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## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Python 36 State Com

#702H

OH

Design: OH

## **PVA Report**

13 March, 2018

# PVA Report

|                                     |                             |              |                     |                              |                               |                             |
|-------------------------------------|-----------------------------|--------------|---------------------|------------------------------|-------------------------------|-----------------------------|
| Company:                            | EOG Resources - Midland     |              |                     | Local Co-ordinate Reference: | Well #702H                    |                             |
| Project:                            | Lea County, NM (NAD 83 NME) |              |                     | TVD Reference:               | KB = 25 @ 3582.0usft (HP 379) |                             |
| Site:                               | Python 36 State Com         |              |                     | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |                             |
| Well:                               | #702H                       |              |                     | 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 Python 36 State Com            |                             |              |                     |                              |                               |                             |
| Site Position:                      |                             |              |                     | Northing:                    | 425,448.00 usft               | Latitude: 32° 10' 3.739 N   |
| From:                               | Map                         |              |                     | Easting:                     | 757,528.00 usft               | Longitude: 103° 38' 4.742 W |
| Position Uncertainty:               | 0.0 usft                    |              |                     | Slot Radius:                 | 13-3/16 "                     | Grid Convergence: 0.37 °    |
| Well #702H                          |                             |              |                     |                              |                               |                             |
| Well Position                       | +N/-S                       | 0.0 usft     | Northing:           | 425,448.00 usft              | Latitude:                     | 32° 10' 3.737 N             |
|                                     | +E/-W                       | 0.0 usft     | Easting:            | 757,561.00 usft              | Longitude:                    | 103° 38' 4.358 W            |
| Position Uncertainty                | 0.0 usft                    |              | Wellhead Elevation: | usft                         | Ground Level:                 | 3,557.0 usft                |
| Wellbore OH                         |                             |              |                     |                              |                               |                             |
| Magnetics                           | Model Name                  | Sample Date  | Declination (°)     | Dip Angle (°)                | Field Strength (nT)           |                             |
|                                     | IGRF2015                    | 1/4/2018     | 6.92                | 59.99                        | 47,840.47080000               |                             |
| Design OH                           |                             |              |                     |                              |                               |                             |
| Audit Notes:                        |                             |              |                     |                              |                               |                             |
| Version:                            | 1.0                         | Phase:       | ACTUAL              | Tie On Depth:                |                               |                             |
| Vertical Section:                   | Depth From (TVD) (usft)     | +N/-S (usft) | +E/-W (usft)        | Direction (°)                |                               |                             |
|                                     | 0.0                         | 0.0          | 0.0                 | 357.83                       |                               |                             |



# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #702H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3582.0usft (HP 379) |
| Site:     | Python 36 State Com         | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |
| Well:     | #702H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey Program |           | Date              | 3/13/2018 |                     |  |
|----------------|-----------|-------------------|-----------|---------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore) | Tool Name | Description         |  |
| 202.0          | 1,121.0   | Olebrook MWD (OH) | MWD       | OWSG MWD - Standard |  |
| 1,170.0        | 17,752.0  | Total MWD (OH)    | MWD       | OWSG MWD - Standard |  |

| MD (usft) | Inc (") | Azi (grid_north_azim) | TVD (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) | High to Plan (usft) | Right to Plan (usft) |
|-----------|---------|-----------------------|------------|------------|------------|------------------|-------------------|------------------|---------------------|----------------------|
| 0.0       | 0.00    | 0.00                  | 0.0        | 0.0        | 0.0        | 0.00             | 0.00              | 0.00             | 0.0                 | 0.0                  |
| 202.0     | 0.97    | 67.31                 | 202.0      | 0.7        | 1.6        | 0.48             | 0.48              | 0.00             | -1.7                | 0.0                  |
| 294.0     | 0.62    | 332.30                | 294.0      | 1.4        | 2.1        | 1.30             | -0.38             | -103.27          | -0.3                | -2.5                 |
| 387.0     | 0.35    | 43.93                 | 387.0      | 2.1        | 2.0        | 0.65             | -0.29             | 77.02            | -2.9                | 0.0                  |
| 482.0     | 0.97    | 58.34                 | 482.0      | 2.7        | 2.9        | 0.67             | 0.65              | 15.17            | -3.9                | 0.8                  |
| 577.0     | 0.97    | 40.06                 | 577.0      | 3.7        | 4.1        | 0.32             | 0.00              | -19.24           | -5.5                | -0.8                 |
| 672.0     | 0.79    | 40.59                 | 672.0      | 4.8        | 5.1        | 0.19             | -0.19             | 0.56             | -7.0                | -0.7                 |
| 768.0     | 0.62    | 53.16                 | 767.9      | 5.6        | 5.9        | 0.24             | -0.18             | 13.09            | -8.1                | 1.0                  |
| 862.0     | 0.44    | 82.42                 | 861.9      | 6.0        | 6.7        | 0.34             | -0.19             | 31.13            | -7.4                | 5.1                  |
| 957.0     | 0.35    | 84.01                 | 956.9      | 6.1        | 7.3        | 0.10             | -0.09             | 1.67             | -7.9                | 5.3                  |
| 1,052.0   | 0.35    | 306.28                | 1,051.9    | 6.3        | 7.4        | 0.69             | 0.00              | -144.98          | 2.2                 | -9.4                 |
| 1,121.0   | 0.44    | 269.81                | 1,120.9    | 6.4        | 6.9        | 0.38             | 0.13              | -52.86           | 7.0                 | -6.4                 |
| 1,170.0   | 1.30    | 239.60                | 1,169.9    | 6.1        | 6.3        | 1.93             | 1.76              | -61.65           | 8.5                 | -2.1                 |
| 1,265.0   | 4.00    | 246.30                | 1,264.8    | 4.2        | 2.3        | 2.86             | 2.84              | 7.05             | 3.8                 | -3.0                 |
| 1,359.0   | 5.20    | 242.40                | 1,358.5    | 1.0        | -4.5       | 1.32             | 1.28              | -4.15            | -3.5                | -2.9                 |
| 1,452.0   | 5.10    | 242.20                | 1,451.1    | -2.9       | -11.9      | 0.11             | -0.11             | -0.22            | -11.9               | -3.0                 |
| 1,638.0   | 5.40    | 244.20                | 1,636.4    | -10.6      | -27.1      | 0.19             | 0.16              | 1.08             | -29.0               | -2.2                 |
| 1,826.0   | 5.60    | 246.00                | 1,823.5    | -18.2      | -43.4      | 0.14             | 0.11              | 0.96             | -47.0               | -1.1                 |
| 2,014.0   | 8.00    | 240.90                | 2,010.2    | -28.3      | -63.2      | 1.32             | 1.28              | -2.71            | -69.0               | -6.1                 |
| 2,108.0   | 6.20    | 220.80                | 2,103.4    | -35.3      | -72.2      | 3.24             | -1.91             | -21.38           | -73.9               | -31.8                |
| 2,202.0   | 5.80    | 188.10                | 2,197.0    | -43.8      | -76.2      | 3.61             | -0.43             | -34.79           | -54.0               | -69.4                |

# PVA Report

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| Site:     | Python 36 State Com         | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |
| Well:     | #702H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey       |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(") | Azi<br>(grid_north_azim) | 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) |  |
| 2,391.0      | 6.40       | 172.90                   | 2,384.9       | -63.8         | -76.3         | 0.91                | 0.32                 | -8.04               | -53.6                  | -83.7                   |  |
| 2,484.0      | 6.40       | 172.90                   | 2,477.3       | -74.0         | -75.0         | 0.00                | 0.00                 | 0.00                | -63.9                  | -83.8                   |  |
| 2,579.0      | 6.40       | 171.10                   | 2,571.7       | -84.5         | -73.5         | 0.21                | 0.00                 | -1.89               | -71.9                  | -85.9                   |  |
| 2,673.0      | 6.30       | 172.80                   | 2,665.2       | -94.8         | -72.1         | 0.23                | -0.11                | 1.81                | -84.8                  | -83.6                   |  |
| 2,767.0      | 6.30       | 172.10                   | 2,758.6       | -105.0        | -70.7         | 0.08                | 0.00                 | -0.74               | -94.1                  | -84.8                   |  |
| 2,955.0      | 6.30       | 173.30                   | 2,945.5       | -125.5        | -68.1         | 0.07                | 0.00                 | 0.64                | -116.5                 | -82.6                   |  |
| 3,144.0      | 7.30       | 190.70                   | 3,133.1       | -147.6        | -69.1         | 1.21                | 0.53                 | 9.21                | -157.8                 | -40.8                   |  |
| 3,332.0      | 7.60       | 188.50                   | 3,319.6       | -171.6        | -73.2         | 0.22                | 0.16                 | -1.17               | -180.5                 | -47.4                   |  |
| 3,425.0      | 6.10       | 199.10                   | 3,411.9       | -182.4        | -75.7         | 2.10                | -1.61                | 11.40               | -197.1                 | -11.9                   |  |
| 3,519.0      | 5.20       | 203.80                   | 3,505.4       | -191.0        | -79.0         | 1.08                | -0.96                | 5.00                | -206.7                 | 4.8                     |  |
| 3,613.0      | 5.40       | 230.00                   | 3,599.0       | -197.7        | -84.2         | 2.56                | 0.21                 | 27.87               | -191.4                 | 97.7                    |  |
| 3,707.0      | 5.20       | 232.90                   | 3,692.6       | -203.2        | -90.9         | 0.36                | -0.21                | 3.09                | -194.9                 | 107.5                   |  |
| 3,801.0      | 4.30       | 229.10                   | 3,786.3       | -208.0        | -97.0         | 1.01                | -0.96                | -4.04               | -209.4                 | 94.0                    |  |
| 3,895.0      | 4.10       | 226.50                   | 3,880.1       | -212.7        | -102.1        | 0.29                | -0.21                | -2.77               | -220.4                 | 84.2                    |  |
| 3,989.0      | 3.80       | 222.90                   | 3,973.8       | -217.3        | -106.7        | 0.41                | -0.32                | -3.83               | -231.7                 | 69.9                    |  |
| 4,084.0      | 3.70       | 220.30                   | 4,068.6       | -221.9        | -110.8        | 0.21                | -0.11                | -2.74               | -240.9                 | 59.1                    |  |
| 4,271.0      | 3.60       | 198.90                   | 4,255.3       | -232.1        | -116.6        | 0.73                | -0.05                | -11.44              | -257.3                 | -35.2                   |  |
| 4,366.0      | 3.60       | 187.10                   | 4,350.1       | -237.8        | -117.9        | 0.78                | 0.00                 | -12.42              | -250.5                 | -87.8                   |  |
| 4,460.0      | 3.40       | 182.80                   | 4,443.9       | -243.5        | -118.4        | 0.35                | -0.21                | -4.57               | -249.0                 | -106.5                  |  |
| 4,554.0      | 4.20       | 171.50                   | 4,537.7       | -249.7        | -118.0        | 1.16                | 0.85                 | -12.02              | -229.4                 | -154.0                  |  |
| 4,648.0      | 5.00       | 164.30                   | 4,631.4       | -257.1        | -116.4        | 1.05                | 0.85                 | -7.66               | -215.6                 | -182.1                  |  |
| 4,743.0      | 5.40       | 150.40                   | 4,726.0       | -265.0        | -113.1        | 1.39                | 0.42                 | -14.63              | -174.0                 | -229.6                  |  |
| 4,911.0      | 3.40       | 177.10                   | 4,893.5       | -276.8        | -108.9        | 1.67                | -1.19                | 15.89               | -270.9                 | -123.0                  |  |
| 5,005.0      | 0.80       | 290.60                   | 4,987.5       | -279.4        | -109.4        | 4.03                | -2.77                | 120.74              | -4.1                   | 300.0                   |  |
| 5,099.0      | 1.60       | 307.60                   | 5,081.4       | -278.3        | -111.1        | 0.92                | 0.85                 | 18.09               | 81.4                   | 287.1                   |  |
| 5,193.0      | 1.90       | 308.70                   | 5,175.4       | -276.6        | -113.3        | 0.32                | 0.32                 | 1.17                | 83.1                   | 280.9                   |  |
| 5,287.0      | 1.70       | 299.90                   | 5,269.4       | -274.9        | -115.8        | 0.36                | -0.21                | -9.36               | 36.3                   | 282.0                   |  |

PVA Report

|              |                             |                          |               |               |               |                              |                      |                     |                               |                         |  |
|--------------|-----------------------------|--------------------------|---------------|---------------|---------------|------------------------------|----------------------|---------------------|-------------------------------|-------------------------|--|
| Company:     | EOG Resources - Midland     |                          |               |               |               | Local Co-ordinate Reference: |                      |                     | Well #702H                    |                         |  |
| Project:     | Lea County, NM (NAD 83 NME) |                          |               |               |               | TVD Reference:               |                      |                     | KB = 25 @ 3582.0usft (HP 379) |                         |  |
| Site:        | Python 36 State Com         |                          |               |               |               | MD Reference:                |                      |                     | KB = 25 @ 3582.0usft (HP 379) |                         |  |
| Well:        | #702H                       |                          |               |               |               | North Reference:             |                      |                     | Grid                          |                         |  |
| Wellbore:    | OH                          |                          |               |               |               | Survey Calculation Method:   |                      |                     | Minimum Curvature             |                         |  |
| Design:      | OH                          |                          |               |               |               | Database:                    |                      |                     | EDM 5000.14                   |                         |  |
| Survey       |                             |                          |               |               |               |                              |                      |                     |                               |                         |  |
| MD<br>(usft) | Inc<br>(°)                  | Azi<br>(grid_north_azim) | 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) |  |
| 5,381.0      | 1.80                        | 299.10                   | 5,363.3       | -273.5        | -118.3        | 0.11                         | 0.11                 | -0.85               | 29.7                          | 271.0                   |  |
| 5,476.0      | 1.80                        | 297.70                   | 5,458.3       | -272.1        | -120.9        | 0.05                         | 0.00                 | -1.47               | 20.9                          | 257.8                   |  |
| 5,570.0      | 1.50                        | 295.10                   | 5,552.2       | -270.8        | -123.3        | 0.33                         | -0.32                | -2.77               | 8.1                           | 244.8                   |  |
| 5,665.0      | 1.80                        | 287.00                   | 5,647.2       | -269.9        | -125.9        | 0.40                         | 0.32                 | -8.53               | -26.0                         | 229.8                   |  |
| 5,758.0      | 2.00                        | 288.80                   | 5,740.1       | -268.9        | -128.8        | 0.22                         | 0.22                 | 1.94                | -19.0                         | 217.2                   |  |
| 5,853.0      | 1.60                        | 288.00                   | 5,835.1       | -268.0        | -131.6        | 0.42                         | -0.42                | -0.84               | -21.7                         | 203.4                   |  |
| 5,947.0      | 1.90                        | 283.00                   | 5,929.0       | -267.2        | -134.4        | 0.36                         | 0.32                 | -5.32               | -38.1                         | 187.6                   |  |
| 6,041.0      | 1.90                        | 291.10                   | 6,023.0       | -266.3        | -137.4        | 0.29                         | 0.00                 | 8.62                | -12.0                         | 177.7                   |  |
| 6,136.0      | 2.20                        | 295.80                   | 6,117.9       | -265.0        | -140.5        | 0.36                         | 0.32                 | 4.95                | 0.3                           | 164.4                   |  |
| 6,230.0      | 2.30                        | 295.30                   | 6,211.9       | -263.4        | -143.8        | 0.11                         | 0.11                 | -0.53               | -3.4                          | 150.7                   |  |
| 6,324.0      | 1.80                        | 291.60                   | 6,305.8       | -262.0        | -146.9        | 0.55                         | -0.53                | -3.94               | -14.0                         | 136.5                   |  |
| 6,418.0      | 1.80                        | 289.00                   | 6,399.8       | -261.0        | -149.6        | 0.09                         | 0.00                 | -2.77               | -20.3                         | 122.3                   |  |
| 6,512.0      | 2.10                        | 294.80                   | 6,493.7       | -259.8        | -152.6        | 0.38                         | 0.32                 | 6.17                | -9.6                          | 110.2                   |  |
| 6,606.0      | 2.00                        | 296.80                   | 6,587.6       | -258.3        | -155.6        | 0.13                         | -0.11                | 2.13                | -8.1                          | 96.8                    |  |
| 6,700.0      | 1.70                        | 280.80                   | 6,681.6       | -257.3        | -158.5        | 0.63                         | -0.32                | -17.02              | -32.5                         | 77.5                    |  |
| 6,794.0      | 1.40                        | 274.50                   | 6,775.6       | -257.0        | -161.0        | 0.37                         | -0.32                | -6.70               | -37.2                         | 61.0                    |  |
| 6,888.0      | 1.20                        | 265.70                   | 6,869.5       | -257.0        | -163.1        | 0.30                         | -0.21                | -9.36               | -40.2                         | 43.3                    |  |
| 6,983.0      | 1.50                        | 279.50                   | 6,964.5       | -256.8        | -165.3        | 0.46                         | 0.32                 | 14.53               | -25.8                         | 38.9                    |  |
| 7,171.0      | 1.60                        | 277.40                   | 7,152.4       | -256.1        | -170.4        | 0.06                         | 0.05                 | -1.12               | -22.1                         | 14.8                    |  |
| 7,265.0      | 1.60                        | 275.40                   | 7,246.4       | -255.8        | -173.0        | 0.06                         | 0.00                 | -2.13               | -21.5                         | 6.4                     |  |
| 7,360.0      | 1.70                        | 264.10                   | 7,341.4       | -255.8        | -175.7        | 0.36                         | 0.11                 | -11.89              | -21.8                         | -2.6                    |  |
| 7,454.0      | 1.90                        | 181.00                   | 7,435.3       | -257.5        | -177.1        | 2.54                         | 0.21                 | -88.40              | 0.2                           | -22.2                   |  |
| 7,548.0      | 1.90                        | 171.30                   | 7,529.3       | -260.6        | -176.9        | 0.34                         | 0.00                 | -10.32              | 1.0                           | -22.0                   |  |
| 7,642.0      | 1.80                        | 168.60                   | 7,623.2       | -263.6        | -176.4        | 0.14                         | -0.11                | -2.87               | -1.0                          | -22.0                   |  |
| 7,736.0      | 1.80                        | 167.50                   | 7,717.2       | -266.5        | -175.7        | 0.04                         | 0.00                 | -1.17               | -3.6                          | -22.0                   |  |
| 7,830.0      | 1.10                        | 276.90                   | 7,811.2       | -267.8        | -176.3        | 2.55                         | -0.74                | 116.38              | -20.0                         | 12.1                    |  |
| 7,924.0      | 1.30                        | 294.00                   | 7,905.1       | -267.3        | -178.2        | 0.43                         | 0.21                 | 18.19               | -17.5                         | 17.7                    |  |



# PVA Report

|                  |                             |                                     |                               |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #702H                    |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25 @ 3582.0usft (HP 379) |
| <b>Site:</b>     | Python 36 State Com         | <b>MD Reference:</b>                | KB = 25 @ 3582.0usft (HP 379) |
| <b>Well:</b>     | #702H                       | <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                   |

| Survey       |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi<br>(grid_north_azim) | 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) |  |
| 8,019.0      | 1.50       | 280.90                   | 8,000.1       | -266.6        | -180.4        | 0.40                | 0.21                 | -13.79              | -23.4                  | 13.0                    |  |
| 8,113.0      | 1.30       | 287.60                   | 8,094.1       | -266.1        | -182.6        | 0.27                | -0.21                | 7.13                | -24.0                  | 15.8                    |  |
| 8,207.0      | 1.40       | 307.20                   | 8,188.1       | -265.0        | -184.6        | 0.50                | 0.11                 | 20.85               | -19.4                  | 23.3                    |  |
| 8,301.0      | 2.50       | 326.80                   | 8,282.0       | -262.6        | -186.6        | 1.35                | 1.17                 | 20.85               | -13.6                  | 28.8                    |  |
| 8,395.0      | 0.80       | 358.00                   | 8,376.0       | -260.3        | -187.7        | 1.98                | -1.81                | 33.19               | 0.9                    | 32.8                    |  |
| 8,490.0      | 0.50       | 101.20                   | 8,471.0       | -259.7        | -187.4        | 1.09                | -0.32                | 108.63              | 31.5                   | -7.7                    |  |
| 8,584.0      | 0.20       | 201.80                   | 8,565.0       | -259.9        | -187.0        | 0.61                | -0.32                | 107.02              | -13.4                  | -29.1                   |  |
| 8,678.0      | 0.20       | 251.70                   | 8,659.0       | -260.1        | -187.2        | 0.18                | 0.00                 | 53.09               | -31.2                  | -8.3                    |  |
| 8,773.0      | 0.30       | 262.10                   | 8,754.0       | -260.2        | -187.6        | 0.12                | 0.11                 | 10.95               | -32.6                  | -2.6                    |  |
| 8,868.0      | 0.50       | 253.90                   | 8,849.0       | -260.3        | -188.3        | 0.22                | 0.21                 | -8.63               | -32.6                  | -7.2                    |  |
| 9,056.0      | 1.40       | 272.30                   | 9,036.9       | -260.5        | -191.4        | 0.50                | 0.48                 | 9.79                | -36.2                  | 3.7                     |  |
| 9,150.0      | 1.50       | 14.10                    | 9,130.9       | -259.2        | -192.2        | 2.40                | 0.11                 | 108.30              | 10.0                   | 35.8                    |  |
| 9,244.0      | 1.50       | 355.80                   | 9,224.9       | -256.8        | -192.0        | 0.51                | 0.00                 | -19.47              | -4.1                   | 36.8                    |  |
| 9,338.0      | 1.60       | 321.70                   | 9,318.8       | -254.6        | -192.9        | 0.97                | 0.11                 | -36.28              | -26.4                  | 27.5                    |  |
| 9,432.0      | 0.70       | 58.30                    | 9,412.8       | -253.2        | -193.2        | 1.93                | -0.96                | 102.77              | 29.9                   | 24.4                    |  |
| 9,526.0      | 0.70       | 50.80                    | 9,506.8       | -252.6        | -192.3        | 0.10                | -0.00                | -7.98               | 25.3                   | 28.0                    |  |
| 9,620.0      | 0.70       | 54.90                    | 9,600.8       | -251.9        | -191.4        | 0.05                | 0.00                 | 4.36                | 26.1                   | 26.1                    |  |
| 9,715.0      | 1.00       | 68.70                    | 9,695.8       | -251.2        | -190.1        | 0.38                | 0.32                 | 14.53               | 30.2                   | 19.3                    |  |
| 9,809.0      | 0.00       | 244.10                   | 9,789.8       | -250.9        | -189.4        | 1.06                | -1.06                | 0.00                | -7.3                   | 34.4                    |  |
| 9,902.0      | 1.50       | 209.50                   | 9,882.8       | -252.0        | -190.0        | 1.61                | 1.61                 | 0.00                | -11.8                  | -33.5                   |  |
| 9,996.0      | 2.20       | 195.60                   | 9,976.7       | -254.8        | -191.1        | 0.88                | 0.74                 | -14.79              | -6.4                   | -35.7                   |  |
| 10,091.0     | 2.20       | 172.00                   | 10,071.7      | -258.4        | -191.3        | 0.95                | 0.00                 | -24.84              | 4.9                    | -36.0                   |  |
| 10,186.0     | 2.10       | 176.70                   | 10,166.6      | -261.9        | -190.9        | 0.21                | -0.11                | 4.95                | -1.6                   | -36.1                   |  |
| 10,278.0     | 2.10       | 121.20                   | 10,258.6      | -264.5        | -189.4        | 2.13                | 0.00                 | -60.33              | 26.2                   | -23.2                   |  |
| 10,372.0     | 2.00       | 119.50                   | 10,352.5      | -266.2        | -186.5        | 0.12                | -0.11                | -1.81               | 23.5                   | -22.4                   |  |
| 10,465.0     | 2.10       | 122.00                   | 10,445.4      | -267.9        | -183.6        | 0.14                | 0.11                 | 2.69                | 19.2                   | -23.4                   |  |
| 10,559.0     | 1.90       | 136.30                   | 10,539.4      | -269.9        | -181.1        | 0.57                | -0.21                | 15.21               | 9.6                    | -26.9                   |  |

# PVA Report

|                                      |            |                          |                              |               |               |                                              |                      |                     |                        |                         |  |
|--------------------------------------|------------|--------------------------|------------------------------|---------------|---------------|----------------------------------------------|----------------------|---------------------|------------------------|-------------------------|--|
| Company: EOG Resources - Midland     |            |                          | Local Co-ordinate Reference: |               |               | Well #702H                                   |                      |                     |                        |                         |  |
| Project: Lea County, NM (NAD 83 NME) |            |                          |                              |               |               | KB = 25 @ 3582.0usft (HP 379)                |                      |                     |                        |                         |  |
| Site: Python 36 State Com            |            |                          |                              |               |               | MD Reference: KB = 25 @ 3582.0usft (HP 379)  |                      |                     |                        |                         |  |
| Well: #702H                          |            |                          |                              |               |               | North Reference: Grid                        |                      |                     |                        |                         |  |
| Wellbore: OH                         |            |                          |                              |               |               | Survey Calculation Method: Minimum Curvature |                      |                     |                        |                         |  |
| Design: OH                           |            |                          | Database:                    |               |               | EDM 5000.14                                  |                      |                     |                        |                         |  |
| Survey                               |            |                          |                              |               |               |                                              |                      |                     |                        |                         |  |
| MD<br>(usft)                         | Inc<br>(°) | Azi<br>(grid_north_azim) | 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) |  |
| 10,653.0                             | 2.20       | 137.90                   | 10,633.3                     | -272.4        | -178.8        | 0.32                                         | 0.32                 | 1.70                | 5.5                    | -27.2                   |  |
| 10,747.0                             | 2.20       | 138.70                   | 10,727.3                     | -275.1        | -176.4        | 0.03                                         | 0.00                 | 0.85                | 1.5                    | -27.2                   |  |
| 10,842.0                             | 2.30       | 145.20                   | 10,822.2                     | -278.0        | -174.1        | 0.29                                         | 0.11                 | 6.84                | -5.3                   | -27.0                   |  |
| 10,937.0                             | 1.90       | 115.80                   | 10,917.1                     | -280.3        | -171.6        | 1.19                                         | -0.42                | -30.95              | 5.4                    | -27.1                   |  |
| 11,031.0                             | 2.30       | 102.40                   | 11,011.1                     | -281.3        | -168.4        | 0.67                                         | 0.43                 | -14.26              | 8.1                    | -25.4                   |  |
| 11,125.0                             | 1.70       | 114.90                   | 11,105.0                     | -282.3        | -165.3        | 0.79                                         | -0.64                | 13.30               | -0.8                   | -26.2                   |  |
| 11,219.0                             | 1.20       | 110.40                   | 11,199.0                     | -283.3        | -163.1        | 0.55                                         | -0.53                | -4.79               | -1.1                   | -26.3                   |  |
| 11,313.0                             | 0.80       | 164.90                   | 11,293.0                     | -284.2        | -162.0        | 1.05                                         | -0.43                | 57.98               | -23.3                  | -13.5                   |  |
| 11,408.0                             | 1.50       | 203.40                   | 11,387.9                     | -286.0        | -162.3        | 1.06                                         | 0.74                 | 40.53               | -28.4                  | 4.3                     |  |
| 11,471.0                             | 1.80       | 221.30                   | 11,450.9                     | -287.5        | -163.3        | 0.94                                         | 0.48                 | 28.41               | -27.5                  | 13.1                    |  |
| 11,525.0                             | 2.00       | 236.00                   | 11,504.9                     | -288.7        | -164.6        | 0.97                                         | 0.37                 | 27.22               | -25.0                  | 19.9                    |  |
| 11,619.0                             | 2.80       | 257.80                   | 11,598.8                     | -290.1        | -168.2        | 1.28                                         | 0.85                 | 23.19               | -19.7                  | 28.3                    |  |
| 11,713.0                             | 3.30       | 272.20                   | 11,692.7                     | -290.5        | -173.2        | 0.97                                         | 0.53                 | 15.32               | -16.9                  | 32.9                    |  |
| 11,807.0                             | 3.10       | 269.00                   | 11,786.5                     | -290.4        | -178.4        | 0.29                                         | -0.21                | -3.40               | -24.0                  | 31.8                    |  |
| 11,901.0                             | 2.80       | 263.70                   | 11,880.4                     | -290.7        | -183.3        | 0.43                                         | -0.32                | -5.64               | -31.6                  | 29.2                    |  |
| 11,995.0                             | 3.10       | 264.40                   | 11,974.3                     | -291.2        | -188.1        | 0.32                                         | 0.32                 | 0.74                | -36.1                  | 29.6                    |  |
| 12,089.0                             | 3.30       | 264.10                   | 12,068.1                     | -291.7        | -193.3        | 0.21                                         | 0.21                 | -0.32               | -41.5                  | 29.4                    |  |
| 12,184.0                             | 3.50       | 264.80                   | 12,163.0                     | -292.3        | -198.9        | 0.22                                         | 0.21                 | 0.74                | -46.8                  | 30.0                    |  |
| 12,278.0                             | 3.50       | 254.90                   | 12,256.8                     | -293.3        | -204.5        | 0.64                                         | 0.00                 | -10.53              | -56.9                  | 21.0                    |  |
| 12,353.0                             | 3.50       | 256.30                   | 12,331.6                     | -294.4        | -209.0        | 0.11                                         | 0.00                 | 1.87                | -61.0                  | 22.4                    |  |
| 12,373.0                             | 3.30       | 255.70                   | 12,351.6                     | -294.7        | -210.1        | 1.02                                         | -1.00                | -3.00               | -62.4                  | 21.8                    |  |
| 12,398.8                             | 3.06       | 268.59                   | 12,377.4                     | -294.9        | -211.5        | 2.91                                         | -0.91                | 49.92               | -57.4                  | 35.3                    |  |
| KOP( Python 36 St Com #702H)         |            |                          |                              |               |               |                                              |                      |                     |                        |                         |  |
| 12,420.0                             | 3.00       | 280.20                   | 12,398.5                     | -294.8        | -212.6        | 2.91                                         | -0.30                | 54.82               | -50.1                  | 46.5                    |  |
| 12,467.0                             | 4.90       | 337.90                   | 12,445.4                     | -292.7        | -214.6        | 8.85                                         | 4.04                 | 122.77              | 13.2                   | 69.6                    |  |
| 12,514.0                             | 13.40      | 7.80                     | 12,491.8                     | -285.5        | -214.6        | 20.14                                        | 18.09                | 63.62               | 46.5                   | 53.9                    |  |
| 12,561.0                             | 19.60      | 0.80                     | 12,536.9                     | -272.2        | -213.8        | 13.83                                        | 13.19                | -14.89              | 38.4                   | 58.2                    |  |



# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #702H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3582.0usft (HP 379) |
| Site:     | Python 36 State Com         | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |
| Well:     | #702H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey                                                                    |            |                          |               |               |               |                     |                      |                     |                        |                         |  |  |
|---------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|--|
| MD<br>(usft)                                                              | Inc<br>(") | Azi<br>(grid_north_azim) | 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) |  |  |
| 12,608.0                                                                  | 23.10      | 1.80                     | 12,580.6      | -255.1        | -213.4        | 7.49                | 7.45                 | 2.13                | 38.2                   | 57.1                    |  |  |
| 12,655.0                                                                  | 25.90      | 3.80                     | 12,623.4      | -235.6        | -212.4        | 6.21                | 5.96                 | 4.26                | 40.6                   | 54.8                    |  |  |
| 12,702.0                                                                  | 26.10      | 9.30                     | 12,665.7      | -215.2        | -210.0        | 5.15                | 0.43                 | 11.70               | 48.3                   | 48.4                    |  |  |
| 12,749.0                                                                  | 30.30      | 7.60                     | 12,707.1      | -193.2        | -206.8        | 9.10                | 8.94                 | -3.62               | 52.6                   | 45.9                    |  |  |
| 12,796.0                                                                  | 38.90      | 10.80                    | 12,745.7      | -166.9        | -202.5        | 18.70               | 18.30                | 6.81                | 58.8                   | 38.8                    |  |  |
| 12,843.0                                                                  | 45.60      | 8.80                     | 12,780.5      | -135.8        | -197.1        | 14.54               | 14.26                | -4.26               | 59.9                   | 35.1                    |  |  |
| 12,890.0                                                                  | 54.30      | 5.20                     | 12,810.7      | -100.1        | -192.8        | 19.41               | 18.51                | -7.66               | 58.6                   | 33.7                    |  |  |
| 12,938.0                                                                  | 59.50      | 1.90                     | 12,836.9      | -60.0         | -190.4        | 12.27               | 10.83                | -6.87               | 56.5                   | 33.2                    |  |  |
| 12,985.0                                                                  | 67.90      | 3.70                     | 12,857.7      | -17.9         | -188.3        | 18.20               | 17.87                | 3.83                | 54.5                   | 30.5                    |  |  |
| 13,021.9                                                                  | 72.85      | 1.56                     | 12,870.1      | 16.8          | -186.7        | 14.46               | 13.40                | -5.79               | 50.8                   | 29.8                    |  |  |
| FTP( Python 36 St Com #702H)                                              |            |                          |               |               |               |                     |                      |                     |                        |                         |  |  |
| 13,024.0                                                                  | 73.13      | 1.45                     | 12,870.7      | 18.8          | -186.6        | 14.46               | 13.43                | -5.61               | 50.5                   | 29.8                    |  |  |
| HL Crossing, MD:13024.0', TVD:12870.7', N/S:18.8', E/W:-186.6', INC:73.13 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |  |
| 13,032.0                                                                  | 74.20      | 1.00                     | 12,873.0      | 26.4          | -186.5        | 14.46               | 13.44                | -5.57               | 49.7                   | 29.8                    |  |  |
| 13,079.0                                                                  | 78.70      | 0.60                     | 12,884.0      | 72.1          | -185.8        | 9.61                | 9.57                 | -0.85               | 45.2                   | 29.1                    |  |  |
| 13,127.0                                                                  | 86.10      | 1.50                     | 12,890.3      | 119.7         | -185.0        | 15.53               | 15.42                | 1.87                | 40.0                   | 28.0                    |  |  |
| 13,174.0                                                                  | 90.00      | 2.20                     | 12,891.9      | 166.6         | -183.4        | 8.43                | 8.30                 | 1.49                | 34.7                   | 26.3                    |  |  |
| 13,221.0                                                                  | 91.10      | 1.50                     | 12,891.5      | 213.6         | -181.9        | 2.77                | 2.34                 | -1.49               | 31.6                   | 24.6                    |  |  |
| 13,316.0                                                                  | 91.70      | 1.80                     | 12,889.2      | 308.5         | -179.2        | 0.71                | 0.63                 | 0.32                | 28.6                   | 21.4                    |  |  |
| 13,410.0                                                                  | 90.20      | 3.20                     | 12,887.6      | 402.4         | -175.1        | 2.18                | -1.60                | 1.49                | 26.5                   | 16.8                    |  |  |
| 13,500.0                                                                  | 89.40      | 1.50                     | 12,887.9      | 492.3         | -171.4        | 2.09                | -0.89                | -1.89               | 26.2                   | 12.6                    |  |  |
| 13,594.0                                                                  | 87.70      | 359.40                   | 12,890.3      | 586.3         | -170.7        | 2.87                | -1.81                | -2.23               | 27.9                   | 11.4                    |  |  |
| 13,688.0                                                                  | 89.10      | 359.00                   | 12,892.9      | 680.2         | -172.0        | 1.55                | 1.49                 | -0.43               | 30.0                   | 12.3                    |  |  |
| 13,782.0                                                                  | 90.20      | 358.00                   | 12,893.5      | 774.2         | -174.4        | 1.58                | 1.17                 | -1.06               | 29.9                   | 14.3                    |  |  |
| 13,877.0                                                                  | 90.40      | 357.60                   | 12,893.0      | 869.1         | -178.1        | 0.47                | 0.21                 | -0.42               | 28.8                   | 17.4                    |  |  |
| 13,972.0                                                                  | 90.60      | 356.80                   | 12,892.2      | 964.0         | -182.7        | 0.87                | 0.21                 | -0.84               | 27.4                   | 21.6                    |  |  |

# PVA Report

|           |  |                             |  |  |  |                              |  |                               |  |
|-----------|--|-----------------------------|--|--|--|------------------------------|--|-------------------------------|--|
| Company:  |  | EOG Resources - Midland     |  |  |  | Local Co-ordinate Reference: |  | Well #702H                    |  |
| Project:  |  | Lea County, NM (NAD 83 NME) |  |  |  | TVD Reference:               |  | KB = 25 @ 3582.0usft (HP 379) |  |
| Site:     |  | Python 36 State Com         |  |  |  | MD Reference:                |  | KB = 25 @ 3582.0usft (HP 379) |  |
| Well:     |  | #702H                       |  |  |  | North Reference:             |  | Grid                          |  |
| Wellbore: |  | OH                          |  |  |  | Survey Calculation Method:   |  | Minimum Curvature             |  |
| Design:   |  | OH                          |  |  |  | Database:                    |  | EDM 5000.14                   |  |

  

| Survey                         |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|--------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                   | Inc<br>(°) | Azi<br>(grid_north_azim) | 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) |  |
| 14,002.5                       | 91.27      | 356.80                   | 12,891.7      | 994.5         | -184.4        | 2.21                | 2.21                 | 0.00                | 26.7                   | 23.1                    |  |
| TGT 1( Python 36 St Com #702H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 14,067.0                       | 92.70      | 356.80                   | 12,889.4      | 1,058.8       | -188.0        | 2.21                | 2.21                 | 0.00                | 24.0                   | 26.4                    |  |
| 14,161.0                       | 92.30      | 358.00                   | 12,885.3      | 1,152.6       | -192.3        | 1.34                | -0.43                | 1.28                | 19.2                   | 30.2                    |  |
| 14,256.0                       | 91.40      | 357.30                   | 12,882.3      | 1,247.5       | -196.2        | 1.20                | -0.95                | -0.74               | 15.5                   | 33.6                    |  |
| 14,364.0                       | 89.80      | 0.50                     | 12,881.1      | 1,355.4       | -198.3        | 3.31                | -1.48                | 2.96                | 13.6                   | 35.2                    |  |
| 14,458.0                       | 90.20      | 1.00                     | 12,881.1      | 1,449.4       | -197.0        | 0.68                | 0.43                 | 0.53                | 13.0                   | 33.5                    |  |
| 14,553.0                       | 88.80      | 1.40                     | 12,882.0      | 1,544.4       | -195.0        | 1.53                | -1.47                | 0.42                | 13.1                   | 31.0                    |  |
| 14,648.0                       | 90.40      | 1.80                     | 12,882.6      | 1,639.4       | -192.4        | 1.74                | 1.68                 | 0.42                | 13.1                   | 27.9                    |  |
| 14,743.0                       | 89.80      | 1.60                     | 12,882.5      | 1,734.3       | -189.6        | 0.67                | -0.63                | -0.21               | 12.3                   | 24.6                    |  |
| 14,837.0                       | 87.80      | 0.90                     | 12,884.4      | 1,828.3       | -187.5        | 2.25                | -2.13                | -0.74               | 13.6                   | 22.1                    |  |
| 14,931.0                       | 87.80      | 0.60                     | 12,888.0      | 1,922.2       | -186.3        | 0.32                | 0.00                 | -0.32               | 16.6                   | 20.4                    |  |
| 15,004.3                       | 88.19      | 0.13                     | 12,890.6      | 1,995.5       | -185.8        | 0.83                | 0.53                 | -0.64               | 18.6                   | 19.5                    |  |
| TGT 2( Python 36 St Com #702H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 15,025.0                       | 88.30      | 0.00                     | 12,891.2      | 2,016.1       | -185.8        | 0.83                | 0.53                 | -0.64               | 19.1                   | 19.4                    |  |
| 15,119.0                       | 88.70      | 0.40                     | 12,893.7      | 2,110.1       | -185.5        | 0.60                | 0.43                 | 0.43                | 20.9                   | 18.6                    |  |
| 15,213.0                       | 90.60      | 0.20                     | 12,894.3      | 2,204.1       | -185.0        | 2.03                | 2.02                 | -0.21               | 20.8                   | 17.7                    |  |
| 15,307.0                       | 91.60      | 0.50                     | 12,892.5      | 2,298.1       | -184.4        | 1.11                | 1.06                 | 0.32                | 18.3                   | 16.8                    |  |
| 15,402.0                       | 90.60      | 0.40                     | 12,890.6      | 2,393.1       | -183.6        | 1.06                | -1.05                | -0.11               | 15.9                   | 15.8                    |  |
| 15,496.0                       | 90.40      | 0.30                     | 12,889.8      | 2,487.0       | -183.1        | 0.24                | -0.21                | -0.11               | 14.4                   | 14.8                    |  |
| 15,590.0                       | 88.10      | 359.20                   | 12,891.1      | 2,581.0       | -183.5        | 2.71                | -2.45                | -1.17               | 15.0                   | 14.0                    |  |
| 15,684.0                       | 91.90      | 0.50                     | 12,891.1      | 2,675.0       | -183.7        | 4.27                | 4.04                 | 1.38                | 14.3                   | 13.0                    |  |
| 15,778.0                       | 90.50      | 359.50                   | 12,889.1      | 2,769.0       | -183.7        | 1.83                | -1.49                | -1.06               | 11.7                   | 11.7                    |  |
| 15,872.0                       | 94.50      | 2.60                     | 12,885.0      | 2,862.9       | -182.0        | 5.38                | 4.26                 | 3.30                | 6.9                    | 6.9                     |  |
| 15,966.0                       | 92.70      | 3.40                     | 12,879.1      | 2,956.5       | -177.1        | 2.09                | -1.91                | 0.85                | 0.3                    | 0.3                     |  |
| 16,005.8                       | 90.92      | 4.12                     | 12,877.8      | 2,996.2       | -174.5        | 4.82                | -4.47                | 1.81                | -1.2                   | -1.2                    |  |
| TGT 3( Python 36 St Com #702H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |

# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #702H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3582.0usft (HP 379) |
| Site:     | Python 36 State Com         | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |
| Well:     | #702H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Survey                                                                      |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
|-----------------------------------------------------------------------------|------------|--------------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                                                                | Inc<br>(") | Azi<br>(grid_north_azim) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>("/100usft) | Bulid<br>("/100usft) | Turn<br>("/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 16,060.0                                                                    | 88.50      | 5.10                     | 12,878.1      | 3,050.2       | -170.1        | 4.82                | -4.47                | 1.81                | -1.2                   | -1.4                    |  |
| 16,154.0                                                                    | 86.10      | 5.60                     | 12,882.5      | 3,143.7       | -161.4        | 2.61                | -2.55                | 0.53                | 2.6                    | -10.6                   |  |
| 16,249.0                                                                    | 87.20      | 5.90                     | 12,888.1      | 3,238.1       | -151.9        | 1.20                | 1.16                 | 0.32                | 7.6                    | -20.6                   |  |
| 16,339.0                                                                    | 86.80      | 5.00                     | 12,892.8      | 3,327.6       | -143.3        | 1.09                | -0.44                | -1.00               | 11.7                   | -29.6                   |  |
| 16,433.0                                                                    | 84.10      | 1.10                     | 12,900.2      | 3,421.1       | -138.4        | 5.04                | -2.87                | -4.15               | 18.6                   | -35.1                   |  |
| 16,527.0                                                                    | 86.70      | 2.00                     | 12,907.8      | 3,514.7       | -135.8        | 2.93                | 2.77                 | 0.96                | 25.6                   | -38.1                   |  |
| 16,621.0                                                                    | 90.20      | 359.10                   | 12,910.3      | 3,608.7       | -134.9        | 4.83                | 3.72                 | -3.09               | 27.7                   | -39.4                   |  |
| 16,715.0                                                                    | 91.60      | 357.00                   | 12,908.9      | 3,702.6       | -138.1        | 2.68                | 1.49                 | -2.23               | 25.6                   | -36.7                   |  |
| 16,809.0                                                                    | 92.90      | 358.60                   | 12,905.2      | 3,796.5       | -141.7        | 2.19                | 1.38                 | 1.70                | 21.3                   | -33.6                   |  |
| 16,903.0                                                                    | 90.50      | 359.40                   | 12,902.4      | 3,890.4       | -143.4        | 2.69                | -2.55                | 0.85                | 18.0                   | -32.4                   |  |
| 16,997.0                                                                    | 89.70      | 359.80                   | 12,902.2      | 3,984.4       | -144.0        | 0.95                | -0.85                | 0.43                | 17.3                   | -32.2                   |  |
| 17,008.9                                                                    | 89.79      | 359.80                   | 12,902.3      | 3,996.3       | -144.1        | 0.74                | 0.74                 | 0.00                | 17.3                   | -32.2                   |  |
| TGT 4( Python 36 St Com #702H)                                              |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 17,091.0                                                                    | 90.40      | 359.80                   | 12,902.1      | 4,078.4       | -144.3        | 0.74                | 0.74                 | 0.00                | 16.3                   | -32.3                   |  |
| 17,185.0                                                                    | 88.20      | 358.90                   | 12,903.3      | 4,172.4       | -145.4        | 2.53                | -2.34                | -0.96               | 16.4                   | -31.7                   |  |
| 17,279.0                                                                    | 88.70      | 358.00                   | 12,905.8      | 4,266.3       | -148.0        | 1.09                | 0.53                 | -0.96               | 18.0                   | -29.7                   |  |
| 17,373.0                                                                    | 89.50      | 357.10                   | 12,907.3      | 4,360.2       | -152.0        | 1.28                | 0.85                 | -0.96               | 18.4                   | -26.1                   |  |
| 17,467.0                                                                    | 92.20      | 357.60                   | 12,905.9      | 4,454.1       | -156.3        | 2.92                | 2.87                 | 0.53                | 16.0                   | -22.3                   |  |
| 17,561.0                                                                    | 94.20      | 356.70                   | 12,900.7      | 4,547.8       | -161.0        | 2.33                | 2.13                 | -0.96               | 9.7                    | -18.1                   |  |
| 17,653.8                                                                    | 96.96      | 356.11                   | 12,891.6      | 4,640.0       | -166.8        | 3.05                | 2.98                 | -0.64               | -0.4                   | -12.7                   |  |
| HL Crossing, MD:17653.8', TVD:12891.6', N/S:4640.0', E/W:-166.8', INC:96.96 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 17,655.0                                                                    | 97.00      | 356.10                   | 12,891.5      | 4,641.2       | -166.9        | 3.05                | 2.98                 | -0.64               | -0.5                   | -12.6                   |  |
| 17,691.0                                                                    | 97.80      | 355.90                   | 12,886.8      | 4,676.8       | -169.3        | 2.29                | 2.22                 | -0.56               | -5.5                   | -10.3                   |  |
| Final MWD Survey (MD=17691.0')                                              |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 17,752.0                                                                    | 97.80      | 355.90                   | 12,878.6      | 4,737.1       | -173.7        | 0.00                | 0.00                 | 0.00                | -14.4                  | -6.3                    |  |
| Final Projection to Bit (MD=17752.0') - PBHL( Python 36 St Com #702H)       |            |                          |               |               |               |                     |                      |                     |                        |                         |  |



# PVA Report

|           |                             |                              |                               |
|-----------|-----------------------------|------------------------------|-------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #702H                    |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25 @ 3582.0usft (HP 379) |
| Site:     | Python 36 State Com         | MD Reference:                | KB = 25 @ 3582.0usft (HP 379) |
| Well:     | #702H                       | North Reference:             | Grid                          |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature             |
| Design:   | OH                          | Database:                    | EDM 5000.14                   |

| Design Annotations    |                       |                   |             |                                                                             |
|-----------------------|-----------------------|-------------------|-------------|-----------------------------------------------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |             | Comment                                                                     |
|                       |                       | +N-S (usft)       | +E-W (usft) |                                                                             |
| 13,024.0              | 12,870.7              | 18.8              | -186.6      | HL Crossing, MD:13024.0', TVD:12870.7', N/S:18.8', E/W:-186.6', INC:73.13   |
| 17,653.8              | 12,891.6              | 4,640.0           | -166.8      | HL Crossing, MD:17653.8', TVD:12891.6', N/S:4640.0', E/W:-166.8', INC:96.96 |
| 17,691.0              | 12,886.8              | 4,676.8           | -169.3      | Final MWD Survey (MD=17691.0')                                              |
| 17,752.0              | 12,878.6              | 4,737.1           | -173.7      | Final Projection to Bit (MD=17752.0')                                       |

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





Lea County, NM (NAD 83 NME)

Python 36 State Com #702H

HP 379

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: #702H

KB = 25 @ 3582.0ust (HP 379)  
Northing 425448.00 Easting 757561.00 Latitude 32° 10' 3.737 N Longitude 103° 38' 4.358 W



Azimuths to Grid North  
True North: -0.37°  
Magnetic North: 6.55°  
Magnetic Field  
Strength: 47840.5nT  
Dip Angle: 59.99°  
Date: 1/14/2018  
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.55°  
To convert a Magnetic Direction to a True Direction, Add 6.92° East  
To convert a True Direction to a Grid Direction, Subtract 6.37°

#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +NI-S  | +EI-W  | Dleg  | TFace  | Vsect  | Target | Annotation |
|-----|---------|-------|--------|---------|--------|--------|-------|--------|--------|--------|------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |        |            |
| 2   | 5000.0  | 0.00  | 0.00   | 5000.0  | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |        |            |
| 3   | 5420.1  | 8.40  | 210.97 | 5418.6  | -26.4  | -15.8  | 2.00  | 210.97 | -25.7  |        |            |
| 4   | 7060.8  | 8.40  | 210.97 | 7041.4  | -231.9 | -139.2 | 0.00  | 0.00   | -226.4 |        |            |
| 5   | 7480.6  | 0.00  | 0.00   | 7460.0  | -258.2 | -155.0 | 2.00  | 180.00 | -252.2 |        |            |
| 6   | 12403.1 | 0.00  | 0.00   | 12382.5 | -258.2 | -155.0 | 0.00  | 0.00   | -252.2 |        |            |
| 7   | 13150.0 | 89.63 | 359.71 | 12860.0 | 216.1  | -157.4 | 12.00 | 359.71 | 221.9  |        |            |
| 8   | 13928.9 | 89.63 | 359.71 | 12865.0 | 995.0  | -161.3 | 0.00  | 0.00   | 1000.4 |        |            |
| 9   | 13930.4 | 89.60 | 359.71 | 12855.0 | 996.5  | -161.3 | 2.00  | 180.00 | 1001.9 |        |            |
| 10  | 14930.0 | 89.60 | 359.71 | 12872.0 | 1996.0 | -166.3 | 0.00  | 0.00   | 2000.9 |        |            |
| 11  | 16930.0 | 89.60 | 359.71 | 12879.0 | 2996.0 | -171.3 | 0.00  | 0.00   | 3000.3 |        |            |
| 12  | 16932.8 | 89.66 | 359.71 | 12879.0 | 2996.9 | -171.3 | 2.00  | 0.00   | 3003.2 |        |            |
| 13  | 16930.2 | 89.66 | 359.71 | 12885.0 | 3996.2 | -176.3 | 0.00  | 0.00   | 4000.0 |        |            |
| 14  | 16944.0 | 89.38 | 359.71 | 12885.1 | 4010.0 | -176.3 | 2.00  | 180.00 | 4013.8 |        |            |
| 15  | 17674.1 | 89.38 | 359.71 | 12893.0 | 4740.0 | -180.0 | 0.00  | 0.00   | 4743.4 |        |            |

#### CASING DETAILS

No casing data is available

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

| Name                           | TVD     | +NI-S  | +EI-W  | Northing  | Easting   |
|--------------------------------|---------|--------|--------|-----------|-----------|
| TGT 1 (Python 36 St Com #702H) | 12865.0 | 995.0  | -161.3 | 425443.00 | 757399.73 |
| TGT 2 (Python 36 St Com #702H) | 12872.0 | 1996.0 | -166.3 | 427444.00 | 757394.72 |
| TGT 3 (Python 36 St Com #702H) | 12879.0 | 2996.0 | -171.3 | 428444.00 | 757389.72 |
| TGT 4 (Python 36 St Com #702H) | 12885.0 | 3996.2 | -176.3 | 428444.20 | 757384.72 |
| PBHL (Python 36 St Com #702H)  | 12893.0 | 4740.0 | -180.0 | 430188.00 | 757391.00 |
| FTP (Python 36 St Com #702H)   | 12860.0 | 19.0   | -156.0 | 425467.00 | 757405.00 |
| KOP (Python 36 St Com #702H)   | 12382.5 | -258.2 | -118.3 | 425169.76 | 757442.71 |

