       | 312.18     | 6,640.48    | 3,081.68      | 82.45       | 34.51       | 79.82          | 0.27               | 644,140.05       | 607,774.91      |
| 6,737.00   | 1.14       | 319.04     | 6,735.46    | 3,176.66      | 83.80       | 33.19       | 81.26          | 0.14               | 644,141.40       | 607,773.59      |
| 6,924.00   | 1.32       | 339.87     | 6,922.42    | 3,363.62      | 87.23       | 31.23       | 84.81          | 0.26               | 644,144.83       | 607,771.63      |
| 7,122.00   | 1.58       | 331.60     | 7,120.35    | 3,561.55      | 91.77       | 29.15       | 89.49          | 0.17               | 644,149.37       | 607,769.55      |
| 7,309.00   | 1.67       | 339.87     | 7,307.28    | 3,748.48      | 96.59       | 26.99       | 94.46          | 0.13               | 644,154.19       | 607,767.39      |
| 7,393.00   | 2.02       | 351.49     | 7,391.23    | 3,832.43      | 99.21       | 26.35       | 97.11          | 0.61               | 644,156.81       | 607,766.75      |
| 7,424.00   | 3.17       | 354.39     | 7,422.20    | 3,863.40      | 100.60      | 26.18       | 98.51          | 3.73               | 644,158.20       | 607,766.58      |
| 7,456.00   | 6.42       | 356.78     | 7,454.09    | 3,895.29      | 103.27      | 26.00       | 101.19         | 10.17              | 644,160.87       | 607,766.40      |
| 7,487.00   | 10.73      | 353.81     | 7,484.73    | 3,925.93      | 107.87      | 25.59       | 105.80         | 13.97              | 644,165.47       | 607,765.99      |
| 7,518.00   | 14.86      | 349.43     | 7,514.96    | 3,956.16      | 114.65      | 24.55       | 112.64         | 13.68              | 644,172.25       | 607,764.95      |
| 7,549.00   | 18.47      | 345.07     | 7,544.65    | 3,985.85      | 123.31      | 22.55       | 121.42         | 12.32              | 644,180.91       | 607,762.95      |
| 7,580.00   | 21.10      | 345.81     | 7,573.82    | 4,015.02      | 133.46      | 19.92       | 131.73         | 8.52               | 644,191.06       | 607,760.32      |
| 7,611.00   | 23.30      | 348.08     | 7,602.52    | 4,043.72      | 144.87      | 17.28       | 143.30         | 7.62               | 644,202.47       | 607,757.68      |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
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| Project:  | Eddy County         | TVD Reference:               | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Site:     | Sand Tank 4 Fed Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| Survey     |            |            |             |               |             |             |                |                   |                  |                 |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 7,643.00   | 26.12      | 349.76     | 7,631.59    | 4,072.79      | 158.00      | 14.72       | 156.57         | 9.08              | 644,215.60       | 607,755.12      |
| 7,675.00   | 29.46      | 349.85     | 7,659.89    | 4,101.09      | 172.68      | 12.08       | 171.40         | 10.44             | 644,230.28       | 607,752.48      |
| 7,706.00   | 32.98      | 348.94     | 7,686.40    | 4,127.60      | 188.47      | 9.12        | 187.36         | 11.46             | 644,246.07       | 607,749.52      |
| 7,737.00   | 37.02      | 349.57     | 7,711.79    | 4,152.99      | 205.94      | 5.81        | 205.02         | 13.08             | 644,263.54       | 607,746.21      |
| 7,768.00   | 41.94      | 350.82     | 7,735.71    | 4,176.91      | 225.35      | 2.47        | 224.62         | 16.08             | 644,282.95       | 607,742.87      |
| 7,799.00   | 46.17      | 352.07     | 7,757.98    | 4,199.18      | 246.66      | -0.73       | 246.11         | 13.93             | 644,304.26       | 607,739.67      |
| 7,830.00   | 47.57      | 352.43     | 7,779.17    | 4,220.37      | 269.08      | -3.78       | 268.68         | 4.59              | 644,326.68       | 607,736.62      |
| 7,861.00   | 49.24      | 352.90     | 7,799.75    | 4,240.95      | 292.07      | -6.74       | 291.83         | 5.51              | 644,349.67       | 607,733.66      |
| 7,892.00   | 51.53      | 352.80     | 7,819.52    | 4,260.72      | 315.77      | -9.71       | 315.67         | 7.39              | 644,373.37       | 607,730.69      |
| 7,923.00   | 54.78      | 353.09     | 7,838.10    | 4,279.30      | 340.39      | -12.76      | 340.44         | 10.51             | 644,397.99       | 607,727.64      |
| 7,954.00   | 59.18      | 354.41     | 7,854.99    | 4,296.19      | 366.22      | -15.58      | 366.41         | 14.64             | 644,423.82       | 607,724.82      |
| 7,991.00   | 64.19      | 355.16     | 7,872.54    | 4,313.74      | 398.65      | -18.53      | 398.96         | 13.66             | 644,456.25       | 607,721.87      |
| 8,022.00   | 67.36      | 355.80     | 7,885.26    | 4,326.46      | 426.82      | -20.76      | 427.23         | 10.40             | 644,484.42       | 607,719.64      |
| 8,054.00   | 70.79      | 356.14     | 7,896.68    | 4,337.88      | 456.63      | -22.86      | 457.11         | 10.76             | 644,514.23       | 607,717.54      |
| 8,085.00   | 72.81      | 355.85     | 7,906.37    | 4,347.57      | 486.01      | -24.92      | 486.56         | 6.58              | 644,543.61       | 607,715.48      |
| 8,116.00   | 74.83      | 355.28     | 7,915.00    | 4,356.20      | 515.69      | -27.22      | 516.33         | 6.75              | 644,573.29       | 607,713.18      |
| 8,148.00   | 77.03      | 354.89     | 7,922.78    | 4,363.98      | 546.62      | -29.88      | 547.36         | 6.98              | 644,604.22       | 607,710.52      |
| 8,179.00   | 79.76      | 355.31     | 7,929.02    | 4,370.22      | 576.87      | -32.47      | 577.72         | 8.91              | 644,634.47       | 607,707.93      |
| 8,210.00   | 83.45      | 355.12     | 7,933.54    | 4,374.74      | 607.42      | -35.03      | 608.38         | 11.92             | 644,665.02       | 607,705.37      |
| 8,241.00   | 87.76      | 354.54     | 7,935.92    | 4,377.12      | 638.20      | -37.81      | 639.28         | 14.03             | 644,695.80       | 607,702.59      |
| 8,304.00   | 90.75      | 354.45     | 7,936.74    | 4,377.94      | 700.90      | -43.86      | 702.25         | 4.75              | 644,758.50       | 607,696.54      |
| 8,335.00   | 90.66      | 354.16     | 7,936.36    | 4,377.56      | 731.74      | -46.93      | 733.23         | 0.98              | 644,789.34       | 607,693.47      |
| 8,398.00   | 91.36      | 354.58     | 7,935.25    | 4,376.45      | 794.43      | -53.11      | 796.20         | 1.30              | 644,852.03       | 607,687.29      |
| 8,492.00   | 91.45      | 354.96     | 7,932.94    | 4,374.14      | 888.01      | -61.68      | 890.15         | 0.42              | 644,945.61       | 607,678.72      |
| 8,584.00   | 91.01      | 355.11     | 7,930.97    | 4,372.17      | 979.64      | -69.64      | 982.11         | 0.51              | 645,037.24       | 607,670.76      |
| 8,678.00   | 91.01      | 355.26     | 7,929.31    | 4,370.51      | 1,073.29    | -77.53      | 1,076.09       | 0.16              | 645,130.89       | 607,662.87      |
| 8,771.00   | 89.87      | 354.60     | 7,928.59    | 4,369.79      | 1,165.93    | -85.75      | 1,169.07       | 1.42              | 645,223.53       | 607,654.65      |

|           |                     |                              |                                               |
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| Site:     | Sand Tank 4 Fed.Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| MD<br>(ft) | Inc.<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V-Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
|------------|-------------|------------|-------------|---------------|-------------|-------------|---------------|-------------------|------------------|-----------------|
| 8,865.00   | 91.63       | 354.62     | 7,927.36    | 4,368.56      | 1,259.50    | -94.57      | 1,263.03      | 1.87              | 645,317.10       | 607,645.83      |
| 8,958.00   | 91.45       | 354.33     | 7,924.86    | 4,366.06      | 1,352.03    | -103.53     | 1,355.97      | 0.37              | 645,409.63       | 607,636.87      |
| 9,052.00   | 91.45       | 354.92     | 7,922.49    | 4,363.69      | 1,445.59    | -112.33     | 1,449.91      | 0.63              | 645,503.19       | 607,628.07      |
| 9,145.00   | 91.36       | 355.13     | 7,920.21    | 4,361.41      | 1,538.21    | -120.39     | 1,542.87      | 0.25              | 645,595.81       | 607,620.01      |
| 9,239.00   | 91.19       | 354.86     | 7,918.11    | 4,359.31      | 1,631.83    | -128.59     | 1,636.83      | 0.34              | 645,689.43       | 607,611.81      |
| 9,332.00   | 92.24       | 355.24     | 7,915.33    | 4,356.53      | 1,724.44    | -136.61     | 1,729.78      | 1.20              | 645,782.04       | 607,603.79      |
| 9,426.00   | 92.33       | 355.22     | 7,911.58    | 4,352.78      | 1,818.04    | -144.42     | 1,823.69      | 0.10              | 645,875.64       | 607,595.98      |
| 9,519.00   | 92.95       | 355.00     | 7,907.30    | 4,348.50      | 1,910.60    | -152.34     | 1,916.58      | 0.71              | 645,968.20       | 607,588.06      |
| 9,612.00   | 93.47       | 354.97     | 7,902.09    | 4,343.29      | 2,003.10    | -160.46     | 2,009.42      | 0.56              | 646,060.70       | 607,579.94      |
| 9,706.00   | 93.91       | 355.16     | 7,896.04    | 4,337.24      | 2,096.56    | -168.53     | 2,103.22      | 0.51              | 646,154.16       | 607,571.87      |
| 9,800.00   | 94.00       | 354.99     | 7,889.56    | 4,330.76      | 2,189.99    | -176.58     | 2,196.98      | 0.20              | 646,247.59       | 607,563.82      |
| 9,893.00   | 94.18       | 354.36     | 7,882.93    | 4,324.13      | 2,282.35    | -185.19     | 2,289.72      | 0.70              | 646,339.95       | 607,555.21      |
| 9,986.00   | 94.44       | 356.04     | 7,875.94    | 4,317.14      | 2,374.76    | -192.95     | 2,382.45      | 1.82              | 646,432.36       | 607,547.45      |
| 10,081.00  | 92.51       | 355.44     | 7,870.18    | 4,311.38      | 2,469.32    | -199.99     | 2,477.27      | 2.13              | 646,526.92       | 607,540.41      |
| 10,174.00  | 92.59       | 355.53     | 7,866.04    | 4,307.24      | 2,561.94    | -207.30     | 2,570.17      | 0.13              | 646,619.54       | 607,533.10      |
| 10,268.00  | 93.03       | 355.41     | 7,861.43    | 4,302.63      | 2,655.53    | -214.72     | 2,664.05      | 0.49              | 646,713.13       | 607,525.68      |
| 10,361.00  | 93.03       | 354.92     | 7,856.52    | 4,297.72      | 2,748.07    | -222.55     | 2,756.91      | 0.53              | 646,805.67       | 607,517.85      |
| 10,455.00  | 93.65       | 354.81     | 7,851.04    | 4,292.24      | 2,841.53    | -230.95     | 2,850.74      | 0.67              | 646,899.13       | 607,509.45      |
| 10,518.00  | 94.26       | 355.89     | 7,846.69    | 4,287.89      | 2,904.17    | -236.04     | 2,913.58      | 1.97              | 646,961.77       | 607,504.36      |
| 10,580.00  | 98.22       | 356.36     | 7,839.96    | 4,281.16      | 2,965.65    | -240.21     | 2,975.20      | 6.43              | 647,023.25       | 607,500.19      |
| 10,643.00  | 99.45       | 356.90     | 7,830.28    | 4,271.48      | 3,027.80    | -243.87     | 3,037.45      | 2.13              | 647,085.40       | 607,496.53      |
| 10,736.00  | 98.40       | 357.37     | 7,815.85    | 4,257.05      | 3,119.55    | -248.46     | 3,129.30      | 1.23              | 647,177.15       | 607,491.94      |
| 10,799.00  | 98.22       | 357.20     | 7,806.75    | 4,247.95      | 3,181.82    | -251.41     | 3,191.62      | 0.39              | 647,239.42       | 607,488.99      |
| 10,892.00  | 96.20       | 357.89     | 7,795.08    | 4,236.28      | 3,274.00    | -255.36     | 3,283.85      | 2.29              | 647,331.60       | 607,485.04      |
| 10,983.00  | 96.90       | 357.05     | 7,784.70    | 4,225.90      | 3,364.31    | -259.35     | 3,374.22      | 1.20              | 647,421.91       | 607,481.05      |
| 11,076.00  | 97.61       | 357.00     | 7,772.95    | 4,214.15      | 3,456.44    | -264.14     | 3,466.46      | 0.77              | 647,514.04       | 607,476.26      |
| 11,170.00  | 98.40       | 356.79     | 7,759.86    | 4,201.06      | 3,549.39    | -269.18     | 3,559.53      | 0.87              | 647,606.99       | 607,471.22      |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #1H                                      |
| Project:  | Eddy County         | TVD Reference:               | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Site:     | Sand Tank 4 Fed-Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| Survey     |            |            |             |               |             |             |                |                    |                  |                 |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|--------------------|------------------|-----------------|
| MD<br>(ft) | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | D Leg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
| 11,263.00  | 96.73      | 357.90     | 7,747.62    | 4,188.82      | 3,641.48    | -273.45     | 3,651.69       | 2.15               | 647,699.08       | 607,466.95      |
| 11,356.00  | 97.96      | 357.40     | 7,735.73    | 4,176.93      | 3,733.63    | -277.23     | 3,743.89       | 1.43               | 647,791.23       | 607,463.17      |
| 11,450.00  | 99.01      | 357.35     | 7,721.86    | 4,163.06      | 3,826.51    | -281.49     | 3,836.83       | 1.12               | 647,884.11       | 607,458.91      |
| 11,543.00  | 97.34      | 357.27     | 7,708.63    | 4,149.83      | 3,918.46    | -285.81     | 3,928.85       | 1.80               | 647,976.06       | 607,454.59      |
| 11,637.00  | 98.31      | 356.74     | 7,695.84    | 4,137.04      | 4,011.45    | -290.67     | 4,021.96       | 1.17               | 648,069.05       | 607,449.73      |
| 11,666.00  | 98.31      | 356.62     | 7,691.64    | 4,132.84      | 4,040.10    | -292.34     | 4,050.66       | 0.41               | 648,097.70       | 607,448.06      |
| 11,715.00  | 98.31      | 356.62     | 7,684.56    | 4,125.76      | 4,088.50    | -295.19     | 4,099.14       | 0.00               | 648,146.10       | 607,445.21      |

Proj To Bit -11715.00°MD,98.31°INC,356.62°AZI, 7684.56°TVD, 4099.14°VS, 4088.50°N, -295.19°E

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | EOG Resources, Inc. | Local Co-ordinate Reference: | Well #1H                                      |
| Project:  | Eddy County         | TVD Reference:               | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Site:     | Sand Tank 4 Fed Com | MD Reference:                | WELL @ 3558.80ft (19' Kb Correction McVay #4) |
| Well:     | #1H                 | North Reference:             | Grid                                          |
| Wellbore: | ST1                 | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | ST1                 | Database:                    | Midland Database                              |

| Targets                                                                          |                 |               |             |          |            |            |               |              |                                    |
|----------------------------------------------------------------------------------|-----------------|---------------|-------------|----------|------------|------------|---------------|--------------|------------------------------------|
| Target Name                                                                      | hit/miss target | Dip Angle (°) | Dip Dir (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude Longitude                 |
| PBHL(#1H)                                                                        |                 | 0.00          | 0.00        | 7,783.32 | 3,648.40   | -295.60    | 647,706.000   | 607,444.800  | 32° 46' 48.530 N 103° 59' 1.464 W  |
| - survey misses by 42.44ft at 11266.20ft MD (7747.24 TVD, 3644.65 N, -273.57 E)  |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |
| FAF Federal No. 1                                                                |                 | 0.00          | 0.00        | 0.00     | 1,609.20   | -30.00     | 645,666.800   | 607,710.400  | 32° 46' 28.343 N 103° 58' 58.432 W |
| - survey misses by 1609.50ft at 7.85ft MD (7.85 TVD, 0.00 N, 0.00 E)             |                 |               |             |          |            |            |               |              |                                    |
| - Circle (radius 100.00)                                                         |                 |               |             |          |            |            |               |              |                                    |
| Alt - BHL(#1H)                                                                   |                 | 0.00          | 0.00        | 7,727.82 | 4,547.80   | -319.20    | 648,605.400   | 607,421.200  | 32° 46' 57.431 N 103° 59' 1.705 W  |
| - survey misses by 461.95ft at 11715.00ft MD (7684.56 TVD, 4088.50 N, -295.19 E) |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |
| (T3 #1H)                                                                         |                 |               | 0.00        | 7,824.00 | 2,990.88   | -235.14    | 647,048.476   | 607,505.260  | 32° 46' 42.022 N 103° 59' 0.781 W  |
| - survey misses by 13.80ft at 10607.04ft MD (7835.97 TVD, 2992.34 N, -241.85 E)  |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |
| (T2 #1H)                                                                         |                 | 0.00          | 0.00        | 7,909.00 | 1,596.10   | -111.61    | 645,653.702   | 607,628.790  | 32° 46' 28.216 N 103° 58' 59.388 W |
| - survey misses by 16.94ft at 9202.14ft MD (7918.90 TVD, 1595.12 N, -125.32 E)   |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |
| LP Plan 3 (#1H)                                                                  |                 | 0.00          | 0.00        | 7,939.00 | 599.63     | -20.94     | 644,657.234   | 607,719.460  | 32° 46' 18.353 N 103° 58' 58.365 W |
| - survey misses by 14.88ft at 8201.95ft MD (7932.56 TVD, 599.47 N, -34.35 E)     |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |
| (T4 #1H)                                                                         |                 |               | 0.00        | 7,764.00 | 3,988.00   | -311.16    | 648,045.601   | 607,429.241  | 32° 46' 51.891 N 103° 59' 1.633 W  |
| - survey misses by 67.90ft at 11605.58ft MD (7700.29 TVD, 3980.40 N, -288.95 E)  |                 |               |             |          |            |            |               |              |                                    |
| - Point                                                                          |                 |               |             |          |            |            |               |              |                                    |

| Survey Annotations  |                     |                   |            |                                                                          |
|---------------------|---------------------|-------------------|------------|--------------------------------------------------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                                                                  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                                                          |
| 11,715.00           | 7,684.56            | 4,088.50          | -295.19    | Proj To Bit -11715.00' MD, 98.31° INC, 356.62° AZI, 7684.56' TVD, 4099.1 |

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