

## EOG Resources

Lea County, NM (Nad27)  
Cholla 18 Federal Com  
Cholla 18 Fed. Com 1H  
Wellbore #1

HOBBS OCD

JAN 24 2012

RECEIVED

Design: Wellbore #1

## EOG Resources

13 January, 2012



PHOENIX  
TECHNOLOGY SERVICES

JAN 24 2012

Phoenix Technology Services  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Cholla 18 Fed. Com 1H                       |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | WELL @ 3889 70usft (Original Well Elev + 30' KB) |
| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889 70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed Com 1H   | <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>                    | IGCR DB v5000                                    |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, NM (Nad27)               |               |                |
| 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                  |     | Cholla 18 Federal Com |  |                               |  |
| Site Position:        |     | Northing:             |  | 635,199.80 usft               |  |
| From:                 | Map | Easting:              |  | 696,442.50 usft               |  |
| Position Uncertainty: |     | Slot Radius:          |  | 13-3/16 "                     |  |
|                       |     |                       |  | Latitude: 32° 44' 40.6683 N   |  |
|                       |     |                       |  | Longitude: 103° 41' 39.9313 W |  |
|                       |     |                       |  | Grid Convergence: 0.35 °      |  |

|                      |                      |           |                     |                 |               |                    |
|----------------------|----------------------|-----------|---------------------|-----------------|---------------|--------------------|
| Well                 | Cholla 18 Fed Com 1H |           |                     |                 |               |                    |
| Well Position        | +N-S                 | 0.00 usft | Northing:           | 635,199.80 usft | Latitude:     | 32° 44' 40.6683 N  |
|                      | +E-W                 | 0.00 usft | Easting:            | 696,442.50 usft | Longitude:    | 103° 41' 39.9313 W |
| Position Uncertainty |                      | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,859.70 usft      |

|           |             |             |                    |                  |                        |
|-----------|-------------|-------------|--------------------|------------------|------------------------|
| Wellbore  |             | Wellbore #1 |                    |                  |                        |
| Magnetics | Model Name  | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2010_14 | 12/06/11    | 7.62               | 60.64            | 48,866                 |

|                   |  |                  |  |        |             |        |  |               |  |      |  |
|-------------------|--|------------------|--|--------|-------------|--------|--|---------------|--|------|--|
| Design            |  |                  |  |        | Wellbore #1 |        |  |               |  |      |  |
| Audit Notes:      |  |                  |  |        |             |        |  |               |  |      |  |
| Version:          |  | 1 0              |  | Phase: |             | ACTUAL |  | Tie On Depth: |  | 0 00 |  |
| Vertical Section: |  | Depth From (TVD) |  | +N/-S  |             | +E/-W  |  | Direction     |  |      |  |
|                   |  | (usft)           |  | (usft) |             | (usft) |  | (°)           |  |      |  |
|                   |  | 0.00             |  | 0 00   |             | 0.00   |  | 273.53        |  |      |  |

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| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889 70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed. Com 1H  | <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                                     |

| Survey Program |           | Date                                 | 01/13/12  |                |  |
|----------------|-----------|--------------------------------------|-----------|----------------|--|
| From (usft)    | To (usft) | Survey (Wellbore)                    | Tool Name | Description    |  |
| 100.00         | 7,947.00  | Phoenix MWD Surveys (Wellbore #1)    | MWD       | MWD - Standard |  |
| 8,041.00       | 12,900.00 | Phoenix ST MWD Surveys (Wellbore #1) | MWD       | MWD - Standard |  |

| MD (usft)                       | Inc (°) | Azi (azimuth) (°) | TVDSS (usft) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) | Northing (usft) | Easting (usft) |
|---------------------------------|---------|-------------------|--------------|------------|------------|------------|---------------|------------------|-----------------|----------------|
| 0.00                            | 0.00    | 0.00              | -3,889.70    | 0.00       | 0.00       | 0.00       | 0.00          | 0.00             | 635,199.80      | 696,442.50     |
| 100.00                          | 0.28    | 275.41            | -3,789.70    | 100.00     | 0.02       | -0.24      | 0.24          | 0.28             | 635,199.82      | 696,442.26     |
| 200.00                          | 0.41    | 278.52            | -3,689.70    | 200.00     | 0.10       | -0.84      | 0.84          | 0.13             | 635,199.90      | 696,441.66     |
| 300.00                          | 0.29    | 272.59            | -3,589.70    | 300.00     | 0.16       | -1.45      | 1.45          | 0.13             | 635,199.96      | 696,441.05     |
| 400.00                          | 0.36    | 277.54            | -3,489.71    | 399.99     | 0.22       | -2.01      | 2.02          | 0.08             | 635,200.02      | 696,440.49     |
| 500.00                          | 0.15    | 258.42            | -3,389.71    | 499.99     | 0.23       | -2.45      | 2.46          | 0.22             | 635,200.03      | 696,440.05     |
| 600.00                          | 0.47    | 311.19            | -3,289.71    | 599.99     | 0.47       | -2.89      | 2.91          | 0.40             | 635,200.27      | 696,439.61     |
| 700.00                          | 0.42    | 293.24            | -3,189.71    | 699.99     | 0.89       | -3.53      | 3.58          | 0.15             | 635,200.69      | 696,438.97     |
| 800.00                          | 0.28    | 294.73            | -3,089.71    | 799.99     | 1.14       | -4.09      | 4.15          | 0.14             | 635,200.94      | 696,438.41     |
| 900.00                          | 0.44    | 254.25            | -2,989.71    | 899.99     | 1.13       | -4.68      | 4.74          | 0.29             | 635,200.93      | 696,437.82     |
| 1,000.00                        | 0.29    | 294.34            | -2,889.72    | 999.98     | 1.13       | -5.28      | 5.34          | 0.29             | 635,200.93      | 696,437.22     |
| 1,100.00                        | 0.26    | 277.78            | -2,789.72    | 1,099.98   | 1.27       | -5.74      | 5.81          | 0.08             | 635,201.07      | 696,436.76     |
| 1,200.00                        | 0.28    | 297.36            | -2,689.72    | 1,199.98   | 1.41       | -6.18      | 6.26          | 0.09             | 635,201.21      | 696,436.32     |
| 1,300.00                        | 0.40    | 284.77            | -2,589.72    | 1,299.98   | 1.61       | -6.74      | 6.82          | 0.14             | 635,201.41      | 696,435.76     |
| <b>Last Gyro Survey</b>         |         |                   |              |            |            |            |               |                  |                 |                |
| 1,395.00                        | 0.21    | 314.35            | -2,494.72    | 1,394.98   | 1.82       | -7.18      | 7.28          | 0.25             | 635,201.62      | 696,435.32     |
| <b>First Phoenix MWD Survey</b> |         |                   |              |            |            |            |               |                  |                 |                |
| 1,526.00                        | 0.30    | 341.60            | -2,363.72    | 1,525.98   | 2.31       | -7.46      | 7.59          | 0.11             | 635,202.11      | 696,435.04     |
| 1,716.00                        | 0.10    | 13.30             | -2,173.72    | 1,715.98   | 2.95       | -7.58      | 7.75          | 0.12             | 635,202.75      | 696,434.92     |
| 1,905.00                        | 0.40    | 67.90             | -1,984.73    | 1,904.97   | 3.36       | -6.93      | 7.12          | 0.19             | 635,203.16      | 696,435.57     |
| 2,097.00                        | 0.70    | 69.10             | -1,792.74    | 2,096.96   | 4.03       | -5.21      | 5.45          | 0.16             | 635,203.83      | 696,437.29     |
| 2,286.00                        | 1.30    | 81.80             | -1,603.76    | 2,285.94   | 4.74       | -2.01      | 2.30          | 0.34             | 635,204.54      | 696,440.49     |

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| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed Com 1H   | <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                                     |

| 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) |  |
| 2,478.00     | 0.80       | 122.60               | -1,411.80       | 2,477.90      | 4.33          | 1.27          | -1.00            | 0.45                | 635,204.13         | 696,443.77        |  |
| 2,669.00     | 0.70       | 122.20               | -1,220.81       | 2,668.89      | 2.99          | 3.38          | -3.19            | 0.05                | 635,202.79         | 696,445.88        |  |
| 2,860.00     | 0.70       | 103.50               | -1,029.83       | 2,859.87      | 2.10          | 5.50          | -5.36            | 0.12                | 635,201.90         | 696,448.00        |  |
| 2,997.00     | 0.40       | 81.60                | -892.83         | 2,996.87      | 1.97          | 6.79          | -6.66            | 0.26                | 635,201.77         | 696,449.29        |  |
| 3,172.00     | 1.00       | 294.30               | -717.84         | 3,171.86      | 2.69          | 6.00          | -5.83            | 0.77                | 635,202.49         | 696,448.50        |  |
| 3,363.00     | 0.70       | 274.60               | -526.86         | 3,362.84      | 3.47          | 3.32          | -3.10            | 0.22                | 635,203.27         | 696,445.82        |  |
| 3,554.00     | 0.80       | 267.80               | -335.88         | 3,553.82      | 3.51          | 0.83          | -0.61            | 0.07                | 635,203.31         | 696,443.33        |  |
| 3,746.00     | 1.00       | 271.90               | -143.90         | 3,745.80      | 3.52          | -2.19         | 2.40             | 0.11                | 635,203.32         | 696,440.31        |  |
| 3,936.00     | 1.10       | 267.60               | 46.07           | 3,935.77      | 3.49          | -5.67         | 5.87             | 0.07                | 635,203.29         | 696,436.83        |  |
| 4,128.00     | 0.90       | 279.80               | 238.04          | 4,127.74      | 3.67          | -8.99         | 9.20             | 0.15                | 635,203.47         | 696,433.51        |  |
| 4,319.00     | 1.00       | 285.90               | 429.01          | 4,318.71      | 4.39          | -12.08        | 12.32            | 0.07                | 635,204.19         | 696,430.42        |  |
| 4,510.00     | 1.10       | 278.70               | 619.98          | 4,509.68      | 5.12          | -15.49        | 15.78            | 0.09                | 635,204.92         | 696,427.01        |  |
| 4,701.00     | 1.10       | 279.65               | 810.95          | 4,700.65      | 5.70          | -19.11        | 19.42            | 0.01                | 635,205.50         | 696,423.39        |  |
| 4,892.00     | 0.60       | 338.90               | 1,001.93        | 4,891.63      | 6.94          | -21.28        | 21.66            | 0.50                | 635,206.74         | 696,421.22        |  |
| 5,083.00     | 0.40       | 331.60               | 1,192.92        | 5,082.62      | 8.46          | -21.95        | 22.43            | 0.11                | 635,208.26         | 696,420.55        |  |
| 5,274.00     | 0.50       | 315.40               | 1,383.91        | 5,273.61      | 9.64          | -22.86        | 23.41            | 0.08                | 635,209.44         | 696,419.64        |  |
| 5,465.00     | 0.80       | 287.70               | 1,574.90        | 5,464.60      | 10.64         | -24.71        | 25.32            | 0.22                | 635,210.44         | 696,417.79        |  |
| 5,656.00     | 0.30       | 29.40                | 1,765.89        | 5,655.59      | 11.48         | -25.74        | 26.40            | 0.48                | 635,211.28         | 696,416.76        |  |
| 5,847.00     | 0.40       | 3.50                 | 1,956.89        | 5,846.59      | 12.59         | -25.45        | 26.18            | 0.10                | 635,212.39         | 696,417.05        |  |
| 6,038.00     | 0.60       | 301.90               | 2,147.89        | 6,037.59      | 13.78         | -26.26        | 27.06            | 0.28                | 635,213.58         | 696,416.24        |  |
| 6,229.00     | 0.20       | 278.30               | 2,338.88        | 6,228.58      | 14.36         | -27.44        | 28.27            | 0.22                | 635,214.16         | 696,415.06        |  |
| 6,420.00     | 0.50       | 236.60               | 2,529.88        | 6,419.58      | 13.95         | -28.46        | 29.27            | 0.20                | 635,213.75         | 696,414.04        |  |
| 6,611.00     | 1.10       | 220.70               | 2,720.86        | 6,610.56      | 12.10         | -30.35        | 31.04            | 0.33                | 635,211.90         | 696,412.15        |  |
| 6,802.00     | 0.40       | 239.30               | 2,911.84        | 6,801.54      | 10.37         | -32.12        | 32.70            | 0.38                | 635,210.17         | 696,410.38        |  |
| 6,993.00     | 0.30       | 236.20               | 3,102.84        | 6,992.54      | 9.75          | -33.11        | 33.65            | 0.05                | 635,209.55         | 696,409.39        |  |
| 7,184.00     | 0.50       | 47.10                | 3,293.83        | 7,183.53      | 10.04         | -32.92        | 33.47            | 0.42                | 635,209.84         | 696,409.58        |  |
| 7,375.00     | 0.20       | 48.50                | 3,484.83        | 7,374.53      | 10.82         | -32.06        | 32.66            | 0.16                | 635,210.62         | 696,410.44        |  |

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| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889 70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed. Com 1H  | <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) |
| 7,565.00     | 0 00       | 213 90               | 3,674.83        | 7,564.53      | 11 04         | -31 81        | 32 43            | 0 11                | 635,210.84         | 696,410.69        |
| 7,756.00     | 1 00       | 159.40               | 3,865.82        | 7,755.52      | 9.48          | -31.22        | 31 75            | 0 52                | 635,209.28         | 696,411.28        |
| 7,947.00     | 0 90       | 172.20               | 4,056.79        | 7,946.49      | 6.44          | -30.43        | 30.77            | 0 12                | 635,206.24         | 696,412.07        |
| 8,063.00     | 8 20       | 276.70               | 4,172.41        | 8,062.11      | 6.50          | -38.54        | 38.87            | 7 30                | 635,206.30         | 696,403.96        |
| 8,094.00     | 14 90      | 282 00               | 4,202.76        | 8,092.46      | 7.59          | -44.64        | 45.02            | 21.86               | 635,207.39         | 696,397.86        |
| 8,126.00     | 20.50      | 283 10               | 4,233.23        | 8,122.93      | 9.72          | -54.13        | 54.63            | 17 53               | 635,209.52         | 696,388.37        |
| 8,158.00     | 25 20      | 280 20               | 4,262.72        | 8,152.42      | 12 19         | -66.30        | 66 92            | 15.10               | 635,211.99         | 696,376.20        |
| 8,190.00     | 29 10      | 276.60               | 4,291.19        | 8,180.89      | 14.30         | -80 74        | 81 47            | 13.22               | 635,214.10         | 696,361.76        |
| 8,222.00     | 31.20      | 273.70               | 4,318.86        | 8,208.56      | 15 72         | -96 74        | 97 53            | 7.98                | 635,215.52         | 696,345.76        |
| 8,253.00     | 33 00      | 271.90               | 4,345.12        | 8,234.82      | 16 52         | -113 20       | 114 00           | 6.57                | 635,216.32         | 696,329.30        |
| 8,285.00     | 36.00      | 270 50               | 4,371.49        | 8,261.19      | 16 89         | -131.31       | 132 11           | 9.70                | 635,216.69         | 696,311 19        |
| 8,317.00     | 38 90      | 269 40               | 4,396.89        | 8,286.59      | 16 87         | -150 77       | 151.52           | 9.30                | 635,216.67         | 696,291 73        |
| 8,349.00     | 41.20      | 268 50               | 4,421.38        | 8,311 08      | 16.49         | -171 36       | 172 05           | 7 41                | 635,216 29         | 696,271.14        |
| 8,380 00     | 44 40      | 269 20               | 4,444 13        | 8,333.83      | 16.07         | -192.41       | 193 03           | 10.44               | 635,215 87         | 696,250.09        |
| 8,412.00     | 46 60      | 270.30               | 4,466.55        | 8,356 25      | 15.98         | -215 23       | 215.81           | 7.30                | 635,215 78         | 696,227.27        |
| 8,444.00     | 48 70      | 271.20               | 4,488.11        | 8,377 81      | 16.29         | -238 88       | 239.43           | 6.88                | 635,216 09         | 696,203.62        |
| 8,476.00     | 51 90      | 270.20               | 4,508 55        | 8,398.25      | 16.58         | -263.49       | 264 01           | 10 28               | 635,216.38         | 696,179 01        |
| 8,508 00     | 54.70      | 269.50               | 4,527 67        | 8,417.37      | 16 51         | -289.15       | 289 62           | 8.92                | 635,216.31         | 696,153.35        |
| 8,539.00     | 57.00      | 268.80               | 4,545 07        | 8,434 77      | 16.13         | -314 80       | 315 19           | 7.65                | 635,215.93         | 696,127 70        |
| 8,571 00     | 58 50      | 268.80               | 4,562 15        | 8,451.85      | 15 56         | -341.85       | 342.16           | 4 69                | 635,215.36         | 696,100.65        |
| 8,603 00     | 59 80      | 269 50               | 4,578.56        | 8,468.26      | 15 16         | -369.32       | 369.55           | 4.48                | 635,214.96         | 696,073.18        |
| 8,634 00     | 61 60      | 271.00               | 4,593 73        | 8,483 43      | 15.28         | -396.35       | 396.54           | 7 18                | 635,215.08         | 696,046.15        |
| 8,666 00     | 64 10      | 271 90               | 4,608.33        | 8,498.03      | 16 00         | -424.82       | 425.00           | 8.20                | 635,215.80         | 696,017.68        |
| 8,698 00     | 66 80      | 272.40               | 4,621.62        | 8,511.32      | 17.10         | -453 90       | 454.09           | 8.56                | 635,216.90         | 695,988 60        |
| 8,730.00     | 69 90      | 273.80               | 4,633.43        | 8,523 13      | 18 71         | -483 59       | 483.83           | 10.51               | 635,218.51         | 695,958 91        |
| 8,761 00     | 72.60      | 274 90               | 4,643.39        | 8,533 09      | 20 94         | -512.86       | 513 18           | 9 34                | 635,220 74         | 695,929.64        |
| 8,793.00     | 76.00      | 274 90               | 4,652.05        | 8,541.75      | 23.57         | -543.55       | 543 97           | 10 62               | 635,223.37         | 695,898 95        |

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| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Cholla 18 Fed. Com 1H                       |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed Com 1H   | <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                                     |

| 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) |
| 8,839.00     | 80.90      | 275.40               | 4,661.26        | 8,550.96      | 27.61         | -588.42       | 589.01           | 10.71               | 635,227.41         | 695,854.08        |
| 8,871.00     | 84.50      | 275.40               | 4,665.32        | 8,555.02      | 30.60         | -620.02       | 620.72           | 11.25               | 635,230.40         | 695,822.48        |
| 8,902.00     | 87.50      | 276.00               | 4,667.48        | 8,557.18      | 33.67         | -650.78       | 651.62           | 9.87                | 635,233.47         | 695,791.72        |
| 8,934.00     | 90.20      | 276.60               | 4,668.13        | 8,557.83      | 37.18         | -682.58       | 683.58           | 8.64                | 635,236.98         | 695,759.92        |
| 8,966.00     | 91.60      | 276.70               | 4,667.62        | 8,557.32      | 40.89         | -714.36       | 715.52           | 4.39                | 635,240.69         | 695,728.14        |
| 8,997.00     | 92.00      | 276.80               | 4,666.65        | 8,556.35      | 44.53         | -745.13       | 746.46           | 1.33                | 635,244.33         | 695,697.37        |
| 9,093.00     | 92.50      | 276.40               | 4,662.88        | 8,552.58      | 55.55         | -840.42       | 842.25           | 0.67                | 635,255.35         | 695,602.08        |
| 9,188.00     | 92.40      | 274.60               | 4,658.82        | 8,548.52      | 64.65         | -934.89       | 937.10           | 1.90                | 635,264.45         | 695,507.61        |
| 9,284.00     | 92.80      | 274.40               | 4,654.46        | 8,544.16      | 72.17         | -1,030.50     | 1,032.99         | 0.47                | 635,271.97         | 695,412.00        |
| 9,379.00     | 93.50      | 274.50               | 4,649.24        | 8,538.94      | 79.53         | -1,125.07     | 1,127.83         | 0.74                | 635,279.33         | 695,317.43        |
| 9,475.00     | 92.60      | 273.40               | 4,644.14        | 8,533.84      | 86.14         | -1,220.70     | 1,223.69         | 1.48                | 635,285.94         | 695,221.80        |
| 9,571.00     | 92.10      | 273.30               | 4,640.20        | 8,529.90      | 91.74         | -1,316.46     | 1,319.61         | 0.53                | 635,291.54         | 695,126.04        |
| 9,666.00     | 90.80      | 272.70               | 4,637.80        | 8,527.50      | 96.71         | -1,411.29     | 1,414.57         | 1.51                | 635,296.51         | 695,031.21        |
| 9,762.00     | 91.40      | 272.40               | 4,635.95        | 8,525.65      | 100.98        | -1,507.18     | 1,510.54         | 0.70                | 635,300.78         | 694,935.32        |
| 9,857.00     | 90.40      | 272.60               | 4,634.46        | 8,524.16      | 105.13        | -1,602.08     | 1,605.51         | 1.07                | 635,304.93         | 694,840.42        |
| 9,971.00     | 90.60      | 272.10               | 4,633.47        | 8,523.17      | 109.80        | -1,715.98     | 1,719.48         | 0.47                | 635,309.60         | 694,726.52        |
| 10,066.00    | 90.70      | 272.20               | 4,632.39        | 8,522.09      | 113.36        | -1,810.90     | 1,814.45         | 0.15                | 635,313.16         | 694,631.60        |
| 10,161.00    | 90.50      | 272.00               | 4,631.39        | 8,521.09      | 116.85        | -1,905.84     | 1,909.41         | 0.30                | 635,316.65         | 694,536.66        |
| 10,257.00    | 91.20      | 273.30               | 4,629.97        | 8,519.67      | 121.28        | -2,001.72     | 2,005.39         | 1.54                | 635,321.08         | 694,440.78        |
| 10,353.00    | 91.10      | 273.10               | 4,628.04        | 8,517.74      | 126.64        | -2,097.55     | 2,101.37         | 0.23                | 635,326.44         | 694,344.95        |
| 10,448.00    | 92.00      | 273.90               | 4,625.47        | 8,515.17      | 132.44        | -2,192.34     | 2,196.33         | 1.27                | 635,332.24         | 694,250.16        |
| 10,543.00    | 91.70      | 273.90               | 4,622.41        | 8,512.11      | 138.90        | -2,287.07     | 2,291.28         | 0.32                | 635,338.70         | 694,155.43        |
| 10,639.00    | 92.80      | 274.30               | 4,618.64        | 8,508.34      | 145.75        | -2,382.75     | 2,387.20         | 1.22                | 635,345.55         | 694,059.75        |
| 10,734.00    | 93.00      | 274.20               | 4,613.83        | 8,503.53      | 152.79        | -2,477.36     | 2,482.07         | 0.24                | 635,352.59         | 693,965.14        |
| 10,829.00    | 93.40      | 273.90               | 4,608.53        | 8,498.23      | 159.48        | -2,571.98     | 2,576.92         | 0.53                | 635,359.28         | 693,870.52        |
| 10,925.00    | 91.80      | 273.70               | 4,604.17        | 8,493.87      | 165.84        | -2,667.67     | 2,672.82         | 1.68                | 635,365.64         | 693,774.83        |
| 11,020.00    | 92.00      | 273.60               | 4,601.02        | 8,490.72      | 171.88        | -2,762.42     | 2,767.76         | 0.24                | 635,371.68         | 693,680.08        |

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|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Cholla 18 Fed Com 1H                        |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| <b>Site:</b>     | Cholla 18 Federal Com  | <b>MD Reference:</b>                | WELL @ 3889 70usft (Original Well Elev + 30' KB) |
| <b>Well:</b>     | Cholla 18 Fed. Com 1H  | <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) |  |
| 11,116.00               | 92.40      | 273.30               | 4,597.34        | 8,487.04      | 177.66        | -2,858.18     | 2,863.69         | 0.52                | 635,377.46         | 693,584.32        |  |
| 11,211.00               | 93.00      | 272.20               | 4,592.86        | 8,482.56      | 182.21        | -2,952.96     | 2,958.58         | 1.32                | 635,382.01         | 693,489.54        |  |
| 11,307.00               | 91.90      | 273.40               | 4,588.76        | 8,478.46      | 186.90        | -3,048.75     | 3,054.48         | 1.69                | 635,386.70         | 693,393.75        |  |
| 11,402.00               | 92.00      | 273.10               | 4,585.53        | 8,475.23      | 192.28        | -3,143.55     | 3,149.42         | 0.33                | 635,392.08         | 693,298.95        |  |
| 11,498.00               | 92.70      | 273.10               | 4,581.59        | 8,471.29      | 197.47        | -3,239.32     | 3,245.34         | 0.73                | 635,397.27         | 693,203.18        |  |
| 11,593.00               | 91.40      | 273.60               | 4,578.19        | 8,467.89      | 203.01        | -3,334.10     | 3,340.27         | 1.47                | 635,402.81         | 693,108.40        |  |
| 11,688.00               | 91.50      | 273.20               | 4,575.79        | 8,465.49      | 208.65        | -3,428.90     | 3,435.24         | 0.43                | 635,408.45         | 693,013.60        |  |
| 11,784.00               | 91.70      | 272.90               | 4,573.11        | 8,462.81      | 213.75        | -3,524.73     | 3,531.20         | 0.38                | 635,413.55         | 692,917.77        |  |
| 11,879.00               | 92.00      | 272.40               | 4,570.04        | 8,459.74      | 218.14        | -3,619.58     | 3,626.14         | 0.61                | 635,417.94         | 692,822.92        |  |
| 11,975.00               | 91.70      | 273.00               | 4,566.94        | 8,456.64      | 222.66        | -3,715.42     | 3,722.08         | 0.70                | 635,422.46         | 692,727.08        |  |
| 11,990.00               | 91.62      | 273.05               | 4,566.51        | 8,456.21      | 223.45        | -3,730.39     | 3,737.07         | 0.61                | 635,423.25         | 692,712.11        |  |
| Top of 1st BS Sand      |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 12,071.00               | 91.20      | 273.30               | 4,564.51        | 8,454.21      | 227.94        | -3,811.24     | 3,818.05         | 0.61                | 635,427.74         | 692,631.26        |  |
| 12,167.00               | 88.90      | 273.30               | 4,564.43        | 8,454.13      | 233.46        | -3,907.08     | 3,914.04         | 2.40                | 635,433.26         | 692,535.42        |  |
| 12,262.00               | 88.80      | 273.20               | 4,566.34        | 8,456.04      | 238.85        | -4,001.91     | 4,009.02         | 0.15                | 635,438.65         | 692,440.59        |  |
| 12,357.00               | 88.10      | 273.40               | 4,568.90        | 8,458.60      | 244.31        | -4,096.71     | 4,103.98         | 0.77                | 635,444.11         | 692,345.79        |  |
| 12,453.00               | 87.80      | 273.20               | 4,572.34        | 8,462.04      | 249.84        | -4,192.49     | 4,199.92         | 0.38                | 635,449.64         | 692,250.01        |  |
| 12,548.00               | 87.10      | 272.80               | 4,576.57        | 8,466.27      | 254.80        | -4,287.27     | 4,294.82         | 0.85                | 635,454.60         | 692,155.23        |  |
| 12,643.00               | 88.10      | 273.50               | 4,580.54        | 8,470.24      | 260.02        | -4,382.04     | 4,389.73         | 1.28                | 635,459.82         | 692,060.46        |  |
| 12,739.00               | 88.10      | 273.10               | 4,583.73        | 8,473.43      | 265.54        | -4,477.83     | 4,485.68         | 0.42                | 635,465.34         | 691,964.67        |  |
| 12,834.00               | 87.50      | 272.80               | 4,587.37        | 8,477.07      | 270.43        | -4,572.63     | 4,580.60         | 0.71                | 635,470.23         | 691,869.87        |  |
| 12,838.00               | 87.30      | 272.70               | 4,587.56        | 8,477.26      | 270.62        | -4,576.62     | 4,584.60         | 5.59                | 635,470.42         | 691,865.88        |  |
| Last Phoenix MWD Survey |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 12,900.00               | 87.30      | 272.70               | 4,590.48        | 8,480.18      | 273.54        | -4,638.48     | 4,646.52         | 0.00                | 635,473.34         | 691,804.02        |  |
| Projection to TD        |            |                      |                 |               |               |               |                  |                     |                    |                   |  |

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|           |                        |                              |                                                  |
|-----------|------------------------|------------------------------|--------------------------------------------------|
| Company:  | EOG Resources          | Local Co-ordinate Reference: | Well Cholla 18 Fed. Com 1H                       |
| Project:  | Lea County, NM (Nad27) | TVD Reference:               | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| Site:     | Cholla 18 Federal Com  | MD Reference:                | WELL @ 3889.70usft (Original Well Elev + 30' KB) |
| Well:     | Cholla 18 Fed. Com 1H  | North Reference:             | Grid                                             |
| Wellbore: | Wellbore #1            | Survey Calculation Method:   | Minimum Curvature                                |
| Design:   | Wellbore #1            | Database:                    | GCR DB v5000                                     |

| Formations            |                       |                    |           |         |                   |
|-----------------------|-----------------------|--------------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name               | Lithology | Dip (°) | Dip Direction (°) |
| 11,990.00             | 8,456.21              | Top of 1st BS Sand |           | 0.00    |                   |

| Design Annotations    |                       |                   |             |                          |  |
|-----------------------|-----------------------|-------------------|-------------|--------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |             |                          |  |
|                       |                       | +N-S (usft)       | +E-W (usft) | Comment                  |  |
| 1,300.00              | 1,299.98              | 1.61              | -6.74       | Last Gyro Survey         |  |
| 1,395.00              | 1,394.98              | 1.82              | -7.18       | First Phoenix MWD Survey |  |
| 12,838.00             | 8,477.26              | 270.62            | -4,576.62   | Last Phoenix MWD Survey  |  |
| 12,900.00             | 8,480.18              | 273.54            | -4,638.48   | Projection to TD         |  |

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