

District I  
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District IV  
1220 S. St. Francis Dr., Santa 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.  
Santa Fe, NM 87505

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>30-025-46574 | <sup>2</sup> Pool Code<br>98180                   | <sup>3</sup> Pool Name<br>WC025 G09 S253309P; UPPER WOLFCAMP <b>KZ</b> |
| <sup>4</sup> Property Code<br>325949    | <sup>5</sup> Property Name<br>VALIANT 24 FED COM  | <sup>6</sup> Well Number<br>722H                                       |
| <sup>7</sup> GRID No.<br>7377           | <sup>8</sup> Operator Name<br>EOG RESOURCES, INC. | <sup>9</sup> Elevation<br>3456'                                        |

<sup>10</sup>Surface Location

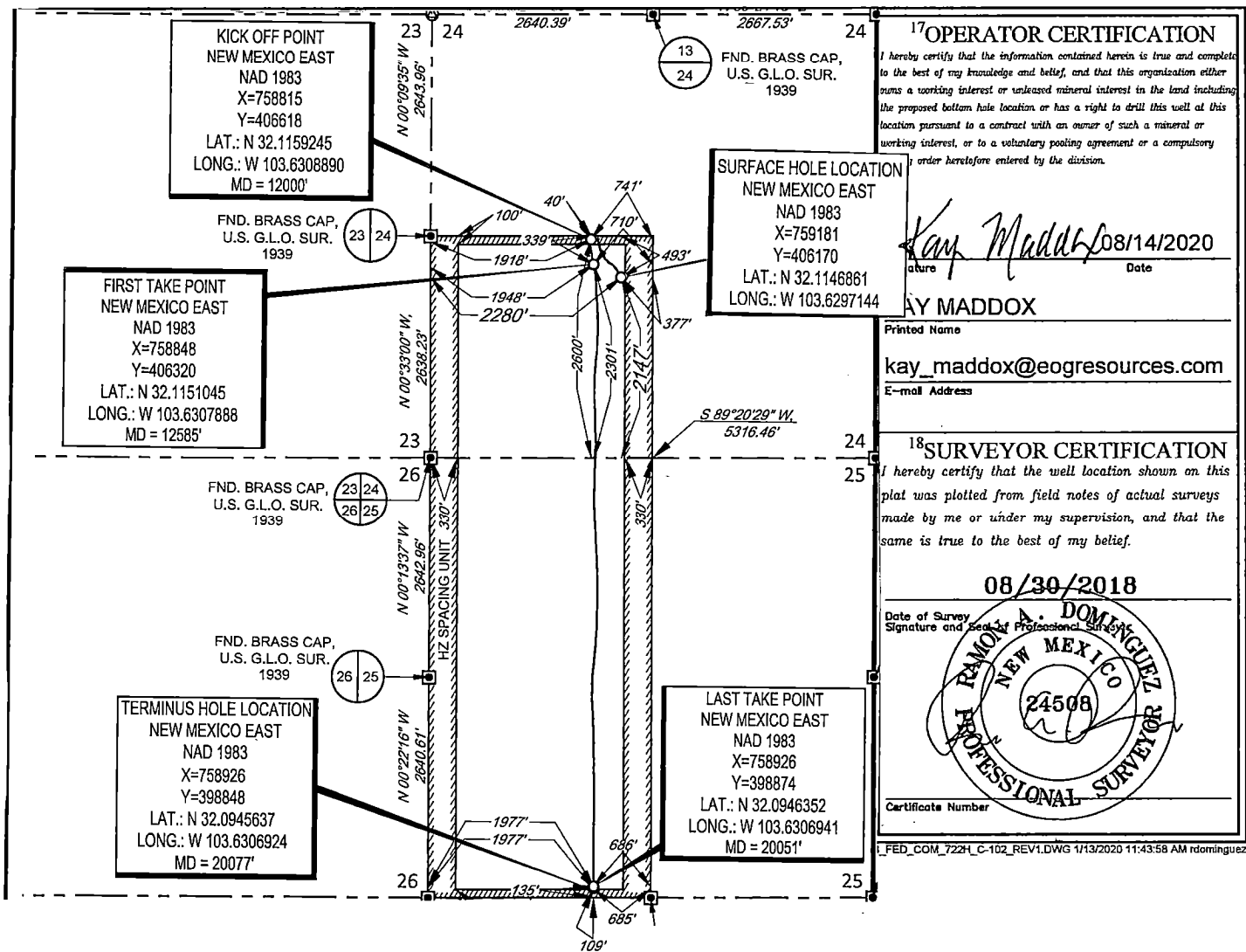
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| K             | 24      | 25-S     | 32-E  | -       | 2147'         | SOUTH            | 2280'         | WEST           | LEA    |

<sup>11</sup>Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 25      | 25-S     | 32-E  | -       | 109'          | SOUTH            | 1977'         | WEST           | LEA    |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>480.00 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|

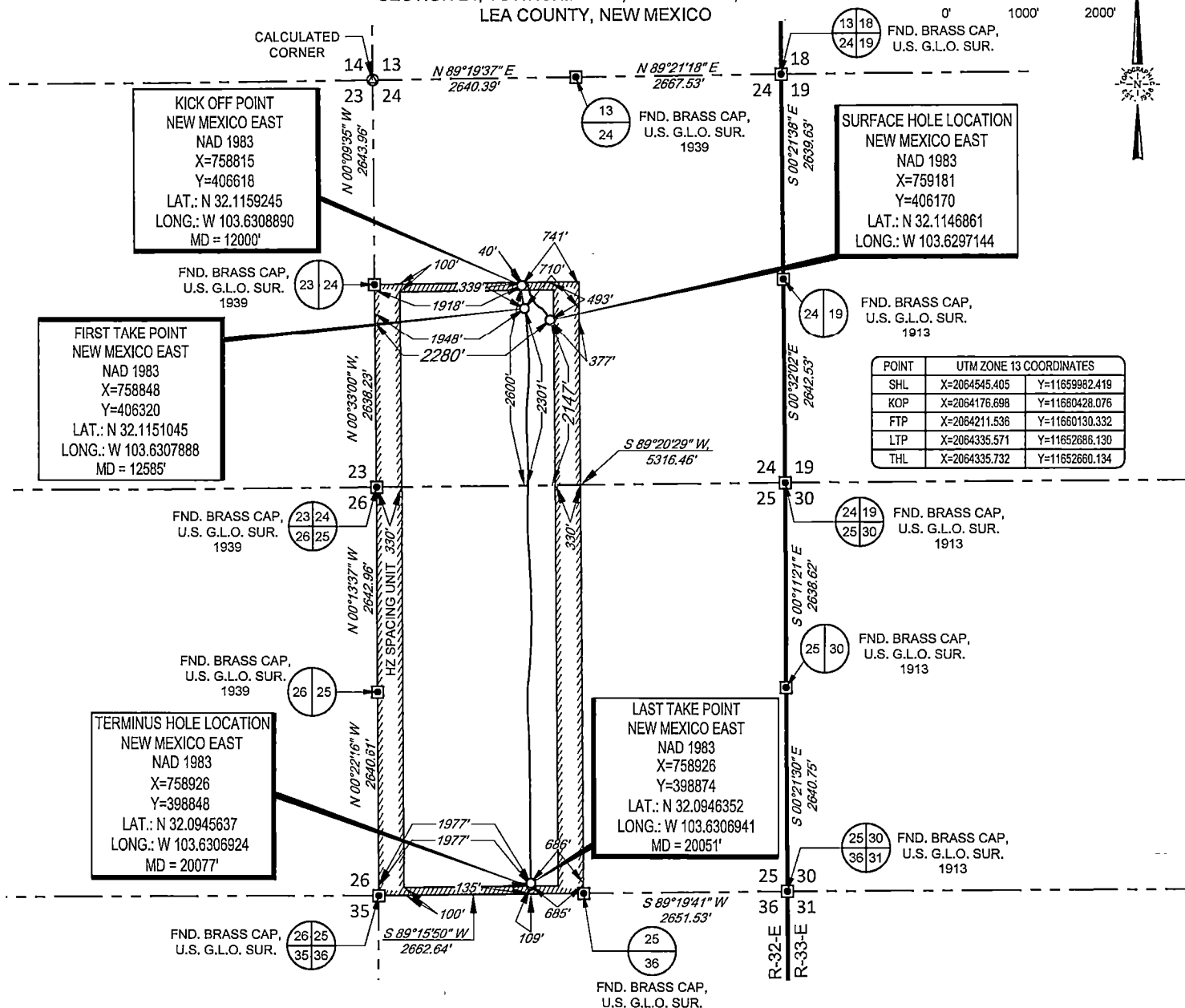
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SECTION 24, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

0' 1000' 2000'



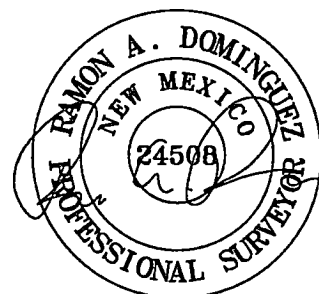
| POINT | UTM ZONE 13 COORDINATES |                |
|-------|-------------------------|----------------|
| SHL   | X=2064545.405           | Y=11659982.419 |
| KOP   | X=2064176.698           | Y=11660428.076 |
| FTP   | X=2064211.536           | Y=11660130.332 |
| LTP   | X=2064335.571           | Y=11652686.130 |
| THL   | X=2064335.732           | Y=11652660.134 |

LEASE NAME & WELL NO.: VALIANT 24 FED COM #722H  
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM ELEVATION 3456'  
DESCRIPTION 2147' FSL & 2280' FWL



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508  
JUNE 15, 2020

**Geog resources, Inc.**

|                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VALIANT 24 FED COM<br>722H<br>AS-COMplete | REVISION: | <p>NOTES:</p> <ol style="list-style-type: none"> <li>1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"</li> <li>2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.</li> <li>3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.</li> <li>4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.</li> </ol> |
| DATE: 06/15/2020                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| FILE:AD_VALIANT_24_FED_COM_722H           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DRAWN BY: EAH                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SHEET: 1 OF 1                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



Rec'd 8/24/2020 - NMOCD

## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#722H

OH

Design: OH

**Final PVA**

15 April, 2020



# EOG Resources

Final PVA

|                                             |  |                                     |  |                          |  |
|---------------------------------------------|--|-------------------------------------|--|--------------------------|--|
| <b>Company:</b> EOG Resources - Midland     |  | <b>Local Co-ordinate Reference:</b> |  | <b>Well #722H</b>        |  |
| <b>Project:</b> Lea County, NM (NAD 83 NME) |  | <b>TVD Reference:</b>               |  | KB = 25 @ 3481.0usft     |  |
| <b>Site:</b> Valiant 24 Fed Com             |  | <b>MD Reference:</b>                |  | KB = 25 @ 3481.0usft     |  |
| <b>Well:</b> #722H                          |  | <b>North Reference:</b>             |  | Grid                     |  |
| <b>Wellbore:</b> OH                         |  | <b>Survey Calculation Method:</b>   |  | Minimum Curvature        |  |
| <b>Design:</b> OH                           |  | <b>Database:</b>                    |  | EDM 5000.14              |  |
| <b>Project</b> Lea County, NM (NAD 83 NME)  |  |                                     |  |                          |  |
| <b>Map System:</b> US State Plane 1983      |  |                                     |  |                          |  |
| <b>Geo Datum:</b> North American Datum 1983 |  |                                     |  |                          |  |
| <b>Map Zone:</b> New Mexico Eastern Zone    |  |                                     |  |                          |  |
| <b>System Datum:</b> Mean Sea Level         |  |                                     |  |                          |  |
| <b>Site</b> Valiant 24 Fed Com              |  |                                     |  |                          |  |
| <b>Site Position:</b>                       |  | <b>Northings:</b>                   |  | <b>Latitude:</b>         |  |
| <b>From:</b>                                |  | <b>Easting:</b>                     |  | <b>Longitude:</b>        |  |
| <b>Position Uncertainty:</b>                |  | <b>Slot Radius:</b>                 |  | <b>Grid Convergence:</b> |  |
|                                             |  | 406,151.00 usft                     |  | 32° 6' 52.620 N          |  |
|                                             |  | 760,107.00 usft                     |  | 103° 37' 36.212 W        |  |
|                                             |  | 13-3/16 "                           |  | 0.38 °                   |  |
| <b>Well</b> #722H                           |  |                                     |  |                          |  |
| <b>Well Position</b>                        |  | <b>Northings:</b>                   |  | <b>Latitude:</b>         |  |
|                                             |  | <b>Easting:</b>                     |  | <b>Longitude:</b>        |  |
| <b>Position Uncertainty</b>                 |  | <b>Wellhead Elevation:</b>          |  | <b>Ground Level:</b>     |  |
|                                             |  | 406,170.00 usft                     |  | 32° 6' 52.868 N          |  |
|                                             |  | 759,181.00 usft                     |  | 103° 37' 46.977 W        |  |
|                                             |  | usft                                |  | 3,456.0 usft             |  |
| <b>Wellbore</b> OH                          |  |                                     |  |                          |  |
| <b>Magnetics</b>                            |  |                                     |  |                          |  |
| <b>Model Name</b>                           |  | <b>Sample Date</b>                  |  | <b>Dip Angle</b>         |  |
|                                             |  |                                     |  | <b>(°)</b>               |  |
| <b>IGRF2020</b>                             |  | <b>3/24/2020</b>                    |  | <b>59.83</b>             |  |
|                                             |  | <b>6.71</b>                         |  | <b>47,550.62729049</b>   |  |
| <b>Design</b> OH                            |  |                                     |  |                          |  |
| <b>Audit Notes:</b>                         |  |                                     |  |                          |  |
| <b>Version:</b>                             |  | <b>Phase:</b>                       |  | <b>Tie On Depth:</b>     |  |
| 1.0                                         |  | ACTUAL                              |  | 0.0                      |  |
| <b>Vertical Section:</b>                    |  | <b>Depth From (TVD)</b>             |  | <b>Direction</b>         |  |
|                                             |  | <b>(usft)</b>                       |  | <b>(°)</b>               |  |
|                                             |  | 0.0                                 |  | 181.97                   |  |
| <b>Survey Program</b> Date 4/15/2020        |  |                                     |  |                          |  |
| <b>From</b>                                 |  | <b>To</b>                           |  | <b>Description</b>       |  |
| <b>(usft)</b>                               |  | <b>(usft)</b>                       |  | <b>Survey (Wellbore)</b> |  |
|                                             |  |                                     |  | <b>Tool Name</b>         |  |
|                                             |  |                                     |  | <b>EOG MWD+IFR1</b>      |  |
| 199.0                                       |  | 20,077.0                            |  | MWD + IFR1               |  |
|                                             |  | Trueshot MWD #1 (OH)                |  |                          |  |



EOG Resources  
Final PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Vallant 24 Fed Com  
Well: #722H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference: KB = 25 @ 3481.0usft  
MD Reference: KB = 25 @ 3481.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature.  
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) |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 0.0          | 0.00       | 0.00                 | 0.0           | 0.0           | 0.0          | 0.00                | 0.00                 | 0.00                | 0.0                    | 0.0                     |
| 199.0        | 0.70       | 161.41               | 199.0         | -1.2          | 0.4          | 0.35                | 0.35                 | 0.00                | 0.00                   | 0.0                     |
| 323.0        | 0.66       | 187.42               | 323.0         | -2.6          | 0.5          | 0.25                | -0.03                | 20.98               | 0.0                    | 0.0                     |
| 505.0        | 1.01       | 185.49               | 505.0         | -5.2          | 0.2          | 0.19                | 0.19                 | -1.06               | 0.0                    | 0.0                     |
| 694.0        | 0.97       | 198.94               | 693.9         | -8.4          | -0.4         | 0.12                | -0.02                | 7.12                | 0.0                    | 0.0                     |
| 879.0        | 0.84       | 183.82               | 878.9         | -11.2         | -1.0         | 0.15                | -0.07                | -8.17               | 0.0                    | 0.0                     |
| 984.0        | 0.48       | 196.56               | 983.9         | -12.4         | -1.2         | 0.37                | -0.34                | 12.13               | 0.3                    | -0.2                    |
| 1,176.0      | 0.70       | 197.18               | 1,175.9       | -14.3         | -1.8         | 0.11                | 0.11                 | 0.32                | -0.9                   | -0.4                    |
| 1,367.0      | 0.79       | 199.46               | 1,366.9       | -16.7         | -2.6         | 0.05                | 0.05                 | 1.19                | -3.4                   | -0.3                    |
| 1,558.0      | 0.48       | 172.22               | 1,557.9       | -18.7         | -2.9         | 0.22                | -0.16                | -14.26              | -4.8                   | -2.4                    |
| 1,750.0      | 0.66       | 186.63               | 1,749.9       | -20.6         | -2.9         | 0.12                | 0.09                 | 7.51                | -7.1                   | -0.9                    |
| 1,941.0      | 0.57       | 203.33               | 1,940.9       | -22.6         | -3.4         | 0.10                | -0.05                | 8.74                | -9.1                   | 1.5                     |
| 2,132.0      | 0.22       | 301.06               | 2,131.8       | -23.2         | -4.1         | 0.33                | -0.18                | 51.17               | 2.5                    | 9.8                     |
| 2,324.0      | 0.84       | 342.37               | 2,323.8       | -21.7         | -4.8         | 0.36                | 0.32                 | 21.52               | 6.6                    | 5.9                     |
| 2,515.0      | 1.41       | 352.39               | 2,514.8       | -18.0         | -5.6         | 0.31                | 0.30                 | 5.25                | 3.8                    | 4.9                     |
| 2,706.0      | 4.13       | 335.87               | 2,705.6       | -9.4          | -8.7         | 1.47                | 1.42                 | -8.65               | -6.9                   | 5.2                     |
| 2,897.0      | 4.92       | 344.13               | 2,896.0       | 4.7           | -13.8        | 0.54                | 0.41                 | 4.32                | -21.0                  | 7.1                     |
| 3,089.0      | 5.67       | 340.00               | 3,087.1       | 21.6          | -19.3        | 0.44                | 0.39                 | -2.15               | -37.9                  | 4.6                     |
| 3,282.0      | 6.07       | 341.67               | 3,279.1       | 40.2          | -25.7        | 0.23                | 0.21                 | 0.87                | -45.4                  | 2.6                     |
| 3,471.0      | 6.15       | 328.92               | 3,467.1       | 58.4          | -34.1        | 0.72                | 0.04                 | -6.75               | -41.1                  | -10.7                   |
| 3,663.0      | 6.20       | 333.23               | 3,658.0       | 76.4          | -44.1        | 0.24                | 0.03                 | 2.24                | -36.7                  | -9.9                    |
| 3,853.0      | 7.30       | 320.66               | 3,846.6       | 94.9          | -56.3        | 0.97                | 0.58                 | -6.62               | -30.3                  | -17.3                   |
| 4,045.0      | 7.08       | 317.76               | 4,037.1       | 113.1         | -72.0        | 0.22                | -0.11                | -1.51               | -27.8                  | -15.6                   |
| 4,236.0      | 6.37       | 322.95               | 4,226.8       | 130.3         | -86.3        | 0.49                | -0.37                | 2.72                | -25.6                  | -10.5                   |
| 4,427.0      | 7.78       | 309.76               | 4,416.4       | 147.0         | -102.7       | 1.12                | 0.74                 | -6.91               | -21.1                  | -11.1                   |
| 4,618.0      | 5.10       | 287.00               | 4,606.2       | 157.8         | -120.7       | 1.91                | -1.40                | -11.92              | -15.7                  | -7.1                    |
| 4,810.0      | 9.49       | 305.90               | 4,796.6       | 169.6         | -141.7       | 2.58                | 2.29                 | 9.84                | -16.8                  | 10.1                    |



# EOG Resources

## Final PVA

Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Vallant 24 Fed Com  
 Well: #722H  
 Wellbore: OH  
 Design: OH

Local Co-ordinate Reference:  
 TVD Reference:  
 MID Reference:  
 North Reference:  
 Survey Calculation Method:  
 Database:

Well: #722H  
 KB = 25 @ 3481.0usft  
 KB = 25 @ 3481.0usft  
 Grid  
 Minimum Curvature  
 EDM 5000.14

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | D Leg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|--------------|----------------------|----------------------|---------------------|------------------------|-------------------------|
| 5,001.0      | 9.67       | 315.13               | 4,985.0       | 190.2         | -165.8       | 0.81                 | 0.09                 | 4.83                | -21.3                  | 20.2                    |
| 5,192.0      | 9.67       | 314.51               | 5,173.2       | 212.8         | -188.5       | 0.05                 | 0.00                 | -0.32               | -28.5                  | 25.1                    |
| 5,384.0      | 9.10       | 332.62               | 5,362.7       | 237.6         | -207.0       | 1.56                 | -0.30                | 9.43                | -24.2                  | 34.8                    |
| 5,575.0      | 9.45       | 332.53               | 5,551.2       | 264.9         | -221.2       | 0.18                 | 0.18                 | -0.05               | -29.5                  | 31.9                    |
| 5,766.0      | 5.32       | 333.32               | 5,740.6       | 286.7         | -232.4       | 2.16                 | -2.16                | 0.41                | -28.1                  | 29.4                    |
| 5,958.0      | 4.31       | 329.89               | 5,931.9       | 300.9         | -240.0       | 0.55                 | -0.53                | -1.79               | -20.0                  | 25.5                    |
| 6,149.0      | 5.93       | 328.57               | 6,122.1       | 315.5         | -248.8       | 0.85                 | 0.85                 | -0.69               | -11.8                  | 23.9                    |
| 6,340.0      | 6.90       | 343.43               | 6,312.0       | 335.0         | -257.2       | 1.00                 | 0.51                 | 7.78                | -1.7                   | 21.0                    |
| 6,531.0      | 6.64       | 345.10               | 6,501.6       | 356.6         | -263.3       | 0.17                 | -0.14                | 0.87                | 0.8                    | 13.1                    |
| 6,722.0      | 6.55       | 340.88               | 6,691.4       | 377.6         | -269.7       | 0.26                 | -0.05                | -2.21               | 2.9                    | 5.9                     |
| 6,914.0      | 5.71       | 340.00               | 6,882.3       | 396.9         | -276.6       | 0.44                 | -0.44                | -0.46               | 7.4                    | -0.4                    |
| 7,105.0      | 5.27       | 351.95               | 7,072.4       | 414.5         | -281.1       | 0.64                 | -0.23                | 6.26                | 11.6                   | -10.7                   |
| 7,296.0      | 3.82       | 338.49               | 7,262.8       | 429.1         | -284.6       | 0.94                 | -0.76                | -7.05               | 13.3                   | -12.9                   |
| 7,488.0      | 2.64       | 17.87                | 7,454.5       | 439.3         | -285.6       | 1.27                 | -0.61                | 20.51               | -5.6                   | -16.5                   |
| 7,679.0      | 2.20       | 12.95                | 7,645.3       | 447.1         | -283.4       | 0.25                 | -0.23                | -2.58               | -12.2                  | -17.3                   |
| 7,870.0      | 1.76       | 1.61                 | 7,836.2       | 453.6         | -282.5       | 0.31                 | -0.23                | -5.94               | -15.1                  | -20.1                   |
| 8,061.0      | 0.57       | 97.50                | 8,027.2       | 456.4         | -281.5       | 1.00                 | -0.62                | 50.20               | -19.0                  | 20.0                    |
| 8,252.0      | 0.57       | 112.70               | 8,218.2       | 455.9         | -279.7       | 0.08                 | 0.00                 | 7.96                | -15.0                  | 24.6                    |
| 8,443.0      | 0.48       | 127.47               | 8,409.2       | 455.0         | -278.2       | 0.08                 | -0.05                | 7.73                | -10.0                  | 27.8                    |
| 8,633.0      | 0.66       | 224.59               | 8,599.2       | 453.8         | -278.3       | 0.45                 | 0.09                 | 51.12               | 27.8                   | 7.2                     |
| 8,824.0      | 0.88       | 215.27               | 8,790.2       | 451.8         | -279.9       | 0.13                 | 0.12                 | -4.88               | 23.8                   | 11.5                    |
| 9,016.0      | 1.23       | 231.27               | 8,982.1       | 449.3         | -282.4       | 0.24                 | 0.18                 | 8.33                | 22.5                   | 4.9                     |
| 9,207.0      | 0.79       | 253.59               | 9,173.1       | 447.6         | -285.3       | 0.30                 | -0.23                | 11.69               | 19.5                   | -3.3                    |
| 9,398.0      | 1.01       | 319.16               | 9,364.1       | 448.5         | -287.6       | 0.52                 | 0.12                 | 34.33               | 2.8                    | -17.9                   |
| 9,590.0      | 1.19       | 354.84               | 9,556.0       | 451.8         | -288.9       | 0.36                 | 0.09                 | 18.58               | -11.5                  | -15.2                   |
| 9,781.0      | 2.33       | 347.11               | 9,746.9       | 457.6         | -289.9       | 0.61                 | 0.60                 | -4.05               | -15.2                  | -16.9                   |
| 9,972.0      | 1.67       | 301.14               | 9,937.8       | 462.8         | -293.2       | 0.88                 | -0.35                | -24.07              | -3.9                   | -25.4                   |



# EOG Resources Final PVA

**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Vallant 24 Fed Com  
**Well:** #722H  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:** KB = 25 @ 3481.0usft  
**MD Reference:** KB = 25 @ 3481.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**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) |
|------------------------------------------------------------------------------|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
|                                                                              | 10,164.0     | 1.05       | 238.04               | 10,129.8      | 463.3         | -297.1       | 0.79                | -0.32                | -32.86              | 17.9                   | -17.5                   |
|                                                                              | 10,355.0     | 0.75       | 231.18               | 10,320.8      | 461.6         | -299.5       | 0.17                | -0.16                | -3.59               | 16.9                   | -15.4                   |
|                                                                              | 10,546.0     | 0.53       | 244.63               | 10,511.8      | 460.4         | -301.3       | 0.14                | -0.12                | 7.04                | 10.7                   | -18.6                   |
|                                                                              | 10,738.0     | 0.75       | 269.41               | 10,703.7      | 460.0         | -303.4       | 0.18                | 0.11                 | 12.91               | -0.2                   | -21.0                   |
|                                                                              | 10,929.0     | 1.93       | 239.97               | 10,894.7      | 458.4         | -307.4       | 0.70                | 0.62                 | -15.41              | 5.9                    | -19.0                   |
|                                                                              | 11,120.0     | 1.89       | 242.78               | 11,085.6      | 455.4         | -313.0       | 0.05                | -0.02                | 1.47                | -1.4                   | -19.1                   |
|                                                                              | 11,311.0     | 4.53       | 247.09               | 11,276.3      | 451.0         | -322.7       | 1.39                | 1.38                 | 2.26                | -13.5                  | -18.7                   |
|                                                                              | 11,503.0     | 4.22       | 251.31               | 11,467.7      | 445.8         | -336.4       | 0.23                | -0.16                | 2.20                | -29.5                  | -17.2                   |
|                                                                              | 11,598.0     | 4.31       | 244.63               | 11,562.4      | 443.1         | -343.0       | 0.53                | 0.09                 | -7.03               | -34.3                  | -20.9                   |
|                                                                              | 11,724.0     | 2.81       | 308.00               | 11,688.2      | 443.0         | -349.7       | 3.13                | -1.19                | 50.29               | -39.2                  | 25.6                    |
|                                                                              | 11,819.0     | 4.35       | 289.80               | 11,783.1      | 445.6         | -354.9       | 2.00                | 1.62                 | -19.16              | -51.1                  | 11.4                    |
|                                                                              | 11,915.0     | 3.87       | 287.40               | 11,878.8      | 447.8         | -361.4       | 0.53                | -0.50                | -2.50               | -58.4                  | 9.0                     |
|                                                                              | 12,011.0     | 3.38       | 256.82               | 11,974.6      | 448.2         | -367.3       | 2.05                | -0.51                | -31.85              | -60.5                  | -23.6                   |
|                                                                              | 12,048.0     | 7.98       | 210.56               | 12,011.5      | 445.7         | -369.6       | 16.61               | 12.43                | -124.97             | -27.9                  | -60.9                   |
| <b>KOP (VAL 24 FC #722H)</b>                                                 |              |            |                      |               |               |              |                     |                      |                     |                        |                         |
|                                                                              | 12,107.0     | 17.41      | 197.49               | 12,069.0      | 433.7         | -374.4       | 16.61               | 15.98                | -22.16              | -22.7                  | -67.7                   |
|                                                                              | 12,202.0     | 26.42      | 183.25               | 12,157.1      | 399.0         | -379.9       | 10.95               | 9.48                 | -14.99              | -21.4                  | -76.1                   |
|                                                                              | 12,225.1     | 28.10      | 178.35               | 12,177.6      | 388.4         | -380.0       | 12.12               | 7.26                 | -21.20              | -18.7                  | -77.7                   |
| <b>HL Crossing, MD:12225.1, TVD:12177.6, N/S:388.4, EW:-380.0, INC:28.10</b> |              |            |                      |               |               |              |                     |                      |                     |                        |                         |
|                                                                              | 12,298.0     | 34.29      | 166.11               | 12,240.0      | 351.2         | -374.6       | 12.12               | 8.49                 | -16.79              | -12.8                  | -76.1                   |
|                                                                              | 12,393.0     | 42.37      | 168.66               | 12,314.5      | 293.8         | -361.8       | 8.67                | 8.51                 | 2.68                | -21.7                  | -63.4                   |
|                                                                              | 12,480.2     | 45.93      | 170.93               | 12,362.7      | 247.7         | -353.6       | 5.80                | 5.30                 | 3.38                | -21.9                  | -54.3                   |
| <b>FTP (VAL 24 FC #722H)</b>                                                 |              |            |                      |               |               |              |                     |                      |                     |                        |                         |
|                                                                              | 12,489.0     | 47.47      | 171.82               | 12,382.4      | 227.0         | -350.4       | 5.80                | 5.34                 | 3.09                | -19.9                  | -50.8                   |
|                                                                              | 12,585.0     | 61.45      | 164.27               | 12,438.1      | 151.0         | -333.9       | 15.89               | 14.56                | -7.86               | -10.3                  | -34.2                   |
|                                                                              | 12,681.0     | 75.43      | 169.10               | 12,473.3      | 64.3          | -313.5       | 15.29               | 14.56                | 5.03                | -7.7                   | -13.3                   |
|                                                                              | 12,776.0     | 88.40      | 176.75               | 12,486.7      | -28.8         | -302.1       | 15.80               | 13.65                | 8.05                | -6.2                   | -2.2                    |



EOG Resources  
Final PVA

|                                      |            |                      |                              |               |               |                      |                      |                     |                        |                         |
|--------------------------------------|------------|----------------------|------------------------------|---------------|---------------|----------------------|----------------------|---------------------|------------------------|-------------------------|
| Company: EOG Resources - Midland     |            |                      | Local Co-ordinate Reference: |               |               | Well #722H           |                      |                     |                        |                         |
| Project: Lea County, NM (NAD 83 NME) |            |                      | TVD Reference:               |               |               | KB = 25 @ 3481.0usft |                      |                     |                        |                         |
| Site: Vallant 24 Fed Com             |            |                      | MD Reference:                |               |               | KB = 25 @ 3481.0usft |                      |                     |                        |                         |
| Well: #722H                          |            |                      | 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)  | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
| 12,872.0                             | 87.30      | 177.01               | 12,490.3                     | -124.6        | -296.9        | 1.18                 | -1.15                | 0.27                | -2.4                   | 2.4                     |
| 12,968.0                             | 87.08      | 176.75               | 12,495.0                     | -220.3        | -291.6        | 0.35                 | -0.23                | -0.27               | 2.5                    | 7.0                     |
| 13,064.0                             | 88.44      | 176.04               | 12,498.8                     | -316.1        | -285.6        | 1.60                 | 1.42                 | -0.74               | 6.5                    | 12.4                    |
| 13,159.0                             | 90.81      | 178.50               | 12,499.4                     | -410.9        | -281.1        | 3.60                 | 2.49                 | 2.59                | 7.4                    | 16.3                    |
| 13,255.0                             | 91.87      | 177.27               | 12,497.1                     | -506.9        | -277.5        | 1.69                 | 1.10                 | -1.28               | 5.5                    | 19.2                    |
| 13,350.0                             | 90.29      | 180.61               | 12,495.3                     | -601.8        | -275.8        | 3.89                 | -1.66                | 3.52                | 3.9                    | 20.4                    |
| 13,446.0                             | 92.22      | 181.05               | 12,493.2                     | -697.8        | -277.2        | 2.06                 | 2.01                 | 0.46                | 2.1                    | 18.4                    |
| 13,542.0                             | 88.40      | 182.37               | 12,492.7                     | -793.7        | -280.0        | 4.21                 | -3.98                | 1.37                | 1.8                    | 14.9                    |
| 13,637.0                             | 90.37      | 183.34               | 12,493.7                     | -888.6        | -284.8        | 2.31                 | 2.07                 | 1.02                | 3.1                    | 9.5                     |
| 13,733.0                             | 88.31      | 185.01               | 12,494.8                     | -984.3        | -291.8        | 2.76                 | -2.15                | 1.74                | 4.5                    | 1.9                     |
| 13,829.0                             | 86.68      | 183.60               | 12,499.0                     | -1,079.9      | -299.0        | 2.24                 | -1.70                | -1.47               | 8.9                    | -5.9                    |
| 13,924.0                             | 88.26      | 184.04               | 12,503.2                     | -1,174.6      | -305.3        | 1.73                 | 1.66                 | 0.46                | 13.4                   | -12.9                   |
| 14,029.0                             | 86.37      | 180.18               | 12,508.2                     | -1,279.4      | -309.1        | 4.09                 | -1.80                | -3.68               | 18.6                   | -17.5                   |
| 14,125.0                             | 88.97      | 179.21               | 12,512.1                     | -1,375.3      | -308.6        | 2.89                 | 2.71                 | -1.01               | 22.7                   | -17.5                   |
| 14,220.0                             | 90.64      | 177.46               | 12,512.4                     | -1,470.3      | -305.9        | 2.55                 | 1.76                 | -1.84               | 23.3                   | -15.4                   |
| 14,241.7                             | 90.70      | 177.32               | 12,512.1                     | -1,491.9      | -304.9        | 0.70                 | 0.27                 | -0.65               | 23.1                   | -14.6                   |
| TGT#1 (VAL 24 FC #722H)              |            |                      |                              |               |               |                      |                      |                     |                        |                         |
| 14,316.0                             | 90.90      | 176.84               | 12,511.1                     | -1,566.2      | -301.1        | 0.70                 | 0.27                 | -0.65               | 22.4                   | -11.3                   |
| 14,412.0                             | 91.43      | 178.16               | 12,509.1                     | -1,662.0      | -296.9        | 1.48                 | 0.55                 | 1.37                | 20.9                   | -7.7                    |
| 14,507.0                             | 91.43      | 178.07               | 12,506.8                     | -1,757.0      | -293.8        | 0.09                 | 0.00                 | -0.09               | 19.0                   | -5.2                    |
| 14,603.0                             | 91.52      | 178.42               | 12,504.3                     | -1,852.9      | -290.9        | 0.38                 | 0.09                 | 0.36                | 17.0                   | -2.9                    |
| 14,698.0                             | 90.42      | 178.25               | 12,502.7                     | -1,947.8      | -288.1        | 1.17                 | -1.16                | -0.18               | 15.8                   | -0.8                    |
| 14,794.0                             | 91.30      | 180.09               | 12,501.2                     | -2,043.8      | -286.7        | 2.12                 | 0.92                 | 1.92                | 14.8                   | 0.0                     |
| 14,890.0                             | 91.60      | 182.38               | 12,498.8                     | -2,139.7      | -288.8        | 2.41                 | 0.31                 | 2.39                | 12.8                   | -2.7                    |
| 14,985.0                             | 90.77      | 180.45               | 12,496.9                     | -2,234.7      | -291.1        | 2.21                 | -0.87                | -2.03               | 11.3                   | -5.7                    |
| 15,081.0                             | 91.74      | 184.22               | 12,494.7                     | -2,330.6      | -295.0        | 4.05                 | 1.01                 | 3.93                | 9.7                    | -10.2                   |
| 15,177.0                             | 89.10      | 179.57               | 12,494.0                     | -2,426.5      | -298.2        | 5.57                 | -2.75                | -4.84               | 9.4                    | -14.0                   |



EOG Resources  
Final PVA

Company: EOG Resources - Midland.  
Project: Lea County, NM (NAD 83 NME)  
Site: Vallant 24 Fed Com  
Well: #722H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference: KB = 25 @ 3481.0usft  
MD Reference: KB = 25 @ 3481.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
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) |
|-------------------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 15,272.0                | 90.59      | 180.45               | 12,494.3      | -2,521.5      | -298.2       | 1.82                | 1.57                 | 0.93                | 10.1                   | -14.6                   |
| 15,368.0                | 92.04      | 179.74               | 12,492.1      | -2,617.4      | -298.4       | 1.68                | 1.51                 | -0.74               | 8.3                    | -15.4                   |
| 15,464.0                | 89.41      | 176.67               | 12,490.9      | -2,713.4      | -295.4       | 4.21                | -2.74                | -3.20               | 7.6                    | -13.1                   |
| 15,559.0                | 89.58      | 177.81               | 12,491.7      | -2,808.3      | -290.8       | 1.21                | 0.18                 | 1.20                | 8.9                    | -9.1                    |
| 15,655.0                | 91.30      | 176.75               | 12,491.0      | -2,904.1      | -286.2       | 2.10                | 1.79                 | -1.10               | 8.6                    | -5.2                    |
| 15,743.2                | 89.70      | 175.53               | 12,490.2      | -2,992.2      | -280.3       | 2.28                | -1.81                | -1.38               | 8.2                    | 0.2                     |
| TGT#2 (VAL 24 FC #722H) |            |                      |               |               |              |                     |                      |                     |                        |                         |
| 15,750.0                | 89.58      | 175.44               | 12,490.3      | -2,998.9      | -279.8       | 2.28                | -1.81                | -1.38               | 8.3                    | 0.7                     |
| 15,846.0                | 92.53      | 177.02               | 12,488.5      | -3,094.7      | -273.5       | 3.49                | 3.07                 | 1.65                | 6.1                    | 6.3                     |
| 15,941.0                | 93.36      | 176.93               | 12,483.6      | -3,189.4      | -268.5       | 0.88                | 0.87                 | -0.09               | 0.7                    | 10.7                    |
| 16,037.0                | 93.85      | 177.19               | 12,477.6      | -3,285.1      | -263.5       | 0.58                | 0.51                 | 0.27                | -5.8                   | 15.0                    |
| 16,133.0                | 91.52      | 175.87               | 12,473.1      | -3,380.8      | -257.7       | 2.79                | -2.43                | -1.37               | -10.9                  | 20.2                    |
| 16,228.0                | 92.70      | 178.07               | 12,469.6      | -3,475.6      | -252.7       | 2.63                | 1.24                 | 2.32                | -14.9                  | 24.6                    |
| 16,324.0                | 93.89      | 179.57               | 12,464.1      | -3,571.4      | -250.7       | 1.99                | 1.24                 | 1.56                | -20.9                  | 26.0                    |
| 16,419.0                | 93.49      | 178.78               | 12,457.9      | -3,666.2      | -249.4       | 0.93                | -0.42                | -0.83               | -27.5                  | 26.7                    |
| 16,515.0                | 92.57      | 178.42               | 12,452.9      | -3,762.0      | -247.0       | 1.03                | -0.96                | -0.37               | -33.1                  | 28.4                    |
| 16,610.0                | 90.77      | 179.92               | 12,450.1      | -3,857.0      | -245.7       | 2.47                | -1.89                | 1.58                | -36.4                  | 29.1                    |
| 16,706.0                | 90.55      | 181.94               | 12,449.0      | -3,953.0      | -247.2       | 2.12                | -0.23                | 2.10                | -38.1                  | 26.9                    |
| 16,801.0                | 87.38      | 181.68               | 12,450.7      | -4,047.9      | -250.2       | 3.35                | -3.34                | -0.27               | -36.9                  | 23.4                    |
| 16,897.0                | 86.15      | 180.80               | 12,456.1      | -4,143.7      | -252.3       | 1.57                | -1.28                | -0.92               | -32.0                  | 20.7                    |
| 16,992.0                | 87.03      | 182.20               | 12,461.8      | -4,238.5      | -254.8       | 1.74                | 0.93                 | 1.47                | -26.8                  | 17.6                    |
| 17,088.0                | 87.56      | 182.47               | 12,466.3      | -4,334.3      | -258.7       | 0.62                | 0.55                 | 0.28                | -22.8                  | 13.0                    |
| 17,184.0                | 89.27      | 184.75               | 12,469.0      | -4,430.1      | -264.7       | 2.97                | 1.78                 | 2.37                | -20.7                  | 6.3                     |
| 17,247.9                | 88.95      | 185.05               | 12,470.0      | -4,493.8      | -270.2       | 0.69                | -0.51                | 0.46                | -20.0                  | 0.5                     |
| TGT#3 (VAL 24 FC #722H) |            |                      |               |               |              |                     |                      |                     |                        |                         |
| 17,279.0                | 88.79      | 185.19               | 12,470.6      | -4,524.7      | -272.9       | 0.69                | -0.51                | 0.46                | -19.7                  | -2.5                    |
| 17,366.0                | 87.34      | 185.54               | 12,473.5      | -4,611.3      | -281.1       | 1.71                | -1.67                | 0.40                | -17.7                  | -11.2                   |



# EOG Resources Final PVA

Company: EOG Resources - Midland  
Project: Lea County, NM (NAD 83 NME)  
Site: Vallant 24 Fed Com  
Well: #722H  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference:  
TVD Reference: KB = 25 @ 3481.0usft  
MD Reference: KB = 25 @ 3481.0usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: EDM 5000.14

| MD<br>(usft)            | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | D/Leg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|-------------------------|------------|----------------------|---------------|---------------|---------------|----------------------|----------------------|---------------------|------------------------|-------------------------|
| 17,462.0                | 87.78      | 184.93               | 12,477.6      | -4,706.8      | -289.8        | 0.78                 | 0.46                 | -0.64               | -14.7                  | -20.5                   |
| 17,557.0                | 88.09      | 182.12               | 12,481.0      | -4,801.5      | -295.7        | 2.97                 | 0.33                 | -2.96               | -12.2                  | -27.0                   |
| 17,653.0                | 89.63      | 181.06               | 12,482.9      | -4,897.5      | -298.3        | 1.95                 | 1.60                 | -1.10               | -11.3                  | -30.4                   |
| 17,749.0                | 90.15      | 179.39               | 12,483.1      | -4,993.5      | -298.7        | 1.82                 | 0.54                 | -1.74               | -12.1                  | -31.4                   |
| 17,845.0                | 88.48      | 176.49               | 12,484.3      | -5,089.4      | -295.3        | 3.49                 | -1.74                | -3.02               | -12.0                  | -28.6                   |
| 17,940.0                | 89.14      | 176.67               | 12,486.2      | -5,184.2      | -289.6        | 0.72                 | 0.69                 | 0.19                | -11.0                  | -23.5                   |
| 17,995.0                | 89.14      | 176.67               | 12,487.1      | -5,239.1      | -286.4        | 0.00                 | 0.00                 | 0.00                | -10.8                  | -20.7                   |
| 18,036.0                | 90.11      | 177.72               | 12,487.3      | -5,280.0      | -284.4        | 3.49                 | 2.37                 | 2.56                | -11.0                  | -18.9                   |
| 18,132.0                | 90.46      | 177.98               | 12,486.9      | -5,376.0      | -280.8        | 0.45                 | 0.36                 | 0.27                | -12.5                  | -16.0                   |
| 18,227.0                | 89.63      | 177.63               | 12,486.8      | -5,470.9      | -277.2        | 0.95                 | -0.87                | -0.37               | -13.5                  | -12.9                   |
| 18,323.0                | 91.56      | 178.95               | 12,485.8      | -5,566.9      | -274.3        | 2.44                 | 2.01                 | 1.37                | -15.6                  | -10.7                   |
| 18,419.0                | 90.11      | 179.30               | 12,484.4      | -5,662.8      | -272.8        | 1.55                 | -1.51                | 0.36                | -18.0                  | -9.9                    |
| 18,514.0                | 87.91      | 179.13               | 12,486.0      | -5,757.8      | -271.5        | 2.32                 | -2.32                | -0.18               | -17.3                  | -9.2                    |
| 18,610.0                | 87.96      | 178.51               | 12,489.5      | -5,853.7      | -269.5        | 0.65                 | 0.05                 | -0.65               | -14.9                  | -7.9                    |
| 18,705.0                | 88.53      | 179.04               | 12,492.4      | -5,948.7      | -267.5        | 0.82                 | 0.60                 | 0.56                | -13.0                  | -6.4                    |
| 18,801.0                | 88.53      | 178.69               | 12,494.9      | -6,044.6      | -265.6        | 0.36                 | 0.00                 | -0.36               | -11.6                  | -5.2                    |
| 18,897.0                | 88.97      | 179.30               | 12,496.9      | -6,140.6      | -263.9        | 0.78                 | 0.46                 | 0.64                | -10.5                  | -4.1                    |
| 18,951.2                | 89.72      | 179.91               | 12,497.6      | -6,194.8      | -263.6        | 1.78                 | 1.39                 | 1.12                | -10.4                  | -4.1                    |
| TGT#4 (VAL 24 FC #722H) |            |                      |               |               |               |                      |                      |                     |                        |                         |
| 18,992.0                | 90.29      | 180.36               | 12,497.6      | -6,235.6      | -263.6        | 1.78                 | 1.39                 | 1.12                | -10.9                  | -4.5                    |
| 19,088.0                | 90.33      | 179.74               | 12,497.0      | -6,331.6      | -263.7        | 0.65                 | 0.04                 | -0.65               | -12.4                  | -5.2                    |
| 19,184.0                | 87.69      | 179.57               | 12,498.7      | -6,427.5      | -263.2        | 2.76                 | -2.75                | -0.18               | -11.8                  | -5.2                    |
| 19,280.0                | 88.04      | 179.04               | 12,502.3      | -6,523.5      | -262.0        | 0.66                 | 0.36                 | -0.55               | -9.2                   | -4.7                    |
| 19,375.0                | 88.66      | 180.45               | 12,505.0      | -6,618.4      | -261.6        | 1.62                 | 0.65                 | 1.48                | -7.5                   | -4.9                    |
| 19,471.0                | 88.92      | 180.27               | 12,507.0      | -6,714.4      | -262.2        | 0.33                 | 0.27                 | -0.19               | -6.5                   | -6.1                    |
| 19,567.0                | 90.02      | 180.27               | 12,507.9      | -6,810.4      | -262.6        | 1.15                 | 1.15                 | 0.00                | -6.6                   | -7.2                    |
| 19,662.0                | 88.53      | 179.57               | 12,509.1      | -6,905.4      | -262.5        | 1.73                 | -1.57                | -0.74               | -6.4                   | -7.7                    |



EOG Resources  
Final PVA

|                                      |  |                              |  |                      |  |
|--------------------------------------|--|------------------------------|--|----------------------|--|
| Company: EOG Resources - Midland     |  | Local Co-ordinate Reference: |  | Well #722H           |  |
| Project: Lea County, NM (NAD 83 NME) |  | TVD Reference:               |  | KB = 25 @ 3481.0usft |  |
| Site: Valiant 24 Fed Com             |  | MD Reference:                |  | KB = 25 @ 3481.0usft |  |
| Well: #722H                          |  | North Reference:             |  | Grid                 |  |
| Wellbore: OH                         |  | Survey Calculation Method:   |  | Minimum Curvature    |  |
| Design: OH                           |  | Database:                    |  | EDM 5000.14          |  |

| MD (usft)                                                      | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | D/Leg (°/100usft) | Build (°/100usft) | Turn (°/100usft) | High to Plan (usft) | Right to Plan (usft) |
|----------------------------------------------------------------|---------|-------------------|------------|------------|------------|-------------------|-------------------|------------------|---------------------|----------------------|
| 19,758.0                                                       | 89.01   | 179.04            | 12,511.2   | -7,001.3   | -261.3     | 0.74              | 0.50              | -0.55            | -5.4                | -7.2                 |
| 19,853.0                                                       | 89.89   | 179.13            | 12,512.1   | -7,096.3   | -259.8     | 0.93              | 0.93              | 0.09             | -5.5                | -6.3                 |
| 19,949.0                                                       | 89.85   | 179.04            | 12,512.3   | -7,192.3   | -258.3     | 0.10              | -0.04             | -0.09            | -6.3                | -5.4                 |
| 20,022.0                                                       | 90.37   | 178.42            | 12,512.2   | -7,265.3   | -256.7     | 1.11              | 0.71              | -0.85            | -7.2                | -4.3                 |
| Final MWD Survey (MD=20022.0')                                 |         |                   |            |            |            |                   |                   |                  |                     |                      |
| 20,077.0                                                       | 90.37   | 178.42            | 12,511.8   | -7,320.3   | -255.1     | 0.00              | 0.00              | 0.00             | -8.2                | -3.1                 |
| Final Projection to Bit (MD=20077.0') - PBHL (VAL 24 FC #722H) |         |                   |            |            |            |                   |                   |                  |                     |                      |

| Design Annotations          |                             |                   |                 |                                                                            |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                                                    |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                                            |
| 12,225.1                    | 12,177.6                    | 388.4             | -380.0          | HL Crossing, MD:12225.1', TVD:12177.6', N/S:388.4', E/W:-380.0', INC:28.10 |
| 20,022.0                    | 12,512.2                    | -7,265.3          | -256.7          | Final MWD Survey (MD=20022.0')                                             |
| 20,077.0                    | 12,511.8                    | -7,320.3          | -255.1          | Final Projection to Bit (MD=20077.0')                                      |

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



Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com #722H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

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

WELL DETAILS: #722H

KB = 25 @ 3481.0usft  
Northing 405170.00 Easting 759151.00  
3456.0  
Latitude 32° 6' 52.858 N Longitude 103° 37' 46.977 W

### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | Dleg  | TFace   | VSect  |
|-----|---------|-------|--------|---------|---------|--------|-------|---------|--------|
| 1   | 879.0   | 0.84  | 183.82 | 878.9   | -11.2   | -1.0   | 0.00  | 0.00    | 11.2   |
| 2   | 1020.0  | 0.84  | 183.82 | 1019.9  | -13.3   | -1.2   | 0.00  | 0.00    | 13.3   |
| 3   | 1062.0  | 0.00  | 0.00   | 1061.9  | -13.6   | -1.2   | 2.00  | 180.00  | 13.6   |
| 4   | 3000.1  | 0.00  | 0.00   | 3000.0  | -13.6   | -1.2   | 0.00  | 0.00    | 13.6   |
| 5   | 3387.4  | 7.75  | 326.30 | 3386.1  | 8.2     | -15.7  | 2.00  | 326.30  | -7.6   |
| 6   | 7035.4  | 7.75  | 326.30 | 7030.9  | 417.2   | -288.5 | 0.00  | 0.00    | -407.1 |
| 7   | 7422.7  | 0.00  | 0.00   | 7387.0  | 439.0   | -303.0 | 2.00  | 180.00  | -428.3 |
| 8   | 12051.2 | 0.00  | 0.00   | 12015.5 | 439.0   | -303.0 | 0.00  | 0.00    | -428.3 |
| 9   | 12802.6 | 90.16 | 179.62 | 12493.0 | -39.8   | -299.9 | 12.00 | 179.62  | 50.1   |
| 10  | 14253.7 | 90.16 | 179.62 | 12489.0 | -1490.9 | -290.3 | 0.00  | 0.00    | 1500.0 |
| 11  | 14259.3 | 90.27 | 179.62 | 12489.0 | -1496.4 | -290.3 | 2.00  | 0.00    | 1505.5 |
| 12  | 15755.0 | 90.27 | 179.62 | 12482.0 | -2992.1 | -280.5 | 0.00  | 0.00    | 3000.0 |
| 13  | 15783.9 | 89.69 | 179.62 | 12480.0 | -3021.0 | -280.3 | 2.00  | -180.00 | 3028.9 |
| 14  | 17256.3 | 89.69 | 179.62 | 12490.0 | -4493.4 | -270.6 | 0.00  | 0.00    | 4500.1 |
| 15  | 17271.2 | 89.39 | 179.62 | 12490.1 | -4508.2 | -270.5 | 2.00  | -180.00 | 4514.9 |
| 16  | 18957.8 | 89.39 | 179.62 | 12508.0 | -6194.7 | -259.5 | 0.00  | 0.00    | 6200.0 |
| 17  | 20084.2 | 89.39 | 179.62 | 12520.0 | -7321.0 | -252.0 | 0.00  | -131.55 | 7325.3 |

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

| Name                   | TVD     | +N/-S   | +E/-W  | Northing  | Easting   |
|------------------------|---------|---------|--------|-----------|-----------|
| KOP(VAL 24 FC #722H)   | 12015.5 | 439.0   | -303.0 | 405609.00 | 758878.00 |
| TOTR1(VAL 24 FC #722H) | 12402.0 | -299.2  | -290.5 | 403177.90 | 758900.52 |
| TOTR2(VAL 24 FC #722H) | 12489.0 | -1490.9 | -290.3 | 404679.10 | 758900.67 |
| TOTR3(VAL 24 FC #722H) | 12490.0 | -4493.4 | -270.6 | 401678.60 | 758910.27 |
| FTP(VAL 24 FC #722H)   | 12493.0 | 399.0   | -303.0 | 405609.00 | 758878.00 |
| TOTR4(VAL 24 FC #722H) | 12508.0 | -6194.7 | -259.5 | 399976.30 | 758921.54 |
| PEHL(VAL 24 FC #722H)  | 12520.0 | -7321.0 | -252.0 | 398849.00 | 758929.00 |

