

SUR: B-23-25s-33e, 20/n & 1310/E  
BHL: P-23-25s-33e, 4921/N & 1276/E  
API # 30-025-40248

HOBS OGD  
NOV 23 2011  
RECEIVED

## EOG Resources

Lea County, NM (Nad27)  
Caballo 23 Federal  
Caballo 23 Fed. 6H  
Wellbore #1

Design: Wellbore #1

## EOG Resources

29 September, 2011



NOV 29 2011

Phoenix Technology Services  
EOG Resources



|                  |                        |                                     |                                                        |
|------------------|------------------------|-------------------------------------|--------------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Caballo 23 Fed 6H                                 |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| <b>Site:</b>     | Caballo 23 Federal     | <b>MD Reference:</b>                | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| <b>Well:</b>     | Caballo 23 Fed. 6H     | <b>North Reference:</b>             | Gnd                                                    |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | GCR DB v5000                                           |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project:</b>    | Lea County, NM (Nad27)               | <b>System Datum:</b> | Mean Sea Level |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) |                      |                |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                    |                     |                 |                          |                   |
|------------------------------|--------------------|---------------------|-----------------|--------------------------|-------------------|
| <b>Site:</b>                 | Caballo 23 Federal |                     |                 |                          |                   |
| <b>Site Position:</b>        |                    | <b>Northing:</b>    | 409,417.30 usft | <b>Latitude:</b>         | 32° 7' 23.191 N   |
| <b>From:</b>                 | Map                | <b>Eastings:</b>    | 746,110.10 usft | <b>Longitude:</b>        | 103° 32' 18.108 W |
| <b>Position Uncertainty:</b> | 0 00 usft          | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.42 °            |

|                      |                    |           |                     |                 |               |                   |
|----------------------|--------------------|-----------|---------------------|-----------------|---------------|-------------------|
| Well                 | Caballo 23 Fed. 6H |           |                     |                 |               |                   |
| Well Position        | +N/-S              | 0.00 usft | Northing:           | 409,417.30 usft | Latitude:     | 32° 7' 23.191 N   |
|                      | +E/-W              | 0.00 usft | Eastings:           | 746,110.10 usft | Longitude:    | 103° 32' 18.108 W |
| Position Uncertainty |                    | 0 00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,345.99 usft     |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore:</b> | Wellbore #1       |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF2010_14       | 9/7/2011           | 7.54               | 60.09            | 48,537                |

|                          |                         |               |              |                      |      |
|--------------------------|-------------------------|---------------|--------------|----------------------|------|
| <b>Design:</b>           | Wellbore #1             |               |              |                      |      |
| <b>Audit Notes:</b>      |                         |               |              |                      |      |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |      |
|                          | (usft)                  | (usft)        | (usft)       | (°)                  |      |
|                          | 0 00                    | 0 00          | 0.00         | 179.56               |      |

Phoenix Technology Services  
EOG Resources



|           |                        |                              |                                                        |
|-----------|------------------------|------------------------------|--------------------------------------------------------|
| Company:  | EOG Resources          | Local Co-ordinate Reference: | Well Caballo 23 Fed. 6H                                |
| Project:  | Lea County, NM.(Nad27) | TVD Reference:               | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| Site:     | Caballo 23 Federal     | MD Reference:                | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| Well:     | Caballo 23 Fed 6H      | North Reference:             | Grnd                                                   |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                                      |
| Design:   | Wellbore #1            | Database:                    | GCR DB v5000                                           |

| Survey Program |              | Date                              | 9/29/2011 |                |  |
|----------------|--------------|-----------------------------------|-----------|----------------|--|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)                 | Tool Name | Description    |  |
| 100 00         | 1,095 36     | Gyro Surveys (Wellbore #1)        | MWD       | MWD - Standard |  |
| 1,280 00       | 14,123 00    | Phoenix MWD Surveys (Wellbore #1) | MWD       | MWD - Standard |  |

| MD<br>(usft)             | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 0.00                     | 0.00       | 0.00                 | -3,375.99       | 0.00          | 0.00          | 0.00          | 0.00             | 0.00                | 409,417.30         | 746,110.10        |
| 100.00                   | 0.35       | 78.32                | -3,275.99       | 100.00        | 0.06          | 0.30          | -0.06            | 0.35                | 409,417.36         | 746,110.40        |
| 200.00                   | 0.36       | 43.98                | -3,176.00       | 200.00        | 0.35          | 0.82          | -0.34            | 0.21                | 409,417.65         | 746,110.92        |
| 300.00                   | 0.23       | 35.82                | -3,076.00       | 300.00        | 0.74          | 1.15          | -0.73            | 0.14                | 409,418.04         | 746,111.25        |
| 400.00                   | 0.28       | 51.73                | -2,976.00       | 399.99        | 1.05          | 1.46          | -1.04            | 0.09                | 409,418.35         | 746,111.56        |
| 500.00                   | 0.20       | 35.47                | -2,876.00       | 499.99        | 1.35          | 1.75          | -1.33            | 0.10                | 409,418.65         | 746,111.85        |
| 600.00                   | 0.19       | 318.25               | -2,776.00       | 599.99        | 1.61          | 1.75          | -1.60            | 0.24                | 409,418.91         | 746,111.85        |
| 700.00                   | 0.37       | 313.30               | -2,676.00       | 699.99        | 1.96          | 1.40          | -1.95            | 0.18                | 409,419.26         | 746,111.50        |
| 800.00                   | 0.57       | 296.96               | -2,576.01       | 799.99        | 2.40          | 0.72          | -2.40            | 0.24                | 409,419.70         | 746,110.82        |
| 900.00                   | 0.66       | 288.86               | -2,476.01       | 899.98        | 2.82          | -0.27         | -2.82            | 0.12                | 409,420.12         | 746,109.83        |
| 1,000.00                 | 0.55       | 287.39               | -2,376.02       | 999.98        | 3.15          | -1.27         | -3.16            | 0.11                | 409,420.45         | 746,108.83        |
| 1,095.36                 | 0.94       | 251.94               | -2,280.66       | 1,095.33      | 3.04          | -2.45         | -3.06            | 0.61                | 409,420.34         | 746,107.65        |
| Last Gyro Survey         |            |                      |                 |               |               |               |                  |                     |                    |                   |
| 1,280.00                 | 0.60       | 273.60               | -2,096.04       | 1,279.95      | 2.63          | -4.86         | -2.67            | 0.24                | 409,419.93         | 746,105.24        |
| First Phoenix MWD Survey |            |                      |                 |               |               |               |                  |                     |                    |                   |
| 1,372.00                 | 0.70       | 256.70               | -2,004.05       | 1,371.95      | 2.53          | -5.88         | -2.58            | 0.23                | 409,419.83         | 746,104.22        |
| 1,464.00                 | 2.20       | 147.80               | -1,912.07       | 1,463.93      | 0.91          | -5.49         | -0.95            | 2.73                | 409,418.21         | 746,104.61        |
| 1,557.00                 | 4.80       | 137.60               | -1,819.25       | 1,556.74      | -3.48         | -1.91         | 3.46             | 2.86                | 409,413.82         | 746,108.19        |
| 1,648.00                 | 4.10       | 127.40               | -1,728.52       | 1,647.47      | -8.26         | 3.24          | 8.29             | 1.16                | 409,409.04         | 746,113.34        |
| 1,743.00                 | 4.00       | 121.40               | -1,633.76       | 1,742.23      | -12.05        | 8.76          | 12.12            | 0.46                | 409,405.25         | 746,118.86        |
| 1,838.00                 | 3.20       | 119.30               | -1,538.95       | 1,837.05      | -15.08        | 13.91         | 15.18            | 0.85                | 409,402.22         | 746,124.01        |
| 1,934.00                 | 1.80       | 113.20               | -1,443.04       | 1,932.95      | -16.98        | 17.63         | 17.12            | 1.48                | 409,400.32         | 746,127.73        |

Phoenix Technology Services  
EOG Resources



|           |                        |                              |                                                        |
|-----------|------------------------|------------------------------|--------------------------------------------------------|
| Company:  | EOG Resources          | Local Co-ordinate Reference: | Well Caballo 23 Fed. 6H                                |
| Project:  | Lea County, NM (Nad27) | TVD Reference:               | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| Site:     | Caballo 23 Federal     | MD Reference:                | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| Well:     | Caballo 23 Fed. 6H     | North Reference:             | Grid                                                   |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                                      |
| Design:   | Wellbore #1            | Database:                    | GCR DB v5000                                           |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 2,029.00     | 1.20       | 79 60                | -1,348.07       | 2,027.92      | -17 39        | 19.98         | 17.54            | 1 09                | 409,399 91         | 746,130 08        |
| 2,125.00     | 1 10       | 27 40                | -1,252.09       | 2,123.90      | -16.39        | 21.39         | 16 55            | 1.06                | 409,400 91         | 746,131.49        |
| 2,221.00     | 1 50       | 354.30               | -1,156.11       | 2,219 88      | -14.32        | 21 69         | 14 49            | 0 87                | 409,402.98         | 746,131.79        |
| 2,316.00     | 1.80       | 352.20               | -1,061.15       | 2,314 84      | -11.61        | 21 36         | 11 77            | 0 32                | 409,405.69         | 746,131 46        |
| 2,412.00     | 1.80       | 339.30               | -965 20         | 2,410.79      | -8.70         | 20 63         | 8 86             | 0.42                | 409,408.60         | 746,130.73        |
| 2,507.00     | 1.50       | 321.10               | -870 24         | 2,505.76      | -6 34         | 19 32         | 6.49             | 0.63                | 409,410.96         | 746,129 42        |
| 2,603.00     | 1.20       | 300.00               | -774 26         | 2,601 73      | -4.86         | 17 66         | 4 99             | 0.60                | 409,412.44         | 746,127.76        |
| 2,699.00     | 1.10       | 305.60               | -678.28         | 2,697.71      | -3.82         | 16.04         | 3.94             | 0.16                | 409,413 48         | 746,126.14        |
| 2,794.00     | 1.00       | 324.00               | -583 30         | 2,792.69      | -2.62         | 14.81         | 2.73             | 0.37                | 409,414.68         | 746,124.91        |
| 2,890 00     | 0.80       | 340 80               | -487.31         | 2,888 68      | -1.31         | 14 10         | 1 42             | 0.34                | 409,415 99         | 746,124.20        |
| 3,081 00     | 0.90       | 24.10                | -296 33         | 3,079 66      | 1.32          | 14.27         | -1 21            | 0.33                | 409,418 62         | 746,124.37        |
| 3,272 00     | 1.70       | 48.90                | -105 38         | 3,270 61      | 4.55          | 17 02         | -4 42            | 0.50                | 409,421 85         | 746,127.12        |
| 3,464.00     | 1.50       | 11.60                | 86 55           | 3,462.54      | 8.89          | 19 67         | -8 73            | 0.54                | 409,426.19         | 746,129.77        |
| 3,655.00     | 0.50       | 220 40               | 277 53          | 3,653.53      | 10.70         | 19 63         | -10 55           | 1.02                | 409,428.00         | 746,129 73        |
| 3,846.00     | 1 10       | 160.30               | 468.52          | 3,844.51      | 8.34          | 19 71         | -8.19            | 0.50                | 409,425.64         | 746,129.81        |
| 4,037 00     | 0 80       | 190 10               | 659 49          | 4,035 48      | 5.30          | 20 09         | -5.15            | 0.30                | 409,422.60         | 746,130.19        |
| 4,229 00     | 1.30       | 236.20               | 851.46          | 4,227.45      | 2.77          | 18 05         | -2 63            | 0.49                | 409,420.07         | 746,128 15        |
| 4,416.00     | 1.70       | 201.50               | 1,038 40        | 4,414.39      | -0 99         | 15 27         | 1.11             | 0.52                | 409,416.31         | 746,125 37        |
| 4,607 00     | 1.20       | 197.20               | 1,229 34        | 4,605.33      | -5 54         | 13 64         | 5.64             | 0 27                | 409,411.76         | 746,123 74        |
| 4,798.00     | 1 50       | 167 60               | 1,420 29        | 4,796.28      | -9 89         | 13.59         | 9.99             | 0.39                | 409,407 41         | 746,123.69        |
| 4,943.00     | 1 10       | 208.60               | 1,565 25        | 4,941 25      | -12 97        | 13 33         | 13.07            | 0 68                | 409,404.33         | 746,123.43        |
| 5,082 00     | 1 50       | 224 60               | 1,704 22        | 5,080 21      | -15 43        | 11 41         | 15.52            | 0 39                | 409,401 87         | 746,121.51        |
| 5,273.00     | 0.60       | 21 60                | 1,895.20        | 5,271 19      | -16.28        | 10 02         | 16 36            | 1 08                | 409,401 02         | 746,120 12        |
| 5,464 00     | 0.60       | 356 30               | 2,086 19        | 5,462 18      | -14.35        | 10 33         | 14.43            | 0.14                | 409,402.95         | 746,120.43        |
| 5,655.00     | 0.70       | 10 70                | 2,277 18        | 5,653 17      | -12 21        | 10 48         | 12 29            | 0.10                | 409,405 09         | 746,120.58        |
| 5,847 00     | 0.90       | 8 10                 | 2,469 16        | 5,845 15      | -9.57         | 10 91         | 9 65             | 0 11                | 409,407 73         | 746,121 01        |
| 6,038 00     | 1 30       | 6.10                 | 2,660 12        | 6,036.12      | -5.93         | 11 35         | 6.01             | 0 21                | 409,411 37         | 746,121 45        |

Phoenix Technology Services  
EOG Resources



|           |                        |                              |                                                        |
|-----------|------------------------|------------------------------|--------------------------------------------------------|
| Company:  | EOG Resources          | Local Co-ordinate Reference: | Well Caballo 23 Fed. 6H                                |
| Project:  | Lea County, NM (Nad27) | TVD Reference:               | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| Site:     | Caballo 23 Federal     | MD Reference:                | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| Well:     | Caballo 23 Fed 6H      | North Reference:             | Grid                                                   |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                                      |
| Design:   | Wellbore #1            | Database:                    | GCR DB v5000                                           |

| Survey       |            |                      |                 |               |               |               |                  |                     |                    |                   |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
| 6,229.00     | 1.40       | 349.30               | 2,851.07        | 6,227.06      | -1.48         | 11.15         | 1.56             | 0.21                | 409,415.82         | 746,121.25        |
| 6,421.00     | 1.50       | 338.90               | 3,043.01        | 6,419.00      | 3.17          | 9.81          | -3.10            | 0.15                | 409,420.47         | 746,119.91        |
| 6,612.00     | 0.40       | 303.30               | 3,233.98        | 6,609.98      | 5.87          | 8.35          | -5.80            | 0.63                | 409,423.17         | 746,118.45        |
| 6,803.00     | 0.60       | 328.20               | 3,424.97        | 6,800.97      | 7.09          | 7.27          | -7.03            | 0.15                | 409,424.39         | 746,117.37        |
| 6,995.00     | 0.60       | 306.60               | 3,616.96        | 6,992.96      | 8.54          | 5.93          | -8.49            | 0.12                | 409,425.84         | 746,116.03        |
| 7,186.00     | 0.90       | 284.40               | 3,807.95        | 7,183.94      | 9.51          | 3.67          | -9.48            | 0.22                | 409,426.81         | 746,113.77        |
| 7,377.00     | 0.80       | 277.50               | 3,998.93        | 7,374.92      | 10.06         | 0.90          | -10.05           | 0.07                | 409,427.36         | 746,111.00        |
| 7,569.00     | 0.70       | 284.10               | 4,190.91        | 7,566.90      | 10.52         | -1.57         | -10.53           | 0.07                | 409,427.82         | 746,108.53        |
| 7,760.00     | 0.70       | 290.00               | 4,381.90        | 7,757.89      | 11.20         | -3.79         | -11.23           | 0.04                | 409,428.50         | 746,106.31        |
| 7,950.00     | 0.40       | 347.50               | 4,571.89        | 7,947.88      | 12.24         | -5.03         | -12.28           | 0.31                | 409,429.54         | 746,105.07        |
| 8,142.00     | 0.10       | 353.10               | 4,763.89        | 8,139.88      | 13.06         | -5.19         | -13.10           | 0.16                | 409,430.36         | 746,104.91        |
| 8,333.00     | 0.70       | 253.30               | 4,954.88        | 8,330.88      | 12.89         | -6.33         | -12.94           | 0.38                | 409,430.19         | 746,103.77        |
| 8,524.00     | 1.40       | 236.20               | 5,145.85        | 8,521.84      | 11.26         | -9.39         | -11.33           | 0.40                | 409,428.56         | 746,100.71        |
| 8,715.00     | 1.20       | 231.10               | 5,336.80        | 8,712.79      | 8.71          | -12.88        | -8.81            | 0.12                | 409,426.01         | 746,097.22        |
| 8,854.00     | 0.80       | 220.90               | 5,475.78        | 8,851.77      | 7.06          | -14.65        | -7.17            | 0.31                | 409,424.36         | 746,095.45        |
| 8,898.00     | 0.80       | 223.80               | 5,519.77        | 8,895.77      | 6.61          | -15.07        | -6.72            | 0.09                | 409,423.91         | 746,095.03        |
| 8,930.00     | 2.70       | 187.40               | 5,551.76        | 8,927.75      | 5.70          | -15.32        | -5.81            | 6.59                | 409,423.00         | 746,094.78        |
| 8,961.00     | 7.60       | 179.90               | 5,582.62        | 8,958.62      | 2.92          | -15.41        | -3.04            | 15.92               | 409,420.22         | 746,094.69        |
| 8,993.00     | 13.00      | 179.30               | 5,614.10        | 8,990.09      | -2.80         | -15.36        | 2.68             | 16.88               | 409,414.50         | 746,094.74        |
| 9,025.00     | 17.50      | 179.40               | 5,644.96        | 9,020.96      | -11.21        | -15.27        | 11.09            | 14.06               | 409,406.09         | 746,094.83        |
| 9,057.00     | 19.90      | 180.70               | 5,675.27        | 9,051.26      | -21.47        | -15.28        | 21.35            | 7.61                | 409,395.83         | 746,094.82        |
| 9,089.00     | 21.40      | 180.60               | 5,705.21        | 9,081.21      | -32.75        | -15.41        | 32.64            | 4.69                | 409,384.55         | 746,094.69        |
| 9,121.00     | 22.70      | 180.00               | 5,734.87        | 9,110.87      | -44.77        | -15.47        | 44.65            | 4.12                | 409,372.53         | 746,094.63        |
| 9,153.00     | 25.50      | 179.20               | 5,764.08        | 9,140.07      | -57.83        | -15.37        | 57.71            | 8.81                | 409,359.47         | 746,094.73        |
| 9,185.00     | 29.20      | 178.60               | 5,792.50        | 9,168.49      | -72.53        | -15.09        | 72.41            | 11.59               | 409,344.77         | 746,095.01        |
| 9,216.00     | 32.90      | 177.90               | 5,819.05        | 9,195.05      | -88.51        | -14.59        | 88.39            | 11.99               | 409,328.79         | 746,095.51        |
| 9,248.00     | 35.40      | 178.70               | 5,845.53        | 9,221.53      | -106.46       | -14.07        | 106.35           | 7.94                | 409,310.84         | 746,096.03        |

Phoenix Technology Services  
EOG Resources



|                  |                        |                                     |                                                         |
|------------------|------------------------|-------------------------------------|---------------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Caballo 23 Fed. 6H                                 |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus) |
| <b>Site:</b>     | Caballo 23 Federal     | <b>MD Reference:</b>                | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus) |
| <b>Well:</b>     | Caballo 23 Fed 6H      | <b>North Reference:</b>             | Grid                                                    |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                       |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | GCR DB v5000                                            |

| Survey       |            |                      |                 |               |               |               |                  |                     |                    |                   |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
| 9,280.00     | 37.30      | 178.20               | 5,871.31        | 9,247.30      | -125.42       | -13.55        | 125.31           | 6.01                | 409,291.88         | 746,096.55        |
| 9,312.00     | 39.40      | 177.80               | 5,896.40        | 9,272.39      | -145.26       | -12.86        | 145.16           | 6.61                | 409,272.04         | 746,097.24        |
| 9,344.00     | 42.90      | 177.50               | 5,920.49        | 9,296.48      | -166.30       | -11.99        | 166.20           | 10.95               | 409,251.00         | 746,098.11        |
| 9,376.00     | 46.70      | 177.50               | 5,943.19        | 9,319.19      | -188.82       | -11.01        | 188.73           | 11.87               | 409,228.48         | 746,099.09        |
| 9,408.00     | 51.00      | 177.60               | 5,964.25        | 9,340.24      | -212.89       | -9.98         | 212.80           | 13.44               | 409,204.41         | 746,100.12        |
| 9,440.00     | 55.20      | 177.40               | 5,983.45        | 9,359.45      | -238.45       | -8.86         | 238.37           | 13.13               | 409,178.85         | 746,101.24        |
| 9,472.00     | 58.50      | 178.10               | 6,000.95        | 9,376.94      | -265.21       | -7.81         | 265.15           | 10.47               | 409,152.09         | 746,102.29        |
| 9,504.00     | 62.10      | 178.70               | 6,016.80        | 9,392.80      | -293.00       | -7.04         | 292.93           | 11.37               | 409,124.30         | 746,103.06        |
| 9,536.00     | 65.90      | 178.10               | 6,030.83        | 9,406.82      | -321.74       | -6.23         | 321.68           | 11.99               | 409,095.56         | 746,103.87        |
| 9,568.00     | 70.20      | 177.80               | 6,042.79        | 9,418.78      | -351.39       | -5.17         | 351.34           | 13.47               | 409,065.91         | 746,104.93        |
| 9,600.00     | 74.30      | 177.40               | 6,052.54        | 9,428.53      | -381.84       | -3.89         | 381.80           | 12.87               | 409,035.46         | 746,106.21        |
| 9,632.00     | 78.10      | 178.10               | 6,060.17        | 9,436.17      | -412.88       | -2.68         | 412.85           | 12.06               | 409,004.42         | 746,107.42        |
| 9,664.00     | 80.60      | 178.90               | 6,066.09        | 9,442.08      | -444.32       | -1.85         | 444.29           | 8.19                | 408,972.98         | 746,108.25        |
| 9,695.00     | 83.30      | 179.60               | 6,070.43        | 9,446.42      | -475.01       | -1.45         | 474.98           | 8.99                | 408,942.29         | 746,108.65        |
| 9,727.00     | 85.90      | 180.60               | 6,073.44        | 9,449.43      | -506.86       | -1.51         | 506.84           | 8.70                | 408,910.44         | 746,108.59        |
| 9,790.00     | 87.60      | 179.40               | 6,077.01        | 9,453.00      | -569.76       | -1.51         | 569.73           | 3.30                | 408,847.54         | 746,108.59        |
| 9,885.00     | 89.00      | 179.30               | 6,079.83        | 9,455.82      | -664.71       | -0.43         | 664.69           | 1.48                | 408,752.59         | 746,109.67        |
| 9,981.00     | 88.50      | 180.00               | 6,081.92        | 9,457.92      | -760.68       | 0.16          | 760.66           | 0.90                | 408,656.62         | 746,110.26        |
| 10,077.00    | 91.60      | 179.20               | 6,081.84        | 9,457.83      | -856.67       | 0.83          | 856.65           | 3.33                | 408,560.63         | 746,110.93        |
| 10,172.00    | 90.60      | 180.70               | 6,080.01        | 9,456.01      | -951.65       | 0.91          | 951.62           | 1.90                | 408,465.65         | 746,111.01        |
| 10,268.00    | 91.10      | 181.70               | 6,078.59        | 9,454.58      | -1,047.61     | -1.10         | 1,047.57         | 1.16                | 408,369.69         | 746,109.00        |
| 10,364.00    | 91.10      | 181.00               | 6,076.75        | 9,452.74      | -1,143.57     | -3.36         | 1,143.51         | 0.73                | 408,273.73         | 746,106.74        |
| 10,459.00    | 89.80      | 179.60               | 6,076.00        | 9,451.99      | -1,238.56     | -3.86         | 1,238.49         | 2.01                | 408,178.74         | 746,106.24        |
| 10,554.00    | 90.20      | 181.20               | 6,076.00        | 9,451.99      | -1,333.55     | -4.52         | 1,333.48         | 1.74                | 408,083.75         | 746,105.58        |
| 10,650.00    | 90.20      | 181.00               | 6,075.67        | 9,451.66      | -1,429.54     | -6.37         | 1,429.44         | 0.21                | 407,987.76         | 746,103.73        |
| 10,746.00    | 89.00      | 182.50               | 6,076.34        | 9,452.33      | -1,525.48     | -9.30         | 1,525.37         | 2.00                | 407,891.82         | 746,100.80        |
| 10,841.00    | 88.80      | 178.80               | 6,078.16        | 9,454.15      | -1,620.44     | -10.38        | 1,620.32         | 3.90                | 407,796.86         | 746,099.72        |

Phoenix Technology Services  
EOG Resources



|           |                        |                              |                                                        |
|-----------|------------------------|------------------------------|--------------------------------------------------------|
| Company:  | EOG Resources          | Local Co-ordinate Reference: | Well Caballo 23 Fed. 6H                                |
| Project:  | Lea County, NM (Nad27) | TVD Reference:               | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| Site:     | Caballo 23 Federal     | MD Reference:                | Well @ 3375.99usft (Original Well Elev + 30' KB Cactus |
| Well:     | Caballo 23 Fed 6H      | North Reference:             | Grid                                                   |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                                      |
| Design:   | Wellbore #1            | Database:                    | GCR DB v5000                                           |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 10,937.00    | 88.40      | 177.70               | 6,080.51        | 9,456.50      | -1,716.37     | -7.44         | 1,716.26         | 1.22                | 407,700.93         | 746,102.66        |
| 11,033.00    | 88.10      | 178.00               | 6,083.44        | 9,459.43      | -1,812.26     | -3.84         | 1,812.17         | 0.44                | 407,605.04         | 746,106.26        |
| 11,128.00    | 89.90      | 179.30               | 6,085.10        | 9,461.09      | -1,907.21     | -1.61         | 1,907.14         | 2.34                | 407,510.09         | 746,108.49        |
| 11,224.00    | 89.20      | 178.40               | 6,085.85        | 9,461.84      | -2,003.19     | 0.32          | 2,003.13         | 1.19                | 407,414.11         | 746,110.42        |
| 11,320.00    | 90.30      | 180.30               | 6,086.27        | 9,462.26      | -2,099.17     | 1.41          | 2,099.12         | 2.29                | 407,318.13         | 746,111.51        |
| 11,416.00    | 90.10      | 180.30               | 6,085.93        | 9,461.93      | -2,195.17     | 0.91          | 2,195.11         | 0.21                | 407,222.13         | 746,111.01        |
| 11,510.00    | 90.90      | 178.80               | 6,085.11        | 9,461.11      | -2,289.16     | 1.64          | 2,289.11         | 1.81                | 407,128.14         | 746,111.74        |
| 11,605.00    | 90.60      | 177.60               | 6,083.87        | 9,459.86      | -2,384.10     | 4.63          | 2,384.07         | 1.30                | 407,033.20         | 746,114.73        |
| 11,701.00    | 89.60      | 178.50               | 6,083.70        | 9,459.70      | -2,480.05     | 7.89          | 2,480.03         | 1.40                | 406,937.25         | 746,117.99        |
| 11,797.00    | 90.00      | 178.40               | 6,084.04        | 9,460.03      | -2,576.01     | 10.49         | 2,576.01         | 0.43                | 406,841.29         | 746,120.59        |
| 11,893.00    | 91.10      | 179.70               | 6,083.12        | 9,459.11      | -2,671.99     | 12.08         | 2,672.00         | 1.77                | 406,745.31         | 746,122.18        |
| 11,988.00    | 90.50      | 179.30               | 6,081.79        | 9,457.78      | -2,766.98     | 12.91         | 2,766.99         | 0.76                | 406,650.32         | 746,123.01        |
| 12,084.00    | 90.80      | 178.70               | 6,080.70        | 9,456.69      | -2,862.95     | 14.59         | 2,862.98         | 0.70                | 406,554.35         | 746,124.69        |
| 12,180.00    | 89.80      | 178.50               | 6,080.20        | 9,456.19      | -2,958.92     | 16.93         | 2,958.97         | 1.06                | 406,458.38         | 746,127.03        |
| 12,275.00    | 87.00      | 176.40               | 6,082.85        | 9,458.84      | -3,053.78     | 21.16         | 3,053.85         | 3.68                | 406,363.52         | 746,131.26        |
| 12,371.00    | 87.20      | 177.40               | 6,087.71        | 9,463.70      | -3,149.51     | 26.34         | 3,149.62         | 1.06                | 406,267.79         | 746,136.44        |
| 12,467.00    | 89.30      | 177.70               | 6,090.64        | 9,466.63      | -3,245.37     | 30.44         | 3,245.51         | 2.21                | 406,171.93         | 746,140.54        |
| 12,563.00    | 89.00      | 177.90               | 6,092.06        | 9,468.06      | -3,341.29     | 34.13         | 3,341.46         | 0.38                | 406,076.01         | 746,144.23        |
| 12,658.00    | 89.70      | 178.80               | 6,093.14        | 9,469.13      | -3,436.25     | 36.86         | 3,436.43         | 1.20                | 405,981.05         | 746,146.96        |
| 12,754.00    | 88.70      | 178.60               | 6,094.48        | 9,470.47      | -3,532.21     | 39.04         | 3,532.41         | 1.06                | 405,885.09         | 746,149.14        |
| 12,849.00    | 88.30      | 178.80               | 6,096.97        | 9,472.96      | -3,627.15     | 41.19         | 3,627.36         | 0.47                | 405,790.15         | 746,151.29        |
| 12,945.00    | 89.10      | 179.20               | 6,099.15        | 9,475.14      | -3,723.11     | 42.87         | 3,723.33         | 0.93                | 405,694.19         | 746,152.97        |
| 13,041.00    | 89.90      | 180.00               | 6,099.98        | 9,475.98      | -3,819.11     | 43.54         | 3,819.33         | 1.18                | 405,598.19         | 746,153.64        |
| 13,137.00    | 89.60      | 180.50               | 6,100.40        | 9,476.40      | -3,915.10     | 43.12         | 3,915.32         | 0.61                | 405,502.20         | 746,153.22        |
| 13,233.00    | 89.40      | 181.00               | 6,101.24        | 9,477.23      | -4,011.09     | 41.86         | 4,011.29         | 0.56                | 405,406.21         | 746,151.96        |
| 13,328.00    | 88.40      | 181.00               | 6,103.06        | 9,479.06      | -4,106.06     | 40.21         | 4,106.25         | 1.05                | 405,311.24         | 746,150.31        |
| 13,424.00    | 88.30      | 181.50               | 6,105.83        | 9,481.82      | -4,201.99     | 38.11         | 4,202.16         | 0.53                | 405,215.31         | 746,148.21        |

Phoenix Technology Services  
EOG Resources



|                  |                        |                                     |                                                        |
|------------------|------------------------|-------------------------------------|--------------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Caballo 23 Fed. 6H                                |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| <b>Site:</b>     | Caballo 23 Federal     | <b>MD Reference:</b>                | Well @ 3375 99usft (Original Well Elev + 30' KB Cactus |
| <b>Well:</b>     | Caballo 23 Fed 6H      | <b>North Reference:</b>             | Grid                                                   |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                      |
| <b>Design:</b>   | Wellbore #1            | <b>Database:</b>                    | GCR DB v5000                                           |

| MD<br>(usft)                   | Inc.<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------------------------|-------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 13,520.00                      | 89.60       | 181.30               | 6,107.59        | 9,483.58      | -4,297.95     | 35.77         | 4,298.10         | 1.37                | 405,119.35         | 746,145.87        |
| 13,616.00                      | 90.20       | 179.80               | 6,107.76        | 9,483.75      | -4,393.94     | 34.85         | 4,394.08         | 1.68                | 405,023.36         | 746,144.95        |
| 13,712.00                      | 89.50       | 179.10               | 6,108.01        | 9,484.00      | -4,489.93     | 35.77         | 4,490.08         | 1.03                | 404,927.37         | 746,145.87        |
| 13,807.00                      | 90.50       | 180.10               | 6,108.01        | 9,484.00      | -4,584.93     | 36.43         | 4,585.07         | 1.49                | 404,832.37         | 746,146.53        |
| 13,903.00                      | 90.00       | 180.20               | 6,107.59        | 9,483.58      | -4,680.93     | 36.18         | 4,681.07         | 0.53                | 404,736.37         | 746,146.28        |
| 13,999.00                      | 89.70       | 180.30               | 6,107.84        | 9,483.83      | -4,776.93     | 35.76         | 4,777.06         | 0.33                | 404,640.37         | 746,145.86        |
| 14,062.00                      | 89.30       | 180.70               | 6,108.39        | 9,484.38      | -4,839.92     | 35.21         | 4,840.05         | 0.90                | 404,577.38         | 746,145.31        |
| <b>Last Phoenix MWD Survey</b> |             |                      |                 |               |               |               |                  |                     |                    |                   |
| 14,123.00                      | 89.30       | 180.70               | 6,109.13        | 9,485.13      | -4,900.91     | 34.47         | 4,901.03         | 0.00                | 404,516.39         | 746,144.57        |
| <b>Projection to TD</b>        |             |                      |                 |               |               |               |                  |                     |                    |                   |

| Design Annotations          |                             |                   |                 |                          |
|-----------------------------|-----------------------------|-------------------|-----------------|--------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                          |
| 1,095.36                    | 1,095.33                    | 3.04              | -2.45           | Last Gyro Survey         |
| 1,280.00                    | 1,279.95                    | 2.63              | -4.86           | First Phoenix MWD Survey |
| 14,062.00                   | 9,484.38                    | -4,839.92         | 35.21           | Last Phoenix MWD Survey  |
| 14,123.00                   | 9,485.13                    | -4,900.91         | 34.47           | Projection to TD         |

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