

HOBBS OCD  
DEC 13 2019  
RECEIVEDUNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNMOCB  
HobbsFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                              |                                                                                                                                                                                                                                                                                                                              |                                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|
| 1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other                                                                                                                                                                                                                                                          |  |                                              | 6. If Indian, Allottee or Tribe Name                                                                                                                                                                                                                                                                                         |                                      |  |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____                                                                                                                                                                                        |  |                                              | 7. Unit or CA Agreement Name and No.                                                                                                                                                                                                                                                                                         |                                      |  |
| 2. Name of Operator<br>EOG RESOURCES, INC                                                                                                                                                                                                                                                                                                                                                                            |  |                                              | 8. Lease Name and Well No.<br>PHILLY 31 FEDERAL COM 709H                                                                                                                                                                                                                                                                     |                                      |  |
| 3. Address PO BOX 2267<br>MIDLAND, TX 79702                                                                                                                                                                                                                                                                                                                                                                          |  |                                              | 9. API Well No.<br>30-025-44766                                                                                                                                                                                                                                                                                              |                                      |  |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>Sec 31 T26S R34E Mer NMP<br>At surface SENE 290FSL 533FEL 32.001068 N Lat, 103.502101 W Lon<br>Sec 31 T26S R34E Mer NMP<br>At top prod interval reported below SENE 119FSL 340FEL 32.000598 N Lat, 103.501477 W Lon<br>Sec 30 T26S R34E Mer NMP<br>At total depth NENE 110FNL 307FEL 32.021372 N Lat, 103.501403 W Lon |  |                                              | 10. Field and Pool, or Exploratory<br>SANDERS TANK; UP WOLFCAMP                                                                                                                                                                                                                                                              |                                      |  |
| 14. Date Spudded<br>06/22/2019                                                                                                                                                                                                                                                                                                                                                                                       |  |                                              | 15. Date T.D. Reached<br>07/06/2019                                                                                                                                                                                                                                                                                          |                                      |  |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>09/09/2019                                                                                                                                                                                                                                                                                                |  |                                              | 17. Elevations (DF, KB, RT, GL)*<br>3334 GL                                                                                                                                                                                                                                                                                  |                                      |  |
| 18. Total Depth: MD<br>TVD 20155<br>12724                                                                                                                                                                                                                                                                                                                                                                            |  | 19. Plug Back T.D.: MD<br>TVD 20085<br>12724 |                                                                                                                                                                                                                                                                                                                              | 20. Depth Bridge Plug Set: MD<br>TVD |  |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)                                                                                                                                                                                                                                                                                                                                                  |  |                                              | 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) |                                      |  |

## 23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade    | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|---------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 12.500    | 9.625 J55     | 40.0        |          | 921         |                      | 295                         |                   | 0           |               |
| 8.750     | 7.625 HCP-110 | 29.7        |          | 12115       |                      | 1520                        |                   | 0           |               |
| 6.750     | 5.500 ICYP110 | 20.0        |          | 20140       |                      | 760                         |                   | 5230        |               |
|           |               |             |          |             |                      |                             |                   |             |               |
|           |               |             |          |             |                      |                             |                   |             |               |
|           |               |             |          |             |                      |                             |                   |             |               |
|           |               |             |          |             |                      |                             |                   |             |               |
|           |               |             |          |             |                      |                             |                   |             |               |

## 24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
|      |                |                   |      |                |                   |      |                |                   |

## 25. Producing Intervals

| Formation   | Top   | Bottom | Perforated Interval | Size  | No. Holes | Perf. Status |
|-------------|-------|--------|---------------------|-------|-----------|--------------|
| A) WOLFCAMP | 12945 | 20085  | 12945 TO 20085      | 3.250 | 1440      | OPEN         |
| B)          |       |        |                     |       |           |              |
| C)          |       |        |                     |       |           |              |
| D)          |       |        |                     |       |           |              |

## 26. Perforation Record

| Depth Interval | Amount and Type of Material                      |
|----------------|--------------------------------------------------|
| 12945 TO 20085 | 18,636,010 LBS PROPPANT; 241,007 BBLs LOAD FLUID |
|                |                                                  |
|                |                                                  |
|                |                                                  |

## 28. Production - Interval A

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity         | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|-----------------------|---------------------|-------------------|
| 09/09/2019          | 09/14/2019        | 24           | →               | 3123.0  | 5849.0  | 10468.0   | 43.0                  |                     | POW               |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status         |                   |
| 64                  | SI                | 2365.0       | →               |         |         |           | 1873                  | ACCEPTED FOR RECORD |                   |

## 28a. Production - Interval B

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                   |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                   |              | →               |         |         |           |                       |             |                   |

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #486501 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

Reclamation due: 03/09/2020

## 28b. Production - Interval C

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation            | Top   | Bottom | Descriptions, Contents, etc. | Name                 | Top<br>Meas. Depth |
|----------------------|-------|--------|------------------------------|----------------------|--------------------|
| RUSTLER              | 823   |        | BARREN                       | RUSTLER              | 823                |
| T/SALT               | 1447  |        | BARREN                       | T/SALT               | 1447               |
| B/SALT               | 5086  |        | OIL & GAS                    | B/SALT               | 5086               |
| BRUSHY CANYON        | 7957  |        | OIL & GAS                    | BRUSHY CANYON        | 7957               |
| 1ST BONE SPRING SAND | 10525 |        | OIL & GAS                    | 1ST BONE SPRING SAND | 10525              |
| 2ND BONE SPRING SAND | 11094 |        | OIL & GAS                    | 2ND BONE SPRING SAND | 11094              |
| 3RD BONE SPRING SAND | 12098 |        | OIL & GAS                    | 3RD BONE SPRING SAND | 12098              |
| WOLFCAMP             | 12541 |        | OIL & GAS                    | WOLFCAMP             | 12541              |

32. Additional remarks (include plugging procedure):  
PLEASE REFERENCE ATTACHMENTS

## 33. Circle enclosed attachments:

- |                                                       |                    |               |                       |
|-------------------------------------------------------|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #486501 Verified by the BLM Well Information System.  
For EOG RESOURCES, INC, sent to the Hobbs  
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/18/2019 0

Name (please print) KAY MADDOX

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 10/04/2019

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

District I  
1675 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Artesia, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Sante Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Sante 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- 44766 | <sup>2</sup> Pool Code<br>98097                   | <sup>3</sup> Pool Name<br>SANDERS TANK; UPPER WOLFCAMP |
| <sup>4</sup> Property Code<br>321381     | <sup>5</sup> Property Name<br>PHILLY 31 FED COM   | <sup>6</sup> Well Number<br>#709H                      |
| <sup>7</sup> GRID No.<br>7377            | <sup>8</sup> Operator Name<br>EOG RESOURCES, INC. | <sup>9</sup> Elevation<br>3334'                        |

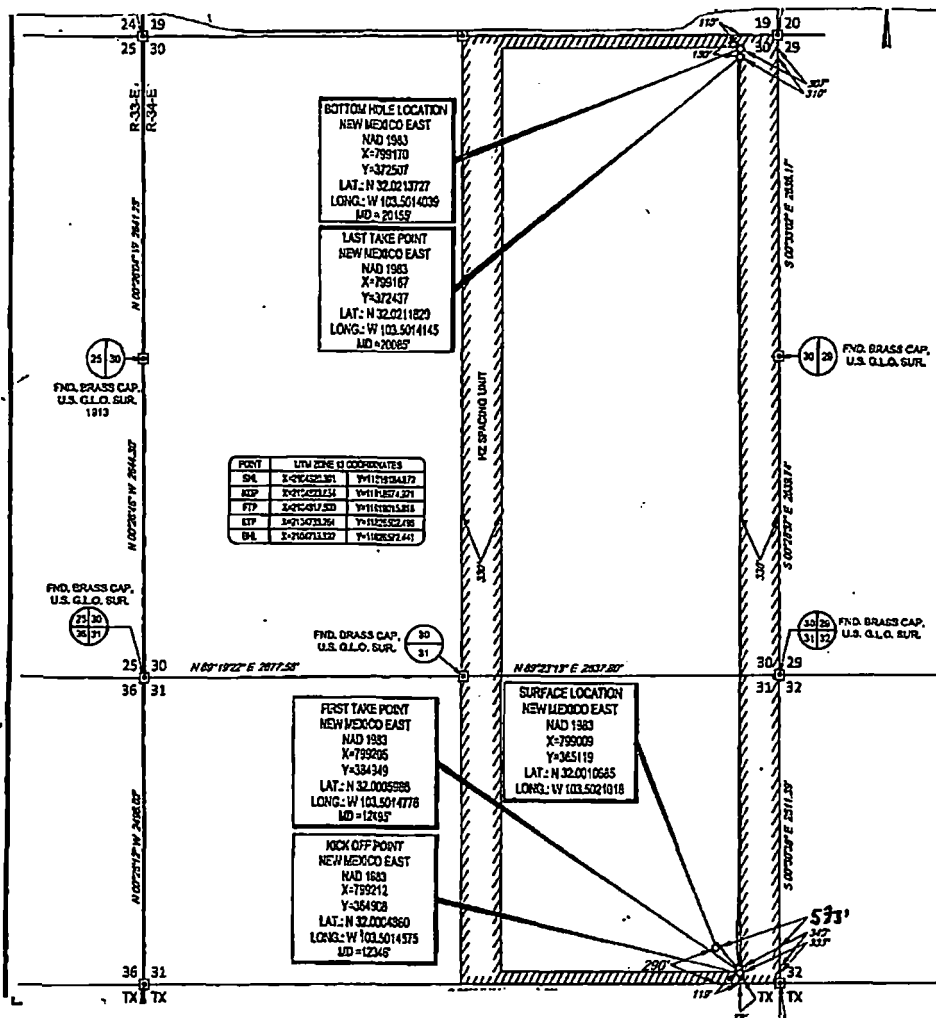
<sup>10</sup>Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 31      | 26-S     | 34-E  | -       | 290'          | SOUTH            | 533'          | EAST           | LEA    |

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 30      | 26-S     | 34-E  | -       | 110'          | NORTH            | 307'          | EAST           | LEA    |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>11</sup> Dedicated Acres<br>473.11 | <sup>12</sup> Joint or Infill | <sup>13</sup> Consolidation Code | <sup>14</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.

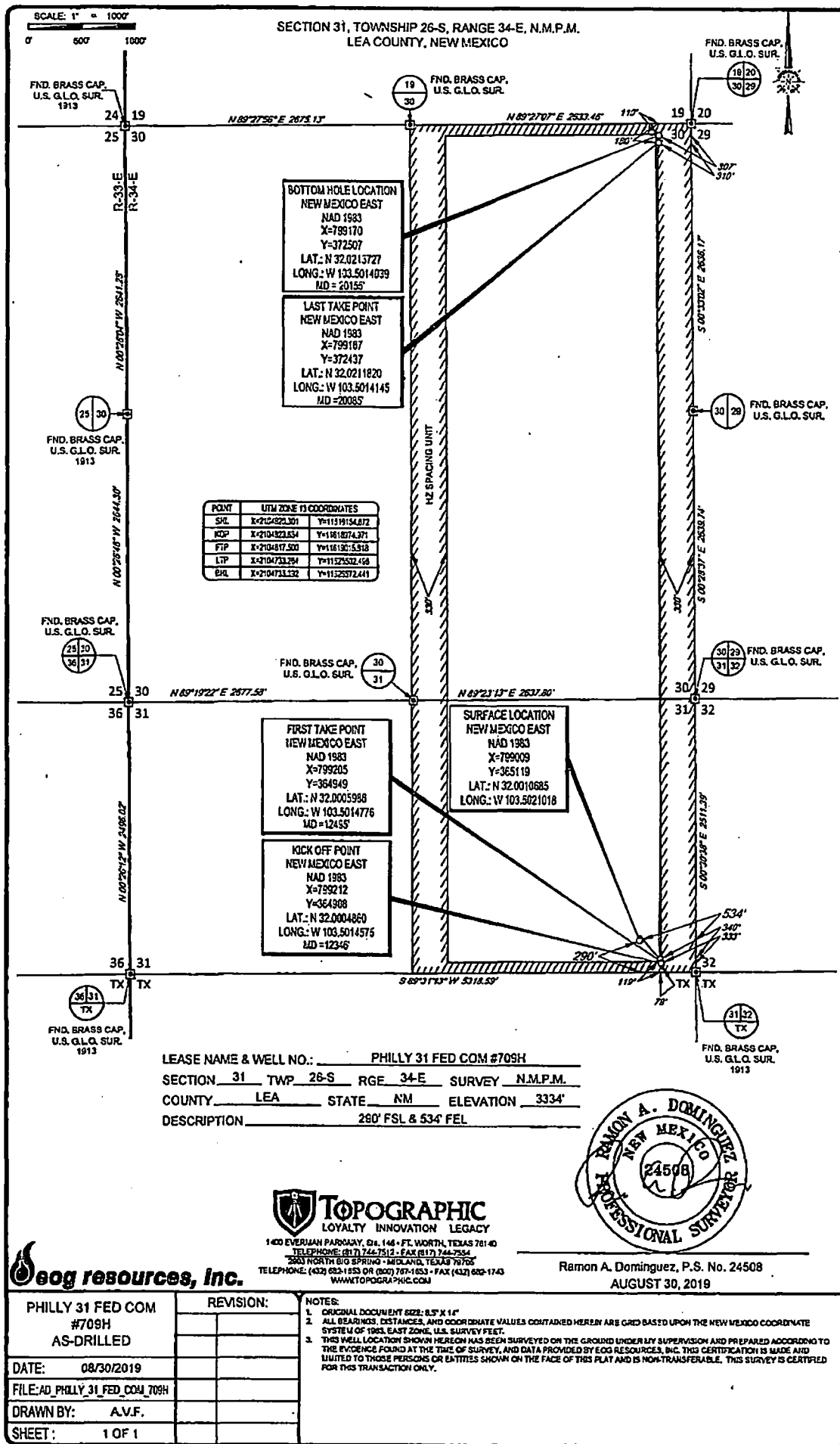


**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or, unless stated otherwise, has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Signature: Kay Maddox  
Date: 10/03/19  
Printed Name: KAY MADDOX  
E-mail Address:

**18 SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

Date of Survey: 01/11/2017  
Signature and Seal of Professional Surveyor: Michael E. Brown  
Certificate Number: 18329





## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Philly 31 Fed Com

#709H

OH

Design: OH

## **Midland PVA**

07 July, 2019



Midland PVA

|           |                             |  |  |                              |                       |
|-----------|-----------------------------|--|--|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     |  |  | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) |  |  | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           |  |  | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       |  |  | North Reference:             | Grid                  |
| Wellbore: | OH                          |  |  | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          |  |  | Database:                    | EDM 5000.14           |

|             |                             |               |                |  |  |
|-------------|-----------------------------|---------------|----------------|--|--|
| Project     | Lea County, NM (NAD 83 NME) |               |                |  |  |
| Map System: | US State Plane 1983         | System Datum: | Mean Sea Level |  |  |
| Geo Datum:  | North American Datum 1983   |               |                |  |  |
| Map Zone:   | New Mexico Eastern Zone     |               |                |  |  |

|                       |                   |              |                 |                   |                   |
|-----------------------|-------------------|--------------|-----------------|-------------------|-------------------|
| Site                  | Philly 31 Fed Com |              |                 |                   |                   |
| Site Position:        |                   | Northing:    | 365,084.00 usft | Latitude:         | 32° 0' 3.819 N    |
| From:                 | Map               | Easting:     | 794,820.00 usft | Longitude:        | 103° 30' 56.229 W |
| Position Uncertainty: | 0.0 usft          | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.43 "            |

|                      |          |                     |           |                 |              |                  |
|----------------------|----------|---------------------|-----------|-----------------|--------------|------------------|
| Well                 | #709H    |                     |           |                 |              |                  |
| Well Position        | +N-S     | 0.0 usft            | Northing: | 365,119.00 usft | Latitude:    | 32° 0' 3.849 N   |
|                      | +E-W     | 0.0 usft            | Easting:  | 799,009.00 usft | Longitude:   | 103° 30' 7.582 W |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft      | Ground Level:   | 3,334.0 usft |                  |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 6/13/2019   | 6.69            | 59.84         | 47,609.47891549     |

|                   |                  |        |        |               |     |
|-------------------|------------------|--------|--------|---------------|-----|
| Design            | OH               |        |        |               |     |
| Audit Notes:      |                  |        |        |               |     |
| Version:          | 1.0              | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N-S   | +E-W   | Direction     |     |
|                   | (usft)           | (usft) | (usft) | (°)           |     |
|                   | 0.0              | 0.0    | 0.0    | 1.07          |     |

|                |               |                   |           |                     |  |
|----------------|---------------|-------------------|-----------|---------------------|--|
| Survey Program | Date 7/7/2019 |                   |           |                     |  |
| From (usft)    | To (usft)     | Survey (Wellbore) | Tool Name | Description         |  |
| 154.0          | 20,153.0      | Driltech MWD (OH) | MWD       | OWSG MWD - Standard |  |



Midland PVA

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well: 0709H          |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0ush |
| Site:     | Philly 31 Fed Ccm           | MD Reference:                | KB = 25' @ 3359.0ush |
| Well:     | 0709H                       | North Reference:             | Grid                 |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature    |
| Design:   | OH                          | Database:                    | EDM 5000.14          |

| Survey      |            |                      |              |              |              |                    |                     |                    |                       |                        |  |
|-------------|------------|----------------------|--------------|--------------|--------------|--------------------|---------------------|--------------------|-----------------------|------------------------|--|
| MD<br>(ush) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(ush) | N/S<br>(ush) | E/W<br>(ush) | OLeg<br>(°/100ush) | Build<br>(°/100ush) | Turn<br>(°/100ush) | High to Plan<br>(ush) | Right to Plan<br>(ush) |  |
| 0.0         | 0.00       | 0.00                 | 0.0          | 0.0          | 0.0          | 0.00               | 0.00                | 0.00               | 0.0                   | 0.0                    |  |
| 154.0       | 0.40       | 160.60               | 154.0        | -0.5         | 0.2          | 0.28               | 0.28                | 0.00               | -0.5                  | 0.0                    |  |
| 243.0       | 0.70       | 151.50               | 243.0        | -1.3         | 0.5          | 0.33               | 0.34                | -10.11             | -1.4                  | -0.1                   |  |
| 332.0       | 1.00       | 164.50               | 332.0        | -2.3         | 1.0          | 0.40               | 0.34                | 14.61              | -2.7                  | 0.3                    |  |
| 421.0       | 1.30       | 162.80               | 421.0        | -4.2         | 1.5          | 0.34               | 0.34                | -1.91              | -4.5                  | 0.2                    |  |
| 511.0       | 1.60       | 158.60               | 510.9        | -8.4         | 2.3          | 0.35               | 0.33                | -4.67              | -8.8                  | -0.2                   |  |
| 601.0       | 1.70       | 157.40               | 600.9        | -8.8         | 3.2          | 0.12               | 0.11                | -1.33              | -9.3                  | -0.4                   |  |
| 781.0       | 1.80       | 153.40               | 780.8        | -14.2        | 5.7          | 0.12               | 0.11                | -2.11              | -15.3                 | -1.2                   |  |
| 875.0       | 2.00       | 157.30               | 874.8        | -16.8        | 6.9          | 0.20               | 0.12                | 4.64               | -18.2                 | -0.1                   |  |
| 935.0       | 2.30       | 158.20               | 934.7        | -18.6        | 8.1          | 0.38               | 0.37                | 1.12               | -21.2                 | 0.2                    |  |
| 1,049.0     | 1.10       | 87.40                | 1,048.7      | -21.4        | 9.7          | 2.14               | -1.28               | -84.68             | -12.3                 | -20.0                  |  |
| 1,143.0     | 1.30       | 55.50                | 1,142.6      | -20.9        | 11.4         | 0.93               | 0.21                | -44.57             | 2.4                   | -23.7                  |  |
| 1,236.0     | 1.10       | 50.20                | 1,235.6      | -19.8        | 13.0         | 0.25               | -0.22               | -5.70              | 2.7                   | -23.5                  |  |
| 1,330.0     | 2.00       | 5.00                 | 1,329.6      | -17.6        | 13.8         | 1.55               | 0.96                | -48.09             | 10.3                  | -15.3                  |  |
| 1,423.0     | 2.60       | 2.60                 | 1,422.5      | -13.8        | 14.1         | 0.65               | 0.65                | -2.68              | 13.2                  | -14.7                  |  |
| 1,517.0     | 2.70       | 1.90                 | 1,516.4      | -9.5         | 14.2         | 0.11               | 0.11                | -0.74              | 9.0                   | -14.5                  |  |
| 1,611.0     | 2.40       | 2.10                 | 1,610.3      | -5.3         | 14.4         | 0.32               | -0.32               | 0.21               | 4.8                   | -14.8                  |  |
| 1,705.0     | 2.10       | 357.80               | 1,704.3      | -1.6         | 14.4         | 0.36               | -0.32               | -4.47              | 2.1                   | -14.3                  |  |
| 1,799.0     | 1.80       | 357.30               | 1,798.2      | 1.6          | 14.3         | 0.32               | -0.32               | -0.64              | -0.9                  | -14.3                  |  |
| 1,891.0     | 1.50       | 346.10               | 1,890.2      | 4.2          | 13.9         | 0.48               | -0.33               | -12.17             | -0.7                  | -14.5                  |  |
| 1,984.0     | 1.50       | 344.70               | 1,983.1      | 6.5          | 13.3         | 0.04               | 0.00                | -1.51              | -2.8                  | -14.5                  |  |
| 2,078.0     | 1.80       | 344.80               | 2,077.1      | 9.2          | 12.6         | 0.32               | 0.32                | 0.11               | -5.5                  | -14.3                  |  |
| 2,171.0     | 1.70       | 343.20               | 2,170.0      | 11.9         | 11.8         | 0.12               | -0.11               | -1.72              | -8.0                  | -14.7                  |  |
| 2,264.0     | 1.70       | 333.50               | 2,263.0      | 14.4         | 10.8         | 0.31               | 0.00                | -10.43             | -8.1                  | -16.1                  |  |
| 2,358.0     | 1.50       | 324.80               | 2,357.0      | 16.7         | 9.4          | 0.30               | -0.21               | -9.26              | -8.2                  | -17.3                  |  |
| 2,452.0     | 1.40       | 318.80               | 2,450.9      | 18.8         | 8.0          | 0.18               | -0.11               | -6.38              | -8.7                  | -18.2                  |  |
| 2,545.0     | 1.10       | 313.50               | 2,543.9      | 20.0         | 6.6          | 0.35               | -0.32               | -5.70              | -9.0                  | -18.1                  |  |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland.    | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |               |                     |                     |                     |                        |                         |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | BuId<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
| 2,639.0      | 1.10       | 318.80               | 2,637.9       | 21.3          | 5.3           | 0.07                | 0.00                | 3.51                | -11.9                  | -18.5                   |
| 2,732.0      | 1.00       | 319.60               | 2,730.9       | 22.6          | 4.2           | 0.12                | -0.11               | 3.01                | -14.5                  | -17.8                   |
| 2,826.0      | 1.10       | 322.70               | 2,824.8       | 23.9          | 3.1           | 0.12                | 0.11                | 3.30                | -17.1                  | -17.0                   |
| 2,920.0      | 1.10       | 333.30               | 2,918.8       | 25.5          | 2.2           | 0.26                | 0.00                | 13.40               | -22.2                  | -12.8                   |
| 3,014.0      | 1.10       | 330.50               | 3,012.8       | 27.1          | 1.4           | 0.10                | 0.00                | -5.11               | -22.9                  | -14.5                   |
| 3,107.0      | 1.10       | 343.10               | 3,105.8       | 28.7          | 0.7           | 0.26                | 0.00                | 13.55               | -27.3                  | -9.0                    |
| 3,199.0      | 1.10       | 350.30               | 3,197.8       | 30.4          | 0.2           | 0.15                | 0.00                | 7.83                | -29.9                  | -5.4                    |
| 3,292.0      | 1.30       | 0.90                 | 3,290.8       | 32.3          | 0.1           | 0.32                | 0.22                | 11.40               | -32.3                  | 0.4                     |
| 3,386.0      | 1.50       | 19.10                | 3,384.8       | 34.8          | 0.5           | 0.52                | 0.21                | 19.36               | -32.8                  | 10.8                    |
| 3,480.0      | 1.10       | 285.40               | 3,478.7       | 36.0          | 0.1           | 2.04                | -0.43               | -99.88              | -8.5                   | -34.7                   |
| 3,573.0      | 2.50       | 266.00               | 3,571.7       | 36.1          | -2.8          | 1.82                | 1.51                | -20.88              | -0.3                   | -38.2                   |
| 3,667.0      | 2.60       | 270.60               | 3,665.8       | 35.9          | -7.0          | 0.24                | 0.11                | 4.89                | -7.4                   | -35.9                   |
| 3,761.0      | 1.10       | 286.00               | 3,759.5       | 36.2          | -10.0         | 1.87                | -1.60               | 16.38               | -19.8                  | -32.1                   |
| 3,855.0      | 0.60       | 43.50                | 3,853.5       | 37.0          | -10.4         | 1.82                | -0.21               | 125.00              | -19.7                  | 33.0                    |
| 3,948.0      | 2.50       | 73.70                | 3,946.5       | 38.1          | -7.9          | 1.91                | 1.72                | 32.47               | -3.1                   | 38.8                    |
| 4,042.0      | 4.00       | 70.70                | 4,040.3       | 39.8          | -2.8          | 1.81                | 1.60                | -3.19               | -10.4                  | 38.5                    |
| 4,135.0      | 3.10       | 72.50                | 4,133.2       | 41.6          | 2.6           | 0.98                | -0.97               | 1.94                | -15.0                  | 38.9                    |
| 4,229.0      | 2.60       | 70.60                | 4,227.0       | 43.1          | 7.1           | 0.54                | -0.53               | -2.02               | -20.9                  | 38.3                    |
| 4,321.0      | 1.80       | 92.90                | 4,318.0       | 43.7          | 10.5          | 1.26                | -0.87               | 24.24               | -8.2                   | 44.2                    |
| 4,414.0      | 1.10       | 156.10               | 4,412.0       | 42.8          | 12.3          | 1.78                | -0.75               | 67.98               | 34.1                   | 28.6                    |
| 4,508.0      | 1.10       | 168.90               | 4,505.9       | 41.1          | 12.8          | 0.26                | 0.00                | 13.62               | 37.8                   | 20.5                    |
| 4,602.0      | 2.60       | 182.00               | 4,599.9       | 38.1          | 12.8          | 1.85                | 1.80                | 13.94               | 38.5                   | 11.8                    |
| 4,696.0      | 1.80       | 136.70               | 4,693.8       | 34.9          | 13.9          | 1.97                | -0.85               | -48.19              | 15.9                   | 34.0                    |
| 4,789.0      | 2.60       | 132.80               | 4,786.7       | 32.4          | 16.4          | 0.87                | 0.86                | -4.19               | 9.9                    | 34.9                    |
| 4,883.0      | 5.80       | 139.40               | 4,880.5       | 27.3          | 21.1          | 3.44                | 3.40                | 7.02                | 7.0                    | 33.8                    |
| 4,977.0      | 9.50       | 141.40               | 4,973.8       | 17.6          | 29.0          | 3.95                | 3.94                | 2.13                | -4.3                   | 33.7                    |
| 5,071.0      | 10.50      | 140.80               | 5,068.2       | 4.9           | 39.3          | 1.07                | 1.06                | -0.64               | -20.7                  | 33.7                    |



Midland PVA

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H           |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0ush |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0ush |
| Well:     | #709H                       | North Reference:             | Grid                 |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature    |
| Design:   | OH                          | Database:                    | EDM 5000.14          |

| MD<br>(ush) | Inc<br>(") | Azi (azimuth)<br>(°) | TVD<br>(ush) | NIS<br>(ush) | EAH<br>(ush) | DLog<br>(°/100ush) | Built<br>(°/100ush) | Turn<br>(°/100ush) | High to Plan<br>(ush) | Right to Plan<br>(ush) |
|-------------|------------|----------------------|--------------|--------------|--------------|--------------------|---------------------|--------------------|-----------------------|------------------------|
| 5,165.0     | 8.90       | 137.00               | 5,158.9      | -7.0         | 48.8         | 1.83               | -1.70               | -4.04              | -38.8                 | 31.7                   |
| 5,258.0     | 8.10       | 138.80               | 5,250.8      | -17.2        | 58.8         | 0.90               | -0.88               | 1.72               | -51.3                 | 33.0                   |
| 5,351.0     | 7.10       | 143.10               | 5,343.0      | -26.7        | 68.8         | 1.25               | -1.08               | 4.84               | -57.7                 | 37.1                   |
| 5,445.0     | 7.60       | 142.50               | 5,436.2      | -36.3        | 73.9         | 0.54               | 0.53                | -0.84              | -63.8                 | 38.0                   |
| 5,539.0     | 8.10       | 143.00               | 5,529.4      | -48.5        | 81.7         | 0.54               | 0.53                | 0.53               | -68.9                 | 38.0                   |
| 5,632.0     | 7.90       | 140.50               | 5,621.5      | -56.7        | 89.7         | 0.43               | -0.22               | -2.69              | -69.4                 | 32.5                   |
| 5,726.0     | 7.70       | 140.80               | 5,714.8      | -66.5        | 97.8         | 0.22               | -0.21               | 0.32               | -69.7                 | 32.6                   |
| 5,820.0     | 7.70       | 138.60               | 5,807.7      | -76.1        | 105.9        | 0.31               | 0.00                | -2.34              | -71.1                 | 29.9                   |
| 5,913.0     | 7.60       | 137.10               | 5,899.9      | -85.3        | 114.2        | 0.24               | -0.11               | -1.61              | -72.0                 | 28.3                   |
| 6,008.0     | 7.50       | 135.20               | 5,994.1      | -94.3        | 122.9        | 0.28               | -0.11               | -2.00              | -73.0                 | 28.7                   |
| 6,101.0     | 7.60       | 134.80               | 6,086.3      | -103.0       | 131.5        | 0.12               | 0.11                | -0.32              | -73.2                 | 27.2                   |
| 6,199.0     | 7.70       | 133.90               | 6,180.4      | -111.8       | 140.8        | 0.18               | 0.11                | -1.05              | -73.9                 | 27.0                   |
| 6,290.0     | 6.90       | 151.60               | 6,273.7      | -121.1       | 147.8        | 2.53               | -0.85               | 18.83              | -61.8                 | 47.3                   |
| 6,384.0     | 6.20       | 132.70               | 6,367.1      | -129.8       | 154.2        | 2.40               | -0.74               | -20.11             | -72.0                 | 24.6                   |
| 6,478.0     | 5.80       | 132.00               | 6,460.8      | -136.2       | 161.5        | 0.43               | -0.43               | -0.74              | -69.8                 | 25.2                   |
| 6,572.0     | 5.50       | 130.30               | 6,554.1      | -142.3       | 168.4        | 0.37               | -0.32               | -1.81              | -67.8                 | 24.9                   |
| 6,665.0     | 4.50       | 129.90               | 6,646.7      | -147.7       | 174.9        | 0.65               | -0.65               | -0.43              | -64.2                 | 26.5                   |
| 6,759.0     | 4.80       | 129.20               | 6,740.4      | -152.8       | 181.0        | 0.12               | -0.11               | -0.74              | -60.3                 | 27.8                   |
| 6,853.0     | 4.70       | 145.20               | 6,834.1      | -158.4       | 188.2        | 1.41               | -0.11               | 17.02              | -45.7                 | 43.1                   |
| 6,946.0     | 4.70       | 143.70               | 6,926.8      | -164.8       | 190.7        | 0.13               | 0.00                | -1.61              | -42.2                 | 40.9                   |
| 7,040.0     | 4.40       | 142.00               | 7,020.5      | -170.8       | 195.2        | 0.35               | -0.32               | -1.81              | -38.5                 | 38.9                   |
| 7,134.0     | 4.60       | 142.10               | 7,114.2      | -178.4       | 199.7        | 0.21               | 0.21                | 0.11               | -33.5                 | 38.4                   |
| 7,227.0     | 4.00       | 149.00               | 7,208.9      | -182.1       | 203.7        | 0.85               | -0.85               | 7.42               | -23.5                 | 40.5                   |
| 7,321.0     | 2.40       | 141.90               | 7,300.8      | -186.5       | 208.6        | 1.75               | -1.70               | -7.55              | -21.2                 | 38.4                   |
| 7,414.0     | 1.80       | 134.60               | 7,393.7      | -189.0       | 208.8        | -0.70              | -0.65               | -7.53              | -18.6                 | 34.3                   |
| 7,508.0     | 1.70       | 142.80               | 7,487.7      | -191.2       | 210.7        | 0.28               | -0.11               | 8.51               | -2.3                  | 35.7                   |
| 7,602.0     | 1.70       | 145.00               | 7,581.8      | -193.4       | 212.3        | 0.07               | 0.00                | 2.23               | 8.5                   | 34.6                   |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Cam           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | BuId<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
| 7,695.0      | 1.50       | 132.20               | 7,674.8       | -195.4        | 214.0        | 0.44                | -0.22               | -13.78              | 8.7                    | 38.6                    |
| 7,788.0      | 1.50       | 128.40               | 7,767.5       | -198.9        | 215.9        | 0.11                | 0.00                | -4.09               | 11.4                   | 38.5                    |
| 7,882.0      | 1.40       | 145.50               | 7,861.5       | -198.7        | 217.5        | 0.47                | -0.11               | 18.19               | 24.6                   | 33.3                    |
| 7,977.0      | 1.10       | 147.50               | 7,956.5       | -200.4        | 218.6        | 0.32                | -0.32               | 2.11                | 25.2                   | 32.3                    |
| 8,068.0      | 1.10       | 150.00               | 8,047.5       | -201.0        | 219.5        | 0.05                | 0.00                | 2.75                | 24.9                   | 31.2                    |
| 8,162.0      | 1.60       | 165.70               | 8,141.5       | -203.8        | 220.3        | 0.66                | 0.33                | 16.70               | 30.2                   | 23.5                    |
| 8,258.0      | 1.80       | 164.60               | 8,235.4       | -206.6        | 221.0        | 0.22                | 0.21                | -1.17               | 26.9                   | 24.1                    |
| 8,350.0      | 1.80       | 165.00               | 8,329.4       | -209.5        | 221.8        | 0.01                | 0.00                | 0.43                | 24.2                   | 23.9                    |
| 8,444.0      | 1.80       | 171.40               | 8,423.3       | -212.4        | 222.4        | 0.21                | 0.00                | 6.81                | 23.7                   | 21.2                    |
| 8,538.0      | 1.90       | 168.70               | 8,517.3       | -215.3        | 222.9        | 0.14                | 0.11                | -2.87               | 18.7                   | 22.2                    |
| 8,631.0      | 2.00       | 185.40               | 8,610.2       | -218.4        | 223.7        | 0.16                | 0.11                | -3.55               | 15.2                   | 23.2                    |
| 8,725.0      | 2.10       | 169.10               | 8,704.2       | -221.7        | 224.4        | 0.18                | 0.11                | 3.94                | 13.3                   | 22.3                    |
| 8,818.0      | 2.30       | 172.40               | 8,797.1       | -225.2        | 225.0        | 0.25                | 0.22                | 3.55                | 11.0                   | 21.6                    |
| 8,911.0      | 2.30       | 174.30               | 8,890.0       | -228.9        | 225.4        | 0.08                | 0.00                | 2.04                | 8.0                    | 21.3                    |
| 9,005.0      | 2.40       | 180.50               | 8,983.9       | -232.8        | 225.6        | 0.29                | 0.11                | 6.70                | 6.4                    | 20.5                    |
| 9,099.0      | 2.10       | 186.50               | 9,077.9       | -236.5        | 225.3        | 0.40                | -0.32               | 6.28                | 4.8                    | 19.9                    |
| 9,182.0      | 2.00       | 190.20               | 9,170.8       | -239.8        | 224.9        | 0.18                | -0.11               | 3.98                | 2.6                    | 18.7                    |
| 9,285.0      | 2.10       | 189.30               | 9,263.7       | -243.0        | 224.0        | 0.37                | 0.11                | 8.78                | 2.5                    | 19.3                    |
| 9,379.0      | 2.00       | 205.80               | 9,357.7       | -246.1        | 222.7        | 0.27                | -0.11               | 6.91                | 1.4                    | 19.0                    |
| 9,474.0      | 2.10       | 209.70               | 9,452.8       | -249.1        | 221.1        | 0.18                | 0.11                | 4.11                | -0.7                   | 18.0                    |
| 9,568.0      | 2.00       | 213.20               | 9,544.6       | -251.9        | 219.4        | 0.17                | -0.11               | 3.80                | -2.9                   | 18.1                    |
| 9,660.0      | 2.30       | 222.10               | 9,638.5       | -254.6        | 217.3        | 0.48                | 0.32                | 8.47                | -3.4                   | 18.6                    |
| 9,753.0      | 2.00       | 234.40               | 9,731.4       | -257.0        | 214.7        | 0.59                | -0.32               | 13.23               | -2.6                   | 20.3                    |
| 9,848.0      | 2.40       | 240.30               | 9,824.4       | -258.9        | 211.7        | 0.49                | 0.43                | 6.34                | -4.0                   | 20.6                    |
| 9,940.0      | 1.20       | 297.50               | 9,918.3       | -259.9        | 209.0        | 1.53                | -1.28               | 28.94               | 3.1                    | 21.1                    |
| 10,034.0     | 0.60       | 351.00               | 10,012.3      | -259.5        | 207.9        | 1.38                | -0.64               | 88.83               | 20.7                   | 0.3                     |
| 10,128.0     | 0.60       | 348.20               | 10,108.3      | -258.5        | 207.8        | 0.03                | 0.00                | -2.98               | 19.6                   | -1.3                    |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |      |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLog<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |      |
| 10,221.0     | 1.00       | 342.50               | 10,199.3      | -257.2        | 207.4         | 0.44                | 0.43                 | -6.13               | 18.1                   |                         | 3.2  |
| 10,316.0     | 1.10       | 330.50               | 10,294.3      | -255.7        | 208.7         | 0.25                | 0.11                 | -12.63              | 15.3                   |                         | 6.7  |
| 10,409.0     | 1.40       | 334.00               | 10,387.3      | -253.9        | 205.8         | 0.33                | 0.32                 | 3.78                | 13.7                   |                         | 5.8  |
| 10,502.0     | 1.50       | 332.10               | 10,480.2      | -251.8        | 204.7         | 0.12                | 0.11                 | -2.04               | 11.1                   |                         | 6.2  |
| 10,596.0     | 1.60       | 324.30               | 10,574.2      | -249.8        | 203.4         | 0.25                | 0.11                 | -8.30               | 7.7                    |                         | 7.5  |
| 10,690.0     | 1.40       | 344.00               | 10,668.2      | -247.4        | 202.3         | 0.58                | -0.21                | 20.96               | 7.4                    |                         | 4.9  |
| 10,784.0     | 1.30       | 15.20                | 10,762.1      | -245.3        | 202.3         | 0.78                | -0.11                | 33.19               | 6.8                    |                         | 1.0  |
| 10,877.0     | 1.70       | 9.40                 | 10,855.1      | -242.9        | 202.8         | 0.46                | 0.43                 | -6.24               | 4.2                    |                         | 1.6  |
| 10,971.0     | 1.80       | 3.80                 | 10,949.1      | -240.1        | 203.1         | 0.21                | 0.11                 | -5.98               | 1.2                    |                         | 1.8  |
| 11,064.0     | 2.10       | 6.90                 | 11,042.0      | -236.9        | 203.4         | 0.34                | 0.32                 | 3.33                | -1.9                   |                         | 1.9  |
| 11,158.0     | 2.20       | 358.80               | 11,135.9      | -233.4        | 203.5         | 0.34                | 0.11                 | -8.82               | -5.6                   |                         | 1.3  |
| 11,252.0     | 2.10       | 359.50               | 11,229.9      | -229.9        | 203.5         | 0.11                | -0.11                | 0.74                | -9.1                   |                         | 1.4  |
| 11,346.0     | 2.00       | 359.10               | 11,323.8      | -226.5        | 203.5         | 0.11                | -0.11                | -0.43               | -12.5                  |                         | 1.3  |
| 11,440.0     | 1.70       | 1.30                 | 11,417.8      | -223.5        | 203.5         | 0.33                | -0.32                | 2.34                | -15.5                  |                         | 1.9  |
| 11,532.0     | 1.50       | 334.50               | 11,509.7      | -221.0        | 203.0         | 0.83                | -0.22                | -29.13              | -17.1                  |                         | -5.9 |
| 11,626.0     | 1.40       | 329.30               | 11,603.7      | -218.9        | 201.9         | 0.18                | -0.11                | -5.53               | -18.9                  |                         | -7.5 |
| 11,719.0     | 0.80       | 3.60                 | 11,698.7      | -217.3        | 201.3         | 0.93                | -0.65                | 38.88               | -21.4                  |                         | 5.0  |
| 11,813.0     | 0.50       | 42.80                | 11,790.7      | -216.4        | 201.6         | 0.55                | -0.32                | 41.70               | -14.3                  |                         | 17.8 |
| 11,905.0     | 0.50       | 43.30                | 11,882.7      | -215.8        | 202.2         | 0.00                | 0.00                 | 0.54                | -15.0                  |                         | 18.0 |
| 11,999.0     | 0.50       | 32.60                | 11,976.7      | -215.1        | 202.7         | 0.10                | 0.00                 | -11.38              | -18.9                  |                         | 14.8 |
| 12,064.0     | 0.40       | 12.30                | 12,041.7      | -214.7        | 202.9         | 0.29                | -0.15                | -31.23              | -23.3                  |                         | 7.2  |
| 12,212.0     | 0.60       | 346.80               | 12,189.7      | -213.4        | 202.8         | 0.20                | 0.14                 | -17.23              | -25.4                  |                         | -3.7 |
| 12,306.0     | 0.70       | 2.00                 | 12,283.7      | -212.4        | 202.7         | 0.21                | 0.11                 | 16.17               | -23.9                  |                         | 3.1  |
| 12,399.0     | 11.10      | 344.50               | 12,376.0      | -203.1        | 200.4         | 11.22               | 11.18                | -18.82              | -14.4                  |                         | 0.8  |
| 12,430.0     | 19.30      | 351.30               | 12,405.9      | -195.2        | 188.8         | 27.03               | 26.45                | 21.94               | -11.9                  |                         | 4.3  |
| 12,492.0     | 26.90      | 354.50               | 12,482.9      | -171.1        | 195.9         | 12.42               | 12.26                | 5.16                | -9.2                   |                         | 7.8  |
| 12,539.0     | 33.30      | 355.10               | 12,503.6      | -147.6        | 193.8         | 13.63               | 13.62                | 1.28                | -7.6                   |                         | 10.0 |



Midland PVA

|           |                             |                              |                      |
|-----------|-----------------------------|------------------------------|----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H           |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0ush |
| Site:     | Philly 31 Fed Com.          | MD Reference:                | KB = 25' @ 3359.0ush |
| Well:     | #709H                       | North Reference:             | Grid                 |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature    |
| Design:   | OH                          | Database:                    | EDM 5000.14          |

| Survey      |            |                      |              |              |              |                    |                     |                    |                       |                        |
|-------------|------------|----------------------|--------------|--------------|--------------|--------------------|---------------------|--------------------|-----------------------|------------------------|
| MD<br>(ush) | Inc<br>(°) | Asl (azimuth)<br>(°) | TVD<br>(ush) | N/S<br>(ush) | E/W<br>(ush) | Drag<br>(°/100ush) | Build<br>(°/100ush) | Turn<br>(°/100ush) | High to Plan<br>(ush) | Right to Plan<br>(ush) |
| 12,586.0    | 41.00      | 355.60               | 12,541.0     | -119.3       | 191.5        | 16.40              | 16.38               | 1.08               | -7.1                  | 12.1                   |
| 12,633.0    | 44.10      | 356.20               | 12,575.6     | -87.6        | 189.2        | 6.85               | 6.60                | 1.28               | -8.2                  | 14.2                   |
| 12,679.0    | 49.00      | 356.20               | 12,607.2     | -54.3        | 187.0        | 10.65              | 10.65               | 0.00               | -4.2                  | 18.2                   |
| 12,726.0    | 54.80      | 355.10               | 12,638.2     | -17.5        | 184.2        | 12.48              | 12.34               | -2.34              | -2.1                  | 18.8                   |
| 12,772.0    | 61.00      | 357.70               | 12,660.7     | 21.4         | 181.8        | 14.30              | 13.48               | 5.65               | 0.4                   | 21.0                   |
| 12,819.0    | 64.90      | 359.90               | 12,682.0     | 63.3         | 180.9        | 9.29               | 8.30                | 4.68               | 3.1                   | 21.4                   |
| 12,866.0    | 68.50      | 1.40                 | 12,700.8     | 108.4        | 181.4        | 8.20               | 7.66                | 3.19               | 7.2                   | 20.5                   |
| 12,913.0    | 72.70      | 1.80                 | 12,716.2     | 150.7        | 182.6        | 8.97               | 8.94                | 0.85               | 12.3                  | 18.9                   |
| 12,960.0    | 76.10      | 1.00                 | 12,728.9     | 196.0        | 183.7        | 7.42               | 7.23                | -1.70              | 18.7                  | 17.5                   |
| 13,059.0    | 81.80      | 2.50                 | 12,739.1     | 283.1        | 188.7        | 16.18              | 16.12               | 1.53               | 27.1                  | 13.6                   |
| 13,152.0    | 87.70      | 0.10                 | 12,739.4     | 387.0        | 188.8        | 5.15               | -4.47               | -2.55              | 27.3                  | 10.7                   |
| 13,246.0    | 88.40      | 359.50               | 12,742.6     | 481.0        | 188.5        | 0.98               | 0.74                | -0.64              | 30.4                  | 10.2                   |
| 13,340.0    | 89.10      | 359.80               | 12,744.7     | 574.9        | 187.9        | 0.81               | 0.74                | 0.32               | 32.3                  | 8.9                    |
| 13,433.0    | 90.00      | 0.10                 | 12,745.4     | 667.9        | 187.9        | 1.02               | 0.97                | 0.32               | 32.9                  | 9.2                    |
| 13,527.0    | 89.30      | 0.10                 | 12,748.0     | 761.9        | 188.0        | 0.74               | -0.74               | 0.00               | 33.4                  | 8.2                    |
| 13,620.0    | 89.30      | 359.90               | 12,747.1     | 854.9        | 188.0        | 0.22               | 0.00                | -0.22              | 34.4                  | 7.4                    |
| 13,714.0    | 89.50      | 0.00                 | 12,748.1     | 948.9        | 187.9        | 0.24               | 0.21                | 0.11               | 35.3                  | 6.6                    |
| 13,807.0    | 89.70      | 359.40               | 12,748.7     | 1,041.9      | 187.5        | 0.68               | 0.22                | -0.65              | 35.8                  | 6.3                    |
| 13,901.0    | 90.10      | 359.80               | 12,748.9     | 1,135.9      | 188.9        | 0.68               | 0.43                | 0.53               | 35.9                  | 6.0                    |
| 13,995.0    | 90.50      | 359.90               | 12,748.4     | 1,229.9      | 188.7        | 0.43               | 0.43                | 0.00               | 35.3                  | 5.4                    |
| 14,088.0    | 90.00      | 359.60               | 12,748.0     | 1,322.9      | 186.3        | 0.63               | -0.54               | -0.32              | 34.8                  | 5.0                    |
| 14,181.0    | 88.50      | 359.20               | 12,749.2     | 1,415.9      | 185.3        | 1.67               | -1.61               | -0.43              | 35.9                  | 6.1                    |
| 14,275.0    | 86.50      | 359.20               | 12,751.7     | 1,509.8      | 184.0        | 0.00               | 0.00                | 0.00               | 36.2                  | 5.6                    |
| 14,368.0    | 90.20      | 0.50                 | 12,752.7     | 1,602.8      | 183.8        | 2.30               | 1.83                | 1.40               | 39.2                  | 5.0                    |
| 14,461.0    | 91.90      | 0.70                 | 12,751.0     | 1,695.8      | 184.8        | 1.84               | 1.83                | 0.22               | 37.4                  | 3.2                    |
| 14,555.0    | 89.60      | 0.40                 | 12,749.8     | 1,789.8      | 185.7        | 2.47               | -2.45               | -0.32              | 38.0                  | 1.5                    |
| 14,648.0    | 90.20      | 359.20               | 12,750.0     | 1,882.8      | 185.3        | 1.44               | 0.85                | -1.29              | 36.1                  | 1.0                    |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey | MD<br>(usft) | Incl<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Buid<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------|--------------|-------------|----------------------|---------------|---------------|---------------|---------------------|---------------------|---------------------|------------------------|-------------------------|
|        | 14,741.0     | 81.50       | 359.50               | 12,748.6      | 1,875.8       | 184.6         | 1.59                | 1.40                | 0.75                | 34.8                   | 0.9                     |
|        | 14,835.0     | 90.00       | 0.50                 | 12,747.4      | 2,069.8       | 185.3         | 1.92                | -1.60               | 1.08                | 33.2                   | -0.5                    |
|        | 14,928.0     | 89.90       | 0.50                 | 12,747.4      | 2,162.8       | 186.4         | 0.44                | -0.11               | -0.43               | 33.2                   | -2.5                    |
|        | 15,022.0     | 90.70       | 359.70               | 12,748.9      | 2,258.7       | 188.8         | 1.20                | 0.85                | -0.85               | 32.8                   | -3.5                    |
|        | 15,115.0     | 92.10       | 359.80               | 12,744.7      | 2,349.7       | 188.2         | 1.52                | 1.51                | 0.22                | 30.1                   | -4.0                    |
|        | 15,209.0     | 90.70       | 0.60                 | 12,742.4      | 2,443.7       | 188.7         | 1.67                | -1.49               | 0.74                | 27.7                   | -5.2                    |
|        | 15,302.0     | 87.80       | 359.20               | 12,743.6      | 2,538.7       | 188.5         | 3.46                | -3.12               | -1.51               | 28.8                   | -5.9                    |
|        | 15,395.0     | 88.70       | 358.80               | 12,746.4      | 2,629.6       | 184.9         | 1.06                | 0.97                | -0.43               | 31.5                   | -5.1                    |
|        | 15,488.0     | 89.30       | 358.10               | 12,748.1      | 2,722.8       | 182.4         | 0.99                | 0.85                | -0.75               | 33.0                   | -3.4                    |
|        | 15,581.0     | 91.10       | 359.90               | 12,747.7      | 2,815.5       | 180.7         | 2.74                | 1.94                | 1.94                | 32.5                   | -2.6                    |
|        | 15,674.0     | 92.50       | 359.30               | 12,744.8      | 2,908.5       | 180.1         | 1.84                | 1.51                | -0.65               | 29.4                   | -2.7                    |
|        | 15,767.0     | 91.50       | 0.90                 | 12,741.8      | 3,001.4       | 180.2         | 2.03                | -1.08               | 1.72                | 26.1                   | -3.7                    |
|        | 15,860.0     | 90.60       | 0.80                 | 12,738.9      | 3,094.4       | 181.8         | 0.97                | -0.97               | -0.11               | 24.2                   | -5.9                    |
|        | 15,953.0     | 89.60       | 359.90               | 12,739.7      | 3,189.4       | 182.2         | 1.42                | -1.05               | -0.95               | 23.9                   | -7.3                    |
|        | 16,048.0     | 91.70       | 0.80                 | 12,738.6      | 3,282.4       | 182.8         | 2.46                | 2.26                | 0.97                | 22.7                   | -8.7                    |
|        | 16,143.0     | 92.80       | 1.00                 | 12,734.9      | 3,377.3       | 184.3         | 1.18                | 1.16                | 0.21                | 18.8                   | -11.0                   |
|        | 16,236.0     | 93.90       | 0.50                 | 12,729.5      | 3,470.1       | 185.5         | 1.30                | 1.18                | -0.54               | 13.3                   | -13.1                   |
|        | 16,329.0     | 90.10       | 359.70               | 12,728.2      | 3,563.0       | 185.6         | 4.18                | -4.09               | -0.88               | 8.9                    | -14.0                   |
|        | 16,423.0     | 80.60       | 359.60               | 12,725.7      | 3,657.0       | 185.1         | 0.54                | 0.53                | -0.11               | 9.2                    | -14.3                   |
|        | 16,517.0     | 89.10       | 359.40               | 12,725.9      | 3,751.0       | 184.2         | 1.61                | -1.60               | -0.21               | 9.3                    | -14.3                   |
|        | 16,611.0     | 89.90       | 359.80               | 12,726.7      | 3,845.0       | 183.8         | 0.95                | 0.85                | 0.43                | 9.9                    | -14.5                   |
|        | 16,704.0     | 88.80       | 359.00               | 12,727.8      | 3,938.0       | 182.6         | 1.48                | -1.18               | -0.86               | 10.9                   | -14.3                   |
|        | 16,798.0     | 90.00       | 359.20               | 12,728.8      | 4,032.0       | 181.1         | 1.28                | 1.28                | 0.21                | 11.6                   | -13.7                   |
|        | 16,892.0     | 89.20       | 358.40               | 12,729.4      | 4,126.0       | 179.2         | 1.20                | -0.85               | -0.85               | 12.0                   | -12.5                   |
|        | 16,985.0     | 92.10       | 359.20               | 12,728.4      | 4,218.8       | 177.2         | 3.23                | 3.12                | 0.88                | 10.6                   | -11.4                   |
|        | 17,078.0     | 90.20       | 359.20               | 12,728.5      | 4,311.9       | 175.9         | 2.04                | -2.04               | 0.60                | 8.4                    | -10.9                   |
|        | 17,172.0     | 90.60       | 359.30               | 12,725.8      | 4,405.9       | 174.7         | 0.44                | 0.43                | 0.11                | 7.4                    | -10.5                   |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| MD<br>(usft) | Inc<br>(°) | Asl (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLog<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
| 17,268.0     | 89.30      | 358.20               | 12,725.9      | 4,499.9       | 172.6         | 1.81                | -1.38                | -1.17               | 7.1                    | -9.3                    |
| 17,360.0     | 90.30      | 358.10               | 12,728.2      | 4,593.8       | 169.6         | 1.07                | 1.06                 | -0.11               | 7.1                    | -7.1                    |
| 17,453.0     | 88.70      | 358.00               | 12,727.1      | 4,686.8       | 166.4         | 1.72                | -1.72                | -0.11               | 7.8                    | -4.7                    |
| 17,548.0     | 89.60      | 358.50               | 12,728.4      | 4,779.7       | 163.8         | 1.11                | 0.97                 | 0.54                | 8.7                    | -2.7                    |
| 17,639.0     | 90.80      | 358.10               | 12,728.1      | 4,872.7       | 161.7         | 1.44                | 1.29                 | 0.65                | 8.0                    | -1.6                    |
| 17,733.0     | 88.90      | 358.60               | 12,728.4      | 4,966.7       | 160.6         | 2.09                | -2.02                | 0.53                | 7.9                    | -1.3                    |
| 17,827.0     | 89.60      | 359.20               | 12,729.6      | 5,060.7       | 159.6         | 0.86                | 0.74                 | -0.43               | 8.8                    | -1.2                    |
| 17,920.0     | 89.00      | 357.90               | 12,730.7      | 5,153.6       | 157.3         | 1.54                | -0.65                | -1.40               | 9.6                    | 0.4                     |
| 18,014.0     | 90.40      | 357.90               | 12,731.2      | 5,247.5       | 153.8         | 1.49                | 1.49                 | 0.00                | 9.8                    | 3.0                     |
| 18,107.0     | 91.10      | 358.50               | 12,730.0      | 5,340.5       | 150.9         | 0.89                | 0.75                 | 0.65                | 8.3                    | 5.1                     |
| 18,200.0     | 92.10      | 359.00               | 12,727.4      | 5,433.4       | 148.8         | 1.20                | 1.08                 | 0.34                | 5.3                    | 8.3                     |
| 18,295.0     | 87.50      | 359.60               | 12,727.7      | 5,528.4       | 147.7         | 4.88                | -4.84                | 0.63                | 5.3                    | 6.6                     |
| 18,389.0     | 88.90      | 1.40                 | 12,730.7      | 5,622.3       | 148.5         | 2.43                | 1.49                 | 1.81                | 7.8                    | 5.0                     |
| 18,482.0     | 89.30      | 1.50                 | 12,732.1      | 5,715.3       | 150.9         | 0.44                | 0.43                 | 0.11                | 8.1                    | 1.8                     |
| 18,575.0     | 90.50      | 1.90                 | 12,732.3      | 5,808.3       | 153.6         | 1.36                | 1.29                 | 0.43                | 8.9                    | -1.8                    |
| 18,668.0     | 90.70      | 2.30                 | 12,731.3      | 5,901.2       | 157.0         | 0.48                | 0.22                 | 0.43                | 7.8                    | -6.0                    |
| 18,762.0     | 89.70      | 1.30                 | 12,731.0      | 5,995.1       | 160.0         | 1.50                | -1.06                | -1.06               | 6.9                    | -9.8                    |
| 18,855.0     | 91.10      | 0.60                 | 12,730.4      | 6,088.1       | 161.5         | 1.68                | 1.51                 | -0.75               | 8.0                    | -12.1                   |
| 18,949.0     | 91.40      | 358.90               | 12,728.3      | 6,182.1       | 161.1         | 1.84                | 0.32                 | -1.81               | 3.6                    | -12.5                   |
| 19,042.0     | 88.90      | 359.30               | 12,728.1      | 6,275.1       | 159.7         | 2.72                | -2.69                | 0.43                | 3.0                    | -11.9                   |
| 19,135.0     | 89.20      | 358.50               | 12,728.6      | 6,368.0       | 157.9         | 0.62                | 0.32                 | -0.66               | 4.2                    | -10.9                   |
| 19,229.0     | 80.60      | 359.20               | 12,729.8      | 6,462.0       | 156.0         | 1.67                | 1.49                 | 0.74                | 4.1                    | -9.9                    |
| 19,322.0     | 91.40      | 358.40               | 12,728.1      | 6,555.0       | 154.0         | 1.22                | 0.86                 | -0.88               | 2.1                    | -8.7                    |
| 19,415.0     | 80.60      | 358.40               | 12,728.5      | 6,647.9       | 151.4         | 0.86                | -0.86                | 0.00                | 0.1                    | -8.9                    |
| 19,508.0     | 89.20      | 359.40               | 12,728.7      | 6,740.9       | 149.7         | 1.85                | -1.51                | 1.08                | 0.0                    | -8.0                    |
| 19,601.0     | 90.30      | 359.40               | 12,727.1      | 6,833.9       | 148.7         | 1.18                | 1.18                 | 0.00                | 0.1                    | -5.8                    |
| 19,695.0     | 90.40      | 0.50                 | 12,726.5      | 6,927.9       | 148.6         | 1.18                | 0.11                 | 1.17                | -0.8                   | -6.8                    |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #709H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3359.0usft |
| Site:     | Philly 31 Fed Com           | MD Reference:                | KB = 25' @ 3359.0usft |
| Well:     | #709H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |              |                     |                      |                     |                        |                         |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| MD<br>(usft) | Inc<br>(") | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
| 19,727.0     | 88.60      | 0.80                 | 12,726.8      | 6,959.9       | 149.0        | 5.70                | -5.62                | 0.94                | -0.7                   | -7.2                    |
| 19,788.0     | 89.00      | 0.50                 | 12,728.1      | 7,020.9       | 149.9        | 0.88                | 0.88                 | 0.18                | 0.4                    | -8.6                    |
| 19,882.0     | 89.80      | 0.80                 | 12,729.1      | 7,114.9       | 151.3        | 0.88                | 0.85                 | -0.11               | 1.0                    | -10.8                   |
| 19,975.0     | 91.30      | 2.10                 | 12,728.2      | 7,207.8       | 153.8        | 2.13                | 1.81                 | 1.40                | -0.2                   | -14.0                   |
| 20,155.0     | 91.30      | 2.10                 | 12,724.1      | 7,387.7       | 160.2        | 0.00                | 0.00                 | 0.00                | -4.9                   | -22.2                   |

| Design Annotations          |                             |                   |                |                                                                             |
|-----------------------------|-----------------------------|-------------------|----------------|-----------------------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                                                                     |
|                             |                             | +N/S<br>(usft)    | +E/W<br>(usft) |                                                                             |
| 12,348.0                    | 12,323.6                    | -210.4            | 202.3          | KOP, MD:12348.0', TVD:12323.6', N/S:-210.4', E/W:202.3', INC:5.16           |
| 12,447.8                    | 12,422.7                    | -189.0            | 187.9          | FTP Crossing, MD:12447.8', TVD:12422.7', N/S:-189.0', E/W:187.9', INC:21.49 |
| 19,975.0                    | 12,728.2                    | 7,207.8           | 153.8          | Last MWD Survey (MD=19975.0')                                               |
| 20,155.0                    | 12,724.1                    | 7,387.7           | 160.2          | Projection to Bit (MD=20155.0')                                             |

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



Lea County, NM (NAD 83 NME)

Philly 31 Fed Com #709H

Plan #1

PROJECT DETAILS: Lea County NM (NAD 83 NME)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Elevation: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #709H

KB = 25' @ 3333.0  
Existing 345119.00  
North 32° 0' 3.443 N  
Long 102° 30' 7.342 W

Adjusts to Grid North  
True North: 4.44°  
Magnetic North: 8.35°  
Magnetic Field  
Strength: 4769.15mT  
Dip Angle: 59.84°  
Date: 01/30/2018  
Model: ICA/2015

To convert a Magnetic Direction to a Grid Direction, Add 8.35°  
To convert a Magnetic Direction to a True Direction, Add 8.35° East  
To convert a True Direction to a Grid Direction, Subtract 8.35°

#### SECTION DETAILS

| Sec | MD      | Inc   | Asi    | TVD     | +N-S   | +E-W  | Dlog  | TFace   | VSect  | Target                               |
|-----|---------|-------|--------|---------|--------|-------|-------|---------|--------|--------------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0   | 0.00  | 0.00    | 0.0    |                                      |
| 2   | 5200.0  | 0.00  | 0.00   | 5200.0  | 0.0    | 0.0   | 0.00  | 0.00    | 0.0    |                                      |
| 3   | 8578.9  | 7.54  | 139.38 | 5575.8  | -18.8  | 16.1  | 2.00  | 138.39  | -18.5  |                                      |
| 4   | 7598.8  | 7.54  | 139.38 | 7581.2  | -220.2 | 188.9 | 0.00  | 0.00    | -216.6 |                                      |
| 5   | 7876.7  | 0.00  | 0.00   | 7857.0  | -239.0 | 205.0 | 2.00  | 180.00  | -235.1 | Brushy Top (Philly 31 Fed Com #709H) |
| 6   | 12254.2 | 0.00  | 0.00   | 12234.5 | -239.0 | 205.0 | 0.00  | 0.00    | -235.1 |                                      |
| 7   | 13003.8 | 89.93 | 359.50 | 12712.0 | 237.9  | 200.8 | 12.00 | 359.50  | 241.6  |                                      |
| 8   | 14762.7 | 89.93 | 359.50 | 12714.0 | 1998.9 | 185.4 | 0.00  | 0.00    | 2000.0 | TGT#1 (Philly 31 Fed Com #709H)      |
| 9   | 14763.7 | 89.91 | 359.50 | 12714.0 | 1997.9 | 185.3 | 2.00  | 180.00  | 2001.0 |                                      |
| 10  | 18763.5 | 89.91 | 359.50 | 12717.0 | 2997.6 | 187.8 | 0.00  | 0.00    | 4000.0 | TGT#2 (Philly 31 Fed Com #709H)      |
| 11  | 18769.3 | 89.80 | 359.50 | 12717.0 | 4003.4 | 187.7 | 2.00  | -180.00 | 4003.9 |                                      |
| 12  | 20154.0 | 89.80 | 359.50 | 12729.0 | 7388.0 | 138.0 | 0.00  | 0.00    | 7389.3 | PBHL (Philly 31 Fed Com #709H)       |

#### CASING DETAILS

No casing data is available

#### WELLBORE TARGET DETAILS (UAP COORDINATES)

| Name                                 | TVD     | +N-S    | +E-W  | North     | East      |
|--------------------------------------|---------|---------|-------|-----------|-----------|
| Brushy Top (Philly 31 Fed Com #709H) | 7876.7  | -239.0  | 205.0 | 345119.00 | 77221.430 |
| TGT#1 (Philly 31 Fed Com #709H)      | 12712.0 | -187.5  | 200.8 | 345119.00 | 77221.430 |
| TGT#2 (Philly 31 Fed Com #709H)      | 12714.0 | -185.3  | 185.4 | 345119.00 | 77221.430 |
| PBHL (Philly 31 Fed Com #709H)       | 12729.0 | -7388.0 | 138.0 | 345119.00 | 77221.430 |

