

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
June 19, 2008

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-025-40373                                                                        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name:<br>Brown Bear 36 State                                        |
| 8. Well Number<br>3H                                                                                |
| 9. OGRID Number<br>7377                                                                             |
| 10. Pool name or Wildcat<br>WC Red Hills; BS Upper Shale                                            |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS)

|                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Type of Well:<br>Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other                                                                                                              |
| 2. Name of Operator<br>EOG Resources, Inc.                                                                                                                                                                            |
| 3. Address of Operator<br>P.O. Box 2267 Midland, TX 79702                                                                                                                                                             |
| 4. Well Location<br>Unit Letter <u>N</u> : <u>220</u> feet from the <u>South</u> line and <u>1965</u> feet from the <u>West</u> line<br>Section <u>36</u> Township <u>25S</u> Range <u>33E</u> NMPM County <u>Lea</u> |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3320' GR                                                                                                                                                        |

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our APD for this well to reflect a change in the proposed  
SHL and BHL.

Attached please find a revised C-102 showing a SHL of 220' FSL & 1965' FWL, U/L N, 36-25S-33E, Lea Co.  
BHL of 230' FNL & 1630' FWL, U/L C, 36-25S-33E, Lea Co.

A revised directional plan is also attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 7/27/12

Type or print name Stan Wagner E-mail address: \_\_\_\_\_ PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE AUG 01 2012

Conditions of Approval (if any):

AUG 01 2012

**Permit Information:**

Well Name: Brown Bear 36 State No. 3H

**Location:**

SL: 220' FSL &amp; 1965' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL &amp; 1630' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

**Casing Program:**

| Hole Size | Interval      | Csg OD  | Weight | Grade   | Conn | DF <sub>min</sub> Collapse | DF <sub>min</sub> Burst | DF <sub>min</sub> Tension |
|-----------|---------------|---------|--------|---------|------|----------------------------|-------------------------|---------------------------|
| 17.5"     | 0 – 1000'     | 13.375" | 54.5#  | J55     | STC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 0-4000'       | 9.625"  | 40#    | J55     | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 12.25"    | 4000' – 5100' | 9.625"  | 40#    | HCK-55  | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 8.75"     | 0'-14,375'    | 5.5"    | 17#    | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |

**Cement Program:**

| Depth   | No. Sacks | Wt. ppg | Yld Ft <sup>3</sup> /ft | Slurry Description                                                                                                            |
|---------|-----------|---------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1000'   | 575       | 13.5    | 1.73                    | Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)                       |
|         | 250       | 14.8    | 1.34                    | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate                                                      |
| 5,100'  | 1325      | 12.7    | 2.22                    | Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free                |
|         | 200       | 14.8    | 1.32                    | Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free                                                            |
| 14,375' | 250       | 10.8    | 3.67                    | 60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 |
|         | 550       | 11.8    | 2.38                    | 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake     |
|         | 1200      | 14.2    | 1.28                    | 50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt                                                           |

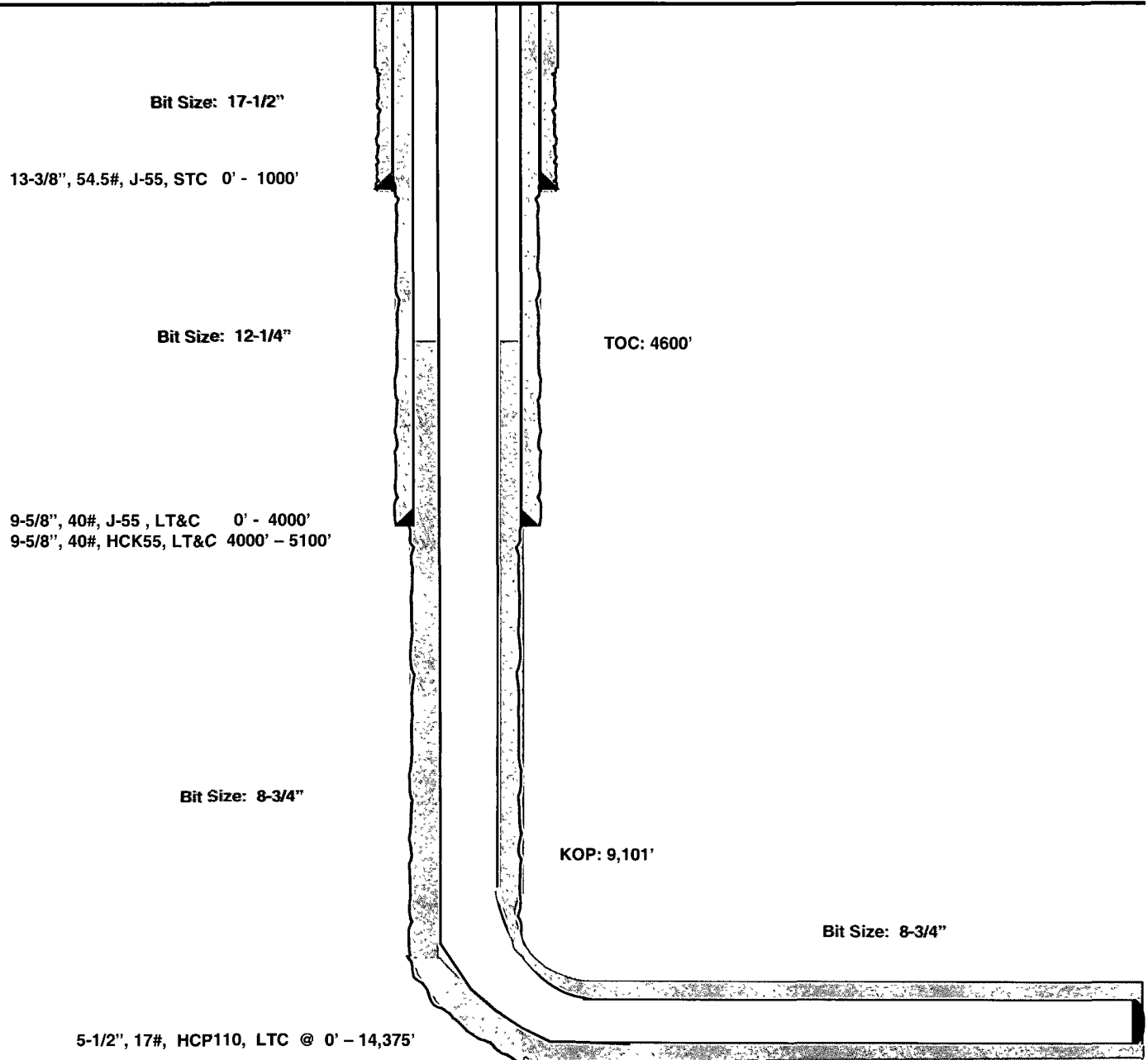
**Mud Program:**

| Depth                 | Type        | Weight (ppg) | Viscosity | Water Loss |
|-----------------------|-------------|--------------|-----------|------------|
| 0 – 1000'             | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1000' – 5,100'        | Brine       | 10.0-10.2    | 28-34     | N/c        |
| 5,100' – 9,101'       | Cut Brine   | 8.4-9.0      | 28-34     | N/c        |
| KOP – 14,375' Lateral | Cut Brine   | 9.0-9.5      | 40-42     | 8-10       |

Brown Bear 36 State #3H  
Red Hills  
Lea County, New Mexico  
Proposed Wellbore  
REVISED 7/26/12  
API: 30-025-

220' FSL  
1965' FWL  
Section 36  
T-25-S, R-33-E

KB: 3,350'  
GL: 3,320'



Lateral: 14,375' MD, 9,560' TVD

BH Location: 230' FNL & 1630' FWL  
Section 36  
T-25-S, R-33-E

**Project:** Lea County, NM (Nad27)  
**Site:** Brown Bear 36 State  
**Well:** Brown Bear 36 State 3H  
**Wellbore:** Wellbore #1  
**Plan:** Plan#1 072512  
**Rig:**

**PROJECT DETAILS** Lea County, NM (Nad27)  
 Geodetic System US State Plane 1927 (Exact solution)  
 Datum NAD 1927 (NADCON CONUS)  
 Ellipsoid Clarke 1866  
 Zone New Mexico East 3001  
 System Datum Mean Sea Level  
 Location North Grid

**WELL DETAILS:** Brown Bear 36 State 3H

|              |                       |
|--------------|-----------------------|
| Ground Level | 3320 00               |
| Latitude     | 31° 40' 01.04" W      |
| Longitude    | 103° 31' 40' 01.04" W |
| Eastings     | 749503 00             |
| Northings    | 393839 00             |

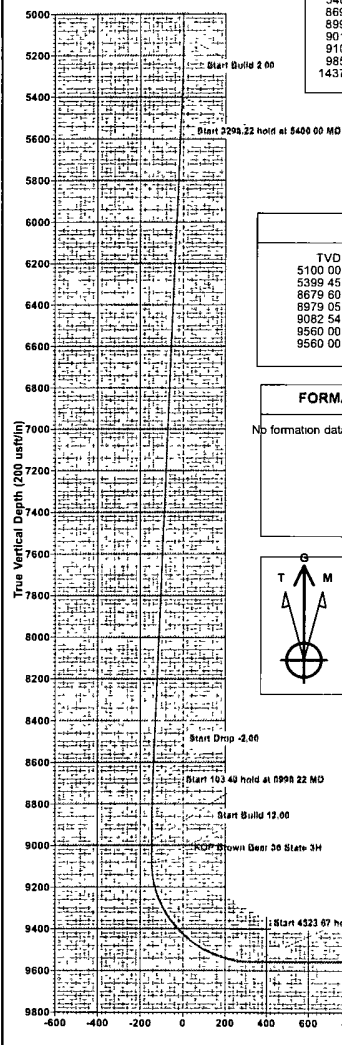
**WELLBORE TARGET DETAILS (MAP CO-ORDINATES)**

| Name                       | TVD     | +N/-S   | +E/-W   | Northings | Eastings  | Shape |
|----------------------------|---------|---------|---------|-----------|-----------|-------|
| KOP Brown Bear 36 State 3H | 9082 54 | -173 00 | -334 00 | 393866 00 | 749169 00 | Point |
| BHL Brown Bear 36 State 3H | 9560 00 | 4828 00 | -371 00 | 398667 00 | 749132 00 | Point |

**SECTION DETAILS**

| MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | Dleg  | TFace  | Vsect   |
|----------|-------|--------|---------|---------|---------|-------|--------|---------|
| 0 00     | 0 00  | 0 00   | 0 00    | 0 00    | 0 00    | 0 00  | 0 00   | 0 00    |
| 5100 00  | 0 00  | 0 00   | 5100 00 | 0 00    | 0 00    | 0 00  | 0 00   | 0 00    |
| 5400 00  | 6 00  | 242 62 | 5399 45 | -7 22   | -13 94  | 2 00  | 242 62 | -6 13   |
| 8698 22  | 6 00  | 242 62 | 8679 60 | -165 78 | -320 06 | 0 00  | 0 00   | -140 77 |
| 8998 22  | 0 00  | 0 00   | 8979 05 | -173 00 | -334 00 | 2 00  | 180 00 | -146 90 |
| 9019 16  | 0 00  | 0 00   | 9000 00 | -173 00 | -334 00 | 0 00  | 0 00   | -146 90 |
| 9101 70  | 0 00  | 0 00   | 9082 54 | -173 00 | -334 00 | 0 00  | 0 00   | -146 90 |
| 9851 70  | 90 00 | 359 58 | 9560 00 | 304 45  | -337 53 | 12 00 | 359 58 | 329 42  |
| 14375 37 | 90 00 | 359 58 | 9560 00 | 4828 00 | -371 00 | 0 00  | 0 00   | 4842 23 |

BHL Brown Bear 36 State 3H

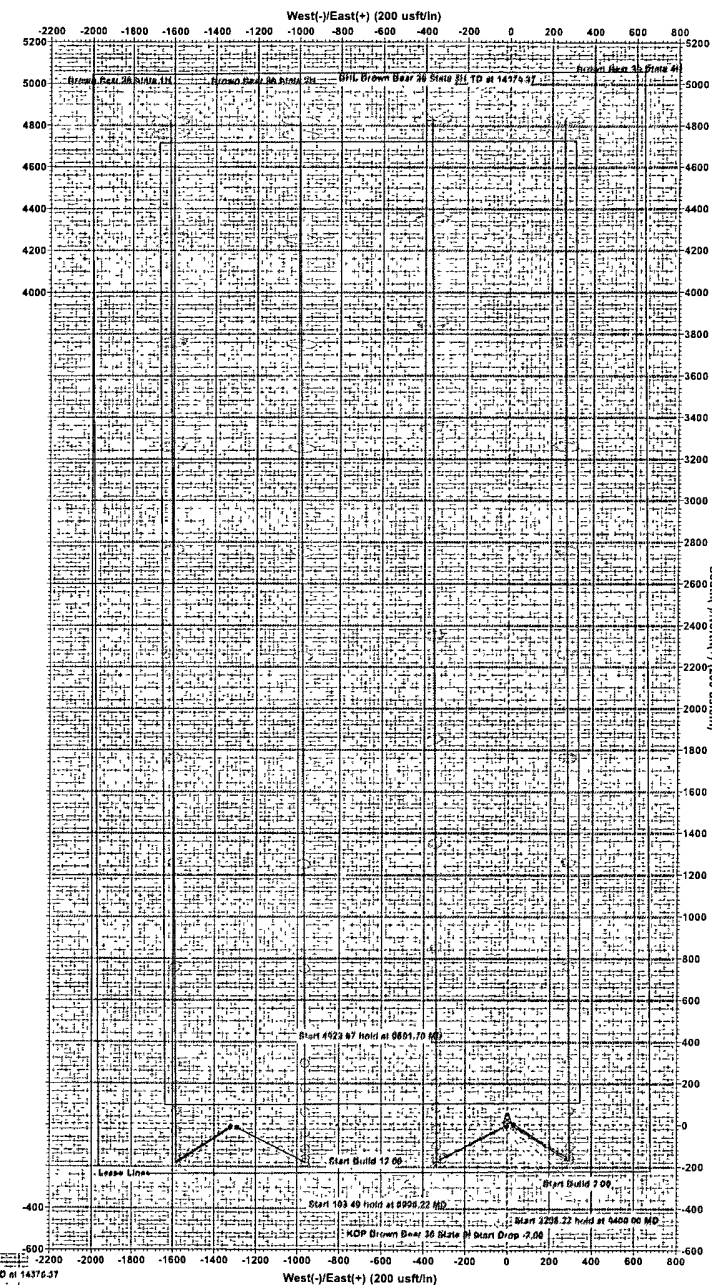
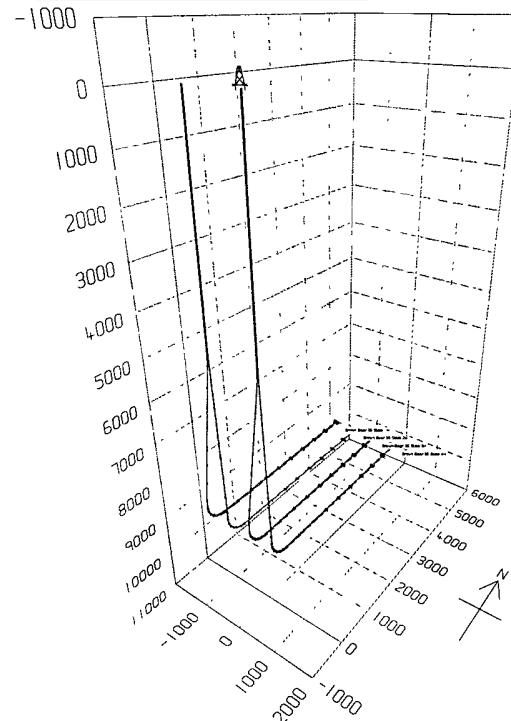
**ANNOTATIONS**

| TVD     | MD       | Annotation                       |
|---------|----------|----------------------------------|
| 5100 00 | 5100 00  | Start Build 2.00                 |
| 5399 45 | 5400 00  | Start 3298.22 hold at 5400 MD    |
| 8679 60 | 8698 22  | Start Drop -2.00                 |
| 8979 05 | 8998 22  | Start 103.49 hold at 8998.22 MD  |
| 9082 54 | 9101 70  | Start Build 12.00                |
| 9560 00 | 9851 70  | Start 4523.67 hold at 9851.70 MD |
| 9560 00 | 14375 37 | TO at 14375.37                   |

**FORMATION TOP DETAILS**

No formation data is available

**Azimuths to Grid North**  
 True North -0.43°  
 Magnetic North 6.99°  
 Magnetic Field  
 Strength 48423.9snT  
 Dip Angle 60.03°  
 Date 07/25/2012  
 Model IGRF2010\_14



## **EOG Resources**

Lea County, NM (Nad27)

Brown Bear 36 State

Brown Bear 36 State 3H

Wellbore #1

Plan: Plan#1 072512

## **EOG Resources**

26 July, 2012



**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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>                  | Brown Bear 36 State |                          |                    |
| <b>Site Position:</b>        |                     | <b>Northing:</b>         | 393,829.00 usft    |
| <b>From:</b>                 | Map                 | <b>Easting:</b>          | 748,183.00 usft    |
| <b>Position Uncertainty:</b> | 0.00 usft           | <b>Slot Radius:</b>      | 13-3/16 "          |
|                              |                     | <b>Latitude:</b>         | 32° 4' 48.7838 N   |
|                              |                     | <b>Longitude:</b>        | 103° 31' 55.3525 W |
|                              |                     | <b>Grid Convergence:</b> | 0 43 °             |

|                             |                        |           |                            |
|-----------------------------|------------------------|-----------|----------------------------|
| <b>Well:</b>                | Brown Bear 36 State 3H |           |                            |
| <b>Well Position</b>        | <b>+N/-S</b>           | 0.00 usft | <b>Northing:</b>           |
|                             | <b>+E/-W</b>           | 0.00 usft | <b>Easting:</b>            |
| <b>Position Uncertainty</b> |                        | 0.00 usft | <b>Wellhead Elevation:</b> |
|                             |                        |           | usft                       |
|                             |                        |           | <b>Latitude:</b>           |
|                             |                        |           | 32° 4' 48.7855 N           |
|                             |                        |           | <b>Longitude:</b>          |
|                             |                        |           | 103° 31' 40.0104 W         |
|                             |                        |           | <b>Ground Level:</b>       |
|                             |                        |           | 3,320.00 usft              |

|                  |                   |                    |                       |
|------------------|-------------------|--------------------|-----------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b>    |
|                  | IGRF2010_14       | 07/25/12           | (°)                   |
|                  |                   |                    | 7.42                  |
|                  |                   |                    | <b>Dip Angle</b>      |
|                  |                   |                    | (°)                   |
|                  |                   |                    | 60.03                 |
|                  |                   |                    | <b>Field Strength</b> |
|                  |                   |                    | (nT)                  |
|                  |                   |                    | 48,424                |

|                          |                         |              |                      |
|--------------------------|-------------------------|--------------|----------------------|
| <b>Design:</b>           | Plan#1 072512           |              |                      |
| <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)</b> | <b>+N/-S</b> | <b>+E/-W</b>         |
|                          | (usft)                  | (usft)       | (usft)               |
|                          | 0.00                    | 0.00         | 0.00                 |
|                          |                         |              | <b>Direction</b>     |
|                          |                         |              | (°)                  |
|                          |                         |              | 355.61               |

|                            |             |                             |                  |                    |
|----------------------------|-------------|-----------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b> | 07/26/12                    |                  |                    |
| <b>From</b>                | <b>To</b>   | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |
| (usft)                     | (usft)      |                             |                  |                    |
| 0.00                       | 14,375.37   | Plan#1 072512 (Wellbore #1) | MWD              | MWD - Standard     |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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                 | -3,345.00       | 0.00          | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 100.00         | 0.00       | 0.00                 | -3,245.00       | 100.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 200.00         | 0.00       | 0.00                 | -3,145.00       | 200.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 300.00         | 0.00       | 0.00                 | -3,045.00       | 300.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 400.00         | 0.00       | 0.00                 | -2,945.00       | 400.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 500.00         | 0.00       | 0.00                 | -2,845.00       | 500.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 600.00         | 0.00       | 0.00                 | -2,745.00       | 600.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 700.00         | 0.00       | 0.00                 | -2,645.00       | 700.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 800.00         | 0.00       | 0.00                 | -2,545.00       | 800.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 900.00         | 0.00       | 0.00                 | -2,445.00       | 900.00        | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,000.00       | 0.00       | 0.00                 | -2,345.00       | 1,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,100.00       | 0.00       | 0.00                 | -2,245.00       | 1,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,200.00       | 0.00       | 0.00                 | -2,145.00       | 1,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,300.00       | 0.00       | 0.00                 | -2,045.00       | 1,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,400.00       | 0.00       | 0.00                 | -1,945.00       | 1,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,500.00       | 0.00       | 0.00                 | -1,845.00       | 1,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,600.00       | 0.00       | 0.00                 | -1,745.00       | 1,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,700.00       | 0.00       | 0.00                 | -1,645.00       | 1,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,800.00       | 0.00       | 0.00                 | -1,545.00       | 1,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 1,900.00       | 0.00       | 0.00                 | -1,445.00       | 1,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,000.00       | 0.00       | 0.00                 | -1,345.00       | 2,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,100.00       | 0.00       | 0.00                 | -1,245.00       | 2,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,200.00       | 0.00       | 0.00                 | -1,145.00       | 2,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,300.00       | 0.00       | 0.00                 | -1,045.00       | 2,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,400.00       | 0.00       | 0.00                 | -945.00         | 2,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,500.00       | 0.00       | 0.00                 | -845.00         | 2,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |
| 2,600.00       | 0.00       | 0.00                 | -745.00         | 2,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
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| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345 00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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                 | -645.00         | 2,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 2,800.00                | 0.00       | 0.00                 | -545.00         | 2,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 2,900.00                | 0.00       | 0.00                 | -445.00         | 2,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,000.00                | 0.00       | 0.00                 | -345.00         | 3,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,100.00                | 0.00       | 0.00                 | -245.00         | 3,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,200.00                | 0.00       | 0.00                 | -145.00         | 3,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,300.00                | 0.00       | 0.00                 | -45.00          | 3,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,400.00                | 0.00       | 0.00                 | 55.00           | 3,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,500.00                | 0.00       | 0.00                 | 155.00          | 3,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,600.00                | 0.00       | 0.00                 | 255.00          | 3,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,700.00                | 0.00       | 0.00                 | 355.00          | 3,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,800.00                | 0.00       | 0.00                 | 455.00          | 3,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 3,900.00                | 0.00       | 0.00                 | 555.00          | 3,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,000.00                | 0.00       | 0.00                 | 655.00          | 4,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,100.00                | 0.00       | 0.00                 | 755.00          | 4,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,200.00                | 0.00       | 0.00                 | 855.00          | 4,200.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,300.00                | 0.00       | 0.00                 | 955.00          | 4,300.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,400.00                | 0.00       | 0.00                 | 1,055.00        | 4,400.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,500.00                | 0.00       | 0.00                 | 1,155.00        | 4,500.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,600.00                | 0.00       | 0.00                 | 1,255.00        | 4,600.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,700.00                | 0.00       | 0.00                 | 1,355.00        | 4,700.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,800.00                | 0.00       | 0.00                 | 1,455.00        | 4,800.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 4,900.00                | 0.00       | 0.00                 | 1,555.00        | 4,900.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 5,000.00                | 0.00       | 0.00                 | 1,655.00        | 5,000.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| 5,100.00                | 0.00       | 0.00                 | 1,755.00        | 5,100.00      | 0.00          | 0.00          | 0.00             | 0.00                | 393,839.00         | 749,503.00        |  |  |
| <b>Start Build 2.00</b> |            |                      |                 |               |               |               |                  |                     |                    |                   |  |  |
| 5,200.00                | 2.00       | 242.62               | 1,854.98        | 5,199.98      | -0.80         | -1.55         | -0.68            | 2.00                | 393,838.20         | 749,501.45        |  |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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) |  |
| 5,300.00                         | 4.00       | 242.62               | 1,954.84        | 5,299.84      | -3.21         | -6.20         | -2.73            | 2.00                | 393,835.79         | 749,496.80        |  |
| 5,400.00                         | 6.00       | 242.62               | 2,054.45        | 5,399.45      | -7.22         | -13.94        | -6.13            | 2.00                | 393,831.78         | 749,489.06        |  |
| Start 3298.22 hold at 5400.00 MD |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 5,500.00                         | 6.00       | 242.62               | 2,153.90        | 5,498.90      | -12.03        | -23.22        | -10.21           | 0.00                | 393,826.97         | 749,479.78        |  |
| 5,600.00                         | 6.00       | 242.62               | 2,253.36        | 5,598.36      | -16.83        | -32.50        | -14.29           | 0.00                | 393,822.17         | 749,470.50        |  |
| 5,700.00                         | 6.00       | 242.62               | 2,352.81        | 5,697.81      | -21.64        | -41.78        | -18.38           | 0.00                | 393,817.36         | 749,461.22        |  |
| 5,800.00                         | 6.00       | 242.62               | 2,452.26        | 5,797.26      | -26.45        | -51.06        | -22.46           | 0.00                | 393,812.55         | 749,451.94        |  |
| 5,900.00                         | 6.00       | 242.62               | 2,551.71        | 5,896.71      | -31.26        | -60.34        | -26.54           | 0.00                | 393,807.74         | 749,442.66        |  |
| 6,000.00                         | 6.00       | 242.62               | 2,651.17        | 5,996.17      | -36.06        | -69.63        | -30.62           | 0.00                | 393,802.94         | 749,433.37        |  |
| 6,100.00                         | 6.00       | 242.62               | 2,750.62        | 6,095.62      | -40.87        | -78.91        | -34.71           | 0.00                | 393,798.13         | 749,424.09        |  |
| 6,200.00                         | 6.00       | 242.62               | 2,850.07        | 6,195.07      | -45.68        | -88.19        | -38.79           | 0.00                | 393,793.32         | 749,414.81        |  |
| 6,300.00                         | 6.00       | 242.62               | 2,949.52        | 6,294.52      | -50.49        | -97.47        | -42.87           | 0.00                | 393,788.51         | 749,405.53        |  |
| 6,400.00                         | 6.00       | 242.62               | 3,048.97        | 6,393.97      | -55.29        | -106.75       | -46.95           | 0.00                | 393,783.71         | 749,396.25        |  |
| 6,500.00                         | 6.00       | 242.62               | 3,148.43        | 6,493.43      | -60.10        | -116.03       | -51.03           | 0.00                | 393,778.90         | 749,386.97        |  |
| 6,600.00                         | 6.00       | 242.62               | 3,247.88        | 6,592.88      | -64.91        | -125.32       | -55.12           | 0.00                | 393,774.09         | 749,377.68        |  |
| 6,700.00                         | 6.00       | 242.62               | 3,347.33        | 6,692.33      | -69.72        | -134.60       | -59.20           | 0.00                | 393,769.28         | 749,368.40        |  |
| 6,800.00                         | 6.00       | 242.62               | 3,446.78        | 6,791.78      | -74.52        | -143.88       | -63.28           | 0.00                | 393,764.48         | 749,359.12        |  |
| 6,900.00                         | 6.00       | 242.62               | 3,546.23        | 6,891.23      | -79.33        | -153.16       | -67.36           | 0.00                | 393,759.67         | 749,349.84        |  |
| 7,000.00                         | 6.00       | 242.62               | 3,645.69        | 6,990.69      | -84.14        | -162.44       | -71.45           | 0.00                | 393,754.86         | 749,340.56        |  |
| 7,100.00                         | 6.00       | 242.62               | 3,745.14        | 7,090.14      | -88.95        | -171.72       | -75.53           | 0.00                | 393,750.05         | 749,331.28        |  |
| 7,200.00                         | 6.00       | 242.62               | 3,844.59        | 7,189.59      | -93.75        | -181.01       | -79.61           | 0.00                | 393,745.25         | 749,321.99        |  |
| 7,300.00                         | 6.00       | 242.62               | 3,944.04        | 7,289.04      | -98.56        | -190.29       | -83.69           | 0.00                | 393,740.44         | 749,312.71        |  |
| 7,400.00                         | 6.00       | 242.62               | 4,043.50        | 7,388.50      | -103.37       | -199.57       | -87.78           | 0.00                | 393,735.63         | 749,303.43        |  |
| 7,500.00                         | 6.00       | 242.62               | 4,142.95        | 7,487.95      | -108.18       | -208.85       | -91.86           | 0.00                | 393,730.82         | 749,294.15        |  |
| 7,600.00                         | 6.00       | 242.62               | 4,242.40        | 7,587.40      | -112.98       | -218.13       | -95.94           | 0.00                | 393,726.02         | 749,284.87        |  |
| 7,700.00                         | 6.00       | 242.62               | 4,341.85        | 7,686.85      | -117.79       | -227.41       | -100.02          | 0.00                | 393,721.21         | 749,275.59        |  |
| 7,800.00                         | 6.00       | 242.62               | 4,441.30        | 7,786.30      | -122.60       | -236.70       | -104.10          | 0.00                | 393,716.40         | 749,266.30        |  |

Phoenix Technology Services  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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) |  |
| 7,900.00                               | 6.00       | 242.62               | 4,540.76        | 7,885.76      | -127.41       | -245.98       | -108.19          | 0.00                | 393,711.59         | 749,257.02        |  |
| 8,000.00                               | 6.00       | 242.62               | 4,640.21        | 7,985.21      | -132.21       | -255.26       | -112.27          | 0.00                | 393,706.79         | 749,247.74        |  |
| 8,100.00                               | 6.00       | 242.62               | 4,739.66        | 8,084.66      | -137.02       | -264.54       | -116.35          | 0.00                | 393,701.98         | 749,238.46        |  |
| 8,200.00                               | 6.00       | 242.62               | 4,839.11        | 8,184.11      | -141.83       | -273.82       | -120.43          | 0.00                | 393,697.17         | 749,229.18        |  |
| 8,300.00                               | 6.00       | 242.62               | 4,938.57        | 8,283.57      | -146.64       | -283.10       | -124.52          | 0.00                | 393,692.36         | 749,219.90        |  |
| 8,400.00                               | 6.00       | 242.62               | 5,038.02        | 8,383.02      | -151.45       | -292.39       | -128.60          | 0.00                | 393,687.55         | 749,210.61        |  |
| 8,500.00                               | 6.00       | 242.62               | 5,137.47        | 8,482.47      | -156.25       | -301.67       | -132.68          | 0.00                | 393,682.75         | 749,201.33        |  |
| 8,600.00                               | 6.00       | 242.62               | 5,236.92        | 8,581.92      | -161.06       | -310.95       | -136.76          | 0.00                | 393,677.94         | 749,192.05        |  |
| 8,698.22                               | 6.00       | 242.62               | 5,334.60        | 8,679.60      | -165.78       | -320.06       | -140.77          | 0.00                | 393,673.22         | 749,182.94        |  |
| <b>Start Drop -2.00</b>                |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 8,700.00                               | 5.96       | 242.62               | 5,336.37        | 8,681.37      | -165.87       | -320.23       | -140.84          | 2.00                | 393,673.13         | 749,182.77        |  |
| 8,800.00                               | 3.96       | 242.62               | 5,435.99        | 8,780.99      | -169.85       | -327.91       | -144.22          | 2.00                | 393,669.15         | 749,175.09        |  |
| 8,900.00                               | 1.96       | 242.62               | 5,535.86        | 8,880.86      | -172.23       | -332.51       | -146.24          | 2.00                | 393,666.77         | 749,170.49        |  |
| 8,998.22                               | 0.00       | 0.00                 | 5,634.05        | 8,979.05      | -173.00       | -334.00       | -146.90          | 2.00                | 393,666.00         | 749,169.00        |  |
| <b>Start 103.49 hold at 8998.22 MD</b> |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 9,000.00                               | 0.00       | 0.00                 | 5,635.84        | 8,980.84      | -173.00       | -334.00       | -146.90          | 0.00                | 393,666.00         | 749,169.00        |  |
| 9,019.16                               | 0.00       | 0.00                 | 5,655.00        | 9,000.00      | -173.00       | -334.00       | -146.90          | 0.00                | 393,666.00         | 749,169.00        |  |
| 9,100.00                               | 0.00       | 0.00                 | 5,735.84        | 9,080.84      | -173.00       | -334.00       | -146.90          | 0.00                | 393,666.00         | 749,169.00        |  |
| 9,101.70                               | 0.00       | 0.00                 | 5,737.54        | 9,082.54      | -173.00       | -334.00       | -146.90          | 0.00                | 393,666.00         | 749,169.00        |  |
| <b>Start Build 12.00</b>               |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 9,200.00                               | 11.80      | 359.58               | 5,835.14        | 9,180.14      | -162.92       | -334.07       | -136.84          | 12.00               | 393,676.08         | 749,168.93        |  |
| 9,300.00                               | 23.80      | 359.58               | 5,930.18        | 9,275.18      | -132.41       | -334.30       | -106.41          | 12.00               | 393,706.59         | 749,168.70        |  |
| 9,400.00                               | 35.80      | 359.58               | 6,016.81        | 9,361.81      | -82.81        | -334.67       | -56.93           | 12.00               | 393,756.19         | 749,168.33        |  |
| 9,500.00                               | 47.80      | 359.58               | 6,091.22        | 9,436.22      | -16.29        | -335.16       | 9.44             | 12.00               | 393,822.71         | 749,167.84        |  |
| 9,600.00                               | 59.80      | 359.58               | 6,150.18        | 9,495.18      | 64.26         | -335.76       | 89.79            | 12.00               | 393,903.26         | 749,167.24        |  |
| 9,700.00                               | 71.80      | 359.58               | 6,191.10        | 9,536.10      | 155.30        | -336.43       | 180.62           | 12.00               | 393,994.30         | 749,166.57        |  |
| 9,800.00                               | 83.80      | 359.58               | 6,212.20        | 9,557.20      | 252.85        | -337.15       | 277.94           | 12.00               | 394,091.85         | 749,165.85        |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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) |  |
| 9,851.70                         | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 304.45        | -337.53       | 329.42           | 12.00               | 394,143.45         | 749,165.47        |  |
| Start 4523.67 hold at 9851.70 MD |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 9,900.00                         | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 352.75        | -337.89       | 377.60           | 0.00                | 394,191.75         | 749,165.11        |  |
| 10,000.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 452.75        | -338.63       | 477.36           | 0.00                | 394,291.75         | 749,164.37        |  |
| 10,100.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 552.75        | -339.37       | 577.12           | 0.00                | 394,391.75         | 749,163.63        |  |
| 10,200.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 652.74        | -340.11       | 676.88           | 0.00                | 394,491.74         | 749,162.89        |  |
| 10,300.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 752.74        | -340.85       | 776.64           | 0.00                | 394,591.74         | 749,162.15        |  |
| 10,400.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 852.74        | -341.59       | 876.40           | 0.00                | 394,691.74         | 749,161.41        |  |
| 10,500.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 952.73        | -342.33       | 976.16           | 0.00                | 394,791.73         | 749,160.67        |  |
| 10,600.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,052.73      | -343.07       | 1,075.92         | 0.00                | 394,891.73         | 749,159.93        |  |
| 10,700.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,152.73      | -343.81       | 1,175.68         | 0.00                | 394,991.73         | 749,159.19        |  |
| 10,800.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,252.73      | -344.55       | 1,275.44         | 0.00                | 395,091.73         | 749,158.45        |  |
| 10,900.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,352.72      | -345.29       | 1,375.20         | 0.00                | 395,191.72         | 749,157.71        |  |
| 11,000.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,452.72      | -346.03       | 1,474.96         | 0.00                | 395,291.72         | 749,156.97        |  |
| 11,100.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,552.72      | -346.77       | 1,574.72         | 0.00                | 395,391.72         | 749,156.23        |  |
| 11,200.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,652.72      | -347.51       | 1,674.48         | 0.00                | 395,491.72         | 749,155.49        |  |
| 11,300.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,752.71      | -348.25       | 1,774.24         | 0.00                | 395,591.71         | 749,154.75        |  |
| 11,400.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,852.71      | -348.99       | 1,874.00         | 0.00                | 395,691.71         | 749,154.01        |  |
| 11,500.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 1,952.71      | -349.73       | 1,973.76         | 0.00                | 395,791.71         | 749,153.27        |  |
| 11,600.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,052.70      | -350.47       | 2,073.52         | 0.00                | 395,891.70         | 749,152.53        |  |
| 11,700.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,152.70      | -351.21       | 2,173.28         | 0.00                | 395,991.70         | 749,151.79        |  |
| 11,800.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,252.70      | -351.95       | 2,273.04         | 0.00                | 396,091.70         | 749,151.05        |  |
| 11,900.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,352.70      | -352.69       | 2,372.80         | 0.00                | 396,191.70         | 749,150.31        |  |
| 12,000.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,452.69      | -353.43       | 2,472.56         | 0.00                | 396,291.69         | 749,149.57        |  |
| 12,100.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,552.69      | -354.17       | 2,572.32         | 0.00                | 396,391.69         | 749,148.83        |  |
| 12,200.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,652.69      | -354.91       | 2,672.08         | 0.00                | 396,491.69         | 749,148.09        |  |
| 12,300.00                        | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,752.69      | -355.65       | 2,771.84         | 0.00                | 396,591.69         | 749,147.35        |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <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) |  |
| 12,400.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,852.68      | -356.39       | 2,871.60          | 0.00                | 396,691.68         | 749,146.61        |  |
| 12,500.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 2,952.68      | -357.13       | 2,971.36          | 0.00                | 396,791.68         | 749,145.87        |  |
| 12,600.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,052.68      | -357.87       | 3,071.12          | 0.00                | 396,891.68         | 749,145.13        |  |
| 12,700.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,152.67      | -358.61       | 3,170.88          | 0.00                | 396,991.67         | 749,144.39        |  |
| 12,800.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,252.67      | -359.34       | 3,270.64          | 0.00                | 397,091.67         | 749,143.66        |  |
| 12,900.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,352.67      | -360.08       | 3,370.40          | 0.00                | 397,191.67         | 749,142.92        |  |
| 13,000.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,452.67      | -360.82       | 3,470.16          | 0.00                | 397,291.67         | 749,142.18        |  |
| 13,100.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,552.66      | -361.56       | 3,569.92          | 0.00                | 397,391.66         | 749,141.44        |  |
| 13,200.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,652.66      | -362.30       | 3,669.68          | 0.00                | 397,491.66         | 749,140.70        |  |
| 13,300.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,752.66      | -363.04       | 3,769.44          | 0.00                | 397,591.66         | 749,139.96        |  |
| 13,400.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,852.66      | -363.78       | 3,869.20          | 0.00                | 397,691.66         | 749,139.22        |  |
| 13,500.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 3,952.65      | -364.52       | 3,968.96          | 0.00                | 397,791.65         | 749,138.48        |  |
| 13,600.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,052.65      | -365.26       | 4,068.72          | 0.00                | 397,891.65         | 749,137.74        |  |
| 13,700.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,152.65      | -366.00       | 4,168.48          | 0.00                | 397,991.65         | 749,137.00        |  |
| 13,800.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,252.64      | -366.74       | 4,268.24          | 0.00                | 398,091.64         | 749,136.26        |  |
| 13,900.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,352.64      | -367.48       | 4,368.00          | 0.00                | 398,191.64         | 749,135.52        |  |
| 14,000.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,452.64      | -368.22       | 4,467.76          | 0.00                | 398,291.64         | 749,134.78        |  |
| 14,100.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,552.64      | -368.96       | 4,567.52          | 0.00                | 398,391.64         | 749,134.04        |  |
| 14,200.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,652.63      | -369.70       | 4,667.28          | 0.00                | 398,491.63         | 749,133.30        |  |
| 14,300.00      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,752.63      | -370.44       | 4,767.04          | 0.00                | 398,591.63         | 749,132.56        |  |
| 14,375.37      | 90.00      | 359.58               | 6,215.00        | 9,560.00      | 4,828.00      | -371.00       | 4,842.23          | 0.00                | 398,667.00         | 749,132.00        |  |
| TD at 14375.37 |            |                      |                 |               |               |               |                   |                     |                    |                   |  |

**Phoenix Technology Services**  
EOG Resources



|                  |                        |                                     |                                                  |
|------------------|------------------------|-------------------------------------|--------------------------------------------------|
| <b>Company:</b>  | EOG Resources          | <b>Local Co-ordinate Reference:</b> | Well Brown Bear 36 State 3H                      |
| <b>Project:</b>  | Lea County, NM (Nad27) | <b>TVD Reference:</b>               | Well @ 3345.00usft (Original Well Elev + 25' KB) |
| <b>Site:</b>     | Brown Bear 36 State    | <b>MD Reference:</b>                | Well @ 3345 00usft (Original Well Elev + 25' KB) |
| <b>Well:</b>     | Brown Bear 36 State 3H | <b>North Reference:</b>             | Grid                                             |
| <b>Wellbore:</b> | Wellbore #1            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                |
| <b>Design:</b>   | Plan#1 072512          | <b>Database:</b>                    | GCR DB v5000                                     |

| Plan Annotations            |                             |                   |                 |                                  |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                          |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                  |
| 5,100.00                    | 5,100 00                    | 0.00              | 0.00            | Start Build 2 00                 |
| 5,400.00                    | 5,399.45                    | -7 22             | -13.94          | Start 3298.22 hold at 5400.00 MD |
| 8,698.22                    | 8,679.60                    | -165.78           | -320.06         | Start Drop -2 00                 |
| 8,998.22                    | 8,979 05                    | -173.00           | -334 00         | Start 103.49 hold at 8998.22 MD  |
| 9,101 70                    | 9,082.54                    | -173 00           | -334.00         | Start Build 12.00                |
| 9,851.70                    | 9,560.00                    | 304.45            | -337.53         | Start 4523.67 hold at 9851.70 MD |
| 14,375.37                   | 9,560 00                    | 4,828.00          | -371.00         | TD at 14375.37                   |

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