

**HOBBS OCD**

**MAR 05 2018**

**RECEIVED**



## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Condor 32 State

#707H

OH

Design: OH

## **PVA Report**

27 December, 2017



# PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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                  | Condor 32 State |                   |                   |
| Site Position:        |                 | Northing:         | 398,890.00 usft   |
| From:                 | Map             | Easting:          | 803,604.00 usft   |
| Position Uncertainty: | 0.0 usft        | Slot Radius:      | 13-3/16 "         |
|                       |                 | Latitude:         | 32° 5' 37.669 N   |
|                       |                 | Longitude:        | 103° 29' 11.148 W |
|                       |                 | Grid Convergence: | 0.45 °            |

|                      |          |                     |                   |
|----------------------|----------|---------------------|-------------------|
| Well                 | #707H    |                     |                   |
| Well Position        | +N/-S    | 0.0 usft            | Northing:         |
|                      | +E/-W    | 0.0 usft            | Easting:          |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft              |
|                      |          | Latitude:           | 32° 5' 37.075 N   |
|                      |          | Longitude:          | 103° 29' 12.653 W |
|                      |          | Ground Level:       | 3,321.0 usft      |

|           |            |             |                        |
|-----------|------------|-------------|------------------------|
| Wellbore  | OH         |             |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°)     |
|           | IGRF2015   | 10/17/2017  | 6.87                   |
|           |            |             | Dip Angle<br>(°)       |
|           |            |             | 59.95                  |
|           |            |             | Field Strength<br>(nT) |
|           |            |             | 47,835.92175565        |

|                   |                            |                 |                  |
|-------------------|----------------------------|-----------------|------------------|
| Design            | OH                         |                 |                  |
| Audit Notes:      |                            |                 |                  |
| Version:          | 1.0                        | Phase:          | ACTUAL           |
|                   |                            | Tie On Depth:   | 0.0              |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft)  |
|                   | 0.0                        | 0.0             | 0.0              |
|                   |                            |                 | Direction<br>(°) |
|                   |                            |                 | 182.98           |



# PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | North Reference:             | Grid                           |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature              |
| Design:   | OH                          | Database:                    | EDM 5000.14                    |

| Survey Program | Date      | 12/27/2017        |           |                |  |
|----------------|-----------|-------------------|-----------|----------------|--|
| From (usft)    | To (usft) | Survey (Wellbore) | Tool Name | Description    |  |
| 197.0          | 862.0     | Olebrook MWD (OH) | MWD       | MWD - Standard |  |
| 966.0          | 17,465.0  | Intrepid MWD (OH) | MWD       | 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                  |
| 197.0     | 0.44    | 201.87                | 197.0      | -0.7       | -0.3       | 0.22             | 0.22              | 0.00             | -0.8                | 0.0                  |
| 377.0     | 0.35    | 181.84                | 377.0      | -1.9       | -0.6       | 0.09             | -0.05             | -11.13           | -1.9                | -0.5                 |
| 503.0     | 0.44    | 109.94                | 503.0      | -2.4       | -0.1       | 0.37             | 0.07              | -57.06           | -0.7                | -2.3                 |
| 597.0     | 0.35    | 220.95                | 597.0      | -2.8       | 0.0        | 0.69             | -0.10             | 118.10           | -2.1                | 1.9                  |
| 691.0     | 0.97    | 137.80                | 691.0      | -3.6       | 0.4        | 1.05             | 0.66              | -88.46           | -2.9                | -2.1                 |
| 785.0     | 0.62    | 116.97                | 785.0      | -4.4       | 1.4        | 0.48             | -0.37             | -22.16           | -3.2                | -3.3                 |
| 862.0     | 0.70    | 208.82                | 862.0      | -5.0       | 1.5        | 1.23             | 0.10              | 119.29           | -3.7                | 3.7                  |
| 966.0     | 0.62    | 178.31                | 966.0      | -6.1       | 1.2        | 0.34             | -0.08             | -29.34           | -6.2                | 1.0                  |
| 1,152.0   | 0.79    | 162.14                | 1,152.0    | -8.4       | 1.6        | 0.14             | 0.09              | -8.69            | -8.5                | -1.0                 |
| 1,337.0   | 0.70    | 193.08                | 1,336.9    | -10.7      | 1.8        | 0.22             | -0.05             | 16.72            | -10.0               | 4.2                  |
| 1,523.0   | 0.92    | 262.25                | 1,522.9    | -12.0      | 0.0        | 0.50             | 0.12              | 37.19            | -1.6                | 11.9                 |
| 1,711.0   | 1.41    | 318.68                | 1,710.9    | -10.4      | -3.0       | 0.63             | 0.26              | 30.02            | 5.9                 | 9.1                  |
| 1,899.0   | 2.02    | 330.01                | 1,898.8    | -5.8       | -6.2       | 0.37             | 0.32              | 6.03             | 2.0                 | 8.3                  |
| 2,087.0   | 2.37    | 333.09                | 2,086.7    | 0.5        | -9.6       | 0.20             | 0.19              | 1.64             | -4.8                | 8.3                  |
| 2,275.0   | 2.51    | 333.35                | 2,274.5    | 7.6        | -13.2      | 0.07             | 0.07              | 0.14             | -12.7               | 8.4                  |
| 2,464.0   | 2.68    | 335.02                | 2,463.3    | 15.3       | -16.9      | 0.10             | 0.09              | 0.88             | -21.0               | 8.8                  |
| 2,652.0   | 1.98    | 324.65                | 2,651.1    | 22.0       | -20.6      | 0.43             | -0.37             | -5.52            | -29.9               | 4.1                  |
| 2,840.0   | 1.71    | 322.10                | 2,839.0    | 26.8       | -24.2      | 0.15             | -0.14             | -1.36            | -36.1               | 2.6                  |
| 3,026.0   | 1.76    | 358.75                | 3,025.0    | 31.9       | -26.0      | 0.59             | 0.03              | 19.70            | -32.4               | 25.3                 |
| 3,214.0   | 2.07    | 4.47                  | 3,212.9    | 38.2       | -25.8      | 0.19             | 0.16              | 3.04             | -36.0               | 28.7                 |



PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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) |  |
| 3,401.0      | 0.84       | 340.56                   | 3,399.8       | 42.8          | -26.0         | 0.72                | -0.66                | -12.79              | -49.0                  | 10.3                    |  |
| 3,588.0      | 0.35       | 276.22                   | 3,586.8       | 44.2          | -27.0         | 0.40                | -0.26                | -34.41              | -31.6                  | -41.0                   |  |
| 3,776.0      | 0.84       | 269.72                   | 3,774.8       | 44.2          | -29.0         | 0.26                | 0.26                 | -3.46               | -28.8                  | -44.4                   |  |
| 3,962.0      | 0.70       | 314.98                   | 3,960.8       | 45.0          | -31.1         | 0.33                | -0.08                | 24.33               | -53.9                  | -9.8                    |  |
| 4,151.0      | 1.32       | 306.02                   | 4,149.7       | 47.1          | -33.7         | 0.34                | 0.33                 | -4.74               | -55.0                  | -18.3                   |  |
| 4,338.0      | 2.11       | 301.27                   | 4,336.7       | 50.2          | -38.4         | 0.43                | 0.42                 | -2.54               | -52.3                  | -23.1                   |  |
| 4,526.0      | 1.71       | 322.98                   | 4,524.5       | 54.2          | -43.0         | 0.44                | -0.21                | 11.55               | -46.7                  | -7.9                    |  |
| 4,713.0      | 2.42       | 314.37                   | 4,711.4       | 59.2          | -47.5         | 0.41                | 0.38                 | -4.60               | -32.7                  | -20.0                   |  |
| 4,901.0      | 0.84       | 338.98                   | 4,899.3       | 63.3          | -50.9         | 0.90                | -0.84                | 13.09               | -27.8                  | -15.3                   |  |
| 5,088.0      | 1.41       | 95.61                    | 5,086.3       | 64.3          | -49.1         | 1.04                | 0.30                 | 62.37               | -20.6                  | 24.9                    |  |
| 5,135.0      | 1.54       | 81.90                    | 5,133.3       | 64.4          | -47.9         | 0.80                | 0.28                 | -29.17              | -31.0                  | 16.2                    |  |
| 5,265.0      | 1.27       | 89.72                    | 5,263.3       | 64.6          | -44.7         | 0.25                | -0.21                | 6.02                | -43.4                  | 13.7                    |  |
| 5,453.0      | 5.36       | 269.28                   | 5,451.0       | 64.5          | -51.4         | 3.53                | 2.18                 | 95.51               | 53.7                   | -3.3                    |  |
| 5,640.0      | 6.77       | 283.69                   | 5,637.0       | 67.0          | -70.9         | 1.10                | 0.75                 | 7.71                | 50.5                   | -8.8                    |  |
| 5,827.0      | 6.73       | 282.03                   | 5,822.7       | 71.9          | -92.3         | 0.11                | -0.02                | -0.89               | 47.3                   | -1.7                    |  |
| 6,015.0      | 6.55       | 280.97                   | 6,009.4       | 76.2          | -113.6        | 0.12                | -0.10                | -0.56               | 44.2                   | 5.4                     |  |
| 6,203.0      | 7.12       | 293.28                   | 6,196.1       | 82.9          | -134.8        | 0.83                | 0.30                 | 6.55                | 41.7                   | 0.5                     |  |
| 6,390.0      | 6.95       | 291.84                   | 6,381.7       | 91.7          | -156.0        | 0.13                | -0.09                | -0.77               | 38.1                   | 4.0                     |  |
| 6,578.0      | 7.03       | 291.08                   | 6,568.3       | 100.0         | -177.3        | 0.07                | 0.04                 | -0.40               | 34.6                   | 7.4                     |  |
| 6,766.0      | 7.16       | 289.14                   | 6,754.9       | 108.0         | -199.1        | 0.14                | 0.07                 | -1.03               | 30.4                   | 11.9                    |  |
| 6,954.0      | 7.87       | 299.78                   | 6,941.3       | 118.3         | -221.3        | 0.83                | 0.38                 | 5.66                | 27.3                   | 8.4                     |  |
| 7,141.0      | 8.09       | 298.55                   | 7,126.5       | 130.9         | -244.0        | 0.15                | 0.12                 | -0.66               | 20.6                   | 9.2                     |  |
| 7,329.0      | 7.78       | 298.11                   | 7,312.7       | 143.2         | -266.8        | 0.17                | -0.16                | -0.23               | 14.2                   | 9.9                     |  |
| 7,517.0      | 4.79       | 297.76                   | 7,499.5       | 152.9         | -285.0        | 1.59                | -1.59                | -0.19               | 11.5                   | 10.6                    |  |
| 7,705.0      | 2.24       | 311.29                   | 7,687.1       | 159.0         | -294.7        | 1.42                | -1.36                | 7.20                | 9.2                    | 8.1                     |  |
| 7,892.0      | 0.62       | 353.22                   | 7,874.1       | 162.4         | -297.6        | 0.98                | -0.87                | 22.42               | 8.5                    | 2.3                     |  |
| 8,080.0      | 0.31       | 306.19                   | 8,062.1       | 163.7         | -298.1        | 0.25                | -0.16                | -25.02              | 2.9                    | 7.0                     |  |



PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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) |  |
| 8,268.0                     | 0.40       | 141.66                   | 8,250.1       | 163.5         | -298.1        | 0.37                | 0.05                 | -87.52              | -4.8                   | -6.1                    |  |
| 8,455.0                     | 0.84       | 116.35                   | 8,437.1       | 162.3         | -296.5        | 0.27                | 0.24                 | -13.53              | -3.7                   | -7.9                    |  |
| 8,643.0                     | 0.62       | 112.22                   | 8,625.0       | 161.3         | -294.3        | 0.12                | -0.12                | -2.20               | -5.5                   | -8.2                    |  |
| 8,831.0                     | 0.62       | 130.24                   | 8,813.0       | 160.3         | -292.6        | 0.10                | 0.00                 | 9.59                | -9.8                   | -5.8                    |  |
| 9,018.0                     | 0.70       | 164.43                   | 9,000.0       | 158.6         | -291.5        | 0.21                | 0.04                 | 18.28               | -13.3                  | 1.3                     |  |
| 9,206.0                     | 0.48       | 190.18                   | 9,188.0       | 156.7         | -291.3        | 0.18                | -0.12                | 13.70               | -13.3                  | 7.4                     |  |
| 9,393.0                     | 0.53       | 310.59                   | 9,375.0       | 156.5         | -292.1        | 0.47                | 0.03                 | 64.39               | 12.7                   | 8.4                     |  |
| 9,581.0                     | 0.84       | 290.20                   | 9,563.0       | 157.5         | -294.1        | 0.21                | 0.16                 | -10.85              | 6.8                    | 12.0                    |  |
| 9,768.0                     | 1.63       | 301.27                   | 9,750.0       | 159.4         | -297.6        | 0.44                | 0.42                 | 5.92                | 4.9                    | 10.7                    |  |
| 9,956.0                     | 3.12       | 326.59                   | 9,937.8       | 165.0         | -302.7        | 0.95                | 0.79                 | 13.47               | 1.5                    | 8.7                     |  |
| 10,143.0                    | 2.59       | 328.87                   | 10,124.6      | 172.9         | -307.7        | 0.29                | -0.28                | 1.22                | -7.5                   | 8.8                     |  |
| 10,330.0                    | 1.63       | 347.59                   | 10,311.4      | 179.1         | -310.5        | 0.63                | -0.51                | 10.01               | -10.9                  | 12.1                    |  |
| 10,518.0                    | 1.36       | 9.12                     | 10,499.4      | 183.9         | -310.7        | 0.33                | -0.14                | 11.45               | -10.4                  | 16.3                    |  |
| 10,706.0                    | 3.47       | 305.76                   | 10,687.2      | 189.4         | -315.0        | 1.65                | 1.12                 | -33.70              | -25.9                  | -4.0                    |  |
| 10,894.0                    | 2.60       | 282.55                   | 10,875.0      | 193.7         | -323.7        | 0.79                | -0.46                | -12.35              | -31.7                  | -16.1                   |  |
| 11,082.0                    | 1.85       | 269.72                   | 11,062.8      | 194.6         | -330.9        | 0.48                | -0.40                | -6.82               | -34.5                  | -23.7                   |  |
| 11,269.0                    | 2.59       | 303.91                   | 11,249.7      | 196.9         | -337.5        | 0.79                | 0.40                 | 18.28               | -48.6                  | 1.5                     |  |
| 11,457.0                    | 2.24       | 274.03                   | 11,437.5      | 199.6         | -344.7        | 0.69                | -0.19                | -15.89              | -50.2                  | -25.1                   |  |
| 11,645.0                    | 2.02       | 244.14                   | 11,625.4      | 198.4         | -351.3        | 0.60                | -0.12                | -15.90              | -37.6                  | -48.6                   |  |
| 11,833.0                    | 2.33       | 257.15                   | 11,813.3      | 196.1         | -358.0        | 0.31                | 0.16                 | 6.92                | -54.6                  | -38.1                   |  |
| 11,890.0                    | 2.07       | 251.61                   | 11,870.2      | 195.5         | -360.1        | 0.59                | -0.46                | -9.72               | -52.8                  | -43.3                   |  |
| 11,953.0                    | 1.93       | 244.32                   | 11,933.2      | 194.7         | -362.2        | 0.46                | -0.22                | -11.57              | -49.1                  | -49.8                   |  |
| 12,047.0                    | 1.67       | 205.80                   | 12,027.1      | 192.8         | -364.2        | 1.29                | -0.28                | -40.98              | -10.0                  | -70.6                   |  |
| 12,141.0                    | 2.20       | 196.33                   | 12,121.1      | 189.8         | -365.3        | 0.66                | 0.56                 | -10.07              | -1.4                   | -71.5                   |  |
| 12,166.8                    | 4.38       | 186.94                   | 12,146.9      | 188.3         | -365.5        | 8.65                | 8.42                 | -36.33              | 8.8                    | -70.8                   |  |
| KOP (Condor 32 State #707H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 12,234.0                    | 10.15      | 181.65                   | 12,213.5      | 179.9         | -366.0        | 8.65                | 8.60                 | -7.88               | 11.6                   | -70.1                   |  |



# PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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) |
| 12,280.0                                                                     | 16.48      | 169.53                   | 12,258.2      | 169.4         | -364.9        | 14.97               | 13.76                | -26.35              | 23.3                   | -65.7                   |
| 12,328.0                                                                     | 23.30      | 163.46                   | 12,303.3      | 153.6         | -361.0        | 14.83               | 14.21                | -12.65              | 25.7                   | -60.3                   |
| 12,374.0                                                                     | 28.97      | 161.97                   | 12,344.6      | 134.3         | -355.0        | 12.41               | 12.33                | -3.24               | 22.1                   | -55.1                   |
| 12,422.0                                                                     | 30.37      | 163.72                   | 12,386.3      | 111.6         | -348.0        | 3.43                | 2.92                 | 3.65                | 17.6                   | -49.4                   |
| 12,468.0                                                                     | 30.68      | 160.91                   | 12,426.0      | 89.3          | -340.9        | 3.17                | 0.67                 | -6.11               | 20.2                   | -41.3                   |
| 12,516.0                                                                     | 40.35      | 160.82                   | 12,465.0      | 63.0          | -331.7        | 20.15               | 20.15                | -0.19               | 20.1                   | -32.4                   |
| 12,562.0                                                                     | 46.42      | 163.20                   | 12,498.4      | 32.9          | -322.0        | 13.66               | 13.20                | 5.17                | 17.5                   | -23.9                   |
| 12,610.0                                                                     | 48.88      | 165.57                   | 12,530.7      | -1.2          | -312.5        | 6.29                | 5.12                 | 4.94                | 16.8                   | -15.2                   |
| 12,656.0                                                                     | 55.87      | 171.19                   | 12,558.8      | -36.9         | -305.2        | 18.01               | 15.20                | 12.22               | 16.8                   | -9.4                    |
| 12,703.0                                                                     | 64.31      | 173.74                   | 12,582.2      | -77.2         | -299.9        | 18.56               | 17.96                | 5.43                | 16.0                   | -5.1                    |
| 12,741.0                                                                     | 69.47      | 176.55                   | 12,597.1      | -112.0        | -297.0        | 15.19               | 13.57                | 7.41                | 14.3                   | -3.0                    |
| FTP Crossing, MD:12741.0', TVD:12597.1', N/S:-112.0', E/W:-297.0', INC:69.47 |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 12,746.0                                                                     | 70.15      | 176.91                   | 12,598.9      | -116.7        | -296.7        | 15.19               | 13.64                | 7.11                | 14.0                   | -2.8                    |
| 12,749.4                                                                     | 70.30      | 176.98                   | 12,600.0      | -120.0        | -296.6        | 4.67                | 4.31                 | 1.89                | 13.9                   | -2.7                    |
| FTP (Condor 32 State #707H)                                                  |            |                          |               |               |               |                     |                      |                     |                        |                         |
| 12,793.0                                                                     | 72.18      | 177.79                   | 12,614.0      | -161.2        | -294.7        | 4.67                | 4.32                 | 1.87                | 13.1                   | -1.3                    |
| 12,839.0                                                                     | 78.77      | 180.34                   | 12,625.6      | -205.6        | -294.0        | 15.30               | 14.33                | 5.54                | 13.1                   | -1.1                    |
| 12,887.0                                                                     | 85.98      | 182.18                   | 12,631.9      | -253.2        | -295.0        | 15.49               | 15.02                | 3.83                | 11.9                   | -2.6                    |
| 12,981.0                                                                     | 89.49      | 182.27                   | 12,635.7      | -347.0        | -298.7        | 3.74                | 3.73                 | 0.10                | 12.4                   | -7.0                    |
| 13,073.0                                                                     | 91.21      | 180.86                   | 12,635.1      | -439.0        | -301.2        | 2.42                | 1.87                 | -1.53               | 11.3                   | -10.4                   |
| 13,167.0                                                                     | 91.47      | 179.54                   | 12,632.9      | -532.9        | -301.5        | 1.43                | 0.28                 | -1.40               | 8.6                    | -11.5                   |
| 13,261.0                                                                     | 92.84      | 180.42                   | 12,629.4      | -626.9        | -301.5        | 1.73                | 1.46                 | 0.94                | 4.5                    | -12.4                   |
| 13,355.0                                                                     | 91.38      | 181.39                   | 12,625.9      | -720.8        | -302.9        | 1.86                | -1.55                | 1.03                | 0.5                    | -14.7                   |
| 13,449.0                                                                     | 89.89      | 181.65                   | 12,624.9      | -814.8        | -305.4        | 1.61                | -1.59                | 0.28                | -1.1                   | -18.0                   |
| 13,542.0                                                                     | 87.78      | 182.01                   | 12,626.7      | -907.7        | -308.4        | 2.30                | -2.27                | 0.39                | 0.2                    | -21.8                   |
| 13,620.2                                                                     | 87.78      | 181.13                   | 12,629.8      | -985.8        | -310.6        | 1.13                | 0.00                 | -1.13               | 2.8                    | -24.7                   |
| TGT 1 (Condor 32 State #707H)                                                |            |                          |               |               |               |                     |                      |                     |                        |                         |



PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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) |  |
| 13,636.0                      | 87.78      | 180.95                   | 12,630.4      | -1,001.6      | -310.8        | 1.13                | 0.00                 | -1.13               | 3.3                    | -25.1                   |  |
| 13,730.0                      | 88.40      | 179.28                   | 12,633.5      | -1,095.5      | -311.0        | 1.89                | 0.66                 | -1.78               | 5.9                    | -26.1                   |  |
| 13,824.0                      | 88.40      | 179.63                   | 12,636.1      | -1,189.5      | -310.1        | 0.37                | 0.00                 | 0.37                | 7.9                    | -26.1                   |  |
| 13,917.0                      | 89.45      | 178.31                   | 12,637.9      | -1,282.5      | -308.5        | 1.81                | 1.13                 | -1.42               | 9.1                    | -25.3                   |  |
| 14,011.0                      | 89.23      | 176.56                   | 12,639.0      | -1,376.3      | -304.3        | 1.88                | -0.23                | -1.86               | 9.7                    | -21.9                   |  |
| 14,105.0                      | 89.14      | 175.50                   | 12,640.3      | -1,470.1      | -297.7        | 1.13                | -0.10                | -1.13               | 10.4                   | -16.2                   |  |
| 14,199.0                      | 88.62      | 173.83                   | 12,642.1      | -1,563.7      | -289.0        | 1.86                | -0.55                | -1.78               | 11.7                   | -8.3                    |  |
| 14,293.0                      | 88.84      | 175.15                   | 12,644.2      | -1,657.2      | -280.0        | 1.42                | 0.23                 | 1.40                | 13.2                   | -0.2                    |  |
| 14,386.0                      | 88.35      | 177.17                   | 12,646.5      | -1,750.0      | -273.8        | 2.23                | -0.53                | 2.17                | 14.9                   | 5.2                     |  |
| 14,480.0                      | 87.96      | 177.08                   | 12,649.5      | -1,843.8      | -269.0        | 0.43                | -0.41                | -0.10               | 17.4                   | 9.0                     |  |
| 14,574.0                      | 89.32      | 178.05                   | 12,651.8      | -1,937.7      | -265.1        | 1.78                | 1.45                 | 1.03                | 19.1                   | 12.2                    |  |
| 14,624.3                      | 90.03      | 178.80                   | 12,652.1      | -1,988.0      | -263.7        | 2.05                | 1.40                 | 1.50                | 19.1                   | 13.1                    |  |
| TGT 2 (Condor 32 State #707H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 14,668.0                      | 90.64      | 179.46                   | 12,651.8      | -2,031.7      | -263.0        | 2.05                | 1.40                 | 1.50                | 18.5                   | 13.4                    |  |
| 14,762.0                      | 90.11      | 179.37                   | 12,651.2      | -2,125.7      | -262.1        | 0.57                | -0.56                | -0.10               | 17.2                   | 13.5                    |  |
| 14,856.0                      | 89.89      | 178.93                   | 12,651.2      | -2,219.7      | -260.7        | 0.52                | -0.23                | -0.47               | 16.6                   | 14.0                    |  |
| 14,949.0                      | 90.20      | 179.54                   | 12,651.1      | -2,312.6      | -259.4        | 0.74                | 0.33                 | 0.66                | 15.8                   | 14.4                    |  |
| 15,043.0                      | 90.46      | 179.28                   | 12,650.6      | -2,406.6      | -258.4        | 0.39                | 0.28                 | -0.28               | 14.6                   | 14.5                    |  |
| 15,137.0                      | 90.81      | 179.28                   | 12,649.5      | -2,500.6      | -257.3        | 0.37                | 0.37                 | 0.00                | 12.9                   | 14.9                    |  |
| 15,231.0                      | 90.37      | 179.46                   | 12,648.6      | -2,594.6      | -256.2        | 0.51                | -0.47                | 0.19                | 11.3                   | 15.0                    |  |
| 15,325.0                      | 89.41      | 179.63                   | 12,648.7      | -2,688.6      | -255.5        | 1.04                | -1.02                | 0.18                | 10.8                   | 14.9                    |  |
| 15,419.0                      | 88.97      | 179.72                   | 12,650.1      | -2,782.6      | -255.0        | 0.48                | -0.47                | 0.10                | 11.5                   | 14.6                    |  |
| 15,513.0                      | 89.32      | 179.37                   | 12,651.5      | -2,876.6      | -254.2        | 0.53                | 0.37                 | -0.37               | 12.3                   | 14.5                    |  |
| 15,607.0                      | 88.48      | 178.84                   | 12,653.3      | -2,970.6      | -252.7        | 1.06                | -0.89                | -0.56               | 13.4                   | 15.1                    |  |
| 15,625.9                      | 88.52      | 178.79                   | 12,653.8      | -2,989.4      | -252.3        | 0.36                | 0.23                 | -0.28               | 13.8                   | 15.3                    |  |
| TGT 3 (Condor 32 State #707H) |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 15,701.0                      | 88.70      | 178.58                   | 12,655.6      | -3,064.5      | -250.6        | 0.36                | 0.23                 | -0.28               | 15.1                   | 16.4                    |  |



# PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | 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) |  |
| 15,794.0                                                                      | 89.32      | 179.28                   | 12,657.2      | -3,157.5      | -248.9        | 1.01                | 0.67                 | 0.75                | 16.2                   | 17.3                    |  |
| 15,887.0                                                                      | 89.32      | 178.40                   | 12,658.3      | -3,250.4      | -247.0        | 0.95                | 0.00                 | -0.95               | 16.7                   | 18.3                    |  |
| 15,981.0                                                                      | 89.23      | 179.11                   | 12,659.5      | -3,344.4      | -245.0        | 0.76                | -0.10                | 0.76                | 17.4                   | 19.5                    |  |
| 16,075.0                                                                      | 88.53      | 180.42                   | 12,661.3      | -3,438.4      | -244.6        | 1.58                | -0.74                | 1.39                | 18.6                   | 19.0                    |  |
| 16,169.0                                                                      | 86.11      | 179.19                   | 12,665.7      | -3,532.3      | -244.3        | 2.89                | -2.57                | -1.31               | 22.5                   | 18.5                    |  |
| 16,263.0                                                                      | 86.37      | 178.67                   | 12,671.9      | -3,626.1      | -242.5        | 0.62                | 0.28                 | -0.55               | 28.1                   | 19.4                    |  |
| 16,356.0                                                                      | 90.42      | 179.46                   | 12,674.5      | -3,719.0      | -241.0        | 4.44                | 4.35                 | 0.85                | 30.1                   | 20.1                    |  |
| 16,450.0                                                                      | 89.05      | 178.31                   | 12,674.9      | -3,813.0      | -239.2        | 1.90                | -1.46                | -1.22               | 30.0                   | 21.1                    |  |
| 16,544.0                                                                      | 90.33      | 179.02                   | 12,675.4      | -3,906.9      | -237.0        | 1.56                | 1.36                 | 0.76                | 29.9                   | 22.4                    |  |
| 16,629.8                                                                      | 92.66      | 180.30                   | 12,673.2      | -3,992.7      | -236.5        | 3.09                | 2.71                 | 1.49                | 27.2                   | 22.1                    |  |
| TGT 4 (Condor 32 State #707H)                                                 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 16,638.0                                                                      | 92.88      | 180.42                   | 12,672.8      | -4,000.9      | -236.5        | 3.09                | 2.71                 | 1.49                | 26.7                   | 22.0                    |  |
| 16,731.0                                                                      | 89.89      | 180.60                   | 12,670.6      | -4,093.9      | -237.3        | 3.22                | -3.22                | 0.19                | 23.8                   | 20.3                    |  |
| 16,825.0                                                                      | 89.36      | 182.36                   | 12,671.2      | -4,187.8      | -239.8        | 1.96                | -0.56                | 1.87                | 23.8                   | 17.0                    |  |
| 16,919.0                                                                      | 90.20      | 182.71                   | 12,671.5      | -4,281.7      | -243.9        | 0.97                | 0.89                 | 0.37                | 23.5                   | 12.0                    |  |
| 17,013.0                                                                      | 90.11      | 182.44                   | 12,671.3      | -4,375.6      | -248.1        | 0.30                | -0.10                | -0.29               | 22.5                   | 6.9                     |  |
| 17,107.0                                                                      | 89.23      | 182.71                   | 12,671.8      | -4,469.5      | -252.4        | 0.98                | -0.94                | 0.29                | 22.4                   | 1.9                     |  |
| 17,201.0                                                                      | 89.10      | 182.09                   | 12,673.2      | -4,563.4      | -256.3        | 0.67                | -0.14                | -0.66               | 23.1                   | -2.9                    |  |
| 17,294.0                                                                      | 91.60      | 182.09                   | 12,672.6      | -4,656.4      | -259.7        | 2.69                | 2.69                 | 0.00                | 21.9                   | -7.1                    |  |
| 17,367.7                                                                      | 91.54      | 181.89                   | 12,670.6      | -4,730.0      | -262.3        | 0.29                | -0.09                | -0.28               | 19.3                   | -10.4                   |  |
| LTP Crossing, MD:17367.7', TVD:12670.6', N/S:-4730.0', E/W:-262.3', INC:91.54 |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 17,388.0                                                                      | 91.52      | 181.83                   | 12,670.1      | -4,750.3      | -262.9        | 0.29                | -0.09                | -0.28               | 18.6                   | -11.2                   |  |
| Final MWD Survey (MD= 17388.0')                                               |            |                          |               |               |               |                     |                      |                     |                        |                         |  |
| 17,465.0                                                                      | 91.52      | 181.83                   | 12,668.0      | -4,827.2      | -265.4        | 0.00                | 0.00                 | 0.00                | 16.0                   | -14.4                   |  |
| Final Bit Projection (MD= 17465.0') - PBHL (Condor 32 State #707H)            |            |                          |               |               |               |                     |                      |                     |                        |                         |  |



PVA Report

|           |                             |                              |                                |
|-----------|-----------------------------|------------------------------|--------------------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #707H                     |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3346.0usft (HP 620) |
| Site:     | Condor 32 State             | MD Reference:                | KB = 25' @ 3346.0usft (HP 620) |
| Well:     | #707H                       | North Reference:             | Grid                           |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature              |
| Design:   | OH                          | Database:                    | EDM 5000.14                    |

| Design Annotations          |                             |                   |                 |                                                                               |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                                                       |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                                               |
| 12,741.0                    | 12,597.1                    | -112.0            | -297.0          | FTP Crossing, MD:12741.0', TVD:12597.1', N/S:-112.0', E/W:-297.0', INC:69.47  |
| 17,367.7                    | 12,670.6                    | -4,730.0          | -262.3          | LTP Crossing, MD:17367.7', TVD:12670.6', N/S:-4730.0', E/W:-262.3', INC:91.54 |
| 17,388.0                    | 12,670.1                    | -4,750.3          | -262.9          | Final MWD Survey (MD= 17388.0')                                               |
| 17,465.0                    | 12,668.0                    | -4,827.2          | -265.4          | Final Bit Projection (MD= 17465.0')                                           |

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



Lea County, NM (NAD 83 NME)

Condor 32 State #707H

HP 620

Plan #2

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: #707H

KB = 25' @ 3346.0usft (HP 620)  
Northing 398829.00 Easting 803475.00 Latitude 32° 5' 37.075 N Longitude 103° 29' 12.653 W

#### SECTION DETAILS

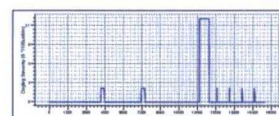
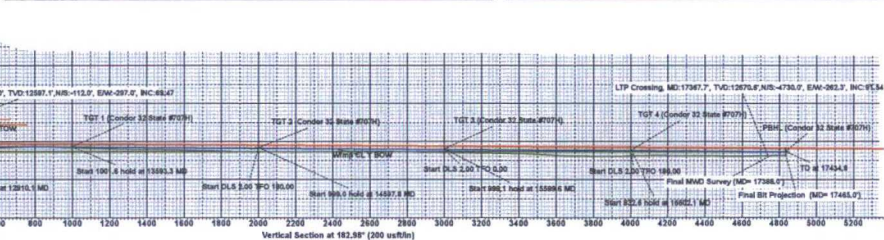
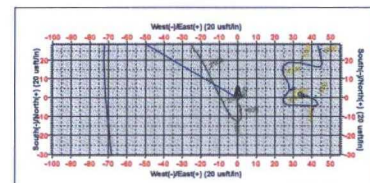
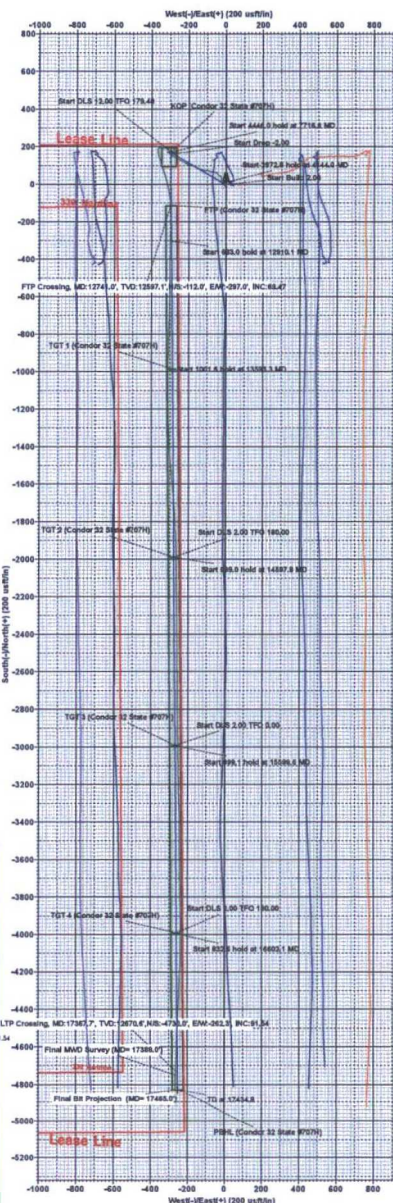
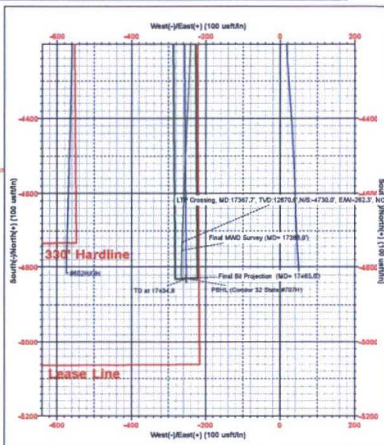
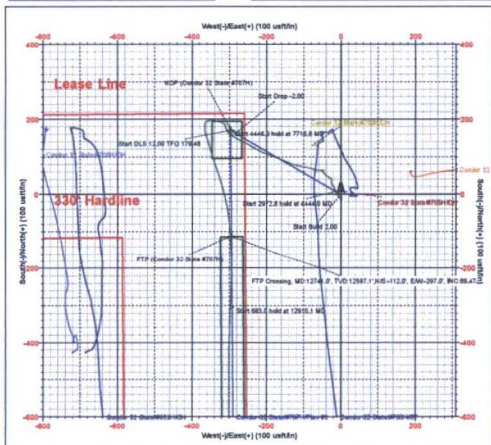
| Sec | MD      | Inc   | Azi    | TVD     | +N/S    | +E/W   | Dleg  | TFace   | Vsect  | Target                        |
|-----|---------|-------|--------|---------|---------|--------|-------|---------|--------|-------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0     | 0.0    | 0.00  | 0.00    | 0.0    |                               |
| 2   | 4144.0  | 0.00  | 0.00   | 4144.0  | 0.0     | 0.0    | 0.00  | 0.00    | 0.0    |                               |
| 3   | 4444.0  | 6.00  | 300.00 | 4443.5  | 7.8     | -13.6  | 2.00  | 300.00  | -7.1   |                               |
| 4   | 7416.8  | 6.00  | 300.00 | 7400.0  | 163.2   | -282.7 | 0.00  | 0.00    | -148.3 |                               |
| 5   | 7716.8  | 0.00  | 0.00   | 7699.5  | 171.1   | -296.3 | 2.00  | 180.00  | -155.5 |                               |
| 6   | 12162.9 | 0.00  | 0.00   | 12145.5 | 171.1   | -296.3 | 0.00  | 0.00    | -155.5 |                               |
| 7   | 12910.1 | 89.66 | 179.48 | 12623.0 | -303.6  | -292.0 | 12.00 | 179.48  | 318.3  | TGT 1 (Condor 32 State #707H) |
| 8   | 13593.0 | 89.66 | 179.48 | 12627.0 | -986.5  | -285.9 | 0.00  | 0.00    | 1000.0 |                               |
| 9   | 13593.3 | 89.66 | 179.48 | 12627.0 | -986.8  | -285.9 | 2.00  | -136.40 | 1000.3 | TGT 2 (Condor 32 State #707H) |
| 10  | 14594.9 | 89.66 | 179.48 | 12633.0 | -1988.3 | -276.8 | 0.00  | 0.00    | 2000.0 |                               |
| 11  | 14597.8 | 89.66 | 179.48 | 12633.0 | -1991.2 | -276.7 | 2.00  | 180.00  | 2002.8 | TGT 3 (Condor 32 State #707H) |
| 12  | 15596.8 | 89.66 | 179.48 | 12640.0 | -2990.1 | -267.7 | 0.00  | 0.00    | 3000.0 |                               |
| 13  | 15599.6 | 89.66 | 179.48 | 12640.0 | -2993.0 | -267.7 | 2.00  | 0.00    | 3002.8 | TGT 4 (Condor 32 State #707H) |
| 14  | 16598.7 | 89.66 | 179.48 | 12646.0 | -3992.0 | -258.6 | 0.00  | 0.00    | 4000.0 |                               |
| 15  | 16602.1 | 89.59 | 179.48 | 12646.0 | -3995.4 | -258.6 | 2.00  | 180.00  | 4003.5 |                               |
| 16  | 17434.8 | 89.59 | 179.48 | 12652.0 | -4828.0 | -251.0 | 0.00  | 0.00    | 4834.5 | PBHL (Condor 32 State #707H)  |

#### CASING DETAILS

No casing data is available

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

| Name                          | TVD     | +N/S    | +E/W   | Northing  | Easting   |
|-------------------------------|---------|---------|--------|-----------|-----------|
| KOP (Condor 32 State #707H)   | 12145.5 | 171.1   | -296.3 | 398900.87 | 803178.70 |
| FTP (Condor 32 State #707H)   | 12623.0 | -112.0  | -284.0 | 398717.00 | 803181.00 |
| TGT 1 (Condor 32 State #707H) | 12627.0 | -986.5  | -285.9 | 397842.50 | 803189.13 |
| TGT 2 (Condor 32 State #707H) | 12633.0 | -1988.3 | -276.8 | 396840.70 | 803198.23 |
| TGT 3 (Condor 32 State #707H) | 12640.0 | -2990.1 | -267.7 | 395838.90 | 803207.32 |
| TGT 4 (Condor 32 State #707H) | 12646.0 | -3992.0 | -258.6 | 394837.00 | 803216.41 |
| PBHL (Condor 32 State #707H)  | 12652.0 | -4828.0 | -251.0 | 394001.00 | 803224.00 |



Lea County, NM (NAD 83 NME)  
Condor 32 State #707H  
HP 620  
Plan #2  
Date: 10/17/2017  
Author: [Name]