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District IV  
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State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

FORM C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                 |                                                          |                                                                |
|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-025- <b>43006</b> | <sup>2</sup> Pool Code<br>98094                          | <sup>3</sup> Pool Name<br>WC-025 G-09 S253336D; Upper Wolfcamp |
| <sup>4</sup> Property Code<br>38965             | <sup>5</sup> Property Name<br><b>BLACK BEAR 36 STATE</b> | <sup>6</sup> Well Number<br><b>#702H</b>                       |
| <sup>7</sup> OGRID No.<br>7377                  | <sup>8</sup> Operator Name<br><b>EOG RESOURCES, INC.</b> | <sup>9</sup> Elevation<br><b>3334'</b>                         |

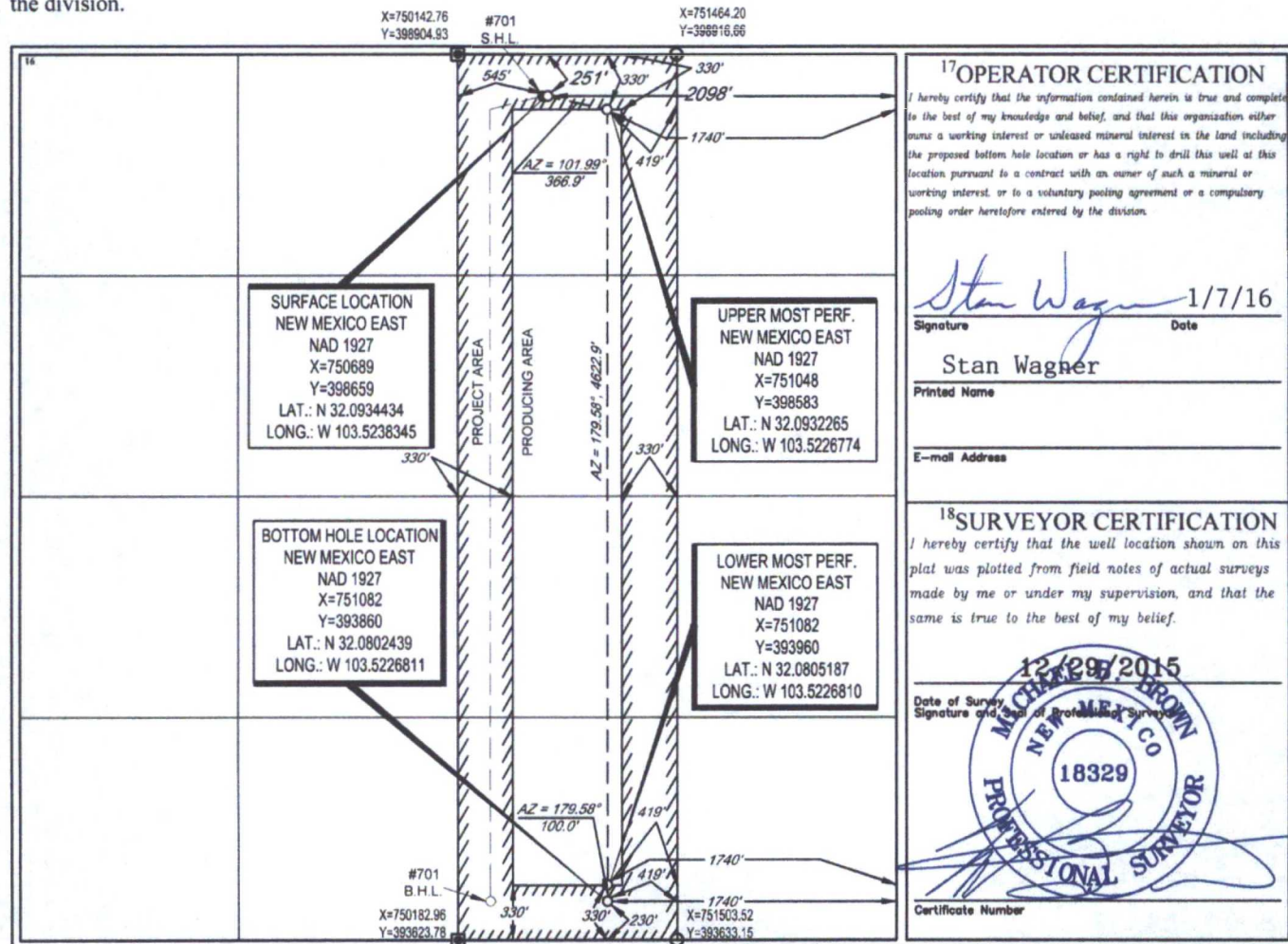
<sup>10</sup>Surface Location

| UL or lot no. | Section   | Township    | Range       | Lot Idn  | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| <b>B</b>      | <b>36</b> | <b>25-S</b> | <b>33-E</b> | <b>-</b> | <b>251'</b>   | <b>NORTH</b>     | <b>2098'</b>  | <b>EAST</b>    | <b>LEA</b> |

| UL or lot no. | Section   | Township    | Range       | Lot Idn  | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| <b>0</b>      | <b>36</b> | <b>25-S</b> | <b>33-E</b> | <b>-</b> | <b>230'</b>   | <b>SOUTH</b>     | <b>1740'</b>  | <b>EAST</b>    | <b>LEA</b> |

|                                                |                               |                                  |                         |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>160.00</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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JAN 14 2016

**Permit Information:**

Well Name: Black Bear 36 State No. 702H

**Location:**

SL: 251' FNL &amp; 2098' FEL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL &amp; 1740' FEL, 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 |
|-----------|-------------------|--------|--------|---------|------|----------------------------|-------------------------|---------------------------|
| 14.75"    | 0 - 1,055'        | 10.75" | 40.5#  | J55     | STC  | 1.125                      | 1.25                    | 1.60                      |
| 9.875"    | 0-10,500'         | 7.625" | 29.7#  | HCP-110 | LTC  | 1.125                      | 1.25                    | 1.60                      |
| 6.75"     | 0'-10,500'        | 5.5"   | 23#    | HCP-110 | JFE  | 1.125                      | 1.25                    | 1.60                      |
| 6.75"     | 10,500' - 17,400' | 5"     | 23.2#  | P-110   | JFE  | 1.125                      | 1.25                    | 1.60                      |

**Cement Program:**

| Depth                                    | No. Sacks | Wt. ppg | Yld Ft <sup>3</sup> /ft | Slurry Description                                                                                                                                                         |
|------------------------------------------|-----------|---------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,055'                                   | 300       | 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)                                                                    |
|                                          | 200       | 14.8    | 1.34                    | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate                                                                                                   |
| 10,700'<br>DV Tool w/<br>ECP @<br>5,100' | 350       | 10.8    | 3.68                    | Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free |
|                                          | 250       | 15.6    | 1.19                    | Stage 1 Tail: Class H + 1.0% FL-52 + 0.6% CD-32 + 0.5% SMS + 1.0% Salt + 0.3% R-3                                                                                          |
|                                          | 650       | 12.7    | 2.22                    | Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)                                                 |
|                                          | 200       | 14.8    | 1.35                    | Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L                                            |
| 17,400'                                  | 625       | 14.2    | 1.35                    | 50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L (TOC @ 10,000')                      |

**Mud Program:**

| Depth                        | Type        | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0 - 1,055'                   | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,055' - 10,500'             | Oil Base    | 8.7-9.4      | 58-68     | N/c - 6    |
| 10,500' - 12,115'            | Oil Base    | 8.7-9.4      | 58-68     | N/c - 6    |
| 12,115' - 17,400'<br>Lateral | Oil Base    | 9.0-9.5      | 58-68     | N/c - 6    |

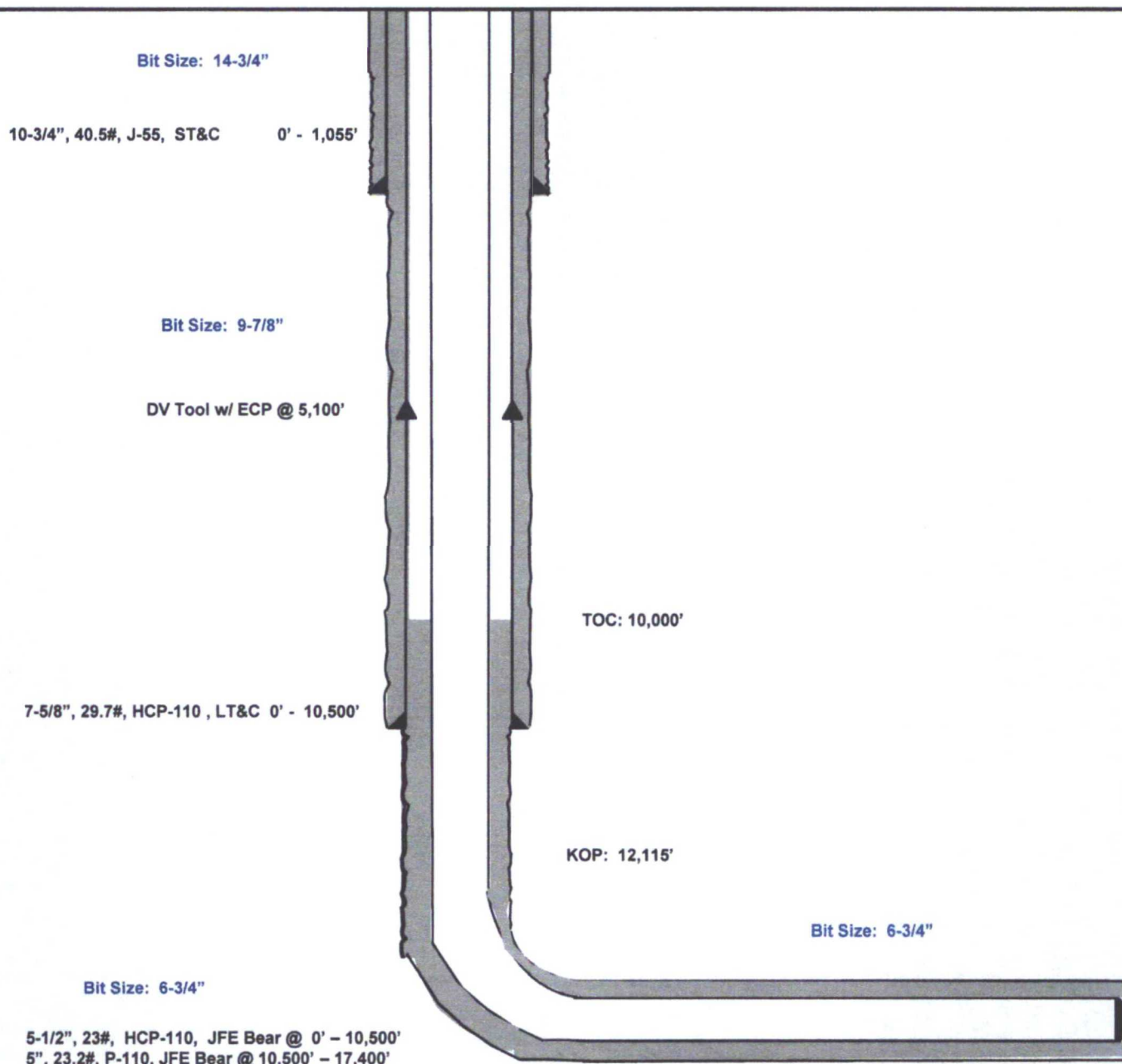
Black Bear 36 State #702H

Lea County, New Mexico  
Proposed Wellbore

251' FNL  
2098' FEL  
Section 36  
T-25-S, R-33-E

API: 30-025-\*\*\*\*\*

KB: 3,359'  
GL: 3,334'



Lateral: 17,400' MD, 12,595' TVD

BH Location: 230' FSL & 1740' FEL  
Section 36  
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)

Black Bear 36 State

#702H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

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



Azimuths to Grid North:  
True North: -0.42°  
Magnetic North: 6.66°  
Magnetic Field  
Strength: 48014.3nT  
Dip Angle: 66.97°  
Date: 1/7/2016  
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.66°  
To convert a Magnetic Direction to a True Direction, Add 7.08° East  
To convert a True Direction to a Grid Direction, Subtract 6.66°

WELL DETAILS: #702H

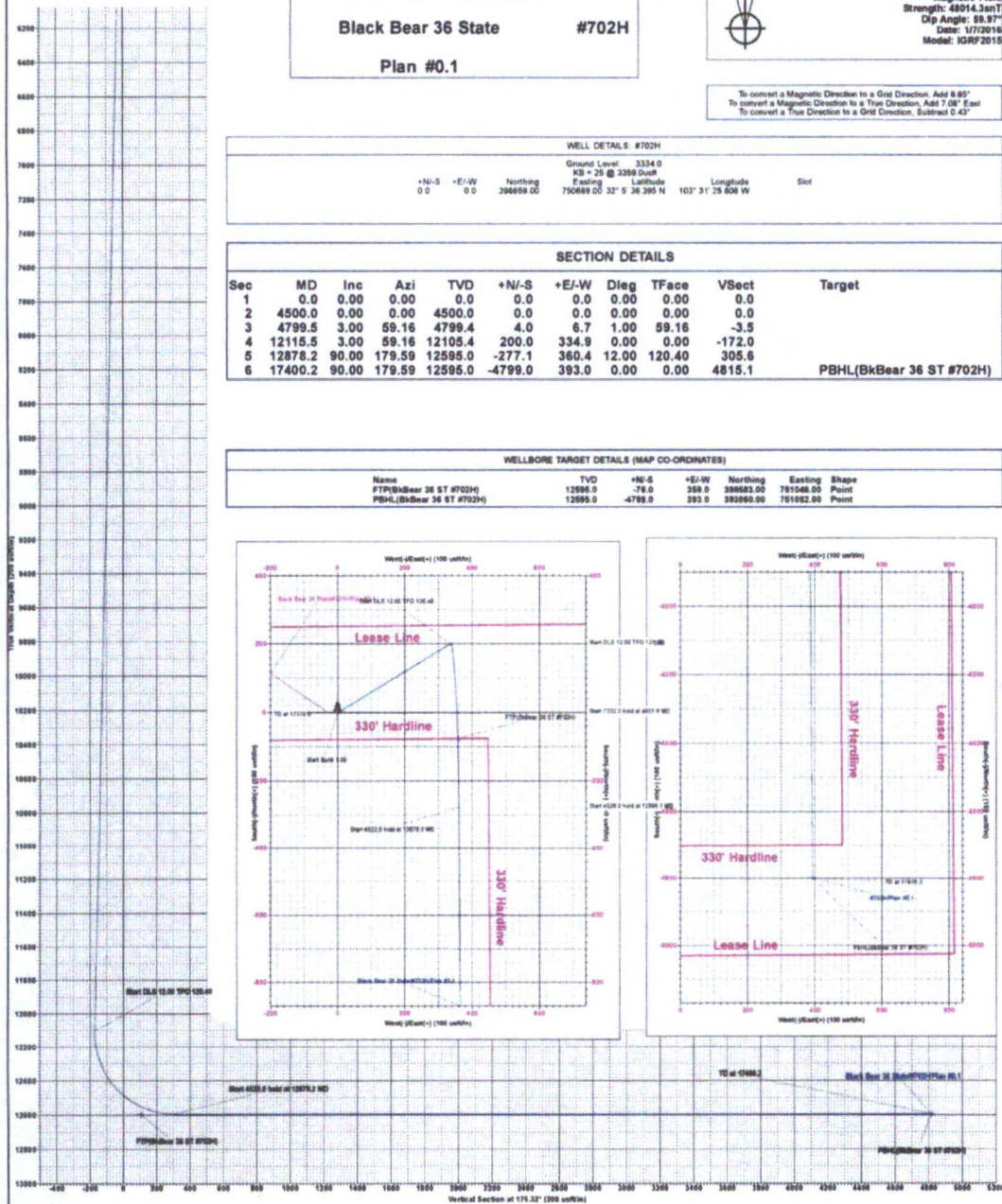
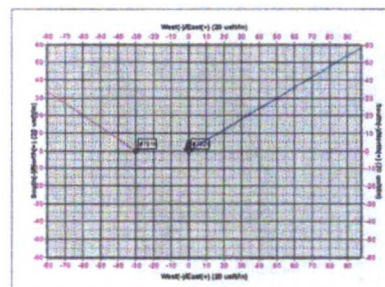
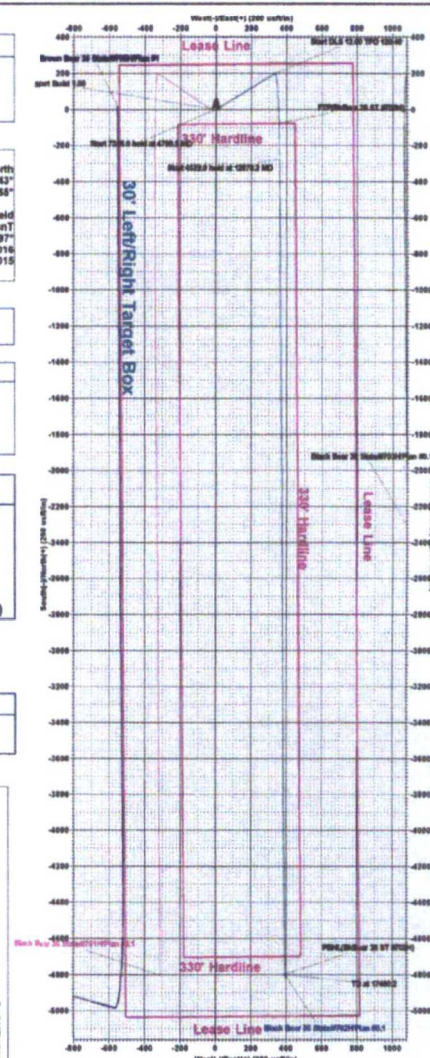
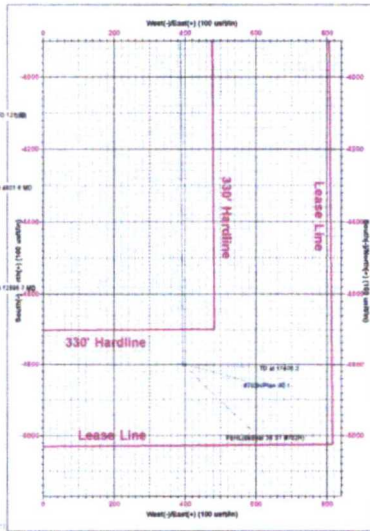
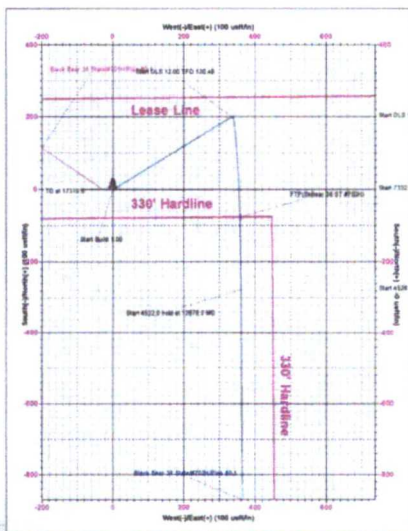
|               | +N-S            | +E-W              | Northing | Eastings | Longitude | Lat |
|---------------|-----------------|-------------------|----------|----------|-----------|-----|
| Ground Level: | 3334.0          |                   |          |          |           |     |
| KB = 25.63    | 3389.00         |                   |          |          |           |     |
| 750689.00     | 32° 5' 36.395 N | 103° 31' 29.608 W |          |          |           |     |

SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N-S    | +E-W  | Dieg  | TFace  | VSeet  | Target                   |
|-----|---------|-------|--------|---------|---------|-------|-------|--------|--------|--------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                          |
| 2   | 4500.0  | 0.00  | 0.00   | 4500.0  | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |                          |
| 3   | 4799.5  | 3.00  | 59.16  | 4799.4  | 4.0     | 6.7   | 1.00  | 59.16  | -3.5   |                          |
| 4   | 12115.5 | 3.00  | 59.16  | 12105.4 | 200.0   | 334.9 | 0.00  | 0.00   | -172.0 |                          |
| 5   | 12878.2 | 90.00 | 179.59 | 12595.0 | -277.1  | 360.4 | 12.00 | 120.40 | 305.6  |                          |
| 6   | 17400.2 | 90.00 | 179.59 | 12595.0 | -4799.0 | 393.0 | 0.00  | 0.00   | 4815.1 | PBHL(BkBear 36 ST #702H) |

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name                     | TVD     | +N-S    | +E-W  | Northing  | Eastings  | Shape |
|--------------------------|---------|---------|-------|-----------|-----------|-------|
| FTP(BkBear 36 ST #702H)  | 12695.0 | -78.0   | 359.0 | 398683.00 | 751046.00 | Point |
| PBHL(BkBear 36 ST #702H) | 12595.0 | -4799.0 | 393.0 | 392860.00 | 751082.00 | Point |





## **EOG Resources - Midland**

**Lea County, NM (NAD 27 NME)**

**Black Bear 36 State**

**#702H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**07 January, 2016**



**EOG Resources, Inc.**  
Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db   | <b>Local Co-ordinate Reference:</b> | Well #702H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3359.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME) | <b>MD Reference:</b>                | KB = 25 @ 3359.0usft |
| <b>Site:</b>     | Black Bear 36 State         | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #702H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD 27 NME)          |                      |                |
| <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                 |                      |                |

| Site                  |          | Black Bear 36 State |                 |                   |                   |
|-----------------------|----------|---------------------|-----------------|-------------------|-------------------|
| Site Position:        |          | Northing:           | 398,659.00 usft | Latitude:         | 32° 5' 36.397 N   |
| From:                 | Map      | Easting:            | 750,659.00 usft | Longitude:        | 103° 31' 26.155 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:        | 13-3/16 "       | Grid Convergence: | 0.43 °            |

|                      |       |           |                     |                 |               |                   |
|----------------------|-------|-----------|---------------------|-----------------|---------------|-------------------|
| Well                 | #702H |           |                     |                 |               |                   |
| Well Position        | +N/-S | 0.0 usft  | Northing:           | 398,659.00 usft | Latitude:     | 32° 5' 36.394 N   |
|                      | +E/-W | 30.0 usft | Easting:            | 750,689.00 usft | Longitude:    | 103° 31' 25.806 W |
| Position Uncertainty |       | 0.0 usft  | Wellhead Elevation: | 0.0 usft        | Ground Level: | 3,334.0 usft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 1/7/2016           | 7.08                   | 59.97                | 48,014                     |

|                          |                         |              |                      |                  |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| <b>Design</b>            | Plan #0.1               |              |                      |                  |
| <b>Audit Notes:</b>      |                         |              |                      |                  |
| <b>Version:</b>          | <b>Phase:</b>           | PLAN         | <b>Tie On Depth:</b> | 0.0              |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>         | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)               | (°)              |
|                          | 0.0                     | 0.0          | 0.0                  | 175.32           |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target              |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 4,500.0               | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 4,799.5               | 3.00            | 59.16       | 4,799.4               | 4.0          | 6.7          | 1.00                    | 1.00                   | 0.00                  | 59.16   |                     |
| 12,115.5              | 3.00            | 59.16       | 12,105.4              | 200.0        | 334.9        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 12,878.2              | 90.00           | 179.59      | 12,595.0              | -277.1       | 360.4        | 12.00                   | 11.41                  | 15.79                 | 120.40  |                     |
| 17,400.2              | 90.00           | 179.59      | 12,595.0              | -4,799.0     | 393.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL(BkBear 36 ST 1 |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Black Bear 36 State  
Well: #702H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H  
TVD Reference: KB = 25 @ 3359.0usft  
MD Reference: KB = 25 @ 3359.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 0.00            | 0.00        | 4,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 0.00            | 0.00        | 4,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 0.00            | 0.00        | 4,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 0.00            | 0.00        | 4,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 1.00            | 59.16       | 4,600.0               | 0.4          | 0.7          | -0.4                    | 1.00                    | 1.00                   | 0.00                  |
| 4,700.0               | 2.00            | 59.16       | 4,700.0               | 1.8          | 3.0          | -1.5                    | 1.00                    | 1.00                   | 0.00                  |
| 4,799.5               | 3.00            | 59.16       | 4,799.4               | 4.0          | 6.7          | -3.5                    | 1.00                    | 1.00                   | 0.00                  |
| 4,900.0               | 3.00            | 59.16       | 4,899.7               | 6.7          | 11.2         | -5.8                    | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 3.00            | 59.16       | 4,999.6               | 9.4          | 15.7         | -8.1                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 3.00            | 59.16       | 5,099.5               | 12.1         | 20.2         | -10.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 3.00            | 59.16       | 5,199.3               | 14.7         | 24.7         | -12.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 3.00            | 59.16       | 5,299.2               | 17.4         | 29.2         | -15.0                   | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Database: | EDM 5000.1 Single User Db   | Local Co-ordinate Reference: | Well #702H           |
| Company:  | EOG Resources - Midland     | TVD Reference:               | KB = 25 @ 3359.0usft |
| Project:  | Lea County, NM (NAD 27 NME) | MD Reference:                | KB = 25 @ 3359.0usft |
| Site:     | Black Bear 36 State         | North Reference:             | Grid                 |
| Well:     | #702H                       | Survey Calculation Method:   | Minimum Curvature    |
| Wellbore: | OH                          |                              |                      |
| Design:   | Plan #0.1                   |                              |                      |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,400.0               | 3.00            | 59.16       | 5,399.0               | 20.1         | 33.7         | -17.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 3.00            | 59.16       | 5,498.9               | 22.8         | 38.1         | -19.6                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 3.00            | 59.16       | 5,598.8               | 25.5         | 42.6         | -21.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 3.00            | 59.16       | 5,698.6               | 28.1         | 47.1         | -24.2                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 3.00            | 59.16       | 5,798.5               | 30.8         | 51.6         | -26.5                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 3.00            | 59.16       | 5,898.4               | 33.5         | 56.1         | -28.8                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 3.00            | 59.16       | 5,998.2               | 36.2         | 60.6         | -31.1                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 3.00            | 59.16       | 6,098.1               | 38.9         | 65.1         | -33.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 3.00            | 59.16       | 6,198.0               | 41.5         | 69.5         | -35.7                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 3.00            | 59.16       | 6,297.8               | 44.2         | 74.0         | -38.0                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 3.00            | 59.16       | 6,397.7               | 46.9         | 78.5         | -40.3                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 3.00            | 59.16       | 6,497.5               | 49.6         | 83.0         | -42.6                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 3.00            | 59.16       | 6,597.4               | 52.2         | 87.5         | -44.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 3.00            | 59.16       | 6,697.3               | 54.9         | 92.0         | -47.2                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 3.00            | 59.16       | 6,797.1               | 57.6         | 96.5         | -49.5                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 3.00            | 59.16       | 6,897.0               | 60.3         | 100.9        | -51.8                   | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 3.00            | 59.16       | 6,996.9               | 63.0         | 105.4        | -54.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 3.00            | 59.16       | 7,096.7               | 65.6         | 109.9        | -56.5                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 3.00            | 59.16       | 7,196.6               | 68.3         | 114.4        | -58.8                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 3.00            | 59.16       | 7,296.4               | 71.0         | 118.9        | -61.1                   | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 3.00            | 59.16       | 7,396.3               | 73.7         | 123.4        | -63.4                   | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 3.00            | 59.16       | 7,496.2               | 76.4         | 127.9        | -65.7                   | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 3.00            | 59.16       | 7,596.0               | 79.0         | 132.4        | -68.0                   | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 3.00            | 59.16       | 7,695.9               | 81.7         | 136.8        | -70.3                   | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 3.00            | 59.16       | 7,795.8               | 84.4         | 141.3        | -72.6                   | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 3.00            | 59.16       | 7,895.6               | 87.1         | 145.8        | -74.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 3.00            | 59.16       | 7,995.5               | 89.8         | 150.3        | -77.2                   | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 3.00            | 59.16       | 8,095.4               | 92.4         | 154.8        | -79.5                   | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 3.00            | 59.16       | 8,195.2               | 95.1         | 159.3        | -81.8                   | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 3.00            | 59.16       | 8,295.1               | 97.8         | 163.8        | -84.1                   | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 3.00            | 59.16       | 8,394.9               | 100.5        | 168.2        | -86.4                   | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 3.00            | 59.16       | 8,494.8               | 103.1        | 172.7        | -88.7                   | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 3.00            | 59.16       | 8,594.7               | 105.8        | 177.2        | -91.0                   | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 3.00            | 59.16       | 8,694.5               | 108.5        | 181.7        | -93.3                   | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 3.00            | 59.16       | 8,794.4               | 111.2        | 186.2        | -95.6                   | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 3.00            | 59.16       | 8,894.3               | 113.9        | 190.7        | -97.9                   | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 3.00            | 59.16       | 8,994.1               | 116.5        | 195.2        | -100.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 3.00            | 59.16       | 9,094.0               | 119.2        | 199.6        | -102.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 3.00            | 59.16       | 9,193.9               | 121.9        | 204.1        | -104.8                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 3.00            | 59.16       | 9,293.7               | 124.6        | 208.6        | -107.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 3.00            | 59.16       | 9,393.6               | 127.3        | 213.1        | -109.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 3.00            | 59.16       | 9,493.4               | 129.9        | 217.6        | -111.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 3.00            | 59.16       | 9,593.3               | 132.6        | 222.1        | -114.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 3.00            | 59.16       | 9,693.2               | 135.3        | 226.6        | -116.4                  | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 3.00            | 59.16       | 9,793.0               | 138.0        | 231.0        | -118.7                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 3.00            | 59.16       | 9,892.9               | 140.7        | 235.5        | -121.0                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 3.00            | 59.16       | 9,992.8               | 143.3        | 240.0        | -123.3                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 3.00            | 59.16       | 10,092.6              | 146.0        | 244.5        | -125.6                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 3.00            | 59.16       | 10,192.5              | 148.7        | 249.0        | -127.9                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 3.00            | 59.16       | 10,292.3              | 151.4        | 253.5        | -130.2                  | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 3.00            | 59.16       | 10,392.2              | 154.1        | 258.0        | -132.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 3.00            | 59.16       | 10,492.1              | 156.7        | 262.4        | -134.8                  | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 3.00            | 59.16       | 10,591.9              | 159.4        | 266.9        | -137.1                  | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0              | 3.00            | 59.16       | 10,691.8              | 162.1        | 271.4        | -139.4                  | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Black Bear 36 State  
Well: #702H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H  
TVD Reference: KB = 25 @ 3359.0usft  
MD Reference: KB = 25 @ 3359.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured Depth (usft)          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,800.0                       | 3.00            | 59.16       | 10,791.7              | 164.8        | 275.9        | -141.7                  | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                       | 3.00            | 59.16       | 10,891.5              | 167.4        | 280.4        | -144.0                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                       | 3.00            | 59.16       | 10,991.4              | 170.1        | 284.9        | -146.3                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                       | 3.00            | 59.16       | 11,091.3              | 172.8        | 289.4        | -148.6                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                       | 3.00            | 59.16       | 11,191.1              | 175.5        | 293.9        | -150.9                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                       | 3.00            | 59.16       | 11,291.0              | 178.2        | 298.3        | -153.2                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                       | 3.00            | 59.16       | 11,390.8              | 180.8        | 302.8        | -155.5                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                       | 3.00            | 59.16       | 11,490.7              | 183.5        | 307.3        | -157.8                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                       | 3.00            | 59.16       | 11,590.6              | 186.2        | 311.8        | -160.1                  | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                       | 3.00            | 59.16       | 11,690.4              | 188.9        | 316.3        | -162.4                  | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                       | 3.00            | 59.16       | 11,790.3              | 191.6        | 320.8        | -164.7                  | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                       | 3.00            | 59.16       | 11,890.2              | 194.2        | 325.3        | -167.0                  | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                       | 3.00            | 59.16       | 11,990.0              | 196.9        | 329.7        | -169.3                  | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                       | 3.00            | 59.16       | 12,089.9              | 199.6        | 334.2        | -171.6                  | 0.00                    | 0.00                   | 0.00                  |
| 12,115.5                       | 3.00            | 59.16       | 12,105.4              | 200.0        | 334.9        | -172.0                  | 0.00                    | 0.00                   | 0.00                  |
| 12,125.0                       | 2.61            | 81.22       | 12,114.9              | 200.2        | 335.4        | -172.1                  | 12.00                   | -4.06                  | 232.92                |
| 12,150.0                       | 3.68            | 135.03      | 12,139.8              | 199.7        | 336.5        | -171.6                  | 12.00                   | 4.27                   | 215.22                |
| 12,175.0                       | 6.18            | 154.98      | 12,164.7              | 197.9        | 337.6        | -169.7                  | 12.00                   | 10.02                  | 79.82                 |
| 12,200.0                       | 9.00            | 163.03      | 12,189.5              | 194.8        | 338.8        | -166.5                  | 12.00                   | 11.25                  | 32.20                 |
| 12,225.0                       | 11.90           | 167.23      | 12,214.1              | 190.4        | 339.9        | -162.0                  | 12.00                   | 11.62                  | 16.78                 |
| 12,250.0                       | 14.84           | 169.79      | 12,238.4              | 184.8        | 341.0        | -156.3                  | 12.00                   | 11.77                  | 10.24                 |
| 12,275.0                       | 17.80           | 171.51      | 12,262.4              | 177.8        | 342.2        | -149.3                  | 12.00                   | 11.84                  | 6.90                  |
| 12,300.0                       | 20.77           | 172.76      | 12,286.0              | 169.6        | 343.3        | -141.1                  | 12.00                   | 11.89                  | 4.99                  |
| 12,325.0                       | 23.75           | 173.70      | 12,309.1              | 160.2        | 344.4        | -131.6                  | 12.00                   | 11.91                  | 3.78                  |
| 12,350.0                       | 26.74           | 174.45      | 12,331.7              | 149.6        | 345.5        | -120.9                  | 12.00                   | 11.93                  | 2.98                  |
| 12,375.0                       | 29.72           | 175.06      | 12,353.8              | 137.9        | 346.6        | -109.1                  | 12.00                   | 11.95                  | 2.42                  |
| 12,400.0                       | 32.71           | 175.56      | 12,375.1              | 125.0        | 347.6        | -96.2                   | 12.00                   | 11.95                  | 2.02                  |
| 12,425.0                       | 35.70           | 175.99      | 12,395.8              | 110.9        | 348.7        | -82.1                   | 12.00                   | 11.96                  | 1.71                  |
| 12,450.0                       | 38.69           | 176.36      | 12,415.7              | 95.9         | 349.7        | -67.0                   | 12.00                   | 11.97                  | 1.48                  |
| 12,475.0                       | 41.69           | 176.68      | 12,434.8              | 79.8         | 350.7        | -50.9                   | 12.00                   | 11.97                  | 1.30                  |
| 12,500.0                       | 44.68           | 176.97      | 12,453.1              | 62.7         | 351.6        | -33.8                   | 12.00                   | 11.97                  | 1.16                  |
| 12,525.0                       | 47.67           | 177.23      | 12,470.4              | 44.7         | 352.5        | -15.7                   | 12.00                   | 11.98                  | 1.04                  |
| 12,550.0                       | 50.67           | 177.47      | 12,486.7              | 25.8         | 353.4        | 3.2                     | 12.00                   | 11.98                  | 0.95                  |
| 12,575.0                       | 53.66           | 177.69      | 12,502.0              | 6.0          | 354.2        | 22.9                    | 12.00                   | 11.98                  | 0.87                  |
| 12,600.0                       | 56.66           | 177.89      | 12,516.3              | -14.5        | 355.0        | 43.4                    | 12.00                   | 11.98                  | 0.80                  |
| 12,625.0                       | 59.65           | 178.07      | 12,529.5              | -35.7        | 355.8        | 64.6                    | 12.00                   | 11.98                  | 0.75                  |
| 12,650.0                       | 62.65           | 178.25      | 12,541.6              | -57.6        | 356.5        | 86.5                    | 12.00                   | 11.98                  | 0.71                  |
| 12,675.0                       | 65.65           | 178.42      | 12,552.5              | -80.0        | 357.1        | 108.9                   | 12.00                   | 11.98                  | 0.67                  |
| 12,687.8                       | 67.19           | 178.50      | 12,557.6              | -91.8        | 357.4        | 120.7                   | 12.00                   | 11.99                  | 0.64                  |
| <b>FTP(BkBear 36 ST #702H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,700.0                       | 68.64           | 178.58      | 12,562.2              | -103.1       | 357.7        | 131.9                   | 12.00                   | 11.99                  | 0.63                  |
| 12,725.0                       | 71.64           | 178.73      | 12,570.7              | -126.6       | 358.3        | 155.4                   | 12.00                   | 11.99                  | 0.61                  |
| 12,750.0                       | 74.64           | 178.88      | 12,577.9              | -150.5       | 358.8        | 179.3                   | 12.00                   | 11.99                  | 0.59                  |
| 12,775.0                       | 77.63           | 179.02      | 12,583.9              | -174.8       | 359.2        | 203.5                   | 12.00                   | 11.99                  | 0.57                  |
| 12,800.0                       | 80.63           | 179.16      | 12,588.6              | -199.3       | 359.6        | 228.0                   | 12.00                   | 11.99                  | 0.56                  |
| 12,825.0                       | 83.63           | 179.30      | 12,592.0              | -224.1       | 359.9        | 252.7                   | 12.00                   | 11.99                  | 0.55                  |
| 12,850.0                       | 86.62           | 179.44      | 12,594.2              | -249.0       | 360.2        | 277.5                   | 12.00                   | 11.99                  | 0.54                  |
| 12,875.0                       | 89.62           | 179.57      | 12,595.0              | -274.0       | 360.4        | 302.5                   | 12.00                   | 11.99                  | 0.54                  |
| 12,878.2                       | 90.00           | 179.59      | 12,595.0              | -277.1       | 360.4        | 305.6                   | 12.00                   | 11.99                  | 0.54                  |
| 12,900.0                       | 90.00           | 179.59      | 12,595.0              | -299.0       | 360.6        | 327.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                       | 90.00           | 179.59      | 12,595.0              | -398.9       | 361.3        | 427.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                       | 90.00           | 179.59      | 12,595.0              | -498.9       | 362.0        | 526.8                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                       | 90.00           | 179.59      | 12,595.0              | -598.9       | 362.8        | 626.6                   | 0.00                    | 0.00                   | 0.00                  |



# EOG Resources, Inc.

## Planning Report

Database: EDM 5000.1 Single User Db  
Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 27 NME)  
Site: Black Bear 36 State  
Well: #702H  
Wellbore: OH  
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H  
TVD Reference: KB = 25 @ 3359.0usft  
MD Reference: KB = 25 @ 3359.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,300.0              | 90.00           | 179.59      | 12,595.0              | -698.9       | 363.5        | 726.3                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 179.59      | 12,595.0              | -798.9       | 364.2        | 826.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 179.59      | 12,595.0              | -898.9       | 364.9        | 925.7                   | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 179.59      | 12,595.0              | -998.9       | 365.6        | 1,025.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 179.59      | 12,595.0              | -1,098.9     | 366.4        | 1,125.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 179.59      | 12,595.0              | -1,198.9     | 367.1        | 1,224.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 179.59      | 12,595.0              | -1,298.9     | 367.8        | 1,324.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 179.59      | 12,595.0              | -1,398.9     | 368.5        | 1,424.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 179.59      | 12,595.0              | -1,498.9     | 369.2        | 1,524.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 179.59      | 12,595.0              | -1,598.9     | 370.0        | 1,623.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 179.59      | 12,595.0              | -1,698.9     | 370.7        | 1,723.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 179.59      | 12,595.0              | -1,798.9     | 371.4        | 1,823.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 179.59      | 12,595.0              | -1,898.9     | 372.1        | 1,922.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 179.59      | 12,595.0              | -1,998.9     | 372.8        | 2,022.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 179.59      | 12,595.0              | -2,098.9     | 373.6        | 2,122.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 179.59      | 12,595.0              | -2,198.9     | 374.3        | 2,222.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 179.59      | 12,595.0              | -2,298.9     | 375.0        | 2,321.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 179.59      | 12,595.0              | -2,398.9     | 375.7        | 2,421.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.00           | 179.59      | 12,595.0              | -2,498.9     | 376.4        | 2,521.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.00           | 179.59      | 12,595.0              | -2,598.9     | 377.2        | 2,621.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 179.59      | 12,595.0              | -2,698.9     | 377.9        | 2,720.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 179.59      | 12,595.0              | -2,798.9     | 378.6        | 2,820.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 179.59      | 12,595.0              | -2,898.9     | 379.3        | 2,920.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 179.59      | 12,595.0              | -2,998.9     | 380.0        | 3,019.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 179.59      | 12,595.0              | -3,098.9     | 380.8        | 3,119.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 179.59      | 12,595.0              | -3,198.9     | 381.5        | 3,219.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 179.59      | 12,595.0              | -3,298.9     | 382.2        | 3,319.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 179.59      | 12,595.0              | -3,398.9     | 382.9        | 3,418.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 179.59      | 12,595.0              | -3,498.9     | 383.6        | 3,518.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 179.59      | 12,595.0              | -3,598.9     | 384.4        | 3,618.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 179.59      | 12,595.0              | -3,698.9     | 385.1        | 3,718.0                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 179.59      | 12,595.0              | -3,798.9     | 385.8        | 3,817.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 179.59      | 12,595.0              | -3,898.9     | 386.5        | 3,917.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 179.59      | 12,595.0              | -3,998.9     | 387.2        | 4,017.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 179.59      | 12,595.0              | -4,098.9     | 388.0        | 4,116.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 179.59      | 12,595.0              | -4,198.9     | 388.7        | 4,216.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 179.59      | 12,595.0              | -4,298.8     | 389.4        | 4,316.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 179.59      | 12,595.0              | -4,398.8     | 390.1        | 4,416.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 179.59      | 12,595.0              | -4,498.8     | 390.8        | 4,515.7                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 179.59      | 12,595.0              | -4,598.8     | 391.6        | 4,615.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 179.59      | 12,595.0              | -4,698.8     | 392.3        | 4,715.2                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.2              | 90.00           | 179.59      | 12,595.0              | -4,799.0     | 393.0        | 4,815.1                 | 0.00                    | 0.00                   | 0.00                  |

PBHL(BkBear 36 ST #702H)



**EOG Resources, Inc.**  
Planning Report

|                  |                             |                                     |                      |
|------------------|-----------------------------|-------------------------------------|----------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db   | <b>Local Co-ordinate Reference:</b> | Well #702H           |
| <b>Company:</b>  | EOG Resources - Midland     | <b>TVD Reference:</b>               | KB = 25 @ 3359.0usft |
| <b>Project:</b>  | Lea County, NM (NAD 27 NME) | <b>MD Reference:</b>                | KB = 25 @ 3359.0usft |
| <b>Site:</b>     | Black Bear 36 State         | <b>North Reference:</b>             | Grid                 |
| <b>Well:</b>     | #702H                       | <b>Survey Calculation Method:</b>   | Minimum Curvature    |
| <b>Wellbore:</b> | OH                          |                                     |                      |
| <b>Design:</b>   | Plan #0.1                   |                                     |                      |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape                                                                                    | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude        | Longitude         |
|--------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------------|-------------------|
| PBHL(BkBear 36 ST #702)<br>- plan hits target center<br>- Point                                                                | 0.00             | 0.00            | 12,595.0      | -4,799.0        | 393.0           | 393,860.00         | 751,082.00        | 32° 4' 48.876 N | 103° 31' 21.657 W |
| FTP(BkBear 36 ST #702)<br>- plan misses target center by 40.6usft at 12687.8usft MD (12557.6 TVD, -91.8 N, 357.4 E)<br>- Point | 0.00             | 0.00            | 12,595.0      | -76.0           | 359.0           | 398,583.00         | 751,048.00        | 32° 5' 35.616 N | 103° 31' 21.640 W |

**EOG RESOURCES, INC.  
BLACK BEAR 36 STATE #702H**

## **Hydrogen Sulfide Plan Summary**

- A. All personnel shall receive proper H<sub>2</sub>S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
  - Well control equipment
    - a. Flare line 150' from wellhead to be ignited by flare gun.
    - b. Choke manifold with a remotely operated choke.
    - c. Mud/gas separator
  - Protective equipment for essential personnel.
    - Breathing apparatus:
      - a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
      - b. Work/Escape packs — 4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
      - c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.
    - Auxiliary Rescue Equipment:
      - a. Stretcher
      - b. Two OSHA full body harness
      - c. 100 ft 5/8 inch OSHA approved rope
      - d. 1-20# class ABC fire extinguisher
  - H<sub>2</sub>S detection and monitoring equipment:
    - The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
    - (Gas sample tubes will be stored in the safety trailer)
  - Visual warning systems.
    - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
    - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
    - c. Two wind socks will be placed in strategic locations, visible from all angles.

**EOG RESOURCES, INC.**  
**BLACK BEAR 36 STATE #702H**

- **Mud program:**  
The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S bearing zones.
- **Metallurgy:**  
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- **Communication:**  
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.**  
**BLACK BEAR 36 STATE #702H**

**Emergency Assistance Telephone List**

**PUBLIC SAFETY:** **911 or**

|                                 |                |
|---------------------------------|----------------|
| Lea County Sheriff's Department | (575) 396-3611 |
| Rod Coffman                     |                |
| Fire Department:                |                |
| Carlsbad                        | (575) 885-3125 |
| Artesia                         | (575) 746-5050 |
| Hospitals:                      |                |
| Carlsbad                        | (575) 887-4121 |
| Artesia                         | (575) 748-3333 |
| Hobbs                           | (575) 392-1979 |
| Dept. of Public Safety/Carlsbad | (575) 748-9718 |
| Highway Department              | (575) 885-3281 |
| New Mexico Oil Conservation     | (575) 476-3440 |
| U.S. Dept. of Labor             | (575) 887-1174 |

**EOG Resources, Inc.**

|               |                       |
|---------------|-----------------------|
| EOG / Midland | Office (432) 686-3600 |
|---------------|-----------------------|

**Company Drilling Consultants:**

|              |                     |
|--------------|---------------------|
| Jett Dueitt  | Cell (432) 230-4840 |
| Blake Burney |                     |

**Drilling Engineer**

|               |                       |
|---------------|-----------------------|
| Robert Brosig | Office (432) 686-3737 |
|               | Cell (432) 770-0705   |

**Drilling Manager**

|            |                       |
|------------|-----------------------|
| Heath Work | Office (432) 686-6716 |
|            | Cell (903) 780-1179   |

**Drilling Superintendent**

|              |                       |
|--------------|-----------------------|
| Jason Richey | Office (432) 686-3665 |
|              | Cell (817) 879-6521   |

**H&P Drilling**

|                      |                       |
|----------------------|-----------------------|
| H&P Drilling         | Office (432) 563-5757 |
| H&P 415 Drilling Rig | Rig (432) 230-4840    |

**Tool Pusher:**

|                 |                     |
|-----------------|---------------------|
| Johnathan Craig | Cell (817) 760-6374 |
| Brad Garrett    |                     |

**Safety**

|                               |                       |
|-------------------------------|-----------------------|
| Reggie Phillips (HSE Manager) | Office (432) 686-3747 |
|                               | Cell (432) 250-7507   |