

**HOBBS OCD**

**OCT 31 2018**

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**EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Ares 4 State**

**#703H**

**OH**

**Design: OH**

**Midland PVA**

**17 September, 2018**



Midland PVA

|                                                                                                                                                                                       |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|--|
| <b>Company:</b> EOG Resources - Midland<br><b>Project:</b> Lea County, NM (NAD 83 NME)<br><b>Site:</b> Area 4 State<br><b>Well:</b> #703H<br><b>Wellbore:</b> OH<br><b>Design:</b> OH |                                | <b>Local Co-ordinate Reference:</b><br><b>TVD Reference:</b><br><b>MD Reference:</b><br><b>North Reference:</b><br><b>Survey Calculation Method:</b><br><b>Database:</b> |                      | <b>Well #703H</b><br>KB = 25' @ 3611.0usft<br>KB = 25' @ 3611.0usft<br>Grid<br>Minimum Curvature<br>EDM 5000.14 |  |
| <b>Project</b> Lea County, NM (NAD 83 NME)                                                                                                                                            |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Map System:</b> US State Plane 1983<br><b>Geo Datum:</b> North American Datum 1983<br><b>Map Zone:</b> New Mexico Eastern Zone                                                     |                                | <b>System Datum:</b> Mean Sea Level                                                                                                                                      |                      |                                                                                                                 |  |
| <b>Site</b> Area 4 State                                                                                                                                                              |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Site Position:</b><br><b>From:</b> Map<br><b>Position Uncertainty:</b> 0.0 usft                                                                                                    |                                | <b>Northing:</b> 451,993.00 usft<br><b>Easting:</b> 777,413.00 usft<br><b>Slot Radius:</b> 13-3/16 "                                                                     |                      | <b>Latitude:</b> 32° 14' 25.072 N<br><b>Longitude:</b> 103° 34' 11.215 W<br><b>Grid Convergence:</b> 0.41 °     |  |
| <b>Well</b> #703H                                                                                                                                                                     |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Well Position</b> +N/-S 0.0 usft<br>+E/-W 0.0 usft<br><b>Position Uncertainty</b> 0.0 usft                                                                                         |                                | <b>Northing:</b> 452,642.00 usft<br><b>Easting:</b> 776,589.00 usft<br><b>Wellhead Elevation:</b> usft                                                                   |                      | <b>Latitude:</b> 32° 14' 31.551 N<br><b>Longitude:</b> 103° 34' 20.755 W<br><b>Ground Level:</b> 3,586.0 usft   |  |
| <b>Wellbore</b> OH                                                                                                                                                                    |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Magnetics</b>                                                                                                                                                                      |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Model Name</b>                                                                                                                                                                     | <b>Sample Date</b>             | <b>Declination (°)</b>                                                                                                                                                   | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b>                                                                                      |  |
| IGRF2015                                                                                                                                                                              | 5/19/2017                      | 6.96                                                                                                                                                                     | 60.08                | 47,955.83001980                                                                                                 |  |
| <b>Design</b> OH                                                                                                                                                                      |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Audit Notes:</b>                                                                                                                                                                   |                                |                                                                                                                                                                          |                      |                                                                                                                 |  |
| <b>Version:</b> 1.0                                                                                                                                                                   | <b>Phase:</b> ACTUAL           | <b>Tie On Depth:</b> 0.0                                                                                                                                                 |                      |                                                                                                                 |  |
| <b>Vertical Section:</b>                                                                                                                                                              | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>                                                                                                                                                      | <b>+E/-W (usft)</b>  | <b>Direction (°)</b>                                                                                            |  |
|                                                                                                                                                                                       | 0.0                            | 0.0                                                                                                                                                                      | 0.0                  | 5.08                                                                                                            |  |



Midland PVA

|                  |                             |                                     |                       |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| <b>Company:</b>  | EOG Resources - Midland     | <b>Local Co-ordinate Reference:</b> | Well #703H            |
| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3611.0usft |
| <b>Site:</b>     | Ares 4 State                | <b>MD Reference:</b>                | KB = 25' @ 3611.0usft |
| <b>Well:</b>     | #703H                       | <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 Program |           | Date                       | 9/17/2018 |                     |  |
|----------------|-----------|----------------------------|-----------|---------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore)          | Tool Name | Description         |  |
| 189.0          | 1,285.0   | Catel 41 8' KB +17 (OH)    | MWD       | OWSG MWD - Standard |  |
| 1,441.0        | 17,506.0  | Total Directional MWD (OH) | MWD       | OWSG MWD - Standard |  |

| MD (usft) | Inc (") | Azi (azimuth) (") | 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                  |
| 189.0     | 0.11    | 87.71             | 189.0      | 0.0        | 0.2        | 0.06             | 0.06              | 0.00             | 0.0                 | 0.0                  |
| 345.0     | 0.40    | 261.83            | 345.0      | -0.1       | -0.2       | 0.33             | 0.19              | 111.62           | 0.0                 | 0.0                  |
| 535.0     | 0.22    | 174.64            | 535.0      | -0.5       | -0.8       | 0.24             | -0.09             | -45.89           | 0.0                 | 0.0                  |
| 661.0     | 0.33    | 95.71             | 661.0      | -0.8       | -0.4       | 0.29             | 0.09              | -62.64           | 0.0                 | 0.0                  |
| 822.0     | 0.46    | 133.15            | 822.0      | -1.3       | 0.5        | 0.18             | 0.08              | 23.25            | 0.0                 | 0.0                  |
| 916.0     | 0.51    | 182.64            | 916.0      | -2.0       | 0.7        | 0.43             | 0.05              | 52.65            | 0.0                 | 0.0                  |
| 1,074.0   | 0.35    | 112.94            | 1,074.0    | -2.9       | 1.2        | 0.32             | -0.10             | -44.11           | 0.0                 | 0.0                  |
| 1,140.0   | 0.13    | 270.09            | 1,140.0    | -2.9       | 1.3        | 0.72             | -0.33             | 238.11           | 0.0                 | 0.0                  |
| 1,285.0   | 0.40    | 103.89            | 1,285.0    | -3.1       | 1.6        | 0.36             | 0.19              | -114.62          | 0.0                 | 0.0                  |
| 1,441.0   | 2.60    | 155.10            | 1,440.9    | -6.4       | 3.6        | 1.52             | 1.41              | 32.83            | -2.7                | -0.4                 |
| 1,534.0   | 7.10    | 154.50            | 1,533.6    | -13.5      | 7.0        | 4.84             | 4.84              | -0.65            | -6.8                | -0.8                 |
| 1,629.0   | 9.80    | 155.00            | 1,627.5    | -26.1      | 12.9       | 2.84             | 2.84              | 0.53             | -13.9               | -0.8                 |
| 1,724.0   | 9.40    | 154.20            | 1,721.2    | -40.4      | 19.7       | 0.44             | -0.42             | -0.84            | -19.7               | -1.0                 |
| 1,818.0   | 9.10    | 152.80            | 1,814.0    | -54.0      | 26.5       | 0.40             | -0.32             | -1.49            | -21.8               | -1.1                 |
| 1,913.0   | 9.20    | 153.20            | 1,907.8    | -67.4      | 33.3       | 0.12             | 0.11              | 0.42             | -20.7               | -0.1                 |
| 2,007.0   | 9.20    | 152.50            | 2,000.6    | -80.8      | 40.2       | 0.12             | 0.00              | -0.74            | -19.0               | 0.7                  |
| 2,102.0   | 9.30    | 152.30            | 2,094.3    | -94.3      | 47.2       | 0.11             | 0.11              | -0.21            | -17.3               | 1.7                  |
| 2,197.0   | 9.40    | 151.60            | 2,188.1    | -107.9     | 54.5       | 0.16             | 0.11              | -0.74            | -15.8               | 2.7                  |
| 2,291.0   | 9.30    | 151.90            | 2,280.8    | -121.4     | 61.7       | 0.12             | -0.11             | 0.32             | -14.3               | 4.1                  |
| 2,386.0   | 9.40    | 151.90            | 2,374.5    | -135.0     | 69.0       | 0.11             | 0.11              | 0.00             | -12.8               | 5.3                  |



Midland PVA

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| <b>Project:</b>  | Lea County, NM (NAD 83 NME) | <b>TVD Reference:</b>               | KB = 25' @ 3611.0usft |
| <b>Site:</b>     | Ares 4 State                | <b>MD Reference:</b>                | KB = 25' @ 3611.0usft |
| <b>Well:</b>     | #703H                       | <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 (azimuth)<br>(°) | TVD<br>(usft) | NS<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 2,480.0      | 9.40       | 152.30               | 2,467.3       | -148.6       | 76.2         | 0.07                | 0.00                 | 0.43                | -11.3                  | 6.6                     |  |
| 2,575.0      | 9.30       | 152.20               | 2,561.0       | -162.2       | 83.4         | 0.11                | -0.11                | -0.11               | -9.8                   | 7.7                     |  |
| 2,669.0      | 9.50       | 151.60               | 2,653.8       | -175.8       | 90.6         | 0.24                | 0.21                 | -0.64               | -8.5                   | 8.8                     |  |
| 2,763.0      | 9.60       | 152.30               | 2,746.5       | -189.5       | 97.9         | 0.16                | 0.11                 | 0.74                | -7.2                   | 10.1                    |  |
| 2,858.0      | 9.60       | 151.70               | 2,840.1       | -203.5       | 105.4        | 0.11                | 0.00                 | -0.63               | -6.3                   | 11.3                    |  |
| 2,952.0      | 9.60       | 151.50               | 2,932.8       | -217.3       | 112.8        | 0.04                | 0.00                 | -0.21               | -5.2                   | 12.6                    |  |
| 3,046.0      | 9.40       | 150.70               | 3,025.5       | -230.9       | 120.3        | 0.25                | -0.21                | -0.85               | -4.2                   | 14.0                    |  |
| 3,140.0      | 9.50       | 149.50               | 3,118.2       | -244.3       | 128.0        | 0.24                | 0.11                 | -1.28               | -3.2                   | 15.6                    |  |
| 3,234.0      | 9.40       | 148.10               | 3,211.0       | -257.5       | 136.0        | 0.27                | -0.11                | -1.49               | -2.4                   | 17.7                    |  |
| 3,329.0      | 9.30       | 147.60               | 3,304.7       | -270.6       | 144.2        | 0.14                | -0.11                | -0.53               | -1.2                   | 20.1                    |  |
| 3,424.0      | 9.30       | 147.50               | 3,398.5       | -283.5       | 152.5        | 0.02                | 0.00                 | -0.11               | 0.2                    | 22.6                    |  |
| 3,518.0      | 9.20       | 146.40               | 3,491.2       | -296.2       | 160.7        | 0.22                | -0.11                | -1.17               | 1.3                    | 25.3                    |  |
| 3,613.0      | 9.40       | 146.80               | 3,585.0       | -309.0       | 169.2        | 0.22                | 0.21                 | 0.42                | 2.9                    | 28.1                    |  |
| 3,707.0      | 9.60       | 153.60               | 3,677.7       | -322.4       | 176.8        | 1.21                | 0.21                 | 7.23                | 7.4                    | 29.2                    |  |
| 3,802.0      | 9.30       | 155.50               | 3,771.4       | -336.5       | 183.5        | 0.46                | -0.32                | 2.00                | 9.8                    | 29.4                    |  |
| 3,896.0      | 9.20       | 155.70               | 3,864.2       | -350.3       | 189.8        | 0.11                | -0.11                | 0.21                | 11.6                   | 29.5                    |  |
| 3,990.0      | 9.60       | 155.80               | 3,956.9       | -364.3       | 196.1        | 0.43                | 0.43                 | 0.11                | 13.1                   | 29.6                    |  |
| 4,085.0      | 9.60       | 154.90               | 4,050.6       | -378.7       | 202.7        | 0.16                | 0.00                 | -0.95               | 13.7                   | 30.0                    |  |
| 4,179.0      | 9.20       | 153.90               | 4,143.3       | -392.5       | 209.3        | 0.46                | -0.43                | -1.06               | 14.7                   | 30.7                    |  |
| 4,273.0      | 9.10       | 153.00               | 4,236.1       | -405.9       | 216.0        | 0.19                | -0.11                | -0.96               | 16.0                   | 31.8                    |  |
| 4,368.0      | 8.90       | 150.80               | 4,330.0       | -419.0       | 223.0        | 0.42                | -0.21                | -2.32               | 16.9                   | 33.6                    |  |
| 4,462.0      | 9.30       | 147.60               | 4,422.8       | -431.8       | 230.6        | 0.69                | 0.43                 | -3.40               | 16.8                   | 36.6                    |  |
| 4,557.0      | 9.50       | 145.80               | 4,516.5       | -444.7       | 239.1        | 0.37                | 0.21                 | -1.89               | 16.8                   | 39.9                    |  |
| 4,651.0      | 9.60       | 143.80               | 4,609.2       | -457.5       | 248.1        | 0.37                | 0.11                 | -2.13               | 16.3                   | 43.7                    |  |
| 4,745.0      | 10.00      | 142.40               | 4,701.8       | -470.3       | 257.7        | 0.50                | 0.43                 | -1.49               | 15.8                   | 47.9                    |  |
| 4,840.0      | 10.60      | 141.20               | 4,795.3       | -483.6       | 268.3        | 0.67                | 0.63                 | -1.26               | 14.0                   | 52.4                    |  |
| 4,935.0      | 11.10      | 140.60               | 4,888.6       | -497.5       | 279.5        | 0.54                | 0.53                 | -0.63               | 12.0                   | 56.9                    |  |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #703H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3611.0usft |
| Site:     | Area 4 State                | MD Reference:                | KB = 25' @ 3611.0usft |
| Well:     | #703H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |               |                     |                      |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 5,038.0      | 10.10      | 138.80               | 4,989.9       | -511.9        | 291.8         | 1.02                | -0.97                | -1.75               | 8.8                    | 62.4                    |  |
| 5,203.0      | 9.40       | 134.00               | 5,152.5       | -532.2        | 311.0         | 0.65                | -0.42                | -2.91               | 3.0                    | 72.8                    |  |
| 5,298.0      | 9.90       | 151.20               | 5,246.1       | -544.7        | 320.5         | 3.07                | 0.53                 | 18.11               | 25.4                   | 72.5                    |  |
| 5,393.0      | 10.90      | 161.10               | 5,339.6       | -560.4        | 327.4         | 2.15                | 1.05                 | 10.42               | 37.2                   | 67.1                    |  |
| 5,487.0      | 11.00      | 162.90               | 5,431.9       | -577.4        | 332.9         | 0.38                | 0.11                 | 1.91                | 38.1                   | 64.2                    |  |
| 5,582.0      | 10.70      | 163.60               | 5,525.2       | -594.5        | 338.0         | 0.34                | -0.32                | 0.74                | 37.8                   | 61.6                    |  |
| 5,677.0      | 10.80      | 161.80               | 5,618.5       | -611.4        | 343.3         | 0.37                | 0.11                 | -1.89               | 35.0                   | 60.8                    |  |
| 5,772.0      | 10.50      | 161.30               | 5,711.9       | -628.1        | 348.9         | 0.33                | -0.32                | -0.53               | 33.8                   | 59.5                    |  |
| 5,867.0      | 10.60      | 159.80               | 5,805.3       | -644.5        | 354.6         | 0.31                | 0.11                 | -1.58               | 31.8                   | 59.0                    |  |
| 5,962.0      | 11.10      | 158.10               | 5,898.6       | -661.1        | 361.1         | 0.62                | 0.53                 | -1.79               | 29.1                   | 59.1                    |  |
| 6,057.0      | 10.60      | 156.90               | 5,991.9       | -677.7        | 367.9         | 0.58                | -0.53                | -1.26               | 26.9                   | 59.2                    |  |
| 6,152.0      | 9.80       | 158.10               | 6,085.4       | -693.2        | 374.4         | 0.87                | -0.84                | 1.26                | 28.3                   | 58.3                    |  |
| 6,247.0      | 9.40       | 157.40               | 6,179.0       | -707.9        | 380.4         | 0.44                | -0.42                | -0.74               | 28.7                   | 58.1                    |  |
| 6,342.0      | 8.80       | 158.30               | 6,272.8       | -721.8        | 386.0         | 0.65                | -0.63                | 0.95                | 31.6                   | 57.1                    |  |
| 6,436.0      | 8.40       | 157.30               | 6,365.8       | -734.8        | 391.3         | 0.45                | -0.43                | -1.06               | 33.3                   | 57.2                    |  |
| 6,531.0      | 8.30       | 156.40               | 6,459.8       | -747.5        | 396.8         | 0.17                | -0.11                | -0.95               | 35.6                   | 57.5                    |  |
| 6,626.0      | 8.50       | 156.00               | 6,553.8       | -760.2        | 402.4         | 0.22                | 0.21                 | -0.42               | 38.4                   | 57.7                    |  |
| 6,720.0      | 8.40       | 157.10               | 6,646.7       | -772.9        | 407.9         | 0.20                | -0.11                | 1.17                | 42.5                   | 56.8                    |  |
| 6,815.0      | 7.90       | 156.50               | 6,740.8       | -785.2        | 413.2         | 0.53                | -0.53                | -0.63               | 45.4                   | 57.1                    |  |
| 6,909.0      | 6.60       | 162.00               | 6,834.0       | -796.3        | 417.4         | 1.57                | -1.38                | 5.85                | 55.5                   | 51.4                    |  |
| 7,003.0      | 6.50       | 176.50               | 6,927.4       | -806.7        | 419.4         | 1.76                | -0.11                | 15.43               | 71.8                   | 31.6                    |  |
| 7,097.0      | 6.40       | 190.90               | 7,020.8       | -817.2        | 418.7         | 1.72                | -0.11                | 15.32               | 80.6                   | 4.8                     |  |
| 7,192.0      | 6.20       | 193.80               | 7,115.3       | -827.4        | 416.5         | 0.40                | -0.21                | 3.05                | 81.6                   | -7.9                    |  |
| 7,286.0      | 6.30       | 193.80               | 7,208.7       | -837.3        | 414.1         | 0.11                | 0.11                 | 0.00                | 80.0                   | -14.7                   |  |
| 7,381.0      | 6.10       | 193.50               | 7,303.1       | -847.3        | 411.6         | 0.21                | -0.21                | -0.32               | 75.9                   | -19.1                   |  |
| 7,475.0      | 6.10       | 195.10               | 7,396.6       | -857.0        | 409.2         | 0.18                | 0.00                 | 1.70                | 68.9                   | -24.1                   |  |
| 7,570.0      | 6.00       | 194.00               | 7,491.1       | -866.7        | 406.7         | 0.16                | -0.11                | -1.16               | 60.4                   | -23.8                   |  |



Midland PVA

| Company:     | EOG Resources - Midland     |                      |               |               |               | Local Co-ordinate Reference: |                     | Well #703H            |                        |                         |
|--------------|-----------------------------|----------------------|---------------|---------------|---------------|------------------------------|---------------------|-----------------------|------------------------|-------------------------|
| Project:     | Lea County, NM (NAD 83 NME) |                      |               |               |               | TVD Reference:               |                     | KB = 25' @ 3611.0usft |                        |                         |
| Site:        | Area 4 State                |                      |               |               |               | MD Reference:                |                     | KB = 25' @ 3611.0usft |                        |                         |
| Well:        | #703H                       |                      |               |               |               | North Reference:             |                     | Grid                  |                        |                         |
| Wellbore:    | OH                          |                      |               |               |               | Survey Calculation Method:   |                     | Minimum Curvature     |                        |                         |
| Design:      | OH                          |                      |               |               |               | Database:                    |                     | EDM 5000.14           |                        |                         |
| Survey       |                             |                      |               |               |               |                              |                     |                       |                        |                         |
| MD<br>(usft) | Inc<br>(°)                  | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLog<br>("/100usft)          | Buid<br>("/100usft) | Turn<br>("/100usft)   | High to Plan<br>(usft) | Right to Plan<br>(usft) |
| 7,664.0      | 6.10                        | 194.10               | 7,564.6       | -876.3        | 404.3         | 0.11                         | 0.11                | 0.11                  | 50.4                   | -23.9                   |
| 7,758.0      | 5.50                        | 194.90               | 7,678.1       | -885.5        | 401.9         | 0.64                         | -0.64               | 0.85                  | 40.6                   | -24.5                   |
| 7,853.0      | 4.00                        | 166.80               | 7,772.8       | -893.1        | 401.5         | 2.87                         | -1.58               | -29.58                | 40.0                   | -4.5                    |
| 7,947.0      | 3.90                        | 158.10               | 7,866.5       | -899.3        | 403.4         | 0.65                         | -0.11               | -9.26                 | 33.8                   | 1.1                     |
| 8,041.0      | 4.00                        | 156.20               | 7,960.3       | -905.2        | 405.9         | 0.18                         | 0.11                | -2.02                 | 27.3                   | 2.1                     |
| 8,135.0      | 3.80                        | 158.00               | 8,054.1       | -911.1        | 408.4         | 0.25                         | -0.21               | 1.91                  | 20.9                   | 1.3                     |
| 8,229.0      | 3.80                        | 153.20               | 8,147.9       | -916.8        | 411.0         | 0.34                         | 0.00                | -5.11                 | 14.5                   | 2.8                     |
| 8,324.0      | 3.80                        | 151.60               | 8,242.7       | -922.4        | 413.9         | 0.11                         | 0.00                | -1.68                 | 8.1                    | 3.2                     |
| 8,418.0      | 3.70                        | 154.00               | 8,336.5       | -927.8        | 416.7         | 0.20                         | -0.11               | 2.55                  | 2.1                    | 2.9                     |
| 8,513.0      | 1.40                        | 162.80               | 8,431.4       | -931.7        | 418.4         | 2.45                         | -2.42               | 9.26                  | -1.7                   | 3.0                     |
| 8,607.0      | 1.10                        | 171.10               | 8,525.4       | -933.7        | 418.9         | 0.37                         | -0.32               | 8.83                  | -3.2                   | 3.4                     |
| 8,701.0      | 1.20                        | 162.10               | 8,619.3       | -935.5        | 419.3         | 0.22                         | 0.11                | -9.57                 | -5.6                   | 2.7                     |
| 8,795.0      | 0.30                        | 264.30               | 8,713.3       | -936.5        | 419.4         | 1.38                         | -0.96               | 108.72                | 3.8                    | 5.8                     |
| 8,890.0      | 0.40                        | 275.50               | 8,808.3       | -936.5        | 418.8         | 0.13                         | 0.11                | 11.79                 | 4.3                    | 5.1                     |
| 8,984.0      | 0.50                        | 250.90               | 8,902.3       | -936.6        | 418.1         | 0.23                         | 0.11                | -26.17                | 1.1                    | 6.3                     |
| 9,078.0      | 0.70                        | 247.00               | 8,996.3       | -936.9        | 417.2         | 0.22                         | 0.21                | -4.15                 | -0.3                   | 6.3                     |
| 9,172.0      | 0.60                        | 224.50               | 9,090.3       | -937.5        | 416.3         | 0.29                         | -0.11               | -23.94                | -3.7                   | 5.5                     |
| 9,267.0      | 0.50                        | 248.50               | 9,185.3       | -938.0        | 415.6         | 0.26                         | -0.11               | 25.26                 | -2.0                   | 6.7                     |
| 9,361.0      | 0.40                        | 265.60               | 9,279.3       | -938.2        | 414.9         | 0.18                         | -0.11               | 18.19                 | -0.7                   | 7.1                     |
| 9,456.0      | 0.50                        | 240.00               | 9,374.3       | -938.4        | 414.2         | 0.23                         | 0.11                | -26.95                | -4.4                   | 6.0                     |
| 9,550.0      | 0.90                        | 213.80               | 9,468.3       | -939.2        | 413.4         | 0.53                         | 0.43                | -27.87                | -7.7                   | 3.2                     |
| 9,645.0      | 1.00                        | 204.80               | 9,563.3       | -940.6        | 412.6         | 0.19                         | 0.11                | -9.47                 | -9.7                   | 1.9                     |
| 9,739.0      | 1.00                        | 207.90               | 9,657.3       | -942.1        | 411.9         | 0.06                         | 0.00                | 3.30                  | -11.2                  | 2.4                     |
| 9,834.0      | 1.20                        | 208.60               | 9,752.3       | -943.7        | 411.0         | 0.21                         | 0.21                | 0.74                  | -13.0                  | 2.6                     |
| 9,928.0      | 1.20                        | 284.50               | 9,846.2       | -944.3        | 409.6         | 1.57                         | 0.00                | 80.74                 | -1.9                   | 14.2                    |
| 10,023.0     | 1.20                        | 304.80               | 9,941.2       | -943.5        | 407.8         | 0.45                         | 0.00                | 21.37                 | 1.2                    | 14.3                    |
| 10,118.0     | 1.40                        | 293.60               | 10,036.2      | -942.4        | 406.0         | 0.34                         | 0.21                | -11.79                | -3.7                   | 14.1                    |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #703H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3611.0usft |
| Site:     | Ares 4 State                | MD Reference:                | KB = 25' @ 3611.0usft |
| Well:     | #703H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey                                               |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
|------------------------------------------------------|------------|----------------------|---------------|---------------|--------------|---------------------|----------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft)                                         | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(*/100usft) | Build<br>(*/100usft) | Turn<br>(*/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 10,213.0                                             | 1.60       | 288.50               | 10,131.2      | -941.6        | 403.6        | 0.25                | 0.21                 | -5.37               | -7.4                   | 13.6                    |  |
| 10,307.0                                             | 0.20       | 57.00                | 10,225.2      | -941.0        | 402.5        | 1.84                | -1.49                | 136.70              | 15.9                   | -1.6                    |  |
| 10,402.0                                             | 0.20       | 83.00                | 10,320.2      | -940.9        | 402.8        | 0.09                | 0.00                 | 27.37               | 13.3                   | -8.4                    |  |
| 10,496.0                                             | 0.10       | 264.50               | 10,414.2      | -940.9        | 402.9        | 0.32                | -0.11                | -189.89             | -13.0                  | 8.7                     |  |
| 10,590.0                                             | 0.30       | 292.90               | 10,508.2      | -940.8        | 402.6        | 0.23                | 0.21                 | 30.21               | -7.6                   | 13.9                    |  |
| 10,684.0                                             | 0.20       | 8.40                 | 10,602.2      | -940.6        | 402.4        | 0.34                | -0.11                | 80.32               | 11.3                   | 11.1                    |  |
| 10,778.0                                             | 0.90       | 350.10               | 10,696.1      | -939.7        | 402.3        | 0.76                | 0.74                 | -19.47              | 6.4                    | 14.0                    |  |
| 10,872.0                                             | 0.80       | 9.30                 | 10,790.1      | -938.3        | 402.3        | 0.32                | -0.11                | 20.43               | 9.3                    | 11.4                    |  |
| 10,967.0                                             | 0.70       | 52.10                | 10,885.1      | -937.3        | 402.8        | 0.58                | -0.11                | 45.05               | 13.5                   | 2.5                     |  |
| 11,061.0                                             | 0.60       | 76.30                | 10,979.1      | -936.8        | 403.8        | 0.31                | -0.11                | 25.74               | 12.3                   | -3.0                    |  |
| 11,155.0                                             | 0.50       | 112.60               | 11,073.1      | -936.9        | 404.6        | 0.38                | -0.11                | 38.62               | 7.3                    | -9.4                    |  |
| 11,249.0                                             | 0.80       | 140.20               | 11,167.1      | -937.5        | 405.4        | 0.45                | 0.32                 | 29.36               | 1.1                    | -11.5                   |  |
| 11,343.0                                             | 1.00       | 150.20               | 11,261.1      | -938.8        | 406.3        | 0.27                | 0.21                 | 10.64               | -2.4                   | -11.4                   |  |
| 11,437.0                                             | 1.30       | 149.70               | 11,355.1      | -940.4        | 407.2        | 0.32                | 0.32                 | -0.53               | -4.2                   | -11.5                   |  |
| 11,531.0                                             | 1.50       | 161.10               | 11,449.1      | -942.5        | 408.1        | 0.36                | 0.21                 | 12.13               | -8.6                   | -10.2                   |  |
| 11,625.0                                             | 1.40       | 163.50               | 11,543.0      | -944.7        | 409.1        | 0.23                | -0.11                | -8.09               | -9.6                   | -11.4                   |  |
| 11,719.0                                             | 1.90       | 144.30               | 11,637.0      | -947.0        | 410.5        | 0.60                | 0.53                 | -9.79               | -10.3                  | -13.0                   |  |
| 11,813.0                                             | 1.80       | 157.80               | 11,730.9      | -949.6        | 411.9        | 0.47                | -0.11                | 14.36               | -16.1                  | -9.9                    |  |
| 11,837.0                                             | 1.70       | 156.10               | 11,754.9      | -950.3        | 412.2        | 0.47                | -0.42                | -7.08               | -16.5                  | -10.3                   |  |
| 11,889.0                                             | 1.70       | 156.10               | 11,806.9      | -951.7        | 412.9        | 0.00                | 0.00                 | 0.00                | -18.0                  | -10.3                   |  |
| 11,942.0                                             | 1.60       | 161.80               | 11,859.9      | -953.1        | 413.4        | 0.36                | -0.19                | 10.75               | -20.5                  | -8.4                    |  |
| 12,036.0                                             | 0.20       | 140.10               | 11,953.9      | -954.5        | 413.9        | 1.51                | -1.49                | -23.09              | -17.3                  | -15.9                   |  |
| 12,125.0                                             | 0.47       | 32.12                | 12,042.9      | -954.3        | 414.2        | 0.63                | 0.30                 | -121.32             | 20.1                   | -11.7                   |  |
| KOP 12125.0' MD; 12042.9' TVD; -954.3'; 414.2'; 0.47 |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
| 12,130.0                                             | 0.50       | 30.90                | 12,047.9      | -954.2        | 414.2        | 0.63                | 0.60                 | -24.50              | 20.4                   | -11.3                   |  |
| 12,224.0                                             | 14.60      | 13.10                | 12,140.8      | -942.3        | 417.1        | 15.03               | 15.00                | -18.94              | 19.8                   | -6.8                    |  |
| 12,271.0                                             | 24.10      | 14.90                | 12,185.1      | -927.2        | 421.0        | 20.25               | 20.21                | 3.83                | 14.9                   | -10.1                   |  |



Midland PVA

|                                             |  |                                                     |  |
|---------------------------------------------|--|-----------------------------------------------------|--|
| <b>Company:</b> EOG Resources - Midland     |  | <b>Local Co-ordinate Reference:</b> Well #703H      |  |
| <b>Project:</b> Lea County, NM (NAD 83 NME) |  | <b>TVD Reference:</b> KB = 25' @ 3611.0usft         |  |
| <b>Site:</b> Area 4 State                   |  | <b>MD Reference:</b> KB = 25' @ 3611.0usft          |  |
| <b>Well:</b> #703H                          |  | <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>(°) | Asl (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 12,318.0                                                       | 33.50      | 14.10                | 12,226.3      | -905.3        | 426.6        | 20.02               | 20.00                | -1.70               | 7.0                    | -13.7                   |  |
| 12,360.9                                                       | 37.70      | 12.53                | 12,261.1      | -881.0        | 432.3        | 10.01               | 9.79                 | -3.65               | -0.9                   | -17.9                   |  |
| FTP Crossing 12360.9' MD; 12261.1' TVD; -881.0'; 432.3'; 37.70 |            |                      |               |               |              |                     |                      |                     |                        |                         |  |
| 12,365.0                                                       | 38.10      | 12.40                | 12,264.4      | -878.6        | 432.9        | 10.01               | 9.81                 | -3.27               | -1.7                   | -18.3                   |  |
| 12,413.0                                                       | 42.60      | 0.00                 | 12,301.0      | -847.8        | 436.1        | 19.14               | 9.37                 | -25.83              | -6.5                   | -21.7                   |  |
| 12,460.0                                                       | 46.60      | 358.60               | 12,334.5      | -814.8        | 435.6        | 8.76                | 8.51                 | -2.98               | -13.2                  | -21.8                   |  |
| 12,507.0                                                       | 49.70      | 358.80               | 12,365.8      | -779.8        | 434.9        | 6.60                | 6.80                 | 0.43                | -18.6                  | -21.3                   |  |
| 12,554.0                                                       | 50.00      | 359.50               | 12,396.1      | -743.9        | 434.3        | 1.31                | 0.64                 | 1.49                | -20.7                  | -20.9                   |  |
| 12,601.0                                                       | 56.20      | 359.00               | 12,424.3      | -706.3        | 433.8        | 13.22               | 13.19                | -1.06               | -20.3                  | -20.8                   |  |
| 12,648.0                                                       | 61.10      | 356.30               | 12,448.8      | -666.2        | 432.2        | 11.52               | 10.43                | -5.74               | -19.3                  | -19.8                   |  |
| 12,695.0                                                       | 64.40      | 356.20               | 12,470.3      | -624.5        | 429.4        | 7.02                | 7.02                 | -0.21               | -17.3                  | -17.3                   |  |
| 12,742.0                                                       | 68.80      | 358.00               | 12,486.9      | -581.5        | 427.3        | 10.00               | 9.36                 | 3.83                | -13.9                  | -15.3                   |  |
| 12,789.0                                                       | 72.70      | 0.40                 | 12,504.4      | -537.1        | 426.6        | 9.60                | 8.30                 | 5.11                | -9.1                   | -14.9                   |  |
| 12,836.0                                                       | 80.30      | 0.90                 | 12,515.4      | -491.4        | 427.2        | 16.20               | 16.17                | 1.06                | -4.2                   | -15.8                   |  |
| 12,883.0                                                       | 87.70      | 359.70               | 12,520.3      | -444.7        | 427.4        | 15.95               | 15.74                | -2.55               | -0.7                   | -16.4                   |  |
| 12,977.0                                                       | 89.90      | 359.10               | 12,522.3      | -350.8        | 426.4        | 2.43                | 2.34                 | -0.64               | 1.4                    | -16.2                   |  |
| 13,071.0                                                       | 89.20      | 358.20               | 12,523.0      | -256.8        | 424.2        | 1.21                | -0.74                | -0.96               | 2.3                    | -14.7                   |  |
| 13,164.0                                                       | 90.00      | 358.70               | 12,523.7      | -163.8        | 421.7        | 1.01                | 0.86                 | 0.54                | 3.1                    | -13.0                   |  |
| 13,258.0                                                       | 90.10      | 357.50               | 12,523.6      | -69.9         | 418.6        | 1.28                | 0.11                 | -1.28               | 3.1                    | -10.6                   |  |
| 13,352.0                                                       | 91.60      | 357.00               | 12,522.2      | 24.0          | 414.1        | 1.68                | 1.60                 | -0.53               | 1.9                    | -6.9                    |  |
| 13,454.0                                                       | 90.40      | 358.00               | 12,520.4      | 125.9         | 409.6        | 1.53                | -1.18                | 0.98                | 0.3                    | -3.3                    |  |
| 13,548.0                                                       | 89.60      | 359.00               | 12,520.4      | 219.8         | 407.2        | 1.36                | -0.85                | 1.06                | 0.4                    | -1.6                    |  |
| 13,641.0                                                       | 88.80      | 359.60               | 12,521.7      | 312.8         | 406.0        | 1.08                | -0.86                | 0.65                | 1.9                    | -1.2                    |  |
| 13,735.0                                                       | 89.30      | 359.60               | 12,523.3      | 406.8         | 405.4        | 0.53                | 0.53                 | 0.00                | 3.6                    | -1.3                    |  |
| 13,830.0                                                       | 89.70      | 359.60               | 12,524.1      | 501.8         | 404.7        | 0.42                | 0.42                 | 0.00                | 4.6                    | -1.4                    |  |
| 13,924.0                                                       | 91.00      | 359.50               | 12,523.5      | 595.8         | 404.0        | 1.39                | 1.38                 | -0.11               | 4.1                    | -1.5                    |  |
| 14,018.0                                                       | 90.10      | 359.00               | 12,522.6      | 689.8         | 402.7        | 1.10                | -0.96                | -0.53               | 3.4                    | -1.0                    |  |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #703H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3611.0usft |
| Site:     | Area 4 State                | MD Reference:                | KB = 25' @ 3611.0usft |
| Well:     | #703H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| Survey       |            |                      |               |               |              |                     |                     |                     |                        |                         |  |
|--------------|------------|----------------------|---------------|---------------|--------------|---------------------|---------------------|---------------------|------------------------|-------------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | EW<br>(usft) | DLeg<br>(°/100usft) | BuId<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |  |
| 14,112.0     | 89.00      | 359.20               | 12,523.4      | 783.8         | 401.3        | 1.19                | -1.17               | 0.21                | 4.3                    | -0.3                    |  |
| 14,205.0     | 86.90      | 358.60               | 12,526.7      | 876.7         | 399.5        | 2.35                | -2.26               | -0.65               | 7.7                    | 0.7                     |  |
| 14,299.0     | 89.40      | 358.80               | 12,529.7      | 970.6         | 397.3        | 2.67                | 2.66                | 0.21                | 10.9                   | 2.1                     |  |
| 14,393.0     | 96.00      | 359.60               | 12,525.3      | 1,064.4       | 396.0        | 7.07                | 7.02                | 0.85                | 6.6                    | 2.6                     |  |
| 14,486.0     | 93.10      | 358.10               | 12,517.9      | 1,157.1       | 394.2        | 3.51                | -3.12               | -1.61               | -0.6                   | 3.7                     |  |
| 14,580.0     | 90.70      | 357.80               | 12,514.8      | 1,251.0       | 390.8        | 2.57                | -2.55               | -0.32               | -3.5                   | 6.3                     |  |
| 14,674.0     | 91.60      | 357.70               | 12,512.9      | 1,344.9       | 387.1        | 0.96                | 0.96                | -0.11               | -5.3                   | 9.2                     |  |
| 14,768.0     | 92.30      | 354.50               | 12,509.7      | 1,438.6       | 380.7        | 3.48                | 0.74                | -3.40               | -8.3                   | 14.9                    |  |
| 14,862.0     | 90.20      | 357.40               | 12,507.7      | 1,532.3       | 374.1        | 3.81                | -2.23               | 3.09                | -10.0                  | 20.7                    |  |
| 14,956.0     | 95.10      | 358.30               | 12,503.3      | 1,626.1       | 370.6        | 5.30                | 5.21                | 0.96                | -13.8                  | 23.5                    |  |
| 15,050.0     | 92.80      | 356.10               | 12,496.8      | 1,719.8       | 366.0        | 3.38                | -2.45               | -2.34               | -19.8                  | 27.3                    |  |
| 15,144.0     | 90.20      | 358.70               | 12,494.4      | 1,813.6       | 361.7        | 3.91                | -2.77               | 2.77                | -21.8                  | 30.8                    |  |
| 15,238.0     | 90.50      | 0.40                 | 12,493.8      | 1,907.6       | 361.0        | 1.84                | 0.32                | 1.81                | -21.9                  | 30.8                    |  |
| 15,332.0     | 88.60      | 2.20                 | 12,494.5      | 2,001.6       | 363.1        | 2.78                | -2.02               | 1.91                | -20.6                  | 27.9                    |  |
| 15,427.0     | 90.50      | 2.80                 | 12,495.3      | 2,096.5       | 367.3        | 2.10                | 2.00                | 0.63                | -19.4                  | 22.9                    |  |
| 15,521.0     | 89.70      | 0.50                 | 12,495.1      | 2,190.5       | 370.0        | 2.59                | -0.85               | -2.45               | -19.1                  | 19.5                    |  |
| 15,615.0     | 91.60      | 0.80                 | 12,494.1      | 2,284.4       | 371.0        | 2.05                | 2.02                | 0.32                | -19.6                  | 17.6                    |  |
| 15,709.0     | 90.30      | 0.60                 | 12,492.5      | 2,378.4       | 372.2        | 1.40                | -1.38               | -0.21               | -20.7                  | 15.7                    |  |
| 15,803.0     | 93.10      | 0.50                 | 12,489.7      | 2,472.4       | 373.1        | 2.98                | 2.98                | -0.11               | -23.0                  | 14.0                    |  |
| 15,897.0     | 91.30      | 359.80               | 12,486.1      | 2,566.3       | 373.3        | 2.05                | -1.91               | -0.74               | -26.1                  | 13.0                    |  |
| 15,991.0     | 90.30      | 1.10                 | 12,484.8      | 2,660.3       | 374.1        | 1.74                | -1.06               | 1.38                | -26.9                  | 11.5                    |  |
| 16,086.0     | 90.40      | 2.50                 | 12,484.2      | 2,755.2       | 377.1        | 1.48                | 0.11                | 1.47                | -27.0                  | 7.7                     |  |
| 16,180.0     | 90.90      | 2.20                 | 12,483.2      | 2,849.1       | 380.9        | 0.62                | 0.53                | -0.32               | -27.5                  | 3.1                     |  |
| 16,274.0     | 90.40      | 2.60                 | 12,482.1      | 2,943.1       | 384.8        | 0.68                | -0.53               | 0.43                | -28.1                  | -1.6                    |  |
| 16,369.0     | 90.90      | 2.80                 | 12,481.0      | 3,037.9       | 389.3        | 0.57                | 0.53                | 0.21                | -28.4                  | -6.8                    |  |
| 16,463.0     | 88.60      | 1.90                 | 12,481.4      | 3,131.9       | 393.2        | 2.63                | -2.45               | -0.96               | -27.1                  | -11.5                   |  |
| 16,557.0     | 89.20      | 1.80                 | 12,483.2      | 3,225.8       | 396.2        | 0.65                | 0.64                | -0.11               | -24.4                  | -15.3                   |  |



Midland PVA

|           |                             |                              |                       |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company:  | EOG Resources - Midland     | Local Co-ordinate Reference: | Well #703H            |
| Project:  | Lea County, NM (NAD 83 NME) | TVD Reference:               | KB = 25' @ 3611.0usft |
| Site:     | Ares 4 State                | MD Reference:                | KB = 25' @ 3611.0usft |
| Well:     | #703H                       | North Reference:             | Grid                  |
| Wellbore: | OH                          | Survey Calculation Method:   | Minimum Curvature     |
| Design:   | OH                          | Database:                    | EDM 5000.14           |

| MD<br>(usft)                     | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | Build<br>(°/100usft) | Turn<br>(°/100usft) | High to Plan<br>(usft) | Right to Plan<br>(usft) |
|----------------------------------|------------|----------------------|---------------|---------------|---------------|---------------------|----------------------|---------------------|------------------------|-------------------------|
| 16,652.0                         | 92.40      | 2.00                 | 12,481.9      | 3,320.7       | 399.4         | 3.37                | 3.37                 | 0.21                | -24.7                  | -19.2                   |
| 16,746.0                         | 88.40      | 0.40                 | 12,481.2      | 3,414.7       | 401.3         | 4.58                | -4.26                | -1.70               | -24.5                  | -21.9                   |
| 16,841.0                         | 88.20      | 357.90               | 12,484.1      | 3,509.6       | 399.9         | 2.64                | -0.21                | -2.63               | -20.7                  | -21.3                   |
| 16,934.0                         | 96.00      | 358.40               | 12,480.7      | 3,602.4       | 396.9         | 8.40                | 8.39                 | 0.54                | -23.2                  | -19.1                   |
| 17,028.0                         | 94.40      | 357.10               | 12,472.1      | 3,696.0       | 393.2         | 2.19                | -1.70                | -1.38               | -30.8                  | -16.1                   |
| 17,123.0                         | 94.10      | 355.40               | 12,465.1      | 3,790.5       | 387.0         | 1.81                | -0.32                | -1.79               | -36.9                  | -10.7                   |
| 17,217.0                         | 93.20      | 357.10               | 12,459.1      | 3,884.1       | 380.9         | 2.04                | -0.96                | 1.81                | -42.0                  | -5.3                    |
| 17,311.0                         | 91.70      | 357.50               | 12,455.1      | 3,977.9       | 376.5         | 1.65                | -1.60                | 0.43                | -45.1                  | -1.7                    |
| 17,406.0                         | 90.50      | 358.90               | 12,453.3      | 4,072.8       | 373.5         | 1.94                | -1.26                | 1.47                | -46.0                  | 0.5                     |
| Last MWD Survey (MD = 17406.0)   |            |                      |               |               |               |                     |                      |                     |                        |                         |
| 17,506.0                         | 90.50      | 358.90               | 12,452.4      | 4,172.8       | 371.6         | 0.00                | 0.00                 | 0.00                | -45.8                  | 1.6                     |
| Projection to Bit (MD = 17506.0) |            |                      |               |               |               |                     |                      |                     |                        |                         |

| Design Annotations          |                             |                   |                |                                                                |
|-----------------------------|-----------------------------|-------------------|----------------|----------------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                                                        |
|                             |                             | +N/S<br>(usft)    | +E/W<br>(usft) |                                                                |
| 12,125.0                    | 12,042.9                    | -954.3            | 414.2          | KOP 12125.0' MD; 12042.9' TVD; -954.3'; 414.2'; 0.47           |
| 12,360.9                    | 12,261.1                    | -881.0            | 432.3          | FTP Crossing 12360.9' MD; 12261.1' TVD; -881.0'; 432.3'; 37.70 |
| 17,406.0                    | 12,453.3                    | 4,072.8           | 373.5          | Last MWD Survey (MD = 17406.0)                                 |
| 17,506.0                    | 12,452.4                    | 4,172.8           | 371.6          | Projection to Bit (MD = 17506.0)                               |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Lea County, NM (NAD 83 NME)

Ares 4 State #703H

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: #703H

Ground Level: 3588.0  
KB = 29' @ 3811.0usft  
Northing 452642.00 Easting 776589.00 32° 14' 31.591 N 103° 34' 20.755 W

#### SECTION DETAILS

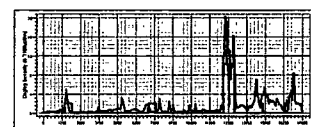
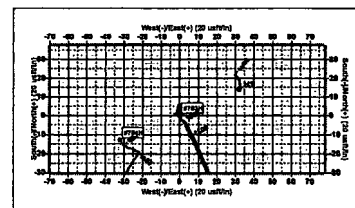
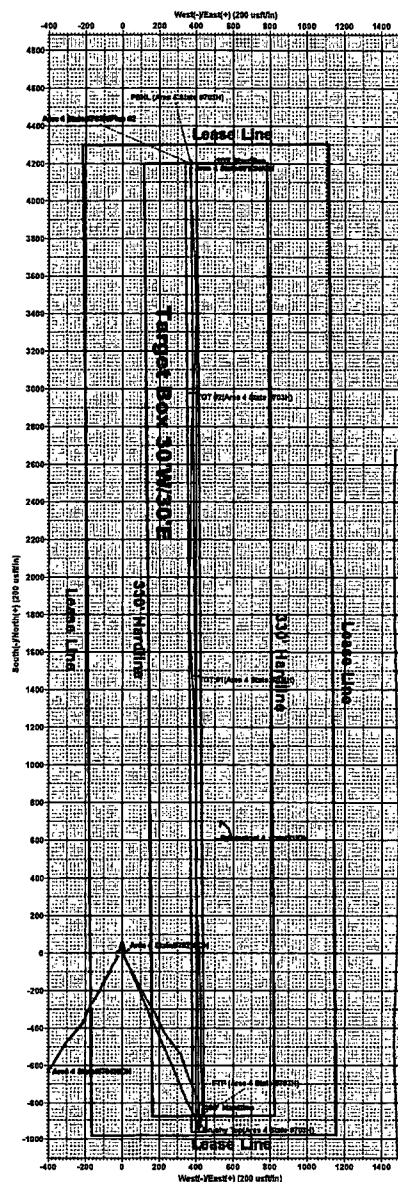
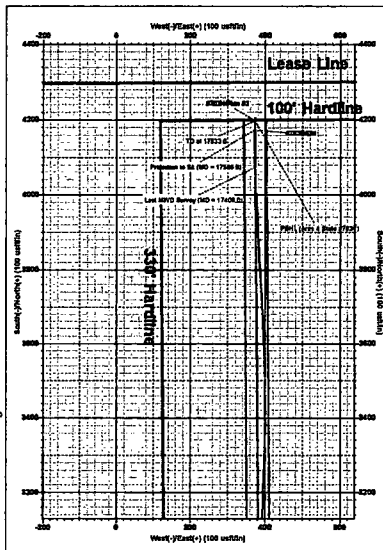
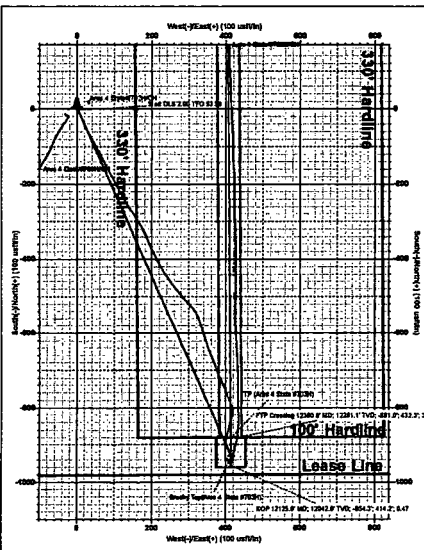
| Sec | MD      | Inc   | Adj    | TVD     | +N-S   | +E-W  | Qleg  | TFace  | VSec   | Target | Annotation                      |
|-----|---------|-------|--------|---------|--------|-------|-------|--------|--------|--------|---------------------------------|
| 1   | 1285.0  | 0.40  | 103.89 | 1285.0  | -3.1   | 1.9   | 0.00  | 0.00   | -2.9   |        |                                 |
| 2   | 1385.0  | 0.40  | 103.89 | 1385.0  | -3.2   | 2.3   | 0.00  | 0.00   | -3.0   |        |                                 |
| 3   | 1897.2  | 10.28 | 156.10 | 1894.4  | -44.7  | 22.2  | 2.00  | 63.99  | -42.8  |        |                                 |
| 4   | 7059.4  | 10.28 | 156.10 | 6973.6  | -888.9 | 398.4 | 0.00  | 0.00   | -890.3 |        |                                 |
| 5   | 7673.6  | 0.00  | 0.00   | 7485.0  | -811.0 | 415.0 | 2.00  | 180.00 | -880.6 |        |                                 |
| 6   | 12132.2 | 0.00  | 0.00   | 12043.6 | -811.0 | 415.0 | 0.00  | 0.00   | -810.6 |        | Brushy Top (Ares 4 State #703H) |
| 7   | 12053.0 | 90.09 | 359.53 | 12521.1 | -452.8 | 411.1 | 12.00 | 353.53 | -414.6 |        |                                 |
| 8   | 14806.6 | 90.09 | 359.53 | 12518.0 | 1470.8 | 395.3 | 0.00  | 0.00   | 1500.0 |        | TGT #1 (Ares 4 State #703H)     |
| 9   | 14817.3 | 90.30 | 359.53 | 12518.0 | 1481.5 | 395.2 | 2.00  | 0.00   | 1510.7 |        | TGT #2 (Ares 4 State #703H)     |
| 10  | 16313.7 | 90.30 | 359.53 | 12510.9 | 2977.8 | 353.0 | 0.00  | 0.00   | 3000.0 |        |                                 |
| 11  | 16326.7 | 90.67 | 359.53 | 12509.9 | 2990.8 | 352.9 | 2.00  | 0.00   | 3013.0 |        |                                 |
| 12  | 17633.0 | 90.67 | 359.53 | 12498.0 | 4197.0 | 373.0 | 0.00  | 0.00   | 4213.6 |        | PBHL (Ares 4 State #703H)       |

#### CASING DETAILS

No casing data is available

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

| Name                            | TVD     | +N-S   | +E-W  | Northing  | Easting   |
|---------------------------------|---------|--------|-------|-----------|-----------|
| Brushy Top (Ares 4 State #703H) | 7485.0  | -811.0 | 415.0 | 451711.00 | 777004.00 |
| TGT #1 (Ares 4 State #703H)     | 12518.0 | 1470.8 | 395.3 | 454112.80 | 776384.33 |
| TGT #2 (Ares 4 State #703H)     | 12510.0 | 2977.8 | 353.0 | 455618.80 | 776971.89 |
| PBHL (Ares 4 State #703H)       | 12498.0 | 4197.0 | 373.0 | 456038.00 | 776363.00 |
| FTP (Ares 4 State #703H)        | 12521.0 | -861.0 | 415.0 | 451761.00 | 777004.00 |



Lea County, NM (NAD 83 NME)  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level