

## EOG Resources

Lea County, NM (Nad27)  
Red Hills West 16 State  
Red Hills West 16 State 8H  
Wellbore #1

Plan: Plan #1 122111

## EOG Resources

21 December, 2011



30-025-40417

JAN 26 2012

**Phoenix Technology Services**  
EOG Resources



|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | EOG Resources              | <b>Local Co-ordinate Reference:</b> | Well Red Hills West 16 State 8H         |
| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

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

|                              |                         |                     |                 |                                    |
|------------------------------|-------------------------|---------------------|-----------------|------------------------------------|
| <b>Site</b>                  | Red Hills West 16 State |                     |                 |                                    |
| <b>Site Position:</b>        |                         | <b>Northing:</b>    | 382,382.50 usft | <b>Latitude:</b> 32° 2' 58.675 N   |
| <b>From:</b>                 | Map                     | <b>Easting:</b>     | 700,544.80 usft | <b>Longitude:</b> 103° 41' 9.818 W |
| <b>Position Uncertainty:</b> | 0.00 usft               | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> 0.34 °    |

|                             |                            |           |                            |                 |
|-----------------------------|----------------------------|-----------|----------------------------|-----------------|
| <b>Well</b>                 | Red Hills West 16 State 8H |           |                            |                 |
| <b>Well Position</b>        | +N/-S                      | 0.00 usft | <b>Northing:</b>           | 382,414.00 usft |
|                             | +E/-W                      | 0.00 usft | <b>Easting:</b>            | 704,611.00 usft |
| <b>Position Uncertainty</b> | 0.00 usft                  |           | <b>Wellhead Elevation:</b> | usft            |
|                             |                            |           | <b>Ground Level:</b>       | 3,227.90 usft   |

|                  |                   |                    |                        |                                   |
|------------------|-------------------|--------------------|------------------------|-----------------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                                   |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b>              |
|                  | IGRF2010_14       | 12/21/11           | 7.56                   | 59.99                             |
|                  |                   |                    |                        | <b>Field Strength (nT)</b> 48,449 |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1 122111                 |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 176.75               |

|                            |                  |                              |                  |                    |
|----------------------------|------------------|------------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>      | 12/21/11                     |                  |                    |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b>     | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 13,889.55        | Plan #1 122111 (Wellbore #1) | MWD              | MWD - Standard     |

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|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
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| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grd                                     |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

| Planned 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) |  |
| 0.00           | 0.00       | 0.00                 | -3,257.90       | 0.00          | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 100.00         | 0.00       | 0.00                 | -3,157.90       | 100.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 200.00         | 0.00       | 0.00                 | -3,057.90       | 200.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 300.00         | 0.00       | 0.00                 | -2,957.90       | 300.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 400.00         | 0.00       | 0.00                 | -2,857.90       | 400.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 500.00         | 0.00       | 0.00                 | -2,757.90       | 500.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 600.00         | 0.00       | 0.00                 | -2,657.90       | 600.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 700.00         | 0.00       | 0.00                 | -2,557.90       | 700.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 800.00         | 0.00       | 0.00                 | -2,457.90       | 800.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 900.00         | 0.00       | 0.00                 | -2,357.90       | 900.00        | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,000.00       | 0.00       | 0.00                 | -2,257.90       | 1,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,100.00       | 0.00       | 0.00                 | -2,157.90       | 1,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,200.00       | 0.00       | 0.00                 | -2,057.90       | 1,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,300.00       | 0.00       | 0.00                 | -1,957.90       | 1,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,400.00       | 0.00       | 0.00                 | -1,857.90       | 1,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,500.00       | 0.00       | 0.00                 | -1,757.90       | 1,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,600.00       | 0.00       | 0.00                 | -1,657.90       | 1,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,700.00       | 0.00       | 0.00                 | -1,557.90       | 1,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,800.00       | 0.00       | 0.00                 | -1,457.90       | 1,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 1,900.00       | 0.00       | 0.00                 | -1,357.90       | 1,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,000.00       | 0.00       | 0.00                 | -1,257.90       | 2,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,100.00       | 0.00       | 0.00                 | -1,157.90       | 2,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,200.00       | 0.00       | 0.00                 | -1,057.90       | 2,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,300.00       | 0.00       | 0.00                 | -957.90         | 2,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,400.00       | 0.00       | 0.00                 | -857.90         | 2,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,500.00       | 0.00       | 0.00                 | -757.90         | 2,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 2,600.00       | 0.00       | 0.00                 | -657.90         | 2,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |

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| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

**Planned 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) |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 2,700.00     | 0.00       | 0.00                 | -557.90         | 2,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 2,800.00     | 0.00       | 0.00                 | -457.90         | 2,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 2,900.00     | 0.00       | 0.00                 | -357.90         | 2,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,000.00     | 0.00       | 0.00                 | -257.90         | 3,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,100.00     | 0.00       | 0.00                 | -157.90         | 3,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,200.00     | 0.00       | 0.00                 | -57.90          | 3,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,300.00     | 0.00       | 0.00                 | 42.10           | 3,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,400.00     | 0.00       | 0.00                 | 142.10          | 3,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,500.00     | 0.00       | 0.00                 | 242.10          | 3,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,600.00     | 0.00       | 0.00                 | 342.10          | 3,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,700.00     | 0.00       | 0.00                 | 442.10          | 3,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,800.00     | 0.00       | 0.00                 | 542.10          | 3,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 3,900.00     | 0.00       | 0.00                 | 642.10          | 3,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,000.00     | 0.00       | 0.00                 | 742.10          | 4,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,100.00     | 0.00       | 0.00                 | 842.10          | 4,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,200.00     | 0.00       | 0.00                 | 942.10          | 4,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,300.00     | 0.00       | 0.00                 | 1,042.10        | 4,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,400.00     | 0.00       | 0.00                 | 1,142.10        | 4,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,500.00     | 0.00       | 0.00                 | 1,242.10        | 4,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,600.00     | 0.00       | 0.00                 | 1,342.10        | 4,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,700.00     | 0.00       | 0.00                 | 1,442.10        | 4,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,800.00     | 0.00       | 0.00                 | 1,542.10        | 4,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 4,900.00     | 0.00       | 0.00                 | 1,642.10        | 4,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 5,000.00     | 0.00       | 0.00                 | 1,742.10        | 5,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 5,100.00     | 0.00       | 0.00                 | 1,842.10        | 5,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 5,200.00     | 0.00       | 0.00                 | 1,942.10        | 5,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |
| 5,300.00     | 0.00       | 0.00                 | 2,042.10        | 5,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |

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|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
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| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

| Planned Survey |            |                      |                |               |               |               |                  |                     |                    |                   |  |
|----------------|------------|----------------------|----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)   | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDS<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) |  |
| 5,400.00       | 0.00       | 0.00                 | 2,142.10       | 5,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 5,500.00       | 0.00       | 0.00                 | 2,242.10       | 5,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 5,600.00       | 0.00       | 0.00                 | 2,342.10       | 5,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 5,700.00       | 0.00       | 0.00                 | 2,442.10       | 5,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 5,800.00       | 0.00       | 0.00                 | 2,542.10       | 5,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 5,900.00       | 0.00       | 0.00                 | 2,642.10       | 5,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,000.00       | 0.00       | 0.00                 | 2,742.10       | 6,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,100.00       | 0.00       | 0.00                 | 2,842.10       | 6,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,200.00       | 0.00       | 0.00                 | 2,942.10       | 6,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,300.00       | 0.00       | 0.00                 | 3,042.10       | 6,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,400.00       | 0.00       | 0.00                 | 3,142.10       | 6,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,500.00       | 0.00       | 0.00                 | 3,242.10       | 6,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,600.00       | 0.00       | 0.00                 | 3,342.10       | 6,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,700.00       | 0.00       | 0.00                 | 3,442.10       | 6,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,800.00       | 0.00       | 0.00                 | 3,542.10       | 6,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 6,900.00       | 0.00       | 0.00                 | 3,642.10       | 6,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,000.00       | 0.00       | 0.00                 | 3,742.10       | 7,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,100.00       | 0.00       | 0.00                 | 3,842.10       | 7,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,200.00       | 0.00       | 0.00                 | 3,942.10       | 7,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,300.00       | 0.00       | 0.00                 | 4,042.10       | 7,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,400.00       | 0.00       | 0.00                 | 4,142.10       | 7,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,500.00       | 0.00       | 0.00                 | 4,242.10       | 7,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,600.00       | 0.00       | 0.00                 | 4,342.10       | 7,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,700.00       | 0.00       | 0.00                 | 4,442.10       | 7,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,800.00       | 0.00       | 0.00                 | 4,542.10       | 7,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 7,900.00       | 0.00       | 0.00                 | 4,642.10       | 7,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,000.00       | 0.00       | 0.00                 | 4,742.10       | 8,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | EOG Resources              | <b>Local Co-ordinate Reference:</b> | Well Red Hills West 16 State 8H         |
| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

| Planned 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) |  |
| 8,100.00                                | 0.00       | 0.00                 | 4,842.10        | 8,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,200.00                                | 0.00       | 0.00                 | 4,942.10        | 8,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,300.00                                | 0.00       | 0.00                 | 5,042.10        | 8,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,400.00                                | 0.00       | 0.00                 | 5,142.10        | 8,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,500.00                                | 0.00       | 0.00                 | 5,242.10        | 8,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,600.00                                | 0.00       | 0.00                 | 5,342.10        | 8,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,700.00                                | 0.00       | 0.00                 | 5,442.10        | 8,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| 8,772.54                                | 0.00       | 0.00                 | 5,514.64        | 8,772.54      | 0.00          | 0.00          | 0.00             | 0.00                | 382,414.00         | 704,611.00        |  |
| <b>Start Build 12.00</b>                |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 8,800.00                                | 3.30       | 176.75               | 5,542.08        | 8,799.98      | -0.79         | 0.04          | 0.79             | 12.00               | 382,413.21         | 704,611.04        |  |
| 8,900.00                                | 15.30      | 176.75               | 5,640.59        | 8,898.49      | -16.89        | 0.96          | 16.91            | 12.00               | 382,397.11         | 704,611.96        |  |
| 9,000.00                                | 27.30      | 176.75               | 5,733.59        | 8,991.49      | -53.08        | 3.01          | 53.17            | 12.00               | 382,360.92         | 704,614.01        |  |
| 9,100.00                                | 39.30      | 176.75               | 5,817.03        | 9,074.93      | -107.79       | 6.12          | 107.96           | 12.00               | 382,306.21         | 704,617.12        |  |
| 9,200.00                                | 51.30      | 176.75               | 5,887.24        | 9,145.14      | -178.62       | 10.14         | 178.91           | 12.00               | 382,235.38         | 704,621.14        |  |
| 9,300.00                                | 63.30      | 176.75               | 5,941.17        | 9,199.07      | -262.48       | 14.90         | 262.90           | 12.00               | 382,151.52         | 704,625.90        |  |
| 9,400.00                                | 75.30      | 176.75               | 5,976.46        | 9,234.36      | -355.70       | 20.19         | 356.27           | 12.00               | 382,058.30         | 704,631.19        |  |
| 9,500.00                                | 87.30      | 176.75               | 5,991.57        | 9,249.47      | -454.21       | 25.78         | 454.94           | 12.00               | 381,959.79         | 704,636.78        |  |
| 9,522.54                                | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -476.70       | 27.05         | 477.46           | 12.00               | 381,937.30         | 704,638.05        |  |
| <b>Start 4367.02 hold at 9522.54 MD</b> |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 9,600.00                                | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -554.04       | 31.44         | 554.93           | 0.00                | 381,859.96         | 704,642.44        |  |
| 9,700.00                                | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -653.88       | 37.11         | 654.93           | 0.00                | 381,760.12         | 704,648.11        |  |
| 9,800.00                                | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -753.72       | 42.78         | 754.93           | 0.00                | 381,660.28         | 704,653.78        |  |
| 9,900.00                                | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -853.56       | 48.44         | 854.93           | 0.00                | 381,560.44         | 704,659.44        |  |
| 10,000.00                               | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -953.40       | 54.11         | 954.93           | 0.00                | 381,460.60         | 704,665.11        |  |
| 10,100.00                               | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,053.23     | 59.77         | 1,054.93         | 0.00                | 381,360.77         | 704,670.77        |  |
| 10,200.00                               | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,153.07     | 65.44         | 1,154.93         | 0.00                | 381,260.93         | 704,676.44        |  |
| 10,300.00                               | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,252.91     | 71.11         | 1,254.93         | 0.00                | 381,161.09         | 704,682.11        |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | EOG Resources              | <b>Local Co-ordinate Reference:</b> | Well Red Hills West 16 State 8H         |
| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

**Planned 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) |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 10,400.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,352.75     | 76.77         | 1,354.93         | 0.00                | 381,061.25         | 704,687.77        |
| 10,500.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,452.59     | 82.44         | 1,454.93         | 0.00                | 380,961.41         | 704,693.44        |
| 10,600.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,552.43     | 88.11         | 1,554.93         | 0.00                | 380,861.57         | 704,699.11        |
| 10,700.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,652.27     | 93.77         | 1,654.93         | 0.00                | 380,761.73         | 704,704.77        |
| 10,800.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,752.11     | 99.44         | 1,754.93         | 0.00                | 380,661.89         | 704,710.44        |
| 10,900.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,851.95     | 105.10        | 1,854.93         | 0.00                | 380,562.05         | 704,716.10        |
| 11,000.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -1,951.79     | 110.77        | 1,954.93         | 0.00                | 380,462.21         | 704,721.77        |
| 11,100.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,051.63     | 116.44        | 2,054.93         | 0.00                | 380,362.37         | 704,727.44        |
| 11,200.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,151.47     | 122.10        | 2,154.93         | 0.00                | 380,262.53         | 704,733.10        |
| 11,300.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,251.31     | 127.77        | 2,254.93         | 0.00                | 380,162.69         | 704,738.77        |
| 11,400.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,351.15     | 133.44        | 2,354.93         | 0.00                | 380,062.85         | 704,744.44        |
| 11,500.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,450.99     | 139.10        | 2,454.93         | 0.00                | 379,963.01         | 704,750.10        |
| 11,600.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,550.82     | 144.77        | 2,554.93         | 0.00                | 379,863.18         | 704,755.77        |
| 11,700.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,650.66     | 150.43        | 2,654.93         | 0.00                | 379,763.34         | 704,761.43        |
| 11,800.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,750.50     | 156.10        | 2,754.93         | 0.00                | 379,663.50         | 704,767.10        |
| 11,900.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,850.34     | 161.77        | 2,854.93         | 0.00                | 379,563.66         | 704,772.77        |
| 12,000.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -2,950.18     | 167.43        | 2,954.93         | 0.00                | 379,463.82         | 704,778.43        |
| 12,100.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,050.02     | 173.10        | 3,054.93         | 0.00                | 379,363.98         | 704,784.10        |
| 12,200.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,149.86     | 178.77        | 3,154.93         | 0.00                | 379,264.14         | 704,789.77        |
| 12,300.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,249.70     | 184.43        | 3,254.93         | 0.00                | 379,164.30         | 704,795.43        |
| 12,400.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,349.54     | 190.10        | 3,354.93         | 0.00                | 379,064.46         | 704,801.10        |
| 12,500.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,449.38     | 195.76        | 3,454.93         | 0.00                | 378,964.62         | 704,806.76        |
| 12,600.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,549.22     | 201.43        | 3,554.93         | 0.00                | 378,864.78         | 704,812.43        |
| 12,700.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,649.06     | 207.10        | 3,654.93         | 0.00                | 378,764.94         | 704,818.10        |
| 12,800.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,748.90     | 212.76        | 3,754.93         | 0.00                | 378,665.10         | 704,823.76        |
| 12,900.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,848.74     | 218.43        | 3,854.93         | 0.00                | 378,565.26         | 704,829.43        |
| 13,000.00    | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -3,948.58     | 224.10        | 3,954.93         | 0.00                | 378,465.42         | 704,835.10        |

**Phoenix Technology Services**  
EOG Resources



|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | EOG Resources              | <b>Local Co-ordinate Reference:</b> | Well Red Hills West 16 State 8H         |
| <b>Project:</b>  | Lea County, NM (Nad27)     | <b>TVD Reference:</b>               | WELL @ 3257.90usft (Original Well Elev) |
| <b>Site:</b>     | Red Hills West 16 State    | <b>MD Reference:</b>                | WELL @ 3257.90usft (Original Well Elev) |
| <b>Well:</b>     | Red Hills West 16 State 8H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | Plan #1 122111             | <b>Database:</b>                    | GCR DB v5000                            |

| Planned 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) |  |
| 13,100.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,048.41     | 229.76        | 4,054.93         | 0.00                | 378,365.59         | 704,840.76        |  |
| 13,200.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,148.25     | 235.43        | 4,154.93         | 0.00                | 378,265.75         | 704,846.43        |  |
| 13,300.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,248.09     | 241.09        | 4,254.93         | 0.00                | 378,165.91         | 704,852.09        |  |
| 13,400.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,347.93     | 246.76        | 4,354.93         | 0.00                | 378,066.07         | 704,857.76        |  |
| 13,500.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,447.77     | 252.43        | 4,454.93         | 0.00                | 377,966.23         | 704,863.43        |  |
| 13,600.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,547.61     | 258.09        | 4,554.93         | 0.00                | 377,866.39         | 704,869.09        |  |
| 13,700.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,647.45     | 263.76        | 4,654.93         | 0.00                | 377,766.55         | 704,874.76        |  |
| 13,800.00      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,747.29     | 269.43        | 4,754.93         | 0.00                | 377,666.71         | 704,880.43        |  |
| 13,889.55      | 90.00      | 176.75               | 5,992.10        | 9,250.00      | -4,836.70     | 274.50        | 4,844.48         | 0.00                | 377,577.30         | 704,885.50        |  |
| TD at 13889.55 |            |                      |                 |               |               |               |                  |                     |                    |                   |  |

| Plan Annotations            |                             |                   |               |                                  |  |
|-----------------------------|-----------------------------|-------------------|---------------|----------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |               |                                  |  |
|                             |                             | N-S<br>(usft)     | E-W<br>(usft) | Comment                          |  |
| 8,772.54                    | 8,772.54                    | 0.00              | 0.00          | Start Build 12.00                |  |
| 9,522.54                    | 9,250.00                    | -476.70           | 27.05         | Start 4367.02 hold at 9522.54 MD |  |
| 13,889.55                   | 9,250.00                    | -4,836.70         | 274.50        | TD at 13889.55                   |  |

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